











BLADES<sup>™</sup> & BAFFLES

CLOUDS & CANOPIES

DIRECT-TO-DECK PANELS

 $\textbf{METALWORKS}^{\text{\tiny{TM}}}$ 

WOODWORKS®

TRANSLUCENT MATERIALS

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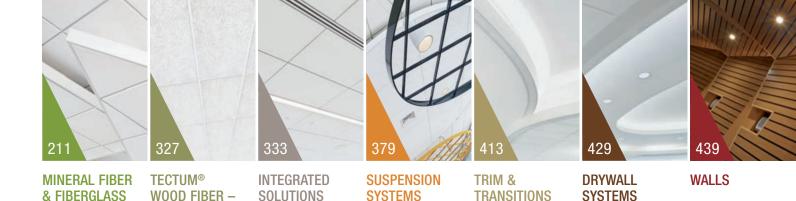
Transitions

Bulkheads & Soffits

**Light Coves** 

Flat & Curved Drywall Grid Interior Glass Partitions

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**SYSTEMS** 

## Suspension Systems

SOLUTIONS

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WOOD FIBER -

**CEMENTITIOUS** 

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**SYSTEMS** 

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We're here to help you with a broad and global portfolio of tested and true Integrated Ceiling and Wall System Solutions. Everything you need to create crisp finishes and seamless continuity for your ceiling and wall designs - from one end of your building to the other.



































From top left to bottom right:

Ultima® Health Zone™, Pgs. 321-324

Ultima® Health Zone™, Pgs. 321-324

WoodWorks® Torsion Spring™, Pg. 205

Ultima® Radial, Pgs. 297-298

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# Clean CFree of concern Challen + Simple (Ea

(Free of chemicals of concern per Living Building Challenge™ Red List)

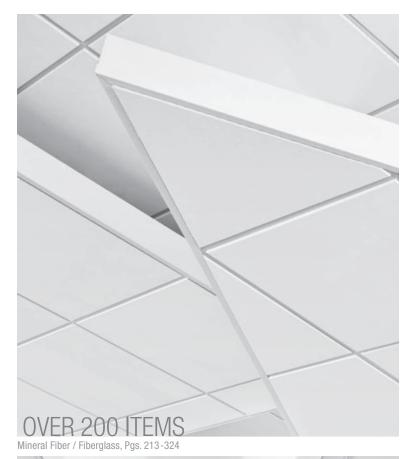
(Easy to find)

TM (Meet today's most stringent industry sustainability standards)



## SUSTAIN

High Performance Sustainable Ceiling Systems











The Sustain<sup>™</sup> portfolio includes select Mineral Fiber/ Fiberglass, MetalWorks<sup>™</sup>, Tectum<sup>®</sup>, Suspension System, Trim and Transition products.

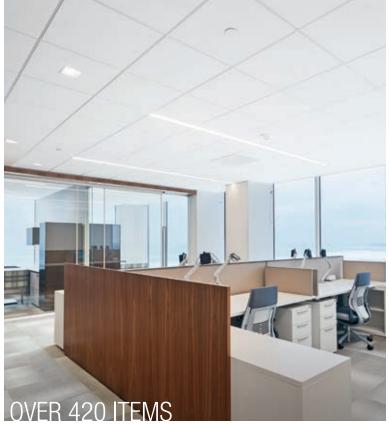
See page 467 for an overview or look for the Sustain™ icon on product-specific pages.



# NRC + CAC = Total Acoustics Performance®



TOTAL ACOUSTICS®



Mineral Fiber, Pgs. 213-324



MetalWorks™, Pgs. 111-162



WoodWorks®, Pgs. 163-205



The Total Acoustics® portfolio includes select Mineral Fiber, MetalWorks™, WoodWorks®, and Tectum® ceiling panels.

For an overview of Good, Better, Best choices, see page 471.























# IMAGES & PERFORATIONS

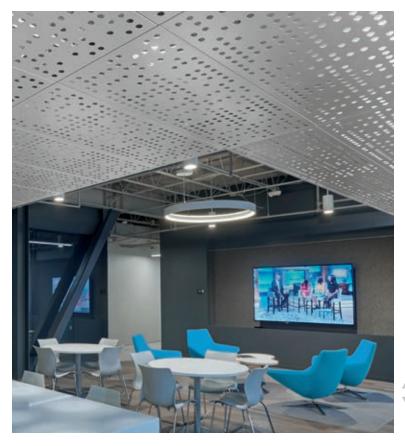








- MetalWorks<sup>TM</sup> Custom Louvered Panels
- ▲ MetalWorks<sup>™</sup> Torsion Spring, Pgs. 151-155
- ▼ WoodWorks® Grille Tegular, Pgs. 185-186



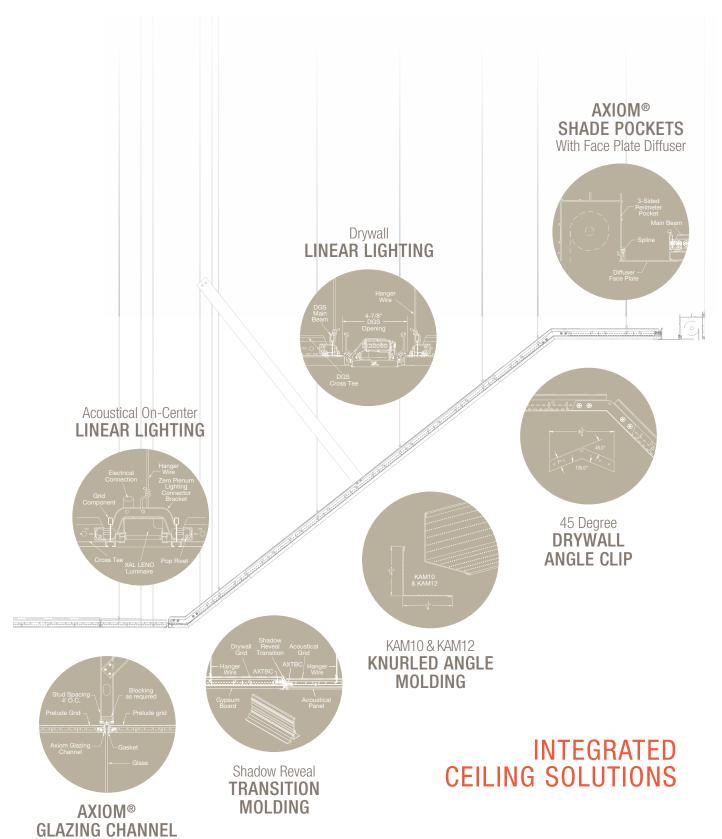




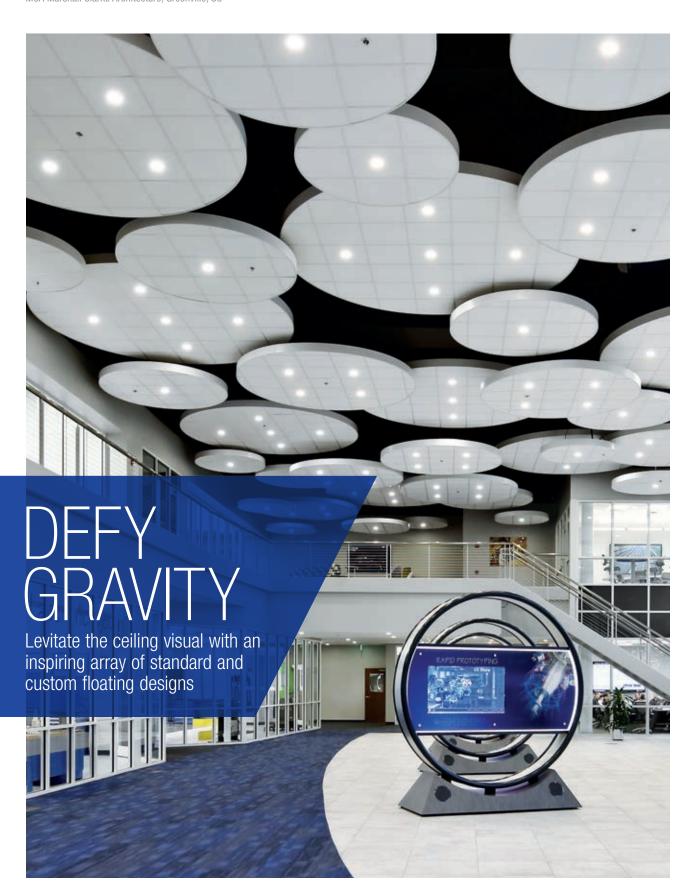
▲ WoodWorks® Grille, Pgs. 185-190 ▼ MetalWorks™ RH200, Pg. 160

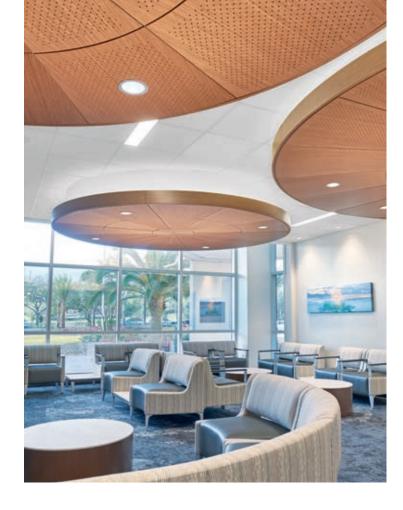






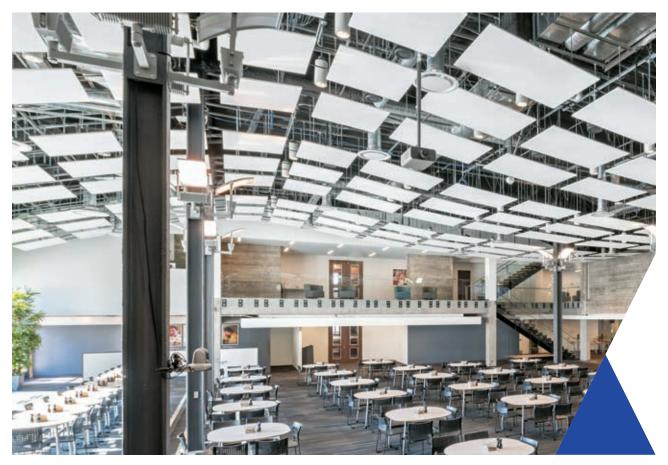
For Glass Partitions





- WoodWorks® Radial panels in Cherry and Optima® panels Florida Hospital Fish Memorial Chapel, Orange City, FL HunterBrady Architects, Orlando, FL
- ▲ Tectum® Shapes Salo Meeting Space, Minneapolis, MN Alliance, Minneapolis, MN
- SoundScapes® Shapes Acoustical Clouds Square panels Twitter Headquarters, San Francisco, CA
   IA Interior Architects, Chicago, IL





# DEFY GRAVITY

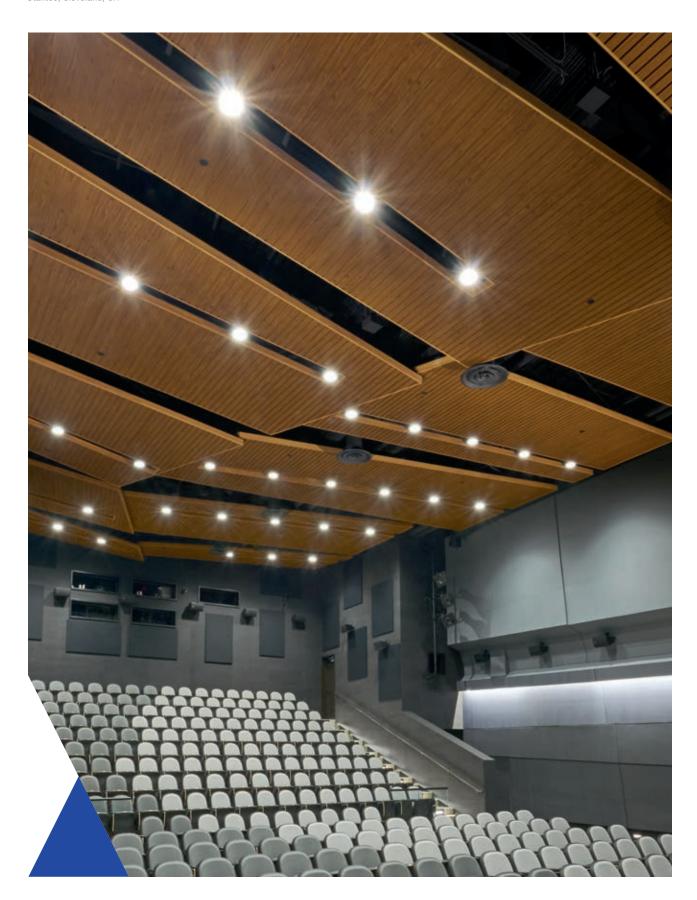
- ► Total Acoustics® Ultima® panels Albany Park Branch Library, Chicago, IL Jackson Harlan, LLC, Chicago, IL
- ▼ SoundScapes® Shapes Acoustical Clouds in Pale Lemon, Pecan, Plum, and Tangerine. MetalWorks™ Mesh™ Cascades in Natural Anodized with Suprafine® XL® suspension system Evelyn Meador Library, Seabrook, TX English + Associates Architects, Inc., Houston, TX



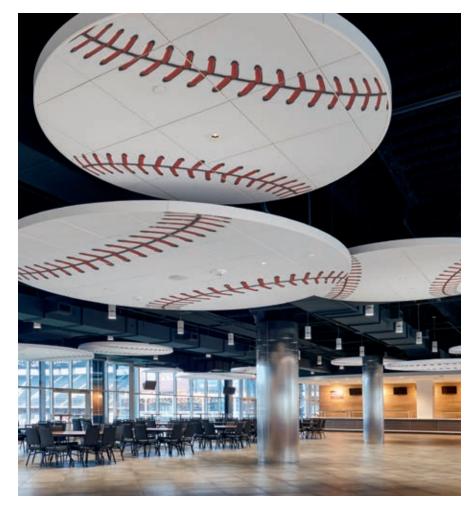


■ SoundScapes® Shapes Acoustical Clouds SPARK Holy Redeemer, Meadowbrook, PA MPM Studio, Pleasantville, NJ



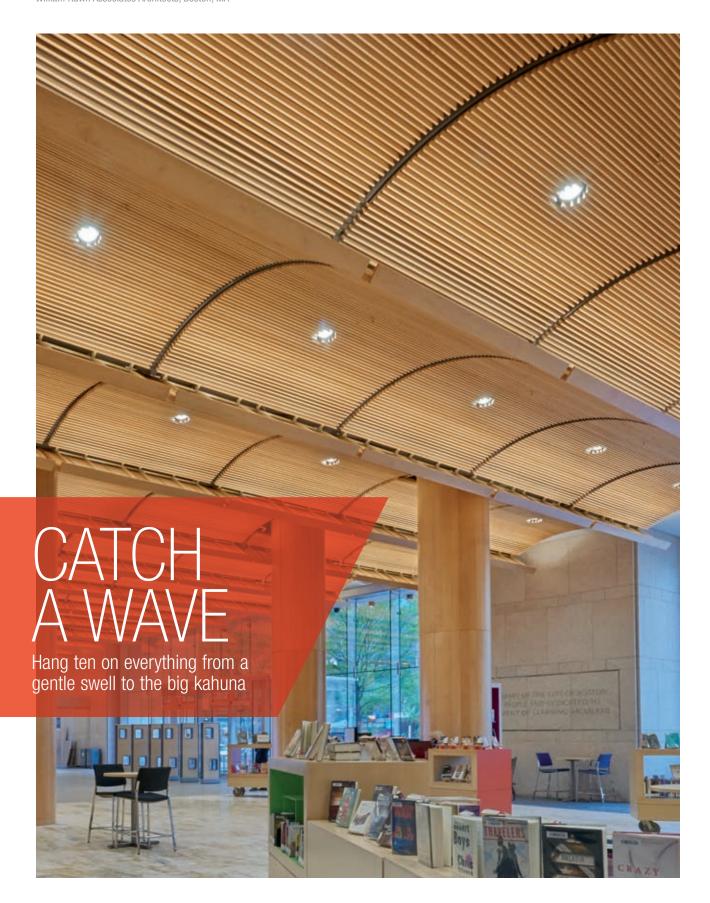


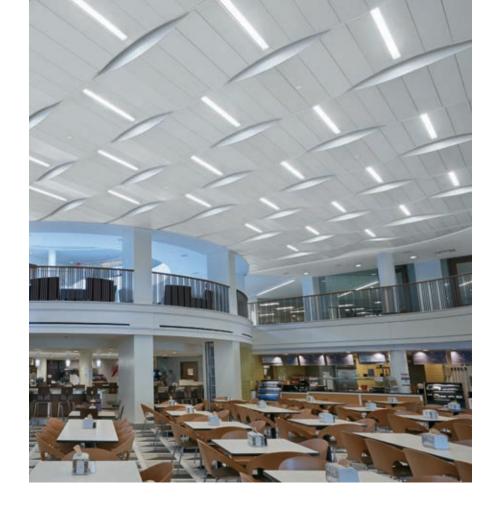




- ▲ Infusions® Accent Canopies in Saffron Energy and Sage Happiness Northern Kentucky University, Highland Heights, KY Omni Architects, Lexington, KY
- Optima® Create!™ Formations™ Clouds with Custom Image Texas Rangers Stadium, Arlington, TX Sterling Barnett Little, Inc., Arlington, TX

## DEFY GRAVITY



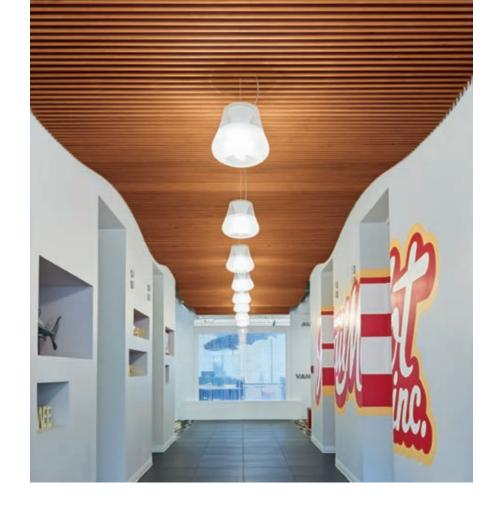


- MetalWorks™ RH215 faceted Miami University of Ohio, Armstrong Student Center, Oxford, OH BHDP Architecture, Columbus, OH and William Rawn Associates
- MetalWorks™ Torsion Spring in Whiltelume Alston & Bird LLP, Atlanta, GA Carson Guest Interior Design, Atlanta, GA



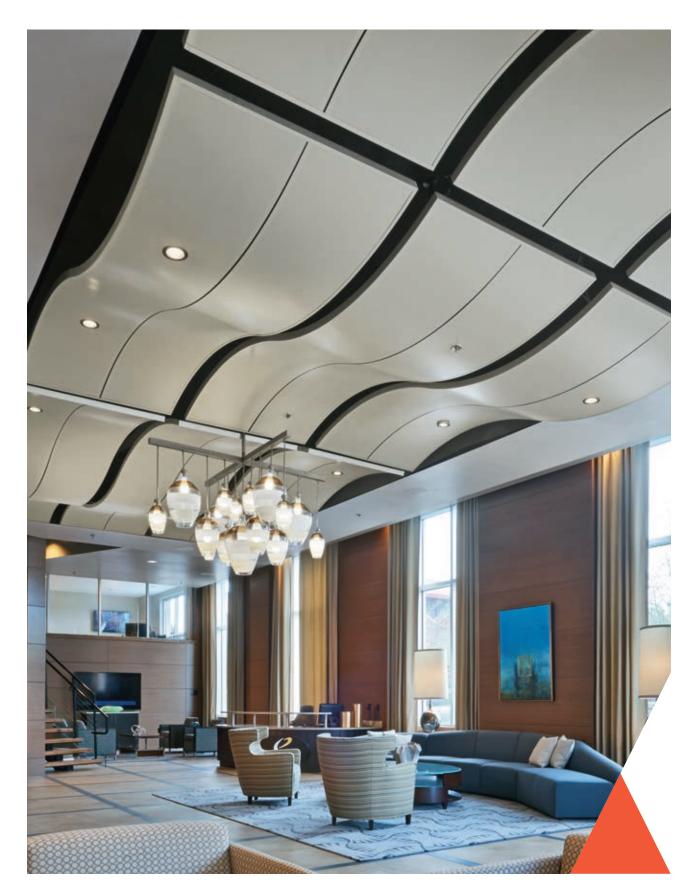
# CATCH A WAVE

- WoodWorks® Grille panels in Grille Dark Cherry Retail Me Not Office, Austin, TX STG Design, Austin, TX
- ▼ Serpentina® Classic Clouds with S500 perforation in Silver Satin M&I Bank, Tampa, FL Ai Collaborative, Inc., Tampa, FL

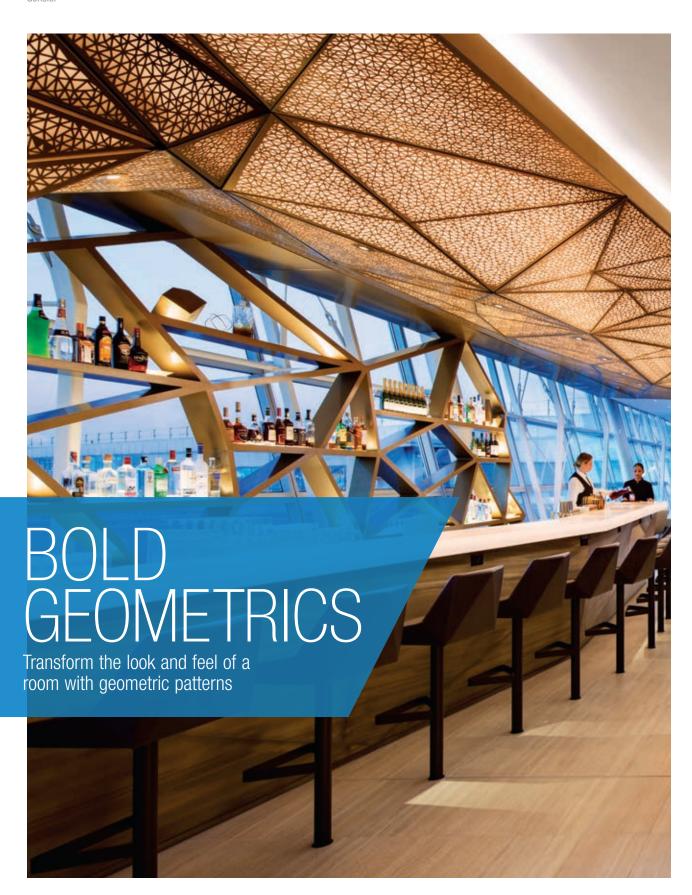


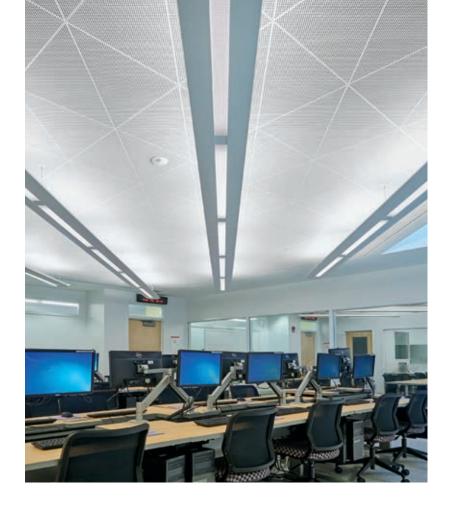


▼ Serpentina® Waves Clouds in Champaign Gold Midtown Apartments, Charleston, SC Haute Design, Charleston, SC



▼ Custom MetalWorks™ Torsion Spring Ceilings with Custom Infusions® Infill panels Etihad Airways Lounge at JFK International Airport, New York City, NY Gensler





- MetalWorks™ Torsion Spring panels
  Bioscience Education Center Montgomery College
  Germantown, MD
  The Lukmire Partnership, Arlington, VA
- ▲ Tectum® Lay-in panels Sea Star Restaurant, Seattle, WA
- ▼ MetalWorks™ 3D panels Arlington Lexus, Arlington Heights, IL Lew Neuman, Indianapolis, IL



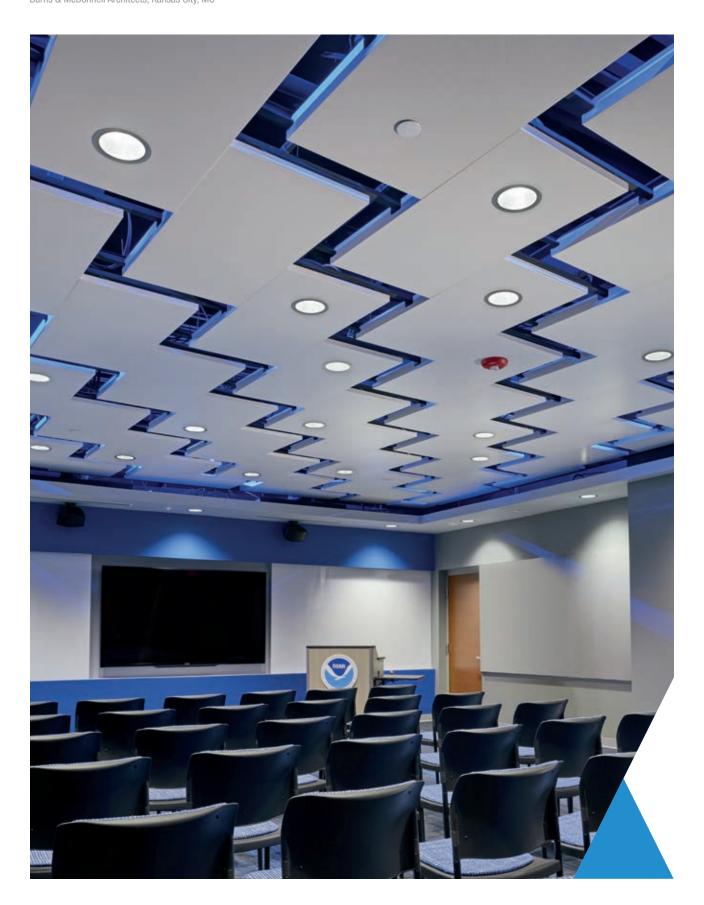


# BOLD GEOMETRICS

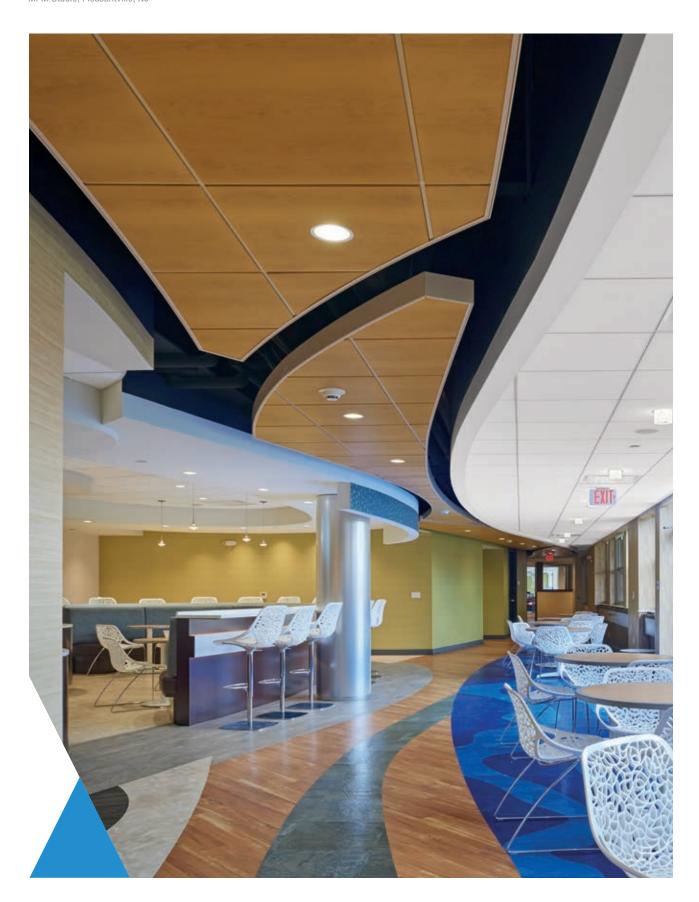


- ▶ MetalWorks™ Torsion Spring panels custom perforated in Silver Grey Kettle Moraine School District, Delafield, WI Eppstein Uhen Arch., Milwaukee/Madison, WI
- ▼ Formations™ Acoustical Accent Clouds with Ultima® panels GE Advanced Manufacturing, Spartanburg, SC MCA Marshall Clarke Architecture, Greenville, SC

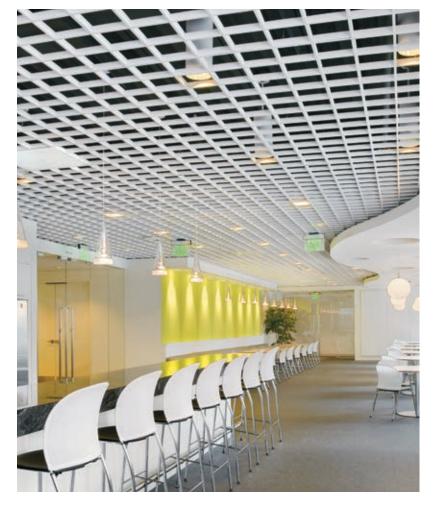




▼ MetalWorks™ Tegular panels in Effects™ Maple with Suprafine® 9/16" suspension system and Axiom Classic 6" trim in Pecan SPARK Holy Redeemer, Meadowbrook, PA MPM Studio, Pleasantville, NJ

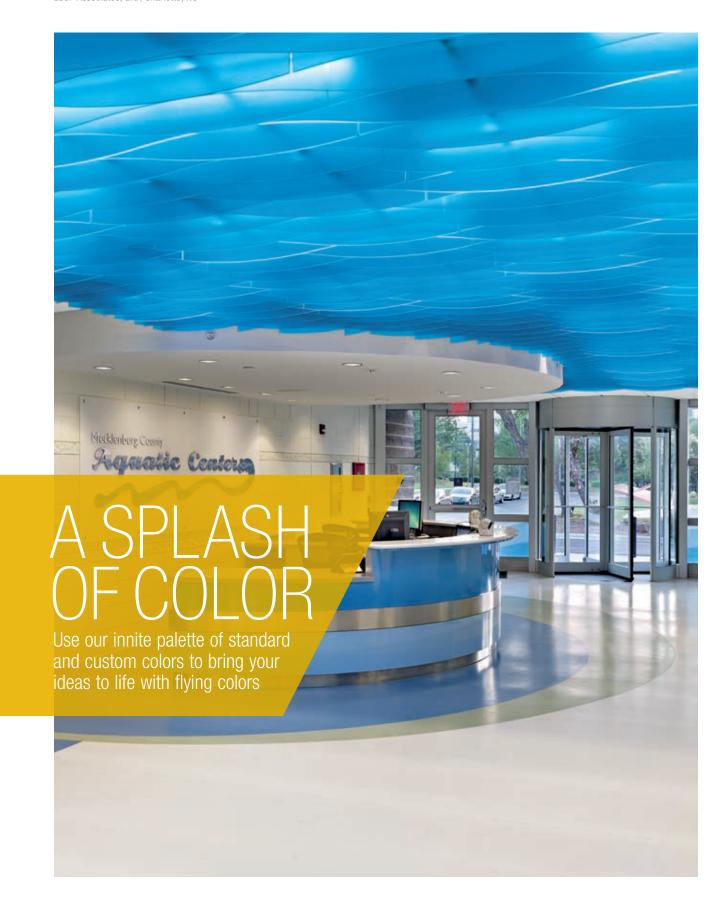






- ▲ SoundScapes® Shapes Trapazoid Acoustical Clouds University of North Texas Student Union, Denton, TX Perkins + Will, Atlanta, GA & Dallas, TX
- MetalWorks™ Open Cell Lay-in panels American Society of Clinical Oncology, Alexandria, VA Leo A Daly, Washington DC

## BOLD GEOMETRICS





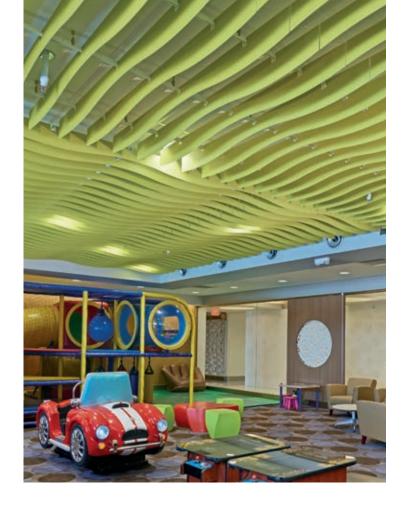
- Calla® Colorations® panels in custom colors St. Christopher's Hospital, Philadelphia, PA Ewing Cole, Philadelphia, PA
- ▲ Tectum® Shapes in custom colors Salo Meeting Space Minneapolis, MN Alliiance, Minneapolis, MN
- ▼ MetalWorks™ DH700 Custom Faceted Ceiling Microperforated in custom colors Lyman Elementary School, Lyman, SC McMillan Pazdan Smith, Spartanburg, SC





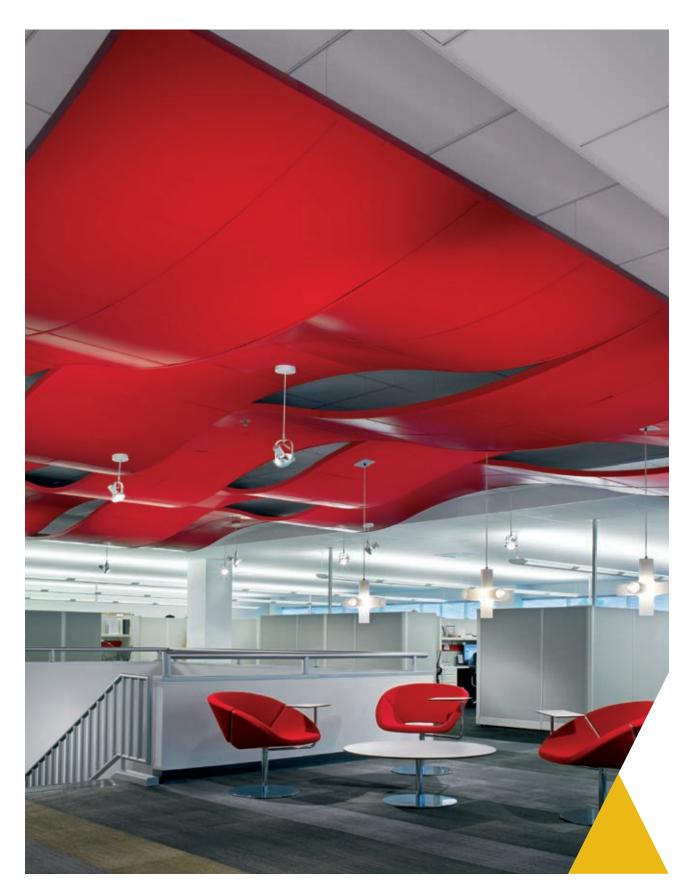
# A SPLASH OF COLOR

- ▶ Infusions® Blades Concepts™ panels Arlington Lexus, Arlington Heights, IL Lew Neuman, Indianapolis, ILI
- ▼ SoundScapes® Blades™ panels in custom colors Frankie's Fun Park, Raleigh, NC ADW Architects, P.A., Charlotte, NC

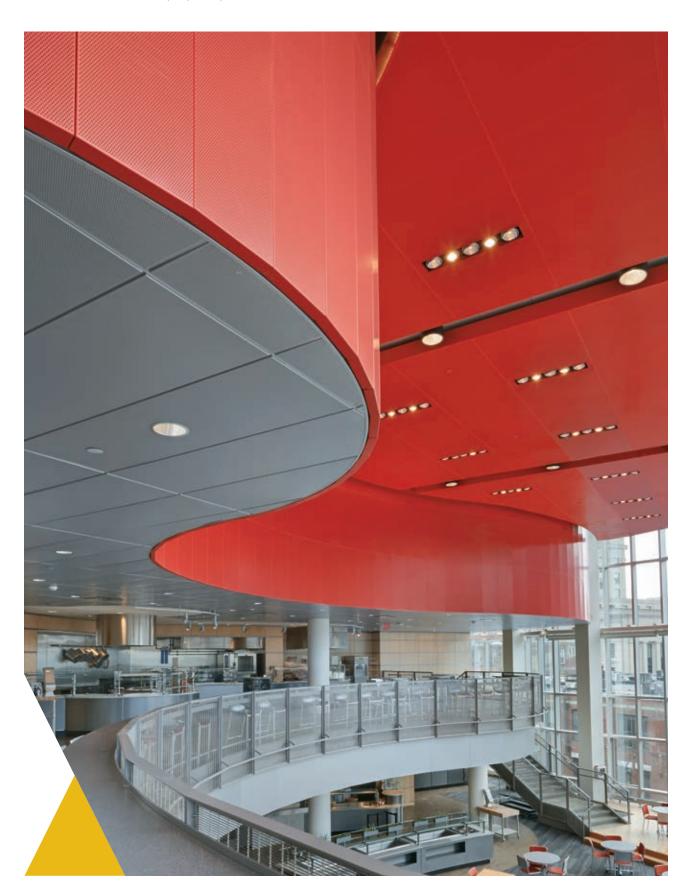




▼ Serpentina® Semi-Concealed in custom color CDW Corporation, Vernon Hills, IL Partners by Design, Inc., Chicago, IL



■ MetalWorks™ Torsion Spring panels in custom colors Berklee Music Student Center, Boston, MA William Rawn Associates Architects, Inc., Boston, MA





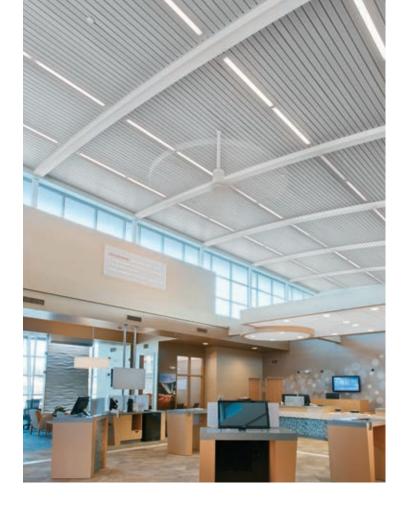




- MetalWorks™ RH215 Custom Plank in custom RAL 7024 finish Club Nokia at LA Live!, Los Angeles, CA GenslerX
- ▼ Tectum® Direct-Attach wall panels Lincoln Elementary School, Augusta, KS
- Infusions® Canopies in Blue Iris SPARK Holy Redeemer, Meadowbrook, PA MPM Studio, Pleasantville, NJ

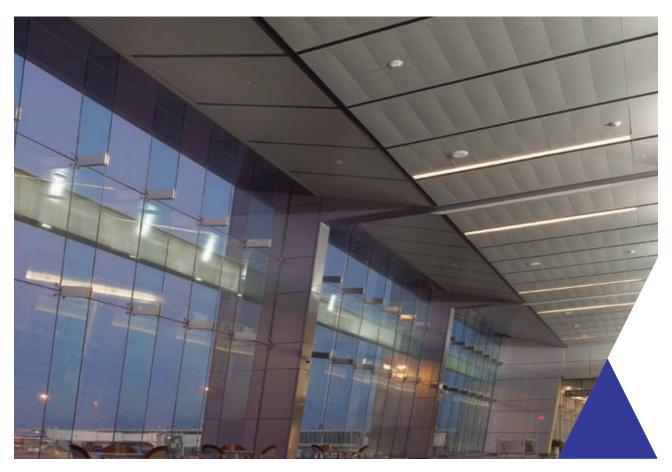
# A SPLASH OF COLOR





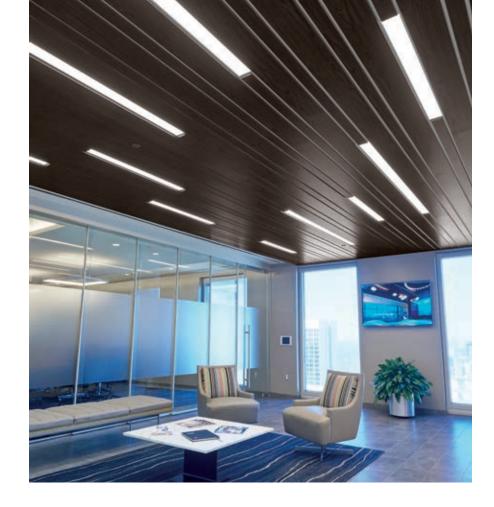
- MetalWorks™ Linear Faceted panels in Silver Gray Empower Credit Union, Allis, WI Haag Müller, Inc., Port Washington, WI
- ▲ Tectum® Direct-Attach panels After Hours Pediatric, Albuquerque, NM
- MetalWorks™ RH200 Custom Plank Tulsa International Airport, Tulsa, OK The Benham Group, Tulsa, OK

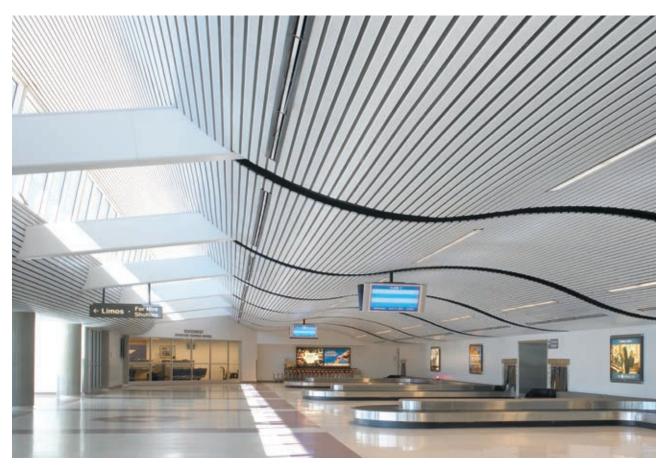




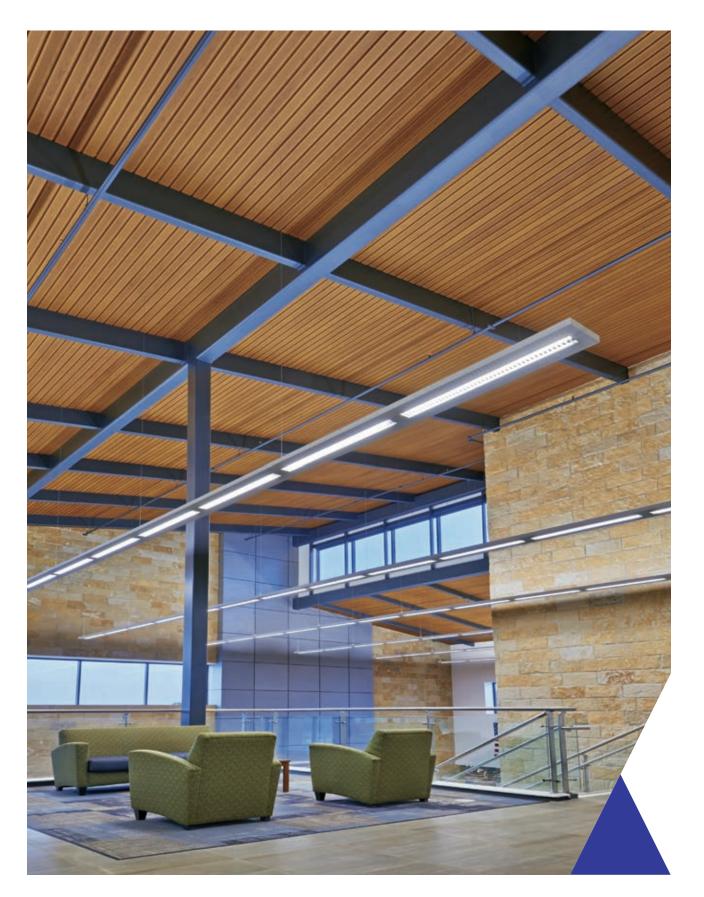
# STRAIGHT & NARROW

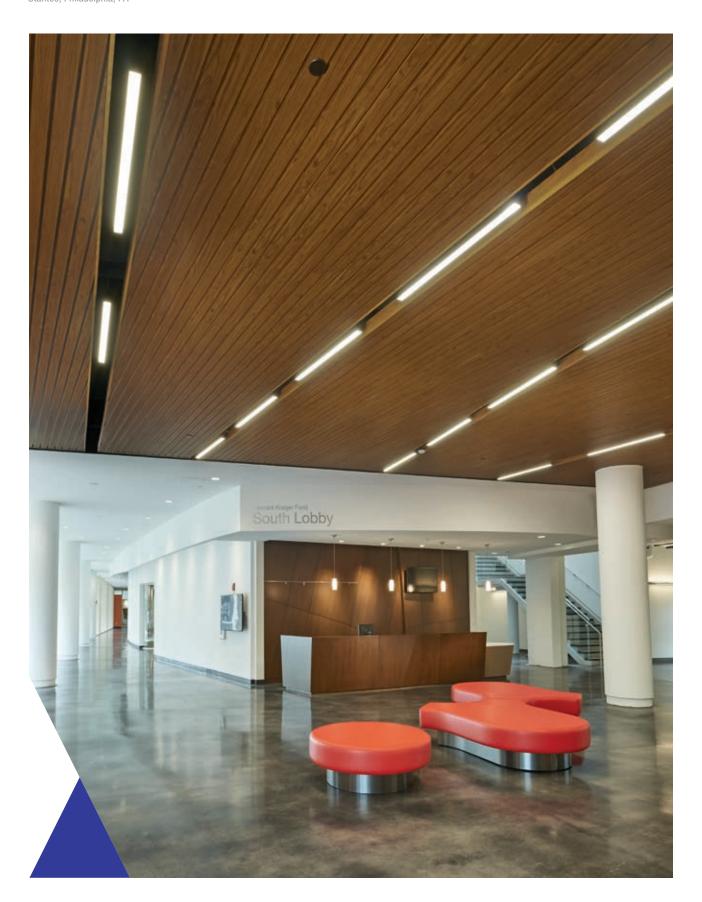
- ► MetalWorks<sup>™</sup> Linear Striated panels in Effects<sup>™</sup> Walnut Espresso with Silver Grey Reveal HNTB Office, Atlanta, GA HNTB, Atlanta GA
- MetalWorks<sup>™</sup> Linear Contrasts panels Perforated and Unperforated Dallas Love Field Airport, Dallas, TX CH2M Hill, Dallas, TX





■ MetalWorks<sup>TM</sup> Linear panels in Effects<sup>TM</sup> Light Cherry Weatherford College Wise County Campus, Decatur, TX VLK Architects, Houston, TX









- ▲ MetalWorks™ RH200 Custom Plank in Gun Metal Grey Seattle Justice Center, Seattle, WA NBBJ, Seattle, WA
- WoodWorks® Grille panels in Grille Walnut Fossil Headquarters, Richardson, TX Corgan, Dallas, TX

# STRAIGHT & NARROW

# PRODUCT PORTFOLIO AT-A-GLANCE

# METAL WOOD

## BAFFLES & BLADES<sup>11</sup>



METALWORKS™ Blades™ Pgs. 56-58



CANOPIES

armstrongceilings.com/metalworks



SERPENTINA® Waves Pgs. 91-94



METALWORKS™ Capz™ Pgs. 106-108





WOODWORKS® Canopies Pg. 100

Pgs. 93-94





 $\mathsf{FORMATIONS}^{\scriptscriptstyle\mathsf{TM}} \; \mathsf{Clouds}$ Pgs. 71-82



**FIBERGLASS** 



SOUNDSOAK® Baffles Pg. 65



SOUNDSCAPES® Blades™ Pgs. 59-64



SOUNDSCAPES® Shapes Pgs. 95-98



SOUNDSCAPES® Shapes Pgs. 95-98





TECTUM® Blades™ Pg. 66



TECTUM® Shapes Pg. 99



TECTUM® Direct-Attach Pgs. 107-110

TRANSLUCENT MATERIALS



INFUSIONS® Blades Pg. 55



INFUSIONS® Canopies Pg. 83



INFUSIONS® Shapes Pg. 84

# STANDARD 2' X 2' PANELS



METALWORKS™ Tegular Pgs. 121-124



VECTOR®/ CONCEALED

 $\mathsf{METALWORKS}^{\scriptscriptstyle\mathsf{TM}}\ \mathsf{Vector}^{\scriptscriptstyle\mathsf{(\!R\!)}}$ Pgs. 125-126



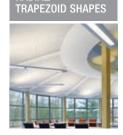
& CUSTOM SIZES

METALWORKS Custom Pgs. 159-162



METALWORKS Linear Pgs. 131-134

PLANKS



METALWORKS Radial Pg. 160



WOODWORKS® Tegular Pgs. 171-174



WOODWORKS® Concealed Pgs. 183-184



WOODWORKS Custom Pgs. 202-205



WOODWORKS Linear Pgs. 191-196



WOODWORKS Radial Pg. 203



CALLA® Pgs. 221-222



ULTIMA® Vector® Pgs. 319-320



ULTIMA® Create!™ Pgs. 245-247



**ULTIMA Plank** Pgs. 311-318



LYRA™ Tegular Pgs. 273-276



OPTIMA® Concealed Pgs. 293-294



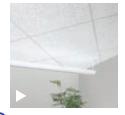
OPTIMA Non-Standard Size Pgs. 283-290



OPTIMA Plank Pgs. 283-290



OPTIMA Radial Pgs. 297-298



TECTUM® Lay-in Panels Pgs. 329-330

INFUSIONS® Panels

TechLine 877 276-7876

armstrongceilings.com/commercial

Pgs. 207-210



INFUSIONS Custom Panels Pgs. 207-210



TECTUM® Concealed Custom TECTUM® Planks Pgs. 331-332



COFFERS







METAPHORS® Coffers with Translucent, Metal, and Mineral Fiber Panels Pgs. 281-282

# PRODUCT PORTFOLIO AT-A-GLANCE







**CUSTOM WALLS** 



Custom Metal Walls Pg. 463



WOODWORKS® Standard Walls Pgs. 453-454



WOODWORKS® Custom Walls Pg. 464





SOUNDSOAK® Standard Walls Pg. 450



SOUNDSOAK® Custom Walls Pg. 451









TECTUM® Fabric Walls Pg. 448

**CEMENTITIOUS** WOOD FIBER -**FECTUM®** 





TECTUM® Panel® Art Pg. 449

TRANSLUCENT MATERIALS



INFUSIONS™ Walls Pg. 460



# PRODUCT PORTFOLIO AT-A-GLANCE



TECHZONE® Ceiling Systems Pgs. 337-344

Data Centers

Pgs. 347-348

DC FLEXZONE™

Pgs. 345-346



TECHZONE® Linear Lighting Pg. 344





Lighting



Pg. 349



Drywall Linear Lighting Pg. 350

## LIGHTING - COVE



Light Coves with AXIOM® Trim — Direct Pg. 355



Light Coves with AXIOM® Trim – Indirect Pg. 356

# LIGHTING – DOWNLIGHTS



Intersection Downlighting Pgs. 353-354





Shade Pockets - AXIOM® Building Perimeter Systems Pgs. 357-362



Shade Pockets – AXIOM® Building Perimeter Systems (Lutron<sub>®</sub>-compatible) Pgs. 363-364

## **COMMON BUILDING CONDITIONS**



Windows & Shade Pockets Pg. 366



Bulkheads & Soffits Pg. 370



Flat & Curved Drywall Pg. 373



Corridors Pg. 375-376



Transitions Pgs. 367-369



Light Coves & Pockets Pgs. 371-372



Interior Glass Partitions Pg. 374

# CEILING SYSTEMS SELECTOR - SPECIALTY CEILING SYSTEMS

	Look for this icon indicating new products or new additions to product families. Visit our website for details.						P	ANEL	_ SIZ	'E						S	PENS /STEI FACE	M		ED	GE P	ROF	ILE		
	Product information listed in this chart pertains to general product families and may not apply to each individual product item. Before specifying or purchasing products, consult product details at www.armstrongcellings.com.  Page No.	12" x 12"	12" x 24"	12" x 48"	12" x 60"	12" x 72"	20" x 60"	24" x 24"	24" x 48"	24" x 60"	24" x 72"	24" x 96"	30" x 30"	48" x 48"	Other Sizes/Shapes	Concealed/Vector	9/16"	15/16"	Square Lay-in	Square Tegular	Angled Tegular	Beveled Tegular	Vector®	Other Edge Profiles	
	INFUSIONS® Blades – Concepts™ 5	5													•										
AL TS	METALWORKS™ Blades – Concepts™/Classics™ 🚱 56-5	3													•										
∜TIC, MEN	SOUNDSCAPES® Blades™ 59-6	4													•										
VERTICAL ELEMENTS	SOUNDSOAK® Baffles 6	5							•						•										
	TECTUM® Blades™ & Baffles 🔞 6	6													•				•					•	
	FORMATIONS™ 71-8	2						•	•		•	•			•	•	•	•	•	•		•	•		
SC	INFUSIONS® Canopies 8	3								•	•				•										
JN0:	INFUSIONS® Shapes 8	4												•	•										
10 %	SERPENTINA® Classic/Waves/Vault 85-9	2						•	•		•	•			•										
CANOPIES & CLOUDS	SOUNDSCAPES® Canopies 93-9	4													•									•	
NOP	SOUNDSCAPES® Shapes 95-9	3												•	•									•	
CA	TECTUM® Clouds 🚱 9	9													•				•					•	
	WOODWORKS® Canopies 10	)													•										
	CAPZ™ 104-10	6							•	•	•	•		•	•			•	•					•	
DIRECT- TO-DECK	TECTUM® Direct-Attach 🚳 107-10	3								•		•			•				•	•					
O-D	TECTUM® Finale 🚳 10	9													•										
	TECTUM® Panel Art 😥 11	)													•				•						
	METALWORKS™ Tegular 121-12	4						•									•	•		•				•	
	METALWORKS™ Vector® 125-12	6						•										•					•		
	METALWORKS™ Clip-on 127-12	3						•	•						•			•						•	
	METALWORKS™ Concealed 129-13	)										•		•	•			•						•	
10	METALWORKS™ Linear 🚱 131-13	4													•									•	
RKS	METALWORKS™ Mesh™ 🚱 135-13	3						•										•						•	
ETALWORKS	METALWORKS™ Open Cell 139-14	)						•							•		•		•						
NETA	METALWORKS™ Plank 141-14	2													•									•	
Σ	METALWORKS™ SecureLock™ 143-14	4						•										•							
	METALWORKS™ Snap-in 145-14	3		•				•	•				•					•							
	METALWORKS™ 3D 147-14	3						•									•			•					
	METALWORKS™ Tin 149-15	)						•	•								•	•	•	•				•	
	METALWORKS™ Torsion Spring 151-15	5						•	•		•	•	•		•			•						•	
	WOODWORKS® Tegular 171-17	4		•		•		•	•		•		•		•		•			•					
s	WOODWORKS® Vector® 175-17	6		•				•	•									•					•		
WOODWOORKS	WOODWORKS® Channeled 177-18	2		•				•	•				•		•		•	•					•	•	
OMO	WOODWORKS® Concealed 183-18	4							•		•	•			•	•		•						•	
100	WOODWORKS® Grille 185-19	)						•	•						•		•	•		•					
	WOODWORKS® Linear 191-19	3													•			•						•	
	WOODWORKS® Open Cell 197-19	3						•	•						•			•					•		



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Fine	Medium	Coarse	Smooth	Panels	Planks	Cloud/Canopy	White	Tech Black	Other Colors/Finishes	Mineral Fiber	Fiberglass	Wood Fiber – Cementitous	Metal	Wood	BioAcoustic"	Translucent	High Acoustical	Fire Performance	High Light Reflectance	BioBlock/Inherent	Sag Resistance	Certified Low VOC	EPD Available	Soil Resistance	Scrubbability	Washability	Water-Repellent	Scratch Resistance	Impact Resistance	Exterior	Recycle Program	High Recycled Content	Ceiling-2-Ceiling <sup>™</sup>	10-Year Availability	
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#### Acoustical Performance

High Acoustical Performance

Fire Performance

Fire Guard™ L - Local Fire Resistive

Light Reflectance



## HumiGuard® Humidity Resistance

Sag Resistance

S - Standard 4 drops / HumiGuard Max 3 drops / HumiGuard Plus

#### Anti-Microbial Protection

BioBlock® inhibits or retards growth of mold and mildew

## Durability

- Soil Resistance
   Scrubbability
- Washability
- Scratch Resistance
   Impact Resistance

#### Recycling







# CEILING SYSTEMS SELECTOR - CEILING PANELS

TECTUM® Concealed & 331-332  TECTUM® Concealed & • • • • •		Look for this icon indicating new products or new additions to product families. Visit our website for details.						P	ANE	L SI	IZE						SY	PENS 'STEN FACE		Е	DGE	PR0	FILE		Т	EXT	URE		
ANALTIEF*   218		product families and may not apply to each individual product item. Before specifying or purchasing products, consult product details at www.armstrongceilings.com.		12" x 12"	12" x 24"	12" x 48"	12" × 60"	12" × 72" 20" × 60"	24" x 24"	24" x 48"	24" x 60"	24" x 72"	24" x 96"	30" x 30"	48" x 48"	Other Sizes/Shapes	Concealed/Vector	9/16"	15/16"	Square Lay-ın	Square regular Angled Tequilar	Beveled Tegular	Vector®	Other Edge Profiles	Fine	Medium	Coarse	Smooth	
CANYONE		ARMATUFF®	218													•			•	•							•		
ERMANGURED PICENS AGAINANGURED FINE FISSURED™ 225-228    CRUSS PORTINS FORTINS 227-232		CALLA™ 2	21-222						•	•						•		•	•	•	•							•	
ERMANGURED PICENS AGAINANGURED FINE FISSURED™ 225-228    CRUSS PORTINS FORTINS 227-232		CANYON® €	23-224						•	•										•		•						•	
CRRUS Profiles			25-226						•	•									•	•						•			
CPRINGE Second Look®   245-288		CIRRUS®/CIRRUS® High NRC 2	27-232						•	•						•		•	•	•	•	•				•			
CIPRUSP Themse"   237-228		CIRRUS Profiles 2	233-234						•									•	•			•		•		•			
Clean Room" FLVL/LNL   239 240		CIRRUS® Second Look® 2	235-236							•								•	•			•				•			
### CORTECA® (CORTECA® Second Look® 243-244		CIRRUS® Themes™ 2	237-238						•									•	•			•				•			
CREATEI"   245-247		Clean Room™ FL/VL/VL 2	39-240						•	•						•			•	•								•	
DESIGNER"   248		CORTEGA®/CORTEGA® Second Look® 2	243-244					•	•	•	•					•		•	•	•		•				•			
DUNE"/DUNE" Second Look®   249-252	-	CREATE!™ 2	245-247						•									•	•	•		•	•		•				
FINE FISSURED" Flow Flow NRC 254-260		DESIGNER™	248						•	•									•	•							•		
FINE FISSURED" Second Look®   261   262   263   264   265		DUNE™/DUNE™ Second Look® 2	249-252					•	•	•				•		•		•	•	•		•			•				
FISSURED"   262		FINE FISSURED™/FINE FISSURED™ High NRC 2	254-260	•				•	•	•	•					•	•	•	•	•		•				•			
OPTIMA® Concealed		FINE FISSURED™ Second Look®	261							•								•	•							•			
OPTIMA® Concealed	SS	FISSURED™	262						•	•						•			•	•						•			
OPTIMA® Concealed	J.F.	GEORGIAN™/GEORGIAN™ High Washability 2	263-264						•	•						•		•	•	•		•				•			
OPTIMA® Concealed	EE (	GRAPHIS® Finetex™/Rustex™ 2	265-266						•									•	•			•		•	•		•		
OPTIMA® Concealed	쁀	KITCHEN ZONE™ 2	267-268						•	•									•	•								•	
OPTIMA® Concealed	& &	LEDGES® 2	269-270						•									•	•					•				•	
OPTIMA® Concealed	뿔	LYRA® PB/LYRA® PB High CAC 2	271-276			•			•	•	•	•	•	•	•	•		•	•	•	•							•	
OPTIMA® Concealed	<u>"</u>	LYRA® Concealed 🚱 2	277-278							•		•	•	•	•	•			•					•				•	
OPTIMA® Concealed	ER/	MESA™/MESA™ Second Look® 2	279-280						•	•						•		•	•	•	•	•			•				
OPTIMA® Concealed	N N	METAPHORS® Coffers 2	281-282						•									•	•	•	•	•							
OPTIMA® Vector®   291-292		OPTIMA®/OPTIMA® PB 2	283-290					•	•	•	•	•	•	•	•	•		•	•	•	•				•				
OPTIMA® Health Zone™   295-296		OPTIMA® Concealed 🚱 2	93-294							•		•	•	•	•	•			•	Т				•	•				
PAINTED NUBBY™ 299-300 PEBBLE™ 301-302 RANDOM FISSURED™ 303 SHASTA® 304 School Zone® FINE FISSURED™ 305-306 School Zone® GEORGIAN™ 305-306 TINCRAFT™ 307-308 TUNDRA® 309-310 ULTIMA® High NRC 311-318 ULTIMA® Vector® 319-320 ULTIMA® Vector® 319-320 ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC 321-324 TECTUM® TEQUIA® 1324 TECTUM® TEQUIAR® 329-330 TECTUM® TEQUIAR® 328 TECTUM® TEQUIAR® 331-332 TECTUM® TEQUIAR® 328 TECTUM® TEQUIAR® 328 TECTUM® TEQUIAR® 328 TECTUM® TEQUIAR® 331-332 TECTUM® TEQUIAR® 331-332		OPTIMA® Vector® 2	91-292		•				•	•		•	•	•	•	•	•		•				•		•				
PEBBLE™   301-302		OPTIMA® Health Zone™ 2	95-296						•	•						•		•	•	•	•				•				
RANDOM FISSURED™ 303		PAINTED NUBBY™ 2	99-300						•	•						•		•	•	•	•					•			
SHASTA® 304		PEBBLE™ 3	301-302						•	•	•					•			•	•						•			
School Zone® FINE FISSURED™ 305-306		RANDOM FISSURED™	303						•	•						•			•	•						•			
School Zone® GEORGIAN™       305-306       • • • • • • • • • • • • • • • • • • •		SHASTA®	304						•	•						•			•	•						•			
TINCRAFT™ 307-308 TUNDRA® 309-310 ULTIMA®/ULTIMA® High NRC 311-318 ULTIMA® Vector® 319-320 ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC 321-324 ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC 321-324 TECTUM® 150 150 150 150 150 150 150 150 150 150		School Zone® FINE FISSURED™ 3	305-306						•	•								•	•	•	•	•				•			
TUNDRA® 309-310 ULTIMA®/ULTIMA® High NRC 311-318 ULTIMA® Vector® 319-320 ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC 321-324 ULTIMA® TECTUM® Lay-in  TECTUM® 129-in  TECTUM® 129-in  TECTUM® 129-in  TECTUM® 129-in  TECTUM® 129-in  TECTUM® 329-330 TECTUM® 129-in  T		School Zone® GEORGIAN™ 3	305-306						•	•									•	•						•			
ULTIMA®/ULTIMA® High NRC       311-318       • • • • • • • • • • • • • • • • • • •		TINCRAFT™ 3	307-308						•									•	•					•				•	
ULTIMA® Vector®       319-320       • <td></td> <td>TUNDRA® 3</td> <td>809-310</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td>		TUNDRA® 3	809-310						•	•						•		•	•	•		•				•			
ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC 321-324       • • • • • • • • • • • • • • • • • • •		ULTIMA®/ULTIMA® High NRC 3	311-318		•	•	•	•	•	•	•	•		•		•		•	•	•		•			•				
TECTUM®   Lay-in		ULTIMA® Vector® 3	19-320		•				•							•	•		•				•		•				
TECTUM® Tegular ® 331-332		ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC 3	321-324						•	•								•	•	•		•			•				
TECTUM® Concealed ® 328 • • • • •		TECTUM® Lay-in 🚳 3	329-330						•											•							•		
TECTUM® Concealed 🚱 328 • • • • • • • • • • • • • • • • • • •		TECTUM® Tegular 🚳 3	31-332						•												•						•		
ANSLUCENT   INFUSIONS® Translucent Panels 207-210 • • • • • • • • • • • • • • • • • • •		TECTUM® Concealed 🚱	328													•	•			•							•		
	ANSLUCENT	INFUSIONS® Translucent Panels	207-210			•			•	•		•						•	•	•					•				

Armstrong 30-Year System Performance Guarantee – find product warranties at armstrongceilings.com/warranty



Armstrong HumiGuard® ceiling systems will resist visible sag
 Armstrong BioBlock® ceiling systems will

 Armstrong BioBlock® ceiling systems will resist the growth of mold and mildew This guarantee also applies to Armstrong ceiling products that are formulated to inherently resist the growth of microorganisms: Ceramaguard, Optima, Painted Nubby, and Vinyl-faced Fiberglass ceiling products.

(Applies when Armstrong® Commercial suspension systems and Armstrong Commercial ceiling products are installed and used together.)

Armstrong products are sold subject to limited warranties; general warranty information is available at armstrongceilings.com/warranty. Full copies of the applicable warranty are available by calling 1 877 276-7876.



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Panels	Planks	Cloud/Canopy	White	Tech Black	Other Colors/Finishes	Mineral Fiber	Fiberglass	Wood Fiber – Cementitous	Metal	Wood	BioAcoustic"	Translucent	High Acoustical	Fire Performance	High Light Reflectance	BioBlock/Inherent	Sag Resistance	Certified Low VOC	EPD Available	Soil Resistance	Scrubbability	Washability	Water-Repellent	Scratch Resistance	Impact Resistance	Healthcare	Open Plan Office	Clean Room	Exterior	Food Preparation	Gymnasium	Laboratory	Shower or Locker Areas Recycle Program	High Becycled Content	MI	Celling-2-Celling	10-Year Availability	Installed Cost	
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Acoustical Performance

Fire Guard™ L - Local Fire Resistive

High Acoustical Performance

Fire Performance

Light Reflectance High Light Reflectance

HumiGuard® Humidity Resistance



S - Standard 4 drops / HumiGuard Max 3 drops / HumiGuard Plus

#### Anti-Microbial Protection

BioBlock® inhibits or retards growth of mold and mildew

## Durability

- Soil Resistance
   Scrubbability
- Washability
- Scratch Resistance
   Impact Resistance

#### Recycling

Part of Armstrong Recycling Program

**Relative Installed Cost** 5 \$'s/highest pricing 1 \$/lowest pricing





# You Can Use Blades<sup>™</sup> and Baffles to Enhance Design and Acoustical Performance

Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

## Sabin

The preferred metric for measuring acoustics for "space absorbers" like Blades™ and baffles.

Acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC while "space absorbers" are directly measured.

Acoustical Blades $^{\text{m}}$  and baffles can provide greater sound absorption than a continuous ceiling of the same surface area, because the sound is absorbed from both the front and back surfaces.



Example:	Exposed Structure	Blades <sup>™</sup> Installation	Continuous Ceiling
5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet	No Treatment (0% Coverage)	SoundScapes® Shapes (50% coverage)	Continuous Optima® Ceiling (100% Coverage)
Ceiling	Exposed Structure	156 Shapes: 46" x 46" Squares	Suspended 60" Below Deck
Sabin/SF	0	1.38	0.90
Reverberation Time	3.4 sec	1.0 sec	0.5 sec
RT Improvement	ref	72%	86%
SPL Reduction	ref	-4.0 dB	-6.0 dB

For definitions of acoustical terms, see pages 473-474 in this catalog.







helping to bring your one-of-a-kind ideas to life

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

> Sabin measures are noted under physical data for each product.



INFUSIONS® Blades™ - Concepts™ Pg. 55



METALWORKS™ Blades™ - Concepts Pg. 56

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METALWORKS™ Blades™ Pgs. 57-58











Pg. 66



Fire Performance



Class A

**ICON KEY** 

**Acoustics** 

Seismic Category D, E & F

Light reflectance of 0.83 or greater.









Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. water and outdoor applications.

#### **High Durability** Washability



Offers superior wash resistance without compromising panel finish integrity.

# Scrubbability



Withstands up to 150 scrub cycles using a scrubbability tester as per modified ASTM D2486

#### Impact Resistance



Excellent resistance to surface impact

#### Scratch Resistance



Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.

## Soil Resistance



Excellent resistance to dirt and/or grease for lasting value and performance.

## **Color Availability**



Available in color.

#### Sustainability



Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.



Product is recyclable through the Armstrong Recycling Program.

For information about MetalWorks™ Blades<sup>™</sup> panels, SoundScapes<sup>®</sup> Blades<sup>™</sup> panels, and custom Soundsoak® Baffles, contact TechLine at 1 877 276-7876



SOUNDSCAPES® Blades™















SOUNDSOAK® Baffles





TECTUM® Blades™ & Baffles











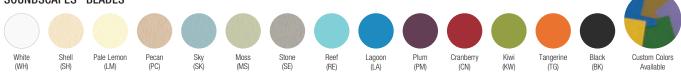
# Blades<sup>™</sup> & Baffles At-a-Glance

## METALWORKS™ BLADES - CLASSICS™

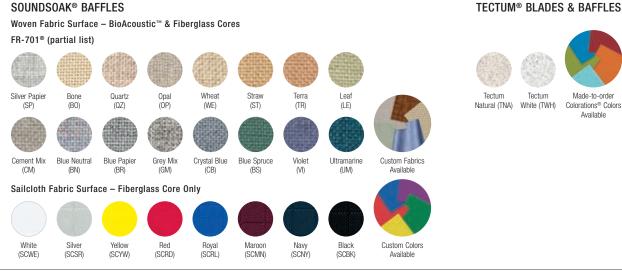
## METALWORKS™ BLADES - CONCEPTS™

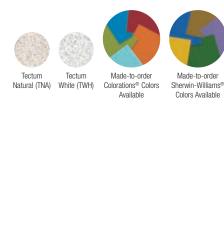


## SOUNDSCAPES® BLADES™



To see coordinating Ultima® & Optima® Create!™ panel colors and RAL® colors, visit armstrong.com/createcolors. Custom colors are available with a Sherwin-Williams®. 4-digit color code from the Duration® or Harmony® flat interior paint families (Code SW \_ \_ \_ \_)





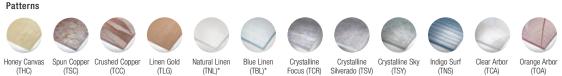
#### INFUSIONS® BLADES - CONCEPTS™



## (TSS) SoundScapes® Coordinating Colors



(TSE)



<sup>\*</sup> Color may vary panel to panel TechLine 877 276-7876

armstrongceilings.com/commercial



# INFUSIONS® Blades - Concepts™

**Dimensions** 

(Inches)

Custom S Available

6 x 48 x 1/4"

6 x 72 x 1/4"

6 x 96 x 1/4"

1

E<sub>R72.500</sub>

E<sub>R72.500</sub>

L R72.500

◆ When specifying or ordering, include the appropriate 3-letter color suffix. (Example: 7086 <u>T</u> <u>S</u> <u>H</u>) † Thickness of panels varies by pattern from 0.245" to 0.298".

Nominal H x L<sup>†</sup>

Linear Panels smooth texture

PANEL SELECTION

Item

No. ◆

INFUSIONS® Blades - Concepts™

7087\_ \_ \_

7086\_ \_ \_

7085\_ \_ \_

Edge

Profile







Playful translucent vertical panels, with unique wave designs, interplay with lighting, colors, and textures,

#### **KEY SELECTION ATTRIBUTES**

- · Create a colorful accent area or add dramatic visual impact with a full-room installation
- · Unique wave designs can create a variety of visuals depending on the spacing of the vertical panels and the direction of installation
- Translucent Blades<sup>™</sup> panels coordinate with Armstrong<sup>®</sup> ceiling products and other interior finishes, including Infusions® Walls, Partitions and Canopies, and SoundScapes® Blades™ and Shapes

COLORS (partial list) For all colors see pg. 54 Due to printing limitations, shade may vary from actual product.

#### Solids

Warranty

1-Yr

1-Yr

1-Yr

Fire Rating

Class A

Class A

Class A



## † Color may vary panel to panel

# SUSPENSION COMPONENTS

Item Number	Description	Color	Pcs./Ctn.
7137AB	96" Suspension Bar with connector holes on both ends	Anodized Black	8 bars/4 connectors
6651AB	Suspension Bar End-to-End Connectors	Anodized Black	5
6655	Blades™ Hanging Kit**	Metal	1 kit

<sup>\*\*</sup> Each Blades™ Hanging Kit includes four hanging assemblies. Use one kit for each suspension bar.

#### PHYSICAL DATA

Material Polycarbonate

Surface Finish

#### **Fire Performance**

Infusions® Blades – Concepts™ panels have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

#### **Design Considerations**

Infusions® Blades – Concepts™ panels are not approved for exterior application.

Due to the unique nature of the woven fabric used in this product, Natural Linen and Blue Linen colors may vary panel to panel.

> TechLine / 1 877 276 7876 armstrongceilings.com/infusions (search: infusions blades concepts) BPCS-5091-617

The wave design on Infusions® Blades — Concepts™ panels is a 4' pattern. Six-foot Blades™ panels should only be pared with 48" or 96" Blades panels. Six-foot Blades panels should not be placed end-to-end when used with 48" and 96" Blades panels.

## **Installation Considerations**

Do not allow panel edges to get wet or be exposed to moisture.

Any fixtures adjacent to Infusions® Blades - Concepts™ panels must be independently supported. There is potential for limited natural deflection of panels.

Infusions® Blades – Concepts $^{\rm M}$  panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F.

Follow these guidelines for minimum distance from standard light sources.

LAMP TYPE	WATTAGE	DISTANCE
Halogen FL XL PAR 30	60	14"
Incandescent Bulb	120	15"
Quartz Halogen Work Light	500	23"

Additional light transmission information is available at armstrongceilings.com/infusions

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Spacing between two adjacent Blades  $^{\scriptscriptstyle{\text{TM}}}$  panel ends must be a minimum of 1/4'

#### Seismic Restraint

Infusions Blades – Concepts panels have been engineered, tested, and approved for use in all seismic areas. OSHPD/DSA installations may require additional attachment from panel to suspension bar. Consult Armstrong Ceilings to special order panels to accommodate these applications.

## Warranty

Details at armstrongceilings.com

Weight; Pieces/Carton

7085, 7086 – 8 pcs/ctn 7087 – 16 pcs/ctn



Due to the unique nature of the woven fabric used in these products, color may vary from panel to panel.

# METALWORKS™ Blades - Concepts™

Linear Panels smooth texture



WITH INFILL PANEL



Vertical panels in unique wave designs, are available in rich, wood-look visuals.

#### **KEY SELECTION ATTRIBUTES**

- · Create an accent area or add dramatic visual impact with a full-room installation
- · Unique wave designs can create a variety of visuals depending on the spacing of panels and the direction of installation
- · Rich wood looks bring warmth to any space
- · Perfect for both renovation and new construction projects

**COLORS** Due to printing limitations, shade may vary from actual product.







(CCH)

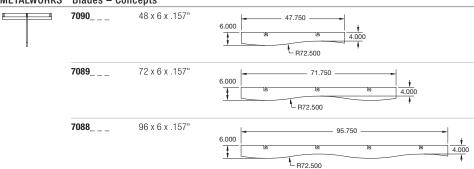
Walnut (CWN)

Mahogany (CMH)

#### PANEL SELECTION

**Dimensions** Nominal H x L Edge Item Profile (Inches)

#### METALWORKS™ Blades - Concepts™



Dots represent high **PERFORMANCE** level of performance.



#### SUSPENSION COMPONENTS

Description	Color	Pcs./Ctn.
96" Suspension Bar with connector holes on both ends	Anodized Black	8 bars/4 connectors
Suspension Bar End-to-End Connectors	Anodized Black	5
Blades™ Hanging Kit*	Metal	1 kit
	96" Suspension Bar with connector holes on both ends Suspension Bar End-to-End Connectors	96" Suspension Bar with connector holes on both ends  Anodized Black Suspension Bar End-to-End Connectors  Anodized Black

<sup>\*</sup> Each Blades™ Hanging Kit includes four hanging assemblies. Use one kit for each suspension bar.

#### PHYSICAL DATA

#### Material

Aluminum composite material – .157" thick (Aluminum with fire-retardant mineral core)

## Surface Finish

Factory-applied polyester paint

**Fire Performance**Tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

#### **Recycled Content**

Up to 20% recycled content

TechLine / 1 877 276-7876 armstrongceilings.com/metalworks (search: metalworks blades concepts) BPCS-5093-517

**Design Considerations**MetalWorks™ Blades — Concepts™ panels are not approved for exterior application.

Lighting will reflect differently through cut edges.

The wave design on MetalWorks™ Blades — Concepts™ panels is a 48" pattern. Six-foot Blades™ panels should only be pared with 48" or 96" Blades panels. Six-foot Blades panels should not be placed end-to-end when used with 48" and 96" Blades panels

#### **Installation Considerations**

Any fixtures adjacent to MetalWorks™ Blades – Concepts™ panels must be independently supported.

Adjacent panel ends must be spaced a minimum of 1/4" apart.

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**Design Support**Project management assistance is available by calling TechLine at 1 877 276-7876.

#### Seismic Restraint

Metallw restraints and supported the state of the state Armstrong Ceilings to special order panels to accommodate these applications. Refer to ASCE 7–10, section 13.5 architectural components for details on seismic requirements.

Warranty Details at armstrongceilings.com

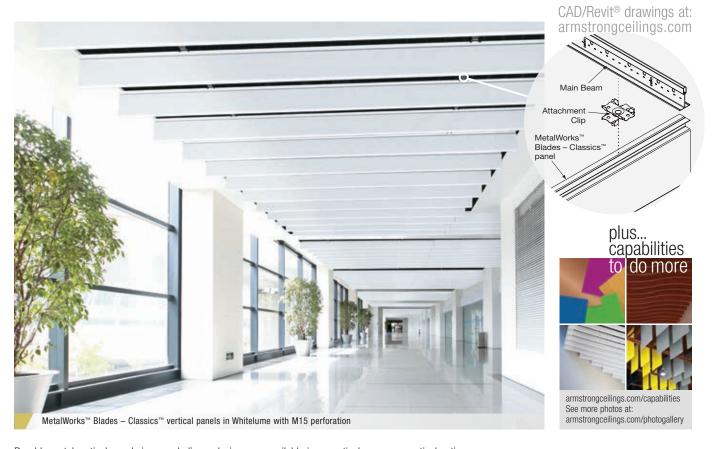
Weight; Pieces per Carton 0.50 lbs/LF; 10 pcs



<sup>◆</sup> When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 7088 C C H)

## METALWORKS™ Blades - Classics™

Linear Panels with Acoustical Options smooth texture



Durable metal vertical panels in upscale linear designs are available in acoustical or non-acoustical options.

#### **KEY SELECTION ATTRIBUTES**



- · Now available in 23" and 47" lengths for creative design layouts
- Six Effects<sup>™</sup> Wood Looks finishes
- · Create acoustical or non-acoustical upscale linear designs
- Blades  $^{\scriptscriptstyle\mathsf{TM}}$  panel spacing is variable to accommodate a variety of design and acoustical needs
- MetalWorks Blades Classic<sup>™</sup> panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Blades<sup>™</sup> panels come with two end caps, one end cap, or no end caps for maximum design flexibility
  - Join several Blades<sup>™</sup> panels together to create a longer run
  - Use double end capped panel for access areas
- · Fast, easy installation with standard Prelude® XL® 15/16" or 360° painted suspension systems
- · Custom RAL® colors available on unperforated (M1) panels only



MetalWorks™ Blades - Classics™ with Effects™ Dark Cherry finish

## **COLORS**

Due to printing limitations, shade may vary from actual product.





#### PERFORATION OPTIONS

(1:2 scale shown)





(Unperforated)

(Rd 1612)

Part of the Sustain™ portfolio, meeting sustainability compliance standards















For more information, visit our web site at armstrongceilings.com/metalworks or 1 877 276-7876 for custom blade lengths.



















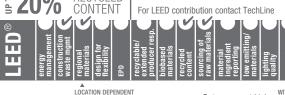


# METALWORKS™ Blades - Classics™

Linear Panels with Acoustical Options smooth texture

Declare<sup>™</sup> Livina Buildina Challenge Compliant

Sustainable Ceiling Systems Unperforated (M1)



Dots represent high VISUAL SELECTION **PERFORMANCE** level of performance.

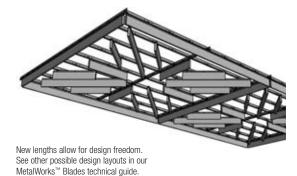
Edge Profile	Item No. ◆		Description/Dimensions L x W x D (Inches) Custom Sizes Available	Sabins/ Panel <sup>†</sup>	Wash	Scrub	Soil
METALWOR	KS™ Blades – Cla	assics™				— Durability —	
	8157 (e)	#- <del></del>	Vertical panel with caps on both ends 94-1/2 x 4 x 1"	2.5	•	•	•
	8156	#-{ <del></del>	Vertical panel with caps on both ends 46-1/2 x 4 x 1"	1.2	•	•	•
	8155	<i>(</i>	Vertical panel with caps on both ends 22-1/2 x 4 x 1"	0.6	•	•	•
	7202	<del>-</del>	Vertical panel with cap on one end 96 x 4 x 1"	2.5	•	•	•
	7203		Vertical panel with no end caps 96 x 4 x 1"	2.5	•	•	•

When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7201 M 1 5 E X M P). With M15 perforation

#### **ACCESSORIES**

 ltem Number	Description	Pieces/Carton
7204 **	MetalWorks™ Blades — Classics™ Attachment Clip (SS — Stainless Steel and KO — Black Oxide)	100
7205	MetalWorks Blades - Classics Alignment Device	24

<sup>◆◆</sup> When specifying or ordering, include the appropriate 2-letter color suffix, SS - Stainless Steel or KO - Black Oxide, (e.g., 7204 S S)



#### SUSPENSION SYSTEMS

15/16"



Prelude® XL® suspension system (Pgs. 391-392) (Black) or 360° Painted Grid (Pg. 383)

## PHYSICAL DATA

#### Material

Aluminum - thickness 0.032"

## Surface Finish

Factory-applied polyester paint. Available in White, Silver Grey, Gun Metal Grey, and Effects™ Wood Looks powder-coated, post-production finishes. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

#### Fire Performance

Tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

TechLine / 1 877 276-7876 armstrongceilings.com/blades (search: metalworks blades classics)

BPCS-5092-517

Perforated panels are supplied with a black fiberglass fleece acoustic infill bag to absorb sound (varies by Blade<sup>™</sup> panel length).

**Design Support**Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

**Design Considerations**When installed, panels hang 4-7/8" below grid face. Panels can be supported by heavy duty main beams or cross tees, with 2 attachment clips per panel. See MetalWorks™ Blades - Classics™ brochure online for additional design lay-outs.

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Seismic Restraint
Refer to ASCE 7-10, Section 13.5 Architectural
Components, for seismic requirements. Section 13.5,
item 2 refers to 13.2.3 Consequential Damage.

**Warranty** Details at armstrongceilings.com

Weight; Square Feet/Carton 1.43 lbs/SF



NOTE: 6" panel depth option available as a custom product

# SOUNDSCAPES® Blades™

Linear Acoustical Panels smooth texture



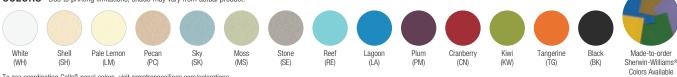


Acoustical vertical panels reduce reverberation time in your space - now in three new depths and 10 new curved profiles for wave designs

## **KEY SELECTION ATTRIBUTES**

- Excellent acoustical absorption 1.38 sabins/ft²
- · Twenty vertical panel sizes
- · Linear, upscale visual
- · Seismic tested
- · Integrated hardware
- Installs from a standard suspension system or individual suspension
- Custom panel options available, cloud and striated designs shown as examples on pg. 64
  - Custom colors within the Sherwin-Williams® color line
  - Add scrim to top edge as a premium option

## $\begin{tabular}{ll} \textbf{COLORS} & \textbf{Due to printing limitations, shade may vary from actual product.} \end{tabular}$



To see coordinating Calla® panel colors, visit armstrongceilings.com/colorations. For premium and custom capabilities, contact TechLine at 877 276-7876.

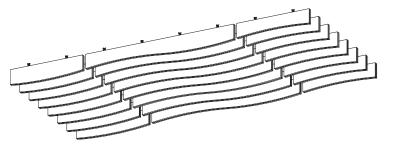


RECYCLED CONTENT

## Linear Acoustical Panels smooth texture

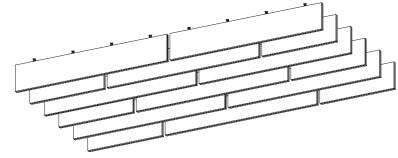
SOUNDSCAPES® Blades™

## LAYOUT OPTIONS

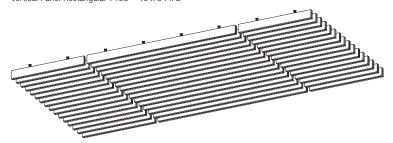


#### Straight Layout

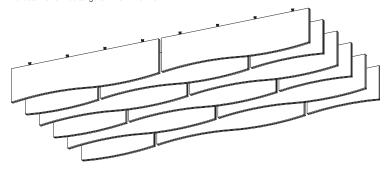
Vertical Panel 8' Wavelength Concave 7240 – 7.5 x 46 x 2"
Vertical Panel 8' Wavelength Convex 7241 – 10.5 x 46 x 2"
Vertical Panel 8' Wavelength Wave 7244 – 10.5 x 94 x 2"



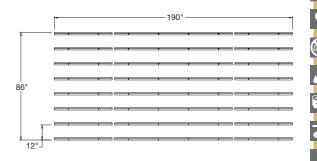
Staggered Layout Vertical Panel Rectangular 7192 – 16 x 46 x 2" Vertical Panel Rectangular 7193 – 16 x 94 x 2"

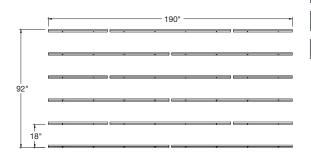


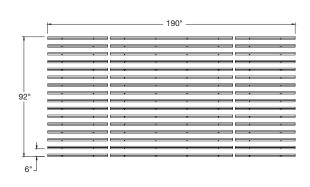
 $\begin{array}{l} \textbf{Straight Layout} \\ \textbf{Vertical Panel Rectangular 7190} - 5 \times 46 \times 2" \\ \textbf{Vertical Panel Rectangular 7191} - 5 \times 94 \times 2" \end{array}$ 

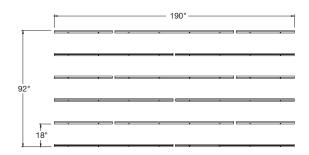


Staggered Layout
Vertical Panel 8' Wavelength Concave 7242 — 19.5 x 46 x 2"
Vertical Panel 8' Wavelength Convex 7243 — 22.5 x 46 x 2"
Vertical Panel 8' Wavelength Wave 7245 — 22.5 x 94 x 2"



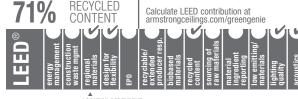






# SOUNDSCAPES® Blades™

Linear Acoustical Panels



smooth	texture	i Paneis		쁘	energy manag constr		ON DEPEND		biobas materi	conter Sourci	materi ingred report	low en materi	quality
VISUAL	SELECTION S	Shown in elevation	n view	PERF	ORMAI			ent esent high	n level of	f perform	ance.		
ltem No. ◆	Description	Dimensions (Inches)		Sabins/ Panel	Light Reflect	Fire Rating	Anti-Mold & Mildew	Sag Resist	Wash	Mact Impact	N Scratch	Soil Soil	Recycle Program
			Panel Rectangular		(White Only)			Humi- Guard+		— Dura	ability —		
7190	Vertical panel Rectangular	5 x 46 x 2"	11.0 + 24.0 + 11.0 + 1	2.2	0.90	Class A	•	•	•	•	•	•	•
7191 @	Vertical panel Rectangular	5 x 94 x 2"	11.0 1 24.0 1 24.0 1 11.0 1 1 5.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.5	0.90	Class A	•	•	•	•	•	•	•
3920 <sub></sub>	Vertical panel	10 x 46 x 2"	10* 24° 11° 10° 46° 11° 11° 11° 11° 11° 11° 11° 11° 11° 1	4.4	0.90	Class A	•	•	•	•	•	•	•
3921	Vertical panel	10 x 94 x 2"	11° 24° 24° 11° 11° 10° 10° 10° 10° 10° 10° 10° 10	6.5	0.90	Class A	•	•	•	•	•	•	•
7192 @	Vertical panel Rectangular	16 x 46 x 2"	24.0 11.0 16.0	7.0	0.90	Class A	•	•	•	•	•	•	•
7193	Vertical panel Rectangular	16 x 94 x 2"	24.0 24.0 11.0 16.0	14.4	0.90	Class A	•	•	•	•	•	•	•
3922 <sub></sub>	Vertical panel	22 x 46 x 2"	22°	9.7	0.90	Class A	•	•	•	•	•	•	•

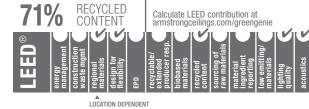
NOTE: Scrimmed top edges offered as "Premium." EXAMPLE: BPAS3920S6WH, where "S6" = scrimmed all sides. ◆ Add 2-letter color suffix to end of item number (e.g., 3920 <u>W</u> <u>H</u> = White)



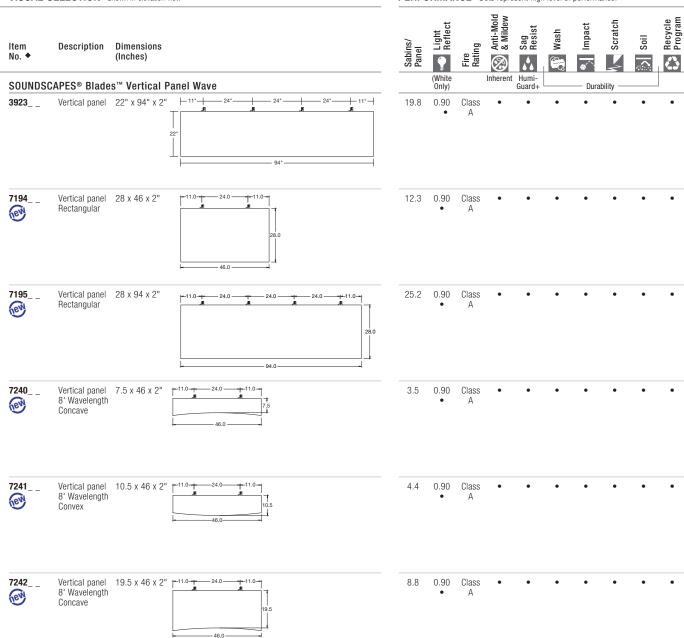
# SOUNDSCAPES® Blades™

Linear Acoustical Panels smooth texture

VISUAL SELECTION Shown in elevation view



PERFORMANCE Dots represent high level of performance



NOTE: Scrimmed top edges offered as "Premium." EXAMPLE: BPAS3920S6WH, where "S6" = scrimmed all sides.

• Add 2-letter color suffix to end of item number (e.g., 3920 <u>W</u> <u>H</u> = White)



0.90

Class

Vertical panel

8' Wavelength

Convex

22.5 x 46 x 2"

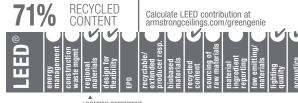
7243\_\_

new

# SOUNDSCAPES® Blades™

Linear Acoustical Panels smooth texture

VISUAL SELECTION Shown in elevation view



LOCATION DEPENDENT

**PERFORMANCE** Dots represent high level of performance.

tem No. ◆	Description	Dimensions (Inches)					Sabins/ Panel	Light Reflect	Fire Rating	Anti-Mold & Mildew	Sag Resist	Wash	Impact	<b>√</b> Scratch	Soil	Recycle Program
SOUNDSC	APES® Blade	s™ Vertical F	Panel Wave					(White Only)		Inherent	Humi- Guard+		— Dura	bility —		
7244 lew	Vertical panel 8' Wavelength Wave	10.5 x 94 x 2"	24.0	24.0	24.0 <del> </del> 11.0	10.5	8.1	0.90	Class A	•	•	•	•	•	•	•

18.9

4.0

9.3

0.90

0.90

0.90

Class

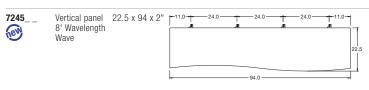
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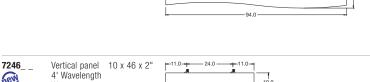
Class

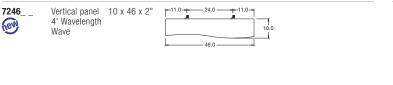
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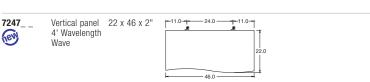
Class

Α

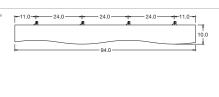


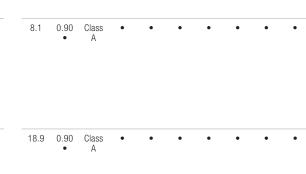


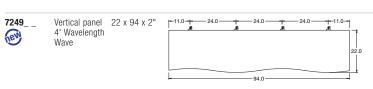












NOTE: Scrimmed top edges offered as "Premium." EXAMPLE: BPAS3920S6WH, where "S6" = scrimmed all sides.

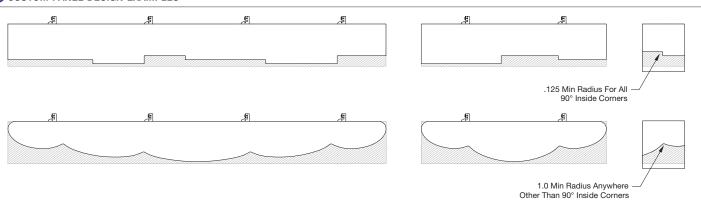
• Add 2-letter color suffix to end of item number (e.g., 3920 <u>W</u> <u>H</u> = White)



RECYCLED

SOUNDSCAPES® Blades™

# CUSTOM PANEL DESIGN EXAMPLES



#### INSTALLATION OPTIONS

Group	Susper	ısion
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Item No.	Description	Lin Ft/Carton	
PRELUDE®	XL®		
7301	HD Main Beam	240	9/16"
XL7341	48" Cross Tee	240	9/16" (14mm) 1-11/16" (43mm)
XL8320	24" Cross Tee	120	
7800	7/8" Wall Angle	360	15/16" (24mm)

360° PAINTED GF	RID S	uspension system	available ir	RAL® colors.

56418	144" HD Main Beam	240
56421	48" Cross Tee	240
56419	24" Cross Tee	120
7800	7/8" Wall Angle	360



#### Individual Suspension

Item No.	Description	Pieces/Carton			
SUSPENSION HARDWARE					
BP6655	4-Point Hanging Kit  PRIES	4 per bag			
ARBRKT	Adjustable Hanger Bracket	80			
QSUTC	Rigid Attachment Clip	150			
STAC	Single Tee Adapter Clip	120	Ro		

## PHYSICAL DATA

#### Material

2" thick fiberglass with DuraBrite® scrim on face and sides.

Surface Finish
DuraBrite scrim with factory-applied paint on face
and sides. Standard White has energy-saving, high
light-reflective finish (LR 0.90). Top of panel is
unfinished with embedded hanging clips.

#### Fire Performance

SoundScapes® Blades™ panel material is ASTM E84 Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

SoundScapes® Blades™ panels, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system.

Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

Acoustical Performance
1.38 Sabins per square foot or 64% more sound absorption
than the same square footage of NRC 0.90 continuous
ceilings. Blades™ colored panels have slightly reduced acoustical performance.

Design Considerations
SoundScapes® Blades™ panels maintain a natural bow
that may be noticeable when installed 2" or less apart.
Deflection up to 1/8" has been documented in some

Special care in installation and handling must be taken with color panels to avoid surface damage to the paint finish. Custom colors are available with a Sherwin-Williams® color code from the Duration® or Harmony® flat interior paint families (Code SW \_ \_ \_ \_).

LEED® is a registered trademark of the U.S. Green Building Council Sherwin-Williams®, Duration®, and Harmony® are registered trademarks of The Sherwin-Williams Company

RAL® is a registered trademark of RAL gGmbH. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America

#### Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

Recommended Suspension Systems
SoundScapes® Blades™ panels are pre-assembled with
metal hanging clips in the top of the panels. See Installation
Instructions BPLA-297844 for installation details.

Details at armstrongceilings.com

Panels/Carton

Panel Weight 1.00 lbs/SF

Minimum Order Quantity



LOCATION DEPENDENT



This easy-to-install acoustical option is available in a variety of standard fabrics.

#### **KEY SELECTION ATTRIBUTES**

- 100% post-consumer woven fabrics coordinate with Soundsoak® Walls
- On average, one baffle per 40 square feet, or 20% coverage, reduces reverberation time by approximately 50%
- · Seismic tested
- · Easy to install with sleek, adjustable aircraft cable hanging kit
- · Custom Soundsoak® Baffles information available at armstrongceilings.com/baffles

#### WOVEN FABRIC

Partial list - all fabrics at armstrongceilings.com









Cherry Neutral (EU) (CN)

Custom Fabrics Available

SAILCLOTH FABRIC

Partial list - all colors at armstrongceilings.com

(BO)

Silver

(SCSR)



(SCWE)







Available

VISUAL SELECTION

				_
Item No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes	Mounting	

Sabins/ Panel Fire Rating

Composite

Class A

Class A

**PERFORMANCE** 

14.5

9.5

SOUNDSOAK Baffles				
6605	Fabric-wrapped Square Edge with <b>Fiberglass core</b>	24 x 48 x 2"	Eye Hooks	
6607	Sailcloth Nylon Stitched Sealed Edge with <b>Fiberglass core</b>	24 x 48 x 1-1/2"	Grommets	

When specifying or ordering, include 2- or 4-letter color suffix.

## INSTALLATION OPTIONS

Soundsoak® Baffles custom panels series in Sailcloth, Yellow, Navy Blue, and Silver

Item **Number Description** 

**ACCESSORIES** 

Dimensions Nominal WxLxH

5670 Baffle Hanging Kit (2 cables, 2 carabiners, and 2 adjusters)

1/16" x 96" (cable)







Eye Hook Mounting

Grommet Mounting

#### PHYSICAL DATA

#### Material

Rigid fiberglass core

Surface Finish Nylon or fabric

#### Fire Performance

6605 - Tested in accordance with ASTM E84 – 25/200; Composite Class A rating per IBC (fabric, substrate, etc.); Tested to CAN/ULC S102 – 25/250 6607 - Tested in accordance with ASTM E84 – 25/200. Composite Class A rating per IBC (fabric, substrate, etc.)

Soundsoak® Baffles, as with other architectural features Southsoaks barnes, as with other architectural reactives located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

#### Acoustical Performance

Hanging Kit

6605 – 1.8 Sabins per square foot 6607 – 1.19 Sabins per square foot

#### Installation Consideration

Cutting baffles is not recommended.

#### Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

Warranty Details at armstrongceilings.com

Weight/Square Feet Bulk packaged per order 6605 – 14 lbs. per Baffle 6607 – 10 lbs. per Baffle





# TECTUM<sup>®</sup> Blades<sup>™</sup> and Baffles

**Custom Vertical Linear Panels** coarse texture





Acoustical vertical panels help control reverberation and add a design element to your interior spaces.

#### **KEY SELECTION ATTRIBUTES**

- · Upscale linear visual adds acoustics and aesthetics to any space
- Noise Absorption up to 0.41 Sabins/SF
- Panel sizes in 1", 1-1/2", and 2" thickness; widths: 23-3/4" to 47-3/4"; heights from 11-3/4" to 23-3/4"
- Square edges or radius corners; beveled bottom edges available
- Custom shapes available to meet your project needs
- · 24" on center spacing

#### **COLORS** Due to printing limitations, shade may vary from actual product.



(TWH)

Natural

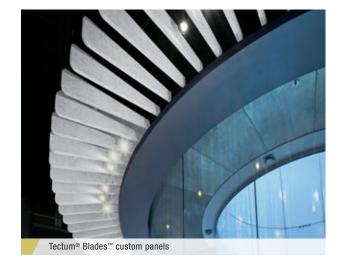
(TNA)



Made-to-order Colorations® Colors Available



Made-to-order Sherwin-Williams® Colors Available



# You Can Use Clouds and Canopies to Enhance Design and Acoustical Performance

Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

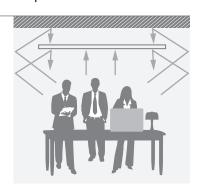
Clouds and canopies can provide sound absorption and are especially effective since they can absorb sound from the front and back of the panels.

Sabin is the term used to measure acoustics for these ceiling forms. A cloud installation covering about 50% of the ceiling will almost double reverberation time improvement, versus a continuous ceiling, and almost four times that of an exposed structure space. See example below.

## Sabin

The preferred metric for measuring acoustics for "space absorbers" like clouds and canopies.

Total acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC, while "space absorbers" are directly measured. Acoustical clouds and canopies can provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces.



Example:	Exposed Structure	Cloud Installation	Continuous Ceiling
5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet	No Treatment (0% Coverage)	SoundScapes® Shapes (50% coverage)	Continuous Optima® Ceiling (100% Coverage)
Ceiling	Exposed Structure	156 Shapes: 46" x 46" Squares	Suspended 60" Below Deck
Sabin/SF	0	1.49	0.90
Reverberation Time	3.4 sec	0.9 sec	0.5 sec
RT Improvement	ref	73%	86%
SPL Reduction	ref	-4.5 dB	-6.0 dB

For definitions of acoustical terms, see pages 473-474 in this catalog.





# CLOUDS, CANOPIES, AND ACOUSTICAL PANELS At-a-Glance



helping to bring your one-of-a-kind ideas to life

Icons are used throughout the catalog to help you quickly identify key products with high level of performance. **High Acoustics** 

Sabin measures are noted under physical data for each product.

Fire Performance

Performance in Clouds and Canopies is dependent on panel attributes. See product pages for specific panel performance.

**ICON KEY** 

#### **CLOUDS**



SERPENTINA® Vault Clouds

TECTUM® Shapes & Clouds

≅₩✓✓<



Pg. 88

Pg. 99







SERPENTINA® Classic Clouds Pgs. 85-86



Pg. 84

Pgs. 89-92







SOUNDSCAPES® Shapes

≘ the ♀ ⊗ ∧ € ₹





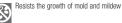




Pg. 95-98

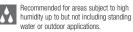
BioBlock®

Seismic Category D, E & F Light Reflectance



Light reflectance of 0.83 or greater.

#### **Humidity/Sag Resistance** HumiGuard® Plus

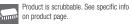


#### **High Durability** Washability



Offers superior wash resistance without compromising panel finish integrity.

## Scrubbability



#### Impact Resistance



Excellent resistance to surface impact.

## Scratch Resistance



Excellent resistance to surface scratching, scuffing scratching, scuffing, or chipping as per Hess Rake Test.

#### Soil Resistance



Excellent resistance to dirt and/or grease for lasting value and performance.

#### **Color Availability**



Available in color

#### Recycle Program



Product is recyclable through the Product is recyclause unesgen. Armstrong Recycling Program.



INFUSIONS® Shapes



SERPENTINA® Waves Clouds





INFUSIONS® & METALWORKS™ Wings armstrongceilings.com/wings

## **CANOPIES**



INFUSIONS® Accent Canopies ₩ **P** 



METALWORKS™ Canopies



armstrongceilings.com/metalworks



SOUNDSCAPES® Acoustical Pgs. 93-94













SOUNDSCAPES® Basics Canopies armstrongceilings.com/soundscapes



WOODWORKS® Canopies



# CLOUDS, CANOPIES, AND ACOUSTICAL PANELS

Colors, Finishes, and Patterns

Silver Grey

FORMATIONSTO Clouds Colors, finishes, and patterns listed may not apply to each individual product. Before specifying, consult product details at armstrongceilings.com/canopiesandclouds

METALWORKS™ Mesh™ Lay-in Panels (additional options on product pages 135-138) WOODWORKS® Grille and Open Cell Panels Woven Wire Welded Wire **Expanded Metal** (additional options on pages 185-190, 197-198) Grille Light Grille Dark Linear Square Diamond 1Cell Lattice Grille Grille Weave Maple (GMP) Cherry (GLC) Cherry (GDC) Walnut (GWN) Weave METALWORKS Square Tegular and Vector® Panels (additional options on pages 121-126) (product pages 287-292, 315-320)

(FXWN)

Gun Metal Effects™ Maple Effects Cherry Effects Dark Effects Walnut Custom Colors and

Cherry (FXDC)

(FXCH)

(FXMP)

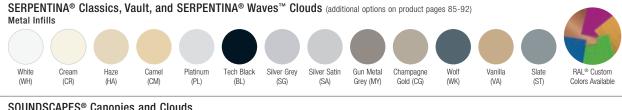


(WH)

Custom Finishes

Available

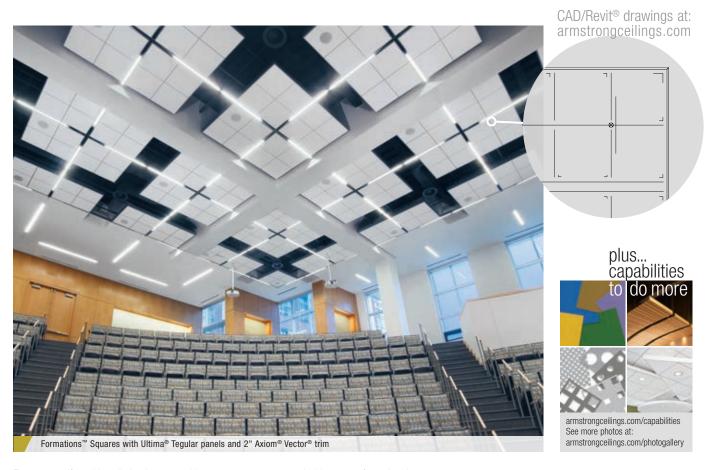








# FORMATIONS™ Acoustical and Accent Cloud Kits



Easy-to-specify and install cloud system with pre-cut components and wide range of panel options.

#### **KEY SELECTION ATTRIBUTES**

- Ideal for acoustically challenged or open plenum spaces:
- Reduce acoustical reverberation time in the space
- Reduce noise levels in the space
- Increase speech intelligibility
- · Clouds appear to float
- Layouts and sizing for full-size panel installation
- · Standard components for custom look

# Formations Suspension System and Axiom® Trim Kits

- Axiom made from extruded aluminum, offers better registration, handleability, and finished appearance vs. standard cold-rolled steel
- Axiom® Vector® maintains a clean 1/4" Vector reveal at the perimeter when used within factory-finished panels
- Combines the Formations™ StrongBack™ mounting system with a sleek, strong aircraft cable system to recess the cable two feet away from the vertical face of the cloud, for a clean visual requiring fewer suspension hangers
- Tested for seismic installations
- · Suspension Kits include:
- Axiom Trim cut to length with factory-mitered corners
- Unique Axiom trim for Formations Support Hanger carrying channel
- Prelude® XL® suspension system components, cut to length
- Appropriate amount of Axiom splices and T-Bar connectors
- Aircraft cable and hardware for attachment to structure



# FORMATIONS™ Acoustical and Accent Cloud Kits

# STEP 1: START BY CHOOSING THE FORMATIONS™ ACCENT AND ACOUSTICAL CLOUD KITS THAT FIT YOUR PROJECT NEEDS

# Cloud Type Description **Formations Curves** Soften and quiet any space by adding a few curves. · 12 suspension system/trim colors · 3 standard trim heights • 19 shapes and sizes Formations Squares/Rectangles A bold, captivating design option with outstanding sound absorption. · 12 suspension system/trim colors · 3 standard trim heights 15 shapes and sizes Formations Squares/Rectangles with Staggered Designs Create visually interesting clouds the easy way. • 12 suspension system/trim colors · 3 standard trim heights · 78 shapes and sizes Formations Squares/Rectangles with Plank Designs Reduce the amount of visible suspension and create a sleek, clean look. • 12 suspension system/trim colors · 3 standard trim heights · 36 shapes and sizes Formations Squares/Rectangles for Drywall Improved floating visual compared to field constructed track and channeled clouds. · 3 standard trim heights · 21 shapes and sizes Formations Squares/Rectangles with Integrated Lighting Distribute safe, low-voltage direct current electrical power through the acoustical ceiling suspension system (grid) for more efficient lighting. · 2 standard trim heights · 3 suspension systems 4 shapes and sizes Formations Squares/Rectangles with DC FlexZone™ Suspension System Distribute safe, low-voltage direct current (DC) electrical power through the acoustical ceiling



suspension system (grid) for more efficient lighting.

- · 2 standard trim heights
- 2 suspension systems
- 12 shapes and sizes



# FORMATIONS™ Acoustical and Accent Cloud Kits

# STEP 2: SELECT A CEILING PANEL THAT WORKS WITH YOUR CLOUD Panels specified, ordered and shipped separately from Formations™ kits

ACOUSTICAL PANELS Due to printing limitations, shade may vary from actual product

Curves / DC FlexZone™/ with Integrated Lighting Optima®/Ultima® Tegular and Vector® Panels



NOTE: Ultima® and Optima® Vector® panels are the only available as factory-cut curved panels. Other 24" x 24" mineral fiber/fiberglass panels may be used but may require field cutting.

## Staggered & Planks Optima Vector Panels





## Squares

Lyra®/Calla®/Optima/Ultima/Cirrus®/Cortega®/Dune™/Fine Fissured™ Tegular, Vector®, and Square Lay-in Panels







Tegular &



Vector



Dune Tegular



Cortega Tegular Tegular



MetalWorks™ Square Tegular and Vector Panels





(WH)

White



Finishes Available

Custom Colors and

Micro-

perforated

Effects™ Maple (FXMP)

Effects

Cherry

Cherry (FXDC)

Effects Dark

Effects Walnut

NOTE: Effects colors are only available for extra microperforated panels. Solid wood panels cannot be used in Formations clouds

# Ultima® Health Zone™ Create!™ Lay-in Panels



(BA)









Walnut (WN)

For more information on Create! panels visit armstrongceilings.com/create

# **COLORATIONS® COLORS**







Standard Colorations® finishes available on coordinating Calla® ceiling panels, Suprafine® 9/16" suspension system, and select Axiom® trim.

Made-to-order Sherwin-Williams® Colors Available

# ACCENT PANELS Due to printing limitations, shade may vary from actual product.

# Squares

MetalWorks<sup>T</sup> Mesh™ Lay-in Panels



White (TWH)



Silver Grey (SG)



Grey (MY)



WoodWorks® Grille Tegular Panels Open Cell Vector Panels (5 panel designs)



Maple



Grille Dark Cherry Light Cherry



Walnut



NOTE: For a complete list of panels, visit armstrongceilings.com/metalworks; armstrongceilings.com/woodworks

# STEP 3: SELECT YOUR SUSPENSION SYSTEM AND TRIM COLORS

(BL)

Due to printing limitations, shade may vary from actual product

# Suspension System / Axiom® Trim Colors





RAL® / Custom

# SUSPENSION SYSTEMS



Prelude® 15/16" suspension system included 1/4" Reveal 9/16" in all kits (except Drywall or suspension system DC FlexZone suspension



DC FlexZone™ Silhouette® suspension system



DC FlexZone Suprafine® 9/16"



Drywall 1-1/2" suspension system



Grey (MY) DC FlexZone







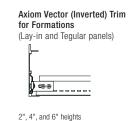
# FORMATIONS™ Acoustical and Accent Cloud Kits

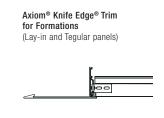
# STEP 4: SELECT YOUR AXIOM® TRIM PROFILE AND HEIGHT

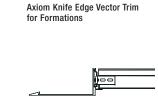
# **AXIOM® TRIM TYPES**

Axiom® Vector® Trim for Formations™









# **AXIOM TRIM PROFILE OPTIONS**











(available in 2", 4", and 6" heights)

Vector panel with Axiom for Formations Vector Trim (available in 2", 4", and 6" heights)

Tegular panel with inverted Axiom for Formations Vector Trim (available in 2", 4", and 6" heights)

Tegular panel with Axiom for Formations Knife Edge for Vector Trim

Vector panel with Axiom for Formations Knife Edge for Vector Trim

# ENSURE YOUR TRIM IS COMPATIBLE WITH YOUR CEILING PANEL CHOICE.

Compatible Ceiling Panels		Trim Choices:				
Edge Profile Panel		Axi Axiom Vec Panel Vector (Inv		Axiom Knife Edge	Axiom Knife Edge Vector	
Formations	s Curves	Available in 2", 4", and 6" heights	Available in 2", 4", and 6" heights			
	Lay-in	-	•	-	-	
	Optima® Square Tegular	-	_	-	-	
<u>L</u>	Optima® Vector® (Factory-cut)	•	-	-	-	
1	Ultima® Beveled Tegular	-	•	-	-	
5	Ultima® Vector (Factory-cut)	•	-	-	-	
Formation	s Squares					
	Lay-in	-	•	•	-	
7	Calla® Square Tegular	•	•	•	•	
7	Lyra® Square Tegular	•	•	•	•	
	Optima Square Tegular	•	•	•	•	
<u>L</u>	Optima — Vector	•	_	-	•	
1	Ultima® — Beveled Tegular	•	•	•	•	
5	Ultima Vector	•	-	_	•	
	Cirrus®/Cortega®/ — Dune™/ Fine Fissured™ Angled Tegular	-	•	•	-	

Compatible Ce	eiling Panels		Trim	Choices:	s:			
Edge Profile Panel Formations Squares		Axiom Vector	Axiom Vector (Inverted)	Axiom Knife Edge	Axiom Knife Edge Vector			
		Available in 2", 4", and 6" heights	Available in 2", 4", and 6" heights					
	Ultima® Health Zone™ Create!™ Square Lay-in	_	•	•	-			
	MetalWorks™ Square Tegular	•	•	•	•			
4	MetalWorks Vector	•	-	-	•			
	WoodWorks® Grille Tegular	•	•	•	•			
	WoodWorks Open Cell Vector	•	-	-	-			
ormations	Planks & Staggere	ed						
ς,	Optima Vector	•	-	-	-			
Formations 1	for Drywall							
	N/A	Axiom D	rywall Trim					
Formations v	with DC FlexZone <sup>†</sup>	™ Suspen	sion Systen	n				
	Optima Square Tegular	•*	-	-	-			
	Ultima Beveled Tegular	•*	-	-	-			



# FORMATIONS™ Acoustical and Accent Cloud Kits - Circles

76% T1% RECYCLED CONTENT Calculate LEED contribution at armstrongceilings.com/greengenie 品 ш

LOCATION DEPENDENT

# STEP 5: SPECIFY KITS, COLORS, AND PANEL SELECTIONS

# **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number, the special factorycut curved Vector® panel kit number, and any extra cartons of the infill panels you may need.

Standard circle and rounded square clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® Trim.

# EXAMPLE:

# <u>C4VES</u> <u>0606C</u> \_ \_

4" High	6' x 6'	Color
Axiom®	Cloud	Suffix◆
Vector®		
Trim		

Also order curved Optima® Vector® Panel Kit: 3970

Custom options available that include a wide range of Axiom trim and suspension system options.

• If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

## VISUAL SELECTION

Cloud Size		Kit Item No. ◆				
(Feet)		(Axiom Trim & Suspension System)				
Curves		15/16" Prelude				
6'	Circle	C _ VES0606C				
6' x 8'	Oval	C _ VES0608				
6' x 10'	Oval	C _ VES0610				
6' x 12'	Oval	C _ VES0612				
6' x 14'	Oval	C _ VES0614				
8'	Circle	C _ VES0808C				
8' x 8'	Rounded Square	C _ VES0808				
8' x 10'	Rounded Square	C _ VES0810				
8' x 12'	Rounded Square	C _ VES0812				
8' x 14'	Rounded Square	C _ VES0814				
10'	Circle	C _ VES1010C				
10' x 10'	Rounded Square	C _ VES1010				
10' x 12'	Rounded Square	C _ VES1012				
10' x 14'	Rounded Square	C _ VES1014				
11'-5"	Circle	C _ VES1212C				
12' x 12'	Rounded Square	C _ VES1212				
12' x 14'	Rounded Square	C _ VES1214				
14'	Circle	C _ VES1414C				
14' x 14'	Rounded Square	C VES1414				

Suspension

## PANEL SELECTION

## Optima® Vector® Factory-cut Curved Panels

Kit No.	Cartons Required	Required Extra Item 3900 24" x 24" (Ctns)
3970	1	0
3971	1	1
3971	1	1
3971	1	1
3971	1	1
3973	1	1
3972	1	1
3972	1	1
3972	1	1
3972	1	2
3974	2	1
3972	1	2
3972	1	2
3972	1	2
3975	2	2
3972	1	2
3972	1	3
3976	2	3
3972	1	4

## Ultima® Vector® Factory-cut Curved Panels

Kit No.	Cartons Required	Required Extra Item 1920 24" x 24" (Ctns)
1970	1	0
1971	1	1
1971	1	1
1971	1	1
1971	1	1
1973	1	1
1972	1	1
1972	1	1
1972	1	1
1972	1	2
1974	2	1
1972	1	2
1972	1	2
1972	1	2
1975	2	2
1972	1	2
1972	1	3
1976	2	3
1972	1	4

# **CLOUD SHAPE AND SIZE SELECTION**

# Curves



8' x 8'

10' x 10'

12' x 12

6'

Circle

Rounded Square

8'

Circle

Rounded Square

Rounded Square









Rounded Square





6' x 6'









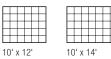




























Rounded Square

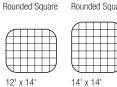
10'

Circle



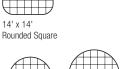






11'-5"

Circle







**CEILING & WALL SOLUTIONS** 

# FORMATIONS™ Acoustical and Accent Cloud Kits - Squares & Rectangles

76% T1% RECYCLED CONTENT Calculate LEED contribution at armstrongceilings.com/greengenie

LOCATION DEPENDENT

# STEP 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS

# **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number and the panel item number.

Standard square and rectangle clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® Trim, Axiom® Knife Edge® Tegular or Vector Trim. EXAMPLE:

# C4VES 0606C \_

4" High 6' x 6' Color Suffix◆ Axiom Cloud Vector

Also order square Optima® Vector Panel Kit: 3900 (24" x 24" panels - 1 carton).

Custom options available that include a wide range of Axiom trim and suspension system options.

• If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

# **VISUAL SELECTION** PANEL SELECTION

VISUAL	SELECTION		PANEL SELECTION					
Cloud Size	Axiom Profile	Suspension Kit Item No. ◆ (Axiom Trim & Suspension System)	Optima® Vector® Panels	Ultima® Vector® Panels	Optima Tegular Panels	Ultima® Tegular Panels		
Sauares	s/Rectangles	15/16" Prelude	Item 3900 (Ctns)	Item 1920 (Ctns)	Items 3250, 3354, 3253 (Ctns)	Item 1911 (Ctns)		
6' x 6'	Vector	C _ VEA0606	1	1	1**	1**		
	Knife Edge Tegular	CKETA0606	_	_	1	1		
	Knife Edge Vector	CKEVA0606	1	1	_	_		
6' x 8'	Vector	C _ VEA0608	1	1	1**	1**		
	Knife Edge Tegular	CKETA0608	_	_	1	1		
	Knife Edge Vector	CKEVA0608	1	1	_	_		
6' x 10'	Vector	C _ VEA0610	2	2	1**	2**		
	Knife Edge Tegular	CKETA0610	_	_	1	2		
	Knife Edge Vector	CKEVA0610	2	2	_	_		
6' x 12'	Vector	C _ VEA0612	2	2	1**	2**		
	Knife Edge Tegular	CKETA0612	_	_	1	2		
	Knife Edge Vector	CKEVA0612	2	2	_	_		
6' x 14'	Vector	C _ VEA0614	2	2	1**	2**		
	Knife Edge Tegular	CKETA0614		_	1	2		
	Knife Edge Vector	CKEVA0614	2	2	_	_		
8' x 8'	Vector	C _ VEA0808	2	2	1**	2**		
	Knife Edge Tegular	CKETA0808			1	2		
	Knife Edge Vector	CKEVA0808	2	2				
B' x 10'	Vector	C _ VEA0810	2	2	1**	2**		
0 % 10	Knife Edge Tegular	CKETA0810			<u>·</u> 1	2		
	Knife Edge Vector	CKEVA0810	2	2				
8' x 12'	Vector	C _ VEA0812	2	2	1**	2**		
0 X 12	Knife Edge Tegular	CKETA0812			<u>'</u> 1	2		
	Knife Edge Vector	CKEVA0812	2	2				
8' x 14'	Vector	C _ VEA0814	2	2	1**	3**		
0 X 1 1	Knife Edge Tegular	CKETA0814			<u>'</u> 1	3		
	Knife Edge Vector	CKEVA0814	2	2				
10' x 10'		C _ VEA1010	2	3	2**	3**		
10 110	Knife Edge Tegular	CKETA1010			2	3		
	Knife Edge Vector	CKEVA1010	2	3				
10' x 12'		C _ VEA1012	3	3	2**	3**		
10 112	Knife Edge Tegular	CKETA1012			2	3		
	Knife Edge Vector	CKEVA1012	3	3				
10' x 14'		C _ VEA1014	3	3	2**	3**		
10 A 14	Knife Edge Tegular	CKETA1014		- -	2	3		
	Knife Edge Vector	CKEVA1014	3	3	_	_		
12' x 12'		C _ VEA1212	3	3	2**	3**		
14 14	Knife Edge Tegular	CKETA1212			2	3		
	Knife Edge Vector	CKEVA1212	3	3		_		
10' v 11'			4	3 4	2**	4**		
12' x 14'	Knife Edge Tegular	C _ VEA1214			<del>-</del>			
		CKETA1214			2	4		
1/11/1/1/1	Knife Edge Vector	CKEVA1214	4	4	3**	 5**		
14' x 14'		C _ VEA1414	5	5				
	Knife Edge Tegular	CKETA1414		-	3	5		
	Knife Edge Vector	CKEVA1414	5	5				

# MORE PANEL OPTIONS

Place these panel orders with Armstrong Ceilings Customer Service - 1 877 276 7876

Panel option	ons
featureḋ o	n pg. 59

Calla®

Cirrus®

Cortega®

Dune™

Fine Fissured™

Lyra®

Ultima® Health Zone™ Create!™

MetalWorks™ Tegular

MetalWorks™ Vector®

MetalWorks™ Mesh™

WoodWorks® Grille Tegular

WoodWorks Open Cell



<sup>\*\*</sup> These items use Axiom for Formations Vector Trim (inverted)

# FORMATIONS™ Acoustical and Accent Cloud Kits - Staggered



LOCATION DEPENDENT

# STEP 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS





# **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number and the panel item numbers.

Standard staggered clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® Trim. EXAMPLE:

# 0606 V2A 1222V \_ \_

6' x 6' 2" High 1' x 2' / Color Cloud Axiom® 2' x 2' Suffix\* Vector® Optima® Suffix ◆ Trim Vector® Panels

Also order staggered Optima® Vector Panel Kits: 3903 (12" x 24" panels - 1 carton) and 3900 (24" x 24" panels - 1 carton).

• If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

## **VISUAL SELECTION**

Suspension Cloud Kit Item No. ◆ Size (Axiom Trim & Suspension System) (Feet)

Staggered	15/16" Prelude
6' x 6'	0606V _ A V
6' x 8'	0608V _ A V
6' x 10'	0610V _ A V
6' x 12'	0612V _ A V
6' x 14'	0614V _ A V
6' x 16'	0616V _ A V
8' x 6'	0806V _ A V
8' x 8'	0808V _ A V
8' x 10'	0810V _ A V
8' x 12'	0812V _ A V
8' x 14'	0814V _ A V
8' x 16'	0816V _ A V
10' x 6'	1006V _ A V
10' x 8'	1008V _ A V
10' x 10'	1010V _ A V
10' x 12'	1012V _ A V
10' x 14'	1014V _ A V
10' x 16'	1016V _ A V
12' x 6'	1206V _ A V
12' x 8'	1208V _ A V
12' x 10'	1210V _ A V
12' x 12'	1212V _ A V
12' x 14'	1214V _ A V
12' x 16'	1216V _ A V
14' x 6'	1406V _ A V
14' x 8'	1408V _ A V
14' x 10'	1410V _ A V
14' x 12'	1412V _ A V
14' x 14'	1414V _ A V
14' x 16'	1416V _ A V
16' x 6'	1606V _ A V
16' x 8'	1608V _ A V
16' x 10'	1610V _ A V
16' x 12'	1612V _ A V
16' x 14'	1614V _ A V

1616V \_ A \_ \_ \_ \_ V \_ \_

## PANEL SELECTION

Optima® Vector® **Panels** 

2" x 24" / 24" x 24"	24" x 24" / 24" x 48"	24" x 48" / 24" x 96"
em 3903 / 3900 (Ctns)	Item 3900 / 3908 (Ctns)	Item 3908 / 3907 (Ctns
1/1	1/1	_
1/1	1/1	_
1/2	1/1	_
1/2	1/1	_
1/2	1/1	_
1 / 2	1 / 1	1/1
1/1	1/1	_
1 / 2	1/1	_
1 / 2	1/1	_
1 / 2	1/1	_
1/3	1/1	_
1/3	1 / 2	1 / 1
1/2	1 / 1	_
1/2	1/1	_
1 / 2	1/1	-
1/3	1 / 2	-
1/3	1 / 2	_
1 / 4	1 / 2	1 / 2
1/2	1/1	-
1 / 2	1 / 1	_
1/3	1/1	_
1/3	1 / 2	_
1 / 4	1 / 2	-
1 / 4	1 / 2	1 / 2
1 / 2	1/1	_
1/3	1 / 1	_
1/3	1 / 2	_
1 / 4	1 / 2	_
1 / 4	1 / 2	_
1/5	1/3	1 / 2
1/2	1/1	_
1/3	1/1	_
1/3	1/2	_
1/4	1 / 2	_
1/5	1 / 2	_
1/5	1/3	1 / 2
., 3	170	172



16' x 16'

# FORMATIONS™ Acoustical and Accent Cloud Kits – Staggered

# STAGGERED CLOUD SHAPE AND SIZE SELECTION

12" X 24"	/ 24" X 24" P	ANELS				
6' x 6'	6' x 8'		6' x 10'	6' x 12'	6' x 14'	6' x 16'
8' x 6'	8' x 8'		8' x 10'	8' x 12'	8' x 14'	8' x 16'
10' x 6'	10' x 8'		10' x 10'	10' x 12'	10' x 14'	10' x 16'
12' x 6'	12' x 8'		12' x 10'	12' x 12'	12' x 14'	12' x 16'
14' x 6'	14' x 8'		14' x 10'	14' x 12'	14' x 14'	14' x 16'
16' x 6'	16' x 8'		16' x 10'	16' x 12'	16' x 14'	16' x 16'
24" X 24"	/ 24" X 48" P	ANELS				24" X 48" / 24" X 96" PANELS
6' x 6'	6' x 8'	6' x 10'	6' x 12'	6' x 14'	6' x 16'	6' x 16'
8' x 6'	8' x 8'	8' x 10'	8' x 12'	8' x 14'	8' x 16'	8' x 16'
		10, 10,				
10' x 6'	10' x 8'	10' x 10'	10' x 12'	10' x 14'	10' x 16'	10' x 16'
12' x 6'	12' x 8'	12' x 10'	12' x 12'	12' x 14'	12' x 16'	12' x 16'
14' x 6'	14' x 8'	14' x 10'	14' x 12'	14' x 14'	14' x 16'	14' x 16'

16' x 8'

16' x 6'

# FORMATIONS™ Acoustical and Accent Cloud Kits - Planks



LOCATION DEPENDENT

# STEP 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS

# **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number and the panel item number.

Standard plank clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® Trim.

# EXAMPLE:

# 1210 V4P 26V \_ \_

12' x 10' 4" High 2' x 6' Color Axiom Optima Suffix Cloud Vector Vector Trim Panels

Also order plank Optima® Vector® Panel Kit: 3906 (2' x 6' - 1 carton).

• If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

## **VISUAL SELECTION**

8' x 14'

8' x 16'

12' x 6'

12' x 8'

12' x 10'

12' x 12'

12' x 14'

12' x 16' 16' x 6'

16' x 8'

16' x 10'

16' x 12'

16' x 14' 16' x 16'

Cloud	Suspension Kit Item No. ◆				
Size	(Axiom Vector Trim & Suspension System)				
Planks	15/16" Prelude				
8' x 6'	0806V _ P24V				
8' x 8'	0808V _ P24V				
8' x 10'	0810V _ P24V				
8' x 12'	0812V _ P24V				

0814V \_ P24V \_

0816V \_ P24V \_ \_

1206V \_ P \_ \_ V \_ \_

1208V \_ P \_ \_ V \_ \_

1210V \_ P \_ \_ V \_ \_

1212V \_ P \_ \_ V \_ \_ 1214V \_ P \_ \_ V \_ \_

1216V \_ P \_ \_ V \_ \_

1606V \_ P \_ \_ V \_ \_

1608V \_ P \_ \_ V \_ \_

1610V \_ P \_ \_ V \_ \_

1612V \_ P \_ \_ V \_ \_ 1614V \_ P \_ \_ V \_ \_

1616V \_ P \_ \_ V \_ \_

# PANEL SELECTION

### Optima® Vector® **Panels**

2' x 4'	2' x 6'	2' x 8'	
Item 3908 (Ctns)	Item 3906 (Ctns)	Item 3907 (Ctns)	
1	-	_	
1	-	-	
1	-	_	
2	-	-	
2	-	-	
2	_	_	
1	2	-	
2	2	-	
2	2	_	
2	3	_	
2	3	_	
3	3	_	
2	-	2	
2	_	2	
2	-	2	
3	-	3	
3	_	3	
3	_	3	

# PLANKS CLOUD SHAPE AND SIZE SELECTION

# 24" x 48" Panels

8' x 6'	12' x 6'	16' x 6'
8' x 8'	12' x 8'	16' x 8'
8' x 10'	12' x 10'	16' x 10'
8' x 12'	12' x 12'	16' x 12'
01 v 141	101 v 141	16' x 14'
8' x 14'	12' x 14'	10 X 14

12' x 16'

# 24" x 72" Panels

			l
12'	v F	31	
12	^ (		
			ı
			l
			ı













24" x 96" Panels

16' x 6'

16' x 8'

16' x 10'

16' x 12'

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16' x 16'

Printed in the United States of America





8' x 16'

# FORMATIONS™ Cloud Kits for Drywall

Formations™ Drywall Clouds - 10' x 14' with 6" Axiom® one-piece Drywall Trim

This pre-engineered drywall cloud kit looks great every time.

# **KEY SELECTION ATTRIBUTES**

- · Pre-cut suspension system components, perimeter trim, and easy-to-adjust aircraft hanging cables make assembly and installation fast and easy
- · Perimeter trim integrates with 5/8" thick drywall (not included in kit)
- · Improved floating visual compared to black iron and hat channel built drywall clouds

# TYPICAL APPLICATIONS

- Auditoriums
- · Performance venues
- · Open plenum spaces

# **COLOR**



# STEP 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS

# **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number. Formations™ Drywall cloud kits are only compatible with 5/8" thick drywall.

Standard drywall cloud kits feature your choice of 2", 4", or 6" high Unfinished Axiom® Drywall Trim for easy on-site painting.

EXAMPLE:

# 0404D A1P6UF

4' x 4' 6" High Drywall Cloud

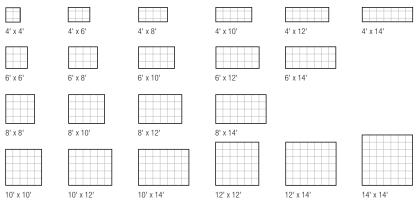
Axiom One-piece Drywall Unfinished

# **VISUAL SELECTION**

Cloud Size	Suspension Kit Item No. (Axiom Trim & Suspension System)	Cloud Size	Suspensi Kit Item (Axiom Trim & Suspension S
Drywall	1-1/2" Drywall Grid	 Drywall	1-1/2" Dryw
4' x 4'	0404DA1P_ UF	8' x 8'	0808DA1
4' x 6'	0406DA1P_ UF	8' x 10'	0810DA1
4' x 8'	0408DA1P_ UF	8' x 12'	0812DA1
4' x 10'	0410DA1P_ UF	8' x 14'	0814DA1
4' x 12'	0412DA1P_ UF	10' x 10'	1010DA1
4' x 14'	0414DA1P_ UF	10' x 12'	1012DA1
6' x 6'	0606DA1P_ UF	10' x 14'	1014DA1
6' x 8'	0608DA1P_ UF	12' x 12'	1212DA1
6' x 10'	0610DA1P_ UF	12' x 14'	1214DA1
6' x 12'	0612DA1P_ UF	14' x 14'	1414DA1
6' x 14'	0614DA1P_ UF		

Cloud Size	Suspension Kit Item No. (Axiom Trim & Suspension System)	
Drywall	1-1/2" Drywall Grid	
8' x 8'	0808DA1P_ UF	
8' x 10'	0810DA1P_ UF	
8' x 12'	0812DA1P_ UF	
8' x 14'	0814DA1P_ UF	
10' x 10'	1010DA1P_ UF	
10' x 12'	1012DA1P_ UF	
10' x 14'	1014DA1P_ UF	
12' x 12'	1212DA1P_ UF	
12' x 14'	1214DA1P_ UF	
14' x 14'	1414DA1P_ UF	

# DRYWALL CLOUD SHAPE AND SIZE SELECTION



# FORMATIONS™ with DC FLEXZONE™ Suspension Systems

**Acoustical Clouds** 





This pre-engineered acoustical cloud is integrated with DC FlexZone™ suspension system, Axiom® trim, and DC lighting control system.

# **KEY SELECTION ATTRIBUTES**

- · Ideal for open plenum spaces or acoustically challenged space.
- · Clouds reduce acoustical reverberation time and noise levels while increasing speech
- Formations™ cloud kits include aircraft cables and  $\mathsf{StrongBack}^{\scriptscriptstyle\mathsf{TM}}$  suspension system for reduced suspension visibility and improved floating visual

# TYPICAL APPLICATIONS

· Sustainable buildings of all types

# **COLOR**



White (WH)

# STEP 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS

## **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number, the panel item number you select, and any lighting or control options you choose to include.

Standard DC FlexZone clouds feature DC FlexZone 9/16" Suprafine® or Silhouette® 1/4" Reveal suspension system and your choice of 4" or 6" high Axiom® Vector® Trim.

## EXAMPLE: DC1014

U	U	ı	U	ı	4
					_

10' x 14' Silhouette® XL Cloud 1/4" Reveal

TSL

AV4 4" High Axiom Vector® Trim

Also order Ultima® Panel Kit: 1912 (24" x 24"

Order compatible lighting, power supply, cables, and controls through DC FlexZone partner sites.

# VISUAL SELECTION

Cloud	Suspension Kit Item No.
Size	(Axiom Trim &
(Feet)	Suspension System)

(1 001)	Suspension System)	
DC FlexZone™	9/16" Silhouette™ XL 1/4" Reveal	9/16" Suprafine™ XL
6' x 6'	DC0606TSLAV _	DC0606TSFAV _
6' x 8'	DC0608TSLAV _	DC0608TSFAV _
6' x 10'	DC0610TSLAV _	DC0610TSFAV _
6' x 12'	DC0612TSLAV _	DC0612TSFAV _
6' x 14'	DC0614TSLAV _	DC0614TSFAV _
8' x 8'	DC0808TSLAV _	DC0808TSFAV _
8' x 10'	DC0810TSLAV _	DC0810TSFAV _
8' x 12'	DC0812TSLAV _	DC0812TSFAV _
8' x 14'	DC0814TSLAV _	DC0814TSFAV _
10' x 10'	DC1010TSLAV _	DC1010TSFAV _
10' x 12'	DC1012TSLAV _	DC1012TSFAV _
10' x 14'	DC1014TSLAV _	DC1014TSFAV _

## PANEL SELECTION

Optima® Tegular Panels	Ultima Tegular Panels
Item 3251 (Ctns)	Item 1912 (Ctns)
1	1
1	1
1	2
1	2
1	2
1	2
1	2
1	2
2	3
1	3
2	3
2	3

# DC FLEXZONE CLOUD SHAPE AND SIZE SELECTION



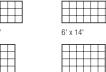








10' x 10'



10' x 12'



**CEILING & WALL SOLUTIONS** 



# FORMATIONS™ with DC FLEXZONE™ Suspension Systems

**Acoustical Clouds** 

# DC FLEXZONE™ COMPATIBLE POWER SUPPLY, CABLES, LIGHTING, AND CONTROLS

Cloud Size (Feet)	Power Supply <sup>1</sup>	Power Cables <sup>2</sup>	Lights <sup>3</sup>	Controls
DC FlexZone	(Qty)	(Qty)		
6' x 6'	1	2	1	Design by Others
6' x 8'	1	2	1	Design by Others
6' x 10'	1	2	2	Design by Others
6' x 12'	1	2	2	Design by Others
6' x 14'	1	2	2	Design by Others
8' x 8'	1	2	2	Design by Others
8' x 10'	1	2	2	Design by Others
8' x 12'	1	2	2	Design by Others
8' x 14'	1	3	3	Design by Others
10' x 10'	1	2	2	Design by Others
10' x 12'	1	4	4	Design by Others
10' x 14'	1	4	4	Design by Others



### ISTERED

- 1 Recommend specifying a Roal Electronics 4-channel Safe Energy Server.
- 2 Recommend specifying TE Connectivity 10' power feed cable assemblies.
- 3 Recommend specifying this quantity of lighting fixtures, each with a 5' TE load device cable assembly.
- \* All electrical devices shall be ordered from the electrical manufacturer and through normal electrical distribution channels.

All electrical items and quantities are strictly recommendations. All electrical devices shall be Armstrong®.

DC FlexZone™ suspension system compatible. Armstrong Ceilings does not warrant, and assumes no liability for the accuracy, completeness, or performance of another manufacturer's product. The Specifier is advised to consult with a duly licensed engineering or lighting designer in the particular locale of the installation to assume compliance with all legal requirements for the electrical design and layout.

For sample DC FlexZone for Formations layouts with compatible lighting and controls, visit www.armstrongceilings.com/formations

# DC FLEXZONE COMPATIBLE PARTNERS

Products from each of the categories below need to be specified and ordered separately for a complete DC FlexZone Formations™ Cloud. Armstrong Ceilings provides the DC FlexZone suspension system and ceiling panels.

es		
Lithonia Lighting®  AC Series LED — 24" x 24", 24" x 48"  T Series LED — 24" x 24", 24" x 48"  RT Series LED — 24" x 24", 24" x 48"  VT Series LED — 24" x 24", 24" x 48"  AL Series LED — 24" x 24", 24" x 48"  Shadow Box Square Series LED  — 24" x 24", 24" x 48"  DoM™ Downlight		
rescent ™ – 24" x 24", 24" x 48 M – 24" x 24", 24" x 48 tra – 272 / 274 us HE 282/284		
energy Server		
er Supply Module		

The other product categories are provided by our DC FlexZone compatible partners through their normal electrical channels. For more information on DC FlexZone compatible partners' products, visit www.armstrongceilings.com/dcflexzone.

Lighting Partners	Lighting Fixtures
JLC Tech	<b>LED</b> T-BAR LED Smartlight™ — 24" and 48"
Osram Sylvania	Recessed LED RLC22 - 24" x 24" RLS22 - 24" x 24"
Philips Day-Brite	Recessed Fluorescent SofTrace - 24" x 24" Attune - 24" x 48"
Philips Lightolier	Fluorescent Downlight Calculite® 6" Downlight

DC FlexZolle	Companible	Cable	Partifiers

TE Connectivity	5, 10, 15, 20, 25, 30
•	Foot Power Feed Cables

**Encelium** 

**Acuity Brands** 

Crestron

Ideal

All company, product names, and trademarks are property of their respective owners.





# **VISUAL SELECTION**

Item No. ◆	Dimensions (Inches)	Colors	Pcs./Ctn.	
INFUSIONS® Accent Canopies – 48" x 120" Panel Kits				
54101	48 x 120 x 5/8"	See page 54 for color options	1	
54102	48 x 120 x 5/8"	See page 54 for color options	2	
Kit: Flat Infusions panel (1 or 2) with nominal 48" Aluminum Extrusions (2 per panel) attached; cables to form arcs (30° or 50°)				

## INFUSIONS Accent Canopies - 24" x 60" and 24" x 72" Panel Kits

54051	24 x 60 x 1/4"	See page 54 for color options	1
54052	24 x 60 x 1/4"	See page 54 for color options	2
54061	24 x 72 x 1/4"	See page 54 for color options	1
54062	24 x 72 x 1/4"	See page 54 for color options	2

Kit: Flat Infusions panel (1 or 2) with nominal 24" Aluminum Extrusions (2 per panel) attached; cables to form arcs (60° or 90°)

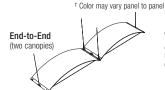
◆ When specifying or ordering, include the appropriate 3-letter suffix (e.g. 54051 C H T)

Hundreds of Ways to Suspend and Link Infusions Accent Canopies from Ceilings and Walls

8', 16', 30' hanging kits; dual canopy kits







Playful Infusions® accent canopies come in a variety of translucent textures and finishes to create custom looks with standard kits.

## KEY SELECTION ATTRIBUTES

- · Mix and match sizes and shapes to define spaces
- · Standard components allow you to create custom configurations
- · Strong, impact-resistant edges
- Installation is fast and simple no special tools required

# 24" X 60", 24" X 72" COLORS (partial list)

For all colors see pg. 70

Due to printing limitations, shade may vary from actual product.

### Channeled

**Patterns** 

Honey

Canvas (THC)

Inspiration

Ice (TNC)





(CHM)



Sunset\*

(CHS)



Caribbean (CHT) (CHC)

Spun Copper Linen Gold (TLG)



Crystalline Silverado (TSV)

(CHF)



(TSC)

White Circlets







Sky (TSY) (TCF) (TWC) Solids

(TSH)





Saffron Energy Red Fire

Iris (TSI) (TSE) (TRF) \* Also availbale in 48" x 120" canopies

Wall Attachment Anchors canopies side-by-side or linking canopies to wall



# PHYSICAL DATA

# Material

Polycarbonate

Surface Finish - Smooth

## Fire Performance

Infusions® accent canopies have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

## **Design Considerations**

Do not cut holes in or drill through Infusions® Accent Canopies. Doing so may cause the panel to bend in an irregular fashion.

Infusions panels are not approved for exterior application.

## **Installation Considerations**

Do not allow the edges of the shapes to get wet or be exposed to moisture. Infusions® accent canopies can be damaged by exposure to high temperatures. The temperature of the shapes should not be permitted to exceed  $100^{\circ}F$ .

Follow the guidelines below for minimum distance from standard light sources.

LAMP TYPE	LABEL WATTAGE	MINIMUM DISTANCE
Halogen FL XL PAR 30	60	14"
Incandescent Bulb	120	15"
Quartz Halogen Work Light	500	23"

Additional light transmission information is available at armstrongceilings.com/infusions

Use the assembled canopy weights provided in this table to select mounting hardware that will meet this requirement

MATERIAL	24" x 60"	24" x 72"	48" x 120"	
Solid Polycarbonate	21 lbs	25 lbs	N/A	
Channeled Polycarbonate	6 lbs	7 lbs	26 lbs	

## Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

## Suspension System

Canopy-specific hardware must be ordered based on your design plan. For details and some design guidelines, contact TechLine or visit armstrongceilings.com/infusions.

Warranty Details at armstrongceilings.com

## Weight; Pieces/Carton

	24" x 60"	24" x 60"	24" x 72"	24" x 72"	48" x 120"	48" x 120"
PANEL MATERIAL			2 pcs/ctn		2 pcs/ctn	1 pc/ctn
Solid Polycarbonate	42 lbs	21 lbs	50 lbs	25 lbs	N/A	N/A
Channeled Polycarbonate	12 lbs	6 lbs	14 lbs	7 lbs	52 lbs	26 lbs
ACCESSORY KITS						
7004 - 0.3 lbs	7006 - 0.1	lbs	7008 - 0.4	lbs	7010 - 0.7 lb:	S
7005 - 0.5 lbc	7007 - 0.2	lhe	7000 - 0.2	lhe		

All other accessory kits weigh less than 1 lb each.



TechLine / 1 877 276-7876 armstrongceilings.com/infusions (search: infusions canopies) BPCS-5145-517

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# M INFUSIONS® Shapes

# Accent Clouds



Dimensions (Inches)

Nominal

48 x 48 x 4"

(Nominal)

48 x 48 x 4"

(Nominal)

These floating clouds are available in a variety of translucent colors and four standard shapes.

# **KEY SELECTION ATTRIBUTES**

- · Add dramatic visual impact with multiple shapes or create a small accent area
- · Wide variety of colors to fit any design aesthetic
- · Unique shape designs can create a variety of visuals depending on the configuration or angle of installation
- · Class A fire performance
- · Seismic tested and approved

COLORS (partial list) For all colors see pg. 70. Due to printing limitations, shade may vary from actual product.





Playful



Almond

(TAA)

Joyful

Jelly

(TJJ)





Ruby (TOR)

Sensitive

Shadow

(TVS)

Item

No. ◆

7159\_ \_

Modern Mandarin (TMM)

Sincere

Seafoam

(TCM)

Peach (TPP)

Versatile

Violet

(TVV)

Dimensions (Inches)

(TGG)

Reef

Gleeful

Green

Proud Pumpkin (TOP)

Refined Refined Lagoon

# PANEL OPTIONS

INFUSIONS® Shapes

Circle

Curved Square

Item

No. ◆

7157\_\_

## **PERFORMANCE**

Class A

Class A

Fire Rating Warranty	

1-Yr

1-Yr

# INFUSIONS® Shapes

PANEL OPTIONS

Oval
Curved Rectangle



Nominal



(Nominal)

Fire Rating

**PERFORMANCE** 

Warranty

Class A 1-Yr



## SUSPENSION COMPONENTS

Item Number	Description	Color	Pcs./Ctn.
7149	Infusions Shapes	Metal	1 kit
	Hanging Kit **		

** Each Shapes Hanging Kit includes four hanging assemblies and is shipped with shapes. Use one kit for each shape.
---

# ACCESSORIES (OPTIONAL)

Item Number Description		
625530	25530 Extended Hanging Cables – (4) 30' Cables	
7006	Escutcheon Kit – Used when hanging shape below an existing ceiling; two kits needed per shape.	

# PHYSICAL DATA

Material Polycarbonate

Surface Finish

# Fire Performance

Infusions® Shapes accent clouds have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

**Design Considerations**Infusions® Shapes accent clouds are not approved for exterior application.

**Installation Considerations**Do not allow the edges of the shapes to get wet or be exposed to moisture.

Any fixtures adjacent to Infusions® Shapes accent clouds must be independently supported. There is potential for limited natural deflection of panels.

Infusions® Shapes accent clouds can be damaged by exposure to high temperatures. The temperature of the shapes should not be permitted to exceed 100°F.

Follow these guidelines for minimum distance from standard light sources MINIMUM

LABEL LAMP TYPE WATTAGE DISTANCE Halogen FL XL PAR 30 60 14" 15" 23' Incandescent Bulb Quartz Halogen Work Light 120 500

 $\label{light transmission information} \begin{tabular}{ll} Additional light transmission information is available at armstrongceilings.com/infusions \end{tabular}$ 

# Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

Details at armstrongceilings.com

Weight; Pieces/Carton Bulk packaged per order



<sup>◆</sup> When specifying or ordering, include the appropriate 3-letter suffix (e.g., 7156 T O R)

<sup>\*</sup> Must be purchased in multiples of two

# SERPENTINA® Classic and Semi-Concealed

# **Curved Metal Clouds**



Pre-engineered 3D curved metal ceiling system adds drama and acoustical performance with major impact.

# **KEY SELECTION ATTRIBUTES**

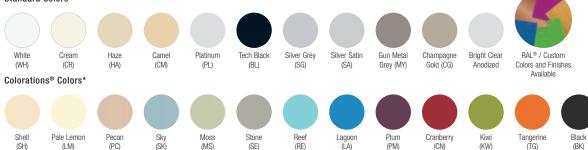
- · More main beam options for maximum design flexibility; available in both "Hills" and "Valleys" with 15/16" or 9/16" suspension system
- XL®2 butt-cut cross tee end detail for a faster installation
- · Armstrong® standard panel colors; custom RAL® colors available
- · Extruded aluminum components and hot-dipped galvanized steel with stainless steel clips provide maximum corrosion resistance
- · Serpentina® perforated clouds installed with acoustical infill panels provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from both the front and back surfaces
- · 30-Year Limited System Warranty (1-Year Limited System Warranty for Pool Installations)



Serpentina clouds for pools are available in 15/16" Classic and Semi-concealed. Acoustical infill panels are available if required. Contact TechLine or your local Armstrong Ceilings representative for questions related to pool applications.

COLORS Due to printing limitations, shade may vary from actual product.

# **Standard Colors**



<sup>\*</sup> For Colorations and custom colors, contact Armstrong Customer Service at 1-877-276-7876 and select options 1-1-2.

# PERFORATION OPTIONS



UPA Unperforated



R042 Perfs: 3/64" Dia. @ 1/8" 0.C. Open area: 11% No border



Perfs: 1/16" Dia. @ 1/4" 0 C Open area: 6% No border



\*R250 Perfs: 1/4" Dia. @ 0.32" 0.0 Open area: 58% Nominal 3/4" border



Perfs: 3/8" Dia. @ 1-1/8" 0.C. Open area: 10% Nominal 3/4" border



Perfs: 3/16" Dia. @ 1" 0 C Open area: 4% Nominal 3/4" border



\*\*\*\*H250 Perfs: 1/4" width @ .281 Staggered Open area: 79% Nominal 3/4" horder



Perforations Available

- \*\* Laminated acoustical fleece is not available for use in Pool Applications or on perforated Panels R125, S500, R250, H250, Diamond Sheer, and Diamond Louver due to open cell percentage. For acoustical correction in pool installations, specify 24" x 24" poly bags.
- Tech Black, Fine Fissured™ panels, laminated to the back of Serpentina perforated metal panels, provide a matching visual for flat areas adjacent to, or within, a Serpentina ceiling. Available for R188, R375, and S375.
- \*\*\*\* H250 Perforation meets NFPA guidelines for sprinkler systems.



\*\*\*\$250 Perfs: 1/4" x 1/4" @ 3/4" O.C. Open area: 11% Nominal 3/4" border



\*\*\*S375 Perfs: 3/8" x 3/8" @ 1-1/8" O.C. Open area: 11% Nominal 3/4" horder



\*\*S500 Perfs: 1/2" x 1/2" @ 5/8" O.C. Open area: 64% Nominal 3/4" horder



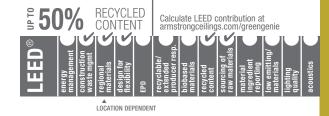
\*\*R125 Perfs: 1/8" Dia @ 3/16" O.C. Open area: 41% Nominal 3/4" horder





TechLine 877 276-7876 armstrongceilings.com/serpentina

# SERPENTINA® Classic and Semi-Concealed Curved Metal Clouds



# SERPENTINA® SUSPENSION SYSTEM

Ite	em No. ◆	Arc	Dim. "A"	Dim. "B"	Dim. "C"		Item No. ◆	Arc	Dim. "A"	Dim. "B"	Dim. "C"
10	)225	22.5	9' 11-1/4"	25' 5-9/16"	0' 5-7/8"		6375	37.5	5' 10-3/4"	9' 2"	0' 5-13/16"
10	030	30	9' 10-5/8"	19' 1-3/16"	0' 7-13/16"		645	45	5' 10-1/8"	7' 7-11/16"	0' 7-1/16"
10	375	37.5	9' 9-7/8"	15' 3-5/16"	0' 9-3/4"		6525	52.5	5' 8-3/4"	6' 6-9/16"	0' 8-1/8"
10	)45	45	9' 8-7/8"	12' 8-13/16"	0 11-3/8"		660	60	5' 8-3/4"	5' 8-3/4"	0' 9-5/16"
10	0525	52.5	9' 7-7/8"	10' 10-15/16"	1' 1-1/2"		675	75	5' 7"	4' 7"	0' 11-3/8"
10	060	60	9' 6-9/16"	9' 6-9/16"	1' 3-5/8"		690	90	5' 4-1/2"	3' 9-13/16"	1' 1-7/16"
10	)75	75	9' 3-5/8"	7' 7-11/16"	1' 6-15/16"		4075	7.5	3' 11-15/16"	30' 6-5/8"	0' 0-13/16"
10	90	90	9' 0"	6' 4-3/8"	1' 10-3/8"		415	15	3' 11-7/8"	15' 3-3/8"	0' 1-9/16"
81	5	15	7' 11-3/4"	30' 6-11/16"	0' 3-18"		4225	22.5	3' 11-11/16"	10' 2-1/4"	0' 2-5/16"
82	225	22.5	7' 11-3/8"	20' 4-7/16"	0' 4-3/4"		430	30	3' 11-3/8"	7' 7-11/16"	0' 3-1/8"
83	80	30	7' 10-7/8"	15' 3-3/8"	0' 6-1/4"		4375	37.5	3' 11-1/8"	6' 1-3/8"	0' 3-7/8"
83	375	37.5	7' 10-5/16"	12' 2-11/16"	0' 7-3/4"		445	45	3' 10-3/4"	5' 1-1/8"	0' 4-5/8"
84	15	45	7' 9-9/16"	10' 2-1/4"	0' 9-7/16"		4525	52.5	3' 10-5/16"	4' 4-3/8"	0' 5-3/8"
85	i25	52.5	7' 8-11/16"	8' 8-3/4"	0' 10-13/16"		460	60	3' 9-7/8"	3' 9-13/16"	0' 6-1/16"
86	60	60	7' 7-11/16"	7' 7-11/16"	1' 0-7/16"		475	75	3' 8-1/2"	3' 0-5/8"	0' 7-1/2"
87	75	75	7' 5-5/16"	6' 1-5/16"	1' 3-3/16"		490	90	3' 7-1/4"	2' 6-9/16"	0' 8-13/16"
89	00	90	7' 2-7/16"	5' 1-1/8"	1' 5-7/8"	Perimeter '	Trim				
61	5	15	5' 11-13/16"	22' 11"	0' 2-3/8"		4STR	N/A	N/A	N/A	N/A
62	225	22.5	5' 11-9/16"	15' 3-3/8"	0' 3-9/16"		6STR	N/A	N/A	N/A	N/A
63	80	30	5' 11-3/16"	11' 5-1/2"	0' 4-9/16"		8STR	N/A	N/A	N/A	N/A

 $\bullet$  When specifying or ordering, add the appropriate perforation and color suffixes

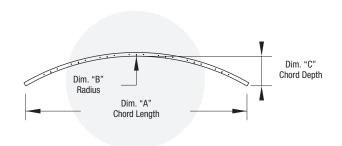
For additional information and accessories, see brochure BPCS-3960. CAD drawings available on armstrongceilings.com/serpentina



Serpentina main beams are identified by arc length. For example, a 690 hill main beam has a 5' 4-1/2" chord length and will occupy 5' 4-1/2" of ceiling area.



NOTE: 9/16" suspension uses 24" x 24" panels only, and is not available for pool applications.



N/A N/A N/A

N/A

# PHYSICAL DATA

Extruded aluminum curved main beams and hot-dipped galvanized steel Prelude® or Suprafine® cross tees. Pool applications receive aluminum Prelude cross tees with stainless steel clips.

# Main Beam Load Test Data

Hanger Spacing (Lbs/LF) (Applies to straight 15/16" face sections only) 42" - 18.66 48" - 10.80

Cross\_Tee/Main Beam Interface

# End Detail Staked-on clip

# Panel Sizes

24" x 48" and 24" x 72" semi-concealed metal panel options; 24" x 24", 24" x 48", and 24" x 72" lay-in panel options (select panel types perforated and unperforated).

Design Considerations 9/16" suspension systems use 24" x 24" panels only, (9/16" suspension systems are not available for pool applications.)

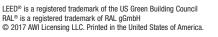
Seismic Requirements
Refer to ASCE 7-10 for seismic requirements.

# **Acoustical Options**

By adding optional poly-bagged fiberglass or laminated fleece backing, you can achieve a greater acoustical performance in your design. No ASTM test exists for curved configurations.

Fire Performance Metal: Class A

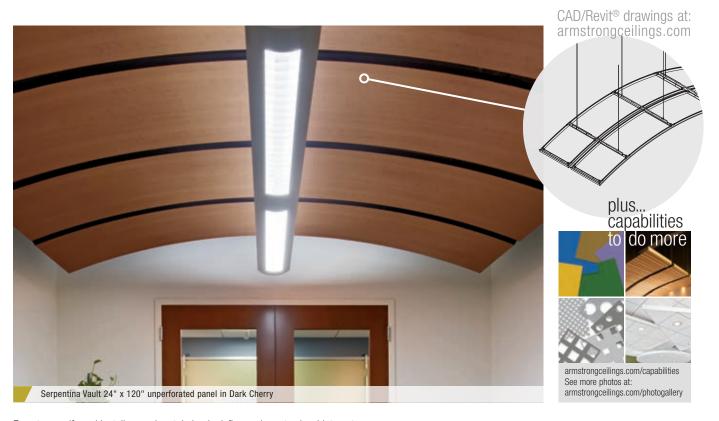
10STR





# SERPENTINA® Vault

# **Curved Metal Clouds**



Easy-to-specify and install curved metal clouds define and create visual interest.

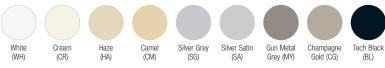
# **KEY SELECTION ATTRIBUTES**

- · Install with fewer cables for a dramatic floating visual
- · Wide variety of finishes available
- · Pre-engineered and shipped ready to install (no field modification necessary)
- Panels available in 24" x 72", 24" x 96", 24" x 120", and 24" x 144"
- Available in 15°, 30°, 45°, 60°, 75°, and 90° arcs
- · Aircraft cable, vault spacer support, and hardware shipped as part of kit

· Serpentina® perforated clouds installed with acoustical infill panels provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from both the front and back surfaces

· 30-Year Limited System Warranty

# Standard Colors



# Wood Looks Architectural Film Colors (not available perforated)



# COLORATIONS® COLORS\*

Due to printing limitations, shade may vary from actual product.



# PERFORATION OPTIONS







Perfs: 1/16" Dia. @ 1/4" O.C. Open area: 6% No border







RAL® / Custom Colors and Finishes Available



Open area: 11%

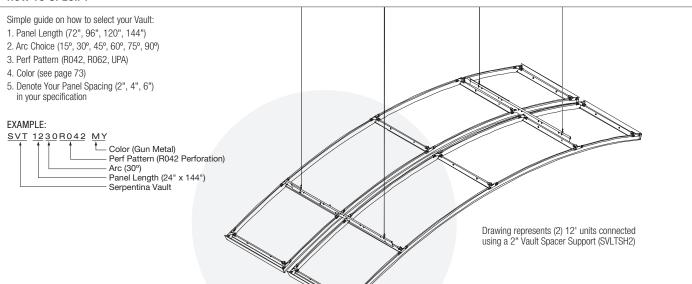
No border

# SERPENTINA® Vault

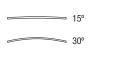
# Curved Metal Clouds

# Calculate LEED contribution at armstrongceilings.com/greengenie LOCATION DEPENDENT

# **HOW TO SPECIFY**



# **ARC CHOICES**







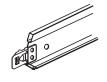
PAN	ELS			
Sizes	3			
24" x	72"			
24" x	96"			
24" x	120"			
24" x	144"			

<b>PANEL SPACING</b> Create 2", 4", or 6" spacing between panels (include in your specification)					
Item No.	Description				
SVLTSH2	2" Vault Spacer Support				
SVLTSH4	4" Vault Spacer Support				
SVLTSH6	6" Vault Spacer Support				

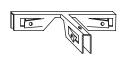
# SERPENTINA® VAULT COMPONENTS







2' Prelude® Cross Tee (15/16")



GC3W Grip Clip 3-Way



Aircraft Cable and Hardware

# PHYSICAL DATA

Extruded aluminum main beams and hot-dipped galvanized steel cross tees.

**Tech**Line<sup>SM</sup> / 1 877 276-7876

BPCS-3621-517

armstrongceilings.com/commercial (search: serpentina)

**Fire Performance**Metal is ASTM E84 Class A per IBC Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

Seismic Requirements
Refer to ASCE 7-10 for seismic requirements

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30-Year Limited System Warranty



# SERPENTINA® Waves™

# **Curved Metal Clouds**



Serpentina® Waves™ curved metal cloud kits combine easy installation with striking visual power.

# **KEY SELECTION ATTRIBUTES**

- · Wide variety of finishes
- 30-Year Limited System Warranty
- · 60 pre-engineered kits that are easy to specify and install
- · Panel lengths available up to 144"
- Serpentina® Waves  $^{\scriptscriptstyle\mathsf{TM}}$  perforated clouds installed with acoustical infill panels provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from both the front and back surfaces





(KW)

(TG)

at armstrongceilings.com/serpentina

 $\pmb{COLORS^{\star}} \quad \text{Due to printing limitations, shade may vary from actual product.}$ 

# **Standard Colors**



# Wood Looks Architectural Film Colors (not available perforated)



# COLORATIONS® COLORS\*

Due to printing limitations, shade may vary from actual product.



Black

(BK)

\* For Colorations, and custom colors, contact Armstrong Customer Service at 1-877-276-7876 and select options 1-1-2 For Installation Considerations and Physical Data, see BPCS-3948

# SERPENTINA® WAVES™ METAL INFILL PANELS



\*\*R042 Perfs: 3/64" Dia. @ 1/8" O.C. Open area: 11%



@ 1/4" 0.C.

Open area: 6%

@ 1-1/8" O.C.

Open area: 11%





\*\*R250 Perfs: 1/4" Dia. @ 0.32" 0.0. Open area: 58%



\*\*\*R188 Perfs: 3/16" Dia. @ 1" 0.C. Open area: 4%



Perfs: 3/8" Dia. @ 1-1/8" 0.0

Open area: 9%

Nominal 1" border on panel length



@ 3/4" O.C.

Open area: 11%

\*\*S250 Perfs: 1/4" x 1/4" Perfs: 3/8" x 3/8"





Open area: 64%



Unperforated

\*\*CR125 Perfs: 1/8" @ 21/64" O.C. Open area: 13% No border



Unperforated Corrugated Panel

Nominal 1" border on panel length



\*\*\* Acoustical fleece comes standard



RAL® / Custom

Colors and Finishes

Available

# SERPENTINA® Waves™

# **Curved Metal Clouds**

# Calculate LEED contribution at armstrongceilings.com/greengenie

# SERPENTINA® WAVES™ COMPONENTS

Description	Item No. ◆	Description	
Main Beam (15/16")	SPTSPLICE	Serpentina Splice Plate	<b>⊗</b> ⋄ <b>⊗</b>
1' - 12' Straight Trim	AX-SPT-HD	C Serpentina Trim Hold Down Clip	- P
Curved Trim	SCYT24MR	Cross tee that connects main heams	
Serpentina® StrongBack™ System	SCXT24SP1	Cross tee that connects main beams to perimeter trim	
Serpentina Outside Corner Post	SPTCS4-12	Serpentina Waves Connector Sleeves	
Serpentina Trim Twist Clip		Serpentina Semi-Concealed Splice Clip (3 per panel interface)	
	Main Beam (15/16")  1' - 12' Straight Trim  Curved Trim  Serpentina® StrongBack™ System  Serpentina Outside Corner Post	Main Beam (15/16")  1' - 12' Straight Trim  AX-SPT-HD  Curved Trim  SCXT24MR SCXT24SPT  Serpentina® StrongBack™ System  SCXT24SPT  SPTCS4-12  Speed Clip	Main Beam (15/16")  SPTSPLICE Serpentina Splice Plate  AX-SPT-HDC Serpentina Trim Hold Down Clip  Serpentina® StrongBack™ System  SCXT24MR SCXT24SPT Cross tee that connects main beams to perimeter trim Cross tees that connects main beams to perimeter trim to perimeter trim to perimeter trim (2' wide modules)  SPTCS4-12 Serpentina Waves Connector Sleeves  Speed Clip Serpentina Semi-Concealed Splice Clip

<sup>◆</sup> Indicate appropriate Serpentina Waves Kit number

tem No. ◆	Hill (SH)	Valley (SV)	Hill/Valley Combo (SW)	Arc Degree	Description	Direction of Arc/ Size/Type
SH300404	•			30	Hill with 30° arc	
SH450404	•			45	Hill with 45° arc	
SV300404		•		30	Valley with 30° arc	
SV450404		•		45	Valley with 45° arc	4' x 4'
SH300604	•			30	Hill with 30° arc	
SH450604	•			45	Hill with 45° arc	
SV300604		•		30	Valley with 30° arc	
SV450604		•		45	Valley with 45° arc	6' x 4'
SH300804	•			30	Hill with 30° arc	
SH450804	•			45	Hill with 45° arc	
SV300804		•		30	Valley with 30° arc	
SV450804		•		45	Valley with 45° arc	
SW300804			•	30	Hill/Valley with 30° arc	
SW450804			•	45	Hill/Valley with 45° arc	8' x 4'
SH301004	•			30	Hill with 30° arc	
SH451004	•			45	Hill with 45° arc	
SV301004		•		30	Valley with 30° arc	
SV451004		•		45	Valley with 45° arc	10' x 4'

Serpentina Hill/Valley Combo Kit

Degree of Arc Size of the Cloud Perforation Option Color Selection

# SERPENTINA® Waves™

**Curved Metal Clouds** 

# Calculate LEED contribution at armstrongceilings.com/greengenie

<u>.</u>	
-₩ DE	F



tem No. ◆	Hill (SH)	Valley (SV)	Hill/Valley Combo (SW)	Arc Degree	Description	Direction of Arc/ Size/Type
		(30)	(311)		·	Эігел туре
H301204	•			30	Hill with 30° arc	
H451204	•			45	Hill with 45° arc	
V301204		•		30	Valley with 30° arc	
SV451204		•		45	Valley with 45° arc	
SW301204			•	30	Hill/Valley with 30° arc	
W451204			•	45	Hill/Valley with 45° arc	12' x 4'
SH300406	•			30	Hill with 30° arc	
H450406	•			45	Hill with 45° arc	
SV300406		•		30	Valley with 30° arc	
V450406		•		45	Valley with 45° arc	4' x 6'
H300606	•			30	Hill with 30° arc	
H450606	•			45	Hill with 45° arc	
V300606		•		30	Valley with 30° arc	
SV450606		•		45	Valley with 45° arc	6' x 6'
H300806	•			30	Hill with 30° arc	
SH450806	•			45	Hill with 45° arc	
SV300806		•		30	Valley with 30° arc	
SV450806		•		45	Valley with 45° arc	
SW300806			•	30	Hill/Valley with 30° arc	
SW450806			•	45	Hill/Valley with 45° arc	8' x 6'
SH301006	•			30	Hill with 30° arc	
SH451006	•			45	Hill with 45° arc	
SV301006		•		30	Valley with 30° arc	
SV451006		•		45	Valley with 45° arc	10' x 6'
SH301206	•			30	Hill with 30° arc	
SH451206	•			45	Hill with 45° arc	
SV301206		•		30	Valley with 30° arc	
SV451206		•		45	Valley with 45° arc	
SW301206			•	30	Hill/Valley with 30° arc	
SW451206			•	45	Hill/Valley with 45° arc	12' x 6'
SH300408	•			30	Hill with 30° arc	
6H450408	•			45	Hill with 45° arc	
SV300408				30	Valley with 30° arc	
					·	
SV450408		•		45	Valley with 45° arc	4' x 8'
SH300608	•			30	Hill with 30° arc	
SH450608	•			45	Hill with 45° arc	
SV300608		•		30	Valley with 30° arc	
SV450608		•		45	Valley with 45° arc	6' x 8'
						O X O
SH300808 SH450808 SH450808 SH450808 SH450808 SH450808_ SH450808_	•			45	Hill with 30° arc Hill with 45° arc	
SV300808				30	Valley with 30° arc	
		•				
SV450808		-		45	Valley with 45° arc	
W300808			-	30	Hill/Valley with 30° arc	01 01
SW450808 SH301008				45	Hill/Valley with 45° arc Hill with 30° arc	8' x 8'
				30		
SH451008	•			45	Hill with 45° arc	
SV301008		•		30	Valley with 30° arc	
SV451008		•		45	Valley with 45° arc	10' x 8'
SH301208				30	Hill with 30° arc	10 4 0
SH451208	•			45	Hill with 45° arc	
					Valley with 30° arc	
SV301208		•		30		
SV451208		•		45	Valley with 45° arc	
SW301208			•	30	Hill/Valley with 30° arc	401 01
W451208			•	45	Hill/Valley with 45° arc	12' x 8'





LOCATION DEPENDENT

# SERPENTINA® Waves™

**Curved Metal Clouds** 

# SERPENTINA® WAVES™ KITS

	Hill	Valley	Hill/Valley Combo	Arc		Direction of Arc/
em No. ◆	(SH)	(SV)	(SW)	Degree	Description	Size/Type
H300410	•			30	Hill with 30° arc	
H450410	•		-	45	Hill with 45° arc	
V300410		•		30	Valley with 30° arc	
V450410				45	Valley with 45° arc	
H300610				30	Hill with 30° arc	4' x 10'
H450610	<u> </u>			45	Hill with 45° arc	
V300610		•		30	Valley with 30° arc	
V450610		•		45	Valley with 45° arc	6' x 10'
H300810	•			30	Hill with 30° arc	
H450810	<u> </u>			45	Hill with 45° arc	
V300810		•		30	Valley with 30° arc	
V450810		•		45	Valley with 45° arc	
W300810			•	30	Hill/Valley with 30° arc	
W450810			•	45	Hill/Valley with 45° arc	8' x 10'
H301010	<u> </u>			30	Hill with 30° arc	
H451010	•			45	Hill with 45° arc	
V301010		•		30	Valley with 30° arc	
V451010		•		45	Valley with 45° arc	10' X 10'
H301210	•			30	Hill with 30° arc	10 7 10
H451210	•			45	Hill with 45° arc	
V201212		•		30	Valley with 30° arc	
V451212		•		45	Valley with 45° arc	
W301212			•	30	Hill/Valley with 30° arc	
W451212			•	45	Hill/Valley with 45° arc	12' x 10'
H300412	•			30	Hill with 30° arc	
H450412	•			45	Hill with 45° arc	
V300412		•		30	Valley with 30° arc	
SV450412				45	•	
					Valley with 45° arc	4' x 12'
SH300612	<u> </u>			30	Hill with 30° arc	
H450612	•			45	Hill with 45° arc	
V300612		•		30	Valley with 30° arc	
V450612		•		45	Valley with 45° arc	6' x 12'
H300812	•			30	Hill with 30° arc	0 7 12
H450812	•			45	Hill with 45° arc	
V300812		•		30	Valley with 30° arc	
V450812		•		45	Valley with 45° arc	
SW300812			•	30	Hill/Valley with 30° arc	
W450812			•	45	Hill/Valley with 45° arc	8' x 12'
H301012	•			30	Hill with 30° arc	
SH451012	•			45	Hill with 45° arc	
V301012		•		30	Valley with 30° arc	
V451012		•		45	Valley with 45° arc	
SH301212				30	Hill with 30° arc	10' x 12'
6H451212				45	Hill with 45° arc	
6V301212		-		30	Valley with 30° arc	
V451212		<u> </u>			Valley with 45° arc	
		•	•	45	Hill/Valley with 30° arc	
SW301212 SW451212			•	<u>30</u> 45	Hill/Valley with 45° arc	101 v 101
MT01414				40	Tilli/ valley with 45° alc	12' x 12'

Serpentina Hill/Valley Combo Kit Degree of Arc Size of the Cloud Perforation Option Color Selection

# **SOUNDSCAPES®**

# **Acoustical Canopies**



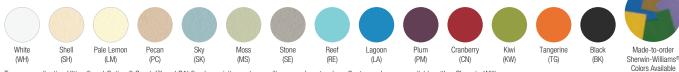
These shapely canopies enhance acoustics with spot absorption to define spaces.

# **KEY SELECTION ATTRIBUTES**

- · Hill and valley shapes available in multiple sizes
- · Adjustable to special heights
- · Energy-efficient, high light-reflectant surface (White only)
- · Embedded flush-mounted hardware system for clean look
- Coordinate with SoundScapes® Shapes, Metaphors® coffers, Infusions® accent canopies, lay-in panels, partitions, walls, Wings and Create!™ ceiling panels







To see coordinating Ultima® and Optima® Create!™ and RAL® colors, visit armstrongceilings.com/createcolors. Custom colors are available with a Sherwin-Williams 4-digit color code from the Duration® or Harmony® flat interior paint families (Code SW \_ \_ \_ \_ )

Valley - Hardware side

## **ELEVATION VIEWS** 36.00 36.00 24.00 24.00 48.000 48.00 hardware locations hardware locations 24.00 24.00 46.50 24.00 36.00 24.00 36.00 75.00 75.00

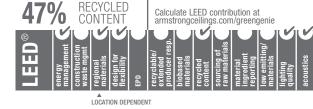
Hill - Hardware side

Valley - Hardware side

Hill - Hardware side

# SOUNDSCAPES®

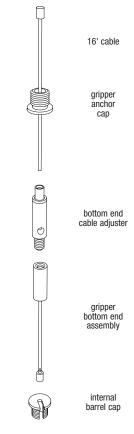
# **Acoustical Canopies**



# VISUAL SELECTION

# PERFORMANCE Dots represent high level of performance

VISUAL SELECTIO	IV		I LINI	UITIVIA	IVUL	Dots 16h	ii eseiit iii	igii ievei	or berro	iiiiaiice.
ltem No. ◆	Description	Dimensions (Inches)	Sabin/ Panel	Fire Rating	Light Reflect	Wash	Scratch	Soil	Recycled Content	Recycle Program
6258	Hill Canopy	46-1/2 x 75 x 1-1/4"	30	Class A	0.90	•	•	•	Std	•
6259	Valley Canopy	46-1/2 x 75 x 1-1/4"	30	Class A	0.90	•	•	•	Std	•
6260	Hill Canopy	36 x 36 x 1-1/4"	11.25	Class A	0.90	•	•	•	Std	•
6261	Valley Canopy	36 x 36 x 1-1/4"	11.25	Class A	0.90	•	•	•	Std	•
		when specifying or ordering (e pies, installation hardware, an								
ACCESSORIES										
ltem Number	Descript	iion								



gripper structure anchor

**Extended Hanging Cable** 

# PHYSICAL DATA

# Material

625530

7006

Mineral fiber pre-formed in canopy shape Panel Arc

Fixed 129" radius

# Surface Finish and Edge Detail DuraBrite® scrim on all sides, finished square edges

Fire Performance ASTM E84 Class A per IBC Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

SoundScapes® acoustical canopies, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

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Acoustical Performance (based on 48" x 72" canopy) 30 Sabin per panel using ASTM C423, or 78% more sound absorption than the same square footage of NRC 0.70 continuous ceilings

Escutcheon Kit - Used when hanging canopy below an existing ceiling;

Extended Hanging Cables - (4) 30' Cables

two kits needed per SoundScapes panel.

Design Considerations
SoundScapes® acoustical canopies cannot be cut, drilled, or altered in any way. Panels can be damaged by exposure to moisture, to high temperatures, and to high humidity. They are not approved for exterior application.

Canopies must be installed a minimum of 18" apart. Lipping may be visible in installations closer than 18".

Field painting may affect the acoustical and/or fire performance, is not recommended, and will void the product warranty.

Special care in installation and handling must be taken with color canopies to avoid surface damage to the paint finish. The SoundScapes cable hanging system must not hang from any commercial ceiling suspension system. The canopy must not be used to support any other material.

# Installation Considerations

Installation Considerations SoundScapes® acoustical canopies must remain in their cartons until ready to hang. They require two people to handle and install a panel safely. Do not remove the canopy edge protectors until the panel is installed. Canopies in colors other than White require additional care to reduce scuffing. See installation instructions on web site for details.

Seismic Restraint
Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

# Suspension System

Embedded, flush-mounted hardware system and aircraft cables provided in panel kits.

**Warranty** Details at armstrongceilings.com

Bulk packaged per order 6258, 6259 – 50 lbs per panel 6260, 6261 – 19.4 lbs per panel



# SOUNDSCAPES® Shapes

# **Acoustical Clouds**





Acoustics delivered via playful shapes and colors in standard and custom options.

# **KEY SELECTION ATTRIBUTES**

- Enhance acoustics in open areas
- · Aesthetically define spaces
- Standard flat panels in multiple sizes and shapes; custom shapes available
- Adjustable to various heights and angles
- 360° panel finishing capability available
- Quick and easy to install from a deck, through a ceiling, directly attached to drywall, on a standard suspension system, or on a wall
- Metaphors® coffers, Create!® ceiling panels, Infusions® accent canopies, lay-in panels, partitions, walls, and Wings available in coordinating colors

# $\textbf{COLORATIONS} \textbf{® COLORS} \quad \text{Due to printing limitations, shade may vary from actual product.}$



To see coordinating Ultima® and Optima® Createl™ panel colors and RAL® colors, visit armstrongceilings.com/createcolors.

Custom colors are available with a Sherwin-Williams 4-digit color code from the Duration® or Harmony® flat interior paint families (Code SW \_ \_ \_ \_ )

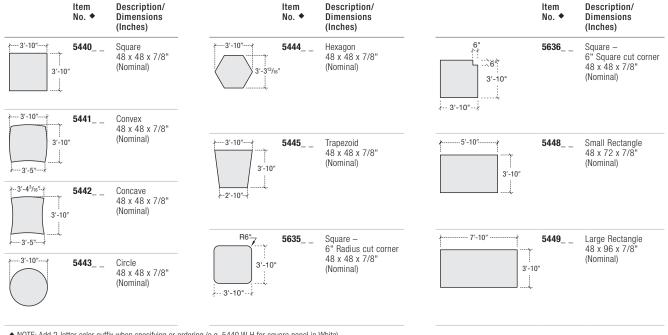


LOCATION DEPENDENT

# **Acoustical Clouds**

# $\begin{picture}(200,0)\put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100$

SOUNDSCAPES® Shapes

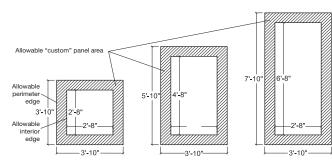


NOTE: Add 2-letter color suffix when specifying or ordering (e.g. 5440 W H for square panel in White).
 Concealed hardware with 360° finishing available on all shapes except Hexagon.

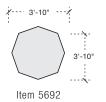
# **CUSTOM SHAPES**

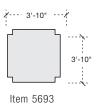
# Create your own shapes!

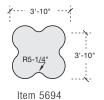
Simply carve your creation out of the allowable custom panel area (interior edge to perimeter edge) as instructed below and send a CAD file to TechLine. For assistance, call 1 877 276-7876.



# **DESIGN IDEAS**









# SOUNDSCAPES® Shapes

# **Acoustical Clouds**

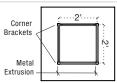
### ACCESSORY KITS Applications always require more than one ki

Item No. ◆	Description	Kit Contents
5450	Deck Hanging Kit Allows for suspending individual shapes or grouping frames from deck and bottom end adjustment of height at panel or frame level.	(2) gripper structure anchors (2) gripper structure caps (2) 8' aircraft cables (2) bottom end cable adjusters (2) nuts with washers
5438	Angled Hanging Kit (10° maximum angle) For use when hanging panels at different angles. Extends from the end of Deck Hanging Kit (5450).	(2) angled hanging cables
7121	Angled Hanging Kit (60° maximum angle) For use when hanging panels at different angles. Extends from the end of Deck Hanging Kit (5450).	(2) angled hanging cables
625530	Extended Hanging Cables For use with deck hanging kit when longer cables are needed.	(4) 30' aircraft cables
7006	Escutcheon Kit Used when hanging panels below an existing ceiling.	(2) collars with setscrews (2) 2" escutcheons
5451	Grouping Frames Kit Suspension frames used to group panels together.	(4) suspension frames, 12' long, Black (BL) or White (WH)
5452	Frame Splice Kit Connects group suspension frames for longer runs (> 12 feet).	(2) group frame connectors, 10' long, Black (BL) or White (WH) (4) bolts with washers (4) nuts
5453	Frame Alignment Kit For use with group suspension frames.	(4) frame alignment spacers, clear plastic (4) bolts (4) nuts with washers
5454	Panel Hook Kit For use with group frames (one kit per all panels except item 5449, Large Rectangle, which requires two kits).	(2) 4-1/2" high panel hooks, Black (BL) or White (WH (2) 3-1/2" high panel hooks, Black (BL) or White (WH) (8) bolts
5629 5630 5631	Multi-plane Hanging Kits For use when hanging panels at heights below Panel Hook Kit (5454).	5629 1" Drop Hook Kit 5630 2" Drop Hook Kit 5631 3" Drop Hook Kit (2) 4-1/2" hooks (2) 5-1/2" hooks (2) 6-1/2" hooks (2) 5-1/2" hooks (2) 7-1/2" hooks (8) screws (8) screws (8) screws
5455	Drywall Ceiling Hanging Kit For individual panel attachment to drywall.	(2) drywall clip assemblies (2) shoulder bolts
5588	Wall Hanging Kit For individual panel attachment to a wall.	(4) clip assemblies (4) shoulder bolts
5632	Grid Hook Kit For hanging individual panels from a standard suspension system.	(4) hooks (8) screws

NOTE: Accessory kit hardware is attached to panels via the metal extrusion or corner brackets on the back of each pane. The diagram on the right shows the location of extrusions and corner brackets in the back of a nominal 4' x 4' panel. See installation instructions BPLA-297302 for more details.

If you need assistance identifying what and how many accessory kits are needed for your project, please contact TechLine customer support at 1 877 276-7876.

ullet Indicate desired color using two-digit color code when ordering; BL = Black; WH = White





# SOUNDSCAPES® Shapes

# **Acoustical Clouds**

# HUNDREDS OF WAYS TO CONFIGURE SOUNDSCAPES® SHAPES PANELS

## Individual Suspension

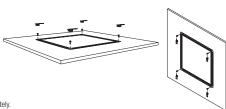


Three Items 5443 in White

# Individual Attachment to Drywall or Solid Surface



Two Items 5440 and 5448 in Tangerine (upper wall and ceiling)



ACCESSORY KITS All accessory kits are ordered separately.

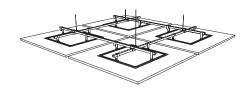
Deck Hanging Kit (5450)

Drywall Hanging Kit (5455) Wall Hanging Kit (5588)

### **Group Suspension**



Items 5441 and 5442 in White



Deck Hanging Kit (5450) Grouping Frames Kit (5451 Frame Alignment Kit (5453) Panel Hook Kit (545 \_ \_ )

# PHYSICAL DATA

## Material

7/8" thick fiberglass with DuraBrite® scrim on face and sides or custom 1-3/4" thick fiberglass with DuraBrite scrim on all sides (360° finishing). To order custom panels, contact TechLine at 1 877 276-7876.

# Surface Finish

DuraBrite Fillish DuraBrite scrim with factory-applied paint on face and sides. Standard White has energy-saving, high light-reflective finish (LR 0.90). Back of panel is unfinished with embedded metal extrusions

# Fire Performance

SoundScapes® Shapes panel material is ASTM E84 Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

CAN/ULC \$102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

SoundScapes Shapes acoustical clouds, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

# **ASTM E1264 Classification**

Type XII, Form 2, Pattern E

High Recycled Content
Contains greater than 50% total recycled content.
Total recycled content based on product composition
of post-consumer and pre-consumer (post-industrial)
recycled content per FTC guidelines.

# **Acoustical Performance**

1.49 Sabins per square foot or 66% more sound absorption than the same square footage of NRC 0.90 continuous ceilings. Color shapes have slightly reduced acoustical performance.

**Design Considerations**SoundScapes Shapes acoustical clouds maintain a natural sag that may not be noticeable when installed 6" or less apart. Deflection up to 1/8" has been documented in some cases.

SoundScapes Shapes available with 360° finishing for use in areas where panel back is exposed (can only be installed with included individual suspension).

Special care in installation and handling must be taken with color shapes to avoid surface damage to the paint finish. Custom colors are available. Contact TechLine with a Sherwin-Williams® color code from the Durations® or Harmony® flat interior paint families (Code SW \_ \_ \_ \_

Custom shapes are available by providing a custom shape drawing within guidelines and sending to TechLine.
Call 1 877 276-7876 for assistance.

Seismic Restraint
Refer to ASCE 7-10, Section 13.5 Architectural
Components for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

## Suspension Systems

SoundScapes Shapes acoustical clouds are pre-assembled with metal extrusions in the back of the panels. Standard accessory kits facilitate quick and easy installation from the deck, through a ceiling, or directly attached to drywall. See Installation Instructions BPLA-297302 for installation details

Warranty Details at armstrongceilings.com

Panel Weight 0.63 lbs/SF

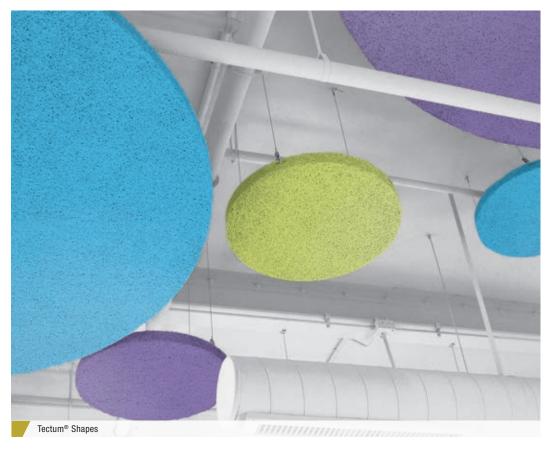
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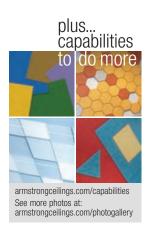


# TECTUM® Shapes and Clouds

**Acoustical Custom Panels** coarse texture







Tectum® Shapes and Clouds deliver design flexibility and acoustical performance in a floating system.

# **KEY SELECTION ATTRIBUTES**

- · Floating cloud system in multiple sizes and shapes; custom shapes available
- Noise Absorption up to 0.41 Sabins/SF
- Panel Sizes in 1-1/2"or 2" panel thickness; widths: 23-3/4" to 47-3/4"; lengths: up to 96"
- Available in White, Natural, and made-to-order Colorations® colors and Sherwin-Williams® colors
- Installs with 15/16" Prelude® Suspension System
- · Square or radius edges

COLORS Due to printing limitations, shade may vary from actual product.

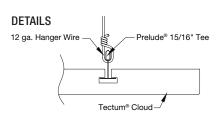






Made-to-order Colorations® Colors Available

Made-to-order Sherwin-Williams® Colors Available





# **WOODWORKS®**

# Accent & Acoustical Canopies



These aesthetically pleasing canopies in warm, natural wood veneers offer an acoustical performance when perforated.

# **KEY SELECTION ATTRIBUTES**

LOCATION DEPENDENT

- · Choose from Hill, Valley, or S-curve dual radius canopies
- · Adjustable to different heights and angles
- · Perforated option available for better acoustics on hill and valley canopies
- · Concealed mounting hardware for a clean look above and below

# VENEERS Due to printing limitations, shade may vary from actual product.

## Natural Variations™ (Real Wood Veneers)



(NMP)





(NLC)



(NDC)





Bamboo (Veneer is Rapidly Renewable)

# PERFORATION OPTIONS (Actual 1:6 scale shown)



(Unperforated)



NOTE: Rd 6006 perforation on Hill and Valley only. Black fleece adhered to the back of panels for improved acoustics (Rd 6006)

**PERFORMANCE** 

VISUAL SELECTION

(NRF)

Item No. ◆	Description	Shape	Dimensions (Inches)	Fire Rating
WOODWORKS® Ca	nopies			
5918	Hill		72 x 36 x 3/4"	Class A
5919	Valley		72 x 36 x 3/4"	Class A
5920	Hill		96 x 48 x 3/4"	Class A
5921	Valley		96 x 48 x 3/4"	Class A
5979	S-curve		96 x 48 x 7/8"	Class A

<sup>◆</sup> When specifying or ordering, include the appropriate 5-digit perforation and color suffix (e.g. 5918 W 1 N D C) with the item number. NOTE: Suspension cables are shipped with canopies.

SUSPENSION COMPONENTS	Description	Color	Pieces/Carton
	WoodWorks Canopy Hanging Kit *	Metal	1 kit

<sup>\*</sup> Each Canopy Hanging Kit includes four hanging assemblies and is shipped with canopy. Use one kit for canopy.

## PHYSICAL DATA

Hill/Valley - fire-retardant particle board with face-cut veneers. S-curve – fire-retardant medium-density fiberboard with face-cut veneers.

# Panel Arc

Hill or Valley – 12' radius S-curve – 8' radius

# Surface Finish

Clear or tinted semigloss coating

Fire Performance
ASTM E84 surface burning characteristics. Flame
Spread Index 25 or less. Smoke Developed Index
50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

WoodWorks® Canopies, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water

TechLine / 1 877 276-7876 armstrongceilings.com/woodworks (search: woodworks canopies) BPCS-4057-517

distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

# ASTM E1264 Classification Composite – Fire Class A

# **Acoustical Performance**

16.3 Sabins per perforated wood canopy with acoustical fleece.

Application Considerations
Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained.

# **Design Considerations**

WoodWorks® Canopies are not approved for exterior application. The WoodWorks Canopies cable hanging

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system must not hang from any commercial ceiling suspension system. The canopy must not be used to support any other material.

Concealed hardware (painted black) may be visible.

## **Installation Considerations**

WoodWorks® Canopies require two people to handle and install a panel safely. See installation instructions on web site for details at armstrongceilings.com/installation.

# Seismic Restraint

SelSinic restraint
Refer to ASCE 7-10, Section 13.5 Architectural Components,
for seismic requirements. Section 13.5, Item 2 refers to 13.2.3
Consequential Damage.

Suspension System Hardware and 8' cables included in kit

# Warranty

Details at armstrongceilings.com

# Weight/SF

Hill or Valley – 2.5 lbs per SF (Bulk packaged) S-curve – 3.5 lbs per SF (Bulk packaged)



# You Can Use Acoustical Direct-to-Deck Panels to Enhance Design and Acoustical Performance

Direct-to-Deck acoustical panels can provide sound absorption for open plenum spaces.

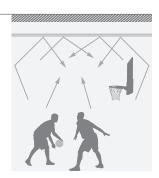
Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

NRC is the term used to measure acoustics for these ceiling forms.

# NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.

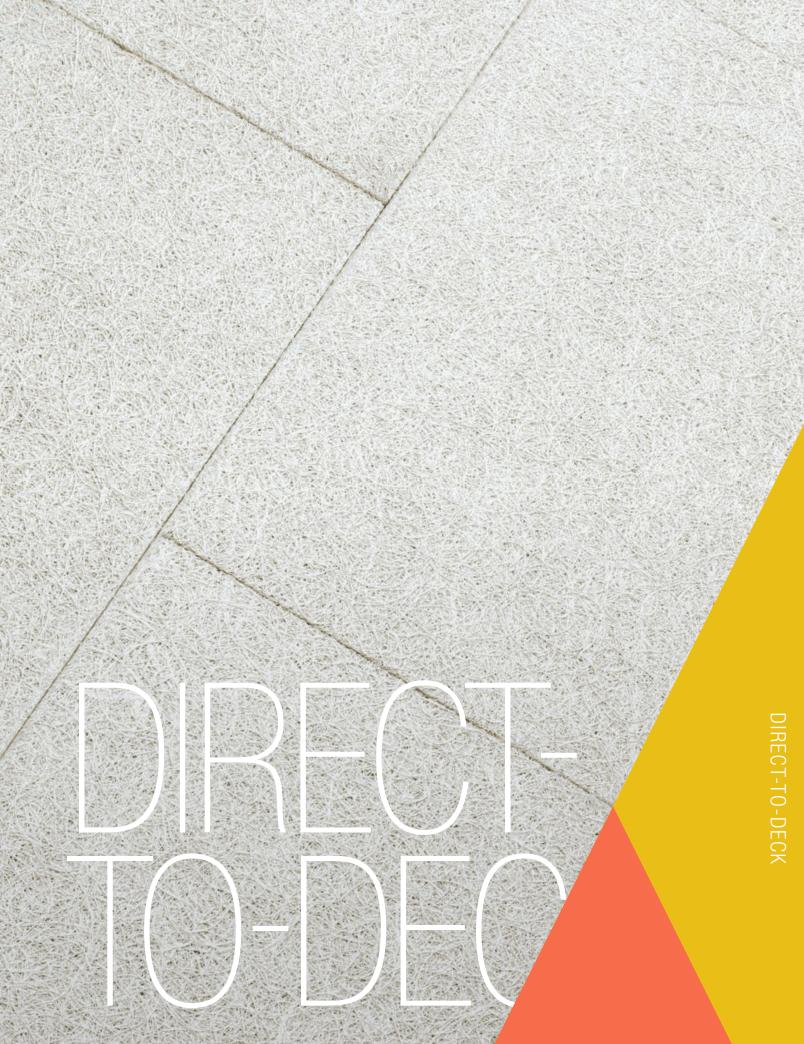


Example:	Exposed Structure	Direct-Attach Tectum					
4,800 SF Exposed Structure (80' x 600'), 31' to deck, concrete and brick walls, indoor sports flooring							
Ceiling	No Treatment (0% Coverage)	1" Tectum in C-40 mounting (80% Coverage on Ceiling)					
NRC	0.00	0.85					
Reverberation Time	5.1 sec	1.4 sec					
RT Improvement	ref	73%					
SPL Reduction	ref	-4.3 dB					

For definitions of acoustical terms, see pages 473-474 in this catalog.







# DIRECT-TO-DECK CEILING PANELS At-a-Glance



helping to bring your one-of-a-kind ideas to life

# **CAPZ™ PANELS**



 METALWORKS™, Pgs. 55-56 OPTIMA® & SPECTRA™













MetalWorks Tech Black White (BL) (WH)



Silver Grey

(SG)

MetalWorks

Gun Metal

Grey (MY)



RAL® / Custom Colors Available

Cap Color Selection Optima & Spectra Capz

Panel Color Selection



White

Textured

(WH)

Optima

White

(WH)

Silver Smooth

(SL)



(BL)





Gun Metal Grey Smooth (MY)

# **TECTUM® PANELS**



Pgs. 107-108 **TECTUM®** Direct-Attach Ceiling Panels - Standard

















Made-to-order Colors Available







TECTUM® Finalé™ High NRC Pg. 109 Direct-Attach Ceiling Panels – Custom







TECTUM® Panel® Art Pg. 110 Direct-Attach Ceiling Panels – Custom













Colorations® Colors Sherwin-Williams® Available

# **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

# **High Acoustics**



NRC Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

## Fire Performance Class A

# Seismic



Category D, E & F

# Light Reflectance



Light reflectance of 0.83 or greater.

## BioBlock®



Resists the growth of mold and mildew

# Humidity/Sag Resistance HumiGuard® Plus



Recommended for areas subject to high humidity up to but not including standing water or outdoor applications.

# High Durability Washability



Offers superior wash resistance without compromising panel finish integrity.

# Scrubbability



Product is scrubbable. See specific info on product page

# Impact Resistance



Excellent resistance to surface impact.

## Scratch Resistance



Excellent resistance to surface scratching, scuffing or scratching, scuffing, or chipping as per Hess Rake Test.

# Soil Resistance



Excellent resistance to dirt and/or grease for lasting value and performance.

## Color Availability



Available in color.

# Recycle Program

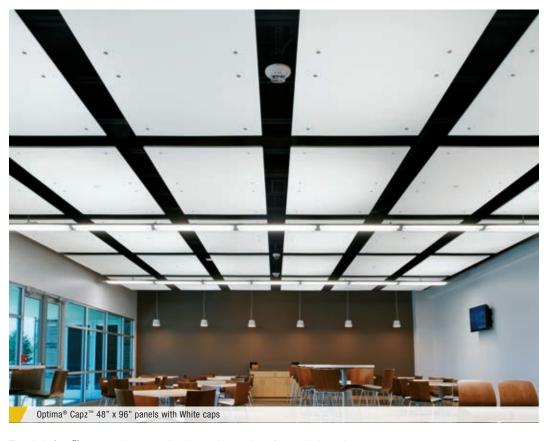


Product is recyclable through the Armstrong Recycling Program.



# Capz™ METALWORKS™, OPTIMA®, and SPECTRA™

acoustical panels medium texture





The sleek Capz<sup>™</sup> system pairs accent hardware with a variety of acoustical panels.

# **KEY SELECTION ATTRIBUTES**

- · Noise is absorbed on both the front and back of panels (Optima® and Spectra™)
- · Panel options: Optima, Spectra, MetalWorks<sup>™</sup>
- · High light reflectance 0.90 (Optima and MetalWorks white panels)
- · Easy alignment suspension system
- · Panels can be designed in long runs or grouped based on the acoustical needs of the space.
- MetalWorks panels feature:
   ExpanTech™ technology for larger MetalWorks panel sizes with 10 times less deflection than standard large-size metal panels (without the use of panel
- Durable Washable, Scrubbable, Impact-, Soil-resistant
- RAL/custom colors available.

# TYPICAL APPLICATIONS

- · Exposed structure
- Drywall spaces requiring acoustical correction
- · Painted decks
- · Capz panels can be installed: directly to the deck, on drywall, or suspended like a continuous ceiling

# PANEL COLOR SELECTION



Spectra<sup>1</sup> Tech Black







Silver Grey



Grey (MY)





(WH)



CAP COLOR SELECTION



Textured

# MetalWorks™ Capz







Grey Smooth (MY)



RAL® / Custom Colors Available

# (WH) **DETAIL**







- 1. Optima® White Capz™
- 2. Spectra™ Tech Black Capz™
- 3. MetalWorks™ Capz™

# METALWORKS™ CAPZ™ PANEL PERFORATION OPTIONS

(Actual 1:1 scale shown)



NOTE: MetalWorks<sup>™</sup> Capz<sup>™</sup> panels have a 1/2" unperforated border. Refer to hand sample for visual.

White

Smooth

M10 (Rg 2513)



# Capz™ OPTIMA® and SPECTRA™

acoustical panels medium texture

# CONTENT armstrongceilings.com/greengenie

Calculate LEED contribution at

RECYCLED

# **VISUAL SELECTION**

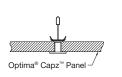
PERFORMANCE SELECTION Dots represent high level of performance.

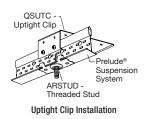
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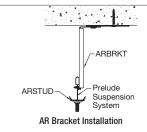
Edge Profile	ltem No. ◆	Dimensions (Inches)		Acoustics	Light Reflect	Fire Rating	Anti-Mold & Mildew	Sag Resist	Wash	Scrub	Impact	W Scratch	Soil	Recycled Content	Recycle
OPTIMA® and SPECTRA™ Capz™ Reverse Tegular				(White Only)		Inherent	Humi- Guard+			Durability					
	3934	24 x 48 x 7/8"		0.90	0.90	Class A	•	•	•	-	-	•	•	•	•
	3935	24 x 60 x 7/8"		0.90	0.90	Class A	•	•	•	_	_	•	•	•	•
	3930	24 x 72 x 7/8"	: : :	0.90	0.90	Class A	•	•	•	-	-	•	•	•	•
	3931	24 x 96 x 7/8"		0.90	0.90	Class A	•	•	•	-	-	•	•	•	•
	3936	36 x 36 x 7/8"		0.90	0.90	Class A	•	•	•	-	-	•	•	•	•
	3932	48 x 48 x 7/8"		0.90	0.90	Class A	•	•	•	-	-	•	•	•	•
	3933	48 x 96 x 7/8"		0.90	0.90	Class A	•	•	•	-	-	•	•	•	•
	FastSize <sup>™</sup> Panels (Optima only)	W: 12" – 48" / L: 7/8" thick	12" – 120"	N/A	0.90	Class A	•	•	•	-	-	•	•	•	•

<sup>◆</sup> When specifying or ordering, include the appropriate 2-letter suffix (e.g., 3934 W H) for Optima White: 3934 B L for Spectra Tech Black: 64901M10 W H for MetalWorks

# OPTIMA® CAPZ™





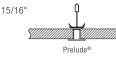


# **CAPS**



Caps for Optima® or Spectra™ (ARCAP\_\_\*)◆

# SUSPENSION SYSTEMS



# **ACCESSORIES**



Adjustable Hanger Bracket (ARBRKT) Rigid Attachment

Clip (QSUTC)



Cross Tee Plug Clip (ARPLUG) Threaded Stud

(ARSTUD)



Clip (STAC)

# PHYSICAL DATA

Optima® – fiberglass with a DuraBrite® acoustically transparent scrim. Spectra Tech Black – fiberglass with an acoustically transparent scrim.

Optima® White – a DuraBrite finish with factory-applied latex paint providing superior light reflectance. Spectra Black – a factory-applied latex paint.

**Fire Performance**Optima®/Spectra™ – ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled)

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

## Panel Deflection

Capz™ panels will naturally deflect due to the Capz™ four-point (or more) suspension system. Deflection of up to 1/8" has been documented in some cases. Panels should not be installed perpendicular to each other due to varying degrees of deflection.

Design & Installation Considerations In situations where all suspension points cannot be used, follow our technical guide BPCS-3939 for recommendations.

Panels are installed directional and are marked on the back with arrows. Suspension system may be visible at panel intersection. Consider using coordinating Prelude® 15/16" suspension system. Panels may be stacked in layers. Panels may be installed on a slope using guidelines found in installation instructions BPLA-297435.

Warranty Optima® Capz™ & Spectra™ Capz™ - 10 year Details at armstrongceilings.com

Weight; Square Feet/Carton 3930, 3936 – 0.56 lbs/SF; 72 SF/ctn 3935 – 0.56 lbs/SF; 80 SF/ctn 3931, 3934 – 0.56 lbs/SF; 96 SF/ctn 3932 – 0.56 lbs/SF; 64 SF/ctn 3933 – 0.56 lbs/SF; 128 SF/ctn

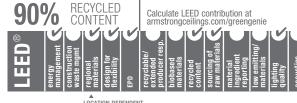




# Capz™ METALWORKS™

acoustical panels smooth texture

VISUAL SELECTION



# PERFORMANCE SELECTION Dots represent high level of performance

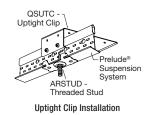
\$\$\$\$\$

Edge Profile	Item No. ◆	Dimensions (Inches)	Acoustics	Light Reflect	Fire Rating	Anti-Mold & Mildew	Sag Resist	Wash	Scrub	Impact	Scratch	Soil Soil	Recycled Content	Recycle
METALWOR		(White Only)		Inherent	Humi- Guard+			Durability						
	64901M10	48 x 48 x 9/16" (1 pc carton)	0.75 <sup>†</sup>	0.61	Class A	•	•	•	•	•	•	•	•	•
	64902M10	48 x 48 x 9/16" (2 pc carton)	0.75 <sup>†</sup>	0.61	Class A	•	•	•	•	•	•	•	•	•
METALWOR	RKS™ Capz™ Premi	ium Sizes*												
	64780M10	24 x 48 x 9/16"	0.75 <sup>†</sup>	0.61	Class A	•	•	•	•	_	•	•	•	•
	64790M10	24 x 60 x 9/16"	0.75 <sup>†</sup>	0.61	Class A	•	•	•	•	_	•	•	•	•
	64910M10	24 x 72 x 9/16"	0.75†	0.61	Class A	•	•	•	•	-	•	•	•	•
	64920M10	24 x 96 x 9/16"	0.75†	0.61	Class A	•	•	•	•	-	•	•	•	•
	64930M10	36 x 36 x 9/16"	0.75 <sup>†</sup>	0.61	Class A	•	•	•	•	-	•	•	•	•
	64940M10	48 x 96 x 9/16"	0.75 <sup>†</sup>	0.61	Class A	•	•	•	•	_	•	•	•	•

- ◆ When specifying or ordering, include the appropriate 2-letter suffix (e.g., 64901M10 W H for MetalWorks White).
- \* Minimum order quantities and extended lead times may apply. † With BioAcoustic™ infill item 5479. NRC of 0.90 with fiberglass infill 8200100.

# METALWORKS™ CAPZ™





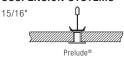
ARBRKT Prelude ARSTUD Suspension System AR Bracket Installation

# **CAPS**



CAPS for MetalWorks (5487\_\_•)

# SUSPENSION SYSTEMS



# **ACCESSORIES**



Adjustable Hanger Bracket (ARBRKT) Rigid Attachment

Clip (QSUTC)



Cross Tee Plug Clip (ARPLUG)

Threaded Stud

(ARSTUD)



Clip (STAC)

# PHYSICAL DATA

# Material

MetalWorks<sup>™</sup> – aluminum composite – 0.57" thick.

Optima® White — a DuraBrite® finish with factory-applied latex paint providing superior light reflectance. Spectra Black — a factory-applied latex paint. MetalWorks — factory-applied powder-coated finish (post-coated).

Fire Performance
MetalWorks™ — ASTM E84 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less.

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

VOC Emissions (MetalWorks™ only)
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/ Standard
Method Version 1.1, 2010. This standard is the guideline
for low emissions in LEED®, CalGreen Title 24, ANSI/
ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

# High Recycled Content

Total recycled content of post-consumer and product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

# Panel Deflection

Capz™ panels will naturally deflect due to the Capz™ four-point (or more) suspension system. Deflection of up to 1/8" has been documented in some cases. Panels should not be installed perpendicular to each other due to varying degrees of deflection.

# **Design & Installation Considerations**

In situations where all suspension points cannot be used, follow our technical guide BPCS-3939 for recommendations.

Panels are installed directional and are marked on the back with arrows. Suspension system may be visible at panel intersection. Consider using coordinating Prelude® 15/16" suspension system. Panels may be stacked in layers. Panels may be installed on a slope using guidelines found in installation instructions BPLA-297435.

# **Warranty** MetalWorks<sup>™</sup> Capz<sup>™</sup> – 1 year

Details at armstrongceilings.com

Weight; Square Feet/Carton MetalWorks™ - 1 lb/SF

TechLine / 1 877 276-7876 armstrongceilings.com/capz

BPCS-4056-517

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# M TECTUM® Direct-Attach

# Acoustical Ceiling Panels coarse texture



Tectum® Direct-Attach ceiling panels provide durable, sustainable, acoustical options for a wide variety of applications.

# **KEY SELECTION ATTRIBUTES**

- · Durable for heavy-use interiors
- Great retrofit solution for noise reduction
- Excellent noise absorption NRC up to 0.85
- · Tectum® 1" panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability standards today
- · Can be field painted up to six times without impacting acoustic or fire performance
- · Wide variety of color options available, including made-to-order Colorations® colors and Sherwin-Williams® colors
- · Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

# TYPICAL APPLICATIONS

- Gymnasiums
- Auditoriums
- · Multi-purpose Spaces
- · Exposed Structures · Acoustical Retrofits
- · Education Spaces

**COLORS** Due to printing limitations, shade may vary from actual product.



**DETAILS** 

White Natural







Note: Colorations® colors and panels greater than 1" thick are not included in Sustain™ portfolio.

(TWH) (TNA) Colorations® Colors Sherwin-Williams® Available Colors Available



Note: Panel edges are unfinished.

# LINE DESIGN CAPABILITIES

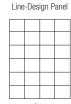
Available through special order







Horizontal







Grid Line-Design Panel

(2)

Panel Thickness

Mounting Method

Α

D-20

C-20

C-40

## armstrongceilings.com/greengenie

## ▼ TECTUM® Direct-Attach

Acoustical Ceiling Panels coarse texture

Declare<sup>™</sup> Livina Buildina Challenge Compliant





П

#### VISUAL SELECTION

## **Dimensions** Nominal

WxLxH Edge Item Profile (Inches) No. ◆

#### TECTUM® Direct-Attach Ceiling Panels (FSC Certified Available Upon Request)

-			
Long Edges Beveled/ Short	8182T10	23-3/4 x 48 x 1"	
Edges Square	8181T10	23-3/4 x 96 x 1"	
	8180T10	47-3/4 x 96 x 1"	

Other Size **Panels** 

W 23-3/4" - 48" L: 12" - 144" 1", 1-1/2", or 2" thickness

When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural TWH = White (e.g. 8182T10  $\underline{T} \underline{W} \underline{H}$ ) For four-sided beveled edge panels, special sizes and colors call TechLine at 1 877 276-7876.

#### FSC®-certified panels available upon request

Four-sided beveled edge panels are recommended in adjoining panel installation

### **PERFORMANCE SELECTION** Dots represent high level of performance.

**ACOUSTICAL INFORMATION** 

0.40

0.40

0.80

0.85

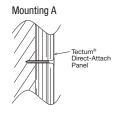
Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	Impact	N Scratch	30-Yr Warranty
	(White Only)	BioBlock	Humi- Guard+			Durability		
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	-	_	-	•	•	•	•

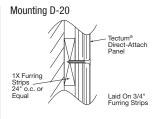
#### **ACCESSORIES**

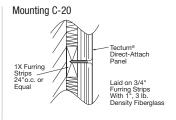
Item No. ◆	Description	Quantity
8187L16	#6 x1-5/8" Painted Head - Sharp point Screws	1000/ctn
8188L16	#6 x1-5/8" Painted Head – Drill point Screws	1000/ctn
8189L22	2-1/4" Painted Head – CMU Screws	500/ctn

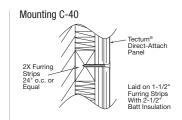
♦ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural; TWH = White (e.g. 8187L16 <u>T W H</u>) Consult installation instructions for fastener guidance

#### ACOUSTICAL MOUNTING METHODS









## PHYSICAL DATA

#### FSC Certified panels available upon request.

Cementitious Wood Fiber; FSC®-cerified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 ARMSTRONG.

#### Surface Finish

Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

#### Fire Performance

Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

#### **VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Tectum® panels meet CDPH guidelines in enclosed office wall applications at 50% coverage. View certificate details at armstrongceilings.com/tectum.

#### details and cutting recommendations. Primary (Embodied) Energy See all LCA information on our EPDs

### **Application Considerations**

**Humidity/Sag Resistance** 

Mold/Mildew Protection

growth of mold and mildew.

Installation Considerations

Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels

HumiGuard® Plus panels are recommended for areas subject to high humidity, up to, but not including,

Ceiling panels with BioBlock® performance resist the

Panels must be mechanically attached to approved

ashlar pattern. Four-sided beveled edge panels are

recommended in adjoining panel installations.

proper finished visual panels should be installed in an

Use caution and wear appropriate hand, eye, and dust

mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete

substrate per installation instructions. To achieve

standing water and outdoor applications

Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood

#### **Design Considerations**

For walls that may experience condensation or moisture, such as uninsulated exterior walls, D- or C- mounting is required to create a gap between the structure and the panel

#### Design Support

Project management assistance is available by calling TechLine at 1 877 276 7876.

#### **Specification Consideration**

FSC Certified panels available upon request. Attention: For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

#### Seismic Restraint

Tectum Direct Attach panels are approved for application in all seismic areas when installed per Armstrong Ceilings Installation Instructions.

**Warranty** 30-Year Warranty. Details at armstrongceilings.com

#### Weight, Pcs and SF/Pallet

1" - 1.65 lbs/SF 8180T10 - 36 pcs/pallet; 1,152 SF/pallet 8181T10 - 72 pcs/pallet; 1,152 SF/pallet 8182T10 - 72 pcs/pallet; 572 SF/pallet

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BPCS-5614-517

## TECTUM® Finale™

### **Acoustical Custom Ceiling Panels** coarse texture

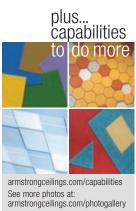












Tectum® Finale™ high NRC ceilings provide durable, sustainable, acoustical solutions for a wide variety of applications.

#### **KEY SELECTION ATTRIBUTES**

- Composite panel design combines
   Tectum® panel and acoustical absorptive material in one for maximum sound control and efficient installation
- Excellent Noise Absorption NRC up to 1.0\* for maximum sound absorption (1" panels)
- Panel sizes in 1", 1-1/2", and 2" thickness; widths: 23-3/4" to 47-3/4"; lengths: 48" to 144"
- Available in White, Natural, and made-to-order Colorations® colors and Sherwin-Williams® colors
- · Abuse resistant for active spaces
- · Long edges beveled, square ends
- · Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

COLORS Due to printing limitations, shade may vary from actual product.













Colorations® Colors Available

Made-to-order Sherwin-Williams® Colors Available

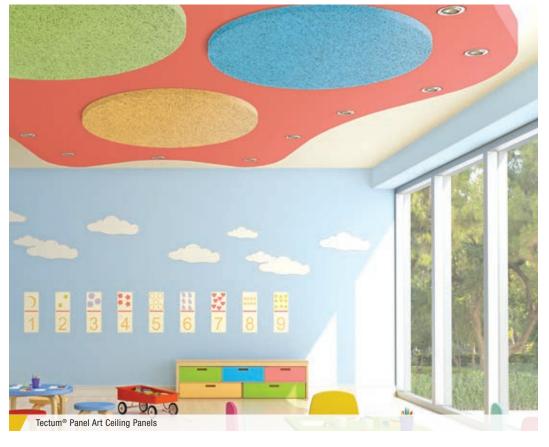
### **DETAILS**

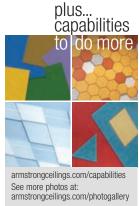




## ▼ TECTUM® Panel Art

# Custom Panels coarse texture





Tectum® Panel Art ceiling panels offer unlimited design flexibility and easy installation.

#### **KEY SELECTION ATTRIBUTES**

- Eight shapes and custom options available
- Choose from 1", 1.5", and 2" panel thickness: create your own custom shapes from panels up to 48" x 48"
- Available in White, Natural, and made-to-order Colorations® colors and Sherwin-Williams® colors
- Noise absorption NRC 0.40 (1" panel)
- Abuse resistant for active spaces
- · All panels have beveled edges
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

#### COLORS Due to printing limitations, shade may vary from actual product.



(TWH)

Na



Natural (TNA)



Made-to-order Colorations® Colors Available



Made-to-order Sherwin-Williams® Colors Available

#### SHAPES Examples of custom options



Square .631 lb/pc Width: 8" Length: 8"



Rectangle 1.4 lb/pc Width: 8" Length: 16"



Hexagon .575 lb/pc Width: 7.5" Length: 8-11/16"



Circle .475 lb/pc 8" Diameter



16" Triangle 1.425 lb/pc r Width: 16" Length: 16"



8" Triangle .375 lb/pc Width: 8" Length: 8"



Right Parallelogram .700 lb/pc Width: 8" Length: 16"



Left Parallelogram .700 lb/pc Width: 8" Length: 16"









Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

Perforated metal ceilings can provide sound absorption with the addition of mineral fiber or acoustical fleece backing.

Acoustical absorption is important to:

- Reduce noise levels and reverberation time as well as enhance speech intelligibility

A continuous MetalWorks<sup>™</sup> ceiling with an M3 perforation and acoustical infill panel provides sound absorption (NRC 0.70), reducing reverberation by 84%. See example below.

MetalWorks<sup>™</sup> perforated panels installed with an acoustical infill panel achieve Total Acoustics<sup>®</sup> Performance.

#### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



### CAC (Ceiling Attenuation Class)

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces, such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC > 35 is considered high performance. CAC is important between closed spaces and from closed rooms to adjacent spaces, such as corridors and open office spaces.

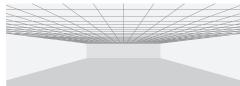


#### Example:

#### **Exposed Structure**

#### Continuous Ceiling





5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet	No Treatment (0% Coverage)	Continuous MetalWorks Ceiling with M3 Extra Microperforated panels and acoustical infill panel	Continuous MetalWorks Ceiling with M2 Microperforated panels and 2820 acoustical infill panel		
Ceiling	Exposed Structure	Suspended 60" Below Deck	Suspended 60" Below Deck		
NRC	0	0.70	0.80		
CAC	0	0.40	0.35		
Reverberation Time	3.4 sec	0.6 sec	0.5 sec		
RT Improvement	ref	82%	85%		
SPL Reduction	ref	-5.0 dB	-6.0 dB		

For definitions of acoustical terms, see pages 473-474 in this catalog.







## METALWORKS™ Standard Ceilings At-a-Glance



helping to bring your one-of-a-kind ideas to life

#### STANDARD CEILINGS



METALWORKS™ Tegular Pgs. 121-124



NRC A DEF S



METALWORKS™ Vector® forPgs. 125-126 Interior & Exterior Applications







METALWORKS™ Clip-on Pgs. 127-128 NRC A DEF TO S



METALWORKS™ Concealed Pgs. 129-130





METALWORKS™ Linear for Pgs. 131-134 Interior & Exterior Applications











METALWORKS™ Mesh™ Pgs. 135-138 NRC A CONTROL OF THE CONTROL OF THE



METALWORKS™ Open Cell Pgs. 139-140 



METALWORKS™ Plank NRC CAC A DEF





METALWORKS™











Pgs. 143-144



METALWORKS™ Snap-in Pgs. 145-146





METALWORKS™ 3D Pgs. 147-148 



NRC A CAC MARCHAN





METALWORKS™ Torsion Pgs. 151-152 Spring Interior & Exterior Applications













METALWORKS™ Capz™ I Featured in Direct-to-Deck Pgs. 104-106











SERPENTINA® Waves™ Poperatured in Clouds & Canopies









## METALWORKS™ Custom Ceilings At-a-Glance

#### **CUSTOM CEILINGS**



METALWORKS™ TorsionSpan™ Pg. 162 



METALWORKS"

**Fastrack Systems** 

METALWORKS™ RH215

Flat & Faceted Systems



Pg. 159

METALWORKS™ Torsion Spring Pg. 162 Flat & Curved Systems



METALWORKS™ RH200

Flat & Curved Systems

METALWORKS™

Tartan Systems







Pg. 160



METALWORKS™ RH200 Pg. 160 for Interior & Exterior Applications





Pg. 159





METALWORKS™ Radial Systems







SERPENTINA® Classic Pgs. 85-86 Featured in Clouds & Canopies



### **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

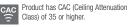
#### **High Acoustics** Total Acoustics® (()))



Perforated product has both NRC of 0.70 or greater AND CAC of 35 or higher when used with acoustic infill panels.



Product has NRC (Noise Reduction Coefficient) 0.70 or greater.



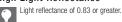
Class) of 35 or higher.



Sabin measures are noted under canopies and clouds products

#### Fire Performance Class A

#### High Light Reflectance



## **Humidity/Sag Resistance**



#### **HumiGuard Plus**



Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

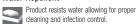
#### Seismic



Category D, E & F

## **High Durability**





#### Washability



Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per modified ASTM D2486.

#### Scrubbability

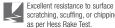


Withstands up to 150 scrub cycles using a scrubbability tester as per modified ASTM D2486.

#### Impact Resistance



#### Scratch Resistance



scratching, scuffing, or chipping as per Hess Rake Test. Soil Resistance

### Excellent resistance for dirt and/or grease



for lasting value and performance. Plenum Access Downward access for panels minimizes

### panel damage. Color Availability



Available in color.

### Sustainability



Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.

#### COLORS AND PERFORATIONS For more colors and perforations, see pgs. 101-106. Perforations shown at actual 1:2 scale



METALWORKS™

SecureLock™ Plus



Steel





Pgs. 141-142



























Custom Colors Available



















# $\textbf{METALWORKS}^{\text{\tiny{TM}}} \ \textbf{Standard Ceilings} - \textbf{Steel}$

## Standard Finishes

Not all finishes available on all perforations. Consult product page or your Armstrong Ceilings representative for more information.

	Clip-on Torsi Sprir	on Concealed ng	Snap-in	Tegular	Vector®	Linear	Plank	Mesh™	SecureLock™	3D	Tin	TorsionSpan
	White (WH)	<b>~</b>		~	<b>~</b>	~	<b>V</b>	<b>V</b>	<b>V</b>			
	Silver Grey (SG)	<b>~</b>		~	~	~	<b>/</b>	<b>/</b>	~			
	Gun Metal Grey (MY)	<b>~</b>		~	~	~		<b>/</b>	~			
	Effects™ Wood Looks Maple (FXMP)			~	~	~						
	Effects Wood Looks Cherry (FXCH)			~	~	~						
	Effects Wood Looks Dark Cherry (FXDC)			~	~	~						
	Effects Wood Looks Walnut (FXWN)			~	~	~						
	Effects Wood Looks Oak (FXOK)			~	~	~						
	Effects Wood Looks Walnut Espresso (FXWE)			~	~	~						
	Tech Black (BL)							<b>/</b>				
	Nickel Chrome (NC)							<b>V</b>				
	Bright Anodized (BA)							<b>V</b>				
	Natural Anodized (NA)							<b>/</b>				
	Copper (CP)							<b>/</b>				
	Bronze (BZ)							<b>/</b>				
	Tin White (TWH)										~	
	Tin Bare Steel (TNA)										V	
	Tin Lacquered Steel (TLS)										V	
	Tin Copper (TCP)										<b>~</b>	
4	Custom Colors		<b>v</b>	~	<b>V</b>	~		~		<b>~</b>	~	

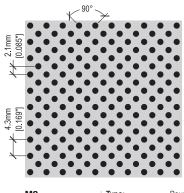


# $\textbf{METALWORKS}^{\text{\tiny{TM}}} \ Standard \ Ceilings - Aluminum$

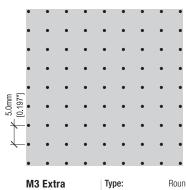
Standard Finishes

	Clip-on	Torsion Spring	Concealed	Snap-in	Tegular	Vector®	Linear	Plank	Mesh™ SecureLock™	3D	Tin	TorsionSpan™
Whitelume (WHA)	<b>V</b>	~		~						~		<b>~</b>
Silverlume (SIA)	<b>v</b>	~		~						~		<b>~</b>
Gun Metal (MYA)	<b>V</b>	~		~						~		<b>V</b>
Satin Anodized (SAA)	<b>V</b>	~		~								<b>~</b>
Lacquer Mill (LMA)	<b>v</b>	~		~								<b>~</b>
Brushalume (BAA)	<b>v</b>	~		~								<b>~</b>
Reflections™ Arctic Maple (LAI	M)	~		~						~		~
Reflections™ Rock Maple (LRN	1)	~		~						~		~
Reflections Light Cherry (LLC)		~		~						~		<b>~</b>
Reflections Natural Maple (LNMP	'IE)	~		~						~		~
Reflections Natural Oak (LNOIE)		~		~						~		<b>V</b>
Reflections Pecan (LPC)		~		~						~		<b>V</b>
Reflections Mineral Forest (LMF)		~		~								<b>V</b>
Reflections Walnut (LWN)		~		~						~		<b>V</b>
PureWood <sup>™</sup> Maple (NMP)		V										
PureWood <sup>™</sup> Light Cherry (NLC)		V										
PureWood™ Dark Cherry (NDC)		V										
Custom Colors	~	V		~	V	<b>V</b>	<b>V</b>			<b>V</b>	~	

#### AVAILABLE ON STEEL PANELS Actual 1:1 scale shown unless otherwise noted.



Round-Diagonal Type: Microperforated Hole Size: 1.5mm [.059"] % Open Area: 18.4% Use with Steel

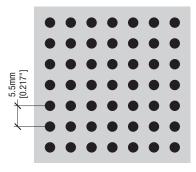


Round-Straight 0.7mm [.028"] Type: Hole Size: Microperforated Rg 0701 % Open Area: 1.5% Use with Steel

See page 119 for premium perforations.

Not all perforations available on all products. Contact TechLine for additional information and custom perforation options.

#### AVAILABLE ON STEEL OR ALUMINUM PANELS Actual 1:1 scale shown unless otherwise noted.

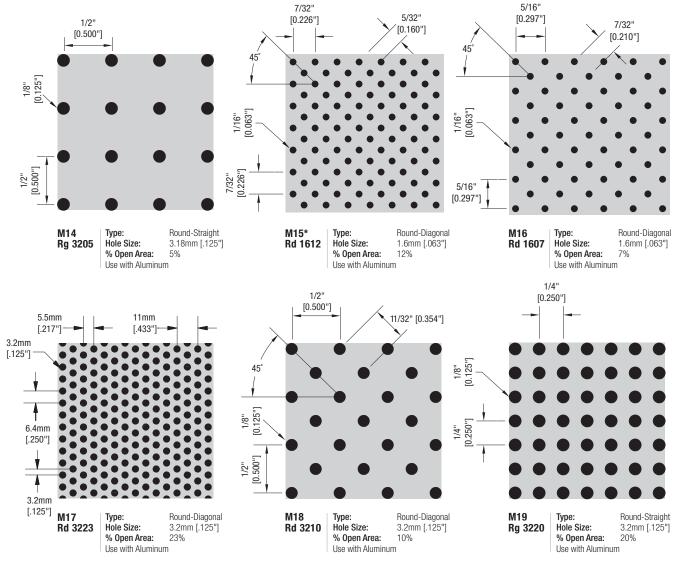


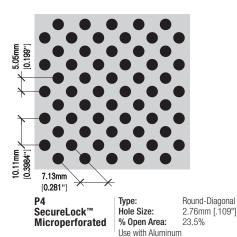
M10 Capz™ Concealed

Type: Hole Size:

Round-Straight 2.5mm x 2.5mm [.098 x .098"]

13.6% % Open Area: Use with Steel or Aluminum

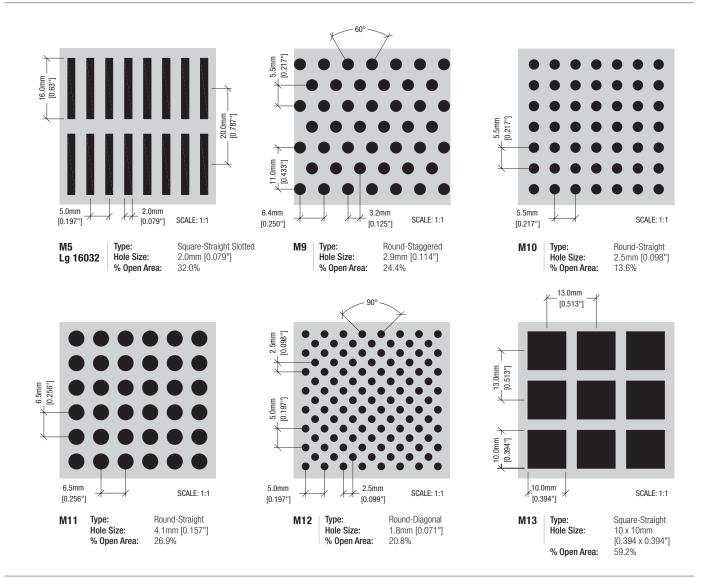




\* M20 designation is this perforation with Ceiltex™ finish applied on top. Standard on MetalWorks™ Torsion Spring only.

#### **Premium Perforations**

#### **AVAILABLE ON STEEL PANELS**



#### **CUSTOM STEEL PERFORATIONS**

Over 30 custom perforations are available on our steel and aluminum panels. Contact TechLine for assistance with your project at 1 877 276-7876.



01 % open area

% Open Area:

6%

% Open Area:

[.157 x .157"]

25%

% Open Area:

58%

Tegular smooth texture



#### TrioGuard™ **Dirt-Resistant** Coating





Now get Total Acoustics® performance with MetalWorks Tegular perforated panels - excellent noise reduction and sound blocking in one system.

#### **KEY SELECTION ATTRIBUTES**

- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- - Available with TrioGuard™ coating that resists dirt, bacteria, mold, mildew, and color fading
- · Panels can be used to create continuous looks or clouds using Axiom® or Effects™ Wood Looks trim
- MetalWorks Tegular panels available for TechZone® ceiling systems applications; see pages 337-344 for details
- · Standard perforations available to enhance acoustical performance and design aesthetics
- · Outstanding NRC with acoustical fleece or infill panel (0.65 – 0.90)
- BioAcoustic<sup>™</sup> infill panels can enhance acoustics and contribute to LEED<sup>®</sup> credits
- 18" x 18" MetalWorks Tegular panels available for Metaphors® Coffers; see pages 281-282 for details

### 



White with TrioGuard Coating (WH3G)





(SG)

Effects Dark

Cherry (FXDC)



Gun Metal Grey (MY)



(WH)

Effects Cherry Effects Maple













Custom Colors Available

#### PERFORATION OPTIONS (1:2 scale shown

M1

(Unperforated)



(Microperforated) Microperforated)

M3 (Extra

Custom Perforations

Available

## (FXMP) **DETAILS**







(FXWN)

- 1. MetalWorks Tegular Microperforated
- 2. MetalWorks Tegular Extra Microperforated
- 3. Effects Wood Looks Tegular Extra Microperforated

Tegular smooth texture

ISUAL SELI	ECTION				PERFORMA		Dots repre level of pe		
dge Profile	Item No. ◆	Dimensions Nominal W x (Inches) Custom Sizes Available	L	Perforations	Light Reflect	Wash Wash	Scrub	Impact	Soil Soil
/IETALWORK	S™ Flush Tegular	(with acoustical	fleec	e)	(White Only)		— Durab	ility ——	
5/16" Flush egular	6461	24" x 24" [		M1, M2	0.77 (M1, M3) 0.61 (M2)	•	•	•	•
/IETALWORK	S 5/16" Square Te	egular (with ac	ousti	ical fleece)					
5/16" Square egular	6462	24" x 24" [		M1, M2, M3	0.77 (M1, M3) 0.61 (M2)	•	•	•	•
i/16" Square egular	6464 ◆◆	• 24" x 24" [							
/IETALWORK	S 5/8" Square Teg	gular (with acou	ustica	al fleece)					
5/16" Square regular	6463 †	24" x 24" [		M1, M2	0.77 (M1, M3) 0.61 (M2)	•	•	•	•
1/16" Square legular	6465†	24" x 24" [							

When specifying or ordering, include the appropriate perforation, letter color, and, if needed, coating suffix with the

item number (e.g., 6461 <u>M 1 W H 3 G</u>).

Available in Effects™ Wood Looks finishes. NOTE: Perforation M2 not available in Effects finishes as a standard option. "S" Service item with extended lead time.

### LOCATION DEPENDENT

### ACOUSTICAL INFORMATION

Performance determined by perforation size Total Acoustics<sup>1</sup> Panel Number Perforation Infill М1 36

For LEED contribution contact TechLine

NOTE: Available with TrioGuard™ Coating

M2	ated	8200100	0.90	N/A	-
	Microperforated	5479	0.85	N/A	-
• • •	Micro	5823	0.85	N/A	-
		1713	0.70	37	BETTER
		2820	0.80	35	BEST
M3	ated	8200100	0.70	N/A	_
	operfor	5479	0.70	N/A	-
	Extra Microperforated	5823	0.70	N/A	-
	Extr	2820	0.60	40	G00D

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

For perforation % open area, refer to Pages 103-106. For infill panel information, refer to Page 140.

EXAMPLE: 6464 M1 WH 3G Finish: TrioGuard™ Perforation: Dimension/Type: 15/16" Square Tegular M1 White Unperforated

#### TOTAL ACOUSTICS® PANEL INSTALLATION



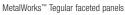
MetalWorks™ Tegular ceiling panel with Calla® 2820 acoustic infill panel for Total Acoustics® performance



Tegular Installation Details

#### **FACETED INSTALLATION**

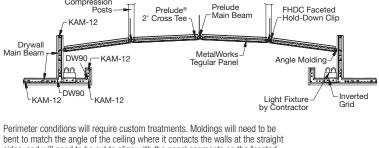




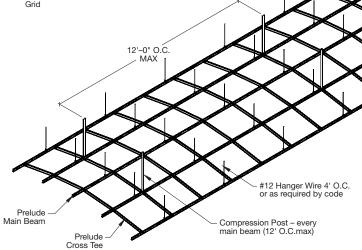


 $MetalWorks^{^{\mathrm{TM}}}\ Tegular\ faceted\ panels$ 

#### **FACETED PERIMETER DETAILS**



Perimeter conditions will require custom treatments. Moldings will need to be bent to match the angle of the ceiling where it contacts the walls at the straight sides, and will need to be cut to align with the panel segments on the faceted sides. It is recommended to have these installations tie into a wall or drywall bullhead rather than to attempt to create a floating ceiling condition.

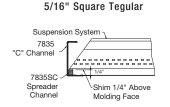


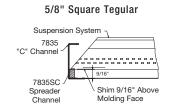


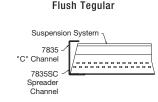
#### Tegular

Perimeter Details, Accessories and Suspension Systems

PERIMETER INSTALLATION DETAILS (Spreader channel inserts into "C" channel with spring border clip item 7870 (Pg. 156).





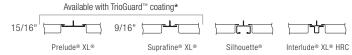


ACCESSORIES	For additional accessories	, including moldings and	perimeter trim, see Pgs. 15	55-156.

tem No. ◆	Description	Dimensions (Inches)	Pieces/Carton
5342	2" Effects™ Wood Looks Trim	120 x 3/4 x 2"	6
5344	4" Effects Wood Looks Trim	120 x 4 x 4"	6
346	6" Effects Wood Looks Trim	120 x 6 x 6"	6
6098	Edge Cap for Cut Vector® Panels not available in Effects colors, order in Black (BL)	Nominal 24" length	50
34008	Single Single Slot Air Diffuser not available in Effects colors, order in Black (BL)	24" x 24"	1
XSPTHDC	Effects™ Hold-Down Clip for Cut Panel Installations	N/A	10
FHDC	Faceted Hold-Down Clip	N/A	10
713	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	14
820	Calla® Square Lay-in Acoustic Panel	24 x 24 x 1"	10
6479	BioAcoustic™ Infill Panel (Beige – Matte)	24 x 24 x 5/8"	12
5823	BioAcoustic™ Infill Panel (Black – Matte)	24 x 24 x 5/8"	12
200100	1" Fiberglass Infill Bag (Black – Gloss)	24" x 24"	12

♦ When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6098 B L).

#### SUSPENSION SYSTEMS



\* For more information about TrioGuard™ coating for suspension system, refer to Prelude® XL®, Pgs. 391-392, Suprafine® XL®, Pgs. 399-400 and angle molding Pg. 156. Prelude and Suprafine suspension systems are available in coordinating colors. All other suspension systems are available in standard White only. Other colors available as special order.

### PHYSICAL DATA

### Material

Electrogalvanized Steel - 0.021" thickness

Surface Finish Factory-applied powder-coated finish (post-coated for color and/or TrioGuard  $^{\rm m}$  coating).

Product tested to be fade-resistant up to 10 years. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

**Fire Performance**ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

#### **Acoustical Performance**

CAC testing conducted using Prelude® XL® for 15/16" edge detail and Silhouette® for 9/16" edge detail.

# **ASTM E1264 Classification**

Fire Class – Class A Unperforated – Type XX, Pattern G Perforated – Type XX, Pattern C

armstrongceilings.com/installation.

Installation Consideration
For Tegular faceted installations, a faceted Hold-Down Clip
must be used, which will limit accessibility. If accessibility
is required in a faceted application, use Vector® panels. For information about faceted applications with square Tegular panels in 15/16" suspension system, refer to installation instructions on our web site at

#### Seismic Restraint

MetalWorks<sup>™</sup> Tegular panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

LEED® is a registered trademark of the U.S. Green Building Council All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America

### Warranty

Details at armstrongceilings.com

#### Weight; Square Feet/Carton

6461M2 – 0.75 lbs/SF; 64 SF/Ctn 6461M1 – 0.80 lbs/SF; 64 SF/Ctn 6462M2 – 0.86 lbs/SF; 64 SF/Ctn 6462M1, 6463M2, 6465M2, 6462M3 - 0.89 lbs/SF;

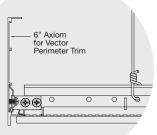
64 SF/Ctn 6464M2, 6463M1, 6465M1, 6464M3 -0.92 lbs/SF; 64 SF/Ctn 6464M1 - 0.97 lbs/SF; 64 SF/Ctn



### Vector® and Vector Exterior smooth texture



CAD/Revit® drawings at: armstrongceilings.com





Durable, steel panels offer a 1/4" reveal and 100% downward accessibility.

#### **KEY SELECTION ATTRIBUTES**



- Available with TrioGuard  $^{\scriptscriptstyle\mathsf{TM}}$  coating that resists dirt, bacteria, mold, mildew, and color fading
- Exclusive Vector® panel edge profile installs on new or existing 15/16" exposed tee suspension system resulting in a thin 1/4" reveal
- · Panels can be used to create continuous looks or clouds using Axiom® trim or Effects™ Wood Looks trim
- · Standard perforations available to enhance acoustical performance and design aesthetics
- · Exterior system available, tested to meet wind uplift Classes 30, 60, and 90
- · Outstanding NRC with acoustical fleece or infill panel (0.65 - 0.90)
- · Installs with minimal plenum clearance
- · Plenum access per panel without the need of special tools

COLORS Due to printing limitations, shade may vary from actual product.



White with TrioGuard™

Coating (WH3G)



(SG)











(FXWN)



Espresso (FXWE)



Cherry (FXDC) NOTE: Effects colors are only available for unperforated and extra microperforated panels.

### Exterior

White Exterior (WH2)

Silver Grey Exterior (SG2)

Gun Metal Grey Exterior (MY2)

Grey (MY)

Effects Maple Effects Cherry Exterior (FXMP2)

Exterior (FXCH2)

Effects Dark Cherry Exterior (FXDC2)

Effects Walnut Exterior (FXWN2)

Effects Oak (FXOK2)

Effects Walnut Espresso Exterior (FXWE2)

#### **DETAILS**







- 1. MetalWorks™ Vector® Microperforated
- 2. MetalWorks Vector Extra Microperforated
- 3. MetalWorks Vector Unperforated with Prelude® XL® 15/16" suspension system

#### PERFORATION OPTIONS (1:2 scale shown









M3 (Extra M2 (Unperforated) (Microperforated) Microperforated) Available

Vector® and Vector Exterior smooth texture

#### VISUAL SELECTION

15/16" Vector®

PERFORMANCE

0.61 (M2)

Dots represent high level of performance

#### ACOUSTICAL INFORMATION

RECYCLED CONTENT

NRC CAC Perforation Open Area М1 36 0% Jnperforated

NOTE: Available with TrioGuard™ Coating

			-	
M2	Micro- perforated	18.4%	0.70 • 0.90*	31**
M3	icro- ated	1.5%	0.65	33**
• • •	Extra Micro- perforated		0.70 <b>*</b>	

- NRC 0.90 (microperforated) with optional fiberglass infill #8200100. NRC 0.70 (extra microperforated) with optional BioAcoustic™ infill #5479 or 5823. With optional field-cut #770 mineral fiber backing
- (cannot be used in addition to fiberglass infill #8200100).

Edge Profile	ltem No. ◆	Dimensions (Inches)	Perforations	Light Reflect	- Wash	Scrub	Impact	Soil
METALWORKS™ Vector®				(White On	y)	— Dura	bility —	
1/4" Reveal with	6466	24" x 24" 🔲	M1, M2, M3	0.77 (M1,	M3) •	•	•	•

When specifying or ordering, include the appropriate color, perforation and, if needed, coating suffix with the item number (e.g., 6466 M 1 W H, 6466 M 3 E X C H, or 6466 M 1 W H 3 G).
NOTE: Perforation M1 available with TrioGuard™coating

Perforation M2 available in Effects finishes as a custom option and a 1,000 SF minimum order quantity.

ACCESSORIES For additional accessories, including moldings and perimeter trim, see pgs. 140-141.

Item No. ◆	Description	Dimensions (Inches)	Pieces/Carton
5342	2" Effects™ Wood Looks Trim	120 x 3/4 x 2"	6
5344	4" Effects Wood Looks Trim	120 x 4 x 4"	6
5346	6" Effects Wood Looks Trim	120 x 6 x 6"	6
5479	BioAcoustic™ Infill Panel (Beige – Matte)	24 x 24 x 5/8"	12
5823	BioAcoustic™ Infill Panel (Black - Matte)	24 x 24 x 5/8"	12
6098**	Edge Cap for Cut Vector Panels not available in Effects colors, order in Black (BL)	Nominal 24" length	50
8200100	1" Fiberglass Infill Bag (Black - Gloss)	24" x 24"	12
84008**	Single Slot Air Diffuser not available in Effects colors, order in Black (BL)	24" x 24"	1
FXSPTHDC	Effects™ Hold-Down Clip for Cut Panel Installations	N/A	10

<sup>\*\*</sup> Available in Effects™ Wood Looks finishes.

#### SUSPENSION SYSTEMS



<sup>\*\*\*</sup> For more information about TrioGuard™ coating for Prelude® XL® suspension system, see Pgs. 391-392.

#### PHYSICAL DATA

#### Material

Electrogalvanized Steel – 0.021" thickness

#### Surface Finish

Factory-applied powder-coated finish (post-coated for color and/or TrioGuard" coating). Exterior: Factory-applied powder-coated finish (post-coated on both sides). Effects finish on face only. Product tested to be fade-resistant up to 10 years. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

Fire Performance
Tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

> TechLine / 1 877 276-7876 armstrongceilings.com/metalworks (search: metalworks vector) BPCS-5110-517

#### **ASTM E1264 Classification** Fire Class - Class A

Unperforated – Type XX, Pattern G Perforated – Type XX, Pattern C

#### Installation Consideration

For information about accessible faceted applications, refer to installation instructions on our web site at armstrongceilings.com/installation.

#### Wind Uplift Performance

MetalWorks<sup>™</sup> Vector® panels for exterior applications have been tested to meet wind uplift Classes 30, 60, and 90. There is no fleece on exterior panels. Visit armstrongceilings.com/metalworks or contact TechLine at 1 877 276-7876 for installation instructions and test documentation.

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#### Seismic Restraint

MetalWorks™ Vector® panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Details at armstrongceilings.com

Weight; Square Feet/Carton 6466M1, 6466M3 – 1.15 lbs/SF; 40 SF/ctn 6466M2 – 1.10 lbs/SF; 40 SF/ctn Contact TechLine for weight information on panels with M4, M5, and M6 perforations.



# METALWORKS™ Clip-on

smooth texture



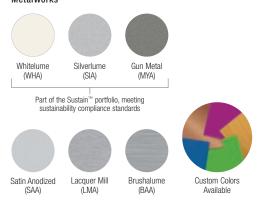
Easy-to-install, downward-accessible panels are perfect for renovations.

#### **KEY SELECTION ATTRIBUTES**

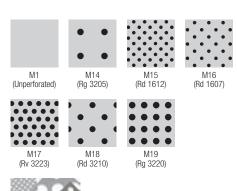
- Great for renovations transform spaces with existing 15/16" suspension quickly and easily
- MetalWorks Clip-on panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only.
- Choose from butt joint, 1/4", or 1/8" panel reveals
- 24" x 24" and 24" x 48" standard sizes; custom sizes available up to 24" x 48"
- Fixture frames provide a clean, finished look
- NRC values up to 0.90 with fiberglass infill panels

## 

### MetalWorks



#### PERFORATION OPTIONS (1:2 scale shown)





Custom Perforations Available

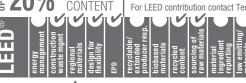


smooth texture

Declare<sup>™</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceilina Systems Unperforated (M1)

**PERFORMANCE** 



ACOUSTICAL INFORMATION

Dots represent high

level of performance

WITH INFILL PANEL

#### VISUAL SELECTION

Edge Profile	ltem No. ◆	Dimensions (Inches) W x L x H Custom Sizes	Light Reflect
METALWORKS™ CII	n-on	Available	
Butt Joint	7110	24 x 24 x 1"	0.77
	7111	24 x 48 x 1"	0.77
1/8" Reveal	7140	24 x 24 x 1"	0.77
	7141	24 x 48 x 1"	0.77
1/4" Reveal	7154	24 x 24 x 1"	0.77
	7155	24 x 48 x 1"	0.77

♦ When specifying or ordering, include appropriate perforation and color suffix (e.g., 71110 <u>M 1 L M A</u>) with item number. NOTE: Light reflectance is for unperforated Whitelume.

#### STOCKED ITEMS

Item No.	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
7110M1CTN10WHA	_	Nominal 24"	Whitelume	10
7110M1CTN10SIA	_	Nominal 24"	Silverlume	10
7110M15CTN10WHA	_	Nominal 24"	Whitelume	10
7110M15CTN10SIA	_	Nominal 24"	Silverlume	10

#### **ACCESSORIES**

Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
Box Molding	1 x 96 x 1"	WHA, SIA, MYA, SAA, LMA, BAA	10
Spreader Hold Down	1 x 10-5/8 x 1"	N/A	40
Fixture Frame	24" x 24"	WHA, SIA, MYA, SAA, LMA, BAA	1
Fixture Frame	24" x 48"	WHA, SIA, MYA, SAA, LMA, BAA	1
Perimeter Trim	1 x 96 x 4-1/4"	WHA, SIA, MYA, SAA, LMA, BAA	10
BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12
	Box Molding  Spreader Hold Down  Fixture Frame  Fixture Frame  Perimeter Trim  BioAcoustic™ Infill Panel	DescriptionNominal W x L x HBox Molding1 x 96 x 1"Spreader Hold Down1 x 10-5/8 x 1"Fixture Frame24" x 24"Fixture Frame24" x 48"Perimeter Trim1 x 96 x 4-1/4"BioAcoustic™ Infill Panel24 x 24 x 5/8"	DescriptionNominal W x L x HColorBox Molding1 x 96 x 1"WHA, SIA, MYA, SAA, LMA, BAASpreader Hold Down1 x 10-5/8 x 1"N/AFixture Frame24" x 24"WHA, SIA, MYA, SAA, LMA, BAAFixture Frame24" x 48"WHA, SIA, MYA, SAA, LMA, BAAPerimeter Trim1 x 96 x 4-1/4"WHA, SIA, MYA, SAA, LMA, BAABioAcoustic™ Infill Panel24 x 24 x 5/8"Black

Perforati	on	NRC with acoustical fleece	NRC with 1" fiberglass infill **
		NRC	NRC
M1	Unperforated	-	-
M14 • •	Rg 3205	0.55	0.85
M15	Rd 1612	0.70	0.90
M16	Rd 1607	0.70	0.80
M17	Rv 3223	0.75 •	0.90
M18	Rd 3210	0.65	0.85
M19	Rg 3220	0.75 •	0.90

<sup>\*\*</sup> Maximum NRC achieved with acoustical infill (item 8200100).



#### SUSPENSION SYSTEMS



#### PHYSICAL DATA

Aluminum - thickness 0.040'

**Surface Finish**Painted finishes: Factory-applied polyester paint. Custom colors also available.

Fire Performance
Painted aluminum finishes tested per ASTM E84.
Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

Painted Aluminum finishes CAN/ULC S102 surface burning characteristics: Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

Perforated panels are supplied with a black fiberglass fleece to absorb sound.

#### Recycled Content

Un to 20%

### **Installation Considerations**

Ensure suspension is level and square, whether using existing or new suspension system.

#### **Design Considerations**

Panel face sits 1" lower than the suspension system. Some light, sprinklers, and other components may need to be height adjusted when retrofitting.

Panels have a directional finish; follow direction arrows printed on the protective film

Anodized and Lacquer Mill finishes may vary in shade between production runs as well as over time. Sizes can be mixed and matched on non-perforated panels only.

Butt joint panels are recommended if the suspension system is not coordinated with the panel color.

LEED® is a registered trademark of the U.S. Green Building Council Declare<sup>™</sup> is a service mark of International Living Future Institute Revit<sup>®</sup> is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America MetalWorks™ steel and aluminum panels are made at different manufacturing facilities that use different paint systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MatalWorks products. MetalWorks products.

#### Seismic Restraint

MetalWorks Clip-on panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Design Support

Project management assistance is available by calling TechLine at 1 877 276-7876.

Warranty One (1) Year Limited Warranty. Details at armstrongceilings.com

#### Weight

0.75 lbs/SF



## METALWORKS™ Concealed

smooth texture



Large-size panels with concealed suspension are 100% accessible.

#### **KEY SELECTION ATTRIBUTES**

- Narrow 1/4" reveal offers clean, monolithic look
- · Hook-on panels provide safe and secure downward accessibility
- · Create continuous look or use with clouds and perimeter trim
- Lightweight panels install with standard 15/16" suspension system
- · Complete standard system from one manufacturer



Silver Grey (SG)



Gun Metal Grey (MY)

PERFORATION OPTIONS (1:2 scale shown)









WITH INFILL PANEL

## METALWORKS™ Concealed

Item

METALWORKS™ Concealed

No. ◆

6664\_ \_ \_ \_ \_

6665\_ \_ \_ \_ \_

6666\_ \_ \_ \_ \_

6667\_ \_ \_ \_ \_

6668\_ \_ \_ \_ \_

smooth texture

Edge

Profile

1/4" Reveal

PERFORMANCE VISUAL SELECTION

Perforations

M1: M10

M1; M10

M1: M10

**Dimensions** (Inches)

24 x 96 x 5/8"

48 x 48 x 5/8"

48 x 96 x 5/8"

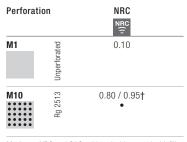
24 x 120 x 5/8" M1; M10

WxLxH

Dots represent high level of performance.

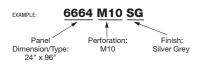
		710. 0. po		
Light Reflect	Wash	Scrub	Impact	Soil
- Re Cric		mmi	<b>⊗</b> ′^`\	<b>.</b>
(White Only)		— Dura	bility —	
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•

ACOUSTICAL INFORMATION



Maximum NRC and CAC achieved with acoustical infill options. For additional Infill options, refer to Pg. 140. † With BioAcoustic™ infill item 5479. NRC of 0.90 with

fiberglass infill 8200100, NRC 0.80 as sold.



48 x 120 x 5/8" M1; M10

#### **ACCESSORIES**

Item No. ◆	Description	Dimensions (Inches)	Color	Pieces/Carton
6656M1	MetalWorks Concealed Trim	6" x 120"	WH, SG, MY	6
7842A	Slip-on Molding	1/2 x 120 x 5/8"	WH, SG, MY	40
FXTBC	T-bar Connector Clip	-	-	10
FX4SPLICE	Splice Plate with Set Screws	-	-	10
8200100	Fiberglass Infill Panel	24 x 24 x 1"	Black (Gloss)	12
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12

0.77 (M1)

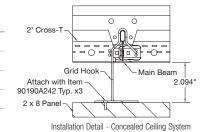
0.77 (M1)

#### SUSPENSION SYSTEM

15/16" Heavy-duty Prelude® XL® Suspension System (See Pgs. 365-366 for components.)

5986	T-Bar Hook†	Nominal 4 x 2 x 3"	50	
90190A242	#10 Pan Head Sheet Metal Screw	1/2"	100	
6091	Safety Cable	24" x 3/32"	50	
SH12	Support Hanger	144" x 2"	12	

<sup>†</sup> For 24" x 96", 48" x 48", and 48" x 96" panels, install 4 hooks per panel; for 24" x 120" and 48" x 120" panels install 6 hooks per panel. NOTE: Refer to installation instructions at armstrongceilings.com/installation for a better understanding of suspension requirements



#### PHYSICAL DATA

Material

Aluminum composite – 0.57" thick

Surface Finish

Factory-applied powder-coated finish (post-coated)

**Acoustical Performance** 

MetalWorks Concealed perforated panels provide outstanding acoustical correction. NRC 0.95 achieved with acoustical infill item 5823. See CS-4172 for more information on infill panels.

Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed 50 or less

Installation Considerations
Please refer to installation instructions LA-297890 before installing MetalWorks Concealed panels.

Seismic Restraint

MetalWorks Concealed panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong installation instructions.

Warranty

Details at armstrongceilings.com

Weight 0.97 lbs/SF (Bulk packaged)

TechLine / 1 877 276-7876 armstrongceilings.com/metalworks (search: metalworks concealed) BPCS-5112-517

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<sup>◆</sup> When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 6664 M 1 M Y).

## METALWORKS™ Linear **METALWORKS** Linear Exterior

smooth texture

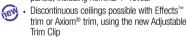


Durable, metal panels in more widths for a variety of flexible and unique acoustical interior/exterior solutions.

#### **KEY SELECTION ATTRIBUTES**



- · New universal suspensions system will enable easy installation and a clean finished visual
- Nominal 2", 4", 6", 8", 10", and 12" wide panels, including nominal 1" reveal



- · Mix and match widths for a striated visual
- . Install in the ceiling, on the wall
- Create 90° angled or curved ceiling-to-wall transitions
- Available for exterior applications, tested to meet wind uplift Classes 30, 60, and 90
- · Acoustical options with microperforated panels
- · Fast and easy installation

### 



(WH)



Silver Grey Gun Metal Grey (MY)





Effects Maple Effects Cherry



Effects Dark

Cherry (FXDC)











PERFORATION OPTIONS (1:2 scale shown)

(Microperforated)

(Unperforated)



White Exterior (WH2)

Silver Grey Exterior (SG2)

Gun Metal Grey Exterior (MY2) Effects Maple Exterior (FXMP2)

(FXMP)

Effects Cherry Exterior (FXCH2)

Effects Dark Cherry Exterior (FXDC2)

Effects Walnut Exterior (FXWN2)

Effects Oak Exterior (FXOK2)

Effects Walnut Espresso Exterior (FXWE2)

## METALWORKS™ Linear **METALWORKS** Linear Exterior

smooth texture

**VISUAL SELECTION** 

Declare<sup>s</sup> Living Building Challenge Compliant High Performance Sustainable Ceiling Systems Unperforated (M1)



LOCATION DEPENDENT

**PERFORMANCE** Dots represent high level of performance.

ltem No. ◆	Description	Dimensions Nominal W x L (Inches) Custom Sizes Available	. х Н		Fire Rating	Light Reflect	Wash	Scrub	Impact	<b>√</b> Scratch	Soil	Acoustics
METALWORK	(S™ Linear Planks					(White Only)			Durability			
8120	2" Unperforated	96 x 2 x 5/8"		-	Class A	0.77	•	•	•	•	•	N/A
5490	4" Unperforated	96 x 4 x 5/8"			Class A	0.77	•	•	•	•	•	N/A
7160	6" Unperforated	96 x 6 x 5/8"			Class A	0.77	•	•	•	•	•	N/A
5491	8" Unperforated	96 x 8 x 5/8"			Class A	0.77	•	•	•	•	•	N/A
<b>8122</b>	10" Unperforated	96 x 10 x 5/8"		 ]	Class A	0.77	•	•	•	•	•	N/A
5570	12" Unperforated	96 x 12 x 5/8"		]	Class A	0.77	•	•	•	•	•	N/A
<b>8121</b>	2" Microperforated (with plain border and acoustical fleece)	96 x 2 x 5/8"		<u>.</u>	Class A	0.61	•	•	•	•	•	N/A
5492	4" Microperforated (with plain border and acoustical fleece)	96 x 4 x 5/8"			Class A	0.61	•	•	•	•	•	0.70 0.85*
7161	6" Microperforated (with plain border and acoustical fleece)	96 x 6 x 5/8"			Class A	0.61	•	•	•	•	•	0.70 0.85*
5493	8" Microperforated (with plain border and acoustical fleece)	96 x 8 x 5/8"		]	Class A	0.61	•	•	•	•	•	0.70 0.85*
<b>8123</b>	10" Microperforated (with plain border and acoustical fleece)	96 x 10 x 5/8"		]	Class A	0.61	•	•	•	•	•	0.70 0.85*
5571	12" Microperforated (with plain border and	96 x 12 x 5/8"		]	Class A	0.61	•	•	•	•	•	0.70 0.85*

<sup>◆</sup> When specifying or ordering, include the appropriate 2-, 3-, 4-, or 5-letter color suffix (e.g., 5490M2 WH, 5490 WH, 2, 5490M2 EXCH, 5490 EXCH 2).

\* NRC 0.85 with optional fiberglass infill. For acoustical infill panel information, see page 156.

#### PHYSICAL DATA

#### Material

Electrogalvanized Steel – thickness 0.028"

#### Surface Finish

Available in White, Silver Grey, Gun Metal Grey, and Effects<sup>™</sup> Wood Looks powder-coated, post-production finishes. Panels are finished on both sides for exterior applications. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

acoustical fleece)

#### **Edge Detail**

Square with extended flange. To create contrast visual, flange is covered with 1-1/4" Black Contrast Filler Strip item 5494.

#### Fire Performance

Tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

ASTM E1264 Classification Fire Class – Class A Unperforated – Type XX, Pattern G Perforated – Type XX, Pattern C

#### Seismic Restraint

MetalWorks<sup>™</sup> Linear panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Wind Uplift Performance

All panels tested for wind uplift Classes 30, 60, and 90. Specific installation recommendations to meet these wind classes are available. There is no acoustical fleece on exterior panels. For more information, contact TechLine at 1 877 276 7876.

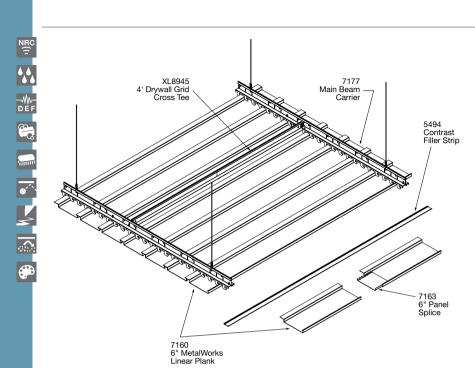
Warranty Details at armstrongceilings.com

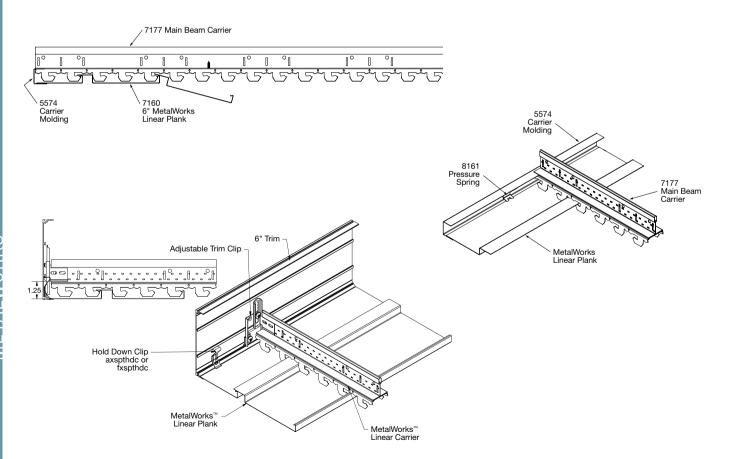
Weight; Square Feet/Carton 8120, 8121 – 1.61 lbs/SF; 24 pcs/ctn or 192 LF/ctn; 32 SF/ctn 5490, 5492 – 1.61 lbs/SF; 16 pcs/ctn or 128 LF/ctn; 43 SF/ctn 5491, 5493 – 1.61 lbs/SF; 10 pcs/ctn or 80 LF/ctn; 53 SF/ctn 5570, 5571 – 1.61 lbs/SF; 6 pcs/ctn or 48 LF/ctn; 48 SF/ctn 8122, 8123 – 1.61 lbs/SF; 8 pcs/ctn or 64 LF/ctn; 45 SF/ctn 7160, 7161 – 1.61 lbs/SF; 12 pcs/ctn or 96 LF/ctn; 48 SF/ctn



## METALWORKS™ Linear METALWORKS Linear Exterior

Installation Details







## METALWORKS™ Linear METALWORKS Linear Exterior

Accessories & Suspension System Components

#### **ACCESSORIES**

Item Number•	Description	Dimensions Nominal L x W x H (Inches)	Pieces/ Carton	Colors
8161	Pressure Spring	3/4 x 3/4 x 1-1/8"	50	-
8138	2" End Cap	1 x 2 x 5/8"	50	Interior/Exterior Colors
5581	4" End Cap	1 x 4 x 5/8"	50	Interior/Exterior Colors
7162	6" End Cap	1 x 6 x 5/8"	50	Interior/Exterior Colors
5582	8" End Cap	1 x 7 x 5/8"	50	Interior/Exterior Colors
8139	10" End Cap	1 x 10 x 5/8"	50	Interior/Exterior Colors
5583	12" End Cap	1 x 12 x 5/8"	50	Interior/Exterior Colors
8159	2" Panel Splice	4 x 2 x 1/2"	50	N/A
5495	4" Panel Splice	4 x 3-1/4 x 9/16"	50	N/A
7163	6" Panel Splice	4 x 6 x 1/2"	50	N/A
5496	8" Panel Splice	8 x 7-1/4 x 9/16"	50	N/A
7237	Cut Plank Support Bracket	2-1/2 x 2-1/2 x 1-1/4"	50	N/A
7239	Adjustable Trim Clip	-	50	N/A
5494	Contrast Filler Strip Black	96 x 1/4 x 1/16"	16	N/A

 $<sup>\</sup>bullet \ \ \text{When specifying or ordering, include the appropriate 4- or 5-letter color suffix (e.g., 5574 ~\underline{F} ~\underline{X} ~\underline{C} ~\underline{H}, 5574 ~\underline{F} ~\underline{X} ~\underline{C} ~\underline{H} ~\underline{2}). }$ 

Item No. ◆	Description	Dimensions Nominal L x W x H (Inches)	Pieces/ Carton	Colors
AX6VESTR	Axiom® Vector Trim - 6" Straight	3/4 x 120 x 6"	-	WH, SG, MY, BL
5346	6" Effects™ Wood Looks Trim	Nominal 120" length	6	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE

<sup>◆</sup> When specifying or ordering, include the appropriate 2- or 4-letter color suffix (e.g., AX6VESTR W H, 5346 F X C H).

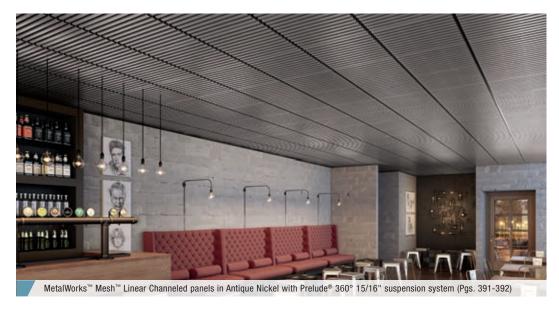
SUSPENSION SYSTEM COMPONENTS
------------------------------

Item No.	Description	Dimensions Nominal L x W x H (Inches)	Pieces/ Carton
7177	Main Beam Carrier Assembly	144 x 1-3/4 x 2-3/4"	10
5574	Carrier Molding	120 x 1 x 1"10	10
XL8945P	4' Drywall Cross Tee (for interior installations)	48 x 1-1/2 x 1-1/2"36	36
XL7936G90	3' Drywall Cross Tee (for exterior installations)	36 x 1-1/2 x 1-1/2"	36
XL8926G90	2' Drywall Cross Tee (for exterior installations)	24 x 1-1/2 x 1-1/2"	36

NOTE: Due to the non-standard suspension system of this product, call TechLine at 1 877 276-7876 to place an order.



Lay-in & Tegular



plus... capabilities to do more armstrongceilings.com/capabilities See more photos at: armstrongceilings.com/photogallery

Now get MetalWorks<sup>™</sup> Mesh<sup>™</sup> panels with updated patterns and tegular edges.

#### **KEY SELECTION ATTRIBUTES**

- · Thirty-two standard designs on 24" x 24" ceiling panels, including 8 new Tegular panels
- - 10 standard colors, including new Antique Nickel finish, plus custom colors available
- · Variety of standard colors, plus custom colors available
- · Flexible design use as accent borders, clouds, or full ceilings
- Simple installation panels lay in standard 15/16" suspension system with borders or finished edges
- Can be used in Formations<sup>™</sup> Clouds
- · Black acoustic panels provide sound absorption and hide plenum

#### MESH FINISHES - Powder Coated







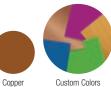
Gun Metal



Tech Black



Bronze



- Due to printing limitations, shade may vary from actual product.
- \* Not available on Cascades \*\* Premium options – may have longer lead times
- \*\*\* Not available on Tegular Expanded Metal or Cascades
- † Not available as a coordinating suspension system color

### MESH FINISHES - Anodized for Cascades



Natural

Cascades also available with Powder Coated Finishes, except Nickel

Bright Anodized (BA)†

Anodized (NA)†

#### MESH FINISHES - Plated Antique Nickel



Antique Nickel finish reflects the light with a beautiful true metallic finish. Finish will have shade variation depending on viewing angle. Black grid recommended.







Grey (MY)







**COORDINATING SUSPENSION SYSTEM COLORS** 

Silver Satin (SA)

Black (BI)



Available



Lay-in & Tegular

#### WOVEN WIRE (1:6 scale shown)

# energenaria energe

LOCATION DEPENDENT

RECYCLED CONTENT

WITH INFILL PANEL

## Square Weave – Square Lay-in



1Cell Item 6415AM Spacing: 0.86" x 0.86" Wire Diameter: 0.11" % Open Area: 76%



2Cell Item 6416AM Spacing: 1.39" x 1.39" Wire Diameter: 0.135" % Open Area: 82%



Twin Round Narrow Item 6129AM Spacing: 0.25"/0.57"/ 0.25"/0.57" Wire Diameter: 0.80" % Open Area: 61%



Twin Flat Narrow Item 6412AM Spacing: 0.25"/0.75"/ 0.25"/0.75" Wire Diameter: 0.92" % Open Area: 53%



Twin Flat Wide Item 6410AM Spacing: 0.75"/2.25"/ 0.75"/2.25" Wire Diameter: 0.375" x 0.60" % Open Area: 56%



 Single Flat Narrow
 Single Item 8411AM

 Item 6411AM
 Item 8

 Spacing: 0.25" x 0.25"
 Wire D

 Wire Diameter: 0.92"
 0.375"

 % Open Area: 21%
 % Ope



Single Flat Wide Item 8199AM Wire Dimension: 0.375" x 0.60" % Open Area: 51%



Quad Round Narrow<br/>Item 8198AMOver-Und<br/>Item 8200Wire Diameter: 0.135"Wire Dimer<br/>0.250" x 0% Open Area: 77%0.250" x 0



Over-Under Square Item 8200AM Wire Dimension: 0.250" x 0.063" % Open Area: 34%

#### Linear Weave - Square Lay-in



Single Mini Item 6413AM Spacing: 0.32" x 0.32" Wire Diameter: 0.63" % Open Area: 57%



Single Narrow Item 6414AM Spacing: 0.105" Wire Diameter: 1.105" % Open Area: 52%



Triple Narrow Item 6128AM Spacing: 3.15" x 3.15" Wire Diameter: 0.12" % Open Area: 62%



Fine Rectangluar Item 8203AM Wire Dimension: 0.80' % Open Area: 47%





Fine Rectangluar Item 8195AM Wire Diameter: 0.80" % Open Area: 47%

#### Diamond Weave - Square Lay-in



1Diamond Item 6417AM Spacing: 0.86" x 0.86" Wire Diameter: 0.11" % Open Area: 76%



2Diamond Item 6418AM Spacing: 1.33" x 1.33" Wire Diameter: 0.14" % Open Area: 82%

#### Round Weave – Square Lay-in



Round Rectangular Item 8201AM Wire Diameter: 0.105" % Open Area: 75%



Twin Circle Item 8202AM Wire Diameter: 0.80" % Open Area: 41%

#### WELDED WIRE (Actual 1:6 scale shown)

#### Welded Wire - Square Lay-in



1Cell Item 6131AM Spacing: 1.0" x 1.0" Wire Diameter: 0.120" % Open Area: 76%



2Cell Item 6132AM Spacing: 2.0" x 2.0" Wire Diameter: 0.120" % Open Area: 88%



3Cell Item 6133AM Spacing: 3.0" x 3.0" Wire Diameter: 0.120" % Open Area: 92%

#### Welded Wire - Tegular



1Cell Item 8190AM Wire Diameter: 0.120"/.312" Tegualr Edge Rod % Open Area: 78%



2Cell Item 8191AM Wire Diameter: 0.120"/.312" Tegualr Edge Rod % Open Area: 88%



Linear Channel Item 8196AM Wire Diameter: 0.192" Wire Dimension: 0.044" Channel % Open Area: 50%



Linear Channel with Center Hole Item 8197AM Wire Diameter: 0.192" Wire Dimension: 0.044" Channel % Open Area: 60%

### **EXPANDED METAL** (Actual 1:6 scale shown)

### Expanded Metal – Square Lay-in



Lattice Item 6136AM Spacing: 0.036" % Open Area: 75%



Scallops Item 6137AM Spacing: 0.048" % Open Area: 61%



Trellis Item 6138AM Spacing: 0.060" % Open Area: 70%



Cascades Item 6139AM Spacing: 0.080" % Open Area: 23%

Expanded Metal – Tegular



Lattice Item 8192AM Wire Diameter: N/A % Open Area: 73%



Scallops Item 8193AM Wire Diameter: N/A % Open Area: 61%



Trellis Item 8194AM Wire Diameter: N/A % Open Area: 70%

For detailed pattern information including spacing wire diameters and open area, refer to the MetalWorks Mesh brochure BPCS-3713



Lay-in & Tegular

VISUAL SELECTION			PERFORMANCE level of performance.					nce.	
Edge Profile	Item No. ◆ Description	Panel Interior Opening Dimensions W x L x H (Inches)		% Open Area	Fire Rating	Wash Wash	Scrub	Impact	Soil Soil
WOVEN WIRE							— Dura	bility –	
Square Weave			_						
Square Lay-in	<b>6129AM</b> Twin Round Narrow	24 x 24 x 1/4"		61%	Class A	•	•	•	•
	<b>6410AM</b> Twin Flat Wide	24 x 24 x 1/4"		56%	Class A	•	•	•	•
	<b>6411AM</b> Single Flat Narrow	24 x 24 x 1/4"	_	21%	Class A	•	•	•	•
	<b>6412AM</b> Twin Flat Narrow	24 x 24 x 1/4"	_	53%	Class A	•	•	•	•
	<b>6415AM</b> 1Cell	24 x 24 x 1/4"	_	76%	Class A	•	•	•	•
	<b>6416AM</b> 2Cell	24 x 24 x 1/4"	_	82%	Class A	•	•	•	•
	8199AM Single Flat Wide	24 x 24 x 1/4"	_	51%	Class A	•	•	•	•
	8198AM Quad Round Narrow	24 x 24 x 1/4"	_	77%	Class A	•	•	•	•
	<b>8200AM</b> Over-Under Square	24 x 24 x 1/4"	_	34%	Class A	•	•	•	•
Linear Weave	C440AM	04 04 1/4	_		01 1				
Square Lay-in	6413AM Single Mini	24 x 24 x 1/4"	_	57%	Class A	•	•	•	•
	<b>6414AM</b> Single Narrow	24 x 24 x 1/4"		52%	Class A	•	•	•	•
	<b>6128AM</b> Triple Narrow	24 x 24 x 1/4"		62%	Class A	•	•	•	•
Lineau Managa	<b>8203AM</b> Fine Rectangular	24 x 24 x 1/4"		47%	Class A	•	•	•	•
Linear Weave Square Tegular	8195AM Fine Rectangular	24 x 24 x 1/4"	-	47%	Class A	•	•	•	•
Diamond Weave									
Square Lay-in	<b>6417AM</b> 1Diamond	24 x 24 x 1/4"	-	76%	Class A	•	•	•	•
Round Wasys	<b>6418AM</b> 2Diamond	24 x 24 x 1/4"	_	82%	Class A	•	•	•	•
Round Weave	0004 888	04 04 1/4#	_	750	01 ^				
Square Lay-in	<b>8201AM</b> Round Rectangular	24 x 24 x 1/4"		75%	Class A	•	•	•	•
	<b>8202AM</b> Twin Circle	24 x 24 x 1/4"		41%	Class A	•	•	•	•

# ◆ When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6129AM <u>S</u> <u>G</u>). NOTE: For acoustical infill panel information, see Pgs. 156-157.

#### **ACOUSTICAL INFORMATION**

Dots represent high

% Open Area		Infill Panel Item Number	NRC
21% Open	arrow	5823	0.85
Area	Single Flat Narrow	1713BL	0.70
	Single	2820BK	0.85
53% Open	ırrow	5823	0.85
Area	Twin Flat Narrow	1713BL	0.70
	Twin	2820BK	0.85
76% Open	l Cell	5823	0.85
Area	-	1713BL	0.75
20001 20001		2820BK	0.85

NOTE: Patterns with similar 5 open area will achieve similar acoustic results.

#### ACOUSTICAL PANEL INSTALLATION





Lay-in & Tegular

VISUAL SELECTION

For LEED contribution contact TechLine WITH INFILL PANEL LOCATION DEPENDENT Dots represent high

**PERFORMANCE** level of performance.

#### ACOUSTICAL INFORMATION

% Open Area		Infill Panel Item Number	NEC
21%	row	5823	0.85
Open Area	lat Nar	1713BL	0.70
	Single Flat Narrow	2820BK	0.85
53%	row	5823	0.85
Open Area	Twin Flat Narrow	1713BL	0.70
	Twin F	2820BK	0.85
76%	1 Cell	5823	0.85
Open Area	-	1713BL	0.75
100004 100001		2820BK	0.85

NOTE: Patterns with similar 5 open area will achieve similar acoustic results.

Edge Profile	Item No. ◆ Description	Panel Dimensions W x L x H (Inches)	% Open Area	Fire Rating	Wash Wash	Scrub	Impact	Soil Soil
WELDED WIRE						— Dura	bility —	
Square Lay-in	<b>6131AM</b> 1 Cell	24 x 24 x 1/4"	78%	Class A	•	•	•	•
	<b>6132AM</b> 2Cell	24 x 24 x 1/4"	88%	Class A	•	•	•	•
	<b>6133AM</b> 3Cell	24 x 24 x 1/4"	92%	Class A	•	•	•	•
Square Tegular	<b>8190AM</b> 1 Cell	24 x 24 x 1/4"	78%	Class A	•	•	•	•
	8191AM 2Cell	24 x 24 x 1/4"	88%	Class A	•	•	•	•
	8196AM Linear Channeled	24 x 24 x 1/4"	50%	Class A	•	•	•	•
	8197AM Linear Channeled – Center Hole	24 x 24 x 1/4"	60%	Class A	•	•	•	•
EXPANDED ME	TAL							
Square Lay-in	6136AM Lattice	24 x 24 x 1/4" SWD 0.250", LWD 0.500"	73%	Class A	•	•	•	•
	6137AM Scallops	24 x 24 x 1/4" SWD 0.295", LWD 0.394"	61%	Class A	•	•	•	•
	6138AM Trellis	24 x 24 x 1/4" SWD 0.515", LWD 1.200"	70%	Class A	•	•	•	•
	6139AM Cascades	24 x 24 x 1/4" SWD 0.950", LWD 2.000"	23%	Class A	•	•	•	•
	8192AM Lattice	24 x 24 x 1/4"	73%	Class A	•	•	•	•
	8193AM	24 x 24 x 1/4"	61%	Class A	•	•	•	•

When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6129AM  $\underline{S}$   $\underline{G}$ ). SWD = Short way of design LWD = Long way of design NOTE: For acoustical infill panel information, see Pgs. 156-157.

24 x 24 x 1/4"

### SUSPENSION SYSTEMS



(See Pgs. 391-392 for Prelude® XL® components.) (See Pg. 383 for 360° Painted Grid components.)

#### PHYSICAL DATA

All items, except Cascades panels, are cold-rolled steel. Cascades panels are made of aluminum.

Scallops

8194AM \_\_

Surface Finish All panels are available in a range of standard and custom smooth, factory-applied powder-coated finishes. Most panels can also be plated for an Antique Nickel finish which will have a variable patina for an authentic aged visual The anodized finishes (BA, NA) are available on Cascades panels only.

Fire Performance
ASTM E84 and CAN/ULC S102. Flame Spread Index
25 or less. Smoke Developed Index 50 or less.

All MetalWorks™ Mesh™ panels are non-combustible. As with other architectural features located at the ceiling, Mesh panels may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling the heat from a fire either toward or away from the device.

For panels that do not meet the criteria for open-suspension system ceilings, as defined by NFPA 13,

a 24" x 24" mineral fiber panel should be placed on the back of the Mesh panel when installing the ceiling, with the sprinkler installed below both panels.

Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

70%

Class A

### Acoustics Considerations

NRC-tested using white panels. Painted panels may experience a slight reduction in NRC due to color painting

Design Considerations
For more open MetalWorks Mesh items where the suspension system may be visible through the panels, consider using a 360° Painted Grid System coordinated with the panel color

Item 8196 should not be field cut. Use item 8197, with 5" center hole, for sprinklers, lighting, and other mechanicals. Additionally, care should always be taken when cutting metal. Olease see installation instructions for specific guidance on each type of mesh panel.

#### Installation Considerations

Printed in the United States of America

Hold-Down Clips may be required in some installations, see Pgs. 156-157. The edges of MetalWorks™ Mesh™.

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panels feature unique detailing. Use caution and wear appropriate hand and eye protection when installing or cutting these metal panels. Refer to Installation Instructions BPLA-297075 at armstrongceilings.com/metalworks for details and cutting recommendations.

### Warranty

Details at armstrongceilings.com

Weight/Panel (Bulk	Packed)	
6128AM - 4.2 lbs	6411AM - 8.2 lbs	8192AM - 0.48 lbs
6129AM - 6 lbs	6413AM - 5.1 lbs	8193AM - 0.59 lbs
6131AM - 4 lbs	6414AM - 6.9 lbs	8194AM - 0.76 lbs
6132AM - 2.3 lbs	6415AM - 3.3 lbs	8199AM - 1.63 lbs
6133AM - 1.6 lbs	6417AM - 3.3 lbs	8198AM - 1.2 lbs
6410AM - 4.8 lbs	6416AM - 3.2 lbs	8200AM - 2.02 lbs
6412AM - 4.8 lbs	6418AM - 3.2 lbs	8195AM - 1.86 lbs
6136AM - 1.8 lbs	8190AM - 0.75 lbs	8203AM - 1.76 lbs
6137AM - 2.8 lbs	8191AM - 0.75 lbs	8201AM - 1.13 lbs
6138AM - 1.7 lbs	8196AM - 1.99 lbs	8202AM - 1.92 lbs
6139AM - 2.1 lbs	8197AM - 1.82 lbs	

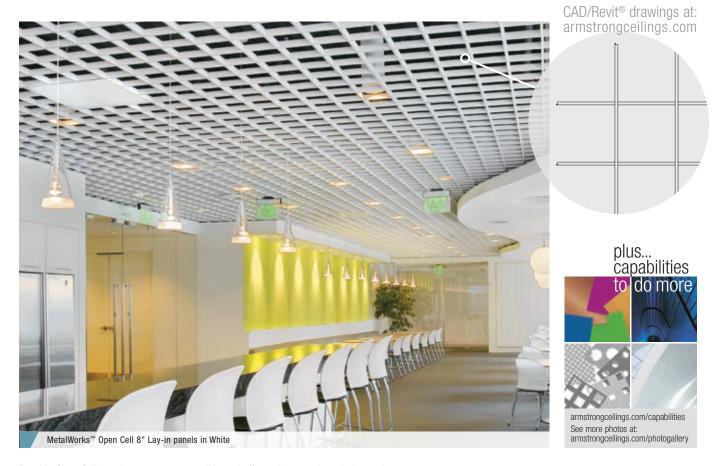
Minimum Order Quantity

100 Square Feet



## METALWORKS™ Open Cell

Square Lay-in



Durable Open Cell panels are 100% accessible and offer a clean, modern design option.

### **KEY SELECTION ATTRIBUTES**

- · Open look with crisp, white finish
- · Variety of design options
- · Helps mask the plenum
- · Lay-in system is fast and easy to install in a standard suspension system
- Framed 24" x 24" panels create seamless visual; no need for painted grid
- Durable post-production powder-coated finish

**COLOR SELECTION** Due to printing limitations, shade may vary from actual product.



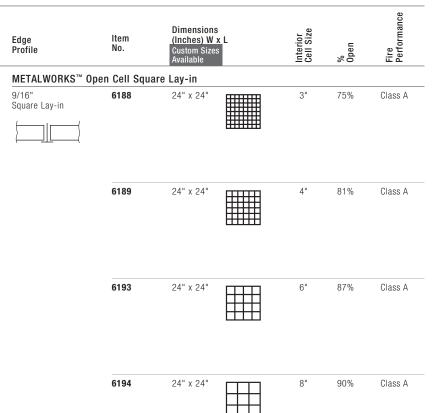


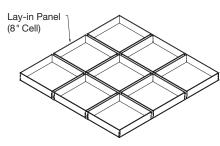
Custom Colors Available

## METALWORKS™ Open Cell

Square Lay-in

#### VISUAL SELECTION





RECYCLED CONTENT

LOCATION DEPENDENT

Installs in standard 9/16" T-Bar suspension system

## PHYSICAL DATA

### Material

Aluminum, 0.016" thick

Panel: Nominal 24 x 24 x 1-1/2" blade height x 9/16" blade width (matches 9/16" suspension system)

#### Interior Cell Sizes

3", 4", 6", and 8" Custom cell sizes also available upon request as premium options.

Standard white in a powder-coated, post-production painted finish, as well as Custom colors. Contact TechLine for custom color matching requests.

#### Accessories

Metal Infill panels (for sprinklers and lighting) available. These fill the 3", 4", 6" and 8" interior cells.

Fire Performance ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

Fire Performance with Sprinklers
MetalWorks™ Open Cell ceilings may affect the planned
fire sprinkler water distribution pattern, or possibly delay
or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device.

Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

MetalWorks Open Cell Lay-in panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong installation instructions.

#### Warranty

Details at armstrongceilings.com

Weight/Carton Ranges from 7-20 lbs/ctn depending on interior cell size

Square Feet/Carton

40 SF/ctn (panels)

## METALWORKS™ Plank

Hook-on smooth texture



Durable, steel hook-on planks with 1/8" reveal.

#### **KEY SELECTION ATTRIBUTES**

- · Upward accessible
- Crisp visual with narrow 1/8" reveal
- Good NRC with acoustical fleece (perforated pattern)
- · Economical option with fast delivery
- Durable Washable, Scrubbable, Impact-resistant, Soil-resistant

#### COLORS Due to printing limitations, shade may vary from actual product.



Silver Grey (SG) White (WH)

#### PERFORATION OPTIONS (1:2 scale shown)



M1 M2 (Unperforated) (Microperforated)

#### **DETAILS**



MetalWorks Plank Microperforated

## METALWORKS™ Plank

Hook-on smooth texture

#### VISUAL SELECTION

METALWORKS™ Plank

Item

No. ◆

5331\_

5332\_

5333\_ \_

**Dimensions** 

16" x 72"

16" x 96"[

16" x 96" [

Nominal W x L (Inches)

Edge

Profile

#### PERFORMANCE level of performance. Fire Performance Impact Scrub Wash Soil Perforations ight-(White Only) Durability Class A 0.77 Class A 0.61

0.77

0.61

Class A

Class A

Dots represent high

◆ When specifying or ordering, include the appropriate color suffix with the item number (e.g., 5330 WH; 5332 SG). Light reflectance is for White only.

М1

M2

M1

7 M2

#### ACOUSTICAL INFORMATION

Perforation		CAC
	NRC	CAC
Unperforated	0.10	36 •
Micro- perforated	0.65	31*
	Unperforated	Unperforated Unperforated

With optional field-cut #747 mineral fiber backing. For more information on acoustical infill panels, see Pg. 156.

#### **ACCESSORIES**

	Item No. ◆	Description	Length	Pieces/Carton
	5336	4-1/2" Plank Trim	10'	5
,				
È				
	5337	Seismic Spring	N/A	100
	M311081	Pressure Spring	N/A	100
	M330011A	F Shadow Gap Wall Angle RA5F – WH	10'	10
	M330003A	F Wall Angle RA4F – WH	10'	10
E	M330005A	F Wall Angle RA4F – SG	10'	10

#### SUSPENSION SYSTEMS

Item Number	Description	Length	Pieces/Carton	
HD8906	12' Heavy-duty Drywall Main Beam	12'	12	
5335	4' Hook-on Cross Tee Assembly	4'	10	

#### PHYSICAL DATA

Material

Electrogalvanized steel – thickness 0.028"

**Surface Finish** Factory-applied, powder-coated finish (post-coated)

Fire Performance

Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

#### **Design Considerations**

If non-standard sizes, colors, or perforations are needed, call 1 877 ARMSTRONG for TechLine, or contact your Armstrong Cellings representative to review the MetalWorks™ RH200 Custom Plank system. Install with minimum plenum clearance.

Installation Consideration Cut panels are non-accessible

Recommended Suspension System
Drywall Heavy-duty main beams with MetalWorks Plank
Hook-on cross tees, as listed above.

Seismic Restraint
MetalWorks™ Plank have been engineered, tested, and approved
for application in all seismic areas, when installed per Armstrong Ceilings installation instructions.

Warranty Details at armstrongceilings.com

Weight; Panels/Carton 0.88 lbs/SF; 4 panels/ctn

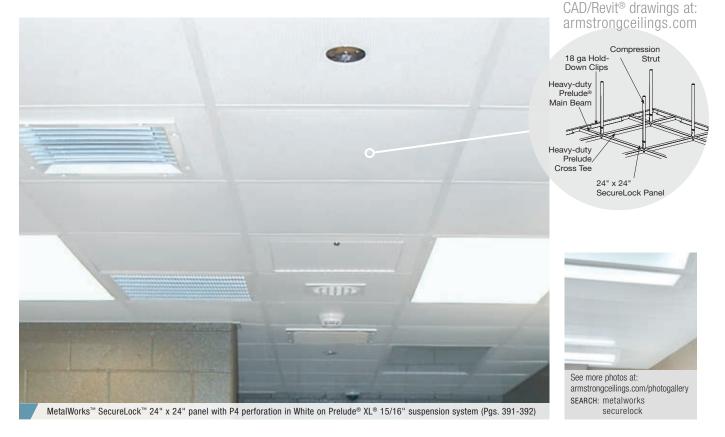
TechLine / 1 877 276-7876 armstrongceilings.com/metalworks (search: metalworks plank) BPCS-3819-517

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# METALWORKS™ SecureLock™ and SecureLock™ Plus

Lay-in & Screw-in smooth texture



Tamper-resistant ceiling system from 18-gauge galvanized steel panels.

#### **KEY SELECTION ATTRIBUTES**

#### SecureLock™ Lay-in

- Point-load tested to withstand up to 850 lbs, and a minimum of 430 lbs
- · Concealed locking
- Installs on a heavy-duty Armstrong® suspension system
- Protection against contraband concealment

### SecureLock Plus Screw-in (custom)

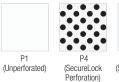
- · Tamper-proof plank ceiling
- System capable of withstanding 600 impacts with 200 foot-pound of energy
- Screw-in point load plank system tested to withstand  $960-3,100~{\rm lbs}$  of force
- 12-, 14-, and 16-gauge galvanized steel planks for added strength and durability
- Available in 12", 18", and 24" widths and up to 10' lengths
- Protection against contraband concealment
- · Stainless steel planks

### $\textbf{COLOR SELECTION} \quad \text{Due to printing limitations, shade may vary from actual product.}$



\* Premium finish options

#### PERFORATION OPTIONS (1:2 scale shown)





#### **DETAILS**





- 1. MetalWorks SecureLock Perforated
- 2. MetalWorks SecureLock Plus Perforated

VISUAL SELECTION

**P1** 

Perforation

Unperforated

For LEED contribution contact TechLine



## Dots represent high

#### **PERFORMANCE** level of performance.

Edge Profile	Item No. ◆	Dimensions (Inches) W x L	Fire Rating	Perforations
METALWORKS™	SecureLock	тм		
15/16" Lay-in	5488WH	24 x 24"	Class A	P1, P4

Impact Scrub Wash Soil (White Only) Durability 0.77 (P1) 0.61 (P4)

◆ Add 2-letter perforation suffix to item number when specifying or ordering (e.g., 5488P\_1WH).
NOTE: 24" x 48" panels and SecureLock Plus Custom panels are available by contacting TechLine at 1 877 276-7876.

*	With optional field-cut item 747 mineral fiber
	backing (cannot be used in addition to fiberglass
	infill itom 9200100\

0.80

NRC\*\*

CAC\*

CAC

36

38

ACCESSORIES			
Item No.	Description	Dimensions (Inches)	Pieces/Carton
5396	24" x 24" Hold-Down Border Clips – 18 gauge	22-1/8"	Bulk
5594	Compression Strut	60"	Bulk
5596	Security Screws	_	100
5597	Security Screwdriver (to be used with item 5596)	-	1
5598	Tek Screws	-	100
5650WH	C Channel – 18 gauge	120"	Bulk
5398	Access Door – 18 gauge	24 x 24 x 1"	Bulk
5965P1WH	24" x 24" Exit Panel Unperforated	24 x 24 x 1"	8
5965P4WH	24" x 24" Exit Panel Perforated	24 x 24 x 1"	8
8200100	1" Fiberglass Infill Panel	24 x 24 x 1"	12

 $\textbf{SUSPENSION SYSTEMS} \hspace{0.3cm} \text{(See Pgs. 365-366 for components.)}$ 

15/16"



#### PHYSICAL DATA

## Material

Electrogalvanized Steel – thickness 18 gauge SecureLock Plus is available in stainless-steel as a special order.

#### Surface Finish

Factory-applied powder-coated finish (post-coated)

#### Fire Performance

Tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

#### Design/Installation Considerations

Panels installed in correctional facilities are recommended for supervised areas. For detailed impact and point load test results, contact TechLine at 1 877 276 7876.

## Warranty

Details at armstrongceilings.com

#### Weight; Square Feet/Carton

5488P1WH - 2.24 lbs/SF; 32 SF/ctn 5488P4WH - 1.97 lbs/SF; 32 SF/ctn

<sup>\*\*</sup> NRC 0.80 (microperforated) with optional fiberglass infill item 8200100.

# METALWORKS™ Snap-in

**Concealed Suspension** smooth texture



This monolithic ceiling with a concealed appearance, offers downward accessibility and excellent acoustical sound-blocking/absorption options.

#### **KEY SELECTION ATTRIBUTES**

- · Low-cost concealed suspension solution
- · MetalWorks Snap-in panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only.
- · Use on a lower clearance plenum (as low as 2") when MPT snap bar
- is attached directly to the deck
- · Downward accessible (with panel removal tool)
- · A variety of standard finishes and perforations available to enhance design aesthetics and acoustical performance
- · NRC values up to 0.90 with fiberglass infill panels
- · Laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum; visuals other than the ones shown are also available
- Durable Washable, Scrubbable, Impact-resistant, Soil-resistant

· Not recommended for seismic areas

## ${\color{red}\textbf{COLOR SELECTION}} \quad \text{Due to printing limitations, shade may vary from actual product.}$

#### MetalWorks



Part of the Sustain<sup>™</sup> portfolio, meeting sustainability compliance standards



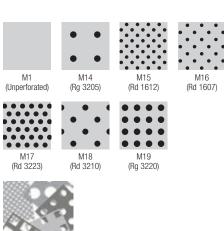




Finishes Available



### PERFORATION OPTIONS (1:2 scale shown)



# METALWORKS™ Snap-in

Concealed Suspension smooth texture

Declare<sup>s™</sup> Livina Buildina Challenge Compliant SUSTAIN High Performance Sustainable Ceiling Systems Unperforated (M1)

LOCATION DEPENDENT

WITH INFILL PANEL

VISUAL SELECTION

Dots represent high PERFORMANCE level of performance.

ACOUSTICAL INFORMATION
------------------------

Edge	Item	Dimensions (Inches) W x L	Perforations	rt ect	Wash	Scrub	Impact	Soil	Perforation	on	NRC with acoustical fleece	NRC with 1" fiberglass infill panel*
Profile	No. ◆	Custom Sizes Available		Light Reflect		,,,,,,,,	<b>®</b> ^\				NRC	NRC
METALWOR	KS™ Snap-in (w	ith acoustical fleece)		(White Only)		— Dura	bility —		M1	rated	-	_
Snap-in Square 15/16"	7216	12" x 48" 🗔	M1; M14-19	0.77 (M1)	•	•	•	•		Unperforated		
	7215	24" x 24" 🔲	M1; M14-19	0.77 (M1)	•	•	•	•	M14		0.55	0.85
	7217	24" x 48"	M1; M14-19	0.77 (M1)	•	•	•	•	• •	Rg 3205	0.00	•
	7219	30" x 30"	M1; M14-19	0.77 (M1)	•	•	•	•	• •			
◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7215 <u>M 1 4 L M A</u> ).								M15	Rd 1612	0.70	0.90	
4005000									M16	Rd 1607	0.70	0.80
ACCESSOR	IES								M17	3223	0.75	0.90
	Item No. ◆	Description	Dimensions (Inches)	Color		P	ieces/C	arton		Rd 32	•	•
	7125	Box Molding	2 x 96 x 1-1/2"	WHA, SI SAA, LN	A, MYA, 1A, BAA,	10 BL	0					
	7126	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A		10	0		M18	Rd 3210	0.65	0.85

0.75

æ

0.90

#### 7215 M14 LMA EXAMPLE: Panel Finish: Dimension: 24" x 24" M14 Lacquei Mill Round Straight Rg 3205

## A(

	Item No. ◆	Description	Dimensions (Inches)	Color	Pieces/Carton
	7125	Box Molding	2 x 96 x 1-1/2"	WHA, SIA, MYA, SAA, LMA, BAA, BL	10
	7126	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A	10
	5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
	8200100	1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12
	7127	Snap-in Access Tool	N/A	N/A	1

#### SUSPENSION SYSTEMS

15/16" Prelude® XL® main beams (See catalog Pgs. 365-366 for components.); 1-1/2" Drywall Grid main beams (See catalog Pgs. 404-405 for components.); Cross tee optional but recommended.

Item No.	Description	Dimensions (Inches)	Color	Pieces/Carton
1-1/2" Carrying Channel	Supplied by others	_	-	_
MPT4500	Spring Tee (Snap Bar)	-	N/A	25
B4	Wire Clip 1-1/2" Channel	_	N/A	1,000
7132	Snap Bar Hanger	3-1/4" x 5"	N/A	100
7133	Snap Bar Miser Clip	3-1/4" x 4-7/16"	N/A	100
	Splice for Metal Pan Main Beam	12"	N/A	250

## PHYSICAL DATA

## Material

Aluminum - thickness 0.040"

#### Surface Finish

Laminates: Vinyl-faced membrane Painted finishes: Factory-applied polyester paint Custom colors and finishes available.

Fire Performance Painted aluminum finishes tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed

Laminate finish tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

#### **ASTM E1264 Classification**

Fire Class A – Painted Fire Class B – Laminates

#### **Acoustical Options**

Perforated panels are supplied with a black fiberglass fleece to absorb sound.

# Recycled Content Minimum 25%. Up to 90% recycled content available.

**Design Consideration**Anodized and Lacquer Mill finishes may vary in shade

between production runs and over time.

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#### Design Support

Project management assistance is available by calling TechLine at 1 877 276-7876.

#### Seismic Restraint

This product is not recommended for seismic areas. Use MetalWorks Torsion Spring or Vector® panels in seismic conditions.

Warranty Details at armstrongceilings.com

Weight 0.69 lbs/SF

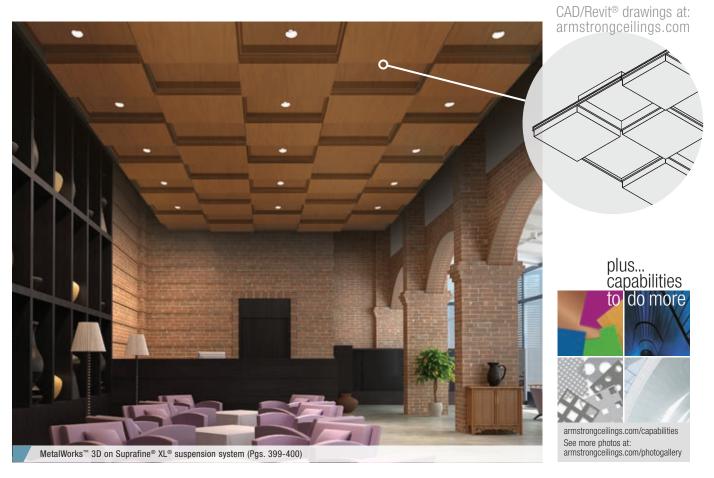


<sup>\*</sup> Maximum NRC achieved with acoustical infill (item 8200100 or 5823). For additional infill panel options, refer to catalog Pg. 156.

# METALWORKS™ 3D

Tegular smooth texture





Now get Total Acoustics® performance with MetalWorks™ 3D perforated panels – excellent noise reduction and sound blocking in one system.

#### **KEY SELECTION ATTRIBUTES**



- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Define and accentuate spaces with unique 3D look
- MetalWorks 3D panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only.
- Reflections  $^{^{\!{\scriptscriptstyle \mathsf{TM}}}}$  laminate finishes provide wood-look visual
- Standard Tegular and 1", 2", 3", and 4" panel heights
- · Easy to install
- · Perforation option available for acoustics
- Durable Washable, Scrubbable, Impact, Soil-resistant

## $\textbf{COLOR SELECTION} \quad \text{Due to printing limitations, shade may vary from actual product.}$

#### MetalWorks™



Part of the Sustain<sup>™</sup> portfolio, meeting sustainability compliance standards

#### Reflections™ Laminate Finishes



Natural Oak

(LNOIE)



(LNMPIE)



(LRM)

Walnut

(LWN)

Rock Maple

Light Cherry



Custom Colors and Finishes Available

#### PERFORATION OPTIONS

(1:2 scale shown)







(Unperforated) (Rd 1612)



Custom Perforations

# METALWORKS™ 3D

Item

No. ◆

7220\_ \_ \_ \_ \_

7220UP1\_

7220DN1\_

7220UP2

7220DN2\_\_

7220UP3\_

7220DN3\_\_

7220UP4

Light reflectance is for unperforated Whitelume.

7220DN4\_ \_ \_ \_ \_

**Dimensions** 

(Inches)

Nominal W x L x H

24 x 24 x 5/16"

♦ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g. 7220 M 1 W H A).

Down Tegular

24 x 24 x 1"

24 x 24 x 1"

Down Tegular

24 x 24 x 2"

24 x 24 x 2"

24 x 24 x 3"

24 x 24 x 3"

Down Tegular

24 x 24 x 4"

24 x 24 x 4"

Down Tegular

\*\* Class A fire rating on MetalWorks painted finishes and Class B on Reflections laminate finishes

Up Tegular

Up Tegular

Down Tegular

Up Tegular

Up Tegular

Tegular smooth texture

VISUAL SELECTION

METALWORKS™ 3D Tegular

Edge

Profile

Square Tegular

(dimension varies)

Declare<sup>™</sup> Livina Buildina Challenge Compliant

Fire

Rating\*\*

Class A /

Class B

Class A /

Class A /

Class B

High Performance Sustainable Ceiling Systems Unperforated (M1)

Wash

PERFORMANCE

Light Reflect\*

(White Only)

0.77

0.77

Dots represent

high level of

performance

Impact Scrub

Durability

Soil

LOCATION DEPENDENT

WITH INFILL PANEL



## ACOUSTICAL INFORMATION Performance determined by perforation size

Perforation	ice de	I Panel Number	TOTALIOTT SIZE	<del>,</del>	Total Acoustics <sup>1</sup>
Peri		Infill Item	NRC -	- CAC =	NRC
M15	Rd1612	8200100	0.90	N/A	-
	Rd	5823	0.90	N/A	_
		1713	0.70	37 •	BETTER
		2820	0.80	35	BEST
1 Total Ac	ouetic	s® ceiling nand	ale have an	ideal combine	ation of

noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+)

BEST (NRC 0.80+; CAC 35+)

For perforation % open area, refer to Pg. 118. For infill panel information, refer to Pg. 156.

#### TOTAL ACOUSTICS® PANEL INSTALLATION



MetalWorks™ 3D ceiling panel with School Zone® Fine Fissured™ 1713 acoustic infill panel for Total Acoustics® performance

#### ACCESSORIES

AUGESSUNIES				
Item No.	Description	Dimensions Nominal W x L x H (Inches)	Color	Pieces/ Carton
8200100	1" Fiberglass Infill Panel	24 x 24 x 1"	Black	12
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black-Matte	12
1713	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	White	14
2820	Calla® Square Lav-in Acoustic Panel	24 x 24 x 1"	White	10

## SUSPENSION SYSTEMS

9/16" Suprafine® XL® Coordinating suspension systems and Axiom® trim available for painted colors. Black suspension and Axiom trim are suggested for Reflections™ wood looks finish. Consult armstrongceilings.com for full suspension and trim selections.

## PHYSICAL DATA

Material Aluminum – thickness 0.040"

Surface Finish Reflections™ laminate finishes: Vinyl-faced membrane Painted finishes: Factory-applied polyester paint Custom colors also available.

Fire Performance Painted aluminum tested per ASTM E84 and CANVILC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. Laminate finishes tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less

> TechLine / 1 877 276-7876 armstrongceilings.com/metalworks (search: metalworks 3D) BPCS-5119-517

ASTM E1264 Classification
Fire Class – Class A (painted)
– Class B (laminate)
Unperforated – Type XX, Pattern G Perforated - Type XX, Pattern C

**Design Consideration**Panels may show a small area of exposed metal edge due to the forming process. Edge paint is available to minimize

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Warranty Details at armstrongceilings.com

#### Weight; Square Feet

7220 – 0.55 lbs/SF 7220UP1 – 0.60 lbs/SF 7220UN1 – 0.60 lbs/SF 7220UP2 – 0.70 lbs/SF 7220DN2 - 0.70 lbs/SF 7220DN3 - 0.80 lbs/SF 7220DN3 - 0.80 lbs/SF 7220DN4 - 1.00 lbs/SF 7220DN4 - 1.00 lbs/SI



# METALWORKS™ Tin

Lay-in, Tegular, and Nail-up smooth texture





Classic tin ceiling system available in multiple patterns with acoustic options.

#### **KEY SELECTION ATTRIBUTES**



- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Industry's only:
- Extra microperforated panels
- 9/16" Tegular panels reduce visibility of the suspension system
- · Variety of standard color and pattern options in 24" x 24" Lay-in and Tegular, or 24" x 48" Nail-up sizes
- 18" x 18" Tin infill panels also available for Metaphors® Coffers
- · Wide range of decorative accessories

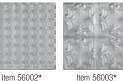


PATTERNS - STANDARD (Cornice and accessory information on pg. 157)

24" x 24" (Lay-in or Tegular) or 24" x 48" (Nail-up)



Item 56001\*





FILLERS - STANDARD









Only items 56001, 56002, 56003, and 56004 are available with a Tegular edge detail. A variety of other patterns are available as premium options. See armstrongceilings.com/ metalworks for more information.

COFFERS - STANDARD

24" x 24" (15/16" Lay-in only)





24" x 24" (Lay-in only)

White (TWH)



**FINISHES** (Available on standard patterns, coffers, fillers, and cornices.)





NOTE: Coffers items only available unperforated in White, Bare Steel, and Lacquered Steel finishes.

 ${\color{red}\textbf{COLOR SELECTION}} \quad \text{Due to printing limitations, shade may vary from actual product.}$ 

# **Finishes**







Steel (TLS)





#### Suspension System Finishes



(WH)





Grey (MY)



#### **EDGE DETAILS**







- 1. 9/16" Lay-in (L9), 15/16" Lay-in (L5), Nail-up (NU - 24" x 48" only)
- 2. 9/16" Tegular (T9)
- 3. 15/16" Tegular (T5)

#### PERFORATION OPTIONS



Unperforated (B1)



Extra Microperforated (B3)



# METALWORKS™ Tin

Edge

Profile

METALWORKS™ Tin

Lay-in, Tegular, and Nail-up smooth texture

Item

No.

56001

PATTERNS - STANDARD (Cornice and accessory information on Pg. 157)

**Dimensions** 

(Inches)

24" x 24"

Fire

Rating

Class A

(W

Dots represent high level of

П

П

LOCATION DEPENDENT

WITH INFILL PANEL

#### PERFORMANCE ACOUSTICAL INFORMATION performance.

\$25% 54% RECYCLED CONTENT

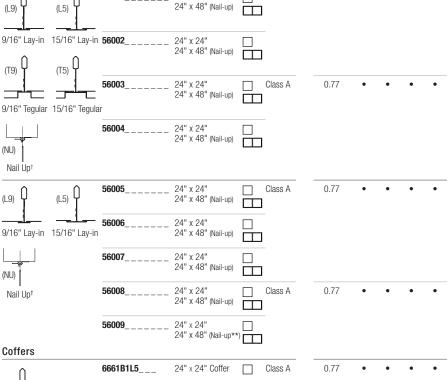
	_	Q.	D loct		Performa	Performance determined by				
Light Reflect	Wash Wash	Scrub	e Impact	Soil	Edge Detail		Infill Panel Item Number			
/hite Only)		Dura	bility _		Edç		Infi Iter			
0.77	•	•	•	•	T5	jular	8200100			
						15/16" Tegular	2820			
					T9	ular	8200100			
					Ĭ	·· 9/16" Tegular	2820			
0.77	•	•	•	•	<del></del> _	9/1				

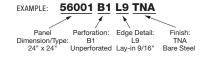
perforation size Total Acoustics†† 0.85 N/A GOOD 0.60 40 ((() 0.85 N/A 0.60 40 GOOD ((()

†† Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+)

BEST (NRC 0.80+; CAC 35+)

For infill panel information, refer to Pg. 156.





#### TOTAL ACOUSTICS® PANEL INSTALLATION



MetalWorks™ 3D Tin ceiling panel with Calla® 2820 acoustical infill panel for Total Acoustics® performance

◆When specifying or ordering, include the appropriate 2-letter edge detail, 2-letter perforation, and 3-letter color suffix with the item number. For example: 56001B 1 L T 9 N A is item 56001 Unperforated 9/16" Lav-in Bare Steel, For Coffers items, include 3-letter color suffix only (TWH, TNA, TLS)

24" x 24" Coffer

+ Nail-up panel unperforated only

15/16" Lay-in

NOTE: Field painting extra microperforated panels will affect acoustical performance.

6662B1L5\_\_\_

#### SUSPENSION SYSTEMS

(See pgs. 391-392 for Prelude® XL® components. See Pgs. 400-401 for Suprafine® XL components.)

Prelude® XI® Suprafine® XL®

#### **ACCESSORIES**

For accessories, including cornices, clips and perimeter trim, refer to Pgs. 156-157.

### PHYSICAL DATA

#### Material

Steel - thickness .010' (Copper panels)

Aluminum - thickness .020'

## Surface Finish

Copper v-plated Bare Steel - unfinished

White – factory-applied powder-coated finish Lacquered Steel – factory-applied lacquered finish

#### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

### ASTM E1264 Classification

Unperforated steel ceiling panels – Type XX, Pattern J, Z Perforated steel ceiling panels – Type XX, Pattern C, J, Z

#### **Design Considerations**

As a result of the strain put on panels when they are embossed, you may find it necessary to use hold-down clips (item 5600HDC) to keep the panels flat in the suspension system. Due to the natural characteristics of Lay-in and Tegular edges on this tin product, panels may not lay flush. MetalWorks™ Tin panels are produced from steel or aluminum and are designed to emulate an antique-type visual. Periodic "wrinkles" or dents may cause panels to appear not to be flat; these characteristics add to the antique effect and are not considered manufacturing defects.

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Bare Steel is unfinished and must be field-painted to prevent tarnishing over time. The Bare Steel finish may contain slight hairline markings that are visible at eye view, but are covered when painted. For the look of natural steel, the Lacquered Steel finish is recommended. These panels are clear lacquered on both sides and come with plastic PVC to prevent scratching. See armstrongceilings.com/metalworks for more details.

#### Recommended Suspension System 9/16" Suprafine® XL® suspension system 15/16" Prelude® XL suspension system suspension system

### Warranty

Details at armstrongceilings.com

Weight Steel - 0.45 lbs/SF Coffers - 0.52 lbs/SF Aluminum - 0.38 lbs/SF

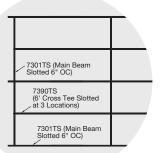


# METALWORKS™ Torsion Spring/ **Torsion Spring Exterior**

smooth texture



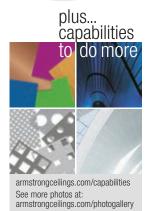
CAD/Revit® drawings at: armstrongceilings.com



Large-size concealed panels offer a monolithic visual with 100% downward accessibility.

#### **KEY SELECTION ATTRIBUTES**

- Now available with PureWood<sup>™</sup> real wood veneers in three standard finishes
- · MetalWorks Torsion Spring is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- · Choose from a variety of standard panel sizes that install with pre-slotted standard 15/16" suspension system
- 48" x 48" panels are available as a premium option
  - · Interior panels feature swing-down accessibility
  - · For exterior applications, choose from two standard panel sizes that install with 15/16" G90 suspension system
- Reflections<sup>™</sup> laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum; visuals other than the ones shown are also available
- · NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)



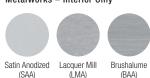
**COLOR SELECTION** Due to printing limitations, shade may vary from actual product.

## MetalWorks™ - Interior and Exterior



Part of the Sustain<sup>™</sup> portfolio, meeting sustainability compliance standards

## MetalWorks - Interior Only





#### Reflections™ Laminate Finishes - Interior and Exterior





(LNMPIE)

Natural Oak (LNOIE)

#### Reflections Laminate Finishes - Interior Only

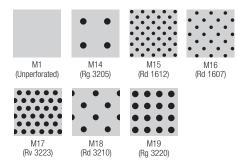


#### PureWood Veneer Finishes - Interior Only

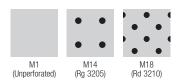


## PERFORATION OPTIONS (1:2 scale shown)

## Painted and Laminate Perforations



PureWood Perforation Options (1:2 scale shown)



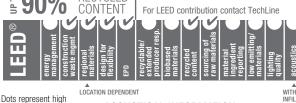




# METALWORKS™ Torsion Spring/ **Torsion Spring Exterior**

smooth texture

Declare<sup>™</sup> Livina Buildina Challenge Compliant SUSTAIN High Performance Sustainable Ceiling Systems Unperforated (M1)



WITH
INFIL
PANE

VISUAL SELECTION			PERFORMANCE level	ACOUSTICAL INFORMATION				
Edge Profile	Item No. ◆	Dimensions (Inches) W x L Custom Sizes Available	Light Reflect*	Springs per Panel	Perforation		NRC with acoustical fleece	infi
METAL WORKS™ 1	Torsion Spring Square	e with Acoustical Fleece					NRC	NRC
Torsion Spring Square 15/16"	7209	24 x 24"	0.77	4	- <b>M1</b> †	Unperforated	-	-
The state of the s	7210	24 x 48"	0.77	4	M14 <sup>†</sup> • •	Rg 3205	0.55	0.85
	7211	24 x 72"	0.77	6	M15†	Rd 1612	0.70	0.90
	7212	24 x 96"	0.77	6	M16 <sup>†</sup>	Rd 1607	0.70	0.80
	7213	30 x 30"	0.77	4	M17 <sup>†</sup>	Rv 3223	0.70	0.90
Exterior Panels					M18 <sup>†</sup>	Rd 3210	0.65	0.85
	7225	24 x 24"	0.77** 0.61***	4	M19†	g 3220	0.75	0.90

Perforation	on	NRC with acoustical fleece	NRC with 1" fiberglass infill panel††
		NRC	NRC
M1 <sup>†</sup>	Unperforated	-	-
M14 <sup>†</sup>	Rg 3205	0.55	0.85
M15†	Rd 1612	0.70	0.90
M16†	Rd 1607	0.70	0.80
M17†	Rv 3223	0.70	0.90
M18 <sup>†</sup>	Rd 3210	0.65	0.85
M19†	Rg 3220	0.75	0.90

† Available for exterior applications

†† Maximum NRC achieved with acoustical infill (item 8200100 or 5823).

For infill panel information, refer to Pg. 156.

NOTE: 48 x 48" panels are available as a premium option

7226\_ \_ \_ \_ \_

When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M 1 4 L M A)

 Ijnth reflectance is for unperforated Whiteluma

24 x 48'

- Light reflectance is for unperforated Whitelume. Unperforated Whitelume light reflectance
- \*\*\* Perforated Whitelume light reflectance



#### PHYSICAL DATA

#### Material

Aluminum - thickness 0.040'

Aluminum – thickness 0.060" (item 7226 only)

Reflections<sup>™</sup> laminates: Vinyl-faced membrane Painted finishes: Factory-applied polyester paint Custom colors and finishes available.

Fire Performance
If a composite test report is needed, Class A test
reports are available for aluminum Torsion Spring
painted and metal finishes, along with Class B test
reports for both PureWood™ veneer and Reflections

Fire performance for other finishes will vary depending on the required finish

#### **Code Considerations**

The International Mechanical Code requires that materials used in or forming part of an air plenum, have a flame spread index of 25 or less and a Smoke Developed Index of 50 or less on all surfaces of the material including those surfaces that may be exposed by cutting the material. Exception: The IBC states, "Materials having a thickness less than 0.036 inches (0.9mm) applied directly to the surface of walls or ceilings shall not be required to be tested." Panels finished with PureWood veneers, Reflections laminates, and paint finishes typically have a thickness less than 0.036 inches (0.9mm). These finishes are applied directly to the Class A aluminum substrate.

0.77\*\*

0.61\*\*\*

#### Acoustical Options

Perforated panels are supplied with a black fiberglass fleece to absorb sound.

#### **Recycled Content**

Minimum 25%. Up to 90% recycled content available.

### **Design Considerations**

Anodized and Lacquer Mill finishes may vary in shade between production runs as well as over time. Sizes can be mixed and matched on non-perforated panels only.

30" x 30" panels have a directional finish that is perpendicular to the main beams; all other panel sizes have a directional finish that is parallel to the main beams MetalWorks™ steel and aluminum panels are made at different manufacturing facilities that use different paint systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.

For PureWood finishes, variation among panels may occur due to the natural characteristics of the wood and grain.

Wind Uplift Performance 24" x 24" and 24" x 48" panels noted as exterior on this document tested for wind uplift Classes 30, 60, and 90. Specific installation instructions to meet these classes are available. For more information, visit armstrongceilings.com or contact TechLine customer support at 1 877 276-7876.

## Design Support

Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

#### Seismic Restraint

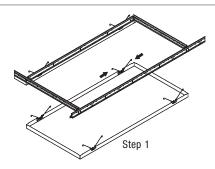
MetalWorks Torsion Spring panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

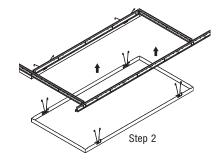
One (1) year limited warranty. Details at armstrongceilings.com

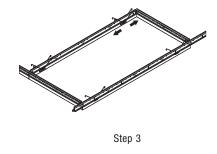
#### Weight

0.69 lbs/SF 0.86 lbs/SF (item 7226)

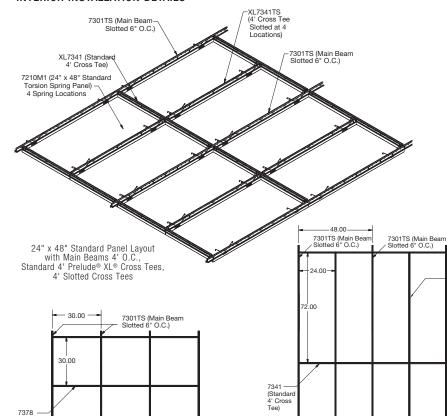
#### **HOW TO INSTALL PANELS**

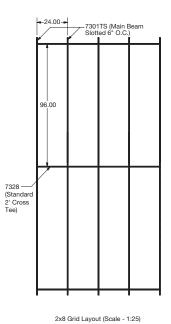






#### INTERIOR INSTALLATION DETAILS

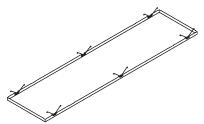




Suspension System Layout for 24" x 72" Panels

7390TS (6' Cross Tee Slotted

at 3 Locations)



Suspension System Layout for 24" x 96" Panels



(Standard 30" Cross Tee)

Suspension System Layout for 30" x 30" Panels

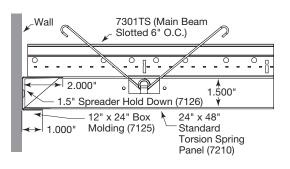
# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

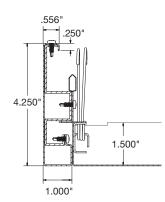
Perimeter Details

INTERIOR WALL PERIMETER DETAILS - For exterior details, consult the MetalWorks Exterior Torsion Spring installation instructions, BPLA-297922, on our web site.

Installation Detail - Wall Perimeter

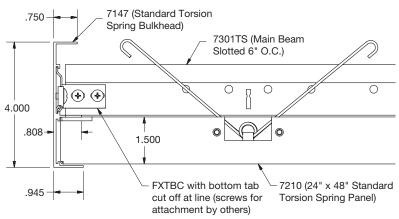
Installation Detail – Perimeter Trim (Formed Trim #7131)



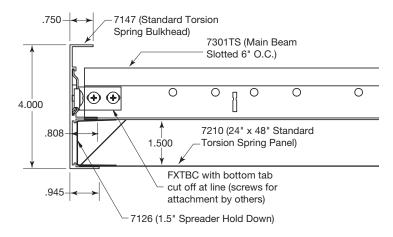


Installation Detail – Perimeter Trim (Extruded Trim #7147)

Full Panels



**Cut Panels** 



# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

Accessories & Suspension Systems

#### **ACCESSORIES**

















Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
7125	Box Molding (for Laminates and PureWood™, Black is recommended)	2 x 96 x 1.5"	WHA, SIA, MYA, SAA, LMA, BAA, BL	10
7147	Torsion Spring Perimeter Trim (Extruded) (for Laminates and PureWood, Black is recommended)	1 x 120 x 4"	WH, SG, MY, BL	6
7131	Torsion Spring Perimeter Trim (Formed)	1 x 96 x 4.25"	LMA, BAA, SAA	6
7126	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A	10
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
8200100	1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12
7129	Torsion Spring Hook Access Tool	N/A	N/A	1
7130	Torsion Spring Suction Access Tool	N/A	N/A	1

lacktriangle When specifying or ordering, include the appropriate color code with the item number (e.g. 7131  $\underline{K}$   $\underline{M}$   $\underline{A}$ )

SUSPENSION	CVCTEMC
SUSPENSION	O I O I E IVIO

Item No.	Description	Dimensions (Inches)	
15/16" Prelude® XL® Sus	spension System – Some items slotted for Torsion Spring. See below.		
7301TS	Prelude XL 12' HD Main Beam – slotted for Torsion Spring	144 x 15/16 x 1-11/16"	
XL7341TS	Prelude XL 4' Cross Tee — slotted for Torsion Spring	48 x 15/16 x 1-11/16"	
XL7390TS	Prelude XL 6' Cross Tee — slotted for Torsion Spring	72 x 15/16 x 1-11/16"	
XL7378	Prelude XL 30" Cross Tee	30 x 15/16 x 1-11/16"	
XL8320	Prelude XL 2' Cross Tee	24 x 15/16 x 1-11/16"	
XL7341	Prelude XL 4' Cross Tee	48 x 15/16 x 1-11/16"	
Exterior Suspension Sy	ystem		
15/16" Prelude XL – Som	ne items slotted for Torsion Spring. See below.		
7301G90ATS	Prelude XL 12' HD Exterior Main Beam – slotted for Torsion Spring	144 x 15/16 x 1-11/16"	
XL7341G90ATS	Prelude XL 4' Exterior Cross Tee – slotted for Torsion Spring	48 x 15/16 x 1-11/16"	

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24 x 15/16 x 1-11/16"

Prelude XL 2' Exterior Cross Tee

XL7321G90A

# METALWORKS™ Family Trim and Accessories

TRIM Required clips must be ordered separately

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Colors	Pieces/ Carton
AX2VESTR	Axiom® Vector Trim – 2" Straight	3/4 x 120 x 2"	WH, SG, MY, BL	-
AX4VESTR	Axiom Vector Trim – 4" Straight	3/4 x 120 x 4"	WH, SG, MY, BL	_
AX6VESTR	Axiom Vector Trim – 6" Straight	3/4 x 120 x 6"	WH, SG, MY, BL	_
5342	2" Effects™ Wood Looks Trim	Nominal 120" length	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE	6
5344	4" Effects Wood Looks Trim	Nominal 120" length	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE	6
5346	6" Effects Wood Looks Trim	Nominal 120" length	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE	6
7125	Box Molding (for Laminates, Black is recommended)	2 x 96 x 1-1/2"	WHA, SIA, MYA, SAA, LMA, BAA, BL	6
7126	Box Molding Spreader Hold Down	1 x 10-5/8 x 1-1/2"	_	10
7147	Torsion Spring Perimeter Trim (Extruded)	1 x 120 x 4"	WH, SG, MY, BL	6
7131	Torsion Spring Perimeter Trim (Formed)	1 x 96 x 4-1/4"	LMA, BAA, SAA	6

<sup>♦</sup> When specifying or ordering, include the appropriate 2-, 3-, or 4-letter color suffix with the item number (e.g., AXZVESTR W H, 7125 W H A, or 5342 E X C H).

For information on additional Axiom Perimeter Trim options and accessories see Pgs. 415-426 .

NOTE: Effects Wood Looks Trim cartons include FXSPLICE plates and FXTBC clips.

Item No.	Description	Pieces/ Carton
7800	144" Hemmed Angle Molding	30
7835	120" Hemmed Channel Molding	20
7835SC	Spreader Bar for Channel Molding	150
7870	Spring Border Clip	1000

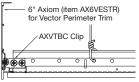
#### TRIM COLORS (Custom colors and veneers available.)

White (WH) Silver Grey (SG) Gun Metal Grey (MY) Black (BL)

Effects Maple (FXMP)
Effects Cherry (FXCH)
Effects Dark Cherry (FXDC)
Effects Walnut (FXWN)
Effects Walnut Espresso (FXWE)

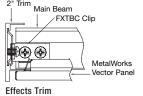
Satin Anodized (SAA) Lacquer Mill (LMA) Brushalume (BAA) Whitelume (WHA) Silverlume (SIA) Gun Metal (MYA)

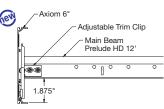
**DETAIL** 



Axiom® Vector® Trim

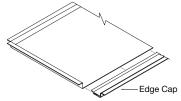








Effects Hold-Down Clip (Item FXSPTHDC) for use with cut MetalWorks™ Tegular and Vector® Panels



Edge Cap Application for cut MetalWorks Tegular and Vector® Panels

Specify Axiom® or Effects™ trim to be used with panels or planks that drop greater than 3/8" below the grid flange, such as Linear, Torsion Spring, or Clip-On.

## **INFILL PANELS**

Item No.	Description	Dimensions (Inches)	NRC	CAC	Colors	Pieces/ Carton
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	0.75	N/A	Beige	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	0.75	N/A	Black (Matte)	12
8200100	1" Fiberglass Infill Bag	24 x 24 x 1"	0.75	N/A	Black (Gloss)	12
2820BL	Calla® Square Lay-in Panel Black	24 x 24 x 1"	0.85	35	Black	10
1728BL	Fine Fissured™ Square Lay-in Panel	24 x 24 x 5/8"	0.55	33	Black	16
1713	School Zone Fine Fissured Square Lay-in Panel	24 x 24 x 5/8"	0.70	35	White	12
1714	School Zone <sup>®</sup> Fine Fissured <sup>™</sup> Square Lay-in Panel	24 x 48 x 5/8"	0.70	40	White	8
2820	Calla® Square Lay-in Panel	24 x 24 x 1"	0.85	35	White	10

#### **DETAILS**











- 1. BioAcoustic Infill Panel Beige
- 2. BioAcoustic Infill Panel Black
- 3. 1" Fiberglass Infill Panel (in poly bag)
- 4. Fine Fissured Square Lay-in Panel
- 5. Cortega® Square Lay-in Panel

# METALWORKS™ Family Trim and Accessories

#### **ACCESSORIES**

No. ◆	Description	Dimensions (Inches)	Colors	Pieces/ Carton
Panel Ac	cessories			
6096	15/16" Edge Cap for Cut 5/16" Tegular Panels*	Nominal 24"	WH, SG, MY, BL	50
6099	9/16" Edge Cap for Cut 5/16" Tegular Panels*	Nominal 24"	WH, SG, MY, BL	50
6098	Vector® Edge Cap for Cut Panels	Nominal 24"	WH, SG, MY, BL	50
84008	Vector Single-Slot Air Diffuser	24" x 24"	WH, SG, MY, BL	1
Trim Acc	essories			
FXSPLICE	2" Splice Plate w/ Setscrews	_	N/A	10
FXS4PLICE	4" Splice Plate w/ Setscrews	_	N/A	10

Item No.	Description	Dimensions (Inches)	Colors	Pieces/ Carton
Trim Acc	essories (continued)			
FXSPTHDC	Effects™ Hold-Down Clip for Cut Panel Installations	_	_	10
FHDC	Faceted Hold-Down Clip	_	_	10
UHDC	Universal Hold-Down Clip	_	_	1,000
FZUHDC	FastShip Universal Hold-Down Clip	_	-	50
CHDC	Clear Hold-Down Clip	_	_	50
FXTBC	Effects™ T-Bar Connector Clip	_	N/A	10
FXVTBC	Effects <sup>™</sup> Vector T-Bar Connector Clip	-	_	10
7239	Adjustable Trim Clip	_	_	50

 <sup>◆</sup> When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6096 M Y).
 ★ Edge caps in White, Silver Grey, Gun Metal Grey, and Black (for Effects finishes only).

#### CORNICES - STANDARD FOR USE WITH METALWORKS™ TIN (Nail-up panels only)

OUTINIOES - S	TANDAND TON USE WIT	II WILIALWOIRS IIN	(Nair-up pariets offly)			
Item No. ◆	Description	Dimensions (Inches)	Color	Pieces/Carton		
56051	Corner Molding	1-1/2 x 1-1/2 x 48"	See below	_	1-1/2" 2-1/8" 1-1/2" +	
56053	Corner Molding	1-7/8 x 1-7/8 x 48"	See below	-	2-5/8"	ลหลาสหลาสหลา
56052	Corner Molding	3 x 3 x 48"	See below	-	4-1/4"	00000
56054	Corner Molding	4-1/2 x 4-1/2 x 48"	See below	-	6-1/2"	处于处
56055	Corner Molding	6-1/8 x 6-1/8 x 48"	See below	-	8-7/8"	
56056	Corner Molding	9 x 9 x 48"	See below	– ť	9" 9" 12-3/4"	
5600	Conehead Nails (installs up to 200 SF per carton)		See below	_		
5600HDC	Tin Hold Down Clips	_	_	200		

<sup>♦</sup> When specifying or ordering, include the appropriate 3-letter color suffix with the item number (e.g., 56051<u>T A M)</u>

### **CORNICES COLORS**

White (TWH) Bare Steel (TNA) Lacquered Steel (TLS) Copper (TCP)

### **ACCESSORIES COLORS**

White (WH) Silver Grey (SG) Gun Metal Grey (MY) Black (BL)







PROJECT: Armstrong Student

Center at Miami University

LOCATION: Oxford, OH

ARCHITECT: BHDP Architecture

Columbus, OH

PRODUCT: MetalWorks™ RH215 Faceted

Ceiling Systems

#### THE CHALLENGE:

The Armstrong Student Center at Miami University of Ohio is designed to provide the 16,000 students with a home of their own on campus. One of the signature spaces is The Commons, a dining and gathering place with tiered seating for more than 450 students.

When designing the space, the design team wanted a ceiling that would create visual interest and control acoustics in this large, open space – to be a place where people wanted to be.

#### THE SOLUTION:

The design team addressed all the spaces criteria with unique designs from Armstrong® MetalWorks™ RH215 Faceted Custom Ceiling Systems.

The design team chose a wave-shaped ribbon design with wave-shaped ribbons created by suspending rows of 12" x 56" white metal ceiling panels on a curved suspension system. Each wave is enclosed by field-cut pieces of white metal trim.

Perforated and backed with acoustical fleece, this custom ceiling system has an NRC (Noise Reduction Coefficient) of 0.65. Absorbing 65 percent of the sound that strikes the ceiling provides the necessary acoustical control needed.

# HELPING YOU CREATE THE UNEXPECTED

FREE design service Pre-construction assistance Installation recommendations Collaborative design Specifications Budgeting and planning

1 800 988 2685

you inspire™

solutions center

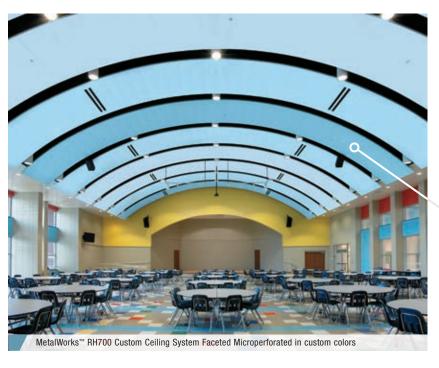
helping to bring your one-of-a-kind ideas to life

# **CUSTOM CEILING SYSTEMS**

METALWORKS™ DH700 - Flat & Faceted smooth texture

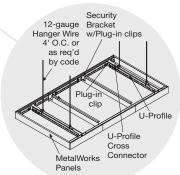


helping to bring your one-of-a-kind ideas to life

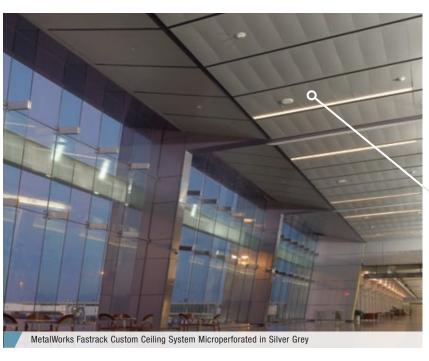


#### **KEY SELECTION ATTRIBUTES**

- Concealed suspension ideal for cloud applications
- Accessible system utilizes U-profile and hook-on panels
- · Panel length or width up to 120" dimension
- · Wide variety of perforations and colors
- · Curved suspension system available

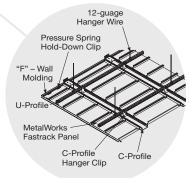


# METALWORKS™ Fastrack smooth texture



#### **KEY SELECTION ATTRIBUTES**

- Fast and easy-to-install exposed linear suspension system
- · Modular system for easy lighting design and flexibility
- · Fully accessible panels, minimal suspension system obstructions
- · Swing-down panel options available
- · C-profile widths from 4" up to 12"
- Color and surface is identical on visible suspension and infills
- · Seismic approved





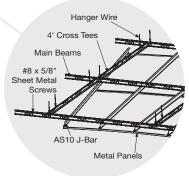
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# **CUSTOM CEILING SYSTEMS** METALWORKS™ Radial smooth texture



#### **KEY SELECTION ATTRIBUTES**

- · Trapezoidal panels create radial effect
- · System typically utilizes the RH200 J-Bar and RH215 suspension systems
- 100% downward accessible
- NRC 0.65 0.90 available for perforated panels
- Seismic approved
- · Radial systems also available in custom WoodWorks® (page 203) and custom Optima® fiberglass panels (pages 297-298)



## METALWORKS™ RH200 - Interior & Exterior smooth texture



#### **KEY SELECTION ATTRIBUTES**

- · 100% downward accessible without tools
- · Available in steel and aluminum
- . 3mm reveal joint detail with a variety of perimeter options
- · Curved metal panels can be convex or concave (interior only)
- · Factory cutouts available
- · Seismic approved



CUSTOM METALWORKS™

# **CUSTOM CEILING SYSTEMS**

# METALWORKS™ RH215 - Flat & Faceted smooth texture



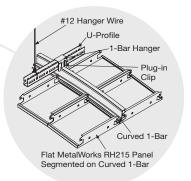
helping to bring your one-of-a-kind ideas to life



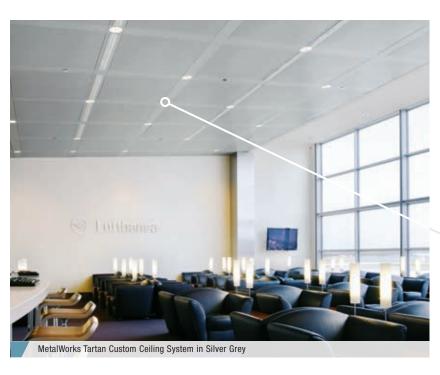


#### **KEY SELECTION ATTRIBUTES**

- Cost-effective solution for a curved look with flat panels faceted on a curved suspension system
- Utilizes a curved 1-Bar suspension system with rectangular hook-on (RH) panels
- Downward accessible without tools
- Typical panel dimensions range from 9"-24" wide and up to 96" long
- · Seismic approved

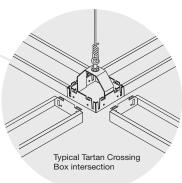


# METALWORKS™ Tartan smooth texture



#### **KEY SELECTION ATTRIBUTES**

- Modular system offers easy integration of lighting, HVAC, and sprinklers
- Hook-on suspension based on crossing boxes and C-profiles
- Available in 4", 6", 8", and 12" widths
- Factory-cut openings in crossing boxes are ideal installation points for a variety of elements
- Tartan modules may be filled with rectangular, trapezoidal, or square panels
- Color and surface is identical on visible suspension system and infills
- Seismic approved





# **CUSTOM CEILING SYSTEMS**

METALWORKS™ TorsionSpan™ smooth texture



helping to bring your one-of-a-kind ideas to life



#### **KEY SELECTION ATTRIBUTES**

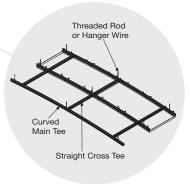
- · Large panels span the entire length of the corridor
- · Monolithic visual with 100% swing-down accessibility
- 24" wide panels with custom lengths up to 120"
- Multiple design options for turning 90-degree corners
- Unique installation reduces wires required to support the suspension system

# $\mathsf{METALWORKS}^{\mathsf{TM}}$ Torsion Spring — Flat & Curved smooth texture



#### KEY SELECTION ATTRIBUTES

- 100% downward accessible
- Butt edge detail; reveal and center scoring options available
- Custom size capabilities ranging from a minimum 12" width up to 120" length
- Cutouts for recessed lights and sprinklers available
- Wide variety of perforations and color options









Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

Perforated wood ceilings can provide sound absorption with the addition of mineral fiber or acoustical fleece backing.

Acoustical absorption is important to:

- Reduce noise levels and reverberation time, as well as enhance speech intelligibility

A continuous WoodWorks® ceiling with a W4 perforation and acoustical infill panel provides sound absorption (NRC 0.65), reducing reverberation by 83%. See example below.

WoodWorks® perforated panels installed with an acoustical infill panel achieve Total Acoustics® Performance.

## NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



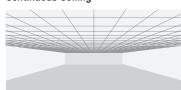
## CAC (Ceiling Attenuation Class)

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC > 35 is considered high performance. CAC is important between closed spaces, and from closed rooms to adjacent spaces, such as corridors and open office spaces.



Example:	Exposed Structure	Continuous Ceiling





5,000 SF Exposed Structure (50' x 100"), 15' to deck, drywall with windows on two sides, commercial carpet	No Treatment (0% Coverage)	Continuous WoodWorks Ceiling with W4 Perforation and 2820BK acoustical infill panel
Ceiling	Exposed Structure	Suspended 60" Below Deck
NRC	0	0.70
CAC	3.4 sec	0.37
Total Acoustics®	-	BETTER ()))
Reverberation Time	3.4 sec	0.6 sec
RT Improvement	ref	83%
SPL Reduction	ref	-5.0 dB

For definitions of acoustical terms, see pages 473-474 in this catalog.







# WOODWORKS® Standard Ceilings At-a-Glance

#### WOODWORKS® STANDARD CEILINGS



WOODWORKS<sup>©</sup> Tegular







WOODWORKS® Channeled Pgs. 181-182





WOODWORKS® Linear Pgs. 191-194





WOODWORKS® Vector®

NRC CAC M- TO THE DEF



WOODWORKS® Concealed Pgs. 183-184

NRC DEF TO TO

WOODWORKS® Linear

₩ 🗭

Pgs. 175-176

Pgs. 195-196



WOODWORKS® Channeled Pgs. 177-178





WOODWORKS® Grille Tegular







WOODWORKS® Open Cell Pgs. 197-198





WOODWORKS® Channeled Pgs. 179-180





WOODWORKS® Grille Backer & Dowel

NRC -W-

Pgs. 187-190



WOODWORKS® Canopies (Featured in Clouds & Canopies)







Flat Systems







**Curved Systems** 







WOODWORKS® Pg. 100 **Custom Canopies** (Featured in Clouds & Canopies) ₩ 🕮







Custom Ceilings



₩ 📦 🧬

# WOODWORKS® Custom Walls & Ceilings At-a-Glance



helping to bring your one-of-a-kind ideas to life

Icons are used throughout the catalog to help you quickly identify key products with high level of performance. **High Acoustics** Total Acoustics®

#### WOODWORKS® CEILING AND WALLS CUSTOMIZATION



WOODWORKS® Channeled Pgs. 177-182 455-456 NRC -W-



WOODWORKS® Grille Pgs. 187-190 Backer & Dowel

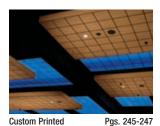


WOODWORKS® Linear



der 🔪 🥐





**Custom Printed** Wood Looks (Featured in Mineral Fiber Ceilings)



Pgs. 445-449 Ceiling & Wall Panels (Featured in Tectum® Wood Fiber Section)







#### Seismic

**ICON KEY** 



Category D, E & F

#### **High Durability** Washability



Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per modified ASTM D4828.

Product has CAC (Ceiling Attenuation Class) of 35 or higher.

#### Soil Resistance



Excellent resistance to dirt and/or grease for lasting value and performance.

#### Plenum Access



Downward access for panels minimizes panel damage.

#### Color Availability



Available in color.

#### WOODWORKS CEILING-TO-WALL TRANSITIONS



(Featured in Walls)



WOODWORKS® **Custom Walls** (Featured in Walls)



WOODWORKS® Grille Wall-to-Ceiling









WOODWORKS® Linear Planks Wall-to-Ceiling











# WOODWORKS® Standard Ceilings

Standard Finishes

WOOD LOOKS™ ON METAL CEILINGS (featured in MetalWorks Ceiling Section Pgs. 99-146)



METALWORKS™ Vector® Faceted in Effects™ Cherry





METALWORKS™ Tegular in Effects Cherry

Pgs. 121-124



METALWORKS™ Linear Faceted in Effects Cherry

































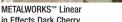


METALWORKS™ Vector® in **Custom Formations in Effects Cherry** 





in Effects Dark Cherry







METALWORKS™ Vector® Faceted in Effects Dark Cherry



































METALWORKS™ Vector® in Effects Maple

Pgs. 125-126















METALWORKS™ Vector® in Effects Light Cherry





Pgs. 125-126



METALWORKS™ Linear in Effects Light Cherry













#### **EFFECTS FINISHES FOR METAL CEILINGS**



Effects™ Maple (FXMP)



Effects Cherry (FXCH)



Effects Dark Cherry (FXDC)



Effects Walnut (FXWN)



Effects 0ak (FXOK)



Effects Walnut Espresso (FXWE)



Maple (NMP)



Light Cherry (NLC)



(NDC)

CEILING & WALL SOLUTIONS

# WOODWORKS® Standard Ceilings

## Standard Finishes

#### **COMPOSITE WOOD PANEL VENEERS**

Natural Variations™ (Real Wood Veneers)













Images™ Finishes (High Quality Printed Finishes)









Bamboo\* (Rapidly Renewable)



Custom Finishes Available

(NBE)

Walnut

(NWN)





(NOK)



(NWE)









\* Veneer is rapidly renewable. Bamboo is a grass that requires 3-7 years for maturity

Custom veneers are available on the following standard WoodWorks® products: WoodWorks® Concealed WoodWorks® Tegular WoodWorks® Vector® WoodWorks® Channeled WoodWorks® Linear

NOTE: WoodWorks custom panels can be made from any standard WoodWorks veneer.

#### **COMPOSITE WOOD PANELS**

	Concealed	Tegular	<b>Vector</b> ®	Channeled	Linear	Linear Panels
Real Wood Veneers						
NATURAL VARIATIONS						
Beech	V	V	V		<b>V</b>	<b>V</b>
Maple	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>
Light Cherry	V	V	V	V	<b>V</b>	V
Dark Cherry	<b>V</b>	V	V	<b>V</b>	<b>V</b>	<b>V</b>
Walnut	<b>V</b>	<b>V</b>	V		<b>V</b>	<b>V</b>
Oak	<b>V</b>	<b>V</b>	<b>V</b>		<b>V</b>	<b>V</b>
Walnut Espresso	<b>V</b>	<b>V</b>	<b>V</b>		<b>V</b>	<b>V</b>
CONSTANTS						
Maple	V	<b>V</b>	V		<b>V</b>	<b>V</b>
Cherry	<b>V</b>	V	<b>V</b>		<b>V</b>	<b>V</b>
Walnut	<b>V</b>	V	V		<b>V</b>	V
Redux Wheat	<b>V</b>	V	V		<b>V</b>	<b>V</b>
BAMB00						
Patina	V	V	V		<b>V</b>	V
Native	V	V	V		<b>V</b>	<b>V</b>
Images™ Printed Finishes						
Maple				V		
Light Cherry				V		
Dark Cherry				V		

#### **SOLID WOOD PANEL FINISHES**







Dark Cherry



(GWN)





SOLID WOOD PANELS

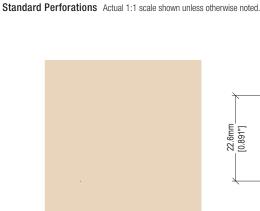
	Grille	Grille Tegular	Linear Planks	Open Cell	
Grille Maple	V	<b>V</b>	<b>V</b>	<b>V</b>	
Grille Light Cherry	V	<b>V</b>	<b>V</b>	<b>V</b>	
Grille Dark Cherry	V	<b>V</b>	<b>V</b>	<b>V</b>	
Grille Walnut	V	<b>V</b>	<b>V</b>	<b>V</b>	
Grille White	V	<b>V</b>	<b>V</b>		

Pattern (g = straight / d = diagonal / v = staggered)

**60** Diameter of hole size in mm (Example – 6 mm)

% open area

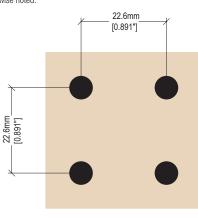
#### COMPOSITE WOOD PERFORATIONS - CONCEALED, TEGULAR & VECTOR®



W1 Type: Hole Size: % Open Area:

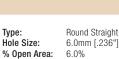


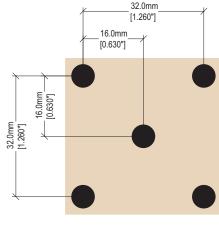
Unperforated 0mm [0"] 0%



50.8mm [2.000"]

W2 (Rg 6006)

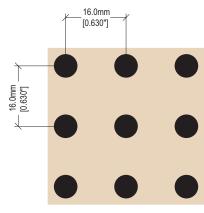




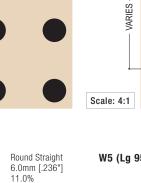
W3 (Rd 6006)



Round Diagonal 6.0mm [.236"] 6.0%



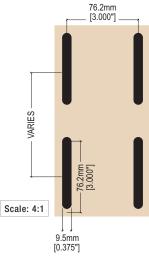
W4 (Rg 6011) Type: Hole Size: % Open Area:



W5 (Lg 9512)

9.5mm [0.375"] Type: Hole Size: % Open Area:

Oval Straight 76.2mm x 9.5mm [3.0" x .375"] Varies



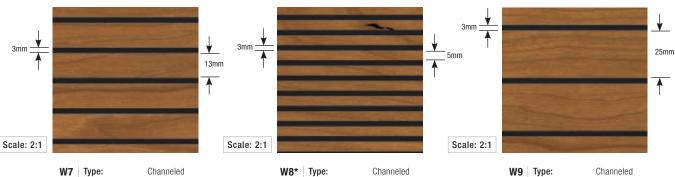
W6 (Lg 9508)

Type: Hole Size: % Open Area:

Groove Size:

Oval Straight 76.2mm x 9.5mm [3.0" x .375"] Varies

## COMPOSITE WOOD PERFORATIONS - CHANNELED



W7

Type: Groove Size: Channeled 13mm profile with 3mm groove

W8\* Type: Groove Size: Channeled 5mm profile with 3mm groove

\* Not available in Images™ Finishes



TechLine 877 276-7876 armstrongceilings.com/woodworks 25mm profile with

# WOODWORKS® Upgrade Ceiling Options

Take our standard WoodWorks® products in standard sizes, and make them distinctively yours by choosing from a variety of custom veneers (including FSC®-certified options) and/or perforations.

#### **CUSTOM VENEERS (PARTIAL LIST)**

In addition to standard veneers, custom veneers and continuous upturn options are available on many WoodWorks products. The following is a representation of some custom veneers used on recent projects. Veneer management is available to provide many other custom veneer options, and to coordinate with millwork or other interior finishes.























Sliced

African Mahogany

Anigre Quartered Figured

Anigre Quartered

Black Walnut Quartered

Cherry Plain

Sliced

Sapele Plain Sliced

Sapele Quartered

Teak Quartered

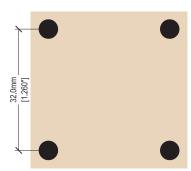
Walnut Quartered

White Oak

Cherry Quartered

Makore Plain

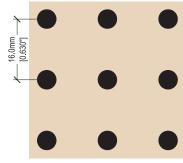
CUSTOM PERFORATIONS Actual 1:1 scale shown



Rg 5002

Type: Hole Size: % Open Area:

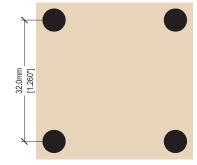
Round Straight 5.0mm [.197"] 2.0%



Rg 5008

Type: Hole Size: % Open Area:

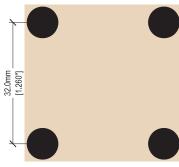
Round Straight 5.0mm [.197"] 8.0%



Rg 6003

Type: Hole Size: % Open Area:

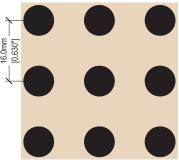
Round Straight 6.0mm [.236"] 3.0%



Rg 8005

Type: Hole Size: % Open Area:

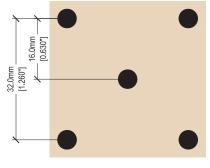
Round Straight 8.0mm [.315"] 5.0%



Rg 8020

Type: Hole Size: % Open Area:

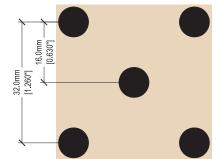
Round Straight 8.0mm [.315"] 20.0%



Rd 5004

Type: Hole Size: % Open Area:

Round Diagonal 5.0mm [.197"] 4.0%

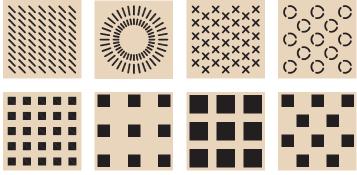


Rd 8010

Hole Size: % Open Area:

Round Diagonal 8.0mm [.315"] 10.0%

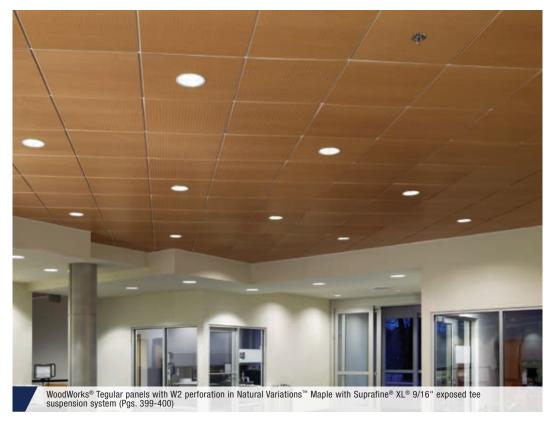
CUSTOM PERFORATION CAPABILITIES Examples represent visual on a 24" x 24" panel



NOTE: Perforations not recommended for WoodWorks Custom Curved panels

# WOODWORKS® Tegular







Now get Total Acoustics® performance with WoodWorks® Tegular perforated panels - excellent noise reduction and sound blocking in one system.

## **KEY SELECTION ATTRIBUTES**



- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Create upturns for continuous visuals and clouds with WoodWorks trim (see page 183 for trim options)
- · Coordinating WoodWorks walls available (see pages 421-422 for wall offering)
- 18" x 18" Tegular infill panels now available for Metaphors® Coffers; for details, visit armstrongceilings.com/ metaphors
- · Shorter lead times and lower cost than custom millwork

## **VENEERS** Due to printing limitations, shade may vary from actual product.

#### Natural Variations™ (Real Wood Veneers)



Walnut







Walnut Espresso

Light Cherry

#### Constants™ (Real Wood Veneers)







(CWA)

Redux Wood Wheat (CRW)



Bamboo\*



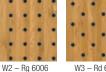


\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

#### PERFORATION OPTIONS (Actual 1:6 scale shown)



W1 (Unperforated)



W3 - Rd 6006 (Round Diagonal) (Round Straight)

Dark Cherry



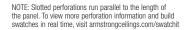
W5 - Lg 9512



W6 - Lg 9508 (Oval Straight Slotted) (Oval Straight Slotted)



**Custom Perforations** 





(Round Straight)

# WOODWORKS®

Tegular



PRODUCT



П

For LEED contribution contact TechLine WITH INFILL LOCATION DEPENDENT

Dots represent high

VISUAL SELECTION **PERFORMANCE ACOUSTICAL INFORMATION** level of performance. Performance determined by perforation size Dimensions Nominal W x L x H Perforations Total Acoustics<sup>1</sup> Edge Item Infill Panel Item Number Fire Rating Profile No. ◆ (Inches) Perforation WOODWORKS® Tegular 5404\_ \_ \_ \_ \_ W1 9/16" Square N/A 38 24 x 24 x 3/4" W1, W2, W3, Class A Jnperforated Tegular W4, W5, W6 8200100 W2 0.40 28 FSC®-certified WOODWORKS Tegular Round Straight 28 28 5479 0.40 9/16" Square 5406\_ \_ \_ \_ \_ 24 x 24 x 3/4" W1, W2, W3, Class A 0.40 5823 Tegular W4, W5, W6 1713BL 0.65 42 GOOD ((()) BETTER 2820BK 0.70 37 6484\_ \_ \_ \_ \_ 12 x 48 x 3/4" 8200100 0.40 28 Round Diagonal 28 28 42 5479 0.40 5823 GOOD 1713BI 0.65 6485\_\_\_\_\_ 12 x 72 x 3/4" (1) 2820BK 0.70 37 **BETTER** ((()) 6486\_ \_ \_ \_ \*\* 24 x 48 x 3/4" 8200100 0.40 28 Round Straight 5479 0.40 28 5823 0.40 28 1713BL 0.70 42 BETTER (1) 6487\_\_\_\_\*\* 24 x 72 x 3/4" 2820BK 0.70 37 **BETTER** ((()) W5 8200100 0.40 28 Straight Slotted TechZone® Panels 0.40 28 5479 0.40 28 5823 6510\_\_\_\_\_ 24 x 42 x 3/4" W1, W2, W3, Class A 1713BL 0.70 42 **BETTER** 

W4. W5. W6

◆ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes

30 x 30 x 3/4"

27 x 30 x 3/4"

6511\_\_\_\_\_

6512\_ \_ \_ \_

For veneers, sizes, and perforation patterns available as special order, call Technica at 1877 276-7876.

\*\* 24" x 48" and 24" x 72" Tegular panels are available standard with fleece attached. Fleece on other panels must be specified.

NOTE: Items 6485 and 6487 (12" x 72" and 24" x 72" series) include suspension system stabilizer hooks.

Items 6510, 6511, and 6512 are available in limited standard finishes and perforation options. See TechZone® ceiling systems (pages 337-344) for more details.

0.80

0.40

0.40

0.40

0.65

0.70

37

28 28 28

42

37

BEST (NRC 0.80+; CAC 35+)

Oval 2820BK

Straight Slotted 5479

Oval

8200100

5823

1713BL

2820BK

W6

For perforation % open area, refer to Pgs. 153-154. For infill panel information, refer to Pg. 184.





((())

BEST

(1)

GOOD

(1)

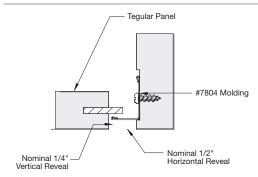
**BETTER** ((())

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+)

# W00DW0RKS®

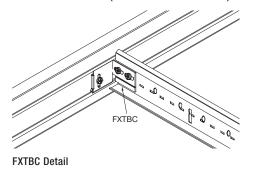
Tegular

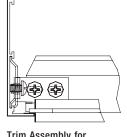
### WOODWORKS® TRIM (WOOD SUBSTRATE) INSTALLATION

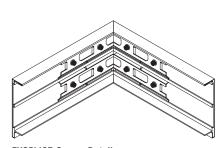


Trim with Tegular Panel

#### WOODWORKS TRIM (ALUMINUM SUBSTRATE) INSTALLATION







Trim Assembly for Tegular Panel

**FXSPLICE Corner Detail** 

## TOTAL ACOUSTICS® PANEL INSTALLATION



WoodWorks® Tegular ceiling panel with Calla® 2820 acoustic infill panel for Total Acoustics® performance



WoodWorks® Tegular ceiling panel with acoustical panel installed for Total Acoustics® performance



## W00DW0RKS®

#### Tegular

#### **ACCESSORIES**

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Color	Pcs/ Crtn
5415W1	4" WoodWorks® Trim (with FSC®-certified wood substrate)	4 x 96 x 3/4"	See Colors on Page 155	6
5419W1	6" WoodWorks Trim (with FSC-certified wood substrate)	6 x 96 x 3/4"	See Colors on Page 155	4
5659W1	4" WoodWorks Trim (with aluminum substrate)	4" x 120"	See Colors on Page 155	6
5660W1	6" WoodWorks Trim (with aluminum substrate)	6" x 120"	See Colors on Page 155	6
7804BL	Angle Molding (recommended with wood trims)	7/8 x 144 x 9/16"	Black	2
FXTBC	T-Bar Connector Clip	_	_	10
FXVTBC	Vector® T-Bar Connector Clip	-	_	10
FXSPLICE	Splice Plate with Setscrews	_	_	10
FX4SPLICE	Splice Plate with Setscrews	_	_	10
6408	3/4" Edge Banding	3/4" x 300"	See Colors on Page 155	_
7891	12-Gauge Hanger Wire	144" Length	_	_
92715A620	Self-tapping Screws	#2 x 3/4" Length	Black	25
1713BL	Fine Fissured™ Lay-in Panel	24 x 24 x 3/4"	Tech Black	14
2820BK	Calla® Lay-in Panel	24 x 24 x 1"	Black	10
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige Matte	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black Matte	12
8200100	Fiberglass Infill Panel	24 x 24 x 1"	Black Gloss	12
6091	Safety Cable	_	_	50



WoodWorks® Vector® with 4" WoodWorks Trim (wood substrate) in Bamboo Patina



Axiom® Trim also available in multiple colors and profile sizes. For details, visit armstrongceilings.com/axiom

◆ When specifying or ordering, include the color suffix that coordinates with your WoodWorks ceiling: (e.g., 5415W1 NMP)

# SUSPENSION SYSTEMS

9/16" Tegular







Suprafine is available in many standard colors. All other suspension systems are available in standard White only. Other colors available as special order.

#### PHYSICAL DATA

#### Material

Material
Fire-retardant particle board with face-cut veneers;
FSC®-certified fire-retardant particle board with
face-cut veneers (RA-COC-003601). For more
information about FSC®-certified fire-retardant
products, or to view our FSC®-certification letter, visit armstrongceilings.com/woodworksfsc

Surface Finish Clear or tinted semigloss coating

## Fire Performance

ASTM E84 surface burning characteristics, HPVA Certified with audit program per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

TechLine / 1 877 276-7876 armstrongceilings.com/woodworks (search: woodworks tegular) BPCS-5103-57

# Acoustical Performance CAC testing conducted using Silhouette® suspension

system.

# ASTM E1264 Classification Composite – Fire Class A

# Primary (Embodied) Energy See all LCA information on our EPDs.

**Application Considerations** 

# Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

#### **Design Considerations**

Different panel sizes should not be installed together. Perforated panel borders will vary (length and width) based on perforation selection and panel size. Do not mix perforations on the same installation.

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Specification Consideration
Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

Installation Consideration for Tegular Panels
Due to panel weight, 24" x 48" and 24" x 72" panels require that the
suspension system be attached to the back with safety cables attached.
12" x 72" and 24" x 72" panels require the use of suspension system
stabilizer clips (which are included in the cartons).

WoodWorks Tegular solid wood panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty** Details at armstrongceilings.com

Weight; Square Feet Panels - 2.75 lbs/SF







See more photos at: armstrongceilings.com/photogallery

Fully accessible wood panels are available in multiple options for acoustical and aesthetic needs.

#### **KEY SELECTION ATTRIBUTES**

- · Vector® edge detail provides safe and secure downward accessibility without tools and narrow reveal visual (1/4")
- · Create upturns for continuous visuals and clouds with WoodWorks® Trim (see page 183 for trim options)
- Coordinating WoodWorks® walls available (see pages 421-422 for wall offering)
- 18" x 18" Tegular infill panels now available for Metaphors® Coffers; for details, visit armstrongceilings.com/metaphors
- Installation with minimum plenum clearance (Vector)
- · Shorter lead times and lower cost than custom millwork

#### **VENEERS** Due to printing limitations, shade may vary from actual product.



Reech Maple

Oak





Light Cherry

Constants™ (Real Wood Veneers)







(CWA)

Redux Wood Wheat (CRW)

Bamboo\*







\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

#### PERFORATION OPTIONS (Actual 1:6 scale shown)



W1

(Unperforated)

Walnut

W2 - Rg 6006

(Round Straight)



(Round Diagonal)

Dark Cherry



(Round Straight)



(Oval Straight Slotted)

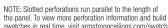




(Oval Straight Slotted)











TechLine 877 276-7876 175 lechLine 8// 2/0-/0/0 armstrongceilings.com/woodworks

# W00DW0RKS®

**Vector®** 

15/16" Vector -

1/4" Reveal





W1, W2, W3,

W4, W5, W6



RECYCLED

LOCATION DEPENDENT

WITH INFILL PANEL

VISUAL SELECT	TION			PERFORMANCE
Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations	Fire Rating
WOODWORKS® V	/ector®			
15/16" Vector – 1/4" Reveal	5401	24 x 24 x 3/4"	W1, W2, W3, W4, W5, W6	Class A
FSC®-certified V	VOODWORKS Ved	ctor		

 $\Box$ 

 When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes. For veneers, sizes, and perforation patterns available as special order, call TechLine at 1 877 276-7876.

24 x 24 x 3/4"

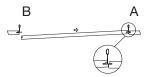
12 x 48 x 3/4"

24 x 48 x 3/4"

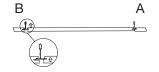
#### VECTOR PANEL INSTALLATION DETAILS

6480

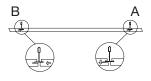
6482\_ \_ \_ \_ \_



Step 1: Fully insert the deepest kerf of edge "A", the access kerf, onto the exposed grid flange



Step 2: Raise the "B" edge of the panel, the registration kerf, into the grid opening until the kerf lines up with the grid flange



Class A

Step 3: Slide the panel so that the registration kerf on edge "B" engages the grid flange. Ensure that the access kerf on edge "A" drops down into the correct position.

#### ACOUSTICAL INFORMATION

Perforation		NRC* (24" x 48")	NRC* (all other sizes)	CAC*	
		NRC	NRC	CAC	
W1	Unperforated	N/A	N/A	38	
W2	Round Straight	0.50	0.40	28	
W3	Round Diagonal	0.50	0.40	28	
W4	Round Straight	0.70	0.65	28	
W5	Oval Straight Slotted	0.55	0.55	28	
W6	Oval Straight Slotted	0.45	0.40	28	

\* Maximum NRC achieved with acoustical infill (item. 8200100 or 5479). When infill is used, CAC is 28. For additional infill options, refer to the Acoustical Infill Panels data page (BPCS-4172).

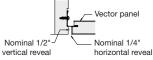


## SUSPENSION SYSTEMS

15/16 Vector Prelude<sup>6</sup>

Prelude suspension system is available in many standard colors. Other colors available as special order

#### WOODWORKS TRIM INSTALLATION



**Wood Substrate Trim with Vector Panel** 



Aluminum Substrate Trim Assembly for Vector Panel

# PHYSICAL DATA

#### Material

Fire-retardant particle board with face-cut veneers; FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, visit armstrongceilings.com/woodworksfsc

#### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

ASTM E84 surface burning characteristics, HPVA Certified with audit program per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

TechLine / 1 877 276-7876 armstrongceilings.com/woodworks (search: woodworks vector) BPCS-5416-517

#### ASTM E1264 Classification

Composite - Fire Class A

**Primary (Embodied) Energy** See all LCA information on our EPDs.

# **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

#### **Design Considerations**

Different panel sizes should not be installed together. Perforated panel borders will vary (length and width) based on perforation selection and panel size. Do not mix perforations on the same installation.

Vector safety clips included with panels may be visible through panel perforations.

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#### Specification Consideration

Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

#### Seismic Restraint

WoodWorks Vector solid wood panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

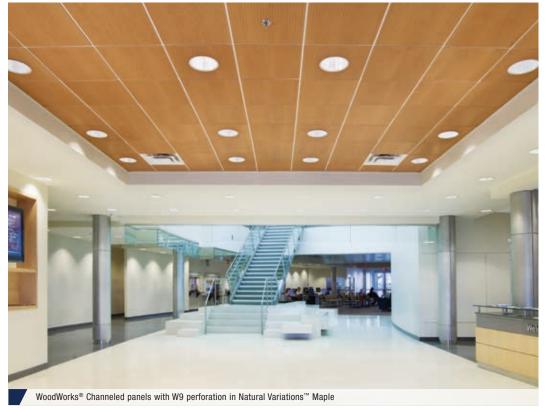
**Warranty** Details at armstrongceilings.com

Weight; Square Feet Panels – 2.75 lbs/SF



# WOODWORKS® Channeled Tegular







Now get Total Acoustics® performance with WoodWorks® Channeled Tegular perforated panels - excellent noise reduction and sound blocking in one system.

#### **KEY SELECTION ATTRIBUTES**



- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Real wood veneers or Images<sup>™</sup> high-quality printed visuals
- · Create a continuous ceiling, cloud, or ceiling-to-wall transition
- · Acoustical backing improves sound quality
- · Shorter lead times and lower costs than custom millwork
- · Class A fire performance

#### Natural Variations™ Finishes

- · FSC® chain of custody (CoC) certified WoodWorks products represent responsible production and consumption practices from the forest to the consumer
- · 100% Biobased content
- BioAcoustic<sup>™</sup> infill panels can enhance acoustics and contribute to LEED® credits

#### Images™ Finishes

- Larger Tegular panel sizes 24" x 48", 12" x 48", and 30" x 30" for even more design flexibility
- BioAcoustic<sup>™</sup> infill panels can enhance acoustics and contribute to LEED® credits

25mm

**VENEERS** Due to printing limitations, shade may vary from actual product. Natural Variations (Real Wood Veneers)



Maple (NMP)



(NLC)

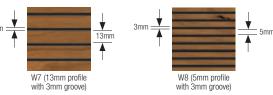






Custom Veneers

#### VENEER PERFORATION OPTIONS



#### IMAGES™ FINISHES

(High-Quality Printed Finishes)





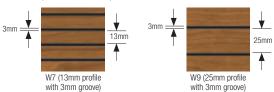
(PLC)



Available

### **IMAGES PERFORATION OPTIONS**

(Actual 1:2 scale shown)





W9 (25mm profile with 3mm groove)

# WOODWORKS® Channeled

Tegular





RECYCLED

LOCATION DEPENDENT

ACOUSTICAL INFORMATION

WITH

Dots represent high

level of performance.

VISUAL SELECTION

\*Images™ products are not FSC or Rainforest Alliance Certified

**PERFORMANCE** 

Edge Profile	ltem No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations	Fire Rating
FSC®-certified W00	DWORKS® Channel	ed Tegular Veneers Perfora	ated (with Acoustical Fleece)	
9/16" Tegular	5904	24 x 24 x 3/4"	W7, W8, W9	Class A
W00DW0RKS® Cha	nneled Tegular Imag	ges™ Finishes Perforated (	with Acoustical Fleece)	
9/16" Tegular	6683	24 x 24 x 11/16"	W7, W9	Class A
	6681	12 x 48 x 11/16"		
	6685	24 x 48 x 11/16"		
	6687	30 x 30 x 11/16"		

◆ When specifying or ordering, include the appropriate 2-letter perforation suffix and the color suffix (e.g., 6683W 7 P M P.)

#### ACOUSTICAL INFILL PANELS

Item No.	Description	Dimensions (Inches) Nominal W x L x H	Color	Pcs/ Crtn
1713	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	White	14
2820	Calla® Square Lay-in Acoustic Panel	24 x 24 x 1"	White	10

#### **ACCESSORIES**

Natural Variations™ and Images™ finishes are designed to coordinate with each other. Trim and infill panels are available. See Pgs. 183-184 in this catalog

#### SUSPENSION SYSTEMS

PHYSICAL DATA

Material

Surface Finish

9/16" Tegular Silhouette® Suprafine® Interlude® XI ® HRC

Suprafine suspension system is available in many standard colors.

material FSC®-certified fire-retardant medium-density fiberboard with face-cut veneers (RA-C0C-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit

Fire Performance ASTM E84 surface burning characteristics. Flame

Spread Index 25 or less. Smoke Developed Index 50 or less. CAN/ULC S102 surface burning

armstrongceilings.com/woodworksfsc

Clear or tinted semigloss coating

All other suspension systems are available in standard White only. Other colors available as special order.

#### characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less

#### **Acoustical Performance**

CAC testing conducted using Silhouette® suspension system.

#### **ASTM E1264 Classification** Composite - Fire Class A

**Application Considerations** 

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

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# Specification Consideration

Attention: For FSC certified wood products to maintain their CoC certification, products must be sold to a CoC certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

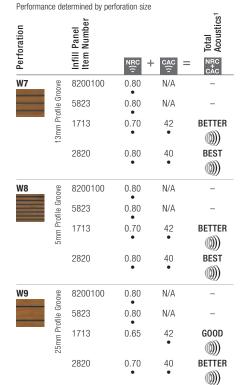
#### Seismic Restraint

WoodWorks Channeled wood panels have been engineered, tested, and approved in all seismic areas when installed per Armstrong Ceilings installation

Warranty Details at armstrongceilings.com

#### Panel Weight

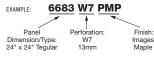
2.2 lbs/SF (Bulk packaged)



1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+)

BEST (NRC 0.80+; CAC 35+)

For infill panel information, refer to Pg. 184.





WoodWorks® Channeled ceiling panel with Calla® 2820 acoustic infill panel for Total Acoustics® performance







See more photos at: armstrongceilings.com/photogallery

These FSC®-certified ceiling panels are available in rich, real wood veneers or economical Wood Looks™ visuals.

#### **KEY SELECTION ATTRIBUTES**

- Real wood veneers or Images<sup>™</sup> high-quality printed visuals
- · Create a continuous ceiling, cloud, or ceiling-to-wall transition
- · Acoustical backing improves sound quality
- · Shorter lead times and lower costs than custom millwork
- · Class A fire performance

#### Natural Variations™ Finishes

- · FSC chain of custody (CoC) certified WoodWorks® products represent responsible production and consumption practices from the forest to the consumer
- · 100% Biobased content
- BioAcoustic<sup>™</sup> infill panels can enhance acoustics and contribute to LEED® credits

#### Images<sup>™</sup> Finishes

- · Larger Vector panel sizes 24" x 48", 12" x 48", and 30" x 30" for even more design flexibility
- BioAcoustic<sup>™</sup> infill panels can enhance acoustics and contribute to LEED® credits

## **VENEERS** Due to printing limitations, shade may vary from actual product.

#### Natural Variations (Real Wood Veneers)



Light Cherry (NMP) (NLC)



Dark Cherry (NDC)



Custom Veneers Available

#### VENEER PERFORATION OPTIONS



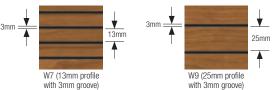
#### IMAGES™ FINISHES

(High-Quality Printed Finishes)



### **IMAGES PERFORATION OPTIONS**

(Actual 1:2 scale shown)





25mm

## WOODWORKS® Channeled

CERTIFIED BIOBASED PRODUCT



For LEED contribution contact TechLine

WITH INFILL PANEL

VISUAL SELECTION

**Vector®** 

\*Images™ products are not FSC or Rainforest Alliance Certified

**PERFORMANCE** ACOUSTICAL INFORMATION

Perforat	ion	NRC panels	
W7	13mm Profile Groove	0.65 0.80†	
W8	5mm Profile Groove	0.65 0.80† •	
W9	25mm Profile Groove	0.65 0.80† •	
	en installed 00100 or 5	with acoustic 479)	al infill
EXAMPLE:	6682	W7 PMF	
Pane Dimension		erforation: W7	Finish: Images

Dimensions Nominal W x L x H Perforations Edge Item Fire Rating Profile No. ◆ (Inches) FSC®-certified WOODWORKS Channeled Vector® Veneers Perforated (with Acoustical Fleece) 1/4" Reveal with 24 x 24 x 3/4" W7, W8, W9 Class A 15/16" Vector WOODWORKS Channeled Vector Images™ Finishes Perforated (with Acoustical Fleece) 1/4" Reveal with 24 x 24 x 11/16" Class A 15/16" Vector عَلْدَ 6680 \_ \_ \_ \_ 12 x 48 x 11/16" 6684 \_ \_ \_ \_ \_ 24 x 48 x 11/16" 6686 \_ \_ \_ \_ \_ 30 x 30 x 11/16"

◆ When specifying or ordering, include the appropriate 2-letter perforation suffix and the color suffix (e.g., 6682<u>W 7 P M P.)</u>

#### SUSPENSION SYSTEMS

15/16" Vector



Prelude suspension system is available in many standard colors. All other suspension systems are available in standard White only. Other colors available as special order

#### **ACCESSORIES**

Natural Variations<sup>™</sup> and Images<sup>™</sup> finishes are designed to coordinate with each other. Trim and infill panels are available. See Pgs. 199-200 in this catalog or visit armstrongceilings.com/woodworks

### PHYSICAL DATA

FSC®-certified fire-retardant medium-density fiberboard with face-cut veneers (RA-C0C-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit armstrongceilings.com/woodworksfsc

#### Surface Finish

Clear or tinted semigloss coating

Fire Performance
ASTM E84 surface burning characteristics. Flame
Spread Index 25 or less. Smoke Developed Index 50
or less. CAN/ULC S102 surface burning
characteristics. Flame Spread Rating 25 or less.
Smoke Developed Classification 50 or less.

TechLine / 1 877 276-7876

armstrongceilings.com/woodworks (search: woodworks channeled vector)

BPCS-5417-517

### **ASTM E1264 Classification**

Composite - Fire Class A

### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

#### Specification Consideration

Attention: For FSC certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

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#### Seismic Restraint

WoodWorks Channeled wood panels have been engineered, tested, and approved in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty** Details at armstrongceilings.com

#### Panel Weight

2.2 lbs/SF (Bulk packaged)



## WOODWORKS® Channeled

#### **Planks**



These FSC®-certified ceiling panels are available in rich, real wood veneers or economical Wood Looks visuals.

#### **KEY SELECTION ATTRIBUTES**

- · Create a continuous ceiling or cloud
- · Create a ceiling-to-wall transition
- · Real Wood Veneers
- · Acoustical backing improves sound
- · Shorter lead times and lower costs than custom millwork
- · Class A fire performance

#### Natural Variations™ Finishes

- FSC® chain of custody (CoC) certified WoodWorks® products represent responsible production and consumption practices from the forest to the consumer
- · 100% Biobased content
- BioAcoustic<sup>™</sup> infill panels can enhance acoustics and contribute to LEED® credits

#### Images<sup>™</sup> Finishes

- · Larger Tegular and Vector® panel sizes -24" x 48", 12" x 48", and 30" x 30" for even more design flexibility
- . BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

## **VENEERS** Due to printing limitations, shade may vary from actual product.

# Natural Variations (Real Wood Veneers)

Maple (NMP)

Light Cherry

(NLC)



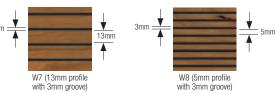






Custom Veneers Available

### **VENEER PERFORATION OPTIONS**



#### IMAGES™ FINISHES

(High Quality Printed Finishes)







Light Cherry Dark Cherry (PLC) (PDC)

#### **IMAGES PERFORATION OPTIONS**

(Actual 1:2 scale shown)





25mm

W9 (25mm profile with 3mm groove)

25mm

TechLine 877 276-7876 armstrongceilings.com/woodworks

## WOODWORKS® Channeled





RECYCLED П

For LEED contribution contact TechLine

WITH INFILL PANEL

#### VISUAL SELECTION

**Planks** 

\*Images™ products are not FSC or Rainforest Alliance Certified

#### **PERFORMANCE** ACOUSTICAL INFORMATION

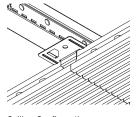
	••		or riaminorous rimarioo	Corumod				
Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available		Perforations	Fire Rating	Dots repre		evel of performance.  NRC planks
FSC®-certified WOO	DWORKS® Chann	neled Plank Veneers Pe	erforated (with	n Acoustical Fleece)		W7	Profile Groove	0.50
Tongue-and-Groove	5900C	5.553 x 96 x 3/4"		W7, W8, W9*	Class A		13mm Pro Gro	0.70†
	5901C	5.553 x 120 x 3/4"		W7. W8. W9*	Class A	W8	5mm Profile Groove	0.75 0.95†
	33010	0.000 X 120 X 0/4		W7, W0, W3	Oldso A	W9	25mm Profile Groove	0.50 0.75†
W00DW0RKS® Cha	nneled Plank Ima	iges™ Finishes Perfora	ted (with Acou	ustical Fleece)				with acoustical infill
Tongue-and-Groove	6688C	5.553 x 96 x 11/16"		W7, W9*	Class A	EXAMPLE: Panel Dimension/	Type:	E W7 NMP  erforation: Finish: W7 Natural Variations™
	ccooo	F FF0 100 11/100		WZ WO+	Ol A	24" x 24" To	eguiar	13mm Maple

W7. W9\*

When specifying or ordering, include the appropriate 5-letter perforation and color suffix (e.g., 6688CW 7 NMP.) Size width for panels with W9 perforation is 5.393"

6689C \_ \_ \_ \_ \_

#### INSTALLATION DETAILS

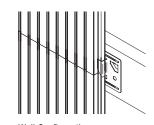


Ceiling Configuration with Clip 5839



5.553 x 120 x 11/16"

Ceiling Configuration with Clip 5839 using Wall Furring Strips



Class A

Wall Configuration with Clip 5839

### SUSPENSION SYSTEMS

15/16"



Prelude® XI ® (Black recommended)

#### **CEILING PLANK CLIPS**

Item Number

5389

Description Channeled Panel Clip

**Dimensions** 

Pcs./Ctn. Color N/A 250

#### **ACCESSORIES**

Natural Variations™ and Images™ finishes are designed to coordinate with each other. Trim and infill panels are available. See Pgs. 199-200 in this catalog or visit armstrongceilings.com/woodworks

#### PHYSICAL DATA

#### Material

FSC®-certified fire-retardant medium-density fiberboard with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit armstrongceilings.com/woodworksfsc

### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less

#### TechLine / 1 877 276-7876 armstrongceilings.com/woodworks (search: woodworks channeled plank)

BPCS-5124-517

#### **ASTM E1264 Classification**

Composite - Fire Class A

#### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

#### **Specification Consideration**

Attention: For FSC certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

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#### Seismic Restraint

WoodWorks Channeled wood planks have been engineered, tested, and approved in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty** Details at armstrongceilings.com

Panel Weight 2.2 lbs/SF (Bulk packaged)



## WOODWORKS® Concealed

### Concealed Suspension



This easy-to-install ceiling with a concealed suspension offers a continuous, monolithic visual.

#### **KEY SELECTION ATTRIBUTES**

- · Mix and match standard panel sizes on the same project
- · Narrow 1/4" reveal visual and 6" aluminum trim available in coordinating wood finishes, or black
- · Coordinating WoodWorks® walls (see pages 453-454 for wall offering)
- Patented hook-on panels (for standard 15/16" suspension system) provide safe and secure downward accessibility
- · Shorter lead times and lower cost than custom millwork
- · Factory-edge banded for superior quality
- · Complete standard system from one manufacturer (suspension system/ panels/trim)

**VENEERS** Due to printing limitations, shade may vary from actual product.

Light Cherry



Beech Maple



0ak



#### Constants™ (Real Wood Veneers)







Walnut



Bamboo\*

Patina



only requires 3-7 years for maturity and does not have to be replanted after each harvest.



(BAN) \* Veneer is rapidly renewable. Bamboo is a grass that

#### PERFORATION OPTIONS (Actual 1:6 scale shown)

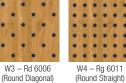


W2 - Rg 6006 (Unperforated) (Round Straight)



Dark Cherry

(NDC)

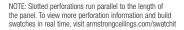








**Custom Perforations** Available



(Oval Straight Slotted) (Oval Straight Slotted)





## WOODWORKS® Concealed





Ш

**PERFORMANCE** 

LOCATION DEPENDENT

RECYCLED

WITH INFILL PANEL

#### VISUAL SELECTION

Concealed Suspension

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations	Fire Rating	Soil
FSC®-certifi	ied WOODWORI	KS® Concealed			
1/4" Reveal	5983	24 x 48 x 3/4"	W1, W2, W3, W4, W5, W6	Class A	•
	5984	24 x 72 x 3/4"	W1, W2, W3, W4, W5, W6	Class A	•
	5985	24 x 96 x 3/4"	W1, W2, W3, W4, W5, W6	Class A	•

◆ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes. For veneers, sizes, and perforation patterns available as special order, call TechLine at 1 877 276-7876.

#### **ACCESSORIES**

Item No. ◆	Description	Dimensions Nominal (Inches)	Color	Pieces/ Carton
6603W1	WoodWorks Concealed Trim*	6" x 120"	Standard Veneers (see below)	6
8200100	Fiberglass Infill Panel	24 x 24 x 1"	Black	12
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
6408	Edge Banding	300" x 3/4"	Standard Veneers (see page 152)	1

♦ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6408 N M P)

#### Trim cartons include FXTBC Clips and FX4SPLICE Splice Plates.

#### ACOUSTICAL INFORMATION Data rapragant high lavel of parforms

Perforati	on	NRC**	
W1	Unperforated	N/A	
W2	Round Straight	0.40	
W3	Round	0.40	
W4	Round Straight	0.65	
W5	Oval Straight Slotted	0.40	
W6	Oval Straight Slotted	0.40	

Maximum NRC achieved with acoustical infill (item 8200100, 5479, or 5823). When infill is used, CAC is 28.

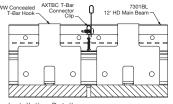


SUSPENSION SYSTEMS When ordering suspension system materials, please note that this product requires Prelude® Heavy-duty (HD) main beams and 2' cross tees that are full height (1-11/16"). Both suspension system components should be specified in Tech Black (BL).

#### 15/16" Standard: Prelude® BL (Tech Black)

Item Number	Description	Dimensions (Inches)	Pieces/Carton
5986	T-Bar Hook†	Nominal 4 x 2 x 3"	50
7123	Wood Screws	5/8"	300/Pckg
6091	Safety Cable	24" x 3/32"	50
SH12	Support Hanger	144" x 2"	12

For 24 x 48" panel, install 4 hooks; for 24" x 72" panel, install 6 hooks; for 24" x 96" panel, install 8 hooks. NOTE: Three screws per hook. Refer to installation instructions at armstrongceilings.com/installation for a better understanding of suspension systems requirements.



Installation Detail WoodWorks Concealed Ceiling System

### PHYSICAL DATA

#### Material

material
FSC®-certified fire-retardant particle board with
face-cut veneers (RA-COC-003601). For more
information about FSC®-certified products,
or to view our FSC®-certification letter,
visit armstrongceilings.com/woodworksfsc 6603 - Face-cut veneer or black paint on aluminum laminate substrate

Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

TechLine / 1 877 276-7876 armstrongceilings.com/woodworks (search: woodworks concealed)

BPCS-5105-517

#### **ASTM E1264 Classification**

Composite - Fire Class A

Primary (Embodied) Energy See all LCA information on our EPDs.

#### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

Use of large wood panels may result in deflection up to 1/8" and cause alignment inconsistency due to size and ambient conditions.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

#### **Design Considerations**

For additional configuration ideas, refer to the WoodWorks Concealed Technical Guide, BPCS-4274, or visit armstrongceilings.com/woodworks

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#### **Specification Consideration**

Attention: For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC certified distributor, or directly to the installing contractor. Failure to do so breaks the  ${\sf CoC.}$ 

#### Seismic Restraint

WoodWorks Concealed panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

Warranty
Details at armstrongceilings.com

#### Weight/Square Feet

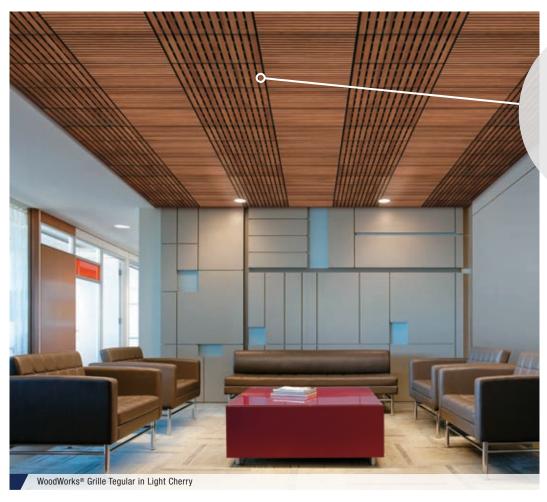
5983, 5984, 5985 - 2.75 lbs/SF; bulk packaged per order. Suspension system, hardware, and accessories ordered



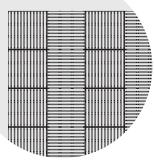
 ${\sf W00DW0RKS}_{@}$ 

## WOODWORKS® Grille Tegular





CAD/Revit® drawings at: armstrongceilings.com





Now get Total Acoustics® performance with WoodWorks® Grille Tegular horizontal slats - excellent noise reduction and sound blocking in one system.

#### **KEY SELECTION ATTRIBUTES**



- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Painted white finish for even more design flexibility
- · Vertical slats are deeper than they are wide creating a more open feel
- · Horizontal slats are wider than they are deep creating a warm, more solid look
- 24" x 24" and 24" x 48" sizes available in vertical and horizontal slat designs
- FSC® and Rainforest Alliance® Certification available upon request
- · Panels are designed so the suspension system virtually disappears
- · Tegular panels with backers easily install on standard suspension system
- · Create continuous looks and clouds with Axiom® trim

### **FINISH SELECTION**

Due to printing limitations, shade may vary from actual product.



(GWH)



Grille Maple (GMP)



Grille Light Cherry (GLC)



Grille Dark Cherry (GDC)



Grille Walnut (GWN)



Custom Finishes Available

#### **TOTAL ACOUSTICS®** PANEL INSTALLATION



WoodWorks® Grille ceiling panel with Calla® 2820BK acoustic infill panel for Total Acoustics® performance



Tegular



CERTIFIED BIOBASED PRODUCT





VISUAL SELECTION

**PERFORMANCE** 

**ACOUSTICAL INFORMATION** Performance determined by slat spacing

Dots represent high level of performance.

WITH	
INFILI	
PANE	

Edge Profile	ltem No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Fire Rating
FSC®-certified W	00DW0RKS® Grill	e Tegular for 9/16"	Suspension System	
9/16" Tegular with Horizontal Slats	662808	1/2" x 1-1/2" 12 horizontal slats	24 x 24 x 1"	See physical data below
	663008	1/2" x 1-1/2" 12 horizontal slats	24 x 48 x 1"	See physical data below
9/16" Tegular with Vertical Slats	662912	1/2" x 1-1/2" 12 vertical slats	24 x 24 x 2"	See physical data below
FSC®-certified W	00DW0RKS Grille	Tegular for 15/16"	Suspension System	
15/16" Tegular with Horizontal Slats	662812	1/2" x 1-1/2" 10 horizontal slats	24 x 24 x 1"	See physical data below
	663012	1/2" x 1-1/2" 10 horizontal slats	24 x 48 x 1"	See physical data below
15/16" Tegular with Vertical Slats	663112	1/2" x 1-1/2" 12 vertical slats	24 x 48 x 2"	See physical data below

Item Number	II Panel n Number			Total Acoustics
Iter	Infill	NRC -	CAC =	NRC CAC
<b>662808</b> 9/16" Tegular	5823	0.75	N/A	-
3/10 legalar	1713BL	0.75	35	BETTER
	2820BK	0.85	35	BEST
<b>662812</b> 15/16" Tegular	5823	0.75	N/A	_
10/10 legular	1713BL	0.75	35	BETTER
	2820BK	0.85	35	BEST

GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+)

BEST (NRC 0.80+; CAC 35+)

For infill panel information, refer to Pg. 200.

#### **ACCESSORIES**

Item No. ◆	Description	Dimensions Nominal W x L x H (Inches)	Color	Pcs./ Ctn.
AX4VESTRBL	4" Axiom® Vector®*	120 x 3/4 x 4"	Black (BL)	-
AX6VESTRBL	6" Axiom Vector*	120 x 3/4 x 6"	Black (BL)	-
AX4VEQSISBL	4" Inside Corner Post	3/4 x 3/4 x 4"	Black (BL)	-
AX6VEQSISBL	6" Inside Corner Post	3/4 x 3/4 x 6"	Black (BL)	-
AX4VEOSCPBL	4" Outside Corner Post	3/4 x 3/4 x 4"	Black (BL)	_
AX6VEOSCPBL	6" Outside Corner Post	3/4 x 3/4 x 6"	Black (BL)	_

◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 663008 G L C). NOTE: For additional color and size options, call TechLine at 1 877 276-7876

Item No.	Description	Dimensions Nominal W x L (Inches)	Color	Pcs./ Ctn.
AXTBC	T-Bar Connector Clip	N/A	N/A	10
AXSPLICE	Splice Plate with Setscrews	N/A	N/A	10
SH12	Support Hanger	144" x 2"	N/A	12
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
1713BL	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	Tech Black	14
2820BK	Calla® Square Lay-in Acoustic Panel	24 x 24 x 1"	Black	10

#### SUSPENSION SYSTEM

15/16" Prelude® XL® (Black recommended), 360° Painted with 4' cross tee rout holes at 12" 9/16" Suprafine® XL® 9/16" Exposed Tee (Black recommended)

#### TRIM AND ACOUSTICAL INFILL PANELS

Trim and infill panels available. See Pgs. 199-200 in this catalog or visit armstrongceilings.com/woodworks

#### PHYSICAL DATA

Material Solid Poplar (yellow or hybrid) (RA-COC-003601)

### Surface Finish

Clear or tinted semigloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

#### Fire Performance

Solid Poplar Hardwood Slats and Backers ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index

Composite Grille product testing has not been completed, since results will vary on a project-by-project basis. Contact TechLine at 1 877 276-7876 for details.

> TechLine / 1 877 276-7876 armstrongceilings.com/woodworks

BPCS-5124-517

(search: woodworks grille tegular)

WoodWorks® Grille, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. For more fire performance information, visit armstrongceilings.com/grille

#### **Acoustics Considerations**

NRC-tested using white panels. Painted panels may experience a slight reduction in NRC due to color painting

#### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

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#### **Design Considerations**

If no infill panel is used, unfinished parts of the suspension system and Axiom® trim will be visible from below.

Item 662912 24" x 24" vertical slat panels are designed for checkerboard only. An uneven reveal between slats will be visible, if installed in a linear fashion.

#### Seismic Restraint

WoodWorks Grille has been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

### Warranty

Details at armstrongceilings.com

#### Weight (Bulk packaged)

662808, 662912, 663008, 663112 – 0.875 lbs/SF 662812, 663012 – 0.775 lbs/SF



<sup>\*</sup> Trim cartons include AXTBC Clips and AXSPLICE Splice Plates.

Solid Wood Backer, Dowel, and Backer & Dowel Combination



These warm, natural wood ceilings offer installation flexibility and a variety of design options.

#### **KEY SELECTION ATTRIBUTES**

- 13 pre-designed panels with new slat heights and widths
- · Custom slat sizes and finishes available for every project
- · Now, painted White finish for maximum design flexibility
- · Install in the ceiling, on the wall, or create 90° angled or faceted ceiling-to-wall transitions
- · Easy installation with dowel or backer, or backer and dowel combination
- FSC® and Rainforest Alliance Certified wood options available

#### **FINISH SELECTION**

Due to printing limitations, shade may vary from actual product.



(GWH)









Cherry (GLC)



Cherry (GDC)

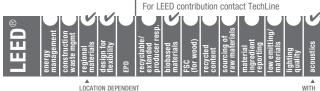


Grille Walnut (GWN)



Custom Finishes Available

Solid Wood Backer, Dowel, and Backer & Dowel Combination

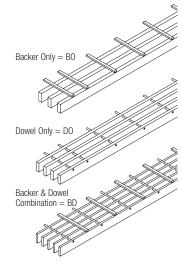


#### **ACOUSTICAL INFORMATION**

Dots represent	high	level	of	performanc
----------------	------	-------	----	------------

Infill Panel Item Number			Total Acoustics <sup>1</sup>
Infi	NRC +	CAC =	NRC
5823	0.85	28	_
8200100	0.90	28	-

#### SUFFIX GUIDE



#### **VISUAL SELECTION**

Edge Profile	ltem No. ◆	Slat Width	Slat Height	Slats Per Panel	Slat Spacing (Nominal)	Dimensions (Inches) Nominal W x L x H*
		Custo	m Slat Sizes	Available		Custom Panel Sizes Available
WOODWORKS G	rille – Backer, Dov	wel, and B	acker & [	owel Comb	ination	
Backer, Dowel, or Backer & Dowel	7263	5/8"	1-3/8"	6 slats	1-3/8"	12 x 96 x 1-7/8" Backer Only 12 x 96 x 1-3/8" Dowel Only
Combination	7264	5/8"	1-3/8"	8 slats	7/8"	12 x 96 x 1-7/8" Backer Only 12 x 96 x 1-3/8" Dowel Only
	7265	5/8"	2-1/4"	6 slats	1-3/8"	12 x 96 x 2-3/4" Backer Only 12 x 96 x 2-1/4" Dowel Only
	7266	5/8"	2-1/4"	8 slats	7/8"	12 x 96 x 2-3/4" Backer Only 12 x 96 x 2-1/4" Dowel Only
	7091	5/8"	3-1/4"	5 slats	1.75"	12 x 96 x 3-3/4" Backer & Dowel 12 x 96 x 3-1/4" Dowel Only
	7092	5/8"	3-1/4"	6 slats	1-3/8"	12 x 96 x 3-3/4" Backer & Dowel 12 x 96 x 3-1/4" Dowel Only
	7093	5/8"	4-1/4"	5 slats	1.75"	12 x 96 x 4-3/4" Backer & Dowel 12 x 96 x 4-1/4" Dowel Only
	7094	1"	2-1/4"	4 slats	2"	12 x 96 x 2-3/4" Backer Only 12 x 96 x 2-1/4" Dowel Only
	7095	1"	3-1/4"	4 slats	2"	12 x 96 x 3-3/4" Backer Only 12 x 96 x 3-1/4" Dowel Only
	7096	1"	4-1/4"	4 slats	2"	12 x 96 x 4-3/4" Backer & Dowel 12 x 96 x 4-1/4" Dowel Only
	7097	1-1/4"	3-1/4"	3 slats	2-3/4"	12 x 96 x 3-3/4" Backer Only 12 x 96 x 3-1/4" Dowel Only
	7098	1-1/4"	4-1/4"	3 slats	2-3/4"	12 x 96 x 4-3/4" Backer & Dowel 12 x 96 x 4-1/4" Dowel Only
	7099	1-1/4"	5-1/4"	3 slats	2-3/4"	12 x 96 x 5-3/4" Backer & Dowel 12 x 96 x 5-1/4" Dowel Only

◆ When specifying or ordering please include the installation type and color suffixes (e.g., 7092 B D G L C – 6 slats 3-1/4" Backer & Dowel in Grille Light Cherry).
Installation suffixes: BO = Backer, DO = Dowel, BD = Backer & Dowel Combination
NOTE: For additional color and size options, or curved applications options with flexible Backers (special order), call TechLine at 1 877 276-7876.

\* Actual panel length is 95"

**ACCESSORIES** 

	Item No. ◆	Description	Dimensions Nominal W x L (Inches) Custom Sizes Available	Color (Refer to Pg. 185)	Pcs/ Ctn
Д	5672	Junction – 1-3/8"	1-1/2 x 96 x 2"	All finishes	Bulk
	5674	End Cap — 1-3/8"	3/4 x 96 x 2"	All finishes	Bulk
	5675	End Cap - 2-1/4"	3/4 x 96 x 2-3/4"	All finishes	Bulk
	7170	End Cap - 3-1/4"	3/4 x 96 x 3-3/4"	All finishes	Bulk
	7171	End Cap - 4-1/4"	3/4 x 96 x 4-3/4"	All finishes	Bulk
	7172	End Cap - 5-1/4"	3/4 x 96 x 5-3/4"	All finishes	Bulk
	5687	Backer Clip	3/8 x 11/16 x 7/8"	N/A	250

	Item Number ◆	Description	Dimensions Nominal W x L (Inches) Custom Sizes Available	Color (Refer to Pg. 185)	Pcs/ Ctn
	5688	Dowel Clip	3/8 x 7/8 x 7/8"	N/A	250 pcs/pail
	5671	Ledger	1 x 96 x 1/4"	All finishes	Bulk
	7891	12 Gauge Soft Hanger Wire	144" Length	N/A	140
	92715A620	Self-tapping Screws	#2 x 3/4" Length	Black	25
	6459BL	Uptight Clip	5-1/2 x 1-3/4"	Black	25
	RC2BL	RC2 Radius Clip	N/A	Black	205

♦ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling: (e.g., 5671 G M P).

#### SUSPENSION SYSTEMS

15/16"



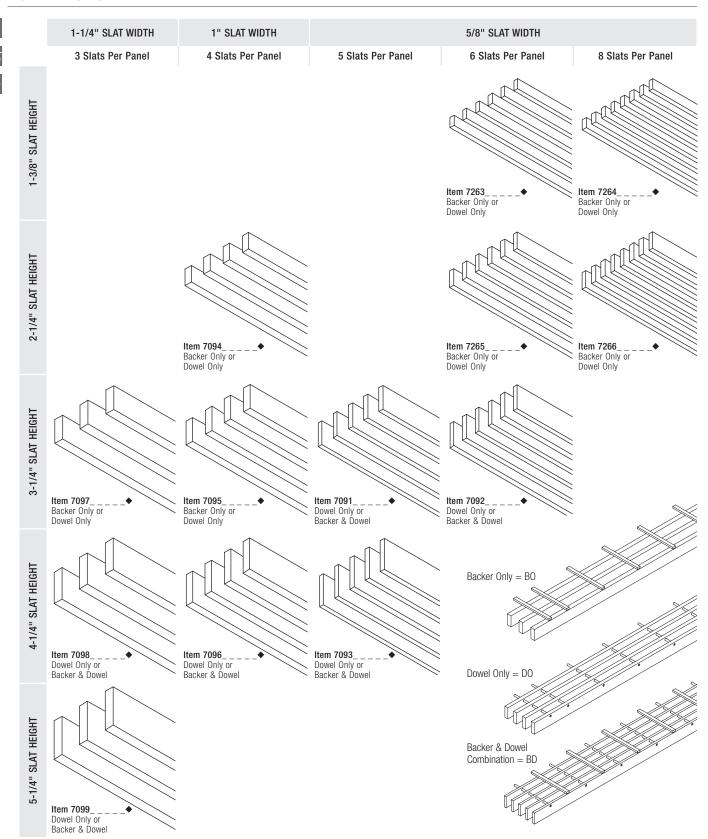
#### TRIM AND ACOUSTICAL INFILL PANELS

Trim and infill panels available. See pages 199-200 in this catalog or visit armstrongceilings.com/woodworks



Solid Wood Backer, Dowel, and Backer & Dowel Combination

#### STANDARD SIZES

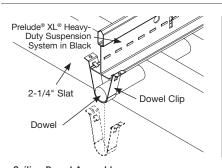


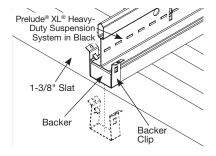
◆ When specifying or ordering please include the installation type and color suffixes (e.g., 7092 B D G L C - 6 slats 3-1/4" Backer & Dowel in Grille Light Cherry).

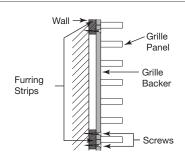


#### Solid Wood Backer, Dowel, and Backer & Dowel Combination

#### SYSTEM INSTALLATION DETAILS







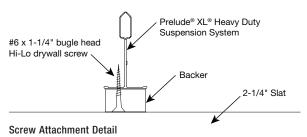
### Ceiling Dowel Assembly

Ceiling Backer Assembly

#### Wall Backer Assembly

Slat sizes over 2-1/4" are not recommended for wall applications. Contact TechLine for details at 1 877 276-7876.





NOTE: See Woodworks® Grille installation instructions for details on faceted installation.

#### ACOUSTICAL PERFORMANCE

Noise Reduction Coefficient, or NRC, is a measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. WoodWorks® Grille has an NRC value of 0.85 when installed with a BioAcoustic™ infill panel 5823.

NRC is important in any closed space where reverberation time and noise levels are an issue:

- · Closed offices, conference rooms
- · Mixed plan office
- · Lobby, reception, and work areas
- · Classrooms/core learning areas, gymnasiums, cafeterias
- · Retail spaces; checkout and other customer contact areas

Factors that may affect the installed acoustical performance relative to the published results are:

- Size of area
- Number of panels
- · Layout of panels

- · Suspension distance below exposed deck or finished ceiling
- · Other surfaces in the space

Ceiling	Exposed Structure (no Ceiling)	Ultima® (100% Ceiling)	WoodWorks Grille (100% Ceiling)
Reverberation Time (RT)			0.5 seconds
RT Improvement	RT Improvement N/A		85%
Background Noise Reduction in Decibels (dB)	N/A	4.7dB	5.8dB

NOTE: You can calculate the acoustical difference that WoodWorks Grille panels can make in your space by using our online Reverb Calculator Tool at armstrongceilings.com/reverbtool

#### PHYSICAL DATA

#### Material

Dowel, Slats, Backers, and Tegular panels – solid Poplar (yellow or hybrid).

### Surface Finish

Clear or tinted semigloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

#### Fire Performance

Solid Poplar (yellow or hybrid) Hardwood Slats

Solid Poplar (yellow or hybrid) Hardwood Slats and Backers – Class C ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Fire performance will vary between wood species. Contact TechLine at 1 877 276-7876 for details.

These panels, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device.

Consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

#### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

#### **Design Considerations**

Custom slat and panel sizes available.

#### Backer & Dowel

For slat heights over 5", both Dowels and Backers are required for stability. Backer height is 1/2".

#### Inflill Panel Use

If no infill panel is used, unfinished parts of the suspension system and Axiom® trim will be visible from below

#### Site Conditions

It is very important that panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained

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#### Installation Consideration

When junction accessory is not used, the result will be a 1" gap between slat lengths.

#### Seismic Restraint

WoodWorks® Grille panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Details at armstrongceilings.com

#### Weight

Weight 7263 - 2.0 lbs/SF 7264 - 2.6 lbs/SF 7265 - 2.8 lbs/SF 7091 - 3.2 lbs/SF 7093 - 3.0 lbs/SF 7092, 7094, 7097 - 3.4 lbs/SF

7095 - 3.5 lbs/SF 7266, 7096, 7098 – 3.6 lbs/SF 7099 – 4.37 lbs/SF



#### Solid Wood Panels



Traditional or easy-to-install panels offer multiple ways to achieve a linear look.

#### **KEY SELECTION ATTRIBUTES**

#### **Solid Wood Panels**

- Two plank widths nominal 3" and nominal 5" - in four rich finishes
- Fast, easy installation screw into suspension system or install with backer clip
- · Create continuous looks and clouds with solid wood trim
- Complete standard system from one manufacturer
- BioAcoustic<sup>™</sup> infill available for increased acoustical performance
- · Acoustical fleece available as an option

#### **FINISH SELECTION**

Due to printing limitations, shade may vary from actual product.



Grille White (GWH)













Grille Light Cherry (GLC)

Grille Dark Cherry (GDC)

Grille Walnut (GWN)

Available

**CEILING & WALL SOLUTIONS** 

#### Solid Wood Panels





**PERFORMANCE** 

#### VISUAL SELECTION

Edge Profile	ltem No. ◆	Description	Dimensions Nominal W x L x (Inches) Custom Sizes Available	Н	Fire Rating	Acoustics NRC*
W00DW0RKS® Line	ar Solid Wood Panels					
	6693W1	Nominal 3" wide planks	12 x 96 x 3/4"		See below	0.60
	6694W1	Nominal 5" wide planks	12 x 96 x 3/4"		See below	0.50

<sup>♦</sup> When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling: (e.g., 6693W1 <u>G M P)</u>

NOTE: For additional color and size options, or acoustical felt available as a custom option, call TechLine at 1 877 ARMSTRONG.

#### **ACCESSORIES**

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/Carton	
7146	Solid Wood Trim	4 x 120 x 3/4"	See Finishes Below	Bulk	
5687†	Backer Clip	3/8 x 11/16 x 7/8"	N/A	250 pcs/pail	
5671	Ledger	1 x 96 x 1/4"	See Finishes Below	Bulk	
7891	12 Gauge Soft Hanger Wire	144" Length	N/A	140	
92715A620	Self-tapping Screws	#2 x 3/4" Length	Black	25	
6657	BioAcoustic™ Infill Panel	11 x 48 x 5/8"	Black (Matte)	10	

<sup>†</sup> Backer clip should only be used when installing panels with 3" wide nominal planks.

#### SUSPENSION SYSTEMS

15/16"



Prelude® XL® (Black recommended)

Wood is a natural product and will exhibit natural variations in color, grain, and texture, and knot holes of up to 1/2" in diameter







#### **ACCESSORIES**

Accessories, trim, and infill panels are available. See Pgs. 199-200 in this catalog or visit armstrongceilings.com/woodworks

#### PHYSICAL DATA

Planks and Backers – solid Poplar (yellow or hybrid)

#### Surface Finish

Clear or tinted semigloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

Fire Performance
Solid Hardwood Planks and Backers — Class C ASTM Solid Indiawood Fians and Backers - Class C Ashiw E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less. Fire performance will vary between wood species. Contact TechLine at 1 877 276-7876 for details.

WoodWorks® Linear Solid Wood Panels, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. systems are present.

### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

#### **Design Considerations**

t is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must he maintained

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#### Installation Consideration

System is designed to have a 1" gap between panels. Backer clip can only be used for installations of the panel with 3" nominal planks (Item 6693).

### Seismic Restraint

WoodWorks Linear solid wood panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

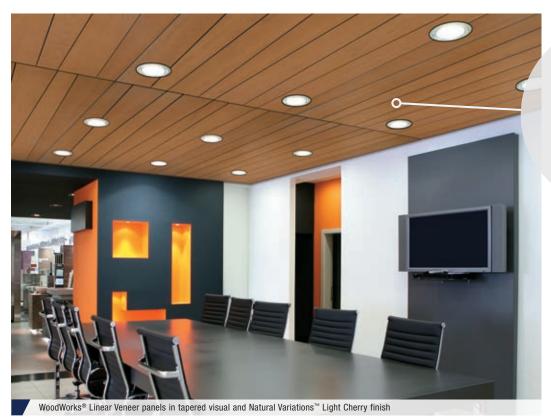
Details at armstrongceilings.com

Weight 6693 - 1.25 lbs/SF 6694 - 1.25 lbs/SF (Bulk packaged)

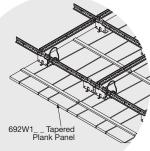


NRC achieved with acoustical infill (Item 82001007).

#### Veneered Panels



CAD/Revit® drawings at: armstrongceilings.com





See more photos at: armstrongceilings.com/photogallery

These unique tapered or traditional wood panels offer a variety of linear looks.

#### **KEY SELECTION ATTRIBUTES**

#### Veneered Panels

- · Panels in nominal 4" or 6" widths
- · Create continuous looks and clouds with veneer-wrapped and painted aluminum trim
- Hook-on panels (for standard 15/16" suspension system) provide safe and secure downward accessibility
- · Complete standard system from one manufacturer (suspension system/ panels/trim)
- · Factory-edge banded for superior quality
- · 100% Biobased content
- BioAcoustic<sup>™</sup> infill available for increased acoustical performance

**VENEERS** Due to printing limitations, shade may vary from actual product.

Light Cherry (NLC)





Beech (NBE)







Dark Cherry (NDC)



Constants™

Walnut (CWA)

Cherry (CCY)



Bamboo\*





Patina (BAP)



\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

Veneered Panels





П LOCATION DEPENDENT

**PERFORMANCE** 

**RECYCLED** 

WITH INFILL PANEL

#### VISUAL SELECTION

Edge Profile	ltem No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Fire	Acoustics NRC*
FSC®-certified WOO	DWORKS® Linear Venee	red Panels			
3/4" Reveal	6690W1	Nominal 4" wide planks	24 x 96 x 3/4"	Class A	0.45
1/4" Reveal	6691W1	Nominal 6" wide planks	24 x 96 x 3/4"	Class A	0.20
1/4" Reveal	6692W1	Tapered planks	24 x 96 x 3/4"	Class A	0.20

When specifying or ordering, include the appropriate 3-letter color suffixes. NOTE: Veneers and sizes available as special order; call TechLine at 1 877 276-7876.

#### EXAMPLE: 6690W1 NLC \ Finish: Dimension/Type: Natural Variations™ 2' x 8' Nominal Light Cherry 4" wide planks

#### **ACCESSORIES**

Item No. ◆	Description	Dimensions Nominal (Inches)	Color	Pieces/ Carton
6603W1	WoodWorks Concealed Trim**	6" x 120"	Standard Veneers and Black (BL)	6
8200100	Fiberglass Infill Panel	24 x 24 x 1"	Black	12
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
6408	Edge Banding	300" x 3/4"	Standard Veneers (see page 177)	1

<sup>◆</sup> When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6408 № № P)

\*\* Trim cartons include FXTBC Clips and FX4SPLICE Splice Plates.

#### SUSPENSION SYSTEMS When ordering suspension system materials, please note that this product requires Prelude® 15/16" Heavy-duty (HD) main beams and 2' cross tees that are full height (1-11/16"). Both suspension system components should be specified in Tech Black (BL).

Item Number	Description	Dimensions (Inches)	Pieces/Carton
5986	T-Bar Hook†	Nominal 4 x 2 x 3"	50
7123	Wood Screws	5/8"	300/Pkg
6091	Safety Cable	24" x 3/32"	50
SH12	Support Hanger	144" x 2"	12

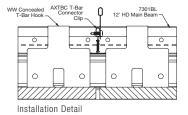
<sup>†</sup> For 24" x 96" panel, install eight hooks. NOTE: three screws per hook

**ASTM E1264 Classification** 

wide are not recommended.

16' wide cannot be done.

Composite - Fire Class A **Application Considerations** 



#### PHYSICAL DATA

#### Material

haterial FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit armstrongceilings.com/woodworksfsc

#### Surface Finish

Clear or tinted semigloss coating

**Fire Performance**ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

TechLine / 1 877 276-7876

BPCS-5126-517

## armstrongceilings.com/woodworks

## (search: woodworks linear veneered panels)

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Cloud installations with total panel width less than 6'

Cloud installations with total panel length less than

Variation among panels may occur due to the natural characteristics of the wood and grain.

Use of large wood panels may result in deflection up to

1/8" and cause alignment inconsistency due to size and ambient conditions.

maintained throughout the life of the product.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be

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#### Specification Consideration

Attention: For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

#### Seismic Restraint

WoodWorks® Linear panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions

#### Warranty

Details at armstrongceilings.com

**Weight** 6690, 6691, 6692 – 2.75 lbs/SF; bulk-packaged per order. Suspension system, hardware, and accessories ordered separately.



 ${\sf W00DW0RKS}_{@}$ 

<sup>\*</sup> NRC achieved with BioAcoustic™ infill (item 6657).

NOTE: Refer to installation instructions at armstrongceilings.com/installation for a better understanding of suspension system requirements.

#### Veneered Planks



Standard, easy-to-install wood veneer planks offer a variety of installation options.

Dark Cherry (NDC)

#### **KEY SELECTION ATTRIBUTES**

#### Lineared Planks

- · Standard wood planks in two widths; nominal 4-1/2" and 6" modules, with traditional 3/4" reveals
- · Standard factory-applied acoustic fleece
- · Installation system allows for installation on the ceiling, wall, at 90° angle, or in a curved ceiling-to-wall transitions (one-foot minimum radius)
- · Create upturns for continuous visuals and clouds with veneer-wrapped WoodWorks® Trim
- · Suspension system and planks from one manufacturer; improved for 30-50% faster installation
- · 100% Biobased content

**VENEERS** Due to printing limitations, shade may vary from actual product.





Walnut

(NWN)

Beech (NBE)







Oak

(NOK)



Walnut Espresso (NWE)

#### Constants™ (Real Wood Veneers)











Bamboo\*





\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.









PERFORMANCE

WITH INFILL PANEL

#### VISUAL SELECTION

Veneered Planks

Edge Profile	item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Fire	Acoustics NRC**
WOODWORKS® Linear – Nominal	4-1/2" Module			
	6440W1	96 x 3-3/4 x 3/4" with 3/4" reveal	Class A	0.45 0.60 <b>**</b>
	<b>6640W1</b> (FSC®-certified)	96 x 3-3/4 x 3/4" with 3/4" reveal	Class A	0.45 0.60 <b>**</b>
WOODWORKS Linear - Nominal (	6" Module			
	6460W1	96 x 5-1/4 x 3/4" with 3/4" reveal	Class A	0.40 0.50 <b>**</b>
	6660W1 (FSC®-certified)	96 x 5-1/4 x 3/4" with 3/4" reveal	Class A	0.40 0.50**

<sup>◆</sup> When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 6440W1 NMP)

#### ACCESSORIES For additional accessory items see pages 183-184. Item No. Description **Dimensions Nominal** Pieces/Carton (Inches) 5843 Linear Wood Panel Splice 100 5948 Linear and Channeled Trim Connector Clip N/A 30 RC2BL Radius Clip for faceted grid applications (Black) 205 pcs/bucket 6459RI Rigid Attachment Clip (Black) 5-1/2" x 1-3/4" 25 92715A620 Self-tapping Screws (Black) #2 x 3/4" Length 25

### TRIM AND ACOUSTICAL INFILL PANELS

Trim and infill panels are available. See Pgs. 199-200 in this catalog or visit armstrongceilings.com/woodworks

#### SUSPENSION SYSTEM

Item Number	Description	Dimensions (Inches)	Pieces/Carton
5370	12' HD Linear Carriers (concealed) with integral clips (factory-applied) for nominal 4-1/2" modules	144 x 15/16 x 1-11/16"	10 (Approx. 240 SF/ctn installed with planks)
5371	12' HD Linear Carriers (concealed) with integral clips (factory-applied) for nominal 6" modules	144 x 15/16 x 1-11/16"	10 (Approx. 240 SF/ctn installed with planks)

NOTE: For radiused applications, use standard panels and HD linear carriers faceted 12" on center with RC2BL clips.

#### PHYSICAL DATA

Fire-retardant particle board with face-cut veneers. FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products or to view our FSC®-certification letter, visit armstrongceilings.com/woodworksfsc

Factory-applied black fleece on each plank to cover

#### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

Linear wood, as with other architectural features located at the ceiling, may obstruct or skew the

(search: woodworks linear veneered planks)

TechLine / 1 877 276-7876 armstrongceilings.com/woodworks

BPCS-5127-517

planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13 and local codes for guidance where automatic fire detection and suppression systems are present

### ASTM E1264 Classification

Composite - Fire Class A

### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® planks are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 80°F, must be maintained.

**Specification Consideration**Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC certified distributor or directly to the installing contractor. Failure to do so breaks the CoC

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#### **Installation Considerations**

Installation can use staggered, random joints for a monolithic appearance or consistent lengths for a modular style. For expansion, a 3/4" gap is recommended at every 24-foot run of plank. See installation instructions BPLA-297443 at armstrongceilings.com/installation.

#### Seismic Restraint

WoodWorks Linear planks have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Warranty details at armstrongceilings.com

#### Weight

6440, 6640 – 2.88 lbs/SF 6460, 6660 – 2.89 lbs/SF (Bulk packaged)



<sup>\*\*</sup> Adding acoustical infill (item 8200100, 5479, or 5823) for 4-1/2" module increases the NRC to 0.60. Adding acoustical fiberglass infill for 6" module increases the NRC to 0.45; adding BioAcoustic™ infill 5479 increases NRC to 0.50. For additional infill options, refer to the Acoustical Infill Panels catalog page 200.

## WOODWORKS® Open Cell

Vector®



A decorative, solid wood ceiling that is 100% accessible

#### **KEY SELECTION ATTRIBUTES**

- · Enhance space volume with open structure design
- · Choose from a variety of standard designs and finishes
- · Mix panel sizes for a variety of looks
- · Vector edge detail provides safe and secure downward accessibility without tools and narrow reveal visual (1/4")
- · Suspension system, trim, and accessories designed and tested to work with WoodWorks® Open Cell panels
- BioAcoustic<sup>™</sup> infill panel can be used to enhance acoustics

 $\label{eq:FINISHES} \textbf{ Due to printing limitations, shade may vary from actual product.}$ 



Grille Maple (GMP) Cherry (GLC)



Grille Light



Grille Dark

Cherry (GDC)



(GWN)



Available

Custom Finishes

PANEL SELECTION



Item 6622 - Four Square Available 24" x 24" and 24" x 48"



Item 6623 - Multi-Square Available 24" x 24" and 24" x 48"



Item 6624 - Linear Available 24" x 24" only



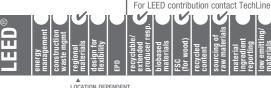
## WOODWORKS® Open Cell

**Vector®** 

VISUAL SELECTION

CERTIFIED BIOBASED PRODUCT





Dots represent high PERFORMANCE level of performance.

WITH
INFILL
PANEL

-W- DEF
<b>P</b>

Edge Profile	Item No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Fire Rating	J) Acoustics
FSC® certified	WOODWORKS® O	pen Cell Vector®			
1/4" Reveal with 15/16" Vector	6622	Four Square with 12" Cells	24 x 24 x 2-1/4"	See below	0.75
	6623	Multi-Square with 6" Cells	24 x 24 x 2-1/4"	See below	0.75 •
	6624	Linear with 6" Cells	24 x 24 x 2-1/4"	See below	0.75

24 x 48 x 2-1/4"

6626\_ \_ \_ Multi-Square with 6" Cells 24 x 48 x 2-1/4"

Four Square with 12" Cells



See below 0.75

See below

◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 6622 <u>G M P</u>). NOTE: For additional color and size options available as special order, call TechLine at 1 877 276-7876.

ACCESSORIES	For additional accessory items, see pages 199-200.

6625\_ \_ \_

Item No.	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Color	Acoustics NRC	Pieces/ Carton
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black (Matte)	0.75†	12

† Please note that NRC value for item 5823 is stated for infill-to-infill comparison. Actual NRC value will yarv based on panel and perforation selection.

#### **ACCESSORIES**

Accessories, trim, and infill panels are available. See Pgs. 199-200 in this catalog or visit armstrongceilings.com/woodworks

0.75

#### SUSPENSION SYSTEM

15/16"



#### PHYSICAL DATA

FSC®-certified solid Poplar (yellow or hybrid) (RA-COC-003601)

### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

Solid Poplar Hardwood – Class C ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

WoodWorks® Open Cell panels, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device.

Designers and installers are advised to consult a fireprotection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. For more information, visit armstrongceilings.com/woodworks

### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

Design Considerations
It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained. Exposed, unpainted back of Axiom® trim may be visible when using higher trims on full-size panel installation only.

#### Installation Consideration

Do not cut panels.

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WoodWorks Open Cell panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty** Details at armstrongceilings.com

**Weight** 6623, 6626 – 1.0 lbs/SF 6624 – 0.625 lbs/SF 6622, 6625 – 0.5 lbs/SF Bulk Packaged



## WOODWORKS® Family Trim and Accessories

## For LEED contribution contact TechLine WITH LOCATION DEPENDENT

**AXIOM® TRIM** 

#### WOODWORKS™ VENEER TRIM

Item No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Color	Pcs/ Ctn.
6603W1**	WoodWorks™ Concealed Trim (aluminum)	6" x 120"	See below	6
5415W1	4" WoodWorks Trim (with FSC®-certified wood substrate)	4 x 96 x 3/4"	See below	6
5419W1	6" WoodWorks Trim (with FSC-certified wood substrate)	6 x 96 x 3/4"	See below	4
5659W1**	4" WoodWorks Trim (with aluminum substrate)	4" x 120"	See below	6
5660W1**	6" Woodworks Trim (with aluminum substrate)	6" x 120"	See below	6
6408*	3/4" Edge Banding	3/4" x 300"	See below	1

- ◆ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6603W1N M P.)
- Images™ edge banding coordinates with Natural Variations™ Light Cherry, Dark Cherry, and Maple. Use the Natural Variations colors when ordering.
- \*\* FXTBC, FXPSPLICE, FX4SPLICE, included.

### ◆◆ When specifying or ordering, include the appropriate 2-letter color sufffix. \*\*\* Specify with WoodWorks™ aluminum substrate trim to be used with panels or planks that drop greater than 3/8" below the grid flange, such as Channeled, Lin-

#### **Dimensions** Item Description Nominal W x L x H Pcs/ No. ◆◆ (Inches) Ctn. AX4VESTR \_ \_ 4" Axiom® Vector® 120 x 3/4 x 4" AX6VESTR \_ \_ 6" Axiom Vector 120 x 3/4 x 6" AX4VEQSIS \_ \_ 4" Inside Corner Post 3/4 x 3/4 x 4" AX6VEQSIS 6" Inside Corner Post 3/4 x 3/4 x 6" AX4VEOSCP \_ \_ 4" Outside Corner Post 3/4 x 3/4 x 4" AX6VEOSCP \_ \_ 6" Outside Corner Post 3/4 x 3/4 x 6" **AXTBC** T-Bar Connector Clip 10 ev) 7239\*\*\* Adjustable Trim Clip 50 AXSPLICE Splice Plate with Setscrews 10

Color options see page 414. Trim cartons include AXTBC Clips and AXSPLICE Plates

INFILL PANEL

#### WOODWORKS™ VENEER TRIM FINISH SELECTION

Due to printing limitations, shade may vary from actual product.

Natural Variations™ (Real Wood Veneers)



(CMA)



Constants™ (Real Wood Veneers)

Light Cherry



(NLC)

Walnut

(CWA)

Dark Cherry

(NDC)

Redux Wood

Wheat (CRW)



(NWN)





(NWF)

Walnut Espresso

(NOK) Bamboo\*\*\*





(BAN)

Patina (BAP)

#### ACCESSORIES FOR VECTOR INSTALLATIONS

ear, or Grille products.

Item No.	Description
442	Hold Down Clip
7425	24" Stabilizer Bar
7445	48" Stabilizer Bar

Border Clip safety clip, and hold down clip (included in carton for 24" x 24" panels; shipped separately for 12" x 48" and 24" x 48")

#### SOLID WOOD TRIM FINISHES

Cherry

(CCY)

Due to printing limitations, shade may vary from actual product.



Grille Walnut

(GWN)

#### SOLID WOOD TRIM

Item No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Color	Pcs/ Ctn.
7146	Solid Wood Trim	4 x 120 x 3/4"	See left	Bulk





Grille Dark

Cherry (GDC)

Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

## WOODWORKS® Family Trim and Accessories

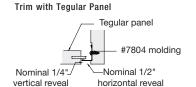
For LEED contribution contact TechLine LOCATION DEPENDENT

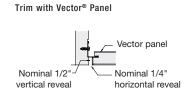
#### **INSTALLATION ACCESSORIES**

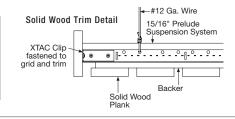
Item Number	Description	Dimensions W x L x H (Inches)	Color	Pcs/Ctn
7805BL**	10' Angle Molding	1-1/2 x 120 x 1-1/2"	Tech Black	30
7823BL**	10' Shadow Molding	2 x 120 x 1-1/4 x 3/4"	Tech Black	10
7804BL	Angle Molding (recom- mended with wood trims)	7/8 x 144 x 9/16"	Black	2
FXTBC	T-Bar Connector Clip	_	-	10
FXVTBC	Vector® T-Bar Connector Clip	_	_	10
FXSPLICE	Splice Plate with Setscrews	_	_	10
FX4SPLICE	Splice Plate with Setscrews	-	_	10
6459BL	Rigid Attachment Clip	5-1/2" x 1-3/4"	Black	25
6091	Safety Cable	_	_	50

Item Number	Description	Dimensions (Inches)	Color	Pieces/Carton
7891	12-Gauge Hanger Wire	144" Length	-	-
92715A620	Self-tapping Screw	#2 x 3/4" Length	Black	25
SH12	Support Hanger	144" x 24"	N/A	12
UHDC	Universal Hold-Down Clip	_	_	100
FZUHDC	FastShip Universal Hold-Down Clip	-	-	50
CHDC	Clear Hold-Down Clip	_	_	50
414	Retention Clip	_	_	100
FZ414	FastShip Retention Clip	_	_	50
442	Vector Hold-Down Clip	144" x 24"	N/A	12

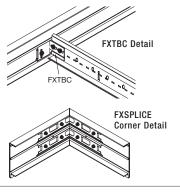
#### WOODWORKS™ TRIM (WOOD SUBSTRATE) INSTALLATION

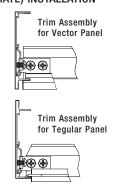


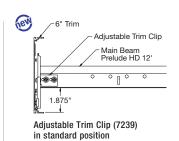


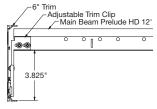


#### WOODWORKS TRIM (ALUMINUM SUBSTRATE) INSTALLATION









Adjustable Trim Clip (7239) in inverted position

#### **INFILL PANELS**

Item Number	Description	Dimensions (Inches)	NRC	CAC	Colors	Pieces/Carton
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	0.75	N/A	Beige Matte	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	0.75	N/A	Black Matte	12
8200100	Fiberglass Infill Panel	24 x 24 x 1"	0.75	N/A	Black Gloss	12
1713/1713BL	School Zone® Fine Fissured™ Square Lay-in Panel	24" x 24"	0.70	35	White or Black	12
2820/2820BK	Calla® Square Lay-in Panel	24" x 24"	0.85	35	White or Black	10
1714/1714BL	School Zone Fine Fissured Square Lay-in Panel	24" x 48"	0.70	40	White or Black	8
6657	BioAcoustic Infill Panel	11 x 48 x 5/8"	0.75	N/A	Black Matte	12

#### **INFILL PANEL OPTIONS**









- 1. BioAcoustic Infill Panel Black
- 2. BioAcoustic Infill Panel
- 3. Fine Fissured™ Square Lay-in panel
- 4. 1" Fiberglass Infill panel (in polybag)

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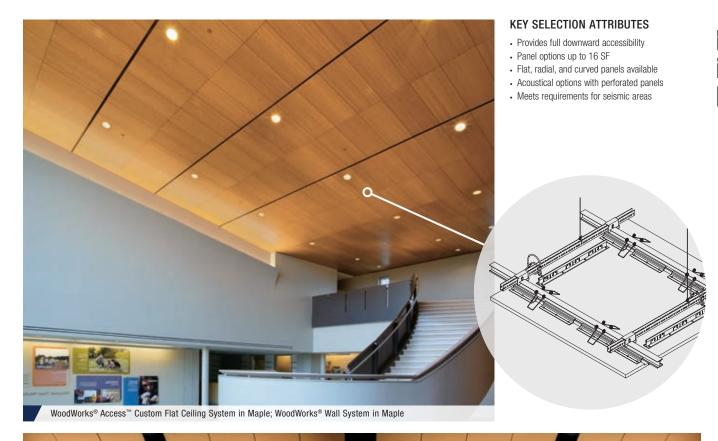
## **CUSTOM CEILING SYSTEMS**

W00DW0RKS® Access™

Flat and Curved Ceiling Systems

## you inspire™ solutions center

helping to bring your one-of-a-kind ideas to life





# CUSTOM CEILING SYSTEMS WOODWORKS® Radial

Flat and Curved Ceiling Systems



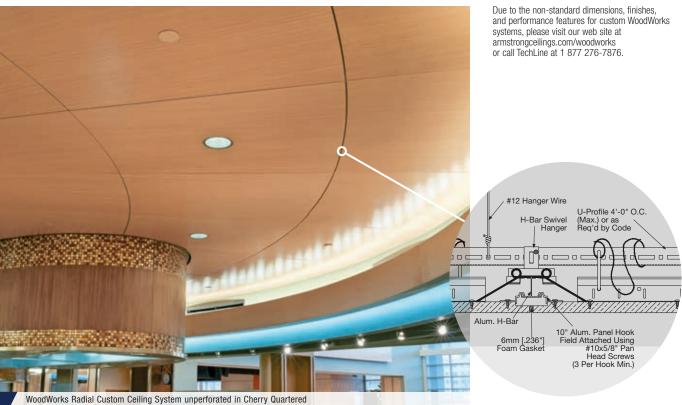
helping to bring your one-of-a-kind ideas to life





#### **KEY SELECTION ATTRIBUTES**

- Variety of trapezoidal sizes, up to 96" length, and up to 48" width
- Perforation options provide NRC 0.40 0.65 based on pattern and infill selected (see pages 169-170; 200)
- Engineered and tested for applications in seismic zones





helping to bring your one-of-a-kind ideas to life





## **CUSTOM CEILING SYSTEMS** WOODWORKS® Torsion Spring Ceilings



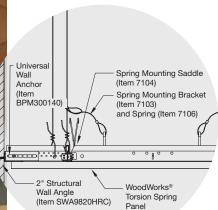
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#### **KEY SELECTION ATTRIBUTES**

- · Monolithic visual in rectangular and radial
- · Large-size panel options up to 16SF
- Available in standard and custom WoodWorks® visuals and a variety of perforations for aesthetic and acoustical needs
- · All system components available through a single source
- · Accessible system, seismic tested and approved



WoodWorks® Torsion Spring in custom finish



Lay-in smooth texture





See more photos at: armstrongceilings.com/photogallery SEARCH: infusions

Translucent ceiling panels are available in multiple sizes, colors, and patterns.

#### **KEY SELECTION ATTRIBUTES**

- Dimensions Splash, Large, and Small Beads create a 3D look with a unique honeycomb core
- Coordinate with Armstrong® Infusions™
  Walls and Partitions, Infusions® Blades™
  vertical elements, Infusions Shapes and
  Canopies, SoundScapes® Shapes panels
  and Blades™ vertical elements, Create!™
  ceiling panels, or other interior finishes
- 18" x 18" Infusions Lay-in infill panels now available for Metaphors® Coffers; for details, see pages 281-282
- Lay-in panels install quickly and easily in standard 15/16" Prelude® XL® or 9/16" Suprafine® XL® suspension system
- Infusions ceiling systems offer the industry's highest fire performance; panels meet both the Class A and IBC drop-out requirements for fire performance (drop-out tested to withstand 200° temperatures for 30 minutes)
- Can be used in Formations<sup>™</sup> Accent Clouds
- 48" x 72" Polycarbonate and 48" x 96" PETG sheets available for use on other areas of a project like desk or bar fronts, dividers or wall art that must coordinate with Armstrong® Infusions® products

#### **DETAIL**





- 1. Infusions Lay-in
- 2. Infusions Lay-in with 15/16" Prelude® suspension system

For: Infusions® Blades™ see page 55 Infusions® Shapes see page 84 Infusions® Canopies see page 83 Infusions® Partitions see page 459 Infusions™ Walls see page 460



Lay-in smooth texture

#### COLOR SELECTION — SOLIDS Due to printing limitations, shade may vary from actual product.





















Cultured Pearl

Inspiration Ice

Calm Water

Loyalty Latte (TLL)

Caribbean Renewal (TAR)

Sage Happiness Budding Creativity (TSH) (TBD)

Tranquility Teal (TTT)

Peace Blue (TPB)

Sheer Iris (TSI)













Blueberry Bliss (TBB)

SaffronEnergy

Sedona Spirit

Red Fire (TRF)



SoundScapes® Coordinating Colors













Refined Black (TRB)



Refined Lagoon (TRL)









Lay-in smooth texture

#### COLOR SELECTION — PATTERNS Due to printing limitations, shade may vary from actual product.















Linens





Blue Linen

Crystallines





(THC)

Honey Canvas

Spun Copper (TSC)

Crushed Copper (TCC)

Linen Gold (TLG)

(TNL)\*†

(TBL)\*†

Crystalline Silverado (TSV)

Focus (TCR)

Sky (TSY)

Tones-on-tones



(TWC)







Arbors



(TCA)







(TRA)

 $\textbf{COLOR SELECTION-DIMENSIONS PATTERNS}^{\dagger} \quad \text{Due to printing limitations, shade may vary from actual product.}$ 



(FZTRK)







Splash Lagoon

(FZTRL)





Splash Tangerine

(FZTRT)







(FZTRR)





Beads Large Plum (FLTRP)

(FZTRP)









Kiwi (FSTRK)

Beads Large Kiwi (FLTRK)





**Beads Small** 

Reef (FSTRR)



**Beads Small** 

Lagoon (FSTRL)

Beads Large Lagoon (FLTRL)





**Beads Small** 

Plum (FSTRP)



**Beads Small** Tangerine (FSTRT)

NOTES: Dimensions patterns are only available as 12" x 48" and 24" x 24" lay-in ceiling panels.

- Direction of linear patterns may change between panel sizes.
- Color may vary panel-to-panel † Not available in sheets





Lay-in smooth texture

#### PANEL SELECTION

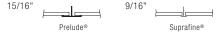
LOCATION DEPENDENT

**PERFORMANCE** 

PANEL SELECTION		PENFUNIVIANUE	
Item No. ◀	Dimensions (Inches)	Fire Rating	Warranty
INFUSIONS® Lay-in Panels			No. of Years
5911	12 x 48 x 1/8"	Class A	1-Yr
5922	24 x 24 x 1/8"	Class A	1-Yr
5912	24 x 48 x 1/4"	Class A	1-Yr
5913	24 x 72 x 1/4"	Class A	1-Yr
	d Inspiration Ice are available in 1/4" thickness or y-in infill panels for Metaphors® Coffers, see page		
INFUSIONS Lay-in Panels - Di	mensions Patterns		
5914	12 x 48 x 0.44"	Class A	1-Yr
5915	24 x 24 x 0.44"	Class A	1-Yr
INFUSIONS Sheets (not used for co	eiling applications)		
5976	48 x 72 x 1/4"	Class A	1-Yr
5978	48 x 96 x 1/4"	Class A	1-Yr

#### ◆ When specifying or ordering, include the appropriate 3- or 5-letter color suffix. (Example: 5911 T C R, 5914 F Z T R K)

### SUSPENSION SYSTEMS



#### PHYSICAL DATA

Polycarbonate (Dimensions panels – PETG and polycarbonate)

### Surface Finish

#### **Fire Performance**

Fire Performance Infusions® panels have been tested according to NFPA 286 and are equivalent to Class A interior finish as defined by the International Building Code.

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

#### **Design Considerations**

Direction of linear patterns may change between panel sizes. Infusions panels are not approved for exterior application. Natural Linen and Blue Linen colors may vary panel to panel.

#### **Installation Considerations**

Do not allow panel edges to get wet.

Panels may be cut for borders, perimeter treatments, penetrations, and cutouts. For penetrations such as sprinklers, use an escutcheon plate to hide any rough cut edges. Any fixtures used in or adjacent to field-cut Infusions panels must be independently supported. There is potential for limited natural deflection of panels. See LA-297176 at armstrongceilings.com/infusions for cutting recommendations.

Panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F.

Follow these guidelines for minimum distance from standard light sources.

LAMP TYPE	WATTAGE	DISTANCE	
Halogen FL XL PAR 30	60	14"	
Incandescent Bulb Quartz Halogen Work Light	120 500	15" 23"	

Additional light transmission information is available at armstrongceilings.com/infusions

Warranty One (1) year limited warranty. Details at armstrongceilings.com

#### Weight; Pieces/Carton

Weight; Pieces/Carton
Items 5911, 5922 - 0.80 lbs/SF
Items 5912, 5913 - 1.63 lbs/SF
Items 5911, 5922 - 6 pcs/ctn
Item 5912 - 3 pcs/ctn
Item 5913 - 2 pcs/ctn
Item 5913 - 2 pcs/ctn
Item 5914, 5915 - 2.625 lbs/SF
Item 5914 - 4 pcs/ctn
Item 5976 - 1.63 lbs/SF - Bulk package per order
Item 5978 - 2.08 lbs/SF - Bulk package per order

TechLine / 1 877 276 7876 armstrongceilings.com/infusions (search: infusions panels) BPCS-5122-617

LEED® is a registered trademark of the U.S. Green Building Council All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America



RANSLUCENT MATERIALS

NRC + CAC =Total Acoustics®





Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

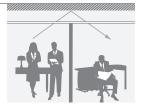
#### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance. NRC is important in any closed space where reverberation time and noise levels are an issue, and in open spaces used for both focus work and collaboration.



#### CAC (Ceiling Attenuation Class)

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC > 35 is considered high performance. CAC is important between closed spaces, and from closed rooms to adjacent spaces, such as corridors and open office spaces.



OPEN OFFICE USED FOR FOCUS AND COLLABORATION		Continuous Ceiling Suspended 60" Below Deck (100% Coverage)		
5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet		Ultima® High NRC Panels	Calla® Panels	Optima® Panels
(8' x 8' work station & RC35)		Total Acoustics NRC CAC	Total Acoustics NRC	
NRC	0.00	0.80	0.85	0.90
CAC	0	35	35	26
Total Acoustics	_	BEST	BEST	-
Reverberation Time	3.4 sec	0.6 sec	0.6 sec	0.5 sec
RT Improvement	ref	82%	82%	86%
SPL Reduction	ref	-5 dB	-6 dB	-6 dB
Privacy Index (60" partition height)	48%	59%	60%	61%

CLOSED OFFICE USED FOR PRIVACY (14' x 14', drywall, carpet) (RC30)	Drywall Ceiling Suspended 60" Below deck (100% Coverage)	Continuous Ceiling S	Suspended 60" Below De Ultima® High NRC Panels		
		Total Acoustics NRC	Total Acoustics NRC	Total Acoustics NRC	
NRC	0.00	0.75	0.80	0.85	
CAC	50	35	35	35	
Total Acoustics	_	BETTER	BEST	BEST	
Reverberation Time (RT)	1.3 sec	0.5 sec	0.4 sec	0.4 sec	
Privacy Index	98%	98%	98%	97%	

For definitions of acoustical terms, see pages 373-374 in this catalog.

#### BE SURE YOU GET THE ACOUSTIC VALUES YOU SPECIFY

#### **UL Classified Acoustics Since 1998**

Armstrong Ceilings carries UL Classification for precise acoustical compliance for three acoustical categories – NRC, CAC, and AC. As the industry leaders, Armstrong and UL teamed up in 1998 to create this new classification to ensure more reliability in reporting and specifying product acoustical performance.





This Icon identifies Armstrong UL Classified Acoustical ceilings – the assurance of reliable performance in every ceiling panel. Be sure any panel you choose has certified performance, or you may not get what you pay for.

This label appears on cartons of Armstrong® UL Classified acoustical ceilings.

Armstrong Ceilings certifies that the material in the carton meets published values, not merely that a similar batch of material met these values at some point in the past.







## MINERAL FIBER AND FIBERGLASS At-a-Glance



Look for this icon indicating new products or new additions to product families. Visit our web site for details.

#### STANDARD MINERAL FIBER CEILINGS

Product information listed pertains to product families, and may not apply to individual items. Consult product details at armstrongceilings.com/commercial before specifying/purchasing.



**ARMATUFF®** 







Pg. 218



CALLA®









Pgs. 221-222



CANYON®







CERAMAGUARD® CERAMAGUARD® Fine Fissured™











Pgs. 225-226



CIRRUS® High-NRC CIRRUS® Second Look®







Pgs. 227-232, 235-236









CIRRUS® Profiles







Pgs. 233-234



CLEAN ROOM™ FL







Pgs. 239-240



CLEAN ROOM™ VL









Pgs. 239-240

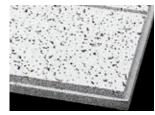








Pgs. 239-240



**CORTEGA®** CORTEGA® Second Look®

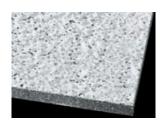








Pgs. 243-244



DESIGNER™



Pg. 248

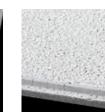


DUNE™ DUNE™ Second Look®







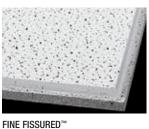


GEORGIAN™





Pgs. 263-264



FINE FISSURED™ Second Look®



Pgs. 255-261

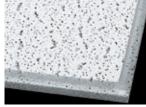


FINE FISSURED™ High-NRC





Pgs. 257-260



FISSURED™ CAC A S

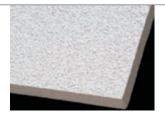
Pg. 262





FastSize™ Ceiling Panels The sizes you need... factory finished... one carton minimums... shipped fast! Available in select Cirrus®, Optima®, Optima® Capz™, and Ultima® panels. See "Item No." column on product pages for size availability. FastSize, other sizes, and colors not UL Classified for acoustics. HRC products not available in FastSize.

#### STANDARD MINERAL FIBER CEILINGS (continued)



GEORGIAN™ High Washability

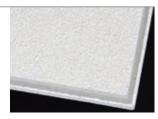


Pgs. 263-264





Pgs. 267-268



MESA™ Second Look® II



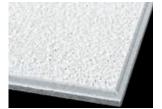
Pgs. 279-280



School Zone® FINE FISSURED™ School Zone® GEORGIAN™



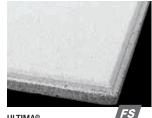
Pgs. 305-306



TUNDRA®



Pgs. 309-310



**ULTIMA®** with AirGuard™ Coating







Pgs. 311-318



**ULTIMA® High NRC** 



Pgs. 311-318



Pgs. 319-320



**ULTIMA®** Health Zone™



Pgs. 321-324

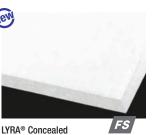
### **FIBERGLASS**



LYRA® with Plant-Based Binder LYRA® High CAC with Plant-Based Binder



Pgs. 271-276



⊗ ∧ 🖷 🏅









Pgs. 287-290

#### **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key product attributes.

#### High Acoustics

Total Acoustics® (()))

Product has both NRC of 0.60 or greater AND CAC of 35 or higher.

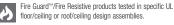


Product has CAC (Ceiling Attenuation Class) of 35



Product has AC (Articulation Class) 170 or greater.

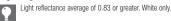
#### Fire Performance



#### Seismic



#### High Light Reflectance





### Humidity/Sag Resistance

#### HumiGuard® Max

Maximum humidity resistance, including outdoor applications.

#### **HumiGuard Plus**

Superior san resistance recommended for areas subject to high humidity, up to standing water and outdoor applications.

#### Standard

Standard performance, adequate where the building is enclosed and the HVAC is continually functioning.

### High Durability

#### Water-Repellent

Product resists water for 15 minutes allowing proper cleaning for infection control.

#### Washability

Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per ASTM D4828.

#### Scrubbability

Withstands up to 150 scrub cycles using a scrubbability tester as per ASTM D2486.

#### Impact Resistance

Excellent resistance to surface impact as per striking

#### Scratch Resistance

Excellent resistance to surface scratching, scuffing or chipping as per Hess Rake Test.

#### Soil Resistance

Excellent resistance to dirt and/or grease; for lasting value and performance as per simulated air diffuser soiling test.

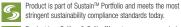
#### Plenum Access

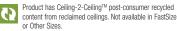
Downward access for panels minimizes panel damage.

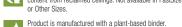
#### Color Availability



### Sustainability









Product is recyclable through the Armstrong Ceilings Recycling Program.

#### Relative Pricing (Mineral Fiber / Fiberglass)

Installed cost guidelines. Varies by geography.

Contact your local representative or distributor for specific pricing in your area. 1 \$= lowest pricing 4 \$s = highest

## MINERAL FIBER AND FIBERGLASS At-a-Glance



helping to bring your one-of-a-kind ideas to life

#### STANDARD FIBERGLASS CEILINGS



OPTIMA® with Plant-Based Binder







Pgs. 283-290



OPTIMA® Vector® OPTIMA Vector with Plant-Based Binder









Pgs. 291-292

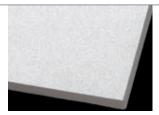


OPTIMA® Concealed

SSSS SSSS



Pgs. 293-294



OPTIMA® Health Zone™









Pgs. 295-296



PAINTED NUBBY™









Pgs. 299-300



PEBBLE™













RANDOM FISSURED™





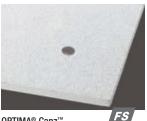




SHASTA®



Pg. 304



SPECTRA™ Capz™













(featured in Direct-Attach)

# FS $\mathsf{OPTIMA}^{\circledast} \; \mathsf{Capz}^{^{\mathsf{TM}}}$

#### **CUSTOM AND NON-STANDARD OPTIONS**



ALTITUDES® Torsion Spring



Pgs. 219-220



FASTSIZE™ Panels



Pg. 253



OPTIMA® Radial









Pgs. 297-298

#### **COFFERS**



METAPHORS®



Pgs. 281-282



## MINERAL FIBER CEILINGS - DESIGN OPTIONS At-a-Glance



helping to bring your one-of-a-kind ideas to life

## GEOMETRIC DESIGNS



GRAPHIS® Finetex™ Cubic







Pgs. 265-266



GRAPHIS® Finetex™ NeoCubic™





Pgs. 265-266



GRAPHIS® Finetex™ Wrapped Linear™





Pgs. 265-266



GRAPHIS® Rustex™ **Cubic Beveled** 





Pgs. 265-266



GRAPHIS® Rustex™ Linear Beveled





SSSS SSSS

Pgs. 265-266

## TIN LOOKS



TINCRAFT™ Circles with Faux Coat Finish





CAC SSSS

Pgs. 307-308



TINCRAFT™ Squares™



Pgs. 307-308



TINCRAFT™ Triangles™



CAC SSSS Pgs. 307-308



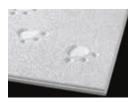


LEDGES®



Pgs. 269-270

## **ETCHED DESIGNS**



CIRRUS® Themes™ Critters™







Pgs. 237-238



CIRRUS® Themes™ Leaves™









Pgs. 237-238



CIRRUS® Themes™ Stars™







Pgs. 237-238



CIRRUS® Themes™ Things That Fly™ CIRRUS® Themes™ Under the Sea™







Pgs. 237-238







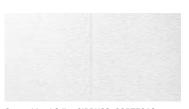
Pgs. 237-238

### SCORED DESIGNS



Second Look® I - CIRRUS®, CORTEGA® DUNE™, and FINE FISSURED™

Pgs. 235-236, 243-244, 251-252, 261



Second Look® II - CIRRUS®, CORTEGA®, DUNE™, FINE FISSURED™, and MESA™

Pgs. 235-236, 243-244, 251-252, 261



Second Look® III - CIRRUS®, FINE FISSURED™ Pgs. 235-236, 261

## MINERAL FIBER CEILINGS - PRINTED OR PAINTED COLORS AND IMAGES At-a-Glance

## CREATE!™ PRINTED IMAGES

## WOOD LOOKS



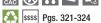
ULTIMA® Health Zone™ Create!™



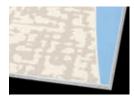








## PRINTED IMAGES



ULTIMA® Create!™, ULTIMA Health Zone™ Create!™ and OPTIMA® Create!™











ssss Pgs. 245-247



## CALLA® COLORATIONS® PAINTED FINISHES

14 Standard Colors (see below) Custom



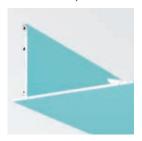


Custom colors also available on Lyra PB products

## COLORATIONS® INTEGRATED COLOR - PANELS, SUSPENSION SYSTEMS, AND TRIM









Look for Colorations standard colors translated on SoundScapes® Canopies, SoundScapes® Shapes, SoundScapes® Blades<sup>™</sup>, and Infusions<sup>®</sup> Accent Canopies.

(TG)









(SH)



(LM)



(PC)



(SK)



(MS)



(SE)



(RE)



(LA)



(PM)



(CN)





(KW)





(BK)

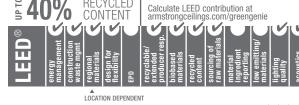


Made-to-order Sherwin-Williams® Colors Available



## **ARMATUFF®**

Square Lay-in coarse texture



\$\$\$\$

A coarse-textured visual strong enough to withstand impact from non-deliberate contact.

### **KEY SELECTION ATTRIBUTES**

- Durable Impact-resistant Scratch-resistant
- Can be installed before building is enclosed
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Corridors
- · Locker rooms
- Auditoriums
- Gvmnasiums
- · Cafetoriums/multipurpose rooms

Armatuff® damage-resistant panels will withstand impact from non-deliberate The Retention Clips allow the panels to deflect slightly, absorbing the force of the impact, while still providing a mechanism to prevent the panels from being dislodged from the suspension system.

### COLOR



White (WH)

## **VISUAL SELECTION**

PERFORMANCE SELECTION Dots represent high level of performance.

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions			ssified stics	II Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold { Mildew	Sag Resist	Certified Low VOC Emissions	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)		NRC -	F CAC	== Tota Acou	Fire Perf	•	<b>®</b>	*	Cert VOC	<b>S</b>		Recy	43	30-Y Wari
ARMATU	JFF®									Bio- Block	Humi- Guard+		— Dura	ıbility —			
15/16" Square Lay-in	1	861	24 x 24 x 3/4" [		0.50	33	-	Class A	0.87	•	•	-	•	•	Std	•	•
	1	860	24 x 48 x 3/4" [		0.50	35	-	Class A	0.87	•	•	-	•	•	Std	•	•
	1	Other Size Panels	W: 6" - 30" / L: 12 3/4" Thick	2" – 50"	N/A	N/A	_	Class A	0.87	•	•	-	•	•	Std	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

Armatuff® panels with Prelude® 15/16" suspension system (Pgs. 391-392)

### SUSPENSION SYSTEMS

15/16"



## **ACCESSORIES**



### 414 - Retention Clip (ordered separately) Attaches to main beams and cross tees behind

lay-in ceilings; helps prevent panel displacement from non-deliberate contact by basketballs and other forces from below the ceiling

## PHYSICAL DATA

Material

Wet-formed high-density mineral fiber

Surface Finish Factory-applied latex paint

Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled)

ASTM E1264 Classification Type III, Form 2, Pattern C E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## Insulation Value

R Factor – 1.7 (BTU units) R Factor – 0.30 (Watts units)

## 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 860 - 1.13 lbs/SF; 64 SF/ctn 861 - 1.23 lbs/SF; 64 SF/ctn

Minimum Order Quantity
1 carton, excludes other size panels

## Metric Items Available

861M, 860M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

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П

## **ALTITUDES®** Torsion Spring

Custom Concealed Ceiling System smooth texture





A ceiling system with a monolithic look from sag-resistant, large custom-size panels.

## **KEY SELECTION ATTRIBUTES**

- · Easily installs with standard Prelude® 15/16" suspension system
- · Monolithic look with sag-resistant, large size panels
- Sizes up to 48" x 96" with or without upturns
- · Shaped/curved panels available\*
- · Excellent acoustical performance -NRC (0.85)
- · Wide variety of color options available
- · Smooth, clean, durable finish
- · Downward accessible with tool
- Energy-saving high light-reflective finish (White)
- · Non-directional visual

### TYPICAL APPLICATIONS

- Transportation
- · Lobby areas
- · Auditoriums

Office

## **COLOR SELECTION**



## **DETAILS**



## CUSTOM FINISHES Due to printing limitations, shade may vary from actual product.



Made-to-order Sherwin-Williams® Choose colors from Sherwin-Williams® Duration® or Harmony® flat interior paint families. When ordering, use Sherwin-Williams 4-digit color code (SW \_ \_ \_ \_)

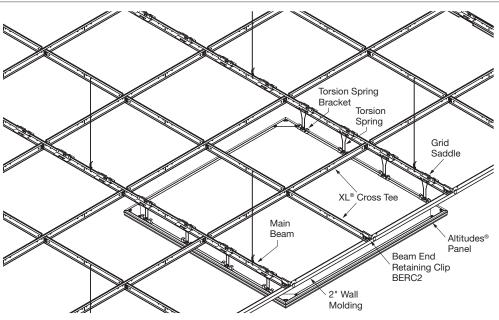


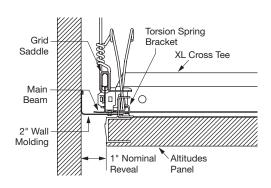
<sup>\*</sup> Two opposite sides of panel must be straight

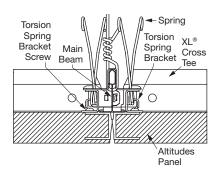
## ALTITUDES® Torsion Spring

Custom Concealed Ceiling System smooth texture

LOCATION DEPENDENT \$\$\$ **INSTALLATION DETAILS** 







## PHYSICAL DATA

Aluminum framed 6-7 pcf fiberglass and 16-20 pcf impact-resistant molded fiberglass with polypropylene based vapor barrier

## Surface Finish

Factory-applied latex paint

## Fire Performance

Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84 (painted, face only).

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

> TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: altitudes) BPCS-4786-517

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## **Recycled Content**

35% recycled content with minimum 9% post-consumer

## **Design Consideration**

Shape panels are available, however, the panel must have two straight sides opposite each other. Other sides may be curved.

## **Installation Considerations**

Clean, white gloves should be worn when installing panels to keep them free from dust or soiling.

LEED® is a registered trademark of the U.S. Green Building Council Sherwin-Williams® , Duration®, and Harmony® are registered trademarks of The Sherwin-Williams Company. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates

© 2016-2017 AWI Licensing LLC Printed in the United States of America Approximately 7" of clearance is needed to accommodate this system.

### **Design Support**

Project management assistance is available by calling TechLine at 1 877 276-7876.

### Seismic Restraint

System has been designed, tested, and approved. See full installation instructions for seismic requirements.

Warranty Details at armstrongceilings.com

Weight; Square Feet/Carton 1.25 lbs/SF; Bulk crated



## **CALLA®**

Square Lay-in, Tegular smooth texture









The smoothest finish mineral fiber ceiling available with Total Acoustics® performance – excellent noise reduction and sound blocking in one product.

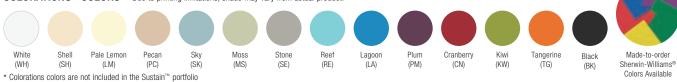
## **KEY SELECTION ATTRIBUTES**

- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Calla® panels are part of the Sustain  $^{\! ^{TM}}$ portfolio and meet the most stringent sustainability compliance standards today
- · Available in 14 standard Colorations® colors with coordinating suspension systems and trim. Made-to-order Sherwin-Williams® colors available
- · Excellent combination of acoustical performance; NRC (0.85), AC (170), and CAC (35) (White only)
- USDA-Certified Biobased Product 59%
- · Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- · Product can be recycled through the Armstrong Ceilings Recycling Program
- · Compatible with the TechZone® Ceiling Systems (White only)
- · 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

- Offices closed spaces for privacy and focus; open spaces for focus, collaboration, and teaming
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Classrooms
- Corridors
- · Lobbies/reception areas
- · Department stores/retail

## $\textbf{COLORATIONS} \textbf{® COLORS*} \quad \text{Due to printing limitations, shade may vary from actual product.}$



## **DETAILS** (Other Suspension Systems compatible. Refer to listing on page 222.)







- 1. Calla® Square Tegular
- 2. Calla Square Lay-in
- 3. Calla Square Tegular with Suprafine 9/16" suspension system



Square Lay-in, Tegular smooth texture

Declare<sup>sм</sup>

High Performance Sustainable Ceiling Systems

Calculate LEED contribution at armstrongceilings.com/greengenie

LOCATION DEPENDENT

### VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance

Livina Buildina

Challenge Compliant

\$\$\$\$

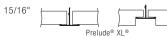
Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings		Dimensions	UL Cla Acou	istics	Total   Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light   Reflect	Anti-Mold & Mildew	Sag   Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
Prome	com/catdwgs	· NO.	(Inches)	NRC	F ČČC	= NRC + CAC	AC ( C	F S	(White	Bio-	Humi-	S S		<b>6</b> ^\	<b>&gt;</b>	<b>○</b>	S S		30- Wa
CALLA	Square La	y-in							Only)	Block	Guard+			— Dura	bility —				
15/16" Square Lay-in	1	2820	24 x 24 x 1"	0.85	35 •	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
	1	2821	24 x 48 x 1"	0.85	35	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
CALLA	Tegular																		
15/16" Square Tegular	8	2822	24 x 24 x 1"	0.85	35 •	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
\)	8	2823	24 x 48 x 1"	0.85	35	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
9/16" Square Tegular	43, 47, 26, 51, 55	2824**	24 x 24 x 1"	0.85	35	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
١)	43, 47, 26, 51, 55	2825	24 x 48 x 1"	0.85	35	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
	43, 47, 26, 51, 55	Other Size Panels	W: 4" - 30" / L: 4" - 30" W: 4" - 24" / L: 4" - 60" 1" thick	N/A	N/A	-	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•	•

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

◆◆ Available in Colorations® standard colors. When specifying or ordering Calla Colorations panels, add the 2-letter suffix to the end of the item number (e.g., 2824LA – Lagoon) Colorations colors are not included in the Sustain™ portfolio

## SUSPENSION SYSTEMS



9/16" Silhouette® XL® 1/4" Reveal









## PHYSICAL DATA

## Material

Wet-formed mineral fiber with acoustically transparent membrane

## Surface Finish

Acoustically transparent membrane with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

## ASTM E1264 Classification Type IV, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: calla) BPCS-4722-517

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

## **Design Considerations**

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated

## **Acoustical Performance**

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension

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system for 9/16" edge detail. NRC test conducted using white panels. Painted panels may experience a slight reduction in NRC due to the color painting process.

### **High Recycled Content**

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value R Factor – 2.9 (BTU units) R Factor – 0.445 (Watts units)

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 2820, 2822, 2824 – 1.0 lbs/SF; 40 SF/ctn 2821, 2823, 2825 – 1.0 lbs/SF; 48 SF/ctn





# Square Lay-in & Tegular smooth texture





Smooth finish, mineral fiber ceiling panel with Total Acoustics® performance.

## **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Canyon<sup>®</sup> panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- · Smooth, White surface
- Good combination of acoustical performance; NRC (0.60) and CAC (35)
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

- Offices/conference rooms
- · Lobbies/reception areas
- Computer rooms
- Auditoriums

## **COLORS**



(WH)

 $\begin{tabular}{ll} \textbf{DETAILS} & (Other Suspension Systems compatible. Refer to listing on page 224.) \end{tabular}$ 





- 1. Canyon® Square Lay-in
- 2. Canyon® Square Lay-in with Prelude® XL® 15/16" suspension system



## Square Lay-in & Tegular smooth texture

Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems



RECYCLED

**PERFORMANCE SELECTION** Dots represent high level of performance. VISUAL SELECTION

\$\$\$\$

Pgs. 407-411 uare Lay-in 8	No.	(Inches)			tics	Total Acoustics <sup>1</sup>	<u>.</u>	rt ect	Anti-Mold & Mildew	Sag Resist	Em	apil	ycle	Recycle Program	rant
	v iedillat			NRC +	CAC	= NRC CAC	Fire Performance	Light Reflect	Bio Block	Humi- Guard+	Certified Low VOC Emissions	Durability	Recycled		30-Yr Warranty
1	1490	24 x 24 x 5/8"		0.60	35	G00D	Class A	0.80	•	•	•	Std	Std	•	•
1	1491	24 x 48 x 5/8"		0.60	35	GOOD	Class A	0.80	•	•	•	Std	Std	•	•
15	1492	24 x 24 x 5/8"		0.60	35	G00D	Class A	0.80	•	•	•	Std	Std	•	•
15	1493	24 x 48 x 5/8"		0.60	35	G00D	Class A	0.80	•	•	•	Std	Std	•	•
44, 48, 29, 52, 56	1494	24 x 24 x 5/8"		0.60	35	G00D	Class A	0.80	•	•	•	Std	Std	•	•
44, 48, 29, 52, 56	1495	24 x 48 x 5/8"		0.60	35	G00D	Class A	0.80	•	•	•	Std	Std	•	•
	15 44, 48, 29, 52, 56 44, 48, 29,	1 1491  15 1492  15 1493  44, 48, 29, 1494  52, 56 1495	1 1491 24 x 48 x 5/8"  15 1492 24 x 24 x 5/8"  15 1493 24 x 48 x 5/8"  44, 48, 29, 1494 24 x 24 x 5/8"  44, 48, 29, 1495 24 x 48 x 5/8"	1 1491 24 x 48 x 5/8"	1       1491       24 x 48 x 5/8"       0.60         15       1492       24 x 24 x 5/8"       0.60         15       1493       24 x 48 x 5/8"       0.60         44, 48, 29, 52, 56       1494       24 x 24 x 5/8"       0.60         44, 48, 29, 1495       24 x 48 x 5/8"       0.60	1       1491       24 x 48 x 5/8"       0.60       35         15       1492       24 x 24 x 5/8"       0.60       35         15       1493       24 x 48 x 5/8"       0.60       35         44, 48, 29, 52, 56       1494       24 x 24 x 5/8"       0.60       35         44, 48, 29, 1495       24 x 48 x 5/8"       0.60       35	1 1491 24 x 48 x 5/8"	1 1491 24 x 48 x 5/8"	1 1491 24 x 48 x 5/8"	1 1491 24 x 48 x 5/8"	1 1491 24 x 48 x 5/8"				

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



Silhouette® XL®

1/4" Reveal



1/8" Reveal







## PHYSICAL DATA

## Material

Mineral fiber with acoustically transparent membrane

## Surface Finish

Acoustically transparent membrane with factory-applied latex paint

## Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

## ASTM E1264 Classification

Type IV, Form 2, Pattern E Fire Class A

## Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## **VOC Emissions**

Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

## **Acoustical Performance**

CAC testing conducted on Silhouette® suspension system

Insulation Value R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

## 30-Year Performance Guarantee & Warranty

When installed with Armstrong Suspension System Details at armstrongceilings.com

## Weight; Square Feet/Carton 0.76 lbs/SF; 64 SF/ctn

Minimum Order Quantity 1 carton

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## CERAMAGUARD®/ CERAMAGUARD® FINE FISSURED™

Square Lay-in medium texture





This is a non-directional ceiling panel for special application areas prone to moisture.

## **KEY SELECTION ATTRIBUTES**

- Inorganic product. Resistant to the growth of mold and mildew
- Durable Washable, Scrubbable, Soil-resistant
- · Resistance to chemical fumes
- Non-directional visual reduces scrap and installation time
- Superior resistance to sagging in high humidity conditions including standing water and outdoor applications
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

- · Laboratories
- · Locker rooms/indoor pools
- · Hydrotherapy/shower areas
- Food preparation areas (unperforated only)
- · Exterior soffits/canopies
- · Indoor parking garages
- Marine use (See note under "Application Considerations")

## COLOR



## **DETAILS**





- 1. Ceramaguard® Square Lay-in
- 2. Ceramaguard with Prelude® Plus XL® 15/16" suspension system

## CERAMAGUARD®/ CERAMAGUARD® FINE FISSURED™

Square Lay-in medium texture

VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance.

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Cla Acou	ssified stics	= Lotal	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Scrub	Soil	Recycled Content	Recycle Program	30-Yr Warranty
CERAMAG	GUARD® – Unper	rforated*							Bio- Block	Humi-≱ Guard≥			urabilit	y —			
15/16" Square Lay-	1 in Guard® Fine Fis	605*	24 x 48 x 5/8"	N/A	40	_	Fire Guard™	0.88	•	•	•	•	•	•	Std	-	•
15/16" Square Lay-	1	607	24 x 24 x 5/8"	0.55	38	_	Fire Guard	0.82	•	•	•	•	•	•	Std	-	•
	1	608	24 x 48 x 5/8"	0.55	40		Fire Guard	0.82	•	•	•	•	•	•	Std	_	•

### <sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. \* Plain pattern (unperforated) is not appropriate where aesthetics or visual consistency is important

## SUSPENSION SYSTEMS

15/16"



Prelude®, Prelude® Plus XL® Aluminum, Prelude® XL® Fire Guard™, Prelude® Plus XL® Fire Guard™, Prelude Plus XL Stainless Steel, Prelude XL for Exterior Applications

## PHYSICAL DATA

Wet-formed ceramic and mineral fiber composite

## Surface Finish

Scrubbable factory-applied plastic paint finish

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).
Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification
Type XX (high density ceramic-like composition with scrubbable finish).
Pattern C E (items 607, 608);
Pattern G (item 605) Fire Class A

Humidity/Sag Resistance HumiGuard® Max ceiling panels are recommended for areas with maximum humidity, including outdoor applications.

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title
24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

## Insulation Value

R Factor — 1.4 (BTU units) R Factor — 0.25 (Watts units)

## **Application Considerations**

For outdoor soffits and canopies, wind uplift should be considered. Ceramaguarde is non-combustible per ASTM E136 and ISO 1182. See USCG Approval 164.109/52/0 for marine applications in all waters.

## **30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System Details at armstrongceilings.com

**Weight; Square Feet/Carton** 605, 608 – 1.52 lbs/SF; 48 SF/ctn 607 – 1.48 lbs/SF; 48 SF/ctn

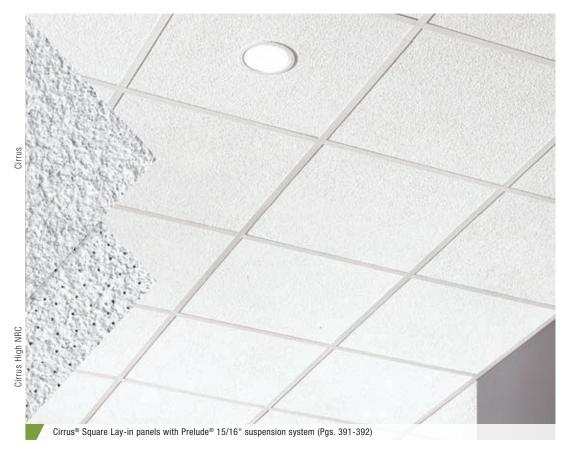
Minimum Order Quantity 1 carton

Metric Items Available 605M, 607M, and 608M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details

# CIRRUS® High NRC

Square Lay-in medium texture







This medium-textured ceiling panel offers Total Acoustics® performance, excellent sound absorption, and blocking in one product.

## **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Cirrus® panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- · Refined visual
- Excellent combination of acoustical performance NRC (up to 0.75) and CAC (35)
- High NRC items feature Articulation Class (170), helpful to control sound over wall partitions
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: Items 574HRC and 533HRC.
   71% Pre-consumer;
   15% Post-consumer
- USDA Certified Biobased Product 94%

## TYPICAL APPLICATIONS

- Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare Assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Lobbies
- · Public spaces/areas
- · Department stores/retail

## COLOR



(WH)

## **DETAILS**





- 1. Cirrus® Square Lay-in
- 2. Cirrus Square Lay-in with  $\mbox{Prelude}^{\circledast}$  15/16" suspension system

Square Lay-in medium texture



Declare<sup>sм</sup> Livina Buildina Challenge Compliant



LOCATION DEPENDENT

### VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Cla Acou	stics	II Total	Articulatio	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
CIRRUS®	High NRC									Bio- Block	Humi- Guard+					
15/16" Square Lay-in	1	563	24 x 24 x 7/8"	0.75	35	BETTER (III)	170	Class A	0.85	•	•	•	Std	•	•	•
(	1	565	24 x 48 x 7/8"	0.75	35	BETTER (III)	170	Class A	0.85	•	Std	•	Std	•	•	10-Yr
	1	Other Size Panels	W: 4" - 24" / L: 4" - 48" 7/8" thick	N/A	N/A	_	_	Class A	0.85	•	Std	•	Std	•	•	10-Yr
CIRRUS®	Square Lay-in															
15/16" Square Lay-in	1	574 574HRC	24 x 24 x 3/4"	0.70	35 •	BETTER (III)	-	Class A	0.86	•	•	•	Std	•	•	•
(	1	533 533HRC	24 x 48 x 3/4" 24 x 48 x 3/4"	0.70	35	BETTER (III)	_	Class A	0.86	•	Std	•	Std	•	•	10-Yr
	1 FS	FastSize™ Panels	W: 4" - 24" / L: 4" - 48" 3/4" Thick	N/A	N/A	-	_	Class A	0.86	•	Std	•	Std	•	•	10-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) HRC items not available in FastSize™ or other sizes.

### SUSPENSION SYSTEMS

15/16"



## PHYSICAL DATA

## Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification Type III, Form 1, Pattern E I Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes items 533, 533HRC, 565, and large sizes.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title
24, ANSI/ASHRAE/IJSGBC/IES Standard 189; ANSI/GBI
Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude XL suspension system.

## Primary (Embodied) Energy See all LCA information on our EPDs.

### **High Recycled Content**

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

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### Insulation Value

R Factor – 1.9 (BTU units) R Factor – 0.33 (Watts units)

## 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 533, 565 – 1.21 lbs/SF; 48 SF/ctn 563 – 1.33 lbs/SF; 40 SF/ctn 574 – 1.10 lbs/SF; 48 SF/ctn

## Minimum Order Quantity

## Metric Items Available

574M, 533M, 563M, 565M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: cirrus) BPCS-3011-517



# CIRRUS® High NRC

Tegular medium texture









Cirrus panels offer a medium-textured ceiling panel with excellent noise reduction and sound blocking for Total Acoustics® performance in one product.

## **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Cirrus® panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today.
- · Refined visual
- Excellent combination of acoustical performance: NRC (up to 0.75) and CAC (35)
- High NRC items feature Articulation Class (170) helpful to control sound over wall partitions
- Ceiling-2-Ceiling™ post-consumer recycled content options. Items 589HRC, 539HRC, 584HRC, 535HRC. 71% pre-consumer; 15% post-consumer
- USDA-Certified Biobased Product 94%

## TYPICAL APPLICATIONS

- Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Conference rooms
- Lobbies
- · Libraries/media centers
- Computer rooms

**COLORS** Due to printing limitations, shade may vary from actual product.











Items 584 and 589 are available in colors. All other items are available in White only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix. Colors other than White are not part of the Sustain™ portfolio.

**DETAILS** (Other Suspension Systems compatible. Refer to listing on pages 214, 216.)









- 1. Cirrus® Angled Tegular
- 2. Cirrus Beveled Tegular
- 3. Cirrus Angled Tegular with Prelude® 15/16" suspension system
- 4. Cirrus Beveled Tegular with Suprafine 9/16" suspension system



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## **CIRRUS®** CIRRUS® High NRC

Tegular medium texture

VISUAL SELECTION

Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems

RECYCLED CONTENT

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL CI Aco	assified oustics	II Potal Potal Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	& Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
CIRRUS	B High NRC									Bio- Block	Humi- Guard+					
15/16" Angled Tegular	13	556	24 x 24 x 7/8"	0.75	35 •	BETTER (i))	170	Class A	0.85	•	•	•	Std	•	•	•
	13	551	24 x 48 x 7/8"	0.75	35 •	BETTER	170	Class A	0.85	•	Std	•	Std	•	•	10-Yr
	13	Other Size Panels	W: 4" - 24" / L: 4" - 48" 7/8" thick	N/A	N/A	-	N/A	Class A	0.85	•	Std	•	Std	•	•	10-Yr
9/16" Beveled Tegular	29, 44, 48, 52, 56	558	24 x 24 x 7/8"	0.75	35	BETTER	170	Class A	0.85	•	•	•	Std	•	•	•
,	29, 44, 48, 52, 56	568	24 x 48 x 7/8"	0.75	35	BETTER (III)	170	Class A	0.85	•	Std	•	Std	•	•	10-Yr
	29, 44, 48, 52, 56	Other Size Panels	W: 4" - 24" / L: 4" - 48" 7/8" thick	N/A	N/A	-	N/A	Class A	0.85	•	Std	•	Std	•	•	10-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35

## SUSPENSION SYSTEMS

15/16"

















### PHYSICAL DATA

Material

Wet-formed mineral fiher

Surface Finish Factory-applied latex paint

Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled)

**ASTM E1264 Classification** Type III, Form 1, Pattern E I Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions** 

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance** 

CAC testing conducted using Silhouette® suspension

**Primary (Embodied) Energy** See all LCA information on our EPDs.

**High Recycled Content** 

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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Insulation Value R Factor – 1.9 (BTU units) R Factor – 0.33 (Watts units)

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 551 - 1.21 lbs/SF; 48 SF/ctn 556, 558 - 1.50 lbs/SF; 40 SF/ctn 568 - 1.25 lbs/SF; 48 SF/ctn

Minimum Order Quantity

Metric Items Available 551M, 558M, 568M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



## **CIRRUS®** CIRRUS® High NRC

Tegular medium texture



Declare<sup>sм</sup> Living Building Challenge Compliant







V	ISII	ΔI	SFI	FC:	<b>LION</b>

PERFORMANCE SELECTION	Dots represent high level of performance.
-----------------------	---

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Cla Acou	essified ustics	Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
CIRRUS	® Tegular									Bio- Block	Humi- Guard+					
9/16" Beveled Tegular	29, 44, 48, 52, 56	589 <b>++</b> 589HRC 589M	24 x 24 x 3/4" 24 x 24 x 3/4" 600 x 600 x 19mm	0.70	35	BETTER (III)	-	Class A	0.86*	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56	538	24 x 24 x 7/8"	0.70	38	BETTER (III)	-	Class A	0.86	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56	577	24 x 24 x 3/4"	0.35	35	-	-	Fire Guard	0.86	•	•	•	Std	Std	•	•
	29, 44, 48, 52, 56	539 539HRC	24 x 48 x 3/4"	0.70	35 •	BETTER	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr
	29, 44, 48, 52, 56	FastSize™ Panels	W: 4" - 24" / L: 4" - 48" 3/4" thick	N/A	N/A	-	N/A	Class A	0.86	•	Std	•	Std	Std	•	10-Yr
CIRRUS	Tegular															
15/16" Angled Tegular	13	584** 584HRC 584M	24 x 24 x 3/4" 24 x 24 x 3/4" 600 x 600 x 19mm	0.70	35 •	BETTER (III)	N/A	Class A	0.86*	•	•	•	Std	•	•	•
	13	578	24 x 24 x 3/4"	0.35	35	-	N/A	Fire Guard	0.86	•	•	•	Std	Std	•	•
	13	534	24 x 24 x 7/8"	0.70	38	BETTER (III)	N/A	Class A	0.86	•	•	•	Std	•	•	•
	13	535 535HRC	24 x 48 x 3/4" 24 x 48 x 3/4"	0.70	35	BETTER (III)	N/A	Class A	0.86	•	Std	•	Std	•	•	10-Yr
	13 <b>FS</b>	FastSize™ Panels	W: 4" - 24" / L: 4" - 48" 3/4" thick	N/A	N/A	-	N/A	Class A	0.86	•	Std	•	Std	Std	•	10-Yr

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)



Add 2-letter color suffix to item number when specifying or ordering (e.g., 589 <u>C</u> <u>B</u>).
 HRC items not available in FastSize panels or other sizes.



Declare<sup>sм</sup> Livina Buildina Challenge Compliant



RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LOCATION DEPENDENT

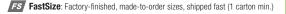
### VISUAL SELECTION

### PERFORMANCE SELECTION Dots represent high level of performance

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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Clas Acous	ssified stics	II Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
CIRRUS®	High CAC									Bio- Block	Humi- Guard+					
15/16" Angled Tegular	13	572	24 x 24 x 7/8"	0.70	40	BETTER (III)	-	Class A	0.86	•	•	•	Std	•	•	•
	13	581	24 x 48 x 7/8"	0.70	40	BETTER (III)	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr
9/16" Beveled Tegular	29, 44, 48, 52, 56	576	24 x 24 x 7/8"	0.70	40	BETTER (III)	-	Class A	0.86	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56	583	24 x 48 x 7/8"	0.70	40	BETTER (III)	_	Class A	0.86	•	Std	•	Std	•	•	10-Yr
	13 <b>FS</b>	FastSize™ Panels	W: 4" - 24" / L: 4" - 48" 3/4" thick	N/A	N/A	_	N/A	Class A	0.86	•	Std	•	Std	Std	•	10-Yr

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) HRC items not available in FastSize panels or other sizes.



## SUSPENSION SYSTEMS

15/16"



9/16"





1/8" Reveal







## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

## Fire Performance

ASTM E84 and CAN/ULC \$102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled) Fire Guard\*\*: A fire-resistive ceiling when used in applicable UL assemblies (Class A)

## ASTM E1264 Classification Type III, Form 1, Pattern E I Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes items 535, 539, 581, 583.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

## **Acoustical Performance**

CAC testing conducted using Silhouette® suspension system

## **Primary (Embodied) Energy** See all LCA information on our EPDs.

**High Recycled Content** 

## Total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings

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### Insulation Value

R Factor – 1.9 (BTU units) R Factor – 0.33 (Watts units)

## 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

## Weight; Square Feet/Carton

Weight, Square Februarum 534, 538, 572, 576 – 1.38 lbs/SF; 40 SF/ctn 535, 539, 581, 583 – 1.21 lbs/SF; 48 SF/ctn 577, 578 – 1.25 lbs/SF; 48 SF/ctn 584, 589 – 1.06 lbs/SF; 48 SF/ctn

### Minimum Order Quantity 1 carton

## Metric Items Available

584M, 578M, 534M, 572M, 581M, 535M, 589M, 538M, 577M, 583M, 539M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details



## CIRRUS® Profiles

Chamfered, Beveled & Classic Step™ – Tegular medium texture





These medium-textured ceiling panels feature Total Acoustics® performance with a variety of dimensional edge details.

## **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Cirrus<sup>®</sup> panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- Classic edge details on refined Cirrus texture
- · High quality factory-finished edge detail
- Ideal combination of sound absorption and blocking
- USDA-Certified Biobased Product 94%

## TYPICAL APPLICATIONS

- Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- · Lobbies/reception areas
- · Public spaces/areas

## **COLOR**



White

## **DETAILS** (Other Suspension Systems compatible. Refer to listing on page 234.)









- 1. Cirrus® Chamfered
- 2. Cirrus Classic Step
- 3. Cirrus Beveled Tegular
- 4. Cirrus Classic Step with Suprafine® 9/16" suspension system



Chamfered, Beveled & Classic Step<sup>™</sup> - Tegular medium texture

Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems

Calculate LEED contribution at armstrongceilings.com/greengenie

### VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance

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Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions		UL Cla	L) Issified Istics	Total Acoustics	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)		NRC -	+ CAC	= NRC	Fire		<b>(S)</b>	*	Cert	Dura	Con		30-\ War
CIRRUS	8® Profiles Char	nfered*								Bio- Block	Humi- Guard+					
15/16" Tegular	17	628	24 x 24 x 3/4"		0.65	35 •	GOOD	Class A	0.85	•	•	•	Std	•	•	•
9/16" Tegular	30	557	24 x 24 x 3/4"		0.65	35	GOOD	Class A	0.85	•	•	•	Std	•	•	•
CIRRUS	8® Profiles Beve	eled														
9/16" Tegular	29	590	24 x 24 x 3/4"	Ħ	0.65	35 •	(000D	Class A	0.85	•	Std	•	Std	•	•	10-Yr
CIRRUS	8 Profiles Clas	sic Step™	•													
15/16" Tegular	19	626	24 x 24 x 3/4"	<b>H</b>	0.65	35 •	(00D)	Class A	0.85	•	Std	•	Std	•	•	10-Yr
	18	591	24 x 24 x 3/4"		0.65	35 •	GOOD	Class A	0.85	•	•	•	Std	•	•	•
9/16" Tegular	31	591	24 x 24 x 3/4"		0.65	35	GOOD	Class A	0.85	•	•	•	Std	•	•	•
\\	32	585	24 x 24 x 3/4"	H	0.65	35 •	GOOD	Class A	0.85	•	Std	•	Std	•	•	10-Yr

Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
 GOOD (NRC 0.60-0.65; CAC 35+)
 BETTER (NRC 0.70-0.75; CAC 35+)
 EEST (NRC 0.80+; CAC 35+)
 Ceiling design copyrighted by AWI Licensing Co.

## SUSPENSION SYSTEMS







Classic Step











## PHYSICAL DATA

Wet-formed mineral fiber

## Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

## **ASTM E1264 Classification**

557, 591, 628 – Type III, Form 1, Pattern E I 585, 590, 626 – Type III, Form 1, Pattern E I K Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes items 585, 590, 626

> TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: cirrus) BPCS-4016-517

## Mold/Mildew Protection

Chamfered

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Primary (Embodied) Energy See all LCA information on our EPDs.

## **High Recycled Content**

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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## Insulation Value

R Factor – 1.9 (BTU units) R Factor – 0.33 (Watts units)

## 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 590, 591 – 1.06 lbs/SF; 48 SF/ctn 557, 585, 626, 628 – 1.17 lbs/SF; 48 SF/ctn

### Minimum Order Quantity 1 carton

## Metric Items Available

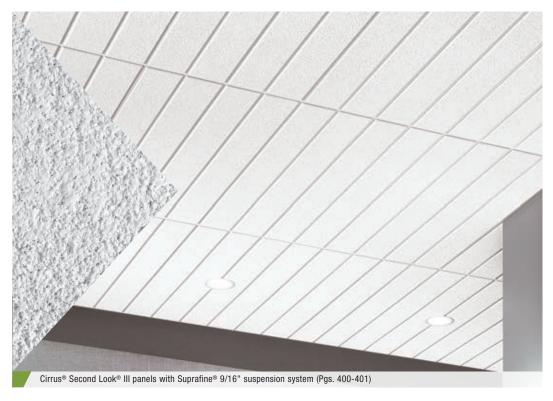
628M, 557M, 590M, 591M, 626M, and 585M -Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



## CIRRUS® Second Look®

Scored Tegular medium texture







These medium-textured panels, with scored plank visual, provide the noise reduction and sound blocking of Total Acoustics® performance.

## **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Cirrus® panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards
- · Classic Cirrus texture
- Excellent score line painting for a clean visual
- USDA Certified Biobased Product – 94%

## TYPICAL APPLICATIONS

- Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Lobbies/reception areas
- · Department stores/retail

## **FACE VIEW**



Cirrus Second Look I panel – Scoring creates nominal 12" x 12" squares



Cirrus Second Look II panel – Scoring creates nominal 24" x 24" squares



Cirrus Second Look III panel – Scoring creates nominal 6" x 48" linear planks

### **COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 236)





- 1. Cirrus® Second Look III
- 2. Cirrus® Second Look III with Suprafine® 9/16" suspension system



## CIRRUS® Second Look®

Scored Tegular medium texture

Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems



## VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Clas Acou	ssified stics	III Postal Postal Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
CIRRUS	S® Second Loo	k® I		 1110	<u>۔</u>	CAC		5	Bio- Block					<b>VELO</b>	
15/16" Beveled Tegular	14	512	24 x 48 x 3/4"	0.65	35	GOOD (jj))	Class A	0.85	•	Std	•	Std	•	•	10-Yr
CIRRUS	S Second Look	II													
9/16" Beveled Tegular	28	510	24 x 48 x 3/4"	0.65	35	GOOD	Class A	0.85	•	Std	•	Std	•	•	10-Yr
15/16" Beveled Tegular	14	513	24 x 48 x 3/4"	0.65	35 •	G00D	Class A	0.85	•	Std	•	Std	•	•	10-Yr
CIRRUS	S Second Look	Ш													
9/16" Beveled Tegular	28	511	24 x 48 x 3/4"	0.65	35	GOOD	Class A	0.85	•	Std	•	Std	•	•	10-Yr
15/16" Beveled Tegular	14	514	24 x 48 x 3/4"	0.65	35	G00D	Class A	0.85	•	Std	•	Std	•	•	10-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS

15/16" Prelude® 9/16" Suprafine®

### PHYSICAL DATA

## Material

Wet-formed mineral fiber

## Surface Finish

Factory-applied latex paint

## Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled)

## ASTM E1264 Classification Type III, Form 1, Pattern E I K Fire Class A

Humidity/Sag Resistance Standard performance celling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/ USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

## **Primary (Embodied) Energy** See all LCA information on our EPDs.

**High Recycled Content** 

right necycled content. Total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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Insulation Value R Factor – 1.9 (BTU units) R Factor – 0.33 (Watts units)

### Design Consideration

Do not mix Cirrus® Second Look® with standard Cirrus items in the same room.

**Warranty** Details at armstrongceilings.com

Weight; Square Feet/Carton 1.09 lbs/SF; 48 SF/ctn

Minimum Order Quantity 1 carton

## Metric Items Available 512M, 510M, 513M, 511M, 514M -

Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details



## CIRRUS® Themes™

Critters<sup>™</sup>, Leaves<sup>™</sup>, Stars<sup>™</sup>, Things That Fly<sup>™</sup> & Under the Sea<sup>™</sup> – Tegular medium texture



Cirrus® Themes™ ceiling panels have a playful design and bring fun to your project.

## **KEY SELECTION ATTRIBUTES**

- A variety of lighthearted panel designs on classic Cirrus texture; can be spot-painted
- Coordinating plain panels available
- USDA-Certified Biobased Product 94%

## TYPICAL APPLICATIONS

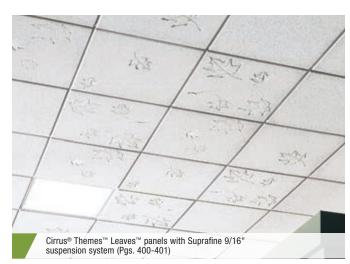
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Pediatric areas
- · Lobbies/reception areas
- · Specialty shops/stores
- · Playful theme interiors

### **COLOR**



(WH)







Cirrus® Themes™ Things That Fly™ panels with Suprafine 9/16" suspension system (Pgs. 400-401)

VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance.

\$\$\$\$

Edge	Dimensions			(II) UL Classified Acoustics		Total Acoustics¹	ormance	Light Reflect	Anti-Molc & Mildew	st	ified Low Emission	Durability	Recycled Content	Recycled Program	Warranty			
Profile	Pgs. 381-385 armstrongceilings. com/catdwgs	No.	(Inches)		NRC	+	CAC	=	Total Acou	Fire Perf			Sag Resist	Certific VOC Er	Dura	Recy	43	Warı
CIRRUS® Themes™												Bio- Block						
15/16" Angled Tegular	13	See	24 x 24 x 3/4"		N/A		N/A		_	Class	0.86	•	Std	•	Std	•	•	10-Yr
		Below								А	•							
9/16" Beveled Tegular	29, 44, 48,	See	24 x 24 x 3/4"		N/A		N/A		_	Class	0.86	•	Std	•	Std	•	•	10-Yr
	52, 56	Below								А	•							
1 Total Acoustics® ceiling pa	anels have an ideal of	combination (	of noise reduction and	d sound-bloc	king performa	ance	in one	produ	ct.									

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S502/S552

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\$510/\$560

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S503/S553

S512/S562

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Cirrus Themes

Leaves











Cirrus Themes Things That Fly



S703/S753

\$706/\$756

S







\$707/\$757





\$708/\$758

Cirrus Themes Under the Sea



\$802/\$852

**:** 

:000

\$804/\$854

Ø:

S801/S851

S803/S853

M

\$805/\$855



Plain

Panel



Cirrus Ther	nes Critters	Cirrus Ther	nes Leaves	Cirrus The	mes Stars	Cirrus Themes	Things That Fly	Cirrus Themes Under The Sea			
15/16" Angled Tegular	9/16" Beveled Tegular	15/16" Angled Tegular	9/16" Beveled Tegular								
☐ S550	☐ S500	☐ S650	☐ S600	☐ S450	☐ S400	☐ S750	☐ S700	☐ S850	☐ S800		
☐ S551	☐ S501	☐ S651	☐ S601	☐ S451	☐ S401	☐ S751	☐ S701	☐ S851	☐ S801		
☐ S552	☐ S502	☐ S652	☐ S602	☐ S460	☐ S410	☐ S752	☐ S702	☐ S852	☐ S802		
☐ S553	☐ S503	☐ S653	☐ S603	☐ S461	☐ S411	☐ S753	☐ S703	☐ S853	☐ S803		
☐ S560	☐ S510	☐ S654	☐ S604	☐ S462	☐ S412	☐ S754	☐ S704	☐ S854	☐ S804		
☐ S562	☐ S512	☐ S655	☐ S605	☐ S463	☐ S413	☐ S755	☐ S705	☐ S855	☐ S805		
☐ S295	☐ S299	☐ S295	☐ S299	☐ S464	☐ S414	☐ S756	☐ S706	☐ S295	☐ S299		
				☐ S470	☐ S420	☐ S757	☐ S707				
				☐ S471	☐ S421	☐ S758	☐ S708				
				☐ S295	☐ S299	☐ S295	☐ S299				

## SUSPENSION SYSTEMS















## PHYSICAL DATA

## Material

Wet-formed mineral fiber Surface Finish

## Factory-applied latex paint Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

ASTM E1264 Classification Type III, Form 1, Pattern E I K Z (scored multi-patterned finish) S299, S295 – Type III, Form 1, Pattern E I Fire Class A

Humidity/Sag Resistance Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

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### High Recycled Content

Total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

## Insulation Value

R Factor – 1.9 (BTU units) R Factor – 0.33 (Watts units)

Warranty Details at armstrongceilings.com

## Weight: Square Feet/Carton

All design panels — 1.38 lbs/SF; 8 SF/ctn S295 — 1.09 lbs/SF; 48 SF/ctn S299 — 1.17 lbs/SF; 48 SF/ctn

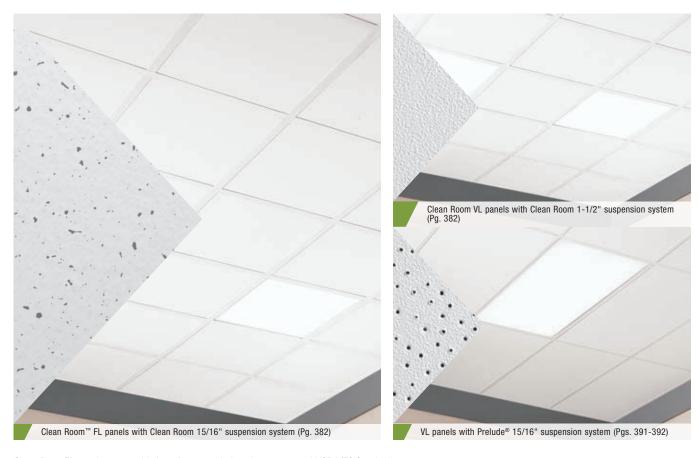
Minimum Order Quantity



## CLEAN ROOM™ FL/ CLEAN ROOM™ VL & VL

Square Lay-in & Tegular smooth texture





Clean Room™ panels meet guidelines for controlled environments and USDA/FSIS guidelines.

## **KEY SELECTION ATTRIBUTES**

- Clean Rooms up to ISO Class 5 (Class 100) (excludes items 869, 871)
- Excellent sound blocking CAC (35-40)
- Durable Washable, Scrubbable, Water-repellant, Impact-resistant, Scratch-resistant, Soil-resistant
- · Non-directional visual reduces scrap and installation time
- · 30-Year Limited System Warranty against visible sag, mold, and mildew

## **COLORS**







White with Gray Spatter (Clean Room FL)











## TYPICAL APPLICATIONS

## Clean Room FL, Clean Room VL

- · Clean Rooms
- · Kitchens/food preparation areas
- · Laboratories
- · Healthcare
- Patient rooms
- Treatment rooms
- Semi-restricted surgical areas
- Emergency rooms

## VL (Perforated)

- · Lavatories/restrooms
- · Utility Rooms

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 240.)







- 1. Clean Room FL
- 2. Clean Room VL
- 4. Clean Room FL with 15/16" suspension system
- 5. Clean Room VL with 1-1/2" suspension system



## CLEAN ROOM™ FL/ CLEAN ROOM™ VL & VL

Square Lay-in & Tegular smooth texture

VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Susp. Dwg.	ltem	Dimensions	UL C			stics1	Fire Performance	ಕ	Anti-Mold & Mildew	sag Resist	ied Low Emissions	Water Repel	Vash	scrub	Impact	Scratch	Soil	cled	sle am	
rmstrongceilings. com/catdwgs	No.	(Inches)	NRC	+ 0	AC =	Total Acous	6)	Light Refle		<b>*</b>	Certif VOC E				<b>8</b> /^\	Į,	<u></u>	Recy	Recy Progr	30-Yr
m™ FL Field	Panel								RH90	Humi- Guard+				— Dura	bility —					
1, 6, 7	1715	24 x 24 x 3/4"	0.55			_	Class A	0.79	•	•	•	•	•	•	•	•	•	•	-	•
1, 6, 7	1716	24 x 48 x 3/4"	0.55		35	-	Class A	0.79	•	•	•	•	•	•	•	•	•	•	_	•
m™ FL Borde	er Pane	I																		
1, 6, 7	1720	24 x 24 x 5/8"	N/A			-	Class A	0.79	•	•	-	•	•	•	•	•	•	Std	-	•
1, 6, 7	1721	24 x 48 x 5/8"	N/A			-	Class A	0.79	•	•	-	•	•	•	•	•	•	Std	_	•
1, 6, 7	Size	5/8" Thick	N/A	N	I/A	_	Class A	0.79	•	•	_	•	•	•	•	•	•	Std	_	•
m™ VL Unpe	rforate	d																		
1, 6, 7	868	24 x 24 x 5/8"	N/A		40 •	_	Fire Guard™	0.80	•	•	-	•	•	•	•	•	•	Std	-	•
1, 6, 7	870	24 x 48 x 5/8"	N/A		40 •	-	Fire Guard	0.80	•	•	-	•	•	•	•	•	•	Std	-	•
ated (Not for	Clean I	Rooms)																		
I	869	24 x 24 x 5/8"	0.55			-	Fire Guard	0.78	•	•	-	-	•	•	•	•	•	Std	_	•
	871	24 x 48 x 5/8"	0.55			-	Fire Guard	0.78	•	•	-	-	•	•	•	•	•	Std	_	•
	gs. 407-411 mstrongceilings. m™ FL Field , 6, 7 , 6, 7  m™ FL Bord , 6, 7 , 6, 7  m™ FL Unpe , 6, 7	gs. 407-411 mstrongceilings. m™ FL Field Panel , 6, 7 1715 , 6, 7 1716  m™ FL Border Panel , 6, 7 1721 , 6, 7 1721 , 6, 7 3 1721 , 6, 7 868 , 6, 7 870  sted (Not for Clean I 869	gs. 407-411 mstrongcellings. mr™ FL Field Panel , 6, 7  1715 24 x 24 x 3/4"  , 6, 7  1716 24 x 48 x 3/4"  mr™ FL Border Panel , 6, 7  1720 24 x 24 x 5/8"  , 6, 7  1721 24 x 48 x 5/8"  , 6, 7  0ther W: 24" / L: 24" – 48" Size 5/8" Thick Panels  mr™ VL Unperforated , 6, 7  868 24 x 24 x 5/8"  , 6, 7  870 24 x 48 x 5/8"  atted (Not for Clean Rooms)  869 24 x 24 x 5/8"	Mark   Size   Size	Acoustic   NRC +   Section   No.   No.   No.   NRC +   Section   No.   NRC +   Section   NRC +   Se	Saction   Sac	Marcongoeilings	m™ FL Field Panel  , 6, 7	NRC +	NRC +	NRC +	NRC +   S   S   S   S   S   S   S   S   S	NRC +   A	NRC +   S   =	NRC +   AC   =   BC   N   BC   BC   AC   BC   BC   BC   BC   BC	NRC   NRC	NRC   +   AC   =   28   N   28   28   N   28   28   N   28   N   28   N   N   N   N   N   N   N   N   N	NRC	NRC +	NRC +

15/16"



Prelude® Clean Hoonii Prelude® Plus XL® Aluminum (Steel or Aluminum) Prelude® XL® Fire Guard"



Clean Room (Steel or Aluminum) NOTE: Clean Room Class 5 (Class 100) UL Classified for Acoustics on 15/16" suspension system only.

## PHYSICAL DATA

## Material

Wet-formed mineral fiber

**Surface Finish** 1715, 1716, 1720, 1721 — Soil-resistant polyester film 868, 870, 869, 871 — Vinyl-faced membrane

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard": A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification 1715, 1716, 1720, 1721 – Type IV, Form 2, Pattern G H 868, 870, – Type IV, Form 2, Pattern E 869, 871 – Type IV, Form 2, Pattern C E Fire Class A

TechLine / 1 877 276-7876

BPCS-3044-517

armstrongceilings.com/commercial (search: clean room)

Mold & Mildew Protection Clean Room ceiling panels resist the growth of mold and mildew

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

## **VOC Emissions**

(Excludes FL Border and VL Panels) Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

High Recycled Content
Contains greater than 50% total recycled
content. Total recycled content based on product
composition of post-consumer and pre-consumer
(post-industrial) recycled content per FTC guidelines.

Insulation Value R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

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**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

## Weight; Square Feet/Carton

Weight, Square Feet/Carlotte 1715 – 1.02 lbs/SF; 48 SF/ctn 1716 – 1.02 lbs/SF; 64 SF/ctn 1720 – 1.04 lbs/SF; 48 SF/ctn 1721 – 1.17 lbs/SF; 64 SF/ctn 868, 869 – 1.10 lbs/SF; 48 SF/ctn 870, 871 – 1.11 lbs/SF; 64 SF/ctn

**NOTE:** For assistance on proper Clean Room installation, contact TechLine at 1 877 276-7876.

Minimum Order Quantity:
1 carton, excludes other size panels.

Metric Items Available 1715M, 1716M, 1720M, 1721M, 868M, 870M, 869M, 871M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

## COLORATIONS® Colors

Integrated Color Ceiling Systems CALLA® & LYRA® Ceiling Panels, SUPRAFINE® Suspension Systems and AXIOM® Trim



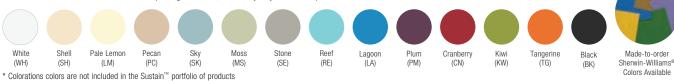


Colorations® colors allow integration of ceiling panels, suspension systems and trim.

### **KEY SELECTION ATTRIBUTES**

- · Colorations Colors Ceiling Panels Product Family:
  - Smooth surface, high performance Calla® and Lyra® ceiling panels (Pgs. 203-204 and 255-260)
  - Suprafine® XL® 9/16" suspension systems (Pgs. 373-374)
  - Axiom® Trim (Pgs. 386-401)
- 13 standard or your choice of Sherwin-Williams® colors
- Monoithic visual
- · SoundScapes® Acoustical Canopies, SoundScapes Shapes Acoustical Clouds and SoundScapes Blades™ also available in Colorations® Colors

## $\textbf{COLORATIONS} \textbf{@ COLORS*} \quad \text{Due to printing limitations, shade may vary from actual product.}$





## COLORATIONS® Colors

Integrated Color Ceiling Systems
CALLA® & LYRA® Ceiling Panels, SUPRAFINE® Suspension Systems and AXIOM® Trim

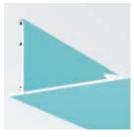
## COLORATIONS® INTEGRATED COLOR - PANELS, SUSPENSION SYSTEMS, AND TRIM



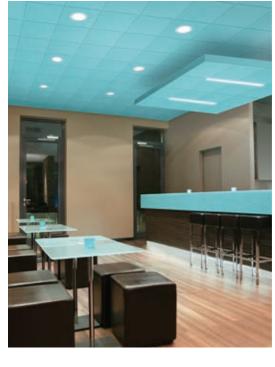




Suprafine® XL® Suspensions Systems



Axiom® Trim



## LOOK FOR COLORATIONS® STANDARD COLORS ON THESE PRODUCTS



SoundScapes® Canopies



SoundScapes® Shapes



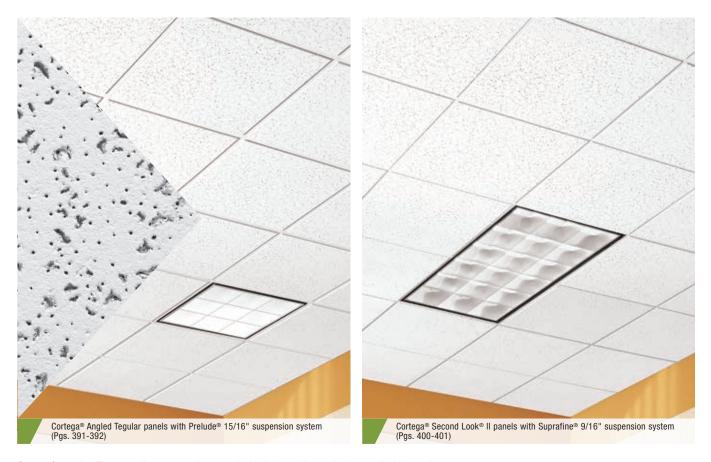
SoundScapes® Blades™



Infusions® Accent Canopies

## CORTEGA®/CORTEGA® Second Look®

Square Lay-in & Tegular medium texture

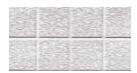


Cortega® panels offers a medium-textured, economical solution with standard acoustical absorption.

## **KEY SELECTION ATTRIBUTES**

- Economical
- · Non-directional visual reduces scrap and installation time (excludes Second Look® items)
- · Geometric Scored Visuals (Second Look items)

## **FACE VIEW**



Cortega Second Look I panels -Scoring creates nominal 12" x 12" squares



Cortega Second Look II panels -Scoring creates nominal 24" x 24" squares

**COLORS** Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.





**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 244.)











- 1. Cortega Square Lay-in
- 2. Cortega Beveled Tegular
- 3. Cortega Second Look

TYPICAL APPLICATIONS

· Storage and supply rooms

· Discount stores

· Utility Rooms

- 4. Cortega Lay-in with Prelude 15/16" suspension system
- 5. Cortega Beveled Tegular with Suprafine 9/16" suspension system



## CORTEGA®/CORTEGA® Second Look®

Square Lay-in & Tegular medium texture

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance.

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1 43% 55% EX RECYCLED CONTENT

LOCATION DEPENDENT

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item	Dimensions		UL Cla	assified ustics	II Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycled Program	Warranty
Profile	com/catdwgs	NO. ▼	(Inches)		NRC	+ cec :	= Tot	め	Lig	Ant % N	Saç	Se	ma_	Se G		Wa
CORTEGA® Square L	_ay-in															
15/16" Square Lay-in	1	770 770M	24 x 24 x 5/8" 600 x 600 x 15mm		0.55	33	-	Class A	0.82	-	Std	•	Std	Std	•	1-Yr
	1	824 824M	24 x 24 x 5/8"		0.55	35 •	_	Fire Guard™	0.82	-	Std	•	Std	Std	•	1-Yr
	1	769* 769M	24 x 48 x 5/8" 600 x 1200 x 15mi	m 🔲	0.55	35	-	Class A	0.82	-	Std	•	Std	Std	•	1-Yr
	1	823 823M	24 x 48 x 5/8"		0.55	35	-	Fire Guard	0.82	-	Std	•	Std	Std	•	1-Yr
	1	747	24 x 48 x 5/8"		0.55	40	-	Class	0.82	-	Std	•	Std	Std	•	1-Yr
	1	773 773M	20 x 60 x 5/8" 500 x 1500 x 15mi	m	0.55	35	_	Class	0.82	_	Std	•	Std	Std	•	1-Yr
	1	772 772M	24 x 60 x 5/8" 600 x 1500 x 15mi		0.55	35	_	Class	0.82	-	Std	•	Std	Std	•	1-Yr
	1		W: 12" - 30" / L: 1 5/8" Thick		N/A	N/A	_	Class	0.82	_	Std	•	Std	Std	•	1-Yr
CORTEGA Tegular		1 011013	5/6 THICK													
15/16" Angled Tegular	12	704 704M	24 x 24 x 5/8" 600 x 600 x 15mm		0.55	33	_	Class A	0.82	_	Std	•	Std	Std	•	1-Yr
	12	816	24 x 24 x 5/8"		0.55	35 •	-	Fire Guard	0.82	-	Std	•	Std	Std	•	1-Yr
	12	703 703M	24 x 48 x 5/8"		0.55	35 •	-	Class A	0.82	-	Std	•	Std	Std	•	1-Yr
9/16" Beveled Tegular	29, 44, 48, 52, 56	2195 2195M	24 x 24 x 5/8"		0.55	35 <b>*</b>	_	Class A	0.82	-	Std	•	Std	Std	•	1-Yr
<u> </u>	29, 44, 48, 52, 56	Other Size Panels	W: 12" - 30" / L: 1 5/8" Thick	8" – 72"	N/A	N/A	-	Class A	0.82	-	Std	•	Std	Std	•	1-Yr
CORTEGA® Second I		0705	0.4 40 0.4411		0.55	0.5		01	0.00		C1-1		Std	Std		1 1/-
15/16" Angled Tegular  CORTEGA Second Lo	11	2765	24 x 48 x 3/4"	<del></del>	0.55	35 •	_	Class A	0.82	_	Std	•	Sta	510	•	1-Yr
15/16" Angled Tegular	11	2758	24 x 48 x 3/4"		0.55	40	_	Fire Guard	0.82	_	Std	•	Std	•	•	1-Yr
<u></u>	11	2767	24 x 48 x 3/4"		0.55	35	_	Class	0.82	_	Std	•	Std	•	•	1-Yr
9/16" Angled Tegular	27	2776	24 x 48 x 3/4"		0.55	30	_	Class	0.82	_	Std	•	Std	•	•	1-Yr
								A								
<sup>1</sup> Total Acoustics® ceiling pa		l combination o	f noise reduction and so	ound-blocking	performance	in one prod	uct. • Ad	d 2-letter	color suff	ix to item	number	when spe	ecifying	or orderir	ng (e.g., 7	69 <u>B</u> <u>L</u> )
SUSPENSION SYS	TEMS * Item	2195 – CAC 31	on 9/16" Silhouette®.													
15/16"			9/16"			$\exists \vdash$					1					
	e®, Prelude® XL® ire Guard™		Silhouette 1/4"	e®	Silhouette®		Suprafin	e®	Interlu	de® XL HI	RC	Sonata	a® XL			
г	iie dudiu		1/4		1/0											

## PHYSICAL DATA

Material

Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification** Type III, Form 2, Pattern C D

Humidity/Sag Resistance Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

**VOC Emissions** 

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol. (Excludes 769BL)

Primary (Embodied) Energy See all LCA information on our EPD's.

High Recycled Content
Contains greater than 50% total recycled content.
Total recycled content based on product composition
of post-consumer and pre-consumer (post-industrial)
recycled content per FTC guidelines.

Insulation Value 2195, 704, 816, 703 – R Factor – 1.6 (BTU units); R Factor – 0.28 (Watts units) 770, 772, 769, 773, 823, 824 – R Factor – 1.5 (BTU units); R Factor – 0.26 (Watts units)

747, 2765, 2758, 2767, 2776 - R Factor - 1.5 (BTU units); R Factor - 0.26 (Watts units) 823 - 1.09 lbs/SF; 48 SF/ctn 747, 824 - 1.09 lbs/SF; 64 SF/ctn

Weight; Square Feet/Carton 769 – 0.61 lbs/SF; 96 SF/ctn 704, 2195 – 0.63 lbs/SF; 64 SF/ctn 772, 773 – 0.63 lbs/SF; 100 SF/ctn 703 – 0.65 lbs/SF; 80 SF/ctn 770 – 0.69 lbs/SF; 64 SF/ctn 816 – 1.08 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton, excludes other size panels.

Metric Items Available 770M, 824M, 769M, 773M, 772M, 2195M, 704M, 703M, 823M – Metric items are subject to extended lead times and minimum quantities. Contact your

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: cortega) BPCS-3017/3022-517

NOTE: 9/16" Cortega Second Look items are installed using Suprafine® suspension systems only.

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64 SF/Ctn 2765, 2767 - 0.73 lbs/SF; 80 SF/ctn 2758 - 1.26 lbs/SF; 64 SF/ctn 2776 - 0.70 lbs/SF; 80 SF/ctn

## CREATE!™ ULTIMA®, ULTIMA® Health Zone™, OPTIMA®

Square Lay-in, Tegular & Vector® fine texture









Create!™ custom images are available on Ultima, Ultima® Health Zone™, and Optima® panels. Great acoustics have never been so colorful!

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Artistic designs have broad appeal and complement unique interior design
- Mix and match designs with standard Ultima, Ultima Health Zone, and Optima
- Excellent sound absorption NRC 0.70 – 0.90
- The high performance benefits of Ultima or Optima fine-textured ceilings:
- Washable, Soil-resistant (Ultima, Optima) - Water-repellent (Ultima Health Zone)
- · Product is directional
- · Custom samples available
- · Can contribute to LEED® credits

### TYPICAL APPLICATIONS

- Classrooms
- · Libraries/media centers
- · Lobbies/reception areas
- Retail
- Restaurant

## CREATE YOUR OWN UNIQUE, CUSTOM CEILING VISUAL USING COLOR AND ARTWORK

### Original Artwork Guidelines:

- · Artwork must be vector-based
- · Acceptable file types:
- Adobe® Illustrator® .ai
- Encapsulated PostScript .eps
- Scalable Vector Graphics .svg
- · Acceptable Color Mode: CMYK

## Original Digital Image Requirements:

- · Image must be 150 dpi at full print size
- · Acceptable file types:
- Joint Photographic Experts Group .jpg
   Tagged Image File Format .tiff

## Solid Color Requirements:

- · Custom colors are available
- RAL® classic colors available on suspension systems and perimeter trims



## CREATE!™ ULTIMA®, ULTIMA® Health Zone™, OPTIMA®

Square Lay-in, Tegular & Vector® fine texture

## THEMES – AVAILABLE ON ULTIMA®, ULTIMA® HEALTH ZONE™, OPTIMA® CREATE!™ PANELS

### **Blooms**



Single Panel Design 021



4-Panel Design Design 022 (Add A, B, C, or D for individual panel



Single Panel Design 051



4-Panel Design Design 052 (Add A, B, C, or D for individual panel order)

## Stars



Single Panel Design 041



Single Panel Design 042



Single Panel Design 043



**Bubbles** 

Single Panel Design 011



Single Panel Design 012 Design 013



Single Panel

## WOOD LOOKS - AVAILABLE ON ULTIMA HEALTH ZONE CREATE! SQUARE LAY-IN PANELS Due to printing limitations, shade may vary from actual product.



Bamboo (BA)



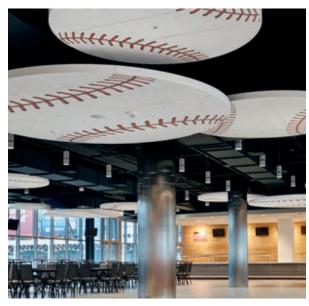




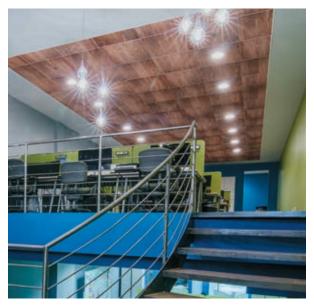


**COLOR REFERENCE CHART** 

Choose from the standard colors shown on the front of Createl  $6" \times 6"$  submittal samples. Keep in mind, sheen varies slightly depending on base panel selection (Ultima, Ultima Health Zone, Optima). Custom colors available.



Optima<sup>®</sup> Create!™ Vector<sup>®</sup> panels with Prelude<sup>®</sup> XL<sup>®</sup> suspension system



Ultima® Create!™ Vector® panels in Oak Wood Looks with Prelude® XL® suspension system

Square Lay-in, Tegular & Vector® fine texture

**VISUAL SELECTION** PERFORMANCE SELECTION Dots represent high level of performance.

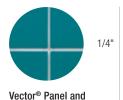
\$\$\$\$

Edge Profile Suspension System	Item No. ◆	Dimensions (Inches)	NRC (2	+ CAC	Total	Fire Performance	Anti-Mold & Mildew	Sag Resist	Water Repel	Wash Wash	Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA® or OPTIMA®	Create!™ Square	e Lay-in					Bio- Block	Humi- Guard+		- Durability				
for 15/16" Prelude® XL®	Z1910UC1	24 x 24 x 3/4"	0.75	35	BETTER (III)	Class A	•	•	-	•	•	•	•	•
	Z33520C1	24 x 24 x 1"	0.90	26	-	Class A	•	•	_	•	•	•	•	•
ULTIMA Create! Tegul	ar													
for 9/16" Silhouette® XL® ONLY; 1/4" or 1/8" Reveal	Z1912UC1	24 x 24 x 3/4"	0.75 •	35 •	BETTER (III)	Class A	•	•	-	•	•	•	•	•
ULTIMA® or OPTIMA®	Create!™ Vector	®												
for 15/16" Prelude XL (White only)	Z1920UC1	24 x 24 x 3/4"	0.70	33	_	Class A	•	•	-	•	•	•	•	•
	Z39010C1	24 x 24 x 7/8"	0.80	26	_	Class A	•	•	_	•	•	•	•	•
							Bio-							
ULTIMA® Health Zone	<u>.</u>						Block+							
for 15/16" Prelude XL	Z1935UC1*	24 x 24 x 3/4"	0.70	38	BETTER	Class A	•	•	•	•	•	•	•	•
ULTIMA® Health Zone	™ Create!™ Tegu	lar												
for 9/16" Silhouette XL ONLY; 1/4" or 1/8" Reveal	Z1936UC1	24 x 24 x 3/4"	0.70	38	BETTER (III)	Class A	•	•	•	•	•	•	•	•

NOTE: Replacement panels may vary slightly in color due to material variations over time. Product could have slight color variation from run to run; adequate attic stock should be ordered. Ultima Health Zone ceilings have different scrim surface than Ultima or Optima which may affect color.

- 1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) Based on image/color coverage, NRC may vary slightly.
- ◆ Add 2-letter color suffix to item when specifying or ordering standard Wood Looks items. (e.g., Z1935UC1 <u>L C)</u>

### SUSPENSION SYSTEMS AND EDGE DETAILS



Prelude® XL®

(White suspension required for Vector)



Tegular Panel and Silhouette® XL® 1/4" Reveal



Tegular Panel and Silhouette® XL® 1/8" Reveal



Lay-in Panel and Prelude® XL® or 360° Painted Grid



COLORS

RAL® Colors Available on Suspension Systems and Perimeter Trims

### PHYSICAL DATA

Ultima®/Ultima® Health Zone: Wet-formed mineral fiber Optima: Fiberglass with DuraBrite® acoustically transparent membrane with CAC-backing

## Surface Finish

Factory-applied latex paint with UV printing

## Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

ASTM E1264 Classification
Ultima/Ultima Health Zone: Type III, Form 2, Pattern E Optima: Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for

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areas subject to high humidity, up to, but not including, standing water and outdoor applications

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew. Health Zone ceiling panels with BioBlock® Plus performance also resist odor and stain causing bacterial growth.

### **Acoustical Performance**

CAC testing conducted using Silhouette® suspension system.

### **High Recycled Content**

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

## Insulation Value

Ultima/Ultima Health Zone: R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units) Optima: R Factor – 4.0 (BTU units) R Factor – 0.70 (Watts units)

## 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. 1-year limited warranty on color. Details at armstrongceilings.com

15/16'

Weight; Square Feet/Carton Ultima/Ultima Health Zone: 1.05 lbs/SF; 16 SF/ctn Optima: 0.55 lbs/SF; 16 SF/ctn

Minimum Order Quantity:



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BPCS-4949-517

LOCATION DEPENDENT

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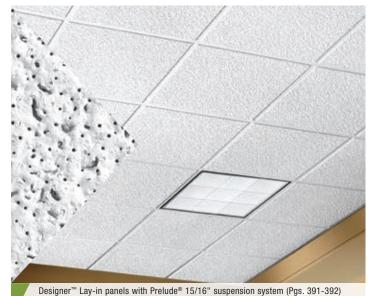
Designer<sup>™</sup> panels offer a coarse-textured visual with standard absorption in an economical ceiling panel.

## **KEY SELECTION ATTRIBUTES**

- · Standard sound absorption
- · Cost-effective

## TYPICAL APPLICATIONS

- · Utility rooms
- · Discount stores
- · Supply and storage rooms



## **COLOR**



(WH)

## VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance.

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions	UL Clas Acous	sified	II Total Acoustics <sup>1</sup>	Fire Performance	t ect	Anti-Mold & Mildew	st	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)	NRC +	CAC	II Total Acous	Fire Perf	Light Reflect	Anti & Mi	Sag Resist	Cert	Dura	Recy	43	Warı
DESIGNER So	quare Lay-in														
15/16" Square Lay-in	1	735	24 x 24 x 5/8"	0.55	30	-	Class A	0.81	-	Std	-	Std	Std	•	1-Yr
	1	734	24 x 48 x 5/8"	0.55	30	-	Class A	0.81	-	Std	-	Std	Std	•	1-Yr
DESIGNER Te	gular														
15/16" Angled Tegular	13	737	24 x 24 x 5/8"	0.55	33	=	Class A	0.81	-	Std	-	Std	Std	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS



### PHYSICAL DATA

### Material

Wet-formed mineral fiber

Surface Finish Factory-applied latex paint

## Fire Performance

Class A: Flame Spread Index 25 or less (UL labeled) per ASTM E1264

# **ASTM E1264 Classification** Type III, Form 2, Pattern F Fire Class A

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search; designer)

BPCS-3024-517

Humidity/Sag Resistance Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

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Insulation Value R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

Warranty
Details at armstrongceilings.com

**Weight; Square Feet/Carton** 734 – 0.80 lbs/SF; 80 SF/ctn 735, 737 – 0.80 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton

Metric Items Available 735M, 734M, 737M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.









This durable, fine-textured panel offers a non-directional visual.

## **KEY SELECTION ATTRIBUTES**

- · Upgrade look at a modest price
- Ceiling<sup>™</sup> Post-consumer Recycled Content options: Items 1773HRC, 1774HRC, 1775HRC, 1776HRC, 1777HRC
- (check armstrongceilings.com/greengenie)
- USDA-Certified Biobased Product 100%
- Durable –
   Scratch-resistant
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag (excludes items 1796 and 1798), mold and mildew

## TYPICAL APPLICATIONS

- Offices
- Corridors
- Retail
- Hospitality

## **COLOR**



(WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 250)











- 1. Dune™ Tegular
- 2. Dune™ Square Lay-in with Prelude 15/16" suspension system
- 3. Dune<sup>™</sup> Tegular with Suprafine<sup>®</sup> 9/16" suspension system
- 4. Dune™ Tegular with Silhouette® XL® 9/16" suspension system with 1/4" reveal
- 5. Dune<sup>™</sup> Tegular with Interlude® XL® HRC 9/16" suspension system

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## DUNE™

VISUAL SELECTION

## Square Lay-in & Tegular fine texture

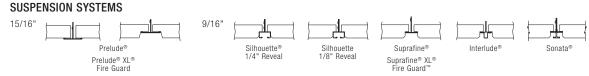


RECYCLED CONTENT LOCATION DEPENDENT

PERFORMANCE SELECTION Dots represent high level of performance.

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Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions		UL Clas Acous	sified	II Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warrantv
Profile	armstrongceilings. com/catdwgs	No.	(Inches)		NRC +	CAC	 Tota Acol	4	•	<b>®</b>	*	Cert VOC		Recy	43	30-Y Wari
DUNE™ S	Square Lay-in									Bio- Block	Humi- Guard+		Durability			
15/16" Square	1	1772	24 x 24 x 5/8"		0.50	30	_	Class A	0.83	•	•	•	•	Std	•	•
_ay-in ———(	1	1850	24 x 24 x 5/8"		0.50	35	_	Fire Guard™	0.83	•	•	•	•	Std	•	•
	1	1773 1773HRC	24 x 48 x 5/8"		0.50	30	_	Class A	0.83	•	•	•	•	Std	•	•
	1	1851	24 x 48 x 5/8"		0.50	35	-	Fire Guard	0.83	•	•	•	•	Std	•	•
	1	1796	20 x 60 x 3/4"		0.50	35	_	Class A	0.83	•	Std	•	•	•	•	1-Y
	1	1798	30 x 30 x 3/4"		0.50	35	_	Class A	0.83	•	Std	•	•	•	•	1-Y
	1	Other Size Panels	W: 12" - 30" / L: 1 5/8" or 3/4" Thick	8" – 72"	N/A	N/A	-	Class A	0.83	•	Std	•	•	Std	•	1-Yı
DUNE Te	egular															
5/16" Angled	12	1774 1774HRC	24 x 24 x 5/8" 24 x 24 x 5/8"		0.50	35 •	_	Class A	0.83	•	•	•	•	Std	•	•
egular	12	1853	24 x 24 x 5/8"		0.50	35	_	Fire Guard	0.83	•	•	•	•	Std	•	•
\(	12	1776 1776HRC	24 x 48 x 5/8" 24 x 48 x 5/8"		0.50	35 •	-	Class A	0.83	•	•	•	•	Std	•	•
	12	Other Size Panels	W: 12" - 30" / L: 1 5/8" Thick	8" – 72"	N/A	N/A	_	Class A	0.83	•	Std	•	•	Std	•	1-Yı
9/16" Beveled	29, 44, 48, 52, 56	1775 1775HRC	24 x 24 x 5/8" 24 x 24 x 5/8"		0.50	35	-	Class A	0.83	•	•	•	•	Std	•	•
Fegular	29, 44, 48, 52, 56	1852	24 x 24 x 5/8"		0.50	35	_	Fire Guard	0.83	•	•	•	•	Std	•	•
	29, 44, 48, 52, 56	1777 1777HRC	24 x 48 x 5/8" 24 x 48 x 5/8"		0.50	35 •	-	Class A	0.83	•	•	•	•	Std	•	•
	29, 44, 48, 52, 56	Other Size Panels	W: 12" - 30" / L: 1 5/8" Thick	8" - 72"	N/A	N/A	-	Class A	0.83	•	Std	•	•	Std	•	1-Yr



### PHYSICAL DATA

Material Wet-formed mineral fiber

## Surface Finish

Factory-applied latex paint

## Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled) Fire Guard\*: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

## ASTM E1264 Classification

Type III, Form 2, Pattern C E Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended
rease subject to high humidity, up to, but not
including, standing water and outdoor applications.
Excludes items 1796, 1798, and large other size panels.

## Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew

Acoustical Performance CAC testing conducted using Silhouette® suspension system.

## **VOC** Emissions

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy** See all LCA information on our EPDs.

### **High Recycled Content**

High Recycled content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

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### Insulation Value

R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com (Excludes items 1796, 1798, and large other size panels)

Weight; Square Feet/Carton 1772 – 0.94 lbs/SF; 64 SF/ctn 1773 – 0.88 lbs/SF; 64 SF/ctn 1796 – 1.33 lbs/SF; 64 SF/ctn 1798 – 1.14 lbs/SF; 50 SF/ctn 1850 – 1.19 lbs/SF; 64 SF/ctn 1851 – 1.22 lbs/SF; 64 SF/ctn 1774, 1775 – 0.75 lbs/SF; 64 SF/ctn 1776, 1777 – 0.75 lbs/SF; 64 SF/ctn 1852 1853 – 1.20 lbs/SF; 64 SF/ctn

## Minimum Order Quantity

1852, 1853 - 1.20 lbs/SF; 48 SF/ctn 1 carton, excludes other size panels

Metric Items Available 1772M, 1850M, 1773M, 1851M, 1796M, 1798M, 1775M, 1777M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



## DUNE™ Second Look®

Scored Tegular fine texture



This fine-textured visual offers geometric scored visuals.

## **KEY SELECTION ATTRIBUTES**

- · Upgrade look at a modest price
- USDA Certified Biobased Content 100%
- Durable Scratch-resistant

## 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

- · Specialty shops/stores
- Corridors
- Offices

## **FACE VIEW**



Second Look I panel - Scoring creates nominal 12" x 12" squares



Dune™ Second Look® I panels with Prelude® 15/16" suspension system (Pgs. 391-392)

Second Look II panel – Scoring creates nominal 24" x 24" squares

## **COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 252.)





- 1. Dune® Second Look®
- 2. Dune Second Look with Suprafine® 9/16" suspension system



RECYCLED CONTENT armstrongceilings.com/greengenie

VISUAL SELECTION

Scored Tegular fine texture

DUNE™ Second Look®

PERFORMANCE SELECTION Dots represent high level of performance

LOCATION DEPENDENT

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Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions	UL C	(I) lassified oustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Scratch	- Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)	NRC	+ ĈAC	=	Tota Acou	Fire		<b>(S)</b>	*	Cert		Recy	43	30-Y Warı
DUNE™ Second	Look® I									Bio- Block	Humi- Guard+		Durability			
15/16" Angled Teg	ular 11	2711	24 x 48 x 3/4"	0.50	35 •		_	Class A	0.83	•	•	•	•	Std	•	•
DUNE Second L	ook II															
15/16" Angled Teg	ular 11	2712	24 x 48 x 3/4"	0.50	35 •		-	Class A	0.83	•	•	•	•	Std	•	•
9/16" Angled Tegu	lar 27	2722	24 x 48 x 3/4"	0.50	35		_	Class A	0.83	•	•	•	•	Std	•	•
1 Total Acoustics® cei	ling nanels have an ideal	Leombinatio	on of noise reduction and sour		nerformano	e in or	ne nrodu	nt								

### SUSPENSION SYSTEMS

15/16"



9/16"



Prelude<sup>®</sup>

### Suprafine®

### PHYSICAL DATA

### Material

Wet-formed mineral fiber

Surface Finish Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

# ASTM E1264 Classification Type III, Form 2, Pattern C E K

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Insulation Value R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

**Design Consideration**Do not mix Dune™ Second Look® with standard Dune panels in the same room.

### 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 1.00 lbs/SF; 80 SF/ctn

### Minimum Order Quantity 1 carton

Metric Items Available 2711M, 2722M, 2712M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: dune) BPCS-3223-517

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FastSize™ Ceiling Panels The sizes you need...factory finished... one carton minimums...shipped fast! Available in select Cirrus®, Optima®, Optima® Capz™, and Ultima® panels. See "Item No." column on product pages for size availability. FastSize, other sizes, and colors are not UL Classified for acoustics. HRC products are not available in FastSize options.

### **KEY SELECTION ATTRIBUTES**

- · Factory-finished edge details on ceiling
- · Factory-finished routing for suspension systems
- Popular textures, including  ${\sf Cirrus}^{\it \tiny (\!R\!)},$ Optima®, Optima® Capz®, and Ultima® panel textures
- Popular suspension systems including Prelude® XL®, ML, Suprafine® XL®, Interlude® and Silhouette®
- · Size flexibility:\*
  - From 4" 48" wide and 4" 120" long for panels
  - From 36" 144" for main beams; 4" – 144" for cross tees
  - Metric sizes available

- · Fast lead times (from signed drawing to shipment from plant)
  - 3 weeks for panels
  - 2 weeks for suspension systems
  - 24-hour quotes
  - 24-hour for ship date confirmation
- · One carton minimums
- · Installation benefits:
  - No need for field-cutting panels or routing suspension system
  - Faster, easier installation
  - Minimized punch list
- \* Sizes intended for cut outs or borders only. For special size full field installations contact Armstrong Ceilings customer service.

### **CEILING PANELS**

Pattern	Edge Detail	Width	Length	Thickness	
CIRRUS®	Square Lay-in	4" – 24"	4" – 48"	3/4"	
	Tegular	4" - 24"	4" – 48"	3/4"	
OPTIMA®	Square Lay-in	4" – 48"	4" – 120"	1"	
	Square Tegular	4" - 48"	4" - 120"	1"	
	Vector	4" - 30"	12" – 96"	7/8"	
	Concealed	30" – 48"	12" – 48"	7/8"	
OPTIMA® CAPZ™	Reverse Tegular	12" – 48"	12" – 120"	7/8"	
ULTIMA®	Square Lay-in	4" – 24"	4" - 72"	3/4"	
	Beveled Tegular	4" – 24"	4" - 72"	3/4"	
	Vector	4" – 24"	4" – 24"	3/4"	

Exclusions: Cirrus® High NRC, Profiles, Themes™, and HRC / 1" Optima® – Health Zone™, Create!.™ / Ultima® High NRC, AirGuard™ coating, Health Zone™, Create!, and HRC

### SUSPENSION SYSTEMS

Pattern	Main Beam Length	Cross Tee Length	Rout Spacing (custom options available)	
PRELUDE® ML	36" – 144"	4" - 144"	2" from ends, 4" O. C. thereafter	
PRELUDE® XL®	36" – 144"	4" - 144"	2" from ends, 4" O. C. thereafter	
SUPRAFINE® XL®	36" – 144"	4" - 144"	2" from ends, 4" O. C. thereafter	
INTERLUDE®	36" - 144"	4" - 144"	2" from ends, 4" O.C. thereafter	
SILHOUETTE®	36" - 144"	4" – 144"	3" from ends, 6" O.C. thereafter	

Exclusions: Prelude® ML Exterior and Suprafine® ML suspension systems



# FINE FISSURED™

Tile medium texture

Calculate LEED contribution at armstrongceilings.com/greengenie LOCATION DEPENDENT

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Fine Fissured<sup>™</sup> panels offer a non-directional visual, standard acoustics, and concealed or tongue-and-groove installation.

### **KEY SELECTION ATTRIBUTES**

- 12" x 12" concealed tile option provides grid-hiding monolithic installation
- · Non-directional visual reduces scrap and installation time
- · 30-Year Limited System Warranty against visible sag, mold and mildew

### TYPICAL APPLICATIONS

· Areas with low ceiling height or limited plenum





### VISUAL SELECTION

### PERFORMANCE SELECTION Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL C	lassified oustics	II Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
FINE FISSURED™					3			#TAP	Bio- Block	Humi- Guard+					
Concealed	66	746	12 x 12 x 5/8"	0.55	35	-	Class A	0.85	•	•	•	Std	•	•	30-Yr
Tongue-and-Groove	63	741	12 x 12 x 1/2"	0.55	N/A	_	Class A	0.85	•	•	•	Std	•	•	30-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Splines not included in carton. Not recyclable when glue-up installation method is used.

Fine Fissured™ tile with Prelude® Concealed 15/16" suspension system (Pg. 387)

### SUSPENSION SYSTEM

15/16" Concealed



Tongue-and-Groove



### Prelude® Concealed or Adhesive

### PHYSICAL DATA

Material Wet-formed mineral fiber

### Surface Finish Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled.)

**ASTM E1264 Classification** Type III, Form 2, Pattern C E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title
24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI
Green Building Assessment Protocol.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

741 – 0.75 lbs/SF; 40 SF/ctn 746 – 0.90 lbs/SF; 40 SF/ctn

Minimum Order Quantity

П

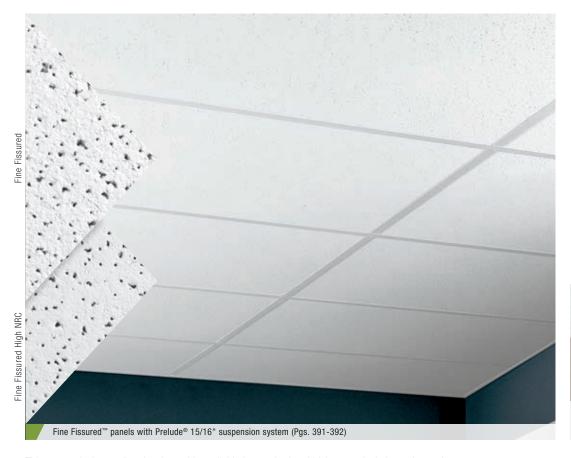
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# FINE FISSURED™ High NRC

Square Lay-in medium texture









This economical, non-directional panel is available in standard and high-acoustical absorption options.

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Meets ANSI S12.60 Classroom Guidelines: Items 1713, 1714, 1810, 1811
- Economical
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag (excludes item 1738), mold and mildew

### TYPICAL APPLICATIONS

- Schools
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements (High Acoustics items only)
- · Libraries/band rooms
- Corridors
- · Theaters (Tech Black)

### $\begin{tabular}{ll} \textbf{COLORS} & \textbf{Due to printing limitations, shade may vary from actual product.} \end{tabular}$













Items 1728 and 1729 are available in colors. Item 1713 is available in Black and White. All other items are available in White only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.

### **DETAILS**





1. Fine Fissured Square Lay-in

Platinum

2. Fine Fissured Square Lay-in with Prelude 15/16" suspension system



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W

# FINE FISSURED™ FINE FISSURED™ High NRC

Square Lay-in medium texture

VISUAL SELECTION

RECYCLED CONTENT

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions		(I) Classified coustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No. ◆	(Inches)	NRC	+ CAC	= NRC CAC	AC =	め	•	8	**	Vo.	Dar	Cor		30- Wal
FINE FI	SSURED™ Hig	h NRC								Bio- Block	Humi- Guard+					
15/16" Square Lay-in	1	1754	24 x 24 x 7/8"	0.75	35 •	BETTER (III)	170	Class A	0.86	•	•	•	Std	•	•	•
	1	1755	24 x 48 x 7/8"	0.75	35 •	BETTER	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
15/16" Square	SSURED™ 1	1736	20 x 60 x 5/8"	0.55	35	_	_	Class	0.85	•	•	•	Std	Std	•	•
Lay-in	1	1728	24 x 24 x 5/8"	0.55	33	-	-	Class A	0.85*	•	•	•	Std	Std	•	•
	1	1831	24 x 24 x 5/8"	0.55	35 •	_	-	Fire Guard™	0.85	•	•	•	Std	•	•	•
	1	1729	24 x 48 x 5/8"	0.55	•	_	-	Class A	0.85*	•	•	•	Std	Std	•	•
	1	1830	24 x 48 x 5/8"	0.55	•	_	_	Fire Guard	0.85	•	•	•	Std	•	•	•
	1	1737	24 x 60 x 5/8"	0.55	•	_	_	Class A	0.85	•	•	•	Std	Std	•	•
	1	1738	30 x 60 x 3/4"	0.55	•	_	_	Class A	0.85	•	Std	•	Std	Std	•	•
Cahaal	Zone® FINE F	Other Size Panels	W: 12" - 30" / L: 18" - 72 5/8" or 3/4" thick	' N/A	N/A	_	_	Class A	0.85	•	Std	•	Std	Std	•	•
15/16" Square Lay-in	1	1713 1713BL	24 x 24 x 3/4"	0.70	35	BETTER		Class A	0.85*	•	•	•	Std	•	•	•
Lay-III	1	1810	24 x 24 x 3/4"	0.70	40	BETTER (III)		Fire Guard	0.85	•	•	•	Std	•	•	•
	1	1714	24 x 48 x 3/4"	0.70	40	BETTER		Class A	0.85	•	•	•	Std	•	•	•
	1	1811	24 x 48 x 3/4"	0.70	40	BETTER		Fire Guard	0.85	•	•	•	Std	•	•	•
	1	Other Size Panels	W: 12" - 30" / L: 18" - 72 3/4" thick	' N/A	N/A	_		Fire Guard	0.85	•	•	•	Std	Std	•	•

Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16"



Prelude® XI ® Fire Guard

### PHYSICAL DATA

Material

Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in control III accompliate (Clapp A). in applicable UL assemblies (Class A).

ASTM E1264 Classification Type III, Form 2, Pattern C E

Fire Class A

Humidity/Sag Resistance
Humidity/Sag Resistance
Humiduard® Plus ceiling panels are recommended
for areas subject to high humidity, up to, but not
including, standing water and outdoor applications.
Excluding Item 1738 and other size panels.

Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: fine fissured) BPCS-3227-517

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard Method
Version 1.1, 2010. This standard is the guideline for low
emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/
IES Standard 189; ANSI/GBI Green Building Assessment Protocol. (Except 1728, 1729 in colors)

**Acoustical Performance** 

CAC testing conducted using Prelude® XL® suspension

Primary (Embodied) Energy See all LCA information on our EPDs.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value

Square Lay-in Items R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

LEED® is a registered trademark of the U.S. Green Building Council UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System.

Details at armstrongceilings.com (Excludes item 1738 and other size panels)

Weight; Square Feet/Carton 1728 - 0.70 lbs/SF; 64 SF/ctn 1729 - 0.70 lbs/SF; 96 SF/ctn 1738 - 0.80 lbs/SF; 75 SF/ctn 1736, 1737 - 0.93 lbs/SF;

64 SF/ctn 1713, 1810 – 1.31 lbs/SF; 48 SF/ctn 100 SF/ctn 1754 – 1.08 lbs/SF; 40 SF/ctn 1755 – 1.08 lbs/SF; 48 SF/ctn 1714, 1811 – 1.38 lbs/SF; 64 SF/ctn

1830, 1831 - 1.05 lbs/SF;

Minimum Order Quantity

1 carton, excludes other size panels

Metric Items Available 1728M, 1729M, 1736M, 1737M, 1738M, 1754M, 1755M, 1810M, 1811M, 1830M, 1831M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



<sup>◆</sup> Add 2-letter color suffix to item number when specifying or ordering (e.g., 1729 <u>B</u> <u>L</u>) \* Light reflectance number for white only.

# FINE FISSURED™ High NRC

Tegular medium texture









This economical, non-directional panel available in standard and high acoustical absorption options.

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Options provide excellent combination of acoustical performance NRC (up to 0.75), CAC (up to 35), and Articulation Class (170)
- Fine Fissured™ School Zone® items help comply with ANSI S12.60 Classroom Guidelines
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Schools
- · Libraries/band rooms
- Corridors
- · Discount stores
- · Utility rooms

**COLORS** Due to printing limitations, shade may vary from actual product.











Item 1732 is available in colors.
All other items are available in White only.
Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.

**DETAILS** (Other Suspension Systems compatible. Refer to listing on pages 258, 260)







- 1. Fine Fissured™ Beveled Tegular
- 2. Fine Fissured Angled Tegular
- 3. Fine Fissured Tegular with Suprafine  $9/16\mbox{"}$  suspension system



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### RECYCLED CONTENT Calculate LEED contribution at FINE FISSURED™ armstrongceilings.com/greengenie FINE FISSURED™ High NRC medium texture

LOCATION DEPENDENT

PERFORMANCE SELECTION Dots represent high level of performance.

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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	ltem No. ◆	Dimensions (Inches)	UL Cla Acou	ssified stics	   Description     Description     Description	1) Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
FINE FI	SSURED™ High	NRC		 						Bio- Block	Humi- Guard+					
15/16" Angled Tegular	13	1756	24 x 24 x 7/8"	0.75 •	35 •	BETTER	170	Class A	0.86	•	•	•	Std	•	•	•
	13	1757	24 x 48 x 7/8"	0.75	35	BETTER (III)	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
9/16" Beveled Tegular	29, 44, 48, 52, 56	1758	24 x 24 x 7/8"	0.75	35	BETTER (III)	170	Class A	0.86	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56	1759	24 x 48 x 7/8"	0.75	35	BETTER	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
FINE FI	SSURED™															
15/16" Angled Tegular	12	1732	24 x 24 x 5/8"	0.55	35 •	-	N/A	Class A	0.85	•	•	•	Std	•	•	•
~/	12	1833	24 x 24 x 5/8"	0.55	35	-	N/A	Fire Guard™	0.85	•	•	•	Std	Std	•	•
	12	1733	24 x 48 x 5/8"	0.55	35	_	N/A	Class A	0.85	•	•	•	Std	Std	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

# SUSPENSION SYSTEMS

15/16"

Tegular

VISUAL SELECTION



9/16"











### PHYSICAL DATA

Material

Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled). Fire Guard\*\*: A fire-resistive ceiling when used in applicable UL assemblies. (Class A).

**ASTM E1264 Classification** Type III, Form 2, Pattern C E Fire Class A

TechLine 877 276-7876

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions

Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol (excludes item 1732 in colors).

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension
system for 15/16" edge detail and Silhouette suspension
system for 9/16" edge detail.

High Recycled Content
Contains greater than 50% total recycled content.
Total recycled content based on product composition
of post-consumer and pre-consumer (post-industrial)
recycled content per FTC guidelines.

Insulation Value R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

**30-Year Performance Guarantee & Warranty**When installed with Armstrong® Suspension System.
Details at armstrongceilings.com

Weight; Square Feet/Carton 1732 – 0.70 lbs/SF; 64 SF/ctn 1733 – 0.70 lbs/SF; 80 SF/ctn 1833 – 1.05 lbs/SF; 48 SF/ctn 1756, 1758 – 1.08 lbs/SF; 40 SF/ctn 1757, 1759 – 1.08 lbs/SF; 48 SF/ctn

Minimum Order Quantity 1 carton, excludes other sizes

Metric Items Available

1732M, 1733M, 1756M, 1757M, 1758M, 1759M – Metric items subject to extended lead times and minimum quantities

GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

<sup>◆</sup> Add 2-letter color suffix to item number when specifying or ordering (e.g., 1732 C R)

# FINE FISSURED™ High NRC

Tegular medium texture

VISUAL	SELECTION				PERF0	RMANC	E SELEC	TION		resent hi	igh level o	of perforn	nance.			\$3	\$\$\$
Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)		UL Cla Acou	ssified stics	Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
FINE FIS	SSURED™										Bio- Block	Humi- Guard+					
15/16" Angled Tegular	12	1834	24 x 48 x 5/8"		0.55	35 •	_	N/A	Fire Guard™	0.85	•	•	•	Std	•	•	•
	12	Other Size Panels	W: 12" - 30" / L: 5/8" thick	18" – 72"	N/A	N/A	-	N/A	Fire Guard	0.85	•	•	•	Std	Std	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	1734	24 x 24 x 5/8"		0.55	35	_	N/A	Class A	0.85	•	•	•	Std	Std	•	•
	29, 44, 48, 52, 56	1835	24 x 24 x 5/8"		0.55	35 •	_	N/A	Fire Guard	0.85	•	•	•	Std	Std	•	•
	29, 44, 48, 52, 56	Other Size Panels	W: 12" - 30" / L: 5/8" thick	18" – 72"	N/A	N/A	_	N/A	Fire Guard	0.85	•	•	•	Std	Std	•	•
School	Zone® FINE FI	SSURED															
15/16" Angled Tegular	13	1717	24 x 24 x 3/4"		0.70	40 •	BETTER (III)	N/A	Class A	0.85	•	•	•	Std	•	•	•
	13	1820	24 x 24 x 3/4"		0.70	35	BETTER (III)	N/A	Fire Guard	0.85	•	•	•	Std	•	•	•
	13	1824	24 x 48 x 3/4"		0.70	35	BETTER (III)	N/A	Fire Guard	0.85	•	•	•	Std	•	•	•
	13	Other Size Panels	W: 12" - 30" / L: 3/4" thick	18" - 72"	N/A	N/A	_	N/A	Fire Guard or Class A	0.85	•	•	•	Std	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)



# FINE FISSURED™ FINE FISSURED™ High NRC

Tegular medium texture

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance.

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	ltem No. ◆	Dimensions (Inches)		UL Cla Acou	ssified stics	Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
School	Zone® FINE FIS	SSURED™									Bio- Block	Humi- Guard+					
9/16" Beveled Tegular	29, 44, 48, 52, 56	1719	24 x 24 x 3/4"		0.70	40	BETTER (III)	N/A	Class A	0.85	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56	1821	24 x 24 x 3/4"		0.70	35	BETTER (III)	N/A	Fire Guard™	0.85	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56	Other Size Panels	W: 12" - 30" / L: 3/4" thick	18" - 72"	N/A	N/A	_	N/A	Fire Guard or Class A	0.85	•	•	•	Std	Std	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

◆ Add 2-letter color suffix to item number when specifying or ordering (e.g., 1719 C R)

### SUSPENSION SYSTEMS

15/16"



9/16"











### PHYSICAL DATA

Material

Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification

Type III, Form 2, Pattern C E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title
24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI
Cases Building Accessed Particles (expludes tiem 18 Green Building Assessment Protocol (excludes item 1835).

**Acoustical Performance** 

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

**High Recycled Content** 

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton

1820, 1821 – 1.31 lbs/SF; 48 SF/ctn 1717, 1719 – 1.25 lbs/SF; 48 SF/ctn 1834 – 1.05 lbs/SF; 64 SF/ctn 1734 – 0.70 lbs/SF; 64 SF/ctn 1835 – 1.05 lbs/SF; 64 SF/ctn 1824 – 1.20 lbs/SF; 64 SF/ctn

**Minimum Order Quantity** 1 carton, excludes other sizes

Metric Items Available 1820M, 1821M, 1717M, 1719M, 1834M, 1734M, 1824M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



This panel offers economical, standard acoustics and scored visuals.

### **KEY SELECTION ATTRIBUTES**

- · Geometric scored visuals
- · Economical option to create a designer look

### TYPICAL APPLICATIONS

- · Department stores/retail
- · Many types of commerical interiors

# **COLOR**





### **FACE VIEW**







Second Look I

Second Look II

Second Look III

### VISUAL SELECTION

Fine Fissured™ Second Look® II panels with Suprafine® 9/16" suspension system (Pgs. 400-401)

### PERFORMANCE SELECTION Dots represent high level of performance.

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions		UL C	(h) lassified oustics		Total Acoustics¹	Fire Performano	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)		NRC	+ CAC	=	Total Acou	4		<b>®</b>	1	Certi Voc	Dura	Recy	43	30-y Warr
FINE FISSUF	RED™ Second L	_00k®									Bio- Block	Humi- Guard+					
15/16" Angled Tegular_	11	1760	24 x 48 x 3/4"	Second Look I	0.55	35		-	Class A	0.84	•	•	•	Std	Std	•	•
	11	1761	24 x 48 x 3/4"	Second Look II	0.55	35		-	Class A	0.84	•	•	•	Std	Std	•	•
	11	1861	24 x 48 x 3/4"	Second Look II	0.55	35 •		-	Fire Guard™	0.84	•	•	•	Std	Std	•	•
	11	1762	24 x 48 x 3/4"	Second Look III	0.50	35		-	Class A	0.84	•	•	•	Std	Std	•	•
9/16" Angled Tegular	27	1765	24 x 48 x 3/4"	Second Look I	0.55	30		-	Class A	0.84	•	•	•	Std	Std	•	•
	27	1766	24 x 48 x 3/4"	Second Look II	0.55	30		-	Class A	0.84	•	•	•	Std	Std	•	•

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less. (UL labeled).
Fire Guard<sup>101</sup>: A fire-resistive ceiling when used in proliferia in applicable UL assemblies (Class A).

### **ASTM E1264 Classification**

Type III, Form 2, Pattern C E K Fire Class A

### **Humidity/Sag Resistance**

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title
24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI
Green Building Assessment Protocol.

Insulation Value R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### **Design Consideration**

Do not mix Fine Fissured™ Second Look® panels with standard Fine Fissured panels in the same room.

# Weight; Square Feet/Carton 0.75 lbs/SF; 80 SF/ctn

Minimum Order Quantity

### Metric Items Available

1761M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



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# FISSURED™

Square Lay-in & Tegular medium texture

Calculate LEED contribution at armstrongceilings.com/greengenie LOCATION DEPENDENT

This economical panel with a directional, fissured visual offers standard acoustics.

### **KEY SELECTION ATTRIBUTES**

- Economical
- · Directional fissured image

### TYPICAL APPLICATIONS

- · Utility rooms
- · Discount stores



### **VISUAL SELECTION**

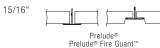
Fissured<sup>™</sup> Angled Tegular panels with Prelude® 15/16" suspension system (Pgs. 391-392)

### PERFORMANCE SELECTION Dots represent high level of performance

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions (Inches)		UL C	(I) lassifie oustics		Total Acoustics <sup>1</sup>	Fire Performance	t t	Anti-Mold & Mildew	st	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
Profile	armstrongceilings. com/catdwgs	No.	,		NRC	+ 04	; =	Total Acou	め	Light Reflect	Anti- & Mi	Sag Resist	Certi Voc	Dura	Recy		Warr
FISSURED™ So	quare Lay-in																
15/16"	1	756	24 x 24 x 5/8"		0.55	3	)	-	Class A	0.81	-	Std	•	Std	Std	•	1-Yr
Square Lay-in	1	896	24 x 24 x 5/8"		0.55	3		-	Fire Guard™	0.81	_	Std	•	Std	Std	•	1-Yr
	1	755	24 x 48 x 5/8"		0.55	3	)	-	Class A	0.81	-	Std	•	Std	Std	•	1-Yr
	1	895	24 x 48 x 5/8"		0.55	3		-	Fire Guard	0.81	-	Std	•	Std	Std	•	1-Yr
	1	Other Size Panels	W: 12" - 30" / L: 5/8" thick	18" – 72"	N/A	N/	A	-	Class A	0.81	-	Std	•	Std	Std	•	1-Yr
FISSURED Teg	ular																
15/16" Angled Tegular	12	705	24 x 24 x 5/8"		0.55	3	)	_	Class A	0.81	_	Std	•	Std	Std	•	1-Yr
	12	815	24 x 24 x 5/8"		0.55	3		-	Fire Guard	0.81	-	Std	•	Std	Std	•	1-Yr
•	12	Other Size Panels	W: 12" - 30" / L: 5/8" thick	18" – 72"	N/A	N/	A	-	Class A	0.81	_	Std	•	Std	Std	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

### Material

Wet-formed mineral fiber

## Surface Finish

Factory-applied latex paint

### Fire Performance

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).
Fire Guard™: A fire-resistive ceiling when used
in applicable UL assemblies (Class A).

# ASTM E1264 Classification

Type III, Form 2, Pattern C D Fire Class A

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: fissured) BPCS-3030-517

### Humidity/Sag Resistance

Standard performance celling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

### VOC Emissions

VOC Emissions.

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Insulation Value 755, 756, 895, 896 – R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

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705, 815 – R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

Weight; Square Feet/Carton 705 – 0.69 lbs/SF; 64 SF/ctn 755 – 0.66 lbs/SF; 64 SF/ctn 756 – 0.67 lbs/SF; 64 SF/ctn 815 – 1.08 lbs/SF; 48 SF/ctn 895, 896 – 1.09 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton, excludes other size panels

Metric Items Available
756M, 896M, 755M, 895M, 705M – Metric
items are subject to extended lead times and
minimum quantities. Contact your representative for more details.



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# GEORGIAN™ & GEORGIAN™ HIGH WASHABILITY

Square Lay-in & Tegular medium texture





This medium-textured panel offers good acoustics and high washability options to meet USDA/FSIS guidelines.

### **KEY SELECTION ATTRIBUTES**

- · Unique spatter-painted visual
- Total Acoustics® options (Items 795, 796)
- High Washability items available
   Meets USDA/FSIS guidelines for use
   in food processing establishments
- Durable Washable Scrubbable Impact-resistant Scratch-resistant
- · 30-Year Limited System Warranty against visible sag (excludes item 791 and other sizes), mold, and mildew

### TYPICAL APPLICATIONS

- Schools/classrooms (Items 795, 796)
- · Corridors/conference rooms
- · Kitchen/food preparation areas (Items 793, 794)

### **COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 264.)





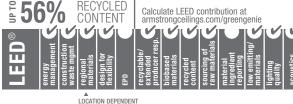


- 1. Georgian Beveled Tegular
- 2. Georgian Beveled Tegular with Prelude 15/16" suspension system
- 3. Georgian Beveled Tegular with Silhouette® 9/16" suspension system 1/4" Reveal



# GEORGIAN™ & GEORGIAN™ HIGH WASHABILITY

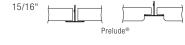
Square Lay-in & Tegular medium texture



VISUAL SELECTION PERFORMANCE SELECTION Dots represent high level of performance \$\$\$\$

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions	UL Clas Acous	sified	Total Acoustics <sup>1</sup>	Fire Performano	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Scrub	Impact	Scratch	cled ent	Recycle Program	r antv
Profile	armstrongceilings. com/catdwgs	No.	(Inches)	NRC +	CAC =	NRC	4	•	<b>(S)</b>	*	Certi VOC			<b>6</b>		Recycled Content	43	30-Yr Warranty
GEORGI	AN™								Bio- Block	Humi- Guard+			— Dura	ability —				
15/16" Square	1	764	24 x 24 x 5/8"	0.55	33	-	Class A	0.86	•	•	•	•	-	•	•	•	•	•
ay-in	1	763	24 x 48 x 5/8"	0.55	33	-	Class A	0.86	•	•	•	•	-	•	•	•	•	•
,	1	898	24 x 48 x 3/4"	0.55	35	-	Fire Guard™	0.86	•	•	•	•	-	•	•	•	•	•
	1	791	30 x 60 x 3/4"	0.55	33	-	Class A	0.86	•	Std	•	•	_	•	•	•	•	1-Yr
5/16" Beveled egular	15	1752	24 x 24 x 5/8"	0.55	35	-	Class A	0.86	•	•	•	•	_	•	•	•	•	•
/16" eveled egular	29, 44, 48, 52, 56 <b>ZONE® GEORG</b>	1753	24 x 24 x 5/8"	0.55	35 •	_	Class A	0.86	•	٠	٠	•	_	٠	•	٠	٠	•
5/16" Square	1	796	24 x 24 x 3/4"	0.65	35	G00D	Class A	0.86	•	•	•	•	_	•	•	•	•	•
ay-in	1	795	24 x 48 x 3/4"	0.65	35	~~	Class A	0.86	•	•	•	•	-	•	•	•	•	•
FORGL	1 AN – High Wasl	Other Size Panels		N/A	N/A	-	Class A	0.86	•	Std	•	•	_	•	•	•	•	1-Yr
5/16" Square .ay-in	1	794	24 x 24 x 5/8"	N/A	33	_	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	1	793	24 x 48 x 5/8"	N/A	33	-	Class A	0.88	•	•	•	•	•	•	•	•	•	•

GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)



9/16" Silhouette











### PHYSICAL DATA

### Material

Wet-formed mineral fiber Surface Finish

SUSPENSION SYSTEMS

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).
Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

# ASTM E1264 Classification

Type III, Form 2, Pattern C E Items 794, 793, 898 – Type IX, Form 2, Pattern G Fire Class A

Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not

including, standing water and outdoor applications. Excludes Item 791 and other size panels.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **Acoustical Performance**

CAC testing conducted using Silhouette® suspension system.

### **VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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### Insulation Value

R Factor - 1.6 (BTU units) R Factor - 0.28 (Watts units)

### 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System.

Details at armstrongceilings.com

Weight; Square Feet/Carton 763, 793 – 0.67 lbs/SF; 96 SF/ctn 764, 794, 1752, 1753 – 0.72 lbs/SF; 64 SF/ctn 791 – 0.76 lbs/SF; 75 SF/ctn 898 – 1.13 lbs/SF; 64 SF/ctn 795 - 1.38 lbs/SF; 64 SF/ctn

Minimum Order Quantity
1 carton, excludes other size panels

**Metric Items Available** 1753M, 764M, 763M, 791M, 1752M, 796M, 795M, 794M, 793M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



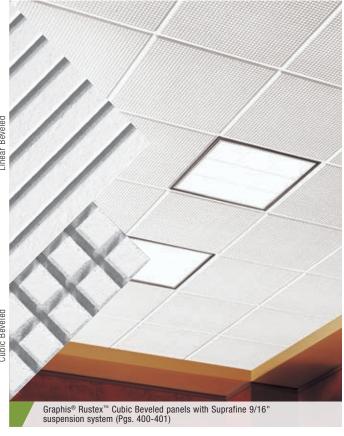
# GRAPHIS® Finetex™

Wrapped Linear, Cubic & NeoCubic™ fine texture

# GRAPHIS® Rustex™

Cubic Beveled & Linear Beveled coarse texture





These panels offer bold geometric and linear patterns with unique visual designs.

### **KEY SELECTION ATTRIBUTES**

### Finetex™

- Finely sculptured geometric patterns
- · Single- and multi-design options
- · High light reflectance
- · 30-Year Limited System Warranty

### Rustex™

- · Bold geometric designs
- · Good sound absorption
- · 30-Year Limited System Warranty

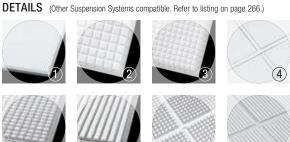
### TYPICAL APPLICATIONS

- · Department stores/retail
- · Many types of commercial interiors
- · Airports/bus/train stations

NOTE: Finetex panels are not recommended for areas requiring acoustical performance

### **COLOR**

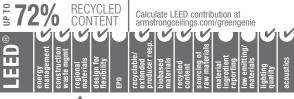




- 1. Graphis® Finetex™ Wrapped Linear
- 2. Graphis Finetex Cubic
- 3. Graphis Finetex NeoCubic™
- 4. Graphis Finetex Wrapped Linear with Suprafine 9/16" suspension system
- 5. Graphis Rustex Cubic Beveled
- 6. Graphis Rustex Linear Beveled
- 7. Graphis Rustex Cubic Beveled with Suprafine 9/16" suspension system
- 8. Graphis Rustex Linear Beveled with Suprafine 9/16" suspension system

Wrapped Linear™, Cubic & NeoCubic™ fine texture

Cubic Beveled & Linear Beveled coarse texture



VISUAL SELECTION

### PERFORMANCE SELECTION Dots represent high level of performance.

\$\$\$\$

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions	UL CI	assified ustics	II Total Acoustics¹	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Durability	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)	NRC	+ CAC	II Total Acou	Fire Perf		<b>®</b>	*	Dura	Recy	4	30-Y Warr
GRAPHIS® Fir	netex								Bio- Block	Humi- Guard+				
	Wrapped Line	ar												
9/16" Wrapped Tegula	34 r	8005	24 x 24 x 3/4"	N/A	35	-	Class A	0.90	-	-	Std	Std	•	•
	Cubic													
	36	8006	24 x 24 x 3/4"	N/A	35	-	Class A	0.90	-	-	Std	Std	•	•
	NeoCubic™													
	35	8007	24 x 24 x 3/4"	N/A	35	-	Class A	0.90	-	-	Std	Std	•	•
GRAPHIS® Ru	stex™													
	Cubic Beveled	d												
15/16" Beveled Tegular	20	2600	24 x 24 x 3/4"	0.55	30	-	Class A	0.75	•	•	Std	•	•	•
٦ ,	Linear Bevele	d												
_ ¬	20	2602	24 x 24 x 3/4"	0.55	30	-	Class A	0.75	•	•	Std	•	•	•
	Cubic Beveled	d												
9/16" Beveled Tegular	33	2600	24 x 24 x 3/4"	0.55	30	-	Class A	0.75	•	•	Std	•	•	•
\	Linear Bevele	d												
_ 4	33	2602	24 x 24 x 3/4"	0.55	30	-	Class A	0.75	•	•	Std	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS

15/16"



9/16"



Suprafine® Wrapped Tegular



Suprafine® Beveled Tegular

### PHYSICAL DATA

Material Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification** Type III, Form 2, Pattern J Z Fire Class A

Mold/Mildew Protection (Rustex™ only) Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**High Recycled Content** 

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value

R Factor - 1.6 (BTU units) R Factor - 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System.

Details at armstrongceilings.com

Weight; Square Feet/Carton 0.90 lbs/SF; 48 SF/ctn

Minimum Order Quantity

1 carton

Metric Items Available 2600M, 2602M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# KITCHEN ZONE™

Square Lay-in smooth texture



A better option to vinyl-covered gypsum, this panel offers a lower cost, lighter weight, more pieces per carton, and meets USDA/FSIS guidelines.

### **KEY SELECTION ATTRIBUTES**

- · Easier to cut with less dust
- Recyclable through Armstrong® Recycling Program
- Brighter visual with 20% more light reflectance than vinyl-covered gypsum
- Durable Water-repellent, Washable, Scratch-resistant, Soil-resistant
- Smooth surface meets USDA/FSIS guidelines for use in food processing areas
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Kitchen/food preparation areas
- · Laboratories
- Cafeterias
- · Lavatories/restrooms

### **COLOR**



White

### **DETAILS**





- 1. Kitchen Zone™ Lay-in
- 2. Kitchen Zone Lay-in with Prelude® 15/16" suspension system



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# KITCHEN ZONE™

Square Lay-in smooth texture

RECYCLED CONTENT armstrongceilings.com/greengenie

LOCATION DEPENDENT

PERFORMANCE SELECTION Dots represent high level of performance VISUAL SELECTION

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	NRC	+	CAC =	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash Wash	N Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
KITCHEN	ZONE™									Bio- Block	Humi- Guard+			— Dura	ıbility —				
15/16" Square Lay-in	1	673	24 x 24 x 5/8"	N/A		33	-	Class A	0.89	•	•	_	•	•	•	•	Std	•	•
	1	672	24 x 48 x 5/8"	N/A		33	-	Class A	•	•	•	_	•	•	•	•	Std	•	•

### SUSPENSION SYSTEMS

15/16"



### PHYSICAL DATA

Material Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less

**ASTM E1264 Classification** Type IX, Form 2, Pattern G Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Insulation Value R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

Application Consideration
Not designed for use in close proximity to commercial grease ducts.

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Cleaning Recommendations** 

To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:

Sodium hypochlorite

Outstands of the clean with a clean with a clean, white cloth. Acceptable colorless disinfectants include:

Quaternary ammonium

**Weight; Square Feet/Carton** 672 - 0.67 lbs/SF; 96 SF/ctn 673 - 0.82 lbs/SF; 64 SF/ctn

Minimum Order Quantity

# **LEDGES®**

# Tegular smooth texture





The dimensional look of old-world plaster ceilings is available in two classic designs.

### **KEY SELECTION ATTRIBUTES**

- · Dimensional, sculptured visual
- Affordable and practical alternative to embossed plaster panels
- Non-directional visual reduces installation time and scrap

### TYPICAL APPLICATIONS

- · Department stores/retail
- Many types of commercial interiors

NOTE: Not recommended for areas requiring acoustical performance

### **COLOR**



### **FACE VIEWS**







Ledges II panel

### **DETAILS**





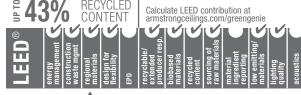




- 1. Ledges® I Flush Tegular
- 2. Ledges II Flush Tegular
- 3. Ledges I with Prelude 15/16" suspension system
- 4. Ledges II with Suprafine® 9/16" suspension system

# **LEDGES®**

Tegular smooth texture



LOCATION DEPENDENT

**VISUAL SELECTION** PERFORMANCE SELECTION Dots represent high level of performance. \$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Clas Acou	ssified stics	n Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Durability	Recycled Content	Recycle Program	Warranty
LEDGES	B													
15/16" Flush Tegular	3	8011	24 x 24 x 3/4" <b>H</b>	N/A	35 •	_	Class A	0.80	Std	Std	Std	Std	•	1-Yr
9/16" Flush Tegular	<b>11</b> 25	8013	24 x 24 x 3/4"	N/A	35	_	Class A	0.80	Std	Std	Std	Std	•	1-Yr

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS

15/16"







### PHYSICAL DATA

Material

Wet-formed mineral fiber

Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification** 

Type III, Form 2, Pattern J Z Fire Class A

Humidity/Sag Resistance Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

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Insulation Value R Factor - 1.6 (BTU units) R Factor - 0.28 (Watts units)

1-Year Limited Warranty Details at armstrongceilings.com

Weight; Square Feet/Carton 0.90 lbs/SF; 48 SF/ctn

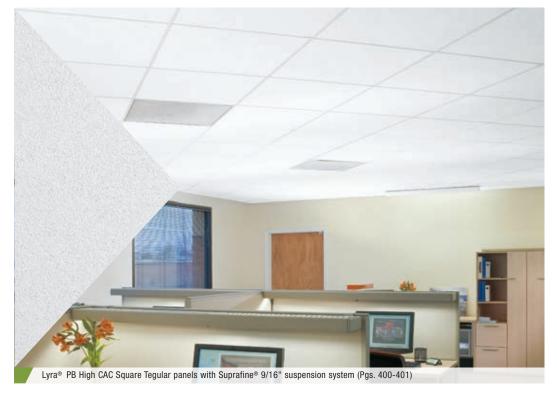
Minimum Order Quantity





smooth texture







These smooth, white, drywall-like visual panels are available in 12 standard sizes.

### **KEY SELECTION ATTRIBUTES**

- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Lyra® PB panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- · All items are manufactured with a plant-based binder
- · Smooth drywall-like ceiling visual
- · 12 standard panel sizes
- · High acoustics (NRC 0.95, AC up to 200)
- Excellent sound-blocking High CAC item 8732 and 8752
- · Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- · Sag-resistant panels

- · Compatible with the TechZone® Ceiling Systems (pgs. 337-344)
- · Coordinates with Blizzard White suspension system and Axiom® trim
- · Specials capability for non-standard sizes
- Product can be recycled through the Armstrong® Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- · Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Classrooms
- · Corridors
- · Lobbies/reception areas
- · Department stores/retail

# **COLOR**





Made-to-order Sherwin-Williams® Colors Available

NOTE: Custom colors not available on Lyra® PB High CAC panels

### **DETAILS**



Lyra® PB Square Lay-in

with Plant-based Binder Square Lay-in smooth texture

VISUAL SELECTION



Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems



PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. I Pgs. 407 armstrong com/catdv	r-411 Item ceilings.No.	Dimensions (Inches)	 Acou	ssified istics + CAC =	Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag	Certified Low VOC Emissions	Wash	mpact	N Scratch	Soil	Recycled Content	Recycle Program	30-Yr
YRA® v	with Plai	nt-based Bin	der High CAC	 						Bio- Block	Humi- Guard+			— Dura	bility —				
5/16" quare ay-in	1	🥖 8732РВ	24 x 24 x 1-3/4"	0.95* •	42* •	BEST	200	Class A	0.88	•	•	•	•	-	•	•	•	•	•
(	1 @	) =	24 x 48 x 1-3/4"	0.95*	44*	BEST	200	Class A	0.88	•	•	•	•	-	•	•	•	•	•
	ith Plant	-based Bind		 															
5/16" quare	1	<b>Ø</b> 8372PB	24 x 24 x 1"	0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
5/16" f quare ay-in j	1	🥖 8373РВ	24 x 48 x 1"	0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	-
(	1	<b>→</b> 8450PB	24 x 72 x 1"	0.95*	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1	ø 8452PB	30 x 30 x 1"	0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1	ø 8453PB	30 x 60 x 1"	0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1	🥖 8370РВ	48 x 48 x 1"	0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1, 23	🥖 8334РВ	4 x 48 x 1"	N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1, 23	🥖 8335РВ	4 x 60 x 1"	N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1, 23	🥖 8336РВ	6 x 48 x 1"	N/A	N/A	_	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	
	1, 23	🥖 8337РВ	6 x 60 x 1"	N/A	N/A	_	N/A	Class	0.88	•	•	•	•	•	•	•	•	•	

- GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) \* These items are not UL classified.

### ACCESSORIES (must be ordered separately)

435



Stabilizer Clip (3/4" & 1")

Recommended for panels 60" and greater in length

NOTE: Panels 60" up to 96" - One clip near mid-point of each long edge. Panels 96" and over - Two clips at 1/3 points of each long edge.



(For installations with the panel resting on the wall molding)

### SUSPENSION SYSTEMS

15/16"



### PHYSICAL DATA

Material
Lyra® PB: Fiberglass with acoustically transparent
membrane
CAC: Composite of fiberglass with

Lyra PB High CAC: Composite of fiberglass with acoustically transparent membrane and wet-formed mineral fiber

### Surface Finish

Acoustically transparent membrane with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled – excludes item 8732 and 8752).

### ASTM E1264 Classification

Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

> TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: lvra) BPCS-4796-517

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title
24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

### **High Recycled Content**

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### **Acoustical Details**

A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770. Excludes Lyra PB High CAC.

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### Insulation Value

INSUITATION VALUE Lyra: R Factor – 4.4 (BTU units); R Factor – 0.76 (Watts units) Lyra High CAC: R Factor – 5.38 (BTU units); R Factor - 0.95 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
8372, 8373 – 0.44 lbs/SF; 96 SF/ctn
8370 – 0.44 lbs/SF; 96 SF/ctn
8450 – 0.46 lbs/SF; 72 SF/ctn
8452 – 0.46 lbs/SF; 75 SF/ctn
8452 – 0.46 lbs/SF; 75 SF/ctn
8453 – 0.44 lbs/SF; 30 SF/ctn
8336 – 0.44 lbs/SF; 30 SF/ctn
8337 – 0.44 lbs/SF; 30 SF/ctn
8334 – 0.44 lbs/SF; 16 SF/ctn
8335 – 0.44 lbs/SF; 24 SF/ctn
8732, 8752 – 1.77 lbs/SF; 24 SF/ctn





Tegular smooth texture









These smooth, white, drywall-like visual panels are available in 28 standard sizes.

### **KEY SELECTION ATTRIBUTES**

- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Lyra® PB panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- · All items are manufactured with a plant-based binder
- · Smooth drywall-like ceiling visual
- · 28 standard panel sizes
- · High acoustics (NRC 0.95, AC up to 200)
- · Excellent sound-blocking High CAC
- · Washable, Impact-resistant. Scratch-resistant, Soil-resistant
- · Sag-resistant panels

- · Product can be recycled through the Armstrong® Ceilings Recycling Program
- · Compatible with the TechZone® Ceiling Systems (pgs. 311-318)
- · Coordinates with Blizzard White suspension system and Axiom® trim
- · Specials capability for non-standard sizes
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- · Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Classrooms
- · Corridors
- · Lobbies/reception areas
- · Department stores/retail

# **COLOR**



White (WH)



Made-to-order Sherwin-Williams® Colors Available

NOTE: Custom colors not available on Lyra® PB High CAC panels

### **DETAILS** (Other Suspension Systems compatible. Refer to listing on page 274, 276.)









- 1. Lyra® PB Square Tegular
- 2. Lyra PB Tegular with Suprafine  $\ensuremath{^{\circledcirc}}$  9/16" suspension system and Blizzard White finish
- 3. Lyra PB Tegular with Silhouette® XL® 9/16" suspension system with 1/4" or 1/8" reveal and Blizzard White finish
- 4. Lyra PB Tegular with Interlude® XL® suspension system





with Plant-based Binder Tegular

smooth texture

VISUAL SELECTION

Declare<sup>sм</sup> BASED Livina Buildina Challenge Compliant





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PERFORMANCE SELECTION Dots represent high level of performance

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Edge Profile	1 90. 407 411	Item No.	Dimensions (Inches)		UL Cla	ssified ustics	Total   Acoustics	Articulatio   Class	Fire Performance	Light Reflect	Anti-Molc & Mildew	Sag Resist	Certified Low VOC Emission	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
FIUIIIC	armstrongceilings. com/catdwgs	NU.	(IIICIICS)		NRC	+ ČAC =	= NRC CAC	AC =	₽ Ę	<b>9</b>	<b>®</b>	*	<u>8</u> 8		<b>®</b> /^\	<b>✓</b>	<i>∞</i> ∴.	<u>8</u> S		30 Wa
LYRA® v	vith Plant-base	ed Bind	er High CAC								Bio- Block	Humi- Guard+			— Dura	bility —				
15/16" Square Tegular	8	8730PB	24 x 24 x 1-3/4"		0.95*	42*	BEST	200	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	8 😥 🥖	8751PB	24 x 48 x 1-3/4"		0.95*	44* •	BEST	200	Class A	0.88	•	•	•	•	•	•	•	•	•	•
9/16" Square Tegular	26, 43, 47, <b>/</b> 51, 55	8731PB	24 x 24 x 1-3/4"		0.95*	42* •	BEST	200	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, <b>(a)</b> 43, 47, 51, 55	8748PB	24 x 48 x 1-3/4"		0.95*	44* •	BEST	200	Class A	0.88	•	•	•	•	•	•	•	•	•	•
		8749PB	24 x 60 x 1-3/4"		0.95*	45* •	BEST	200	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, (ey) 43, 47, 51, 55		30 x 30 x 1-3/4"		0.95*	44*	BEST	200	Class A	0.88	•	•	•	•	•	•	•	•	•	•
15/16"	ith Plant-base		<b>r</b> 24 x 24 x 1"		0.95	N/A		190	Class	0.88										
Square	0	030UPB	24 X 24 X I	П	0.95	N/A	_	•	A	0.00	•	•	•	•	•	•	•	•	•	•
Tegular	8	8352PB	24 x 48 x 1"		0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	8	8355PB	48 x 48 x 1"		0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
9/16" Square	26, 43, 47, <b>/</b> 51,55	8344PB	4 x 48 x 1"		N/A	N/A	_	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
Tegular	26, 43, 47, <b>/</b> 51,55	8345PB	4 x 60 x 1"		N/A	N/A	_	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, 47, <b>/</b> 51,55	8346PB	6 x 48 x 1"		N/A	N/A	-	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, 47, <b>/</b> 51,55	8347PB	6 x 60 x 1"		N/A	N/A	-	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### ACCESSORIES (must be ordered separately)

435



Stabilizer Clip (3/4" & 1")

Recommended for panels 60" and greater in length

NOTE: Panels 60" up to 96" - One clip near mid-point of each long edge. Panels 96" and over – Two clips at 1/3 points of each long edge.



Spring Border Clip

(For installations with the panel resting on the wall molding)

### SUSPENSION SYSTEMS















\* Sonata can not be used with Lyra High CAC 24" x 60" panels

### PHYSICAL DATA

Material Lyra® PB: Fiberglass with acoustically transparent membrane Lyra PB High CAC: Composite of fiberglass with

acoustically transparent membrane and wet-formed mineral fiber.

### Surface Finish

Acoustically transparent membrane with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled excludes items 8730, 8731 8751, 8748, 8749, and 8750).

# ASTM E1264 Classification Type XII, Form 2, Pattern E

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended

TechLine 877 276-7876

armstrongceilings.com/commercial

for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® resist the growth of mold and mildew.

### VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### **High Recycled Content**

rigin recycled content
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### **Acoustical Details**

A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770. Excludes Lyra PB High CAC.

Insulation Value Lyra: R Factor – 4.4 (BTU units); R Factor – 0.76 (Watts units) Lyra High CAC: R Factor – 5.38 (BTU units); R Factor – 0.95 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

Weight, Square Feetbratton 3860, 8352 – 0.46 lbs/SF; 96 SF/ctn 8355 – 0.46 lbs/SF; 96 SF/ctn 8346 – 0.44 lbs/SF; 24 SF/ctn 8347 – 0.44 lbs/SF; 30 SF/ctn 8344 – 0.44 lbs/SF; 16 SF/ctn 8345 – 0.44 lbs/SF; 20 SF/ctn

8730, 8731, 8751, 8748, 8749, 8750 – 1.77 lbs/SF; 24 SF/ctn



GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

<sup>\*</sup> These items are not UL classified.

# LYRA® with Plant-based Binder LYRA® High CAC with Plant-based Binder

Tegular

smooth texture



High Performance Sustainable Ceiling Systems



Calculate LEED contribution at armstrongceilings.com/greengenie

### PERFORMANCE SELECTION

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VISUAL	SELECTION			PERF0F	RMANG	JE SELI			s repres	ent high	level of		nance.					\$3	\$\$\$
Edge Profile	Susp. Dwg. Pgs. 407-411 Item armstrongceilings. No. com/catdwgs	Dimensions (Inches)		UL Class Acous	sified tics	II Total Acoustics¹	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	V Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warranty
LYRA® w	rith Plant-based Bir	ider Square 1	egular							Bio- Block	Humi- Guard+			— Dura	ıbility —				
9/16" Square Tegular		12 x 48 x 1"		0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>8379PB</b> 47, 51, 55	12 x 96 x 1"		0.95*	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø 8361PB</b> 47, 51, 55	24 x 24 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø 8357PB</b> 47, 51, 55	24 x 48 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø 8365PB</b> 47, 51, 55	24 x 60 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø 8381PB</b> 47, 51, 55	24 x 72 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø</b> 8382PB 47, 51, 55	24 x 96 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>38461PB</b> 47, 51, 55	28 x 30 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>359PB</b> 47, 51, 55	30 x 30 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	30 x 60 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø 8376PB</b> 47, 51, 55	36 x 36 x 1"		0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>8462PB</b> 47, 51, 55	42 x 48 x 1"		0.95*	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.



GODD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

\* These items are not UL classified.

with Plant-based Binder Tegular smooth texture



Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems



VISUAL SELECTION

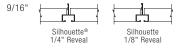
PERFORMANCE SELECTION Dots represent high level of performance

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Edge Profile	Susp. Dwg. Pgs. 407-411 Item armstrongcellings. No. (Inches)	UL CI	assified oustics	II Sytal So So Acoustics	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	N Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
LYRA®	with Plant-based Binder Square Tegula	·						Block	Guard+			— Dura	ability —		]		
9/16" Square Tegular	26, 43, <b><i>Ø</i> 8463PB</b> 44 x 48 x 1" 47, 51, 55	0.95 <b>*</b> •	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>Ø 8356PB</b> 48 x 48 x 1" 47, 51, 55	0.95	N/A	_	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
	26, 43, <b>8466PB</b> 56 x 30 x 1"	0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS









\* Sonata can not be used with Lyra High CAC 24" x 60" panels

### PHYSICAL DATA

Lyra® PB: Fiberglass with acoustically transparent membrane

Lyra PB High CAC: Composite of fiberglass with acoustically transparent membrane and wet-formed mineral fiber.

### Surface Finish

Acoustically transparent membrane with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled Excludes items 8379, 8462, and 8463).

## **ASTM E1264 Classification**

Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended
for areas subject to high humidity, up to, but not
including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® resist the growth of mold and mildew.

### **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

High Recycled Content Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value
Lyra: R Factor – 4.4 (BTU units);
R Factor – 0.76 (Watts units)
Lyra High CAC: R Factor – 5.38 (BTU units);
R Factor – 0.95 (Watts units)

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### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

Weight, Square FeetCath (1986), 1986 SF/ctn 8356 - 0.46 lbs/SF; 96 SF/ctn 8377, 8379 - 0.50 lbs/SF; 48 SF/ctn 8361, 8357 - 0.46 lbs/SF; 96 SF/ctn 8365 - 0.50 lbs/SF; 100 SF/ctn 8381 - 0.50 lbs/SF; 96 SF/ctn 8382 - 0.50 lbs/SF; 96 SF/ctn 8382 - 0.50 lbs/SF; 96 SF/ctn 6352 - 0.30 lis/Sr, 96 57/5 SF/ctn 8359, 8376 - 0.46 lbs/SF; 75 SF/ctn 8365 - 0.46 lbs/SF; 100 SF/ctn 8461, 8466 - 0.44 lbs/SF; 70 SF/ctn 8462 - 0.44 lbs/SF; 112 SF/ctn 8463 - 0.44 lbs/SF; 117 SF/ctn



<sup>\*</sup> This item is not UL classified



### **Concealed Suspension** smooth texture





Smooth, white drywall-like visual with a fully concealed suspension system, creates a monolithic look with accessibility.

### **KEY SELECTION ATTRIBUTES**

- · Large format acoustical panels
- · Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Noise Reduction and Articulation Class (NRC 0.90, AC up to 190)
- Smooth, clean, durable finish Washable, Scratch-resistant, Soil-resistant
- · Energy-saving, high light-reflective finish
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- Renovation installs on existing 15/16" suspension system
- · Open plan office areas
- Auditoriums
- · Areas with limited plenum depth
- · Areas with indirect lighting



White (WH)

Made-to-order Sherwin-Williams® Colors Available

### **DETAILS**





- 1. Lyra® Concealed
- 2. Lyra Concealed with Prelude® XL® 15/16" suspension system



# LYRA® Concealed

### Concealed Suspension smooth texture

### VISUAL SELECTION

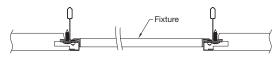
### PERFORMANCE SELECTION Dots represent high level of performance

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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)		(i) lassifie oustics + CA		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash		Soil	Recycled	Recycle Program	30-Yr Warranty
LYRA® Conc	ealed										Block	Guard+		<u> </u>	Durabilit	у ——			
Quick Kerf™	106	8430	30 x 30 x 7/8"	0.90	-	-	-	190	Class A	0.88	•	•	-	•	•	•	•	•	•
Edge	106	8433	24 x 48 x 7/8"	0.90	-	-	-	190	Class A	0.88	•	•	-	•	•	•	•	•	•
Non-support Edge	106	8431	24 x 72 x 7/8"	0.90	-	-	-	190	Class A	0.88	•	•	-	•	•	•	•	•	•
	106	8432	24 x 96 x 7/8"	0.90	-	-	-	190	Class A	0.88	•	•	-	•	•	•	•	•	•
	106	8434	48 x 48 x 7/8"	0.90	-	-	-	190	Class A	0.88	•	•	-	•	•	•	•	•	•
	106	Other sizes	W: 4" - 30" / L: 12" - 96" W: >30" - 48" / L: 12" - 48" 7/8" Thick	N/A	N.	'A	-	N/A	Class A	0.88	•	•	-	•	•	•	•	•	•

ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### CONCEALED - FIXTURE TRIMS



### **FIXTURE TRIM**

Item No.	Length	Pcs	Color
FTP4ZW	4" Concealed Fixture Kit	24	Blizzard White
FTP6ZW	6" Concealed Fixture Kit	24	Blizzard White
FTP24ZW	24" Concealed Fixture Kit	24	Blizzard White
FTP48ZW	48" Concealed Fixture Kit	24	Blizzard White
FTP96ZW	96" Concealed Fixture Kit	24	Blizzard White
Other Size Fixture Trims	4" to 96" Trim Pieces	-	Blizzard White (custom colors available)

Fixture trim kits include 24 straight trim pieces, 24 corner brackets, screws, and pop rivets. Example: For a space with 24" x 48" fixtures, order (1) 24" kit FTP24ZW and (1) 48" kit FTP48ZW. This will frame (12) 24" x 48" fixtures.

### ACCESSORIES (must be ordered separately)

Item No.



Border Clip, Used for corners and special cutouts

442 A

441



Hold Down Clip

7425 / 7445

24" Stabilizer Bar / 48" Stabilizer Bar

522



Mid-point Clip (Needed for panels over 30" wide)

7870

Anti-Mold/Mildew
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

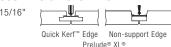
High Recycled Content
Contains greater than 50% total recycled content.
Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

CAC backing may be available as a special order.



Spring Border Clip (For installations with the panel resting on the wall molding)

### SUSPENSION SYSTEMS



### **AXIOM® TRIM DETAIL**



Lyra® Concealed panels with Axiom® Vector® trim for cloud friendly design. Blizzard White color and texture coordinated finish available to complement Lyra ceiling panels.

### PHYSICAL DATA

### Material

Fiberglass with acoustically transparent membrane.

Surface Finish Acoustically transparent membrane with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification Type XII, Form 2, Pattern E Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Design Consideration

Insulation Value R Factor – 3.5 (BTU units) R Factor – 0.62 (Watts units)

Acoustical Details

Use fixture trim kit around all lights, diffusers, and other ceiling penetrations to avoid exposed suspension system and panel edges. Panel sizes less than 24" x 24" are not recommended for full-field installations.

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### Installation Consideration

Lyra® Concealed panels must be installed on a square, level suspension system as tolerance is near zero.

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 8430 - 0.55 lbs/SF; 75 SF/ctn 8431 - 0.55 lbs/SF; 72 SF/ctn 8433, 8432 - 0.55 lbs/SF; 96 SF/ctn 8434 - 0.55 lbs/SF; 64 SF/ctn

Minimum Order Quantity



# MESA™/MESA™ Second Look®

Square Lay-in & Tegular fine texture







Fine-textured visual with good sound absorption and excellent sound-blocking options. Second Look® items offer a scored visual.

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- · Fine-textured visual
- · Excellent sound-blocking option
- USDA Certified Biobased Product  $-\ 100\%$
- Non-directional visual reduces installation time and scrap (excludes Second Look® items)
- Smaller size panels available (1 carton min. order). Info: armstrongceilings.com/specials
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- Offices/conference rooms
- Healthcare assists in addressing HIPAA, HCAHPS and FGI acoustical requirements (excludes items 680 and 683)
- · Schools/classrooms
- Corridors
- · Lobbies/reception areas
- · Computer rooms

### **COLOR**



### **FACE VIEW**



Mesa Second Look® II panel - Scoring created nominal 24" x 24" squares

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 280.)





- 1. Mesa
- 2. Mesa with Suprafine® 9/16" suspension system



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# MESA™/MESA™ Second Look®

Square Lay-in & Tegular fine texture

PERFORMANCE SELECTION Dots represent high level of performance.

RECYCLED CONTENT

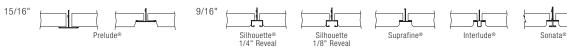
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### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions		UL Cla	ssified stics	Total   Acoustics	Fire Performance	Light   Reflect	Anti-Mold & Mildew	Sag   Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle   Program	30-Yr Warranty
Profile	com/catdwgs	NO.	(Inches)		NRC -	+ ÇAC :	= NRC CAC	Pe Fi	•	<b>®</b>	*	Ş	<b>S</b>	<u>8</u> 5	4	30- Wa
MESA™										Bio- Block	Humi- Guard+		Durability -			
15/16" Square	1	680	24 x 24 x 3/4"		0.60	33	-	Class A	0.85	•	•	•	•	•	•	•
Lay-in	1	683	24 x 48 x 3/4"		0.60	33	-	Class A	0.85	•	•	•	•	•	•	•
,	1	Other Size Panels	W: 12" - 30" / L: 3/4" Thick	18" – 72"	N/A	N/A	-	Class A	0.85	•	•	•	•	•	•	•
15/16" Angled Tegular	13	681	24 x 24 x 3/4"		0.60	35	G00D	Class A	0.85	•	•	•	•	•	•	•
	13	686	24 x 24 x 3/4"		0.60	40	G00D	Class A	0.85	•	•	•	•	•	•	•
	13	684	24 x 48 x 3/4"		0.60	35	G00D	Class A	0.85	•	•	•	•	Std	•	•
	13	Other Size Panels	W: 12" - 30" / L: 3/4" Thick	18" – 72"	N/A	N/A	-	Class A	0.85	•	•	•	•	Std	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	682	24 x 24 x 3/4"		0.60	35	G00D	Class A	0.85	•	•	•	•	•	•	•
Togular	29, 44, 48, 52, 56	687	24 x 24 x 3/4"		0.60	40	G00D	Class A	0.85	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	685	24 x 48 x 3/4"		0.60	35	G00D	Class A	0.85	•	•	•	•	Std	•	•
	29, 44, 48, 52, 56	Other Size Panels	W: 12" - 30" / L: 3/4" Thick	18" – 72"	N/A	N/A	-	Class A	0.85	•	•	•	•	Std	•	•
MESA™ S	Second Look® I	I														
15/16" Angled Tegular	11	688	24 x 48 x 3/4"		0.60	35	GOOD	Class A	0.85	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS



### PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

# ASTM E1264 Classification

Type III, Form 2, Pattern C E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### **Acoustical Performance**

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### **High Recycled Content**

Total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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Insulation Value R Factor – 1.6 (BTU units) R Factor – 0.28 (Watts units)

**Design Consideration**Do not mix Mesa™ Second Look® panels with Standard Mesa panels in the same room.

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 680, 681, 682 - 1.02 lbs/SF; 48 SF/ctn 683, 684, 685 - 1.02 lbs/SF; 64 SF/ctn 686, 687 - 1.40 lbs/SF; 48 SF/ctn 688 - 1.02 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton, excludes other size panels

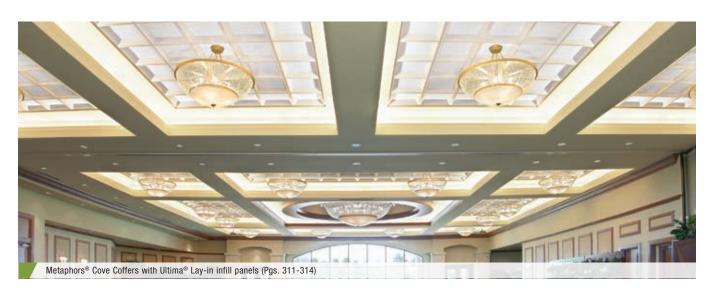
### Metric Items Available

680M, 683M, 682M, 681M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



### **METAPHORS®**

Crown, Cove, Convex, Bead & Linear coffers and infill panels



Metaphors® coffers are available in over 700 standard colors, designs, and acoustical combinations.

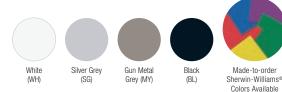
### **KEY SELECTION ATTRIBUTES**

- · Five different coffer designs in four standard colors
- · Infill panels available in Infusions®, MetalWorks™, MetalWorks Tin, WoodWorks®, and Ultima® visuals
- · Enhance acoustics with MetalWorks perforated or Ultima infill panels (NRC 0.70-0.90)
- · Custom options:
  - Coffers available in coordinating custom colors
- Suspension systems available in coordinating custom colors
- For details on custom infill panels and/or coffer colors, contact TechLine at 1 877 ARMSTRONG

### TYPICAL APPLICATIONS

- · Retail
- · Hospitality
- · Assisted Living

### COLORS - COFFERS Due to printing limitations, shade may vary from actual product.



Sherwin-Williams® colors available on coffers and suspension systems. Contact TechLine at 1-877-276-7876

### METAPHORS COFFERS STYLES



- 1. Metaphors® Crown
- 2. Metaphors® Cove
- 3. Metaphors® Convex
- 4. Metaphors® Bead
- 5. Metaphors® Linear

Coffers with Ultima 18" x 18" infill panel, Suprafine 9/16" suspension system (Pgs. 399-400)

## METAPHORS INFILL PANEL SELECTION Due to printing limitations, shade may vary from actual product.

# Infusions®



Clear Arbor



Blue Arbor



Refined Kiwi



Refined Reef (TRR)



Refined Lagoon (TRL)



(TRP)

Refined Plum Refined Tangerine (TRT)



Spun Copper



Linen Gold





White (WH)

MetalWorks™



Silver Grey (SG)



Gun Metal



Microperforated<sup>3</sup>

MetalWorks™ Tin



Item 6613 in White



Item 6613 in Bare Steel (TNA)



Item 6613 in Lacquered Steel (TLS)



Item 6614 in White (TWH)



Item 6614 Item 6614 in in Bare Steel Lacquered (TNA) Steel (TLS)



Extra Microperforated\*



Item 6615 in White (TWH)



(TNA)

Item 6615 in Bare Steel

Item 6615 in Lacquered Steel (TLS)



Item 6616



in White (TWH)



Item 6616



in Bare Steel (TNA)



in Lacquered

Steel (TLS)

(TWH) WoodWorks®



Bamboo Native Bamboo Patina



Natural

Variations

Maple (NMP)

Natural

Variations Light

Cherry (NLC)



Natural

Variations Dark

Cherry (NDC)



Walnut

(NWN)





Light Oak

(NOK)



Espresso (NWE)



Ultima®

White (WH)





TechLine 877 276-7876 armstrongceilings.com/commercial

### **METAPHORS®**

Crown, Cove, Convex, Bead & Linear coffers and infill panels

### VISUAL SELECTION

0% = 5	92% STANKE	RECYCLED CONTENT	Calculate LEE	D contribution at ings.com/greengenie
	energy management construction waste mgmt regional materials design for	flexibility  EPD recyclable/ extended producer resp.	biobased materials recycled content sourcing of raw materials	material ingredient reporting low emitting/ materials lighting quality
	A LOCATION	DEDENDENT		

PERFORMANCE

Dots represent high

level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No. ◆	Description	Dimensions (Inches)	Fire Performance	Recycled Content	Recycle Program	Warranty
METAPHORS®	offers Coffers							
9/16" or 15/16"	78, 83	5726	Crown Coffer	24 x 24 x 3"	Class A	Std	_	1-Yr
9/16" or 15/16"	79, 84	5727	Cove Coffer	24 x 24 x 3"	Class A	Std	_	1-Yr
9/16" or 15/16"	80, 85	5725	Convex Coffer	24 x 24 x 1.94"	Class A	Std	-	1-Yr
9/16" or 15/16"	82, 87	5728	Bead Coffer	24 x 24 x 1.125"	Class A	Std	-	1-Yr
9/16" or 15/16"	81, 86	5729	Linear Coffer	24 x 24 x 2"	Class A	Std	-	1-Yr
◆ Add 2-letter color	r suffix to item number	r when specifying o	or ordering (e.g., 5726 <u>S</u> <u>G</u> )	Dimensions	UL Classified Acoustics	Total Acoustics <sup>1</sup>	rmance cle	Recycle Program anty

Edge	Item	Description	Dimensions	UL Clas	sified	Total Acous	Fire Performano	/cle	Recycl Progra	30-Yr Warranty
Profile	No. ◆◆		(Inches)	 NRC +	CAC	= NRC CAC	Fire	Recycle Content		30-Y Warı
METAPHORS In	nfill Panels			UL CI	assified					
Square Lay-in	6541	Infusions® Infill Panel	18 x 18 x 0.125"	N/A	N/A	-	Class A	Std	-	1-Yr
Square Lay-in	6613 6614 6615 6616	MetalWorks <sup>™</sup> Tin Infill Panel Unperforated (B1) MetalWorks Tin Infill Panel Extra Microperforated (B3)	18 x 18 x 0.010"	N/A N/A	N/A	-	Class A	Std	-	1-Yr
Square Tegular	6448M1 6448M2	MetalWorks Infill Panel Unperforated (M1) MetalWorks Infill Panel Microperforated (M2)	18 x 18 x 0.021"	N/A N/A	N/A N/A	-	Class A	Std	-	1-Yr
Square Tegular	6447W1	WoodWorks® Infill Panel	18 x 18 x 0.75"	_	N/A	_	Class A	•	-	1-Yr
Beveled Tegular	1918	Ultima® Infill Panel	18 x 18 x 0.75"	N/A	N/A	-	Class A	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS

15/16"\* or 9/16"



Suprafine® suspension system with Crown Coffer



Suprafine suspension system with Cove Coffer



Suprafine suspension system with Convex Coffer







Suprafine suspension system with Linear Coffer

\* 15/16" not shown PHYSICAL DATA

### Material

5725, 5726, 5727, 5728, 5729 – Glass reinforced gypsum coffer; 6541 – Polycarbonate; 6448 – Electrogalvanized steel; 6613, 6614, 6615, 6616 – Steel; 6447 – Fire retardant particle board with face-cut veneers, California Air Resources Board (CARB) Compliant; 1918 – Wet-formed mineral fiber

### Surface Finish

Surface Finish
6541 – Smooth; 6448 – Factory-applied
powder-coated finish (post-coated); 6614, 6615,
6616 – White, factory-applied powder-coated finish;
Bare Steel, unfinished; Lacquered Steel, factory-applied
lacquered finish; 6447 – Clear or tinted semi-gloss coating; 1918 - DuraBrite® with factory-applied latex paint

### Fire Performance

All items except 6541 – ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**Application Considerations** 

1918 – R Factor 2.2 (BTU units) R Factor 0.39 (Watts units)

systems are present.

Insulation Value

Clear plenum height must be at least 9 inches to accommodate 24" x 24" Metaphors Coffers. Bead profile requires only 5 inches. Coffers are intended for full panel installation only. Do not cut.

6541 – Infusions panels have been tested according to the NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression

ASTM E1264 Classification 6448 – Fire Class A; Unperforated - Type XX, Pattern G; Perforated — Type X, Pattern C; 6613, 6614, 6615, 6616 – Fire Class A; Unperforated — Type XX, Pattern J Z; Perforated — Type XX, Pattern C J Z; 6447 — Composite — Fire Class A; 1918 — Type IV, Form 2, Pattern E, Fire

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### Seismic Restraint

Engineered, tested, and approved for application in all seismic areas

Warranty One (1) year limited warranty. Details at armstrongceilings.com

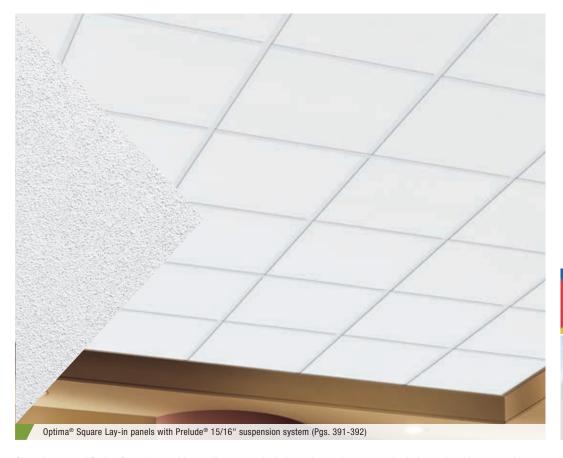
Weight; Square Feet/Carton 5725, 5726, 5727, 5728, 5729 - 2.35 lbs/SF; 20 SF/ctn; 5 pcs/ctn 6541 - 0.8 lbs/SF; 13.5 SF/ctn; 6 pcs/ctn 6448 - 0.89 lbs/SF; 22.5 SF/ctn 6613, 6614, 6615, 6616 - 0.50 lbs/SF; 22.5 SF/ctn 6447 - 2.75 lbs/SF; 22.5 SF/ctn; 10 pcs/ctn 1918 - 1.08 lbs/SF; 22.5 SF/ctn; 10 pcs/ctn

Minimum Order Quantity 4 cartons



<sup>◆◆</sup> Add 2-, 3-, or 5-letter color suffix item number when specifying or ordering (e.g., 6541 <u>T.R.K</u>). For perforated items, include the 2-digit perforation suffix and 3-letter color suffix (e.g., 6448M1 S G, 6613B3 T W H, 6447W1 N M P)







Smooth-textured Optima® panels provide excellent acoustical absorption and more standard-size options than any other texture in the line.

### **KEY SELECTION ATTRIBUTES**

- Outstanding acoustical performance for open plan areas, both Articulation Class (180-200) and NRC (0.90-1.00)
- Items with PB suffix are manufactured with a plant-based binder
- Optima® PB panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish –
  Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- · Energy-saving high light-reflective finish
- · Non-directional visual reduces scrap and installation time
- · Sag-resistant large-size panels
- · Compatible with TechZone® Ceiling Systems (Pgs. 337-344)
- Item 3352 available with Create!™ printed images and patterns, see pages 245-247
- · 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Open plan offices
- Computer rooms
- · Corridors (walls-to-deck)
- Auditoriums
- · Waiting rooms/nurses' stations
- · Areas with indirect lighting

### **COLOR**



(WH)

### **DETAILS**





- 1. Optima® Square Lay-in
- 2. Optima Square Lay-in with Prelude® 15/16" suspension system



# **OPTIMA® OPTIMA®**

VISUAL SELECTION

with Plant-based Binder Square Lay-in fine texture



Declare<sup>sм</sup> Living Building Challenge Compliant PB Suffix Only SUSTAIN High Performance Sustainable Ceiling Systems PB Suffix Only

RECYCLED Calculate LEED contribution at CONTENT armstrongceilings.com/greengenie

PB ONLY

PB ONLY PB ONLY

LOCATION DEPENDENT PERFORMANCE SELECTION Dots represent high level of performance

Ф	Ф	Ф	Ф
Ψ	Ψ	Ψ	Φ

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions (Inches)		UL Class Acoust		±2° 0	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
com/catdwgs  OPTIMA®					NRC +	CAC =	4	<u> </u>	ша	ş	Bio-	Humi- Guard+	٥>	<b>E</b>	— Dural	bility —	<b>.</b> Ω:	E 0		ლ ≶
15/16" Square Lay-in	1	1462	4 x 48 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1	1463	4 x 60 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1	1400	6 x 48 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1	1404	6 x 60 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1	3156	20 x 60 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1	3150 3150PB	24 x 24 x 3/4"		0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1	3152 3152PB	24 x 24 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1	3352	24 x 24 x 1"		0.90	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	-	•
	1	3159	24 x 24 x 1-1/2'	' <b>□</b>	1.00	N/A	_	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification.

### SUSPENSION SYSTEMS

15/16" Prelude®

### Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel.

### PHYSICAL DATA

Material 3150, 3156, 3159, 1462, 1463, 1400, 1404, 3152 – Fiberglass with DuraBrite® acoustically transparent membrane 3352 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

### Surface Finish

DuraBrite with factory-applied latex paint

Fire Performance ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification Type XII, Form 2, Pattern E

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

 $\begin{array}{ll} \textbf{Mold/Mildew Protection} \\ \text{Ceiling panels with BioBlock}^{\circledcirc} \text{ resist the growth} \\ \text{of mold and mildew}. \end{array}$ 

### VOC Emissions

(PB suffix items only)
Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the

quideline for low emissions in LEED. CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/ GBI Green Building Assessment Protocol.

Primary (Embodied) Energy See all LCA information on our EPDs.

### **High Recycled Content**

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Details
Some Items have CAC backing, CAC backing may be
available as a special order. A CAC value of 37 can be
achieved by backloading fiberglass products with item 769 or 770

### Insulation Value

Insulation Value
1400, 1404, 1462, 1463,
3152, 3156, 3352, —
R Factor — 4.0 (BTU units)
R Factor — 0.70 (Watts units)
3150 — R Factor — 3.0 (BTU units)
R Factor — 0.53 (Watts units)
3159 — R Factor — 6.0 (BTU units)
R Factor — 1.05 (Watts units)

**Application Consideration**Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System.
Details at armstrongceilings.com

### Weight; Square Feet/Carton

Weight; Square Feet/Carton 1400 – 0.13 lbs/SF; 24 SF/ctn 1404 – 0.16 lbs/SF; 30 SF/ctn 1462 – 0.44 lbs/SF; 16 SF/ctn 1463 – 0.44 lbs/SF; 120 SF/ctn 3150, 3150PB – 0.44 lbs/SF; 128 SF/ctn 3152, 3152PB – 0.45 lbs/SF; 96 SF/ctn 3156 – 0.47 lbs/SF; 100 SF/ctn 3156 – 0.47 lbs/SF; 100 SF/ctn

### Minimum Order Quantity

1 carton, excludes other size panels

### Metric Items Available

3150M, 3152M, 3156M, 3159M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



# **OPTIMA® OPTIMA®**

with Plant-based Binder Square Lay-in fine texture



Declare

Living Building
Challenge Compliant
PB Suffix Only



Calculate LEED contribution at armstrongceilings.com/greengenie

PB ONLY PB ONLY

### **VISUAL SELECTION**

PERFORMANCE SELECTION Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 407-411 Item armstrongceilings. No. com/catdwgs	Dimensions (Inches)	UL Cla Acou	ssified estics + CAC =	II Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	<b>√</b> Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warranty
OPTIM	Δ®								Bio-	Humi- Guard+			_ Dura	bility —				
15/16" Square Lay-in		24 x 48 x 3/4"	0.90	N/A	_	180	Class A	0.90	•	•	-	•	• Dura	•	•	•	•	•
	1 3153	24 x 48 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	1 3353	24 x 48 x 1"	0.90	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	_	•
	1 <b>3155</b>	24 x 48 x 1-1/2"	1.00	N/A	-	200	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1 <b>3356</b>	24 x 48 x 1-1/2"	0.95	26	-	200	Class A	0.90	•	•	_	•	•	•	•	•	_	•
	1 <b>3164</b>	24 x 60 x 3/4"	0.90	N/A	-	180	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1 <b>3161</b>	24 x 72 x 3/4"	0.90	N/A	-	180	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1 <b>3162</b>	24 x 96 x 3/4"	0.90	N/A	-	180	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1 <b>3158</b>	30 x 30 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1 <b>3157</b>	30 x 60 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	1 3160 3160PB	48 x 48 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1 <b>3154</b>	48 x 96 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification.



# П W ERG|

# **OPTIMA® OPTIMA®**

with Plant-based Binder Square Lay-in fine texture



Other Size W: 4" - 42" / L: 4" - 120" Panels W: 4" - 48" / L: 4" - 114"

1-1/2" Thick

Declare<sup>s™</sup> Living Building Challenge Compliant PB Suffix Only

N/A

N/A

SUSTAIN High Performance Sustainable Ceiling Systems PB Suffix Only

ш LOCATION DEPENDENT

PB ONLY PB ONLY \$\$\$\$

### VISUAL SELECTION

Edge

Profile

15/16

Square

Lay-in

**OPTIMA®** 

PERFORMANCE SELECTION Dots represent high level of performance

Class 0.90

Articulation Class Anti-Mold & Mildew Certified Low VOC Emissions (U) Fire Performance Recycle Program Light Reflect Scratch Total Acoustics¹ Sag Resist **UL Classified** Wash Susp. Dwg. Recycled Content 30-Yr Warranty Soil Acoustics Pgs. 407-411 Item **Dimensions** armstrongceilings. No. (Inches) CAC Bio-Block Humi-Guard-FastSize™ W: 4" - 48" / L: 4" - 120" N/A N/A N/A Class 0.90 **Panels** 1" Thick Α Other Size W: 4" - 24" / L: 4" - 96"N/A N/A N/A Class 0.90 3/4" Thick

> N/A Α

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) Optima items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification

### SUSPENSION SYSTEMS

15/16" Prelude®

### Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel.

### PHYSICAL DATA

3153, 3155, 3158 – Fiberglass with DuraBrite® acoustically transparent membrane 3353, 3356 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

### Surface Finish

DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

### **ASTM E1264 Classification**

Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications

### Mold/Mildew Protection

Ceiling panels with BioBlock® resist the growth of mold and mildew.

### **VOC Emissions**

### (PB suffix items only)

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title

24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Primary (Embodied) Energy See all LCA information on our EPDs.

### **High Recycled Content**

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Acoustical Details

Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

### Insulation Value

Insulation Value
3153, 3158, 3353, 3154, 3160, 3157 –
R Factor – 4.0 (BTU units)
R Factor – 0.70 (Watts units)
3151, 3161, 3162, 3164 –
R Factor – 3.0 (BTU units)
R Factor – 0.53 (Watts units) 3155, 3356 – R Factor – 6.0 (BTU units) R Factor – 1.05 (Watts units)

**Application Consideration** Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System.

### Details at armstrongceilings.com

**Weight; Square Feet/Carton** 3151, 3151PB – 0.44 lbs/SF; 128 SF/ctn 3153, 3153PB, 3160, 3160PB – 0.45 lbs/SF; 96 SF/ctn

3153, 3159PB, 3160, 3160PB - 0.45 3155, 3356 - 0.61 lbs/SF; 64 SF/ctn 3158 - 0.47 lbs/SF; 75 SF/ctn 3353 - 0.46 lbs/SF; 75 SF/ctn 3154 - 0.45 lbs/SF; 128 SF/ctn 3157 - 0.56 lbs/SF; 128 SF/ctn 3167 - 0.43 lbs/SF; 96 SF/ctn 3164 - 0.43 lbs/SF; 100 SF/ctn 3162 - 0.42 lbs/SF; 128 SF/ctn

### Minimum Order Quantity

1 carton, excludes other size panels

### Metric Items Available

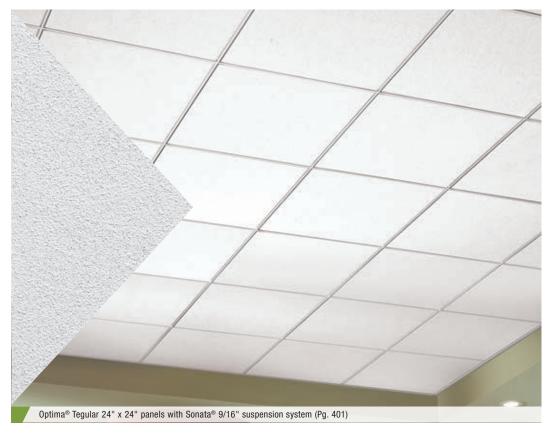
3151M, 3153M, 3154M, 3155M, 3158M, 3160M, 3353M, 3356M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details

LEED® is a registered trademark of the U.S. Green Building Council Declare<sup>™</sup> is a service mark of The International Living Future Institute UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America



# **OPTIMA®** OPTIMA® with Plant-based Binder

Tegular fine texture





Smooth-textured panels provide excellent acoustical absorption and the most standard sizes of any Armstrong Ceilings product.

### **KEY SELECTION ATTRIBUTES**

- · Outstanding acoustical performance for open plan areas, both Articulation Class (180-200) and NRC (0.90-1.00)
- Optima<sup>®</sup> PB panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish -Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- · Energy-saving high light-reflective finish
- Non-directional visual reduces scrap and installation time
- · Items with PB suffix are manufactured with a plant-based binder
- · Sag-resistant large-size panels
- · Compatible with TechZone® Ceiling Systems (Pgs. 337-340)
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- Fast Size<sup>™</sup> items available with quick

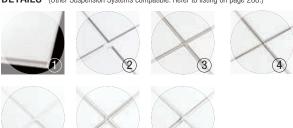
### TYPICAL APPLICATIONS

- · Open plan offices
- · Computer rooms
- · Corridors (walls-to-deck)
- · Auditoriums
- · Waiting rooms/nurses' stations assists in addressing HIPAA and FGI acoustical requirements
- · Areas with indirect lighting

### COLOR



### **DETAILS** (Other Suspension Systems compatible. Refer to listing on page 288.)



- 1. Optima® Square Tegular
- 2. Optima Tegular with Prelude® 15/16" suspension system
- 3. Optima Tegular with Interlude® XL® HRC 9/16" suspension system
- 4. Optima Tegular with Silhouette® 9/16" suspension system with 1/8" reveal
- 5. Suprafine® ML, XL®, and XL® HRC with Blizzard White finish
- 6. Silhouette® XL® 1/4" and 1/8" reveal with Blizzard White finish
- 7. Interlude® XL® HRC with Blizzard White finish



# **OPTIMA® OPTIMA®**

VISUAL SELECTION

with Plant-based Binder Tegular fine texture



Declare<sup>sм</sup> Living Building Challenge Compliant PB Suffix Only

SUSTAIN High Performance Sustainable Ceiling Systems PB Suffix Only

CONTENT

PB ONLY

PB ONLY PB ONLY

PERFORMANCE SELECTION Dots represent high level of performance

RECYCLED

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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.		Dimensions (Inches)		UL C	(L) lassified oustics	_	Total Acoustics¹	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
	com/catdwgs		()		NRC	+ CAC	=	P P	AC =	E &	Ş	Bio-	*	30		<b>6</b> /^\	<u></u>	<del>.</del> ∴	200	43	30
OPTIM	A® Tegular											Block	Humi- Guard+			— Dura	bility —				
15/16" Square	8	1402	6 x 48 x 1"		N/A	N/A		-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
Tegular	8	1406	6 x 60 x 1"		N/A	N/A		-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3264	12 x 24 x 1"		0.95*	N/A		-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3278	20 x 60 x 1"		0.95*	N/A		-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3250 3250PB	24 x 24 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3354	24 x 24 x 1"		0.90	26		-	200	Class A	0.90	•	•	_	•	•	•	•	•	-	•
	8	3253	24 x 24 x 1-1/	2"	1.00	N/A		-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3252 3252PB	24 x 48 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3281	24 x 72 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8	3282	24 x 96 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	8	3258	30 x 30 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	8	3286	30 x 60 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	8	3255 3255PB	48 x 48 x 1"		0.95	N/A		-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	8 <b>FS</b>	FastSize <sup>®</sup>	™ W: 4" – 48" / I 1" Thick	L: 4" – 120"	N/A	N/A		-	N/A	Class	0.90	•	•	-	•	•	•	•	•	•	•
	8	Other Size Panels	W: 4" - 36" / I W: 4" - 42" / I W: 4" - 48" / I 1-1/2" Thick	L: 4" - 102"	N/A	N/A		-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	1410	4 x 48 x 1"		N/A	N/A		-	N/A	Class A	0.90	•	•	_	•	•	•	•	•	•	•
Tegular	26, 43, 47, 51, 55	1411	4 x 60 x 1"		N/A	N/A		-	N/A	Class A	0.90	•	•	_	•	•	•	•	•	•	•
Ш (	26, 43, 47,	1412	6 x 6 x 1"		N/A	N/A		_	N/A	Class	0.90	•	•	-	•	•	•	•	•	•	•

FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) <sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification

### PHYSICAL DATA

Material 3354 - Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing All other items — Fiberglass with DuraBrite acoustically transparent membrane

### Surface Finish

DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification Type XII, Form 2, Pattern E

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions (PB items only)

Third-party certified compliant with California

TechLine 877 276-7876 armstrongceilings.com/commercial Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/ GBI Green Building Assessment Protocol

Primary (Embodied) Energy See all LCA information on our EPDs

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Details
Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770.

### Insulation Value

R Factor - 6.0 (BTU units) R Factor – 1.05 (Watts units) 3281, 3282 – R Factor – 3.0 (BTU units) R Factor – 0.53 (Watts units)

# All other items – R Factor – 4.0 (BTU units) R Factor – 0.70 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 1402 - 0.55 lbs/SF; 24 SF/ctn 1406 - 0.55 lbs/SF; 30 SF/ctn 3250, 3250PB, 3252, 3252PB, 3250, 3250PB, 3252, 3252PB, 3282 – 0.55 lbs/SF; 16 SF/ctn 1410 – 0.55 lbs/SF; 16 SF/ctn 1411 – 0.55 lbs/SF; 16 SF/ctn 1412 – 0.55 lbs/SF; 6 SF/ctn 3264 – 0.55 lbs/SF; 6 SF/ctn 3263 – 0.78 lbs/SF; 64 SF/ctn 3253 – 0.78 lbs/SF; 64 SF/ctn 3255, 3255PB – 0.55 lbs/SF; 96 SF/ctn 3278, 3286 – 0.55 lbs/SF; 70 SF/ctn 3278, 3286 – 0.55 lbs/SF; 100 SF/ctn 3281 – 0.55 lbs/SF; 72 SF/ctn 3354 – 0.57 lbs/SF; 72 SF/ctn 3354 – 0.57 lbs/SF; 72 SF/ctn

# Minimum Order Quantity

Metric Items Available 3250M, 3252M, 3253M, 3354M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



<sup>\*</sup> These items are not UL classified.

# **OPTIMA® OPTIMA®**

Tegular

with Plant-based Binder fine texture



Declare

Living Building
Challenge Compliant
PB Suffix Only



Calculate LEED contribution at armstrongceilings.com/greengenie

PERFORMANCE SELECTION Dots represent high level of performance.

PB ONLY PB ONLY \$\$\$\$

# 

VISUAL	. SELECTION			
Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	
OPTIMA	® Tegular			
9/16" Square	26, 43, 47, 51, 55	1413	6 x 12 x 1"	
Tegular	26, 43, 47, 51, 55	1415	6 x 42 x 1"	
	26, 43, 47, 51, 55	1403	6 x 48 x 1"	
	26, 43, 47, 51, 55	1417	6 x 54 x 1"	

SUAL	. SELECTION	ı			PERFUR	INANG	E SELI	בטווע	טע אוע	ots repre	esent niç	ın ievei i	or perro	rmance					φψ	φφι
ge ofile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	ltem No.	Dimensions (Inches)		UL Clas Acous	sified tics CAC =	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	Mpact Impact	Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warrantv
TIMA	® Tegular				_			-		ş	Bio- Block	Humi- Guard+		2.0	— Dura	hility —	locate			
6" Jare	26, 43, 47, 51, 55	1413	6 x 12 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	_	•	•	•	•	•	•	•
ular	26, 43, 47, 51, 55	1415	6 x 42 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
,	26, 43, 47, 51, 55	1403	6 x 48 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	1417	6 x 54 x 1"		N/A	N/A	_	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	1407	6 x 60 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	1409	6 x 96 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3263	12 x 24 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3290	12 x 48 x 1"		0.95	N/A	_	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	1414	12 x 96 x 1"		0.95	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3276	20 x 54 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3266	20 x 56 x 1"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3277	20 x 60 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3279	21 x 24 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3251 3251PB	24 x 24 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3355	24 x 24 x 1"		0.90	26	_	200	Class A	0.90	•	•	-	•	•	•	•	•	-	•
	26, 43, 47, 51, 55	3254	24 x 24 x 1-1/2		1.00	N/A	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3280	24 x 42 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3257 3257PB	24 x 48 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3265 3265PB	24 x 60 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3261 3261PB	24 x 72 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3262 3262PB	24 x 96 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3283	27 x 30 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3268	28 x 30 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3269	28 x 60 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3259	30 x 30 x 1"		0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
- A . L Α -	austica® callia	mala hava	ideal condition!	f		ldaa aast-														

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification.



# **OPTIMA®** OPTIMA®

with Plant-based Binder

Tegular fine texture

VISUAL SELECTION



As Noted

Declare<sup>™</sup> Living Building Challenge Compliant PB Suffix Only

SUSTAIN High Performance Sustainable Ceiling Systems PB Suffix Only



RECYCLED

Calculate LEED contribution at armstrongceilings.com/greengenie

LOCATION DEPENDENT

PB ONLY PB ONLY

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### PERFORMANCE SELECTION Dots represent high level of performance

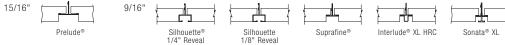
Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions (Inches)	UL Class Acous	sified	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle   Program	30-Yr Warranty
Trome	com/catdwgs	140.	(mones)	NRC +	CAC =	NRC	AC ≘	Pe	<b>9</b>	<b>®</b>	*	38		<b>®</b> ^`	~	<u> </u>	e S		30 Wa
OPTIMA	® Tegular									Bio- Block	Humi- Guard+			— Dura	bility —				
9/16" Square	26, 43, 47, 51, 55	3284	30 x 54 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
Tegular	26, 43, 47, 51, 55	3289	30 x 56 x 1"	0.95	N/A	_	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3285	30 x 60 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3287	42 x 48 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	_	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3288	44 x 48 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3256 3256PB	48 x 48 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	3249	48 x 54 x 1"	0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	FastSize Panels	™ W: 4" – 48" / L: 4" – 120" 1" Thick	N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	Other Size Panels	W: 4" - 36" / L: 4" - 120" W: 4" - 42" / L: 4" - 102" W: 4" - 48" / L: 4" - 90" 1-1/2" Thick	N/A	N/A	_	N/A	Class A	0.90	•	•	_	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

Optima items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification.

FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.)

### SUSPENSION SYSTEMS



### Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel. Available for: Prelude® XL® and XL® HRC, Suprafine ML, XL, and XL HRC, Silhouette® XL® 1/4" and 1/8" Reveal, Interlude® XL® HRC

### ACCESSORIES (not included; ordered separately)

435



Stabilizer Clip (3/4" & 1")

Recommended for panels 60" and greater in length

NOTE: Panels 60" up to 96" - One clip near mid-point of each long edge. Panels 96" and over - Two clips at 1/3 points of each long edge.

### PHYSICAL DATA

Material 3355 — Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing All other items – Fiberglass with DuraBrite acoustically transparent membrane

### Surface Finish

DuraBrite scrim with factory-applied latex paint

Fire Performance ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions (PB items only)

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the

guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/ GBI Green Building Assessment Protocol.

Primary (Embodied) Energy See all LCA information on our EPDs.

### **High Recycled Content**

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

R Factor – 6.0 (BTU units) R Factor – 1.05 (Watts units)

# 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

Weight; Square Feet/Carton 1403 - 0.55 lbs/SF; 24 SF/ctn 1407 - 0.55 lbs/SF; 30 SF/ctn 1409, 3249, 3251, 3251PB, 3257, 3257PB, 3262, 3262PB - 0.55 lbs/SF; 96 SF/ctn 1413 - 0.55 lbs/SF; 12 SF/ctn 1414, 3263, 3290 - 0.55 lbs/SF; 48 SF/ctn 1415 - 0.55 lbs/SF; 21 SF/ctn

1417 – 0.55 lbs/SF; 27 SF/ctn
3254 – 0.78 lbs/SF; 64 SF/ctn
3256 – 0.55 lbs/SF; 96 SF/ctn
3259, 3276 – 0.55 lbs/SF; 75 SF/ctn
3261 – 0.55 lbs/SF; 72 SF/ctn
3265, 3285, 3277 – 0.55 lbs/SF; 100 SF/ctn
3266 – 0.55 lbs/SF; 62.22 SF/ctn
3268 – 0.55 lbs/SF; 62.22 SF/ctn
3269 – 0.55 lbs/SF; 93.33 SF/ctn
3279, 3280 – 0.55 lbs/SF; 84 SF/ctn
3283 – 0.55 lbs/SF; 96.5F/ctn
3284 – 0.55 lbs/SF; 97.5 SF/ctn
3284 – 0.55 lbs/SF; 112 SF/ctn
3287 – 0.55 lbs/SF; 112 SF/ctn
3288 – 0.55 lbs/SF; 112 SF/ctn
3288 – 0.55 lbs/SF; 112 SF/ctn
3289 – 0.40 lbs/SF; 96 SF/ctn
3289 – 0.40 lbs/SF; 93.33 SF/ctn
3251 – 0.45 lbs/SF; 96 SF/ctn

### Minimum Order Quantity

1 carton

**Metric Items Available** 3251M, 3254M, 3256M, 3257M, 3355M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

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Vector® fine texture





Smooth-textured acoustical panel is ideal for projects with limited plenum space: requires about 6" of clear space from the deck.

### **KEY SELECTION ATTRIBUTES**

- 1/4" reveal between acoustical panels results in a monolithic appearance
- Optima<sup>®</sup> PB panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Articulation Class (190) and NRC (0.80-0.90)
- Smooth, clean durable finish Washable Scratch-resistant Soil-resistant
- Energy-saving high light-reflective finish
- Items with PB suffix are manufactured with a plant-based binder
- Item 3901 available in Create!<sup>™</sup> printed images and patterns see pages 245-247
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- Fast Size<sup>™</sup> items available with quick lead times

### TYPICAL APPLICATIONS

- Renovation installs on existing 15/16" suspension
- Open plan offices
- Lobbies
- · Corridors (walls-to-deck)
- · Areas with limited plenum depth
- · Areas with indirect lighting systems
- · Education

# **COLOR**



White (WH)

### **DETAILS**







- 1. Optima® Vector
- 2. Optima Vector with Prelude 15/16" suspension system
- 3. Optima Vector with fixture trim



with Plant-based Binder Vector® fine texture



Declare<sup>s™</sup> Living Building Challenge Compliant PB Suffix Only

and the last

High Performance Sustainable Ceiling Systems PB Suffix Only

Calculate LEED contribution at armstrongceilings.com/greengenie

PB ONLY PB ONLY

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

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Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions		UL Cla Acou	ssified	Total Acoustics <sup>1</sup>	Articulati Class	Fire Performance	Light Reflect	Anti-Mol & Mildev	Sag Resist	Certified Low VOC Emissior	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)		NRC -	- CAC =	Aco	AC C	Fire	•	<b>®</b>	*	Cer				Rec		30- War
OPTIMA® Vec	tor®										Bio- Block	Humi- Guard+			Durabilit	, <u> </u>			
1/4" Reveal with 15/16" Vector	73	1466	6 x 48 x 7/8"		N/A	N/A	_	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•
A - B	73	1467	6 x 96 x 7/8"		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3902*	12 x 24 x 7/8"		N/A	N/A	_	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3903*	12 x 24 x 7/8"		N/A	26	_	N/A	Class A	0.90	•	•	-	•	•	•	•	-	•
	73	3900 3900PB	24 x 24 x 7/8"		0.90	N/A	_	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3901	24 x 24 x 7/8"		0.80	26	-	190	Class A	0.90	•	•	-	•	•	•	•	-	•
	73	3908 3908PB	24 x 48 x 7/8"		0.90	N/A	_	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3906	24 x 72 x 7/8"		0.90	N/A	_	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3907	24 x 96 x 7/8"		0.90	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3904	30 X 30 x 7/8"		0.90	N/A	_	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	73	3905	30 X 30 x 7/8"		0.80	26	-	190	Class A	0.90	•	•	-	•	•	•	•	-	•
	73	3909	48 x 48 x 7/8"		0.90	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	73 <b>FS</b>	FastSize Panels	™W: 4" - 30" / L W: >30" - 48" 7/8" Thick		N/A	N/A	_	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•
1 Total Acoustics	® ceiling panels I	nave an idea	I combination of no	ise reduction					FS	Fast	Size: Fac	ctory-finis	shed, m	ade-to-	order size	es, shipp	oed fast	(1 carto	n min.)

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction

and sound-blocking performance in one product.

\* Items not UL classified for acoustics.

Optima® items with the PB suffix are included in the Sustain™ portfolio and carry Declare™ certification

### SUSPENSION SYSTEMS

15/16"



Prelude<sup>©</sup>

### **VECTOR – FIXTURE TRIMS**

Item No.	Length	Color	Substrate	
5790	12"	White	Extruded PVC	
5791	24"	White	Extruded PVC	
5792	30"	White	Extruded PVC	
5793	48"	White	Extruded PVC	

# ACCESSORIES (must be ordered separately)

Item No. 441

Vector Border Clip (required for installations with the suspension system resting on the wall molding). Primarily used for corners and special cutouts.

442 A



Vector Hold-Down Clip (required for installation)

7425 (24"), 7431 (30"), 7445 (48"), 7461 (60") Stabilizer Bars

522



Mid-point Clip 48" x 48" Vector panels only

7870

Spring Border Clip (For installations with the panel resting on the wall molding)

riberglass with DuraBrite® acoustically transparent membrane 3901, 3903, 3905 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

PHYSICAL DATA

Surface Finish DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled.)

### ASTM E1264 Classification Type XII, Form 2, Pattern E

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: optima)

BPCS-3683-617

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew

the growth of mold and mildew.

VOC Emissions (PB Items Only)

Third-party certified compliant with California

Department of Public Health CDPH/EHLB/Standard Method

Version 1.1, 2010. This standard is the guideline for low
emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/

USGBC/IES Standard 189; ANSI/GBI Green Building

Assessment Protocol.

# Primary (Embodied) Energy See all LCA information on our EPDs.

### **High Recycled Content**

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Details
Some items have CAC backing. CAC backing may be available as a special order.

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Insulation Value R Factor – 3.5 (BTU units) R Factor – 0.62 (Watts units)

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Details at armstrongeelings.com

Weight; Square Feet/Carton
1466 – 0.58 lbs/SF; 24 SF/ctn
1467 – 0.58 lbs/SF; 24 SF/ctn
3900, 3900PB, 3901, 3902, 3903 –
0.58 lbs/SF; 48 SF/ctn
3904, 3905 – 0.59 lbs/SF; 75 SF/ctn
3908, 3908PB – 0.56 lbs/SF; 96 SF/ctn
3909 – 0.60 lbs/SF; 64 SF/ctn
3906 – 0.57 lbs/SF; 72 SF/ctn
3907 – 0.56 lbs/SF; 72 SF/ctn

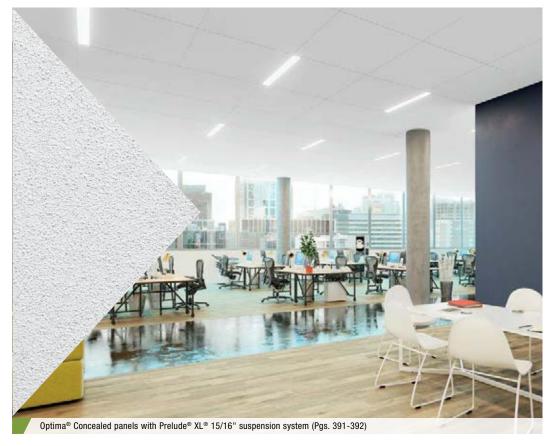
Minimum Order Quantity



П



# **Concealed Suspension** fine texture





armstrongceilings.com/photogallery SEARCH: optima

Fine texture acoustical panels with a fully concealed suspension system create a monolithic look with accessibility.

### **KEY SELECTION ATTRIBUTES**

- · Large format acoustical panels
- · Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Articulation Class (190) and NRC (0.90)
- Smooth, clean, durable finish Washable Scratch-resistant Soil-resistant
- · Energy-saving, high light-reflective finish
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- Renovation installs on existing 15/16" suspension system
- · Open plan office areas
- Auditoriums
- · Areas with limited plenum depth
- · Areas with indirect lighting

### **COLOR**



(WH)

# **DETAILS**





- 1. Optima® Concealed
- 2. Optima Concealed with Prelude® XL® 15/16" suspension system

# OPTIMA® Concealed

Concealed Suspension fine texture

### VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

RECYCLED

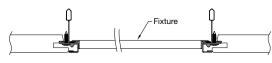
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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions (Inches)	UL Clas Acous	sified stics	 Fotal Acoustics <sup>1</sup>	시청 Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
	com/catdwgs			+	UAU	- ⊢ <b>∢</b>	<u>ت</u>	ша	Ş	Bio-	Humi-	٥>	C.	<u>\$</u>	<i>.</i> Ω:	E 0	4.2	e >
OPTIMA® Co	oncealed									Block	Guard+		L (	Ourabilit	у —			
25	106	8537	24 x 48 x 7/8"	0.90	-	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•
Quick Kerf™ Edge	106	8535	24 x 72 x 7/8"	0.90	_	_	190	Class A	0.90	•	•	-	•	•	•	•	•	•
Non-support Edge	106	8536	24 x 96 x 7/8"	0.90	-	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•
Lugo	106	8534	30 x 30 x 7/8"	0.90	-	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	106	8538	48 x 48 x 7/8"	0.90	-	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•
	106	8539	48 x 48 x 7/8"	0.90	26	-	190	Class A	0.90	•	•	-	•	•	•	•	-	•
	106	FastSize™ Panels	W: 4" - 30" / L: 12" - 96" W: >30" - 48" / L: 12" - 48" 7/8" Thick	N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) Designed for panels around lights and diffusers. For full-field installations of special sizes, contact Armstrong Ceilings customer service.

### CONCEALED - FIXTURE TRIMS



FIXTURE	TRIM		
Item No.	Length	Pcs	Color
FTP4ZW	4" Concealed Fixture Kit	24	Blizzard White
FTP6ZW	6" Concealed Fixture Kit	24	Blizzard White
FTP24ZW	24" Concealed Fixture Kit	24	Blizzard White
FTP48ZW	48" Concealed Fixture Kit	24	Blizzard White
FTP96ZW	96" Concealed Fixture Kit	24	Blizzard White
Other Size	4" to 96" Trim Pieces	-	Blizzard White

Fixture trim kits include 24 straight trim pieces, 24 corner brackets, screws, and pop rivets. Example: For a space with 24" x 48" fixtures, order (1) 24" kit FTP24ZW and (1) 48" kit FTP48ZW. This will frame (12) 24" x 48" fixtures.

### ACCESSORIES (must be ordered separately)

Item No. 441



Border Clip. Used for corners and special cutouts.

442 A



Hold-Down Clip

7425 (24") 7431 (30") 7445 (48" 7461 (60")

Stabilizer Bars

Mid-point Clip (Needed for panels over 30" wide)





Spring Border Clip

(For installations with the panel resting on the wall molding)

### SUSPENSION SYSTEMS

522

7870



# AXIOM® TRIM DETAIL **Œ** ⊕

Optima® Concealed panels with Axiom® Vector® trim for cloud-friendly design. Blizzard White color and texture finish available to complement Optima ceiling panels.

### PHYSICAL DATA

Trims

8534, 8535, 8536, 8537, 8538 – Fiberglass with DuraBrite® acoustically transparent membrane. 8539 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing.

### Surface Finish

DuraBrite scrim with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

# ASTM E1264 Classification

Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended
for areas subject to high humidity, up to, but not
including, standing water and outdoor applications.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: optima) BPCS-5061-617

### Mold/Mildew Protection

available)

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Primary (Embodied) Energy See all LCA information on our EPDs.

Acoustical Details
Some items have CAC backing. CAC backing may be available as a special order.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

R Factor – 3.5 (BTU units) R Factor – 0.62 (Watts units)

### **Design Consideration**

Use fixture trim kit around all lights, diffusers, and other ceiling penetrations to avoid exposed suspension system

LEED® is a registered trademark of the U.S. Green Building Council UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America and panel edges. Panel sizes less than 24" x 24" are not recommended for full field installations.

Border panels in a seismic installation will not be accessible. To ensure border panels are accessible in other areas, consult installation instructions section 3.7.2

### Installation Consideration

Optima® Concealed panels must be installed on a square, level suspension system as tolerance is near zero.

# 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

Weignt; Square reev Carlon 8534 - 0.55 lbs/SF; 75 SF/ctn 8535 - 0.55 lbs/SF; 72 SF/ctn 8536, 8537 - 0.55 lbs/SF; 96 SF/ctn 8538, 8539 - 0.55 lbs/SF; 64 SF/ctn

Minimum Order Quantity



# OPTIMA® Health Zone™

Square Lay-in, Tegular fine texture





This absorptive ceiling panel meets USDA/FSIS guidelines for use in food preparation/kitchens, and Clean Room assemblies.

### **KEY SELECTION ATTRIBUTES**

- Clean Rooms up to ISO Class 5 (Items 3114, 3115, 3214, 3215 with Clean Room™ suspension system)
- Optima<sup>®</sup> Health Zone<sup>™</sup> PB panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- · Items with PB suffix are manufactured with a plant-based binder
- Exceeds FGI guidelines for acoustics and cleanability in general healthcare spaces
- · Smooth, clean, durable finish -Impact-resistant, Scratch-resistant, and Soil-resistant
- · Long-lasting water-repellency
- · Washable and Scrubbable
- · Safe for use with disinfectants
- Meets USDA/FSIS guidelines for use in food processing areas
- · Energy-saving high light-reflective finish
- · Visual complements Ultima®, Ultima® Health Zone™, and Optima® panels
- 30-Year Limited System Warranty against visible sag, mold/mildew, and bacterial growth

# TYPICAL APPLICATIONS

### Clean Rooms

- · Medical facilities
- · Data centers

### Healthcare:

- · Assists in addressing HIPAA, HCAHPS, and FGI requirements
- · Patient rooms (walls-to-deck)
- · Treatment rooms (walls-to-deck)
- · Nurses' stations
- · Emergency rooms
- · Semi-restricted surgical areas
- · Kitchens/food preparation areas
- · Laboratories

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 296.)



**COLOR** 

White (WH)











- 1. Optima® Health Zone™ Square Lay-in
- 2. Optima Health Zone 15/16" Square Tegular
- 3. Optima Health Zone 9/16" Square Tegular
- 4. Optima Health Zone Square Lay-in with Clean Room™ 15/16" suspension system
- 5. Optima Health Zone Square Tegular with Prelude XL 15/16" suspension system
- 6. Optima Health Zone PB Square Tegular with Interlude® XL® HRC 9/16" suspension system













# OPTIMA® Health Zone™

Square Lay-in, Tegular fine texture



Declare<sup>sм</sup> Living Building Challenge Compliant PB Suffix Only SUSTAIN High Performance Sustainable Ceiling Systems PB Suffix Only



PB ONLY PB ONLY

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)		UL Cla	ssified stics + CAC =	II Total Acoustics <sup>1</sup>	이)중 Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash Wash	Scrub	Impact	V Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warranty
OPTIM	A® Health Zo	one™									Bio- Block+	Humi- Guard+				— Dura	bility –					
15/16" Square	1, 6, 7	ø 3114PB	24 x 24 x 1"		0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
Lay-in	1, 6, 7	3314	24 x 24 x 1-1/2	2" 🗌	0.95	29*	-	190	Class A	0.86	•	•	-	•	•	•	•	•	•	•	-	•
	1, 6, 7	🥖 3115РВ	24 x 48 x 1"		0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
	1, 6, 7	3315	24 x 48 x 1-1/2	2"	0.95	29*	-	190	Class A	0.86	•	•	-	•	•	•	•	•	•	•	-	•
	1	Other Size Panels	W: 4" – 47" / L 1" Thick	: 12" – 48"	N/A	N/A	_	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
15/16" Square	8, 10	<b>⊘</b> 3214PB	24 x 24 x 1"		0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
Tegular	8, 10	3316	24 x 24 x 1-1/2	2" 🗌	0.95	29*	-	190	Class A	0.86	•	•	-	•	•	•	•	•	•	•	-	•
	8, 10	🥖 3215РВ	24 x 48 x 1"		0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
	8, 10	3317	24 x 48 x 1-1/2	2"	0.95	29*	_	190	Class A	0.86	•	•	-	•	•	•	•	•	•	•	-	•
	8, 10	Other Size Panels	W: 4" - 47" / L 1" Thick	: 12" – 48"	N/A	N/A	-	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
9/16" Square	26, 43, 47, 51, 55	ø 3216PB	24 x 24 x 1"		0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
Tegular	26, 43, 47, 51, 55	🥖 3217РВ	24 x 48 x 1"		0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
	26, 43, 47, 51, 55	Other Size Panels	W: 4" - 47" / L 1" Thick	: 12" – 48"	N/A	N/A	_	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
¹Total Acc	oustics® ceiling p		deal combination of	noise-reduction	and soun	d-blocking	g perforn	nance i	n one p	oduct.												
<b>SUSPI</b> 1-1/2'			C 29 achieved wit		suspension		n; not UL	. Classi	\	acoust		Clea	an Roor									
9/16'	(Aluminur	n) L® 1/4"	Silhouette XL 1/8" Reveal	Alumin	um Prelud	e® Plus X	· ·	,	Steel o		num)	(Steel o										

### PHYSICAL DATA

# Material

3114PB, 3115PB, 3214PB, 3215PB, 3216PB, 3217PB – Fiberglass with DuraBrite® scrim acoustically transparent membrane. 3314, 3315, 3316, 3317 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing.

### Surface Finish

DuraBrite with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled)

### ASTM E1264 Classification

Type XII, Form 2, Pattern E, Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew & Bacteria Protection Optima® HealthZone™ ceiling panels with BioBlock®

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: optima health zone) BPCS-4261-517

Plus performance resist the growth of mold and mildew, and resist odor- and stain-causing bacterial growth.

### VOC Emissions (PB items only)

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

# **Primary (Embodied) Energy** See all LCA information on our EPDs.

# **High Recycled Content**

Contains greater than 50% total recycled content. Total recycled content based on product composition of postconsumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

# **Acoustical Details**

Some items have CAC backing. CAC backing may be vailable as a special order. CAC value of 37 can be achieved by backloading soft fiber products with item 769 or 770.

Insulation Value R Factor – 4.0 (BTU units) R Factor – 0.70 (Watts units)

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### **Application Considerations**

Application Considerations.
For Clean Room installations, use full-size panels.
Testing for Clean Room 5 (Class 100) was completed with full-size 15/16" gasketed suspension system. For Clean Rooms that require field-out perimeter panels, use Lay-in panels (3114, 3115) or Tegular panels (3214, 3215) with Lay-in field-out panels at the perimeter.

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### **Cleaning Recommendations**

To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:

Sodium hypochlorite

Outstagers composition

Hydrogen peroxide

Sodium hypochlorite
Quaternary ammonium

Weight; Square Feet/Carton 3114PB, 3115PB, 3214PB, 3215PB, 3216PB, 3217PB, 3314, 3315 – 0.45 lbs/SF; 96 SF/ctn 3316, 3317 – 0.75 lbs/SF; 64 SF/ctn

# Minimum Order Quantity

1 carton, excludes other size panels



# OPTIMA® Radial

# Custom Lay-in & Tegular Ceiling System fine texture





Optima® panels designed for dramatic installations, requiring a fine-textured visual and performance.

### **KEY SELECTION ATTRIBUTES**

- Outstanding acoustical performance in both Articulation Class (190-200) and NRC (0.90-0.95)
- Smooth, clean, durable finish –
   Washable, Impact-resistant,
   Scratch-resistant, Soil-resistant
- · Energy-saving high light-reflective finish
- · Sag resistant large panels
- 30-Year Limited System Warranty against visible sag and mold and mildew

# TYPICAL APPLICATIONS

- Office
- Education
- Hospitality and retail
- · Healthcare
- · Transportation

### **COLOR**



(WH)

### **DETAILS**





- 1. Optima® Square Lay-in
- 2. Optima Square Tegular

# OPTIMA® Radial

Custom Lay-in & Tegular Ceiling System

# Calculate LEED contribution at armstrongceilings.com/greengenie LOCATION DEPENDENT

OPTIMA® I	RADIAL SYSTEM OVERVI	EW			\$\$
Product	Panels	Length	Width	System Capabilities	Suspension System
OPTIMA La	y-in or Tegular				
	Custom Trapezoid Lay-in, Custom Trapezoid Tegular	6" intervals from 24"-66"	12"- 48"	<ul> <li>Meets taper up to 5°</li> <li>Minimum inside radius 12"</li> <li>Center must be a separate component</li> </ul>	Interlude®, Suprafine®, Prelude® (accessible) with custom cross tees
		One-sided:			Minimum Radius:
1-sided	2-sided	<ul> <li>Refer to Optima® Radi Guide for additional ca</li> <li>Two-sided:</li> <li>Each tapered side MU symmetrical</li> </ul>	pabilities	12'-0"	The minimum achievable radius is 12'. This is based on a minimum panel edge of 12" with the maximum tapers noted below Optima Radial panels CANNOT

# equal

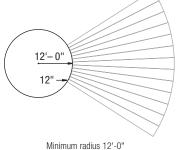
One-sided or symmetrical two-sided trapezoid

48" max

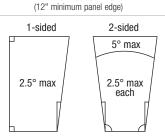
- Refer to Optima Radial Technical Guide for additional capabilities

· Trapezoid panels are available

in widths from 12" to 48"



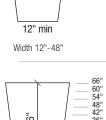
be used inside this 12' radius drywall may be a suitable alternative



Taper maximum 2.5° angle per side

### Taper:

- The maximum taper angle per side for all trapezoids is 2.5 degrees
- · For two-sided trapezoids, the taper angle must be equal on both sides (i.e., symmetrical) for a maximum of 5 degrees



### Length:

Width:

• 8 lengths are available in the following 6" increments: 24," 30," 36," 42," 48," 54," 60," and 66"



Length 24"-66" in 6" increments

NOTE: This information does not apply to WoodWorks® or MetalWorks™ Radial ceilings. Please consult TechLine at 1 877 276-7876, or visit armstrongceilings.com/radial for more details.

### PHYSICAL DATA

Fiberglass with DuraBrite® acoustically transparent membrane with or without CAC backing

# Surface Finish

DuraBrite with factory-applied latex paint

Fire Performance ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection Ceilings with BioBlock® performance resist the growth of mold and mildew.

# Primary (Embodied) Energy See all LCA information on our EPDs.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

# Insulation Value

3/4" – R Factor – 3.0 (BTU units) 0.53 (Watts units) 1" – R Factor – 4.0 (BTU units) 0.70 (Watts units) 1-1/2" – R Factor – 6.0 (BTU units) 1.05 (Watts units)

Weight; Square Feet/Carton Sizes, weight, and square feet vary with order

## 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Minimum Order Quantity

# PAINTED NUBBY™

# Square Lay-in & Tegular medium texture



This panel offers excellent acoustical absorption with a medium-textured fabric visual.

# **KEY SELECTION ATTRIBUTES**

- Outstanding acoustical performance; both Articulation Class (180-190) and NRC (0.85-0.95)
- Fiberglass substrate resists mold and mildew
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- Open plan offices used for focus, collaboration, and teaming
- Areas requiring superior acoustics and sag resistance

# **COLOR**



(WH)

## **DETAILS**





- 1. Painted Nubby™ Tegular
- 2. Painted Nubby Tegular with Silhouette® 9/16" suspension system 1/4" reveal

# PAINTED NUBBY™

Square Lay-in & Tegular medium texture

VISUAL SELECTION

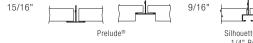
PERFORMANCE SELECTION Dots represent high level of performance.

\$\$\$\$

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions	UL Cla	assified astics		Acoustics <sup>1</sup> Articulation	Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)	 NRC	+ CAC	= Total		ec AC	Fire	<b>P</b>	<b>®</b>	*	Cert	Dura	Rec	Rec Prog	30-) War
PAINTED NUE	BY™ Square L	ay-in									Bio- Block	Humi- Guard+					
15/16" Square Lay-in	1	3102	24 x 24 x 1"	0.95	N/A	-		90	Class A	0.84	•	•	-	Std	•	-	•
(	1	3101	24 x 48 x 3/4"	0.85	N/A	-		80	Class A	0.84	•	•	-	Std	•	-	•
	1	3103	24 x 48 x 1"	0.95	N/A	-		90	Class A	0.84	•	•	-	Std	•	-	•
	1	3104	48 x 96 x 1"	0.95	N/A	-		90	Class A	0.84	•	•	_	Std	•	-	•
	1	Other Size Panels	W: 4" - 48" / L: 3/4" or 1" Thick	N/A	N/A	-	- N	I/A	Class A	0.84	•	•	-	Std	•	-	•
PAINTED NUB	BY Tegular																
15/16" Square Tegular	8	3200	24 x 24 x 1"	0.95	N/A	-		90	Class A	0.84	•	•	_	Std	•	_	•
9/16" Square Tegular	26, 43, 47, 51, 55	3201	24 x 24 x 1"	0.95	N/A	-	- 1	90	Class A	0.84	•	•	_	Std	•	_	•
•	26, 43, 47, 51, 55	Other Size Panels	W: 4" – 48" / L: 3/4" or 1" Thick	N/A	N/A	-	- N	I/A	Class A	0.84	•	•	-	Std	•	_	•

<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

# SUSPENSION SYSTEMS





Mold/Mildew Protection

**High Recycled Content** 

**Acoustical Details** 



Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Contains greater than 50% total recycled content.

Total recycled content based on product composition

of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770.







### PHYSICAL DATA

### Material

Fiberglass with fabric facing

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled.)

# ASTM E1264 Classification Type XII, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

# Insulation Value 3101 - R Factor - 3.0 (BTU units) R Factor - 0.53 (Watts units) 3102, 3103, 3104, 3200, 3201 -R Factor - 4.0 (BTU units) R Factor - 0.70 (Watts units)

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### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 3101 – 0.44 lbs/SF; 128 SF/ctn 3102, 3103 – 0.46 lbs/SF; 96 SF/ctn 3104 – 0.46 lbs/SF; 128 SF/ctn 3200, 3201 – 0.55 lbs/SF; 96 SF/ctn

# Minimum Order Quantity 1 carton, excludes other size panels

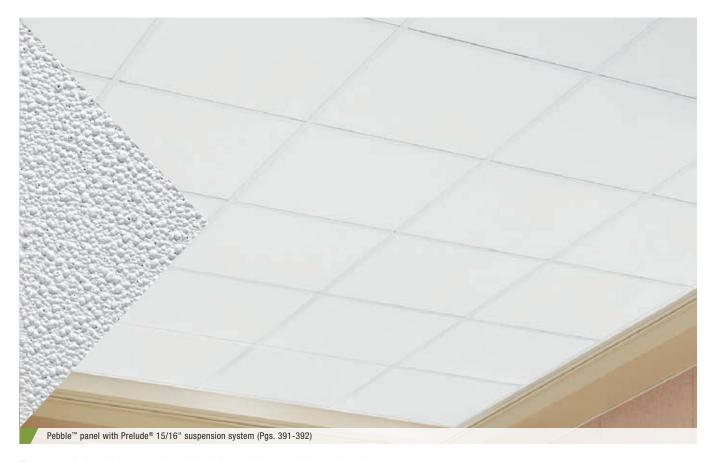
# Metric Items Available

3102M, 3101M, 3103M, 3200M, 3201M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



# $\mathsf{PEBBLE}^{\mathsf{TM}}$

# Square Lay-in medium texture



This economical, medium-textured panel provides excellent sound absorption options.

# **KEY SELECTION ATTRIBUTES**

- Excellent sound absorption (perforated items)
- · Easy-to-clean, durable surface
- Economical solution
- 30-Year Limited System Warranty against visible sag, mold, and mildew

# TYPICAL APPLICATIONS

- Discount/grocery stores
- · Locker rooms
- Utility rooms
- · Lavatories/restrooms

### COLOR



White

### **DETAILS**





- 1. Pebble™
- 2. Pebble with Prelude® 15/16" suspension system

# PEBBLE™

Square Lay-in medium texture

VISUAL SELECTION

# PERFORMANCE SELECTION Dots represent high level of performance

RECYCLED CONTENT

LOCATION DEPENDENT

\$\$\$\$

Calculate LEED contribution at armstrongceilings.com/greengenie

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions		UL Clas Acous	sified	 Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Soil	Recycled Content	Recycle Program	r ranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)		NRC +	CAC	Tota Aco	Fire		<b>(S)</b>	*	Cert	2		mini	<b>8</b> /^\	$\overline{\wedge}$	Rec	Rec	30- War
PEBBL	E™ (Perforated	l)								Bio- Block	Humi- Guard+				Durabilit	y ——		]		
15/16" Square Lay-in	1	2983	24 x 48 x 5/8"		0.70	N/A	-	Class A	0.89	•	•	-	-	•	•	•	•	•	_	•
	1	2970	24 x 60 x 5/8"		0.70	N/A	-	Class A	0.89	•	•	_	_	•	•	•	•	•	_	•
	1	Other Size Panels	W: 12" – 30" / L: 5/8" Thick	12" – 60"	N/A	N/A	-	N/A	0.89	•	•	_	_	•	•	•	•	•	_	•
PEBBL	E High NRC (Po	erforated	i)																	
15/16" Square Lay-in		2988			0.80	N/A	-	Class A	0.89	•	•	-	-	•	•	•	•	•	_	•
	1	2989	24 x 48 x 1"		0.80	N/A	_	Class A	0.89	•	•	_	_	•	•	•	•	•		•
	1	Other Size Panels	W: 12" - 30" / L: 1" Thick	12" – 60"	N/A	N/A	-	N/A	0.89	•	•	_	_	•	•	•	•	•	_	•
PEBBL	E (Unperforate	d)																		
15/16" Square Lay-in	1	2968	24 x 48 x 5/8"		0.50	N/A	-	Class A	0.89	•	•	-	•	•	•	•	•	•	_	•
	1	Other Size Panels	W: 12" – 30" / L: 5/8" Thick	12" – 60"	N/A	N/A	_	N/A	0.89	•	•	_	•	•	•	•	•	•	_	•

# SUSPENSION SYSTEMS

15/16"

# PHYSICAL DATA

### Material

Fiberglass with vinyl facing

# Surface Finish

Scrubbable vinyl film facing (UV protected)

Prelude®

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

# ASTM E1264 Classification Type XII, Form 1, Pattern E C

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

# **High Recycled Content**

Total recycled content. Total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770.

Insulation Value 2968, 2970, 2983 - R Factor - 2.6 (BTU units) R Factor - 0.46 (Watts units) 2988, 2989 - R Factor - 4.0 (BTU units) R Factor - 0.70 (Watts units)

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**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton 2968, 2983 - 0.20 lbs/SF; 128 SF/ctn 2970 - 0.20 lbs/SF; 120 SF/ctn 2988, 2989 - 0.31 lbs/SF; 80 SF/ctn

### Minimum Order Quantity

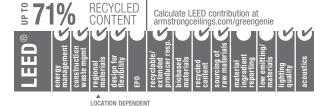
1 carton, excludes other size panels.

Metric Items Available 2983M, 2970M, 2988M, 2989M, 2968M -Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



RANDOM FISSURED™ Square Lay-in

Random Fissured™ panels with Prelude® 15/16" suspension system



\$\$\$\$

This economical panel provides standard-to-good sound absorption with a medium-textured visual.

### **KEY SELECTION ATTRIBUTES**

- · Excellent sound absorption (perforated options)
- · Easy-to-clean, durable surface
- Fconomical
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Discount/grocery stores
- · Locker rooms
- · Utility rooms
- · Lavatories/restrooms

# **COLOR**



### **VISUAL SELECTION**

## PERFORMANCE Dots represent high level of performance

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings com/catdwgs	Item No.	Dimensions (Inches)	UL Cla Acou	ssified stics	. =	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash Wash	Scrub	Mpact Impact	Soil	Recycled Content	Recycle Program	30-Yr Warranty
RANDO	M FISSURED	(Perforate	d)							Bio- Block	Humi- Guard+				Durability	,—				
15/16" Square Lay-in	1	2908	24 x 24 x 5/8"	0.70	N/A		-	Class A	0.72	•	•	-	-	•	•	•	•	•	-	•
Lay-III	1	2910	24 x 48 x 5/8"	0.70	N/A		-	Class A	0.72	•	•	-	-	•	•	•	•	•	-	•
	1	Other Size Panels	W: 12" - 30" / L: 12" - 60" 5/8" Thick	N/A	N/A		-	Class A	0.72	•	•	-	-	•	•	•	•	•	-	•
RANDO	M FISSURED	(Unperfora	ated)																	
15/16" Square Lay-in	1	2909	24 x 24 x 5/8"	0.55	N/A		-	Class A	0.72	•	•	-	•	•	•	•	•	•	_	•
Lay-III	1	2911	24 x 48 x 5/8"	0.55	N/A		-	Class A	0.72	•	•	-	•	•	•	•	•	•	-	•
	1	Other Size Panels	W: 12" - 30" / L: 12" - 60" 5/8" Thick	N/A	N/A		-	Class A	0.72	•	•	-	•	•	•	•	•	•	-	•

<sup>&</sup>lt;sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS

15/16'



### PHYSICAL DATA

### Material

Fiberglass with vinyl facing

Surface Finish Scrubbable vinyl film facing (UV protected)

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled)

### **ASTM E1264 Classification**

2908, 2910 – Type XII, Form 1, Pattern E C 2909, 2911 – Type XII, Form 1, Pattern E

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

Insulation Value R Factor - 2.6 (BTU units) R Factor - 0.46 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

# Weight; Square Feet/Carton 0.17 lbs/SF; 128 SF/ctn

### Minimum Order Quantity

1 carton, excludes other size panels

Metric Items Available Items 2908M, 2910M, 2909M, 2911M -Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.







# **SHASTA®**

Square Lay-in medium texture



\$\$\$\$

This economical panel provides sound absorption with a medium-textured, easy-to-clean, durable vinyl surface.

### **KEY SELECTION ATTRIBUTES**

- · Excellent sound absorption (perforated options)
- · Easy-to-clean, durable surface
- Fconomical
- · 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Discount/grocery stores
- · Locker rooms
- · Utility rooms
- · Lavatories/restrooms

# **COLOR**





### VISUAL SELECTION

## PERFORMANCE Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs		Dimensions (Inches)	UL Clas Acou	ssified stics	II Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Bio-	Sag Hesist	Certified Low VOC Emissions	Water Repel		Scrub	Impact	Soil	Recycled Content	Recycle Program	30-Yr Warranty
15/16" Square Lay-in	1	2904	24 x 24 x 5/8"	0.70	N/A	-	Class A	0.72	•	•	-	-	•	•	•	•	•	_	•
Lay III	1	2906	24 x 48 x 5/8"	0.70	N/A	-	Class A	0.72	•	•	-	-	•	•	•	•	•	_	•
спуст	1 A (Unperforat	Other Size Panels	W: 12" - 30" / L: 12" - 60" 5/8" Thick	N/A	N/A	-	Class A	0.72	•	•	-	-	•	•	•	•	•	_	•
15/16" Square Lay-in	1	2905 <sub></sub>	24 x 24 x 5/8"	0.50	N/A	_	Class A	0.72	•	•	-	•	•	•	•	•	•		•
Lay-III	1	2907	24 x 48 x 5/8"	0.50	N/A	_	Class A	0.72	•	•	-	•	•	•	•	•	•	_	•
	1	Other Size Panels	W: 12" - 30" / L: 12" - 60" 5/8" Thick	N/A	N/A	_	Class A	0.72	•	•	-	•	•	•	•	•	•	_	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

TechLine / 1 877 276-7876

BPCS-3697-517

armstrongceilings.com/commercial (search: shasta)

Shasta® panel with Prelude® 15/16" suspension system (Pgs. 391-392)

### SUSPENSION SYSTEMS

15/16"



### PHYSICAL DATA

### Material

Fiberglass with vinyl facing

# Surface Finish Scrubbable vinyl film facing (UV protected)

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

2904, 2906 – Type XII, Form 1, Pattern E C 2905, 2907 – Type XII, Form 1, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **High Recycled Content**

Total recycled content Total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### **Acoustical Details**

A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

Insulation Value R Factor - 2.6 (BTU units) R Factor - 0.46 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

# Weight; Square Feet/Carton 0.17 lbs/SF; 128 SF/ctn

Minimum Order Quantity

# 1 carton, excludes other size panels

Metric Items Available Items 2904M, 2906M, 2905M, 2907M — Metric Items are subject to extended lead times and minimum quantities. Contact your representative for more details.



Add 2-letter color suffix to item number when specifying or ordering (e.g., 2906 <u>B</u> <u>L</u>).

# School Zone® FINE FISSURED $^{\mathsf{m}}$ & School Zone® GEORGIAN $^{\mathsf{m}}$

Square Lay-in medium texture





This panel is a good choice for classrooms with economical, non-directional ceilings and improved acoustics.

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Excellent sound absorption products can help comply with ANSI S12.60 classroom guidelines
- Economical
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold, and mildew

# TYPICAL APPLICATIONS

- Schools
- Healthcare assists in addressing HIPAA and FGI acoustical requirements
- · Libraries/band rooms
- Corridors

## **COLOR**



White (WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 306.)









- 1. School Zone<sup>®</sup> Fine Fissured<sup>™</sup> Square Lay-in
- 2. School Zone® Georgian™
- 3. Fine Fissured Square Lay-in with Prelude® 15/16" suspension system
- 4. School Zone Georgian with Prelude 15/16" suspension system



# School Zone® FINE FISSURED™ & School Zone® GEORGIAN™

Square Lay-in medium texture

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions (Inches)	UL Clas Acous	stics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
	com/catdwgs			 NRC +	_	= NRC CAC	6	ş	Bio-	Humi-	35		<b>8</b>	<u>~</u>	23		% ⊗ %
	ne® FINE FISSI			 UL C					Block	Guard+	-		Durability		l		
15/16" Square Lay-in	1	1713	24 x 24 x 3/4"	0.70	35 •	BETTER ()))	Class A	0.85	•	•	•	_	_	_	•	•	•
	1	1810	24 x 24 x 3/4"	0.70	40 •	BETTER (III)	Fire Guard™	0.85	•	•	•	-	-	-	•	•	•
	1	1714	24 x 48 x 3/4"	0.70	40	BETTER	Class A	0.85	•	•	•	-	-	-	•	•	•
	1	1811	24 x 48 x 3/4"	0.70	40	BETTER	Fire Guard	0.85	•	•	•	-	-	-	•	•	•
15/16" Angled Tegular	13	1717	24 x 24 x 3/4"	0.70	40	BETTER	Class A	0.85	•	•	•	-	-	-	•	•	•
	13	1820	24 x 24 x 3/4"	0.70	35 •	BETTER	Fire Guard	0.85	•	•	•	-	-	-	•	•	•
	13	1824	24 x 48 x 3/4"	0.70	35 •	BETTER	Fire Guard	0.85	•	•	•	-	-	-	•	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	1719	24 x 24 x 3/4"	0.70	40	BETTER	Class A	0.85	•	•	•	-	-	_	•	•	•
Tegular	29, 44, 48, 52, 56	1821	24 x 24 x 3/4"	0.70	35	BETTER	Fire Guard	0.85	•	•	•	-	-	-	•	•	•
School Zo	ne® GEORGIAN	МТ				.,											
15/16" Square Lay-in	1	796	24 x 24 x 3/4"	0.65	35	G00D	Class A	0.86	•	•	•	•	•	•	•	•	•
(	1	795	24 x 48 x 3/4"	0.65	35	G00D	Class A	0.86	•	•	•	•	•	•	•	•	•
GOOD (NR		5+) BETTER	eal combination of nois (NRC 0.70-0.75; CAC			rmance in or	ne produc	et.	) (+	l			-1				

# PHYSICAL DATA

### Material

Wet-formed mineral fiber

# Surface Finish Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

Prelude®

Prelude® XL® Fire Guard™

# ASTM E1264 Classification Type III, Form 2, Pattern C E

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications

# Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

Silhouette®

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Silhouette

# Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### **High Recycled Content**

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

# **Insulation Value**

School Zone® Fine Fissured™: R Factor – 1.5 (BTU units) R Factor - 0.26 (Watts units)
School Zone® Georgian™: R Factor - 1.6 (BTU units)
R Factor - 0.28 (Watts units)

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Sonata® XL®

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

Interlude® XL® HRC

Weight, Square Februarius 1824 – 1.20 lbs/SF; 64 SF/ctn 1717, 1719 – 1.25 lbs/SF; 48 SF/ctn 1713, 1810, 1820, 1821 – 1.31 lbs/SF; 48 SF/ctn 1714, 1811 – 1.38 lbs/SF; 64 SF/ctn 795 – 1.38 lbs/SF; 64 SF/ctn 796 – 1.31 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton

Suprafine®

Suprafine® XL® Fire Guard™

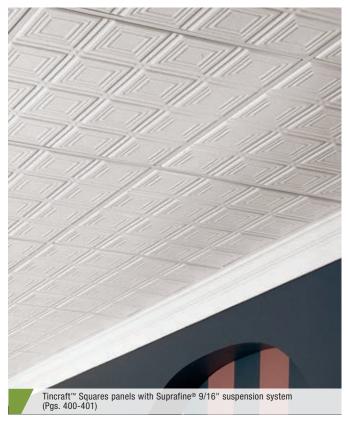
Metric Items Available Items 1810M, 1811M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



### TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: school zone) BPCS-4629-517

# $TINCRAFT^{\mathsf{TM}}$

Circles, Squares & Triangles Tegular smooth texture





These panels offer the look of old-world tin ceilings with low-relief panels in classic designs, an array of standard metallic colors, and sound blocking.

### **KEY SELECTION ATTRIBUTES**

- Early 20th century embossed metal look
   Affordable, practical alternative to
- Affordable, practical alternative to traditional tin and metal ceilings
- · Finely detailed design for upscale look
- High sound-blocking CAC (35)

### TYPICAL APPLICATIONS

- · Specialty shops/stores
- Restaurants
- · Dining areas

NOTE: Not recommended for areas requiring acoustical performance

COLORS Due to printing limitations, shade may vary from actual product.



/hite Faux Coat NH) Pewter (PW)





Bronze (BZ)





Copper (CP)

Color finishes available on Tincraft Circles panels only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.

### FACE VIEWS (1/4 of 24 x 24" panel shown)







Circles

Squares Triangles

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 308.)













- 1. Tincraft™ Circles
- 2. Tincraft Squares
- 3. Tincraft Triangles
- 4. Tincraft Circles with Prelude 15/16" suspension system
- 5. Tincraft Squares with Suprafine 9/16" suspension system
- 6. Tincraft Triangles with Suprafine 9/16" suspension system



VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance.

\$\$\$\$

CAC

Warranty	<b>€</b>
1-Yr	

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No. ◆	Dimensions (Inches)		ssified istics	II Total Acoustics¹	Fire Performance	Light Reflect (White only)	Anti-Mold & Mildew	Sag Resist	Durability	Recycled Content	Recycle Program	Warranty
TINCRAFT"	<sup>™</sup> Circles													
15/16" Flush Tegular	3 r	8008	24 x 24 x 3/4"	N/A	35	-	Class A	0.78	-	Std	Std	Std	•	1-Yr
TINCRAFT	Squares													
9/16" Flush Tegular	25 r	8009	24 x 24 x 3/4"	N/A	35 •	-	Class A	0.78	-	Std	Std	•	•	1-Yr
TINCRAFT	Triangles													
9/16" Flush Tegular	25 r	8010	24 x 24 x 3/4"	N/A	35 •	-	Class A	0.78	-	Std	Std	•	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

<sup>◆</sup> Add 2-letter color suffix to item number when specifying or ordering (e.g., 8008 <u>P</u> <u>W</u>).







Images represent a 12" x 12" section of panel.

# SUSPENSION SYSTEMS

15/16"



9/16"



For coordinating color, specify Prelude® XL® items 7301 main beam, XL7342, XL7328 cross tees, and 7800 wall molding with the appropriate 2-letter color suffix.

# PHYSICAL DATA

Material

Wet-formed mineral fiber Surface Finish

Factory-applied latex paint

Fire Performance ASTM E84 and CAN/ULC \$102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification Type III, Form 2, Pattern J Z (Classic embossed tin ceiling design) Fire Class A

Humidity/Sag Resistance Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

**High Recycled Content** 

nigh Recycled content Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value

Average R Factor – 1.6 (BTU units) Average R Factor – 0.28 (Watts units)

# Performance Guarantee & Warranty

10-year warranty when installed with Armstrong® Suspension System. 1-year warranty on ceiling panel. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 8008 - 0.90 lbs/SF; 48 SF/ctn 8009, 8010 - 1.23 lbs/SF; 32 SF/ctn

Minimum Order Quantity 1 carton

# **TUNDRA®**

# Square Lay-in & Tegular medium texture



Durable Tundra® panels have a medium-textured visual, and are impact- and scratch-resistant.

# **KEY SELECTION ATTRIBUTES**

- Durable Impact-resistant Scratch-resistant
- 30-Year Limited System Warranty against visible sag, mold, and mildew

# TYPICAL APPLICATIONS

- Offices
- · Schools
- Corridors

## **COLOR**



White

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 310.)





- 1. Tundra® Beveled Tegular
- 2. Tundra with Suprafine® 9/16" suspension system

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)		UL Cla Acou	ssified stics	II Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
TUNDRA®	)	***								Bio- Block	Humi- Guard+		Dura	bility —			
15/16" Square Lay-in	1	301	24 x 24 x 5/8"		0.50	33	-	Class A	0.87	•	•	-	•	•	Std	•	•
	1	302	24 x 48 x 5/8"		0.50	35	_	Class A	0.87	•	•	-	•	•	Std	•	•
	1	Other Size Panels	W: 24" / L: 24" 5/8" Thick	- 48"	N/A	N/A	_	Class A	0.87	•	•	-	•	•	Std	•	•
15/16" Beveled Tegular	15	303	24 x 24 x 5/8"		0.50	33	_	Class A	0.87	•	•		•	•	Std	•	•
	15	305	24 x 48 x 5/8"		0.50	35	_	Class A	0.87	•	•	_	•	•	Std	•	•
	15	Other Size Panels	W: 24" / L: 24" 5/8" Thick	- 48"	N/A	N/A	_	Class A	0.87	•	•	_	•	•	Std	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	304	24 x 24 x 5/8"		0.50	33	_	Class A	0.87	•	•	_	•	•	Std	•	•
<b>L</b>	29, 44, 48, 52, 56	Other Size Panels	W: 24" / L: 24" 5/8" Thick	- 48"	N/A	N/A	_	Class A	0.87	•	•	_	•	•	Std	•	•

<sup>&</sup>lt;sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS 15/16" 9/16" Silhouette® 1/4" Reveal Silhouette 1/8" Reveal Prelude® Suprafine® Interlude® XL® HRC Sonata® XL®

### PHYSICAL DATA

### Material

Wet-formed, high-density mineral fiber

### Surface Finish

Factory-applied latex paint with scuff-resistant spatter coat

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

# **ASTM E1264 Classification** Type III, Form 2, Pattern C E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Acoustical Testing
CAC testing conducted using Prelude® XL® suspension
system for 15/16" edge detail and Silhouette® suspension
system for 9/16" edge detail.

# Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Insulation Value R Factor – 1.7 (BTU units) R Factor – 0.30 (Watts units)

**30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 301, 302, 305 – 1.09 lbs/SF; 64 SF/ctn 303, 304 – 1.10 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton, excludes other size panels.

### Metric Items Available

302M, 303M, 305M, 304M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: tundra) BPCS-3038-517

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# **ULTIMA®** ULTIMA® High NRC

Square Lay-in fine texture









See more photos at: armstrongceilings.com/photogallery SEARCH: ultima

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces.

## **KEY SELECTION ATTRIBUTES**

- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® Performance
- Ultima<sup>®</sup> panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards
- · Smooth, clean, durable finish -Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- · Excellent sound absorption and blocking for Total Acoustics® performance
- Ceiling-2-Ceiling<sup>™</sup> Post-consumer Recycled Content options: items 1910HRC, 1913HRC. 71% Pre-consumer; 15% Post-consumer
- USDA-Certified Biobased Product 88%
- Available with AirGuard<sup>™</sup> coating actively removes formaldehyde from
- · Visual coordinates with Optima® panels for mixed (open/closed plan) applications
- Item 1910 available with Create!™ printed images and patterns - see pages 245-247
- · Non-directional visual reduces scrap and installation time
- Compatible with TechZone® Ceiling Systems (Pgs. 337-344)
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- · Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- · Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Corridors
- · Lobbies/reception areas
- · Department stores/retail

# **COLOR**



White (WH)

### **DETAILS**





- 1. Ultima® Square Lay-in
- 2. Ultima® Square Lay-in with Prelude® 15/16" suspension system

# **ULTIMA®** ULTIMA® High NRC

Square Lay-in fine texture



Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems

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VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions (Inches)	UL Clas Acou	ssified stics	Total Acoustics	Articulation Class	Fire Performance	Light Reflect	Anti-Molo & Mildew	Sag Resist	Certified Low VOC Emission	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
	com/catdwgs		(	NRC +	CAC	= NRC CAC	AC (=	Ε8	ş	Bio-	Humi-			<b>®</b> ^\	<u> </u>	<i>∞</i> Ω;	200		30 Wi
15/16" Square Lay-in	1	1940	24 x 24 x 7/8"	0.80	35	BEST	170	Class A	0.87	• BIOCK	Guard+  •	•	•	• Dura	bility —	•	•	•	•
	1	1943	24 x 48 x 7/8"	0.80	35	BEST (III)	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	1 @	1432	24 x 60 x 7/8"	0.80	35	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	1 60	1435	24 x 72 x 7/8"	0.80	35	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	1	Other Size Panels	W: 12" - 24" / L: 24" - 60" 7/8" Thick	N/A	N/A	_	-	Class A	0.87	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16"



### Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

### PHYSICAL DATA

Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish

DuraBrite scrim with factory-applied latex paint

Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less.

Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification Type IV, Form 2, Pattern E

Fire Class A

Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew

### **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system.

**Primary (Embodied) Energy** See all LCA information on our EPDs.

**High Recycled Content** 

Total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings

Insulation Value

R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton

1940 – 1.14 lbs/SF; 40 SF/ctn 1943 – 1.125 lbs/SF; 48 SF/ctn 1432 – 1.05 lbs/SF; 60 SF/ctn 1435 – 1.04 lbs/SF; 72 SF/ctn

Minimum Order Quantity

Metric Items Available 1940M, 1943M – Metric items subject to extended lead times and minimum quantities.



# **ULTIMA®** ULTIMA® High NRC

Square Lay-in fine texture

### VISUAL SELECTION

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### PERFORMANCE SELECTION Dots represent high level of performance.

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idge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs	Item No.	Dimensions (Inches)	UL Clas Acous	sified tics	II Potal Potal Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	Mpact	Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warranty
JLTIMA	(®									Bio- Block	Humi- Guard+			— Dura	bility —				
5/16" Square ay-in	1	1420	6 x 48 x 3/4"	N/A	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1425	6 x 60 x 3/4"	N/A	N/A	-	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1990	12 x 48 x 3/4"	0.65	35	GOOD	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1991	12 x 60 x 3/4"	0.65	35 •	GOOD	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1992	12 x 72 x 3/4"	0.65	35 •	GOOD	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1910 1910HRC	24 x 24 x 3/4"	0.75	35 •	BETTER (III)	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1913 1913HRC	24 x 48 x 3/4"	0.75	35 •	BETTER (III)	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1984	24 x 60 x 3/4"	0.75	35	BETTER ()))	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1980	24 x 72 x 3/4"	0.75	35	BETTER	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1 FS	FastSize™ Panels	W: 4" - 24" / L: 4" - 72" 3/4" Thick	N/A	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) HRC items not available in FastSize or other size panels.

### SUSPENSION SYSTEMS

15/16"



### Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel

### PHYSICAL DATA

### Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane.

### Surface Finish

DuraBrite scrim with factory-applied latex paint.

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification Type IV, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended
for areas subject to high humidity, up to, but not
including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew

### VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

# 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

# Weight; Square Feet/Carton

Weight, Square recovation 1420, 1425 – 1.05 lbs/SF; 24 SF/ctn 1910, 1913, – 1.08 lbs/SF; 48 SF/ctn 1991 – 1.08 lbs/SF; 30 SF/ctn 1992 – 1.08 lbs/SF; 36 SF/ctn 1980 – 1.08 lbs/SF; 72 SF/ctn 1984 – 1.08 lbs/SF; 80 SF/ctn 1990 – 1.08 lbs/SF; 24 SF/ctn

# Minimum Order Quantity

### 1 carton Metric Items Available

1910M, 1913M, – Metric items subject to extended lead times and minimum quantities.



Square Lay-in fine texture



Declare<sup>sм</sup> Livina Buildina Challenge Compliant



Calculate LEED contribution at armstrongceilings.com/greengenie

VISUAL SELECTION

### PERFORMANCE SELECTION Dots represent high level of performance

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Edge Profile	Susp. I Pgs. 40' armstrong com/catdv	7-411 Item ceilings. No.	Dimensions (Inches)		UL Clas Acous	stics	II Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	🧐 Impact	<b>∆</b> Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA	® with	AirGuard™ Co	ating <b>Actively</b>	removes formaldeh	yde from ir	ndoor air.						Humi- Guard+			— Dura	bility —				
15/16" Square Lay-in	1	1900	24 x 24 x 3/4"		0.75	35 •	BETTEF ()))	<b>?</b> –	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	1903	24 x 48 x 3/4"		0.75	35	BETTER	R –	Class A	0.90	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16"



Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel

### PHYSICAL DATA

Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish

DuraBrite scrim with factory-applied latex paint

Durabrite scrim with ractory-applied latex paint Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification

Type IV, Form 2, Pattern E

Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy See all LCA information on our EPDs.

### **High Recycled Content**

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton

1900, 1903, - 1.08 lbs/SF; 48 SF/ctn

Minimum Order Quantity

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: ultima) BPCS-4595-517

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Tegular fine texture





1911, 1912, 1914, 1915





See more photos at: armstrongceilings.com/photogallery SEARCH: ultima

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics<sup>®</sup> ceiling panels: NRC + CAC = Total Acoustics<sup>®</sup> performance
- Ultima® panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish —
   Washable, Impact-resistant,
   Scratch-resistant, Soil-resistant
- · Excellent sound absorption

- High CAC for excellent sound blocking – items 1894, 1895, 1951, 1952
- Ceiling-2-Ceiling<sup>™</sup> Post-consumer Recycled Content options: items 1911HRC, 1912HRC, 1914HRC, 1915HRC. 71% Pre-consumer; 15% Post-consumer
- USDA-Certified Biobased Product – 88%
- Available with AirGuard<sup>™</sup> coating

- Visual coordinates with Optima® panels for mixed (open/closed plan) applications
- Item 1912 available with Create!<sup>™</sup> printed images and patterns see pages 245-247
- Non-directional visual reduces scrap and installation time
- Compatible with the TechZone® Ceiling Systems (Pgs. 337-344)
- 30-Year Limited System Warranty against visible sag (excludes items 1905 and 1929), mold, and mildew

### TYPICAL APPLICATIONS

- Offices closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- · Classrooms
- Corridors
- · Lobbies/reception areas
- Department stores/retail

### **COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 316.)







- 1. Ultima® Beveled Tegular
- 2. Ultima® with Suprafine® 9/16" suspension system
- 3. Ultima® with Silhouette® XL® 9/16" suspension system with 1/4" reveal



Tegular fine texture



Declare<sup>sм</sup> Livina Buildina Challenge Compliant



RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

VISUAL SELECTION

## PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dw Pgs. 407-4 armstrongceil com/catdwgs	11 Item	Dimensions (Inches)	UL Cla Acou	ssified estics	P+2 Total	Articulation Class	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	N Scratch	Soil Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIM	A® High	NRC								Bio- Block	Humi- Guard+			— Dura	ıbility —				
15/16" Beveled Tegular		1941	24 x 24 x 7/8"	0.80	35	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	15	1944	24 x 48 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	15	1433	24 x 60 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	15	1436	24 x 72 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	15	Other Size Panels	<b>e</b> W: 12" - 24" / L: 24" - 60" 7/8" Thick	N/A	N/A	_	-	Class A	0.87	•	•	•	•	•	•	•	•	•	•
9/16" Beveled Tegular	29, 44, 4 52, 56	8, <b>1942</b>	24 x 24 x 7/8"	0.80	35	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	29, 44, (48, 52, 56	1942HRC	24 x 24 x 3/4"	0.75	35 •	BETTER (III)	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	29, 44, 4 52, 56	8, <b>1945</b>	24 x 48 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	29, 44, 48,52, 56	1431	30 x 30 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	29, 44, 48,52, 56	1434	24 x 60 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	29, 44, 48,52, 56	ev 1437	24 x 72 x 7/8"	0.80	35 •	BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
	29, 44, 4 52, 56	8, Other Size Panels	e W: 12" - 24" / L: 24" - 48" 7/8" Thick	N/A	N/A	-	-	Class A	0.87	•	•	•	•	•	•	•	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) HRC items not available in other size panels.

# SUSPENSION SYSTEMS



# Interlude® XL® HRC Sonata® XL®

Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

### PHYSICAL DATA

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish
DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

# ASTM E1264 Classification Type IV, Form 2, Pattern E

Fire Class A

TechLine 877 276-7876

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

# High Recycled Content

Mold/Mildew Protection

**Acoustical Performance** 

**Primary (Embodied) Energy** See all LCA information on our EPDs.

Total recycled content of post-consumer recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Suprafine®

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions Third-party certified compliant with California Department

of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### Insulation Value

R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

# 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System.

Details at armstrongceilings.com

Weight; Square Feet/Carton 1945 – 1.14 lbs/SF; 40 SF/ctn 1941, 1942 – 1.125 lbs/SF; 40 SF/ctn 1944 – 1.125 lbs/SF; 40 SF/ctn 1443 – 1.05 lbs/SF; 60 SF/ctn

1436 - 1.04 lbs/SF; 72 SF/ctn 1431 - 1.06 lbs/SF; 62.5 SF/ctn 1434 - 1.05 lbs/SF; 60 SF/ctn 1437 - 1.04 lbs/SF; 72 SF/ctn

# Minimum Order Quantity 1 carton, excludes other size panels

Metric Items Available 1941M, 1944M, 1945M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# $\text{ULTIMA}^{\circledR}$ **ULTIMA®** High NRC

Tegular fine texture



Declare<sup>sм</sup> Living Building Challenge Compliant High Performance Sustainable Ceiling Systems



### **VISUAL SELECTION**

## PERFORMANCE SELECTION Dots represent high level of performance

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VIOUA	L OLLLOTT	J14		I LIII	UIIIIIAIIC	JL JLLL	UTTOIN	DUIST	chieseiii	t High lev	rei oi pei	TUTTIATIC	· C.				Ψ	ΨΨΨ
Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings. com/catdwgs		Dimensions (Inches)	UL C	lassified oustics	II S + 2 S + 3 A Coustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag	Certified Low VOC Emissions	Wash	Mpact	N Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA	<b>A</b> ®								Bio- Block	Humi- Guard+			— Dura	bility —				
15/16" Beveled Tegular	15	1422	6 x 48 x 3/4"	N/A	N/A	-	Class A	0.90	0.90	•	•	•	•	•	•	•	•	•
	15	1917	12 x 24 x 3/4" □	N/A	N/A	-	Class A	0.90	0.90	•	•	•	•	•	•	•	•	•
	15	1993	12 x 48 x 3/4"	N/A	N/A	_	Class A	0.90	0.90	•	•	•	•	•	•	•	•	•
	15	1994	12 x 60 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1995	12 x 72 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1911 1911HRC	24 x 24 x 3/4"	0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1951	24 x 24 x 3/4"	0.60	40	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1894	24 x 24 x 3/4"	0.60	40 •	GOOD	Fire Guard™	0.90	•	•	•	•	•	•	•	•	•	•
	15	1914 1914HRC	24 x 48 x 3/4" 24 x 48 x 3/4"	0.75	35	BETTER (III)	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1985	24 x 60 x 3/4"	0.75	35	BETTER (III)	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1981	24 x 72 x 3/4"	0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15 <b>FS</b>	FastSize™ Panels	W: 4" - 24" / L: 4" - 72" 3/4" thick	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	1423	6 x 48 x 3/4"	N/A	N/A	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1427	6 x 60 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1916	12 x 24 x 3/4" □	N/A	35 •	_	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1996	12 x 48 x 3/4"	0.65	35	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1997	12 x 60 x 3/4"	0.65	35 •	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1998	12 x 72 x 3/4"	0.65	35 •	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1912 1912HRC	24 x 24 x 3/4"	0.75	35 •	BETTER (III)	Class A	0.90	•	•	•	•	•	•	•	:	•	•
	29, 44, 48, 52, 56		24 x 24 x 3/4"	0.60	40	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1895	24 x 24 x 3/4"	0.60	40	GOOD	Fire Guard	0.90	•	•	•	•	•	•	•	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) HRC items not available in other size panels.



Tegular fine texture



Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems

VISUAL SELECTION

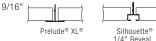
### PERFORMANCE SELECTION Dots represent high level of performance

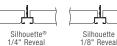
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Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings.	Item No.	Dimensions (Inches)	UL C	(I) lassified oustics	Total Acoustics¹	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
	com/catdwgs			NRC	+ ĈAC	= NRC + CAC	Fire			*	Cert		<b>8</b> /^\		$\overline{\mathbf{A}}$	Con	43	30-) War
ULTIM	A®								Bio- Block	Humi- Guard+			— Dura	ability —				
9/16" Beveled Tegular	29, 44, 48, 52, 56	1915 1915HRC	24 x 48 x 3/4"	0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1986	24 x 60 x 3/4"	0.75	35 •	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1982	24 x 72 x 3/4"	0.75	35 •	BETTER (III)	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1905 1905HRC	30 x 30 x 3/4" 30 x 30 x 3/4"	0.75	35 •	BETTER	Class A	0.90	•	Std	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	1929	30 x 54 x 3/4"	0.75	35	BETTER	Class A	0.90	•	Std	•	•	•	•	•	•	•	•
	29, 44, 48, 52, 56	FastSize™ Panels	' W: 4" - 24" / L: 4" - 72" 3/4" Thick	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
ULTIM	A® with AirGu	ıard™ Coa	i <b>ting</b>	rmaldehyde	from indoo	or air.												
15/16" Beveled Fegular		1901	24 x 24 x 3/4"	0.75	35 •	BETTER (III)	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	15	1904	24 x 48 x 3/4"	0.75	35 •	BETTER (III)	Class A	0.90	•	•	•	•	•	•	•	•	•	•
9/16" Beveled Fegular	29, 44, 1 48, 52, 56	1902	24 x 24 x 3/4"	0.75	35 •	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
J	29, 44, 48, 52,	1906	24 x 48 x 3/4"	0.75	35	BETTER	Class	0.90	•	•	•	•	•	•	•	•	•	•

OOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) HRC items not available in other size panels.

# SUSPENSION SYSTEMS











# Sonata® XL®

### Blizzard White - Suspension System Finish

A color and texture coordinated suspension system to complement Ultima® ceiling panels for a monolithic look and feel.

### PHYSICAL DATA

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

# Surface Finish

DuraBrite with factory-applied latex paint

## Fire Performance

FIFE Performance
ASTM E84 and CAM/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).
Fire Guard™: A fire-resistive ceiling when used
in applicable UL assemblies (Class A).

## **ASTM E1264 Classification** Type IV, Form 2, Pattern E Fire Class A

**Humidity/Sag Resistance** HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. (Excludes items 1905 and 1929)

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

# **VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/ USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### **High Recycled Content**

Contains greater than 50% total recycled content.

Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings

# Insulation Value

R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System.

# Details at armstrongceilings.com

Details at armstrongceilings.com

Weight; Square Feet/Carton
1917, 1993 – 1.05 lbs/SF; 24 SF/ctn
1422 – 1.08 lbs/SF; 24 SF/ctn
1905 – 1.05 lbs/SF; 24 SF/ctn
1905 – 1.05 lbs/SF; 62.5 SF/ctn
1911, 1912, 1914, 1915 – 1.05 lbs/SF; 48 SF/ctn
1916, 1996 – 1.05 lbs/SF; 24 SF/ctn
1423 – 1.08 lbs/SF; 24 SF/ctn
1427 – 1.07 lbs/SF; 24 SF/ctn
1427 – 1.07 lbs/SF; 68 SF/ctn
1929 – 1.02 lbs/SF; 68 SF/ctn
1991, 1902, 1904, 1906 – 1.08 lbs/SF; 48 SF/ctn
1997, 1994 – 1.05 lbs/SF; 30 SF/ctn
1998, 1995 – 1.05 lbs/SF; 36 SF/ctn
1981, 1982 – 1.08 lbs/SF; 72 SF/ctn
1894, 1985 – 1.08 lbs/SF; 72 SF/ctn 1894, 1985, 1986 - 1.08 lbs/SF; 80 SF/ctn

Minimum Order Quantity

### Metric Items Available

1905M, 1912M, 1912MHRC, 1914M, 1915M, 1916M -Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

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fine texture





Ultima® Vector® panels are great for projects where plenum space is limited and a sleek, modern visual is desired.

### **KEY SELECTION ATTRIBUTES**

- Smooth, clean, durable finish Washable, Scratch-resistant, Soil-resistant
- Ultima® Vector® panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- 1/4" reveal resulting in a monolithic appearance (Vector)
- Downward accessible for minimal plenum height (Vector)
- USDA Certified Biobased Product 88%
- Visual coordinates with Optima® for mixed (open/closed plan) applications
- Item 1920 available with Create!<sup>™</sup> printed images and patterns, see pages 245-247
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- Fast Size<sup>™</sup> panels recommended for fixture integration

### TYPICAL APPLICATIONS

- Renovation installs on existing 15/16" suspension
- Offices
- Healthcare assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Corridors
- · Lobbies/reception areas

# COLOR



(WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 320.)





- 1. Ultima® Vector®
- 2. Ultima Vector with Prelude® 15/16" suspension system



High Performance

Sustainable

Ceiling Systems

Declare<sup>sм</sup>

Livina Buildina

Challenge Compliant

LOCATION DEPENDENT

### VISUAL SELECTION

### PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge	Susp. Dwg. Pgs. 407-411	Item	Dimensions	UL Cla Acou	ssified		Total Acoustics¹	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
Profile	armstrongceilings. com/catdwgs	No.	(Inches)	NRC	- CAC	=	Tota Aco	Fire	•		*	Cert			$\overline{}$	Rec	3	30-) War
ULTIMA® Vect	tor®									Bio- Block	Humi- Guard+		[	Durabilit	y ——			
1/4" Reveal	74	1921	12 x 24 x 3/4" □	N/A	N/A		-	Class A	0.90	•	•	•	•	•	•	•	•	•
) <b>c</b>	74	1920	24 x 24 x 3/4"	0.70	33		_	Class A	0.90	•	•	•	•	•	•	•	•	•
	74 <b>FS</b>	FastSize™ Panels	W: 4" – 24" / L: 4" – 24" 3/4" Thick	N/A	N/A		_	Class A	0.90	•	•	•	•	•	•	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.) GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16"



Prelude®

VECTOR – FIXTURE TRIMS									
Item No.	Length	Color	Substrate	Pcs per Carton					
5790	12"	White	Extruded PVC	48					
5791	24"	White	Extruded PVC	48					
5792	30"	White	Extruded PVC	48					
5793	48"	White	Extruded PVC	48					

Item No.			Pcs per Carton
440A		Vector Border Clip (For all installations)	50
442 A	<b>F</b>	Vector Hold Down Clip (For all installations)	50
7425		24" Stabilizer Bar	100
7445		48" Stabilizer Bar	100
7870	5	Spring Border Clip (For installations with the panel resting on the wall molding)	1,000

# PHYSICAL DATA

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane.

# Surface Finish

DuraBrite with factory-applied latex paint.

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

# **ASTM E1264 Classification**

Type IV, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment

### **Acoustical Performance**

CAC testing conducted using Prelude® XL® suspension

### Primary (Embodied) Energy

High Recycled Content
Contains greater than 50% total recycled content.
Total recycled content based on product composition
of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

### 30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton** 1920 – 1.08 lbs/SF; 48 SF/ctn 1921 – 1.08 lbs/SF; 24 SF/ctn

Minimum Order Quantity
1 carton, excludes FastSize™ sizes

TechLine / 1 877 276-7876 armstrongceilings.com/commercial (search: ultima) BPCS-3313-517

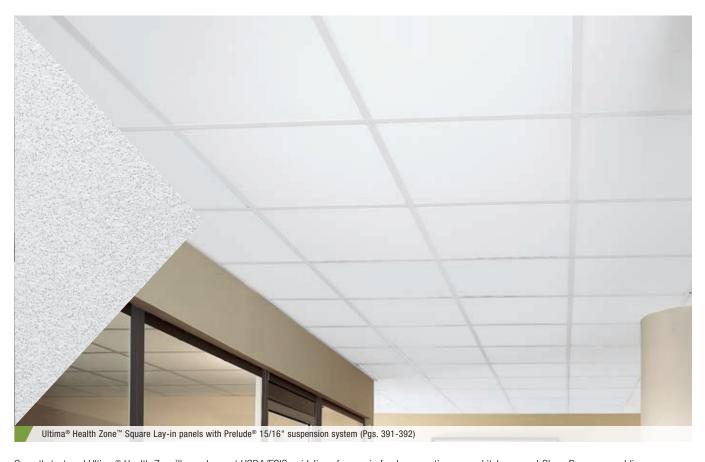
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# ULTIMA® Health Zone™ ULTIMA® Health Zone™ High NRC

Square Lay-in fine texture





Smooth-textured Ultima® Health Zone™ panels meet USDA/FSIS guidelines for use in food preparation areas, kitchens, and Clean Room assemblies, is water-repellent, and provides excellent sound absorption and blocking, addressing HIPAA requirements.

### **KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Ultima® panels are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today.
- Clean Rooms up to ISO Class 5 (Class 100) (items 1935 & 1938)
- Exceeds FGI Guidelines for acoustics and cleanability in general healthcare spaces
- Meets USDA/FSIS guidelines for use in food processing areas
- Long-lasting water-repellency; Washable and Scrubbable
- USDA Certified Biobased Product 88%
- Smooth, clean, durable finish Impact-, Scratch-, and Soil-resistant; safe for use with disinfectants
- · Excellent sound absorption
- 30-Year Limited System Warranty against visible sag, mold and mildew, and bacterial growth

### TYPICAL APPLICATIONS

Clean Rooms (item 1935) Healthcare

- · Patient rooms
- · Treatment rooms
- · Nurses' stations
- Emergency rooms
- Corridors
- Lavatories and restrooms
- · Kitchen/food prep areas

### **COLOR**



### **DETAILS**





- 1. Ultima® Health Zone™ Square Lay-in
- 2. Ultima<sup>®</sup> Health Zone<sup>™</sup> High NRC Square Lay-in panels with Clean Room<sup>™</sup> 15/16" suspension system



Calculate LEED contribution at armstrongceilings.com/greengenie

Square Lay-in fine texture

Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Susp. Dwg.  Edge Pgs. 407-411 Item Dimensions armstrongeellings. No. (Inches)	UL Classified Acoustics  NRC + CAC =	NEC OT ■	Light Reflect & Mildew	VOC Emissions VOC Emissions Repel Repel	Scrub   Impact   Scratch   Scratch	_ 3t ?t
ULTIMA® Health Zone™ High NRC			Block Guard+		— Durability —	
15/16" 1, 6 <b>1445</b> 24 x 24 x 1" Square Lay-in	0.80 35 • •	BEST Class 0	0.86 • •		• • • •	• • •
1, 6 1448* 24 x 48 x 1" ULTIMA Health Zone	0.80 35	Α.	0.86 • •	• • •	• • • •	• • •
15/16" 1, 6 1935 24 x 24 x 3/4" Square Lay-in	0.70 38	Α.	0.86	• • •	• • • •	• • •
1, 6 <b>1938*</b> 24 x 48 x 3/4"	0.70 38	Α.	0.86 • •	• • •	• • • •	• • •

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16"





### PHYSICAL DATA

Material Wet-formed mineral fiber with DuraBrite® acoustically transparent water-repellent membrane

### Surface Finish

DuraBrite with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled).

# **ASTM E1264 Classification**

Type IV, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew & Bacterial Protection Health Zone™ ceiling panels with BioBlock® Plus performance resist the growth of mold and mildew, and resist odor- and stain-causing bacterial growth.

VOC Emissions
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance CAC testing conducted using Prelude® XL® suspension

**Primary (Embodied) Energy** See all LCA information on our EPDs.

High Recycled Content Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

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Details at armstrongceilings.com

Cleaning Recommendations
To clean panel, use a clean, white cloth with water
or a mild detergent, and wipe surface. To disinfect panel,
lightly spray surface and wipe clean with a clean,
white cloth. Acceptable colorless disinfectants include:

- Sodium hypochlorite · Hydrogen peroxide
- Quaternary ammonium

Weight; Square Feet/Carton 1935, 1938 – 1.08 lbs/SF; 48 SF/ctn 1448, 1445 – 1.0 lbs/SF; 40 SF/ctn

### Minimum Order Quantity

1 carton



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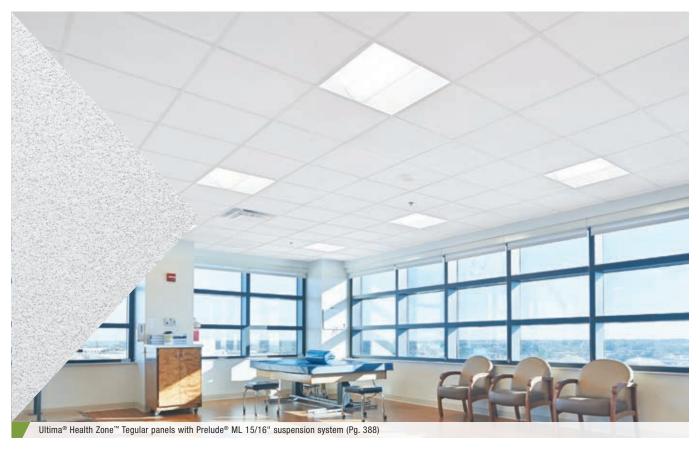
 $\overline{\mathbb{Z}}$ 

Item does not have painted edges

# ULTIMA® Health Zone™ ULTIMA® Health Zone™ High NRC

Tegular fine texture





Smooth-textured Ultima® Health Zone™ meets USDA/FSIS guidelines for use in food preparation areas, kitchens and Clean Room assemblies, is water-repellent, and provides excellent sound absorption and blocking, addressing HIPAA requirements.

### **KEY SELECTION ATTRIBUTES**

- · Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Ultima<sup>®</sup> panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- · Clean Rooms up to ISO Class 5 (Class 100) (items 1935 & 1937)
- · Exceeds FGI Guidelines for acoustics and cleanability in general healthcare spaces
- · Meets USDA/FSIS guidelines for use in food processing areas
- · Long-lasting water-repellency; Washable and Scrubbable
- USDA Certified Biobased Product 88%
- Smooth, clean, durable finish Impact-, Scratch-, and Soil-resistant; safe for use with disinfectants
- · Excellent sound absorption
- · 30-Year Limited System Warranty against visible sag, mold/mildew, and bacterial growth

### TYPICAL APPLICATIONS

Clean Rooms (item 1937) Healthcare:

- · Patient rooms
- · Treatment rooms
- · Nurses' stations
- · Emergency rooms
- Corridors
- · Lavatories and restrooms
- · Kitchen/food prep areas

### **COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 324.)







- 1. Ultima® Health Zone™ High NRC panel with panel Suprafine® 9/16" suspension system
- 2. Ultima® Health Zone™ High NRC Square Tegular panel with Prelude® XL® 15/16" suspension system
- 3. Ultima® Health Zone™ High NRC Square Tegular with Interlude® XL® HRC 9/16" suspension system



Tegular fine texture

VISUAL SELECTION

Declare<sup>sм</sup> Livina Buildina

High Performance Sustainable Ceiling Systems

Challenge Compliant

PERFORMANCE SELECTION Dots represent high level of performance

\$\$\$\$

Edge Profile	Susp. Dwg. Pgs. 407-411 armstrongceilings com/catdwgs		Dimensions (Inches)	UL Cla	assified ustics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash Wash	Scrub	Impact	N Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIN	1A® Health 2	Zone™ I	High NRC						Bio- Block	Humi- Guard+				— Dura	bility —					
15/16" Beveler Tegula		1447	24 x 24 x 1"	0.80	35 •	BEST (III)	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
9/16" Bevele Tegula	29, 44, 48, d 52, 56 r	1446*	24 x 24 x 1"	0.80	35 •	BEST (III)	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
ULTIN	IA Health Zo	one																		
15/16" Beveler Tegula		1937	24 x 24 x 3/4"	0.70	38	BETTER (III)	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•
9/16" Bevele Tegula	29, 44, 48, d 52, 56	1936	24 x 24 x 3/4"	0.70	35 •	BETTER (III)	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16" Prelude<sup>®</sup>

Clean Room<sup>1</sup> AL Prelude® Plus XI ® (Steel or Aluminum) SS Prelude Plus XL

9/16" Silhouette® XL®

1/4" Reveal









### PHYSICAL DATA

### Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent water-repellent membrane

Surface Finish
DuraBrite with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification Type IV, Form 2, Pattern E Fire Class A

Humidity/Sag Resistance HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew & Bacterial Protection
Health Zone ceiling panels with BioBlock® Plus
performance resist the growth of mold and mildew,
and resist odor- and stain-causing bacterial growth.

TechLine / 1 877 276-7876

(search: ultima) BPCS-5147-517

armstrongceilings.com/commercial

VOC Emissions
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension
system for 15/16" edge profile and Silhouette® XL®
9/16" profile.

**Primary (Embodied) Energy** See all LCA information on our EPDs.

## **High Recycled Content**

Contains greater than 50% total recycled content. Total recycled content based on product composition of postconsumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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Insulation Value R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

# **30-Year Performance Guarantee & Warranty** When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### **Cleaning Recommendations**

To clean panel, use a clean, white cloth with water or a mild detergent, and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:

- Sodium hypochlorite
  - · Hydrogen peroxide

### Quaternary ammonium

**Weight; Square Feet/Carton** 1936, 1937 - 1.08 lbs/SF; 48 SF/ctn 1447, 1446 - 1.0 lbs/SF; 40 SF/ctn

Minimum Order Quantity 1 carton

<sup>\*</sup> Item does not have painted edges







Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

Tectum® Tegular 1" ceiling panels can provide improved sound absorption and sound blocking with the addition of mineral fiber infill panels.

Acoustical absorption is important to:

- Reduce noise levels and reverberation time, as well as enhance speech intelligibility

A continuous Tectum<sup>®</sup> 1" thick Tegular ceiling with an acoustical infill panel provides sounds absorption (NRC 0.90, reducing reverberation by 88%, see example below).

Tectum® Tegular ceiling panels installed with an acoustical infill panel achieve Total Acoustics® Performance.

### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



### CAC (Ceiling Attenuation Class)

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC > 35 is considered high performance. CAC is important between closed spaces, and from closed rooms to adjacent spaces, such as corridors and open office spaces.



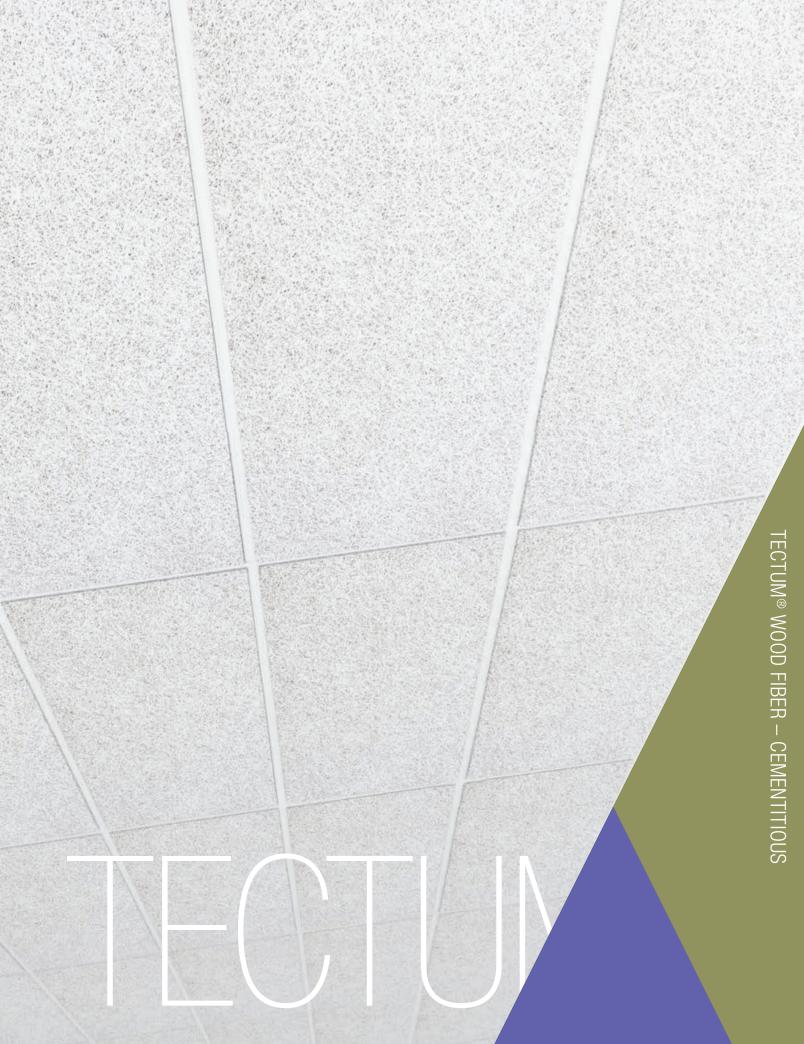
Example:	Exposed Structure	Continuous Ceiling
<b>,</b>		
5,000 SF Exposed Structure (50' x 100'), 15' to deck,	No Treatment	Continuous Tectum Tegular

(50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet	No Treatment (0% Coverage)	Continuous Tectum Tegular ceiling panels and 1713 acoustical infill panel
Ceiling	Exposed Structure	Suspended 60" Below Deck
NRC	0	0.90
CAC	3.4 sec	0.35
Total Acoustics®	-	BEST (()))
Reverberation Time	3.4 sec	0.4 sec
RT Improvement	ref	88%
SPL Reduction	ref	-5.6 dB

For definitions of acoustical terms, see pages 473-474 in this catalog.







# **TECTUM®** WOOD FIBER - CEMENTITIOUS CEILINGS At-a-Glance



helping to bring your one-of-a-kind ideas to life

Icons are used throughout the catalog to help you quickly identify key products with high level of performance. **High Acoustics** Total Acoustics™ (()))

### **CEILINGS**



Tectum® Concealed Panels





Tectum® Lay-In Panels Pgs. 329-330







Tectum® Tegular Panels Pgs. 331-332



**ICON KEY** 

or greater AND CAC of 35 or higher when used with acoustic infill panels. Product has NRC (Noise Reduction

Perforated product has both NRC of 0.70



Coefficient) 0.70 or greater.



Sabin measures are noted under canopies and clouds products

### Fire Performance Class A

### Seismic



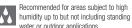
Category D, E & F

### BioBlock®





# HumiGuard® Plus





### Excellent resistance to surface scratching,

scuffing or chipping as per Hess Rake Test.

### Impact Resistance Excellent resistance to surface impact

as per Falling Ball Test.

### Color Availability



Available in color.

### Sustainability



Product is part of Sustain  $\ensuremath{^{\text{TM}}}$  Portfolio and meets the most stringent sustainability compliance standards today.



























# OTHER TECTUM® WOOD FIBER - CEMENTITIOUS PRODUCTS IN THIS CATALOG **CLOUDS**

### BLADES™ & BAFFLES



Tectum® Blades"

Pg. 66

Featured in Blades<sup>™</sup> & Baffles Section



Tectum® Shapes & Clouds Featured in Clouds & Canopies Section







### CEILINGS & WALLS - DIRECT-TO-DECK



Tectum® Direct-Attach Ceiling & Wall Panels

















Pg. 448



Tectum® Finalé™

Ceiling & Wall Panels

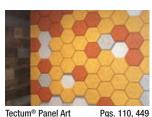
Featured in Direct-to-Deck







Pgs. 109, 447



Tectum® Panel Art Featured in Direct-to-Deck Ceiling Section & Walls Section













Tectum® Fabric Walls Featured in Walls Section





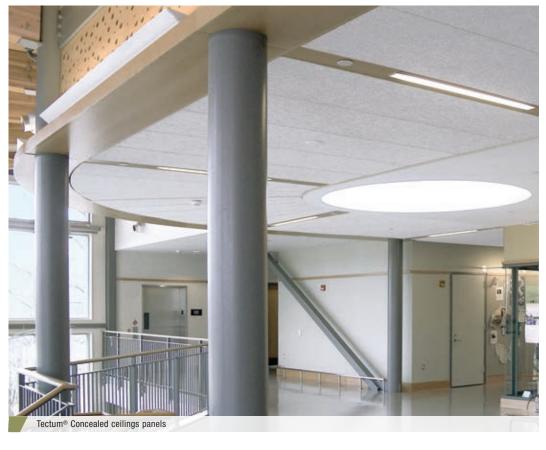


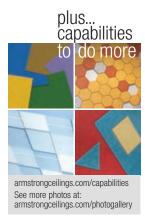




# ▼ TECTUM® Concealed

### **Custom Ceiling Panels** coarse texture



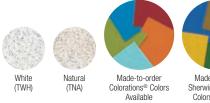


Tectum® Concealed combines abuse resistance and accessibility with a completely concealed grid system.

### **KEY SELECTION ATTRIBUTES**

- · Fully concealed ceiling system installs on standard 15/16" suspension system
- Panel sizes in 1-1/2" and 2" thickness; widths: 23-3/4"; lengths 48"-144"
- Available in White, Natural, and made-to-order Colorations® colors and Sherwin-Williams® colors
- · Abuse resistant for active spaces

# COLORS Due to printing limitations, shade may vary from actual product.





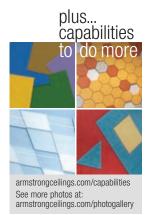
### **DETAILS**











Tectum® Lay-in ceiling panels provide durable, sustainable, acoustical options for a wide variety of applications.

### **KEY SELECTION ATTRIBUTES**

- · Durable for heavy use interiors
- Tectum® panels are part of the Sustain  $\ensuremath{^{\text{\tiny TM}}}$ portfolio and meet the most stringent sustainability standards today
- · Wide variety of color options available, including made-to-order Colorations® and Sherwin-Williams® colors
- · Can be field painted up to six times without impacting acoustic or fire performance
- · Short lead times

### TYPICAL APPLICATIONS

- Gymnasiums
- Auditoriums
- · Multi-purpose Spaces
- · Exposed Structures
- · Acoustical Retrofits
- · Education Spaces

# $\begin{tabular}{ll} \textbf{COLORS} & \textbf{Due to printing limitations, shade may vary from actual product.} \end{tabular}$



Natural (TNA)





Made-to-order Colorations® Colors Available

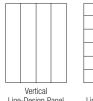


Made-to-order Sherwin-Williams® Colors Available

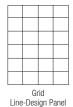
Note: Colorations® colors and panels greater than 1" thick are not included in Sustain $^{\text{\tiny TM}}$ portfolio.

### LINE DESIGN CAPABILITIES

Available through special order







**DETAILS** 





- 1. Tectum® Lay-in
- 2. Tectum® Lay-in with Prelude® 15/16" suspension system

Note: Panel edges are unfinished.

Lay-in coarse texture



High Performance Sustainable Ceiling Systems



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Scratch Impact

30-Yr Warranty

ACOUSTICAL INFORMATION

For LEED contribution visit armstrongceilings.com/greengenie

# VISUAL SELECTION

### Dots represent high PERFORMANCE SELECTION

# level of performance.

Edge Profile	Suspension Detail Dwg. Pgs. 407-411		Dimensions (Inches)	Fire Rating	Light Reflect	Anti-Molc	Sag Resist	Certified Low VOC Emissions	Wash Wash	Impact	
	M® Lay-in	Ilnon Reque	st)		(White Only)	BioBlock	Humi- Guard+			Durability	у -

Challenge Compliant

(FSC Cer		vailable Upon Request)
15/16" Square Lay-in	1	<b>8184T10</b> 24 x 24 x 1"

8183T10	24 x 48 x 1"	

Other Size
Panels

1", 1-1/2", or 2" thickness

Class A 0.75

Class A

Up to 0.75

Class A Up to 0.75

Up to

Panel No. Š. Item III CAC 8184T10\_ 0.40 8183T10 0.40 8184T10\_ \_ 1713 0.90 33 8183T10\_ 1713 0.90 33

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+ BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

♦ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural, TWH = White (e.g. 8184T10 <u>T W H</u>) For special sizes, and colors, call TechLine at 1 877 276-7876.

FSC®-certified panels available upon request.

### **ACCESSORIES**



Tectum® Hold-Down Clip 8178T10 - 1" Panel Thickness 8178T20 - 1-1/2" Panel Thickness

Attaches to main beams and cross tees behind lay-in ceilings; helps prevent panel displacement from non-deliberate contact by basketballs and other forces from below the ceiling.

1713

School Zone™ Fine Fissured Lay-in Acoustical Panel 24 x 24 x 3/4" White 12 pcs/ctn

### SUSPENSION SYSTEMS

15/16"

Prelude® XI® Suspension System

PHYSICAL DATA

Material

FSC Certified panels available upon request.

Cementitious Wood Fiber; FSC®-certified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276 7876.

Surface Finish

Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

Fire Performance

Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

**VOC Emissions** 

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol

Humidity/Sag Resistance HumiGuard® Plus panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Installation Considerations

Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

Primary (Embodied) Energy

See all LCA information on our EPD's.

**Application Considerations** 

Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels.

Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

Design Support

Project management assistance is available by calling TechLine at 1 877 276 7876.

Specification Consideration FSC Certified panels available upon request. Attention: For FSC®-certified wood products to maintain

their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

Seismic Restraint

Tectum® Lay-in panels are approved for application in all seismic areas when installed per Armstrong Ceilings Installation Instructions.

Warranty 30-Year Performance Guarantee and Warranty when installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton

- 1.65 lbs/SF 8183T10 - 4 pcs/ctn 8184T10 - 8 pcs/ctn

TechLine / 1 877 276-7876 armstrongceilings.com/tectum

BPCS-5615-517

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Tectum® Tegular ceiling panels provide durable, sustainable, acoustical options for a wide variety of applications.

### **KEY SELECTION ATTRIBUTES**

- · Get Total Noise Control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® Performance
- Tectum® panels are part of the Sustain  $^{\!{\scriptscriptstyle \mathsf{TM}}}$ portfolio and meet the most stringent sustainability standards today (1" panels)
- · Durable for heavy use interiors
- · Wide variety of color options available, including made-to-order Colorations® and Sherwin-Williams® colors
- · Short lead times
- Can be field painted up to six times without impacting acoustic or fire performance

### TYPICAL APPLICATIONS

- Gymnasiums
- · Auditoriums
- · Multi-purpose Spaces
- Corridors
- · Education Spaces

## 



(TWH)



Natural (TNA)



Made-to-order Colorations® Colors Available



Made-to-order Sherwin-Williams® Colors Available

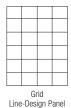
Note: Colorations® colors and panels greater than 1" thick are not included in Sustain $^{\text{\tiny TM}}$ portfolio.

### LINE DESIGN CAPABILITIES

Available through special order







**DETAILS** 





- 1. Tectum® Tegular
- 2. Tectum® Tegular with Prelude® 15/16" suspension system

Note: Panel edges including visible Tegular edge are unfinished.

Tegular coarse texture

Declare<sup>™</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems



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armstrongceilings.com/greengenie

For LEED contribution visit

VISUAL SELECTION

### PERFORMANCE SELECTION

Dots represent high level of performance.

ACOUSTICAL INFORMATION

Edge Profile	Suspension Detail Dwg. Pgs. 407-411		Dimensions (Inches)	Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash Wash	Impact	Scratch Scratch	30-Yr Warranty	Item No.	Infill Panel Item No.	NRC +	CAC E	II Para Total Para Acoustics
	M® Tegular tified Available	Upon Request)			(White Only)	BioBlock	Humi- Guard+			Durability	у ——		8186T10	-	0.40	-	_
15/16" Square Tegular	8	8186T10	24 x 24 x 1"	Class A	Up to 0.75	•	•	•	•	•	•	•	8185T10	_	0.40		
\(	8	8185T10	24 x 48 x 1"	Class A	Up to 0.75	•	•	•	•	•	•	•	8186T10	1713	0.90	35	BEST
													8185T10	1713	0.90	35	BEST
	8	Other Size Panels	1", 1-1/2", or 2" thickness	Class A	Up to 0.75	•	•	-	•	•	•	•	<sup>1</sup> Total Acoustics combination of performance in <b>GOOD</b> (NRC 0.6 <b>BETTER</b> (NRC 0.8 <b>BEST</b> (NRC 0.8	noise re one pro 60-0.65; 0.70-0.7	eduction and duct. CAC 35+) 5; CAC 35-	nd sound-b	
For spe	cial sizes, and col	ing, include the app ors, call TechLine at available upon req		NA = Natural,	TWH = \	White (e.g.	8185T10	<u>TWH</u> )									
ACOUS	STICAL INFI	LL PANELS											SUSPENSIO	N SY	STEMS		
1713		I Zone® Fine Fis 24" x 3/4"	sured Lay-in Acoustica White		cs/ctn								15/16"		de® XL® ion Syste	· em	

### PHYSICAL DATA

# Material FSC Certified panels available upon request.

Cementitious Wood Fiber; FSC®-cerified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 ARMSTRONG.

### Surface Finish

Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

### Fire Performance

Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

### **VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Humidity/Sag Resistance HumiGuard® Plus panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### **Installation Considerations**

Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

## **Application Considerations**

Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels. Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood

Specification Consideration FSC Certified panels available upon request. Attention: For FSC®-certified wood products to maintain

their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

### Seismic Restraint

Tectum Tegular panels are approved for application in all seismic areas when installed per Armstrong Ceilings Installation Instructions.

### Warranty

30-Year Performance Guarantee & Warranty when installed with Armstrong® Suspension System. Details at armstrongcellings.com

### Weight; Square Feet/Carton

1" - 1.65 lbs/SF 8186T10 - 8 pcs/ctn 8185T10 - 4 pcs/ctn

TechLine / 1 877 276-7876 armstrongceilings.com/tectum

LEED® is a registered trademark of the U.S. Green Building Council. Sherwin-Williams® is a registered trademark of The Sherwin-Williams Company. Declare<sup>™</sup> is a service mark of The International Living Future Institute. FSC® is a registered trademark of FSC Forest Stewardship Council, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates. © 2016-2017 AWI Licensing LLC Printed in the United States of America















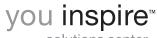






# INTEGRATED CEILING SOLUTIONS

At-a-Glance



helping to bring your one-of-a-kind ideas to life

solutions center

### INTEGRATED SERVICES



TECHZONE® Ceiling Systems













DC FLEXZONE"





**Data Centers** 







### Pgs. 347-348

### LIGHTING

### Linear Lighting



Acoustical On-Center Linear Lighting



Coves



**Drywall Linear Lighting** 

Pg. 350



FORMATIONS™ Clouds **Linear Lighting Kits** 



Pg. 351





Light Coves - Indirect AXIOM® Trim











Recessed Downlighting



Pgs. 353-354

### **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key product attributes

### **High Acoustics**

## Total Acoustics®



Product has both NRC of 0.60 or greater AND CAC of 35 or higher.



Product has AC (Articulation Class) 170 or greater.

### Fire Performance



Fire Guard™/Fire Resistive products tested in specific UL floor/ceiling or roof/ ceiling design assemblies.

### Seismic





### High Light Reflectance



Light reflectance average of 0.83 or greater. White only.

### Humidity/Sag Resistance

### HumiGuard® Plus



Superior sag resistance, recommended for areas subject to high humidity, up to standing water and outdoor applications.

### **High Durability** Washability



Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per ASTM D4828.

### Scrubbability



Withstands up to 150 scrub cycles using a scrubbability tester as per ASTM D2486

### Impact Resistance



Excellent resistance to surface impact as per striking hall test

### Scratch Resistance



 Excellent resistance to surface scratching, scuffing or chipping as per Hess Rake Test.



Excellent resistance to dirt and/or grease: for lasting value and performance as per simulated air diffuser soiling test.

### Color Availability



Available in color.

### Sustainability



Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.



Product is recyclable through the Armstrong Ceilings Recycling Program.

# SHADE POCKETS

₩ **9** Pg. 355

Light Coves - Direct

AXIOM® Trim



System Shade Pockets







AXIOM® Building Perimeter Shade Pockets (Lutron®-compatible)





Pgs. 363-364

### **COMMON BUILDING CONDITIONS**



Transitions



Pg. 370





T-Bar LED Linear Lighting

Pg. 352



Pa. 374



Corridors Pgs. 375-376





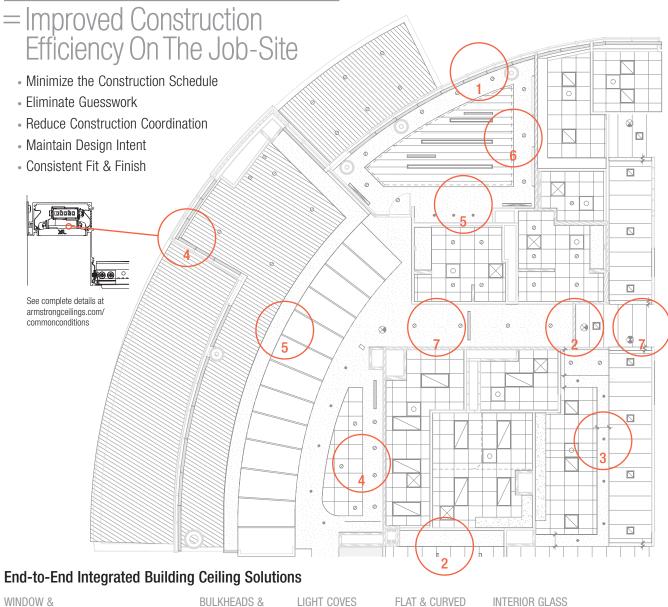


Pgs. 367-369

Pockets Pg. 366

# Tackle Common Job-Site Conditions with Integrated Ceiling Solutions

Time & Labor Saving Solutions + Ceiling Construction Expertise



WINDOW & **TRANSITIONS** 

1 Axiom® Building

**Pockets** 

Perimeter Shade

2 Transition Molding & Axiom® Transitions

**BULKHEADS &** 

3 QuikStix™ Drywall

Framing for Soffits



Axiom® Direct & Indirect Light Coves FLAT & CURVED **DRYWALL** 



5 Drywall Grid System



6 Axiom® Glazing Channel



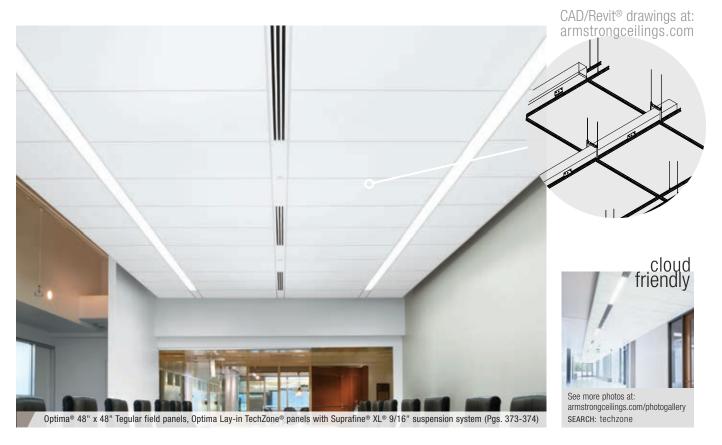
**CORRIDORS** 

7 SingleSpan® for ACT & ShortSpan® for Drywall



# INTEGRATED SERVICES TECHZONE® Ceiling Systems





Organize lighting, air diffusers/returns, sprinkler systems into 4", 6", or 12" wide technical zones.

### **KEY SELECTION ATTRIBUTES**

- A clean, monolithic look using standard ceiling panels and suspension system
- Now many options are part of the Sustain<sup>™</sup> Ceiling Systems portfolio, meeting the most stringent sustainability compliance standards today
- Available with Lyra® PB, Optima®, Calla®, Ultima®, MetalWorks™ and WoodWorks® panels
- A range of compatible fixtures from partner companies that are prequalified for fit and finish. Visit armstrongceilings.com/techzone for links to partners for lighting, chilled beams, diffusers and sprinklers

### **CEILING PANEL OPTIONS**

Warm wood, cool metal, bright white - the choice is yours.

### CALLA®\* OR LYRA® PB\*

- Smooth drywall-like ceiling visual
- Coordinates with Blizzard White suspension system and Axiom® trim
- High light reflectance
- High durability
- Total Acoustics® performance
  - Reduces reverberation
  - Enhances speech privacy
  - Calla® 0.85 NRC, 35 CAC
  - Lyra® PB High CAC 0.95 NRC, 42 CAC

# W00DW0RKS®

- Warm, rich FSC® certified wood in five standard finishes
- Total Acoustics Performance (NRC + CAC) available with select perforated ceiling panels installed with acoustical infill panel

### OPTIMA® or ULTIMA®\*

- Non-directional DuraBrite® scrim surface for:
- Excellent durability
- Superior light reflectance to enhance daylighting and save energy
- Total Acoustics performance:
  - Reduces noise reverberation
  - Enhances speech privacy
  - Ultima 0.75 NRC, 35 CAC
  - · Outstanding noise reduction
  - Optima 0.90+

### METALWORKS™\*

- Three standard finishes for field and technical panels
- Total Acoustics Performance (NRC + CAC) available with select perforated ceiling panels installed with acoustical infill panel
- · Exceptionally durable
- Washable
- Scrubbable
- Soil-resistant
- Impact-resistant

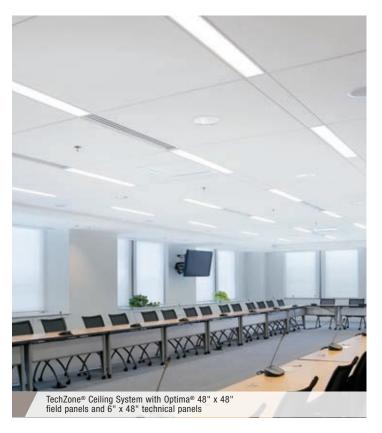


<sup>\*</sup>Part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today

# INTEGRATED SERVICES

# TECHZONE® Ceiling Systems

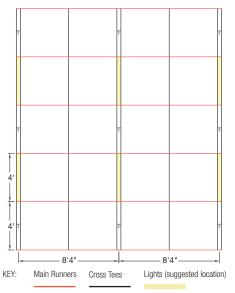
Designing Your TechZone® Ceiling



### STEP 1: DESIGN YOUR LAYOUT

See all 50+ Layouts at armstrongceilings.com/techzone See our lighting options/partners (Pg. 344), if that helps determine your layout module

Ceiling Module 4' On-Center Spacing 8'4" Field Panel 48" x 48"



### STEP 2: CHOOSE YOUR FIELD PANELS\*

LYRA® PB†, CALLA®†, OPTIMA®, OR ULTIMA®†



### W00DW0RKS®†

Natural Variations™ (Real Wood Veneers)



Maple (NMP)











(BAP)

### **Perforation Options**

(1:2 scale shown





Round Straight Rg 6006 (W2)

METALWORKS™†











(M1)

Rd 1612 (M15) (field panels only)

<sup>†</sup> Total Acoustics® ceiling panels offer an ideal combination of noise reduction and sound-blocking performance in one product.

# INTEGRATED SERVICES

# TECHZONE® Ceiling Systems

Designing Your TechZone® Ceiling

### **EDGE DETAILS**



Ultima<sup>®</sup>, Optima<sup>®</sup>, Lyra<sup>®</sup> PB, and Lyra<sup>®</sup> PB High CAC

MetalWorks™

Unperforated

Square Lay-in

Square Tegular



Ultima and Calla® Beveled Tegular

MetalWorks

Unperforated

Vector®

Technical Panels only



Optima, Lyra PB, and Lyra® PB High CAC





0ptima Vector®





MetalWorks Square



WoodWorks® Square Tegular

## FIELD PANEL OPTIONS **VISUAL SELECTION**

**PERFORMANCE** Dots represent high level of performance.

		tics	tics1	Arcticulation Class	8									a E	
Description		Acoustics	Total Acoustics <sup>1</sup>	Arctici Class	Fire Performance	Light Reflect	Sag Resist	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
	NRC	+ ÇAC	= NRC CAC	AC (F	Fire	•	*		·	<b>9</b>	<u></u>	<u></u>	Rec	43	30-'
						(White Only)	Humi- Guard+			Durability					
Lyra PB	0.95	N/A	-	190	Class A	0.88	•	•	_	•	•	•	71%	•	•
Lyra® PB High CAC	0.95	42 •	-	200	Class A	0.88	•	•	-	-	•	•	59%	•	•
Optima® 1" thick panels	0.95	N/A 26*	-	190	Class A	0.90	•	•	-	•	•	•	71%	•	•
Optima 3/4" thick panels	0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	71%	•	•
Calla®	0.85	35	BEST	170	Class A	0.86	•	•	_	•	•	•	Up to 76%	•	•
Ultima®	0.75	35 •	BETTER	N/A	Class A	0.90	•	•	-	•	•	•	Up to 80%	•	•
Ultima (items 1905, 1929)	0.75	35 •	BETTER	N/A	Class A	0.90	Std	•	-	•	•	•	Up to 80%	•	1-Yr
WoodWorks® Unperforated	N/A	38	-	N/A	Class A	N/A	Std	-	-	-	-	-	92%	-	1-Yr
WoodWorks W2 Perforated with infill panel	0.40	28	-	N/A	Class A	N/A	Std	-	-	-	-	-	92%	-	1-Yr
MetalWorks™ Unperforated	0.40	28	-	N/A	Class A	0.89	•	•	•	•	-	•	25%	-	1-Yr
MetalWorks M15 Perforated	0.70	38 <sup>†</sup> ●	BETTER	N/A	Class A	0.77	•	•	•	•	-	•	25%	-	1-Yr
MetalWorks M15 Perforated with infill panel	0.90	N/A	_	N/A	Class A	0.77	•	•	•	•	_	•	25%	-	1-Yr

<sup>†</sup> With Item #747 mineral fiber backing \* With CAC backing 1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+) WoodWorks® WoodWorks MetalWorks™

			Lyra® PB	Optima®	Calla®	Ultima®	WoodWorks® Unperforated	WoodWorks Perforated	MetalWorks™ Unperforated	MetalWorks Perforated
Suspension Dimension	Edge Profile	Dimensions					Item No.			
15/16"	Prelude® XL®	20" x 60"		3156††						
	Square Lay-In	24" x 24"	8732PB	3152 <sup>††</sup> /3150**		1910 <sup>†</sup>				
		24" x 48"		3153 <sup>††</sup> /3151**		1913 <sup>†</sup>				
	, ,	24" x 60"		3164		1984				
		24" x 72"	8450PB	3161**††		1980†				
		24" x 96"		3162**††						
		30" x 30"	8452PB	3158††		1905†				
		30" x 60"	8453PB	3157††						
		48" x 48"	8370PB	3160 <sup>††</sup> /3160PB						
		48" x 96"		3154						

<sup>\*\*</sup> These panels are 3/4" thick.



<sup>\*\*</sup> Environmental Product Declaration EPD

# INTEGRATED SERVICES TECHZONE® Ceiling Systems

### FIELD PANELS

			Lyra® PB	Optima®	Calla®	Ultima®	WoodWorks® Unperforated	WoodWorks Perforated	MetalWorks™ Unperforated	MetalWork Perforated
Suspension Dimension	Edge Profile	Dimensions				Iter	n No. ◆			
15/16"	Prelude® XL®	20" x 60"		3278†						
	Square Tegular	24" x 24"	8360PB, 8730PB	3250†						
		24" x 48"	8352PB	3252 <sup>†</sup>						
		24" x 72"		3281 <sup>†</sup>						
		24" x 96"		3282 <sup>†</sup>						
		30" x 30"		3258†						
		30" x 60"		3286†						
		48" x 48"	8355PB	3255†						
5/16"	Prelude XL	24" x 24"			2822	1911 <sup>†</sup>				
	Beveled Tegular	24" x 48"			2823	1914 <sup>†</sup>				
		24" x 60"				1985				
		24" x 72"				1981 <sup>†</sup>				
/16"	Suprafine® XL®	12" x 48"	8377PB	3290			6484W1	6484W2	6643M1	6643M15 _
	Square Tegular	20" x 54"		3276†						
		20" x 56"		3266†						
	C:lbtt-@ VI	20" x 60"		3277 <sup>†</sup>						
	Silhouette® XL Square Tegular	21" x 24"		3279†						
,	1/4" Reveal	24" x 24"	8361PB, 8731PB	3251†			5406W1	5406W2	6641M1	6641M15 _
	<del></del>	24" x 42"	0,011.5	3280†			6510W1	6510W2	6644M1	6644M15 _
	Interlude® XL®	24" x 48"	8357PB	3257†			6486W1		6642M1	6642M15 _
	Square Tegular	24" x 60"	8365PB	3265 <sup>†</sup>						_
		24" x 72"	8381PB	3261 <sup>†</sup>						
		24" x 96"	8382PB	3262†						
		27" x 30"		3283†			6512W1	6512W2	6645M1	6645M15 _
		28" x 30"	8461PB	3268†						
		28" x 60"		3269†						
		30" x 30"	8359PB	3259†			6511W1	6511W2	6646M1	6646M15 _
		30" x 54"		3284 <sup>†</sup>						
		30" x 56"	8466PB	3289 <sup>†</sup>						
		30" x 60"	8385PB	3285 <sup>†</sup>						
		42" x 48"	8462PB	3287 <sup>†</sup>						
		44" x 48"	8463PB	3288†						
		48" x 48"		3256 <sup>†</sup>						
		48" x 54"		3249 <sup>†</sup>						
/16"	Suprafine XL Beveled Tegular	24" x 24"			2824	1912 <sup>†</sup>				
		24" x 48"			2825	1915 <sup>†</sup>				
	Silhouette® XL® Beveled Tegular	24" x 60"				1986				
	Interlude® XL®	24" x 72" 30" x 30"				1982† 1905†				
	Beveled Tegular	30" x 54"				1929				
5/16"	Vector® with	24" x 24"		3900						
	1/4" Reveal	24" x 48"		3908						
	A - B	24" x 72"		3906						
		24" x 96"		3907						
		30" x 30"		3904						
		48" x 48"		3909						

<sup>◆</sup> Add 3-letter color suffix to item number when specifying or ordering (e.g. 6484W1 N M P) WoodWorks Field Panel Color Choices: Beech (NBE), Maple (NMP), Light Cherry (NLC), Dark Cherry (NDC), Bamboo Patina (BAP); MetalWorks Field Panel Color Choices: Whitelume (WHA), Silverlume (SIA), Gun Metal (MYA)

¹ Environmental Product Declaration 

EPD

# STEP 3: CHOOSE YOUR TECHNICAL PANEL Include finish, and perforation if applicable for your selected layout

LYRA® PB\*, OPTIMA®, OR ULTIMA®\*



WOODWORKS®

Natural Variations™ (Real Wood Veneers)





Bamboo (Rapidly Renewable)

> Patina (BAP)



**Perforation Options** 

METALWORKS™









1916<sup>†</sup>

1466

1467

Unperforated

sustainability complia	nce standards today	(W	HA) (SIA)	(MYA) (BL	_)		(M1)	
TECHNICAL F	PANELS		Lyra® PB	Optima®	Ultima®	WoodWorks® Unperforated	MetalWorks <sup>™</sup> Unperforated	
Suspension Dimension	Edge Profile	Dimensions		It				
15/16"	Prelude® XL® Square Lay-In	4" x 48"	8334PB	1462			7261M1WHA	
		4" x 60"	8335PB	1463			7262M1WHA	
	, ,	6" x 48"	8336PB	1400†	1420		7255M1	
		6" x 60"	8337PB	1404 <sup>†</sup>	1425		7256M1	
15/16"	Prelude XL Square Tegular	4" x 48"					7259M1WHA	
		4" x 60"					7260M1WHA	
	·	6" x 48"		1402†				
		6" x 60"		1406†				
		12" x 24"		3264				
15/16"	Prelude XL Beveled Tegular	6" x 48"			1422			
		12" x 24"			1917†			
9/16"	Suprafine® XL® Square Tegular*	4" x 48"	8344PB	1410			7251M1	
		4" x 60"	8345PB	1411			7252M1	
		6" x 6"		1412 <sup>†</sup>		6519W1	6647M1	
	Silhouette® XL® Square Tegular	6" x 12"		1413 <sup>†</sup>			6648M1	
		6" x 42"		1415†				
	Interlude® XL® Square Tegular	6" x 48"	8346PB	1403†		6513W1	6649M1	
		6" x 54"		1417 <sup>†</sup>				
		6" x 60"	8347PB	1407 <sup>†</sup>		6514W1	6650M1	
		6" x 96"		1409†				
		12" x 24"		3263				
		12" x 48"		3290				
		12" x 96"		1414 <sup>†</sup>				
9/16"	Suprafine XL Beveled Tegular	6" x 48"			1423			
	Silhouette XL Beveled Tegular	6" x 60"			1427			

12" x 24"

6" x 48"

6" x 60"

6" x 96"



7257M1WHA

7258M1WHA

15/16"

Interlude XL Beveled Tegular

Vector® with 1/4" Reveal

<sup>◆</sup> When specifying or ordering, add 3-letter color suffix to item number (e.g. 6484W1 N M P) WoodWorks Field & Technical Panel Color Choices: Beech (NBE), Maple (NMP), Light Cherry (NLC), Dark Cherry (NDC), Bamboo Patina (BAP); MetalWorks Field & Technical Panel Color Choices: Whitelume (WHA), Silverlume (SIA), Gun Metal (MYA)

<sup>†</sup> Environmental Product Declaration EPD

### PENSION SYSTEM

PRELUDE

PRELUDE

PRELUDE

SUPRAFINE XL 9/16" Square Lay-in

SUPRAFINE XL 9/16" Beveled Tegular

SUPRAFINE XL 9/16" Square Tegular

SUPRAFINE XL

9/16" Metal

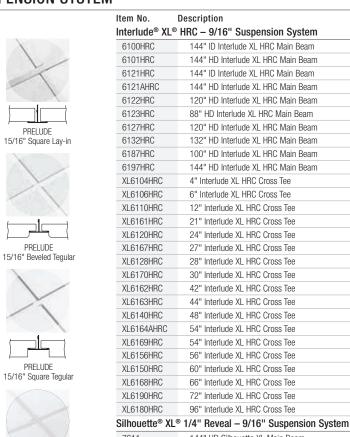
Square Tegular

XL7690

XL7680

tem No. Prelude® XL® -	Description - 15/16" Suspension System
7300	144" ID Prelude XL Main Beam
7301	144" HD Prelude XL Main Beam
7306	132" HD Prelude XL Main Beam
XL7304	4" Prelude XL Cross Tee
XL7306	6" Prelude XL Cross Tee
XL7328	24" Prelude XL Cross Tee
XL7340	48" ID Prelude XL Cross Tee
XL7341	48" HD Prelude XI Cross Tee
XL7358	60" Prelude XL Cross Tee
XL7378	30" Prelude XI. Cross Tee
XL7380	96" Prelude XL Cross Tee
XL7390	72" Prelude XL Cross Tee
	® – 9/16" Suspension System
7500	144" ID Suprafine XL Main Beam
7501 7504	144" HD Suprafine XL Main Beam
7504 7505	120" HD Suprafine XL Main Beam 100" HD Suprafine XL Main Beam
7507	144" HD Suprafine XL Main Beam
7507	132" HD Suprafine XL Main Beam
7512	120" HD Suprafine XL Main Beam
7536	144" HD Suprafine XL Main Beam
7588	88" HD Suprafine XL Main Beam
XL7504	4" Suprafine XL Cross Tee
XL7504 XL7506	6" Suprafine XL Cross Tee
XI 7510	12" Suprafine XL Cross Tee
XL7561	21" Suprafine XL Cross Tee
XL7520	24" Suprafine XL Cross Tee
XL7567	27" Suprafine XL Cross Tee
XL7528	28" Suprafine XL Cross Tee
XL7570	30" Suprafine XL Cross Tee
XL7562	42" Suprafine XL Cross Tee
XL7563	44" Suprafine XL Cross Tee
XL7540	48" ID Suprafine XL Cross Tee
XL7549	48" HD Suprafine XL Cross Tee
XL7564	54" Suprafine XL Cross Tee
XL7569	54" Suprafine XL Cross Tee
XL7556	56" Suprafine XL Cross Tee
XL7558	60" Suprafine XL Cross Tee
XL7568	66" Suprafine XL Cross Tee
XL7590	72" Suprafine XL Cross Tee
XL7580	96" Suprafine XL Cross Tee
Suprafine XL –	- Colors - 9/16" Suspension System ◆
TZ7501	120" HD Suprafine Main Beam
TZ7504	144" HD Suprafine Main Beam*
TZXL7504	4" Suprafine XL Cross Tee
TZXL7506	6" Suprafine XL Cross Tee
TZXL7510	12" Suprafine XL Cross Tee
TZXL7520	24" Suprafine XL Cross Tee
TZXL7567	27" Suprafine XL Cross Tee
TZXL7570	30" Suprafine XL Cross Tee
TZXL7562	42" Suprafine XL Cross Tee
TZXL7541	48" Suprafine XL Cross Tee
TZXL7564	54" Suprafine XL Cross Tee
TZXL7556	56" Suprafine XL Cross Tee
T7VI 7EE0	60" Suprafine XL Cross Tee
TZXL7558 TZXL7568	66" Suprafine XL Cross Tee

<sup>·</sup> When specifying or ordering, add 2-letter color suffix to item number



YEDIOUUHC	90	intenude X	L HHU (	Joss iee	
Silhouette® XL	ື 1/4"	Reveal –	9/16"	Suspension	Syster
7611	144	4" HD Silhou	ette XL	Main Beam	
7613	108	R" HD Silhou	iette XI	Main Ream	

7613	108" HD Silhouette XL Main Beam
7619	78" Silhouette XL Main Beam
7621	132" HD Silhouette XL Main Beam
7622	102" HD Silhouette XL Main Beam
7626	120" HD Silhouette XL Main Beam
7637	96" HD Silhouette XL Main Beam
7638	126" HD Silhouette XL Main Beam
7639	126" HD Silhouette XL Main Beam
XL7604	4" Silhouette XL Cross Tee
XL7606	6" Silhouette XL Cross Tee
XL7621	21" Silhouette XL Cross Tee
XL7620	27" Silhouette XL Cross Tee
XL7670	30" Silhouette XL Cross Tee
XL7663	44" Silhouette XL Cross Tee
XL7640	48" Silhouette XL Cross Tee
XL7645	48" Silhouette XL Cross Tee – center notched both sides
XL7646	48" Silhouette XL Cross Tee – center notched one side
XL7652	54" Silhouette XL Cross Tee
XL7653	56" Silhouette XL Cross Tee
XL7651	60" Silhouette XL Cross Tee – notched one side at 20" and 40"
XL7654	60" Silhouette XL Cross Tee – notched both sides at 20" and 40"
XL7655	60" Silhouette XL Cross Tee – center notched both sides
XL7656	60" Silhouette XL Cross Tee – center notched one side

72" Silhouette XI. Cross Tee

96" Silhouette XL Cross Tee







SILHOUETTE XL 9/16" Square Tegular (1/4" reveal)



<sup>\*</sup> Routs 6" O.C.

## STEP 5: CHOOSE YOUR PERIMETER TRIM, MOLDINGS, AND ACCESSORIES

### WALL-TO-WALL INSTALLATION

### Select Perimeter Angle at Wall

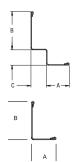
Tegular, Lay-in, and Vector® Shadow Molding **7875** – A-3/4", B-15/16", C-1/2"

7877 - A-15/16", B-15/16", C-1/4" 7897 - A-15/16", B-15/16", C-1/2"

Tegular, Lay-in, and Vector Angle Molding

**7800** – A-7/8", B-7/8" **7804** – A-9/16", B-7/8"

7808 - A-2", B-2"

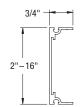


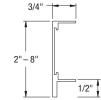
### **CLOUD / FLOATING INSTALLATION**

### Select Perimeter Trim at Floating Edge

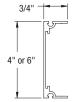
Axiom® Classic Trim straight or curved

Axiom® Vector® Trim straight or curved

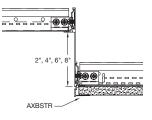


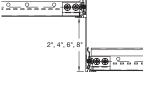


WoodWorks® Trim (with aluminum substrate) straight or curved

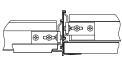


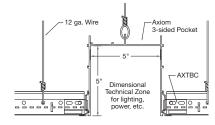
### **ELEVATION OR MATERIAL TRANSITIONS IN THE CEILING PLANE**











### **Axiom Transitions**

Acoustical Ceiling to Drywall Elevation Changes

Curved AXTRXCUR Straight AXTRXSTR

### **Axiom Transitions**

Acoustical Ceiling to Acoustical Ceiling Elevation Changes

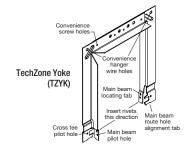
Curved AXTRXCUR Straight AXTRXSTR **Axiom Transitions** Acoustical Ceiling to Drywall in Same Plane

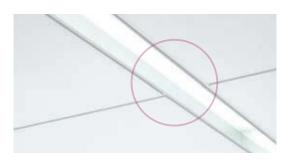
Curved AXTRTECUR Straight AXTRTESTR Axiom Dimensional TechZone

Straight AXP3552

### TECHZONE® YOKE ALLOWS TRUE CONTINUOUS LIGHT

- · Create a sleek ceiling design with uninterrupted ribbons of light
- · Alternate continuous lights and diffusers with other services for a monolithic, uncluttered visual
- · Easy installation
- · Seismic tested
- · Ability to use with 4" and 6" configurations





### **MOLDING & ACCESSORIES**





### Cross Tee Adapter Clip (XTAC)

Used to attach field-cut cross tees to main beams.



### Stabilizer Clip, Item 435, for Optima®

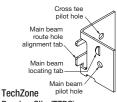
Recommended for panels 5' and greater in length. Ordered separately. NOTE: Panels 5' up to 8' - One clip installed near the midpoint of each long edge. Panels 8' - Two clips installed at one-third points of each long edge





### STAC Clip (STAC)

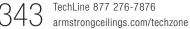
Single tee attachment clip for creating playful designs with off module lighting. Seismic tested.



# Bracing Clip (TZBC)

Used to connect cross tees to the main beam of the continuous technical zone when no yoke is present.





# INTEGRATED SERVICES TECHZONE® Ceiling Systems

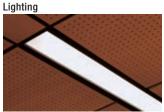
**Lighting Partners** 

### PRODUCT MATRIX

### LIGHTING AND COLOR OPTIONS

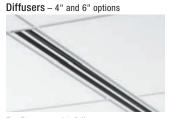
Product Mix	Vector® Fixtures 6" Linear	Square Lay-in and Tegular Fixtures 6" Continuous	Square Lay-in and Tegular Fixtures 6" Linear	Square Lay-in and Tegular Fixtures 4" Continuous	Square Lay-in and Tegular Fixtures 4" Linear	Chilled Beams	Diffusers	Sprinklers
Carnes®							•	
FlexHead®								•
Focal Point®		•	•		•			
Kurt Versen		•	•					
Linear Lighting		•	•					
Litecontrol		•	•		•			
Mark Architectural Lighting™			•					
Neo-Ray™		•	•					
Philips Lightolier®		•	•	•	•			
Pinnacle® Architectural Lighting	•	•	•	•	•			
Price®							•	
Titus®							•	
TROX®						•		
Selux					•			

Lighting & Color Options	12" Wide Technical	zone conniguration for Chilled Beams	6" Wide Technical Zone Configuration		6" Wide Technical Zone Configuration for Continuous Lighting and Air		4" Wide Technical Zone Configuration
	Black, Gun Metal, Silver Grey	White only	Black, Gun Metal, Silver Grey	White only	Black, Gun Metal, Silver Grey	White only	White only
Lighting							
Corelite™							•
Focal Point®		•		•		•	•
Kurt Versen		•		•			
Linear Lighting		•		•		•	
Litecontrol		•	•	•	•	•	•
Mark Architectural Lighting™		•		•			
Neo-Ray™		•	•	•	•	•	
Philips Lightolier®		•		•			
Pinnacle® Architectural Lighting			•	•	•	•	•
RSA Lighting				•			
Selux							•
Chilled Beams							



TechZone-compatible Linear Light fixtures

Chilled Beam - 12"



TechZone-compatible Diffusers



Sprinklers - for 4" and 6" technical zones



TechZone-compatible Sprinkler Systems



# INTEGRATED SERVICES

# DC FLEXZONE™

### Suspension System



This "power distribution platform" distributes safe, low-voltage DC current through a ceiling suspension system.

### **KEY SELECTION ATTRIBUTES**

- Can be an integral part of a net zero energy-building strategy providing more efficient lighting and direct use of on-site renewable energy
- Provides plug-and-play flexibility throughout the building
- Main beams only with integrated electrical conductors are capable of distributing power to electrical devices
- UL Listed and EMerge Alliance® Registered for use in 24VDC power distribution systems
- Installed acoustically as part of the overall ceiling system, with electrical connections to suspension system made by qualified electricians
- High recycled content, galvanized steel for durability, and sustainable design
- Seismic performance with heavy-duty load rating meets the most stringent codes

### DC Silhouette®

- DC circuits available on top bulb and in slot reveal
- Integrates with standard cross tees, moldings, and accessories for Silhouette 1/4" Reveal suspension system
- Crisp reveal installs virtually flush with Tegular ceiling panel surface for monolithic appearance

### DC Suprafine®

- Single DC circuit available on top bulb only
- Integrates with standard cross tees, moldings, and accessories for Suprafine® and Suprafine HRC suspension systems
- Exposed Tee design combines superior durability and stability with a narrow suspension system face for a refined appearance.

### INTEGRATION PARTNER



See complete partner list at armstrongceilings.com/dcflexzone



-₩-DEF

# INTEGRATED SERVICES

# DC FLEXZONE™

Suspension System

# \$ 54% NAME 61% BANK SAN BANK S Calculate LEED contribution at armstrongceilings.com/greengenie EED

PERFORMANCE SELECTION Dots represent high level of performance

### **VISUAL SELECTION**

Grid Face	Item No.	Description	Dimensions	Hanger Spacing* Lbs./Lin. Ft.		Seismic Category	Total Recycled Content	Total Post-consumer Content	PCS/ Ctn.	LFT/ Ctn.
			(Inches)	4 Ft.	5 Ft.	₩ DEF				
DC Fle	xZone™ Supra	fine® Main Beams								
9/16"	DC750106	6' HD Main Beam, Routs 12" OC, First Route 6" from end	72 x 9/16 x 1-11/16"	16.83	8.69	•	54%	45%	10	60
9/16"	DC750108	8' HD Main Beam, Routs 12" OC, First Route 6" from end	96 x 9/16 x 1-11/16"	16.83	8.69	•	54%	45%	10	80
9/16"	DC750110	10' HD Main Beam, Routs 12" OC, First Route 6" from end	120 x 9/16 x 1-11/16"	16.83	8.69	•	54%	45%	10	100
9/16"	DC750112	12' HD Main Beam, Routs 12" OC, First Route 6" from end	144 x 9/16 x 1-11/16"	16.83	8.69	•	54%	45%	10	120
DC Fle	xZone™ Supra	fine® Non-powered Border M	ain Beams							
9/16"	750106	6' HD Border Main Beam, Routs 12" OC, First Route 6" from end	72 x 9/16 x 1-11/16"	16.83	8.69	•	61%	50%	20	120
DC Fle	xZone™ Silhou	iette® Main Beams – 1/4" Re	veal							
9/16"	DC760106	6' HD Main Beam, Routs 12" OC, Notched 24" OC	72 x 9/16 x 1-15/16 x 1/4"	16.44	8.49	•	44%	37%	10	60
9/16"	DC760108	8' HD Main Beam, Routs 12" OC, Notched 24" OC	96 x 9/16 x 1-15/16 x 1/4"	16.44	8.49	•	44%	37%	10	80
9/16"	DC760110	10' HD Main Beam, Routs 12" OC, Notched 24" OC	120 x 9/16 x 1-15/16 x 1/4"	16.44	8.49	•	44%	37%	10	100
9/16"	DC760112	12' HD Main Beam, Routs 12" OC, Notched 24" OC	144 x 9/16 x 1-15/16 x 1/4"	16.44	8.49	•	44%	37%	10	120
Non-po	wered Border	Main Beams								
9/16"	760106	6' HD Border Main Beam, Routs 12" OC, Notched 24" OC	72 x 9/16 x 1-3/4 x 1/4"	16.44	8.49	•	61%	50%	20	120

<sup>\*</sup> Simple Span

### DC FLEXZONE™ SUPRAFINE®

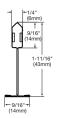
**Details and Suspension System Intersection** 



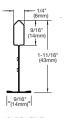
9/16" Hemmed Angle Molding (7804HRC)



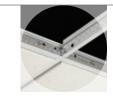
7/8" Hemmed Angle Molding (7800HRC)\*\*



DC FLEXZONE SUPRAFINE Main Beam



SUPRAFINE Cross Tee



\*\* For seismic zones, use 7800HRC with BERC2 clip

### DC FLEXZONE™ SILHOUETTE®

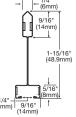
**Details and Suspension System Intersection** 



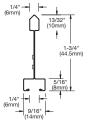
9/16" Hemmed Angle Molding (7804HRC)



7/8" Hemmed Angle Molding (7800HRC)\*\*



DC FLEXZONE SILHOUETTE Main Beam



SILHOUETTE Cross Tee



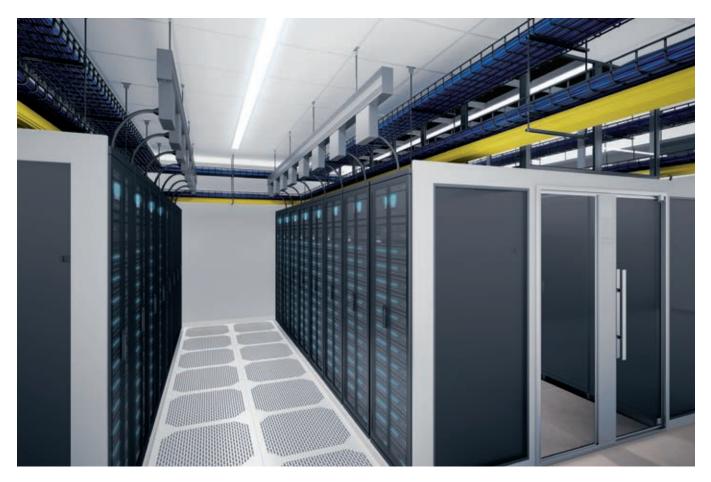
\*\* For seismic zones, use 7800HRC with BERC2 Clip

## **ACCESSORIES**

Item No.	Description	Dimensions (Inches)	Pcs./Ctn
DCINS	Insulator Cap	2"	100
BACG90A	Brace Attachment Clip		250
UPC	Universal Partition Clip		200

# INTEGRATED SERVICES

# Data Center Ceiling Systems



Complete assortment of integrated ceiling systems for Data Centers.

## **KEY SELECTION ATTRIBUTES**

- · Armstrong® Data Center ceiling systems offer:
- Improved air flow management
- Load-carrying capacity, adaptability

### Prelude® XL Max™ suspension system

- · Provides maximum load carrying capacity
- 3/8" threaded rod support
- Reconfigurable hanging clips for cable tray and electrical distribution

# Armstrong Ultima® Health Zone $^{\text{\tiny TM}}$ & Clean Room $^{\text{\tiny TM}}$ ceiling systems

- · Soil Resistant
- Excellent sound blocking (CAC 35-38)

For details and specifications for Prelude® Max Suspension Systems, see Pgs. 393-394.





The Prelude® XL Max™ suspension system supports single point loads for cable travs. busways, and more.

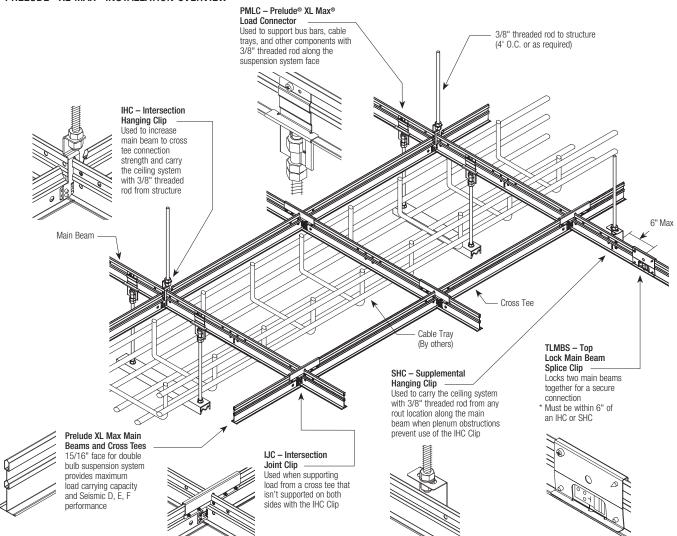


Integrated hanging clips allow connection to 3/8" threaded rod for flexible and reconfigurable overhead cable tray and electrical distribution without a separate strut channel system.



Load connector clips attach to the face of the suspension system to eliminate unsightly threaded rod penetrations through the ceiling plane to minimize unwanted air infiltration while improving access, cable tray layout ontions and aesthetics.

### PRELUDE® XL MAX® INSTALLATION OVERVIEW



### RECOMMENDED CEILING PANELS FOR DATA CENTERS

Ultima® Health Zone™ (details Pgs. 321-324)

- · Smooth, clean, durable finish -Impact-resistant, scratch-resistant, and soil-resistant; safe for use with disinfectants
- · Long-lasting water-repellency; washable and scrubbable
- · Excellent sound absorption
- · 30-Year Limited System Warranty against visible sag, mold, and mildew

## Clean Room™ FL / VL (details Pgs. 239-240)

- · Clean Rooms up to ISO Class 5 (Class 100)
- · Durable washable, scrubbable, soil-resistant
- · Non-directional visual reduces installation time and scrap
- 30-Year Limited System Warranty against visible sag, mold, and mildew



LOCATION DEPENDENT

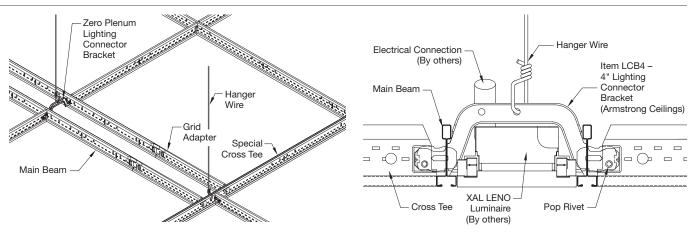
Optima® 24" x 24" Tegular panels with Suprafine® 9/16" suspension system and integrated linear lighting

The new XAL LENO Zero Plenum luminaire integrates with Armstrong® suspension systems.

### **KEY SELECTION ATTRIBUTES**

- · Continuous or non-continuous on-center Linear Lighting Layouts - Inspiring symmetry to match your building design
- Zero Interference Eliminates interference with mechanicals in the plenum
- Zero Construction Coordination Install from below to speed construction
- Zero Independent Suspension No independent suspension is required; approved for Seismic D, E, F installations
- Using a combination of FastSize<sup>™</sup> factory-finished ceiling panels and suspension systems, perfect lighting layouts like this are easy to specify and install.
- Refer to the FastSize™ capabilites (Pg. 253) to view ceiling panels and suspension systems.

### ON-CENTER LIGHTING FOR ACOUSTICAL APPLICATIONS



## ${\color{red}\textbf{COLOR SELECTION}} \quad \text{Due to printing limitations,} \\$

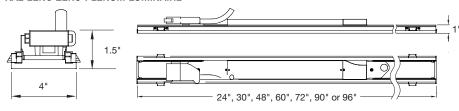
Standard



(WH)

shade may vary from actual product

### XAL LENO ZERO PLENUM LUMINAIRE



The new ultra thin XAL LENO Zero Plenum luminaire installs from below and features:

- · High output, energy efficient LED lighting for any space
- · High performance opal cover for uniform illumination and enhanced glare control
- · Extruded aluminum fixture design
- · White powder-coated finish
- · Integrated plug and play electrical connections
- · Choice of light outputs to achieve any desired light level
- · Dimming options available

For detailed lighting information, contact your local XAL lighting representative or visit XALUSA.com

### PHYSICAL DATA

### Material

Commercial quality extruded aluminum alloy 6063

Factory-applied baked polyester paint finish

### Warranty

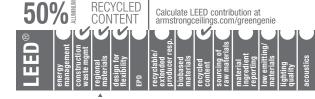
10-Year Limited Warranty; 30-Year System Warranty

### **ICC Reports**

For areas under ICC jurisdiction, see evaluation report numbers ESR-1289 and ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The reports are subject to reexamination, revisions, and possible cancellation.



# LIGHTING SOLUTIONS Drywall Linear Lighting



LOCATION DEPENDENT

Create inspiring ceiling designs with higher ceiling heights, zero plenum interference, and on-center continuous or non-continuous customized layouts that provide clean, modern aesthetics.

### **KEY SELECTION ATTRIBUTES**

- Seamless integration between drywall ceilings and linear lighting for consistent fit and finish
- Leverage LED in long runs to create a monolithic look - varying length and on-center spacing true to design intent
- Faster and easier to build and install compared to traditional framed linear lighting
- Light fixture installs from below the ceiling to optimize ceiling heights

### TYPICAL APPLICATIONS

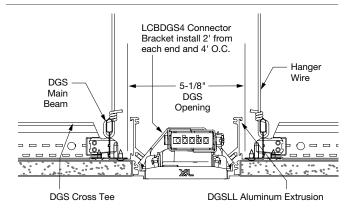
- Offices
- Healthcare
- · Hospitality
- · High-Rise Residential

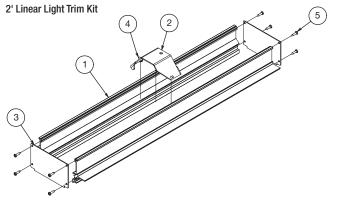
### VISUAL SELECTION

Item No.	Description	Fixture Length
Drywall Linea	r Lighting	
DGSLLTK24	2' Linear Light Trim Kit	24" x 4"
DGSLLTK30	2' – 6" Linear Light Trim Kit	30" x 4"
DGSLLTK48	4' Linear Light Trim Kit	48" x 4"
DGSLLTK60	5' Linear Light Trim Kit	60" x 4"
DGSLLTK72	6' Linear Light Trim Kit	72" x 4"
DGSLLTK90	7' – 6" Linear Light Trim Kit	90" x 4"
DGSLLTK96	8' Linear Light Trim Kit	96" x 4"
DGSLLTK120	10' Linear Light Trim Kit	120" x 4"
DGSLLTKCON	10' Continuous Linear Light Trim Kit	10'

Optima® 24" x 24" Tegular panels with Suprafine® 9/16" suspension system and integrated linear lighting

Trin	Trim Kit Components Included							
1.	Aluminum Extrusions (2)							
2.	Connector Bracket (1)							
3.	End Plates (2)							
4.	#8-32 x 5/16" Pan Head Machine Screws							
5.	#6-20 x 5/8" Pan Head Sharp Point Screws							





### LIGHTING FIXTURES

Compatible with XAL Leno Luminaire



For detailed lighting information, contact your local XAL lighting representative or visit XALUSA.com



# FORMATIONS™ Clouds Linear Lighting Kits

TruGroove LED Recessed Lighting



The epitome of simple sophistication – TruGroove LED lighting in Formations™ Clouds provides unrivaled performance and a truly innovative design.

### **KEY SELECTION ATTRIBUTES**

- · Offers best possible combination of lighting control and brightness
- · Creates a balanced luminous environment with smooth, even gradients of light
- · Easy to install
- · Unique cable-cinch design saves time and money
- Offers wide row spacing to create uniform illumination using less fixtures and energy

### VISUAL SELECTION

### PANEL SELECTION

	Suspension Kit Item No. (Axiom® Vector® Trim & Suspension System)					
Cloud Size						
6' x 8'	L0608TAV					
8' x 8'	L0808TAV					
8' x 10'	L0810TAV					
* 10' x 10'	L1010TAV					
* 10' v 10' Forma	itions Clouds must use 9/16" suspensi					

Optima® Beveled Tegular Panels		Ultima® Beveled Tegular Panels 24" x 24"		Calla® Bevele Tegular Panel		Lyra® Square Tegular Panels	
				24" x 24"		24" x 24"	
15/16"	9/16"	15/16"	9/16"	15/16"	9/16"	15/16"	9/16"
3354	3251	1911	1912	2822	2824	8360	8361
3354	3251	1911	1912	2822	2824	8360	8361
3354	3251	1911	1912	2822	2824		
30" x 30"		30" x 30"		30" x 30"		30" x 30"	
32	:58	19	05	_	-	_	-

<sup>10&#</sup>x27; x 10' Formations Clouds must use 9/16" suspension system only (Suprafine® or Interlude® XL® HRC)

### PLANKS CLOUD SHAPE AND SIZE SELECTION

24" x 24" Panels





30" x 30" Panels



### **HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number, the panel item number, and the Philips Ledalite light fixture you select.

EXAMPLE:

L0608T \_ <u>\* AV</u> \_ 6" or Color 8" Suffix 6' x 8' Susp. Axiom Vector

\* PD = Prelude 15/16" SF = Suprafine 9/16"

LD = Interlude XL HRC 9/16"

All clouds come in the color White. All clouds have a 4" wide opening in the center specifically designed for the integration of a Philips Ledalite TruGroove LED fixture

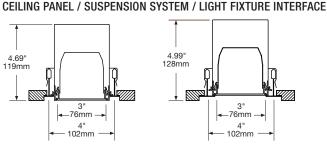
### Armstrong® Suprafine 9/16"

4.69" 119mm

suspension system with Philips Ledalite TruGroove LED Light

\_76mm

4" 102mm



Armstrong® Prelude® 15/16" suspension system with Philips Ledalite TruGroove LED Light

### SUSPENSION SYSTEMS

15/16'

View installation videos or download CAD, Revit®, and SketchUp® files at armstrongceilings.com/formations

### LIGHTING FIXTURES





For TruGroove LED specifications and details,



# LIGHTING SOLUTIONS

# T-Bar LED Linear Lighting

Smartlight™

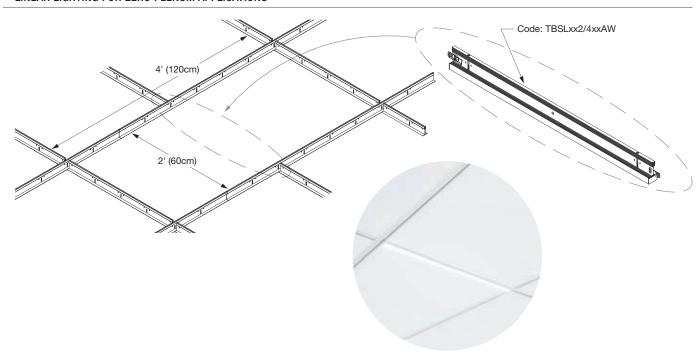


Zero plenum lighting fixture integrates with Armstrong® LED cross tee clips for seamless integration.

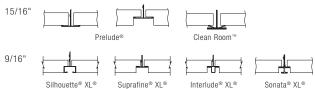
### **KEY SELECTION ATTRIBUTES**

- Popular linear light fixture available in two lengths with four different lens options, compatible with most Armstrong® 15/16" and 9/16" suspension systems
- Sleek energy-efficient design reduces energy use up to 50% over conventional lighting
- Low-profile design is perfect for use in crowded plenum spaces such as hospitals and corridors
- Seismic D,E, F compliant and pre-engineered to install with all 15/16" and 9/16" Armstrong® suspension systems

### LINEAR LIGHTING FOR ZERO PLENUM APPLICATIONS



### SUSPENSION SYSTEMS



### LIGHTING FIXTURES



T-BAR LED Smartlight<sup>\*\*</sup> specified, sold and installed through typical electrical channel. For more information visit JLC-Tech at www.tbarledsmartlight.com



# LIGHTING SOLUTIONS

# Recessed Downlighting for Acoustical Ceiling Intersections



This pre-engineered suspension system seamlessly integrates recessed downlights at the intersection of the ceiling grid, placing light where it has never been before.

### **KEY SELECTION ATTRIBUTES**

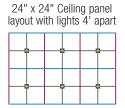
- · Lighting and architecture perfectly integrated into the ceiling to deliver your vision of symmetry
- Replaces inconsistent finishes and edge details with clean, crisp factory-finished panels and grid for a fast and easy installation
- · Compatible with the USAI Lighting CONNECT™ Family
- · Eliminates the worry of field-modified panels and grid
- · Seismic code compliant
- Armstrong® 10-Year Limited Warranty

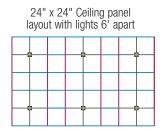
### TYPICAL APPLICATIONS

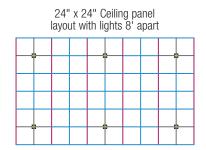
- · Open & Closed Offices
- Lobbies
- · Training rooms
- Corridors
- · Conference rooms

Follow the three (3) steps below when specifying Intersection Downlighting:

### 1. Choose your ceiling system layout







### 2. Choose your 9/16" Intersection Profile Downlighting Kit (main beams, standard cross tees, wall molding, and lights need to be ordered separately)

Item No.	Description	Item No. Description	
Silhouette® XL® ½	4" Reveal	Silhouette XL 1/8" Reveal	
76D4SK24	24" Module Kit	<b>768D4SK24</b> 24" Module Kit	
Suprafine® XL®		Interlude® XL® HRC	
75D4SK24	24" Module Kit	<b>61D4SK24</b> 24" Module Kit	

### KIT COMPONENTS INCLUDED (8 Kits per carton)





(1) High-Profile Yoke (not assembled comes in two pieces)\*

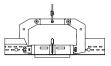


(2) Cross Tee Connection Clips



(1) Downlight Suspension Frame

### **ACCESSORY**



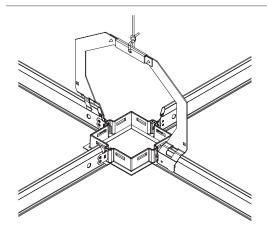
FZD4YKLP Low-Profile Yoke

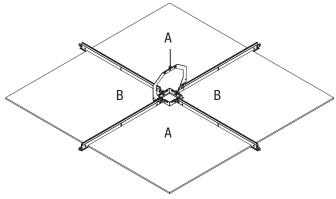


<sup>\*</sup> Alternate low-profile yoke for low-plenum applications available - Item #: FZD4YKLP

# Recessed Downlighting for Acoustical Ceiling Intersections

### INTERSECTION DOWNLIGHTING ASSEMBLY/CEILING PANEL LAYOUT





NOTE: These are directional panels and come as (8) pieces per carton (4 As / 4 Bs marked)

3. Choose your Ceiling Panel Notched Ultima®, Optima®, and Lyra® ceiling panels (24" x 24" tegular panels for 9/16" grid) also available as a special order.

### VISUAL SELECTION

### **PERFORMANCE SELECTION** Dots represent high level of performance.

Edge Profile	ltem No.	Dimensions (Inches)	UL Classified Acoustics		Total Acoustics <sup>1</sup> Articulatior Class	ng Light Reflect	Light Reflect	Anti-Mold & Mildew Sag Resist	ified Low Emissions	Wash	Impact	Scratch	Soil	Recycled Content	rcled ent Recycle Program	30-Yr Warranty		
			NRC =	CAC	= NRC CAC	AC =	Fire Rating			*	Certified VOC Emis		<b>8</b> /^\		$\overline{\wedge}$	Recy	43	30-Y Warı
CALLA	Notched	Ceiling Panels																
9/16" Square Tegular	2818	24 x 24 x 1"	0.85	35	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
CALLA	® Compata	able Full Size Panels																
9/16" Square Tegular	2824	24 x 24 x 1"	0.85	35	BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•

<sup>&</sup>lt;sup>1</sup> Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+) NOTE: Item # 2824 is the compatible full size (24" x 24" x 1") panel

### **CONNECT™** Family

The aesthetic and uncompromising craftsmanship of the Connect™ Lighting system integrates beautiful illumination with simplicity.

- · Award-winning LED performance
- · Three different trim aesthetics available: BeveLED, True Zero, and SliverLED
- · Industry-leading color consistency
- · Full family of downlight, adjustable and wall wash
- · Interchangeable beam spreads
- · Best-in-class dimming controls compatibility
- · Widest range of white light color options
- · Color technologies Classic White, Warm Glow, Dimming, and Color Select options





### LIGHTING FIXTURES

For more product information visit: usailighting.com/connect

### PHYSICAL DATA

### Material

Cross Tees: Hot-dipped galvanized steel High-Profile Yoke: Galvanized steel Low-Profile Yoke: Galvanized steel Cross Tee Connector Clip: Galvanized steel Downlight Suspension Frame: ADC12 Aluminum

Baked polyester paint or powder-coated finish

Cross Tee / Downlight Suspension Frame Interface

# End detail

Staked-on XL Clip

TechLine / 1 877 276-7876 armstrongceilings.com/downlight

BPCS-5368-517

### Installation Considerations

The high-profile yoke included in each kit is designed for use with the USAI Lighting CONNECT Family Downlight, Adjustable, and Wall Wash lighting options.

For low plenum installations, the low-profile yoke can be ordered separately and comes with (8) eight unassembled yokes. The low-profile yoke can be used with the USAI CONNECT Family Downlight and Wall Wash options. A low-profile yoke will not fit the housing of a USAI CONNECT Adjustable downlight and a high-profile yoke must be used.

Downlight Suspension Frame can only receive directional cross tees. For light spacing 6' apart alternate main beam spacing

USAI Lighting, Connect™, BeveLED, True Zero and SilverLED are trademarks of USAI Lighting, LLC All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America

### Carton Components:

Each carton contains (8) eight Intersection Downlighting Kits with the following components:

(32) 22" Directional Cross Tees

(8) High-Profile Yokes (unassembled)

(8) Downlight Suspension Frames

(20) Cross Tee Connection Clips (16 clips are required, 4 extra per

### Warranty

10-year limited warranty



# LIGHTING SOLUTIONS

# Light Coves - Direct

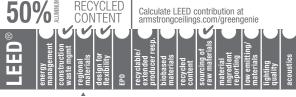
AXIOM® Trim straight

Declare

Living Building

Challenge Compliant

SUSTAIN<sup>®</sup>
High Performance
Sustainable
Ceiling Systems



LOCATION DEPENDEN



Axiom® extruded aluminum direct light coves offer ultra-low plenum clearance, predictable lighting performance, and perfect integration with all Armstrong® Suspension Systems.

### **KEY SELECTION ATTRIBUTES**

- Pre-engineered, extruded aluminum light cove profiles with integrated XAL® LENO® light fixture
- Axiom Trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Fully concealed integrated design installs with all Armstrong acoustical & drywall suspension systems
- Low profile design with plug & play lighting for easy installation in shallow plenum corridors and entry areas.
- 10-year limited warranty, 30-year system warranty

# COLORS Standard White RAI® and

(WH)

Custom Colors

### **VISUAL SELECTION**

Item No.	Description	Dimensions					
Axiom Direct Light Coves							
AXDLC46	4" x 6" Direct Light Cove	120 x 4-1/2 x 6"					
AXDLC44	4" x 4" Direct Light Cove	120 x 4-1/2 x 4"					

Direct Light Coves: Aluminum extrusions formed with distinct architectural detail groove on bottom flange with special bosses to receive the T-Bar Connection Clip, Hanging Clip, and Splice Plate, provides positive mechanical lock with no visible fasteners. Factory-finished to match approved samples.

## **ACCESSORIES**

ACCESSORI	E9	
Item No.	Description	
AXBTSTR	Axiom® Bottom Drywall Trim — Straight for 5/8" Drywall	
AX2HGC	Hanging Clip – Hanging Clip: Sheet steel formed to fit into special trim channel bosses and provide positive mechanical lock, screw-fastened connection to suspension members which intersect below the trim channel.	0
AXTBC	T-Bar Connection Clip — T-Bar Connection Clip: Galvanized sheet steel formed to fit into special trim channel bosses and provide positive mechanical lock with factory-installed screw, screw-fastened connection to suspension members which intersect the trim channel.	
AX4SPLICE	Axiom Splice Plate – Splice Plate: Galvanized sheet steel formed to fit into the trim channel bosses and provide positive lock between abutting channels with factory-installed setscrews.	0
AXPWCCP2	Axiom Wall Clip – 2 x 2 x 112"	

AXPDLC46ECR	4" x 6" - Light Cove End Cap - Right	
AXPDLC46ECL	4" x 6" - Light Cove End Cap - Left	
AXPDLC44ECR	4" x 4" - Light Cove End Cap - Right	
AXPDLC44ECL	4" x 4" - Light Cove End Cap - Left	
AX-SPT-HDC	Trim Hold-Down Clip	\$

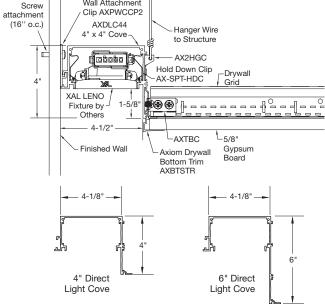
### LIGHTING FIXTURES

Compatible with XAL® Leno® Luminaire

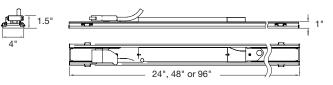


For detailed lighting information, contact your local XAL lighting representative, or visit XALUSA.com

# 4" x 6" Direct Light Cove – AXPDLC46

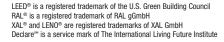


### XAL LENO ZERO PLENUM LUMINAIRE



The new ultra thin XAL LENO Zero Plenum luminaire installs from below and features:

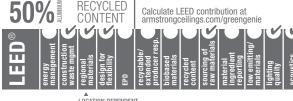
- High-output, energy-efficient LED lighting for any space
- High-performance opal cover for uniform illumination and enhanced glare control
- · Extruded aluminum fixture design
- · White powder-coated finish
- Integrated plug and play electrical connections
- Choice of light outputs to achieve any desired light level
- · Dimming options available





AXIOM® Trim straight

Declare<sup>s</sup>
• Living Building Challenge Compliant



LOCATION DEPENDENT



Axiom® Indirect Light Coves offer predictable performance and perfect integration.

### **KEY SELECTION ATTRIBUTES**

- · Axiom® Indirect Light Coves offer predictable lighting performance and perfect integration with all Armstrong® suspension systems
- · With our three lighting partners, this pre-engineered solution offers a variety of options with both Ceiling-to-Wall and Ceiling-to-Ceiling light coves
- Featuring a new Knife Edge® profile that brings acoustical panels out to the edge of the cove
- 10-Year Limited Warranty, 30-Year System Warranty

### TYPICAL APPLICATIONS

- Offices · Lobbies
- · Corridors
  - · Boardrooms Retail
- · Restrooms
- · Healthcare

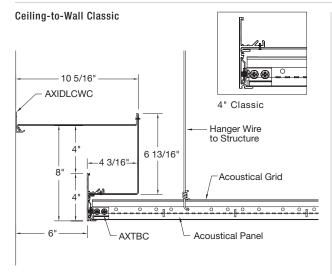
### **COLOR**

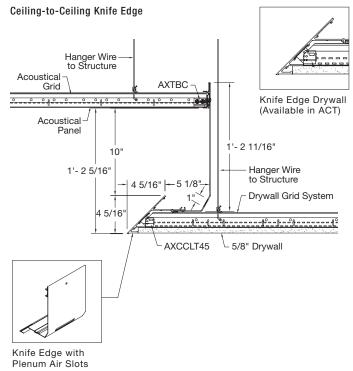


White (WH)

### **VISUAL SELECTION**

Light Cove Type	Mounting	Edge Detail	Size	Options
Indirect Light Cove Ordering Inform	ation Ex: AXIDLCCKD812ISC — Axion	n Indirect Light Cover, Ceiling-to-Ceiling,	12" Light Cove with Knife Edge Drywall	Trim, 12" Inside Corner
AXIDL	CC – Ceiling-to-Ceiling CW – Ceiling-to-Wall	4 – 4" Classic KE – Knife Edge ACT KD – Knife Edge Drywallw	48 – 8" H 610 – 10" H 812 – 12" H 1014 – 14" H 1216 – 16" H 1418 – 18" H	– Blank S – Plenum Air Slots IC – Inside Corner OC – Outside Corner





### LIGHTING FIXTURES

Compatible with: Axis Lighting, Litecontrol, and Vode® Lighting.

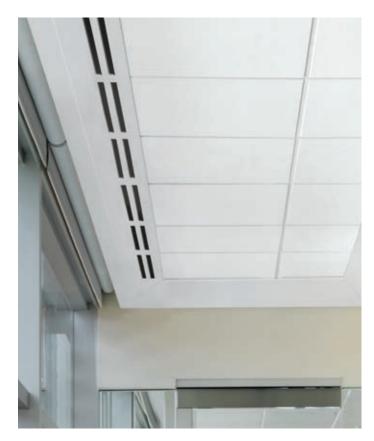








# AXIOM® Building Perimeter System



This pre-engineered extruded aluminum building perimeter trim integrates air distribution, draperies, blinds, mechanical shades, or changes in ceiling elevations – without any visible fasteners.

### **KEY SELECTION ATTRIBUTES**

- · Works with Armstrong® acoustical and drywall suspension systems
- Axiom® trim is part of the Sustain  $^{\scriptscriptstyle{\text{TM}}}$  portfolio and meets the most stringent sustainability compliance standards today
- Provides an aesthetic platform to integrate functions such as drapery pockets, air distribution, and changes in ceiling elevation
- Allows quality control at the perimeter, reduces time required to detail and specify the integration of perimeter solutions
- · Reduces risk associated with field fabricated, laborintensive accommodation of air distribution, window pockets, and ceiling elevation changes at the perimeter of a building
- Replaces the framing, boarding, taping, mudding, sanding, and painting commonly used for drywall pockets
- · Custom slotting, perforating, and cutting available
- 30-year limited warranty
- · Seismic systems available

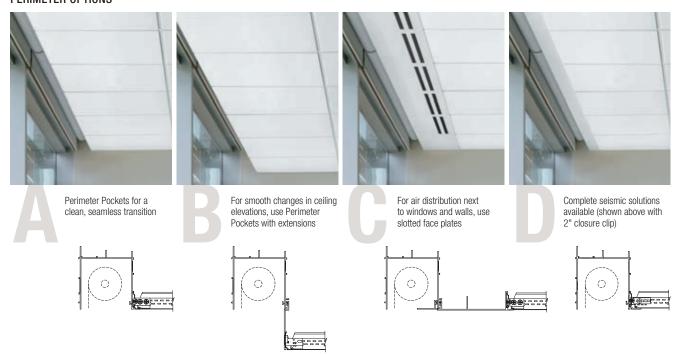








### PERIMETER OPTIONS





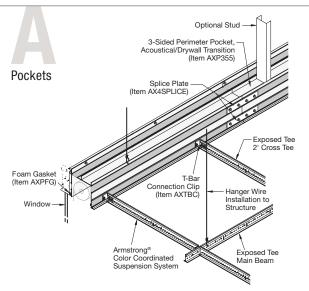
# AXIOM® Building Perimeter System

Declare

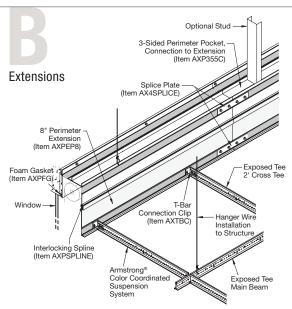
Living Building
Challenge Compliant

LOCATION DEPENDENT

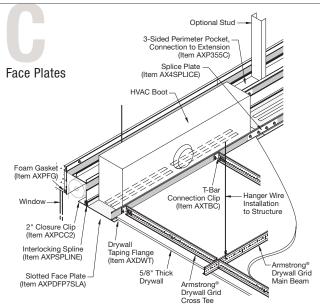
### SPECIFY THE OPTION THAT FITS YOUR PROJECT



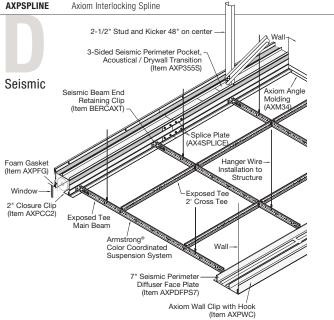
Description
3-Sided Perimeter Pocket, Acoustical/Drywall Transition
Axiom® Splice Plates with Setscrews
Axiom Building Perimeter Foam Gasketing
Axiom T-Bar Connection Clip



Item No.	Description
AXP355C	3-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece
AXPEP8	Axiom 8" Perimeter Extension
AX4SPLICE	Axiom Splice Plates with Setscrews
AXPFG	Axiom Building Perimeter Foam Gasketing
AXTBC	Axiom T-Bar Connection Clip
AXPSPLINE	Axiom Interlocking Spline



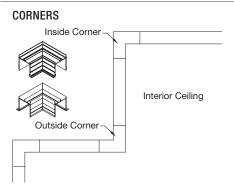
Item No.	Description
AXP355C	3-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece
AXPDFP7SLA	Axiom Perimeter Diffuser Face Plate – 2-Slot Pattern
AX4SPLICE	Axiom Splice Plates with Setscrews
AXPFG	Axiom Building Perimeter Foam Gasketing
AXPCC2	Axiom 2" Building Perimeter Closure Clip (optional)
AXTBC	Axiom T-Bar Connection Clip
AXPSPLINE	Axiom Interlocking Spline
AXDWT	Drywall Taping Flange

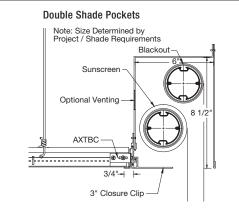


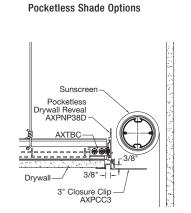
Item No.	Description
AXP355S	3-Sided Seismic Perimeter Pocket, Acoustical/Drywall Transition
AX4SPLICE	Axiom Splice Plates with Setscrews
AXPFG	Axiom Building Perimeter Foam Gasketing
AXPCC2	Axiom 2" Building Perimeter Closure Clip
BERCAXT	Axiom Beam End Retaining Clip

### 3-SIDED PERIMETER POCKETS AND CORNERS

	Item No.	Description	Dimensions	Length
3-Sided Perimet	er Pockets			
	AXP355	3-Sided Perimeter Pocket, Acoustical/Drywall Transition	5 x 5 x 5"	120"
	AXP3550SC	3-Sided Perimeter Pocket, Acoustical/Drywall Transition – Outside Corner	12 x 5 x 12"	12"
	AXP355ISC	3-Sided Perimeter Pocket, Acoustical/Drywall Transition — Inside Corner	12 x 5 x 12"	12"
	AXP355S	3-Sided Seismic Perimeter Pocket, Acoustical/Drywall Transition with 0.875" Flange	5 x 5 x 5"	120"
	AXP355SOSC	3-Sided Seismic Perimeter Pocket, Acoustical/Drywall Transition with 0.875" Flange — Outside Corner	12 x 5 x 12"	12"
	AXP355SISC	3-Sided Seismic Perimeter Pocket, Acoustical/Drywall Transition with 0.875" Flange — Inside Corner	12 x 5 x 12"	12"
	AXP355C	3-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece	5 x 5 x 5"	120"
	AXP355COSC	3-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece — Outside Corner	12 x 5 x 12"	12"
	AXP355CISC	3-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece — Inside Corner	12 x 5 x 12"	12"
	AXP3543E	3-Sided Perimeter Pocket – Exposed Application	5 x 4-3/4 x 5"	120"
	AXP3552	3-Sided Perimeter Pocket, Acoustical/Drywall Transition — 2 sides Pre-engineered 10' (120") aluminum pocket with acoustical/drywall transition on two sides and distinct architectural detail; used to organize ceiling cutouts or lighting.	5 x 5 x 5"	120"









# SHADE POCKETS AXIOM® Building Perimeter System

Declare Living Building Challenge Compliant





LOCATION DEPENDENT

#### 2-SIDED PERIMETER POCKETS AND NO POCKET DETAILS

	Item No.	Description	Dimensions	Length
2-Sided Perime	ter Pockets			
	AXP255	2-Sided Perimeter Pocket, Acoustical/Drywall Transition	5" x 5"	120"
	AXP2550SC	2-Sided Perimeter Pocket, Acoustical/Drywall Transition — Outside Corner	12 x 5 x 12"	12"
	AXP255ISC	2-Sided Perimeter Pocket, Acoustical/Drywall Transition — Inside Corner	12 x 5 x 12"	12"
	AXP236	2-Sided Perimeter Pocket, Acoustical/Drywall Transition	3" x 6"	120"
	AXP255C	2-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece	5" x 5"	120"
	AXP255COSC	2-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece — Outside Corner	12 x 5 x 12"	12"
	AXP255CISC	2-Sided Perimeter Pocket, Connection to Extension/Face Plate Piece — Inside Corner	12 x 5 x 12"	12"
No Pocket Deta	AXPNP34A	No Pocket, 3/4" Acoustical Flange with Closure Clip Attachment	2-11/16" x 3/4"	120"
	AXPNP34NR	No Pocket, 3/4" Acoustical Flange No Reveal with Closure Clip Attachment	2" x 3/4"	120"
	AXPNP125A	No Pocket, 1-1/4" Acoustical Flange with Closure Clip Attachment	2-11/16" x 1-1/4"	120"
4	AXPNP38D	No Pocket Drywall Taping Flange, 3/8" Reveal with Closure Clip Attachment	3-7/16" x 1-3/16"	120"
4	AXPNPD	No Pocket Drywall Taping Flange, with Closure Clip Attachment	2-11/16" x 3/4"	120"
	AXPNPFPA	No Pocket detail with Face Plate and Closure Attachment	3-11/16" x 1/8"	120"
·				

# SHADE POCKETS AXIOM® Building Perimeter System

#### **EXTENSIONS AND FACE PLATES**

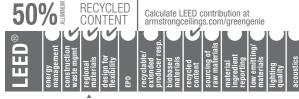
EXTEN	SIONS AND F	ACE PLATES			
		Item No.	Description	Dimensions	Length
Extensi	ions (custom s	lotting, perforating, or	cutouts available)		
	1	AXPEP4	Axiom® Perimeter Extension	4"	120"
Î		AXPEP6	Axiom Perimeter Extension	6"	120"
AXPEP4	AXPEP6 AXPEP8	AXPEP8	Axiom Perimeter Extension	8"	120"
į.	ľ	АХРЕР4Н	Axiom Perimeter Extension - Hook on both sides	4"	120"
)  -  -		AXPEPS6	Axiom Seismic Perimeter Extension with 0.875" Flange	6"	120"
Face P		slotting, perforating, or	cutouts available)		
.1	<u>[</u>	AXPDFP4	Axiom Perimeter Face Plate - Unslotted	4" Unslotted	120"
		AXPDFP4SLA	Axiom Perimeter Face Plate - Slotted	4" Slotted 3/4" x 23" 2-Slot Pattern	120"
		AXPDFP4SLB	Axiom Perimeter Face Plate - Slotted	4" Slotted 2-3/4" x 23" 1-Slot Pattern	120"
1	Ĺ	AXPDFP7	Axiom Perimeter Face Plate - Unslotted	7" Unslotted	120"
		AXPDFP7SLA	Axiom Perimeter Face Plate - Slotted	7" Slotted 3/4" x 23" 2-Slot Pattern	120"
		AXPDFP7SLB	Axiom Perimeter Face Plate - Slotted	7" Slotted 2-3/4" x 23" 1-Slot Pattern	120"
		AXPDFPS7	Axiom Seismic Perimeter Face Plate with 0.875" Flange - Unslotted	7" Unslotted	120"
		AXPDFPS7SLA	Axiom Seismic Perimeter Face Plate with 0.875" Flange - Slotted	7" Slotted 3/4" x 23" 2-Slot Pattern	120"
		AXPDFPS7SLB	Axiom Seismic Perimeter Face Plate with 0.875" Flange - Slotted	7" Slotted 2-3/4" x 23" 1-Slot Pattern	120"
		AXPDFP54	Axiom Seismic Perimeter Face Plate with 0.875" Flange - Unslotted	4" Unslotted	120"
		AXPDFP54SLA	Axiom Seismic Perimeter Face Plate with 0.875" Flange - Slotted	4" Slotted 3/4" x 23" 2-Slot Pattern	120"
		AXPDFP54SLB	Axiom Seismic Perimeter Face Plate with 0.875" Flange - Slotted	4" Slotted 2-3/4" x 23" 1-Slot Pattern	120"
1	Ĵ_	AXPDFP4DT	Axiom Perimeter Face Plate Drywall Transition - Unslotted	4" Unslotted	120"
		AXPDFP4DTSLA	Axiom Perimeter Face Plate Drywall Transition - Slotted	4" Slotted 3/4" x 23" 2-Slot Pattern	120"
		AXPDFP4DTSLB	Axiom Perimeter Face Plate Drywall Transition - Slotted	4" Slotted 2-3/4" x 23" 1-Slot Pattern	120"
I	Ĵ	AXPDFP7DT	Axiom Perimeter Face Plate Drywall Transition - Unslotted	7" Unslotted	120"
		AXPDFP7DTSLA	Axiom Perimeter Face Plate Drywall Transition - Slotted	7" Slotted 3/4" x 23" 2-Slot Pattern	120"
		AXPDFP7DTSLB	Axiom Perimeter Face Plate Drywall Transition - Slotted	7" Slotted 2-3/4" x 23" 1-Slot Pattern	120"



# SHADE POCKETS AXIOM® Building Perimeter System

Declare Living Building Challenge Compliant





LOCATION DEPENDENT

#### FACE PLATES, CLOSURE CLIPS, AND ACCESSORIES

	Item No.	Description	Dimensions	Length
Face Plates				
	AXFFP4	Axiom® Perimeter Face Plate	4" Unslotted	120"
	AXFFP6	Axiom Field Face Plate	6" Unslotted	120"
Closure Clips				
	AXPCC2	2" Axiom Building Perimeter Closure Clip	2"	120"
	AXPCC3	3" Axiom Building Perimeter Closure Clip	3"	120"
Accessories				
	AXBTSTR	Axiom Bottom Drywall Trim Straight for 5/8" Drywall	120 x 1-1/8 x 27/32"	120"
	BERCAXT	Axiom Beam End Retaining Clip for Seismic Applications	_	_
	AXPWC	Axiom Wall Clip with Hook for Face Plate	_	2"
	AXPWCCP	Axiom Wall Clip	_	120"
	AXTBC	Axiom T-Bar Connector Clip: Galvanized sheet steel formed to fit into special trim channel bosses. Provides positive mechanical lock with factory-installed screw and screw-fastened connection to suspension system members that intersect the trim channel.	_	_
	AXCPCI	End Plate (3-sided) for AXP355: Provides a capping at the end of a perimeter pocket.	_	_
	AXCPCIV	End Plate (2-sided) for AXP255: Provides a capping at the end of a perimeter pocket.	_	_
	AXP3543E	3-sided, pocket end cap	_	_
	AX4SPLICE	Axiom Splice Plate: Anodized sheet steel formed to fit into the trim channel bosses and provides positive lock between abutting channels with factory-installed setscrews.	_	_
	AXPFG	Foam Gasketing: Gasketing used between perimeter pocket piece and exterior window or exterior wall.	_	25' Roll
	AXPSPLINE	Axiom Building Perimeter Interlocking Spline for connection between Perimeter Pocket and Extension or Face Plate.	_	120"



#### SHADE POCKETS

# AXIOM® Building Perimeter

#### Compatible with Lutron® Shade Pocket



This pre-engineered extruded aluminum building perimeter trim integrates automated shades, at the same time tying into acoustical or drywall ceiling systems – without any visible fasteners.

#### **KEY SELECTION ATTRIBUTES**

Axiom® Building Perimeter System is an extruded aluminum trim solution to create the transition between the interior of a building's perimeter and the ceiling plane.

- · Allows quality control at the perimeter, reducing time required to detail and specify
- Compatible with the Lutron® Sivoia® QS Roller 100/150/300 Shading System for faster, simpler installation
- $\stackrel{\cdot}{\bullet}$  Eliminates the framing, boarding, taping, mudding, sanding, and painting commonly used for drywall pockets
- · Seismic code compliant
- · Armstrong Ceilings 10-Year Limited Warranty, 30-Year System Warranty

#### **COLOR**



(WH)



available.



VISUAL SELECTION

Item No. ◆	Description	Dimensions (Inches)	Length
		()	

#### Three-sided Lutron<sub>®</sub> Compatible Shade Pockets and Accessories

Axiom Building Perimeter Pocket: Pre-engineered 10' (120") aluminum pocket formed with distinct architectural detail; three-sided pocket with special bosses to accept T-Bar Connector Clip and Splice Plate to provide positive mechanical lock with no visible fasteners; factory-finished to match approved samples; and factory- or field-out miters to match

AXP355L	3-Sided Lutron Compatible Shade Pocket	5" x 5"	120"	
AXP355LS	3-Sided Seismic Lutron Compatible Shade Pocket	5" x 5"	120"	
AXP355LE AXP355LE	3-Sided Exposed Lutron Compatible Shade Pocket 3-Sided Exposed Lutron Compatible Shade Pocket, colors	5" x 5"	120"	
AXPCC3L	3" Shade Closure Clip	3"	120"	
AXPCC3L  AXP355LEEC	3" Shade Closure Clip, colors  Lutron Exposed End Cap	5" x 5"		
AXP355LEEC	Lutron Exposed End Cap, colors	5 % 5	_	
AXP355LECR	Lutron End Cap, right	5" x 5"	-	
AXP355LECL	Lutron End Cap, left	5" x 5"	-	

<sup>◆</sup> Add the 2-letter color suffix to the item number when specifying or ordering (Example: AXP355LE B L)



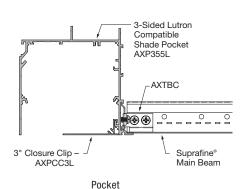
#### SHADE POCKETS AXIOM® Building Perimeter

# Compatible with Lutron® Shade Pocket

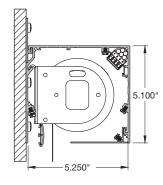
# LOCATION DEPENDENT

#### VISUAL SELECTION

Item No.	Description	Dimensions (Inches)	Length	
Three-sided Lutron	Compatible Shade Pockets and Accessories (cont'd	.)		
AXP355LSECR	Lutron Seismic End Cap, right	5" x 5"	-	
AXP355LSECL	Lutron Seismic End Cap, left	5" x 5"	-	
AXPWCCP2	Axiom Wall Clip	2" x 1/2"	2"	
AX4SPLICE	Axiom Splice Plate with Setscrews	-	8"	
AXTBC	Axiom T-Bar Connector Clip	-	-	







Lutron Integrated Bracket for Axiom® Building Perimeter System (provided by Lutron)

Complete Solution

#### **ENSURE COMPATIBILITY WHEN SPECIFYING**

To ensure compatibility, go to www.performanceshadingadvisor.com or refer to BPCS-5161 Lutron® Compatible Shade Pocket brochure.



#### PHYSICAL DATA

#### Material

Extruded aluminum

#### Surface Finish

Factory-applied baked polyester paint finish

#### Cross Tee/Main Beam Interface

Prelude® XL® 15/16" Exposed Tee, Suprafine® 9/16" Exposed Tee, Silhouette® XL® 9/16" Bolt-Slot, Interlude® XL® HRC 9/16" Dimensional Tee, Sonata® XL® 9/16" Dimensional Tee, Drywall Grid System

#### **End Detail**

Splice Plate with Screws Custom options are available

#### Lutron<sub>®</sub> Shading Customer Service

Phone: 1-800-446-1503 Email: shadingcustsvc@lutron.com www.performanceshadingadvisor.com

TechLine / 1 877 276-7876

BPCS-5159-517

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# DETAILS MAKETHE DIFFERENCE

# Improve Finished Aesthetics with Pre-Engineered Solutions

Armstrong® ceiling solutions are pre-engineered with attention to detail to ensure you control the finished aesthetic of the ceiling and achieve your design intent.

On every project you will encounter these common conditions. The following pages feature Armstrong® pre-engineered integrated solutions for these common conditions.

We have compared our pre-engineered solutions to traditional construction methods, and present the benefits that support their use. By utilizing these Armstrong® integration solutions, you will be able to specify and maintain the eye-candy designs of your vision while solving everyday challenges.

















#### Window & Shade Pockets

When it comes to shade pockets or the perimeter of an application, trying to accomplish the transition between the interior of a building's perimeter and the ceiling plane can be challenging.



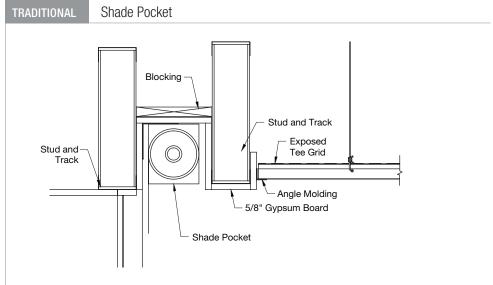
# ARMSTRONG® SOLUTION BENEFITS:

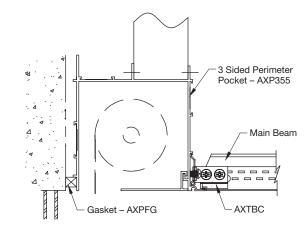
- Regain aesthetic control at the building perimeter
- Quality control at the perimeter, reduce time required to detail and specify the integration of perimeter solutions
- Reduce risk associated with field fabricated, labor-intensive accommodation of air distribution, window pockets, and ceiling elevation changes at the perimeter of a building

# ARMSTRONG® SOLUTION FEATURES:

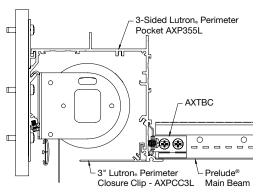
- Work with drywall and acoustical suspension systems like no other pocket can for perfect fit and finish
- Integrate drapery pockets, window shades, air distribution, and changes in ceiling elevation
- Installs 12 times faster than drywall pockets and twice as fast as traditional pockets

Refer to Pgs. 357-364 for Axiom® Shade Pocket details

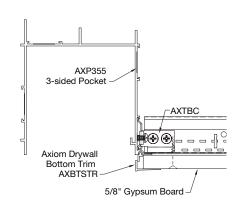




Axiom® Building Perimeter Shade Pockets



**ARMSTRONG®** 



#### Flush Transitions

Transitions are used to join two ceiling planes at the same height.



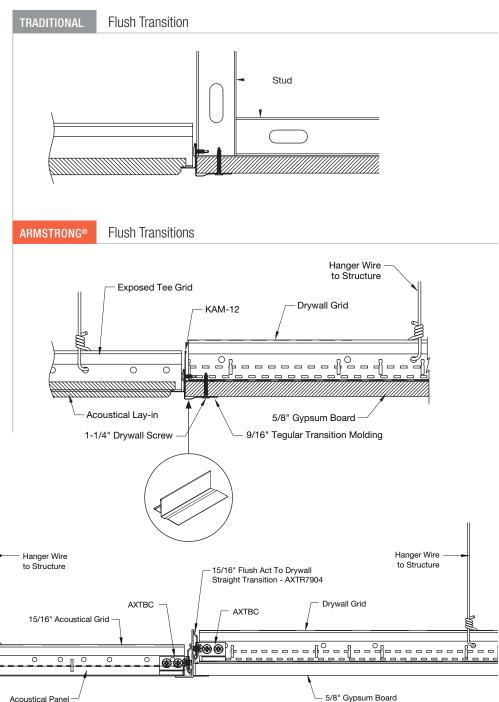
# ARMSTRONG® SOLUTION BENEFITS:

- Extruded aluminum trim provides more crisp-edge detailing compared to conventional roll-formed steel systems
- Acoustical-to-drywall transitions are available straight and curved for perfect fit and finish every time
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today

# ARMSTRONG® SOLUTION FEATURES:

- Accommodates acoustical-to-acoustical, acoustical-to-drywall, drywall-to-drywall, and drywall-to-acoustical
- Available in extruded aluminum and stainless steel transition options.
   Extruded aluminum can be straight or curved.
- Compatible with Armstrong® suspension systems and Drywall Grid Systems

Refer to Pgs. 424-425 for Axiom® Transition details





# 1" to 10" Straight or Curved Transitions (Elevation Change)

Transitions are used in place of a bulkheads when there is a high transition less than 10".



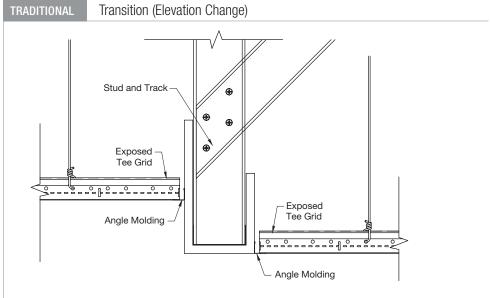
# ARMSTRONG® SOLUTION BENEFITS:

- Creates a smooth transition between drywall and suspended ceilings (mineral fiber, metal, or wood)
- Extruded aluminum trim provides more crisp-edge detailing compared to conventional roll-formed steel systems
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Acoustical-to-Drywall Transitions are available straight and curved for perfect fit and finish every time

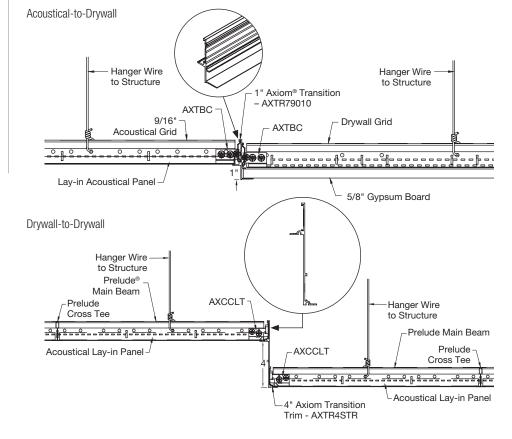
# ARMSTRONG® SOLUTION FEATURES:

- Vector® panels are available straight only for use with full-size Vector panels (field cutting Vector panels can be avoided)
- Elevation change accommodates acoustical-to-acoustical, acoustical-todrywall, drywall-to-acoustical, drywallto-drywall height transitions of 1", 2", 4", 6", 8", and 10"
- Compatible with Armstrong® suspension systems and Drywall Grid Systems

Refer to Pgs. 424-425 for Axiom® Transition details



ARMSTRONG® Straight or Curved Transitions (1" to 10" Elevation Change)





#### F-Molding Transitions Greater Than 10"

F-molding transitions are used for drywall height transitions greater than 10" and can be 48" without dropping a stud.



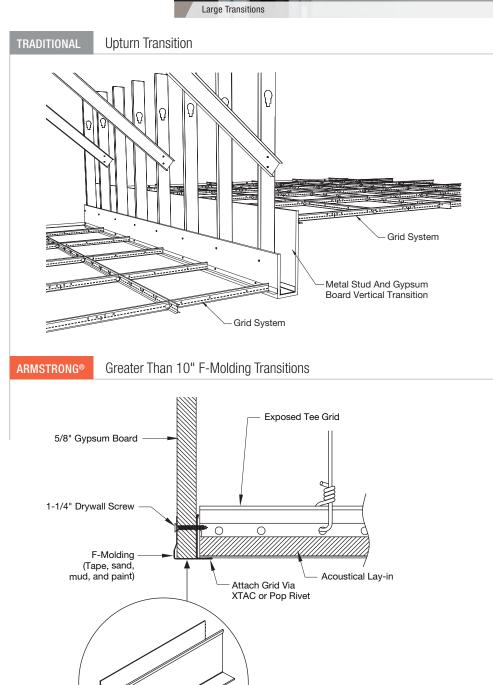
#### **ARMSTRONG® SOLUTIONS BENEFITS:**

- · Rolled-formed steel with integrated mud flange - saving time, material, and labor on vertical transitions
- · Acoustical-to-drywall transitions are available straight and curved for perfect fit and finish every time
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today

#### **ARMSTRONG® SOLUTIONS FEATURES:**

- · Accommodates acoustical-to-acoustical, acoustical-to-drywall, drywall-to-drywall, and drywall-to-acoustical
- Height transitions of greater than 10" with F-molding
- · Compatible with Armstrong® suspension systems and Drywall Grid Systems

Refer to Pg. 404 for Axiom® **Transition Molding details** 





#### **Bulkheads & Soffits**

Traditional methods for installation of bulkheads and soffits leave many finishing decisions to be handled on site, making it hard to assure the controls are in place to maintain design intent.



# ARMSTRONG® SOLUTIONS BENEFITS:

- Pre-engineered systems are designed so you know what the details of finished installations will look like long before the installation takes place
- Systems are tested for fit and finish, and engineered to be code compliant
- Reduce the risk of on-site solutions because fit and finish are controlled and reliable

# ARMSTRONG® SOLUTIONS FEATURES:

- QuikStix™ Soffit Drywall Framing System guarantees a perfectly crafted 15, 30, 45, 60, or 90-degree angle every time
- Drywall grid is manufactured with additional rout locations to accommodate F-Type Light Fixtures, access panels, and air diffusers
- Engineered to give you design control, while providing a green installation by reducing steel up to 15%

Reverse Angle Molding
Channel Molding

KAM-12

Armstrong® Drywall

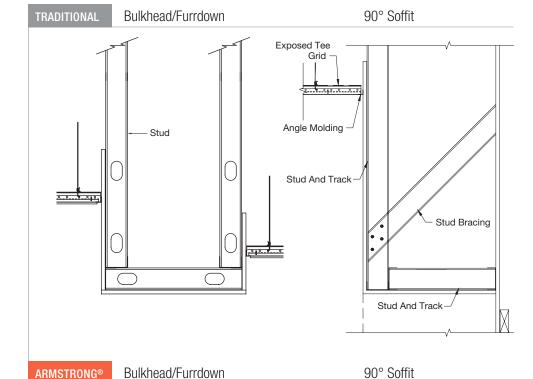
Grid System

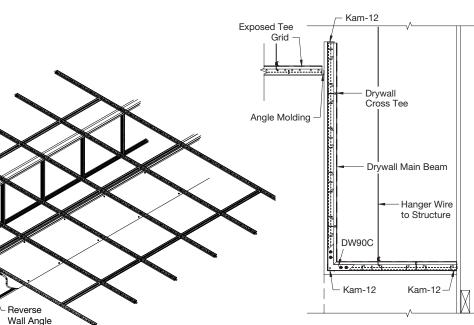
Refer to Pg. 434 for Armstrong®
QuickStix™ Soffit Drywall Framing
System details

Armstrong Exposed
Tee Grid System

DW90C

KAM-12





#### Direct Light Coves & Pockets

Traditional track and stud drywall installation of light coves into the ceiling plane or at the perimeter can create numerous hurdles in your design intent by not providing predictable performance or perfect integration.



#### **ARMSTRONG® SOLUTIONS BENEFITS:**

- · Fully concealed integrated design installs with all Armstrong® acoustical and drywall suspension systems
- · Low-profile design with plug-and-play lighting for shallow plenum corridors or entryways
- Integrated lighting partner (XAL®) makes the complete solution easy to specify and maintain lighting symmetry

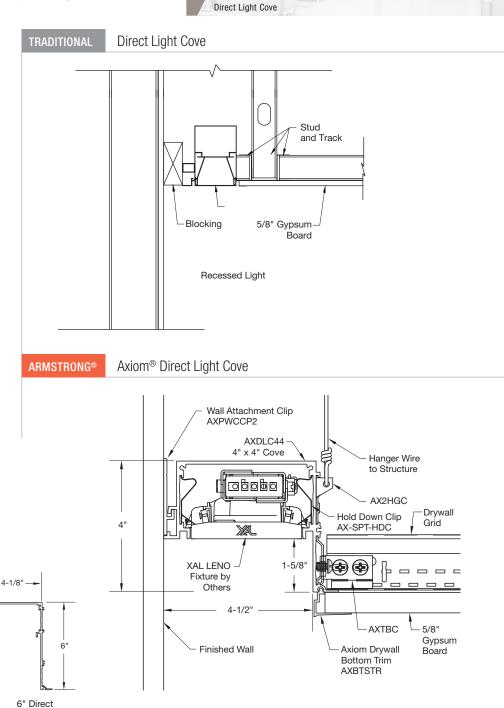
#### **ARMSTRONG® SOLUTIONS FEATURES:**

- Pre-engineered, extruded aluminum light cove profiles with integrated XAL® LENO® light fixture
- 4" x 4" and 4" x 6" Direct Light Cove options available
- . Installs 90% faster with just 10% of the labor of traditional light coves

Refer to Pg. 355 for Axiom® **Direct Light Cove details** 

4-1/8" -

4" Direct Light Cove





Light Cove

#### Indirect Light Coves & Pockets

Traditional track and stud drywall installation of light coves into the ceiling plane or at the perimeter can create numerous hurdles in your design intent by not providing predictable performance or perfect integration.



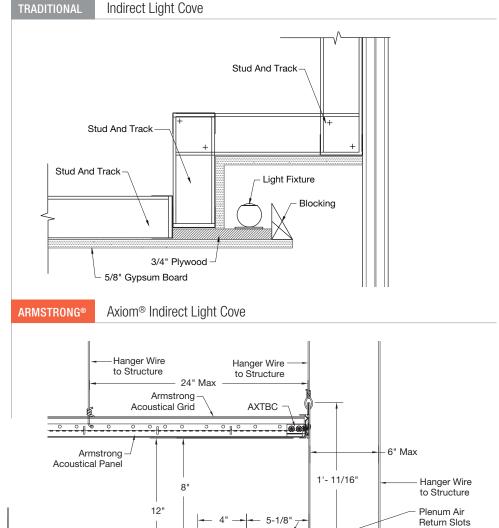
# ARMSTRONG® SOLUTIONS BENEFITS:

- Offer predictable lighting performance and perfect integration with all Armstrong<sup>®</sup> suspension systems
- Integrated lighting partners make the complete solution easy to specify and maintain lighting symmetry

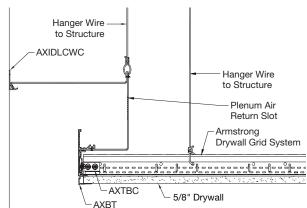
# ARMSTRONG® SOLUTIONS FEATURES:

- Variety of options with both Ceiling-to-Wall and Ceiling-to-Ceiling light coves and sizes
- New Knife Edge® profile brings acoustical tile out to the edge of the cove
- Installs 90% faster with just 10% of the labor of traditional light coves

Refer to Pg. 356 for Axiom® Indirect Light Cove details



AXCCLT45





Armstrong

Armstrong

Acoustical Panel

Acoustical Grid

#### Flat & Curved Drywall

Traditional drywall installation methods leave many finishing decisions to be handled on-site, making it hard to assure the controls are in place to maintain design intent, especially with curved details.



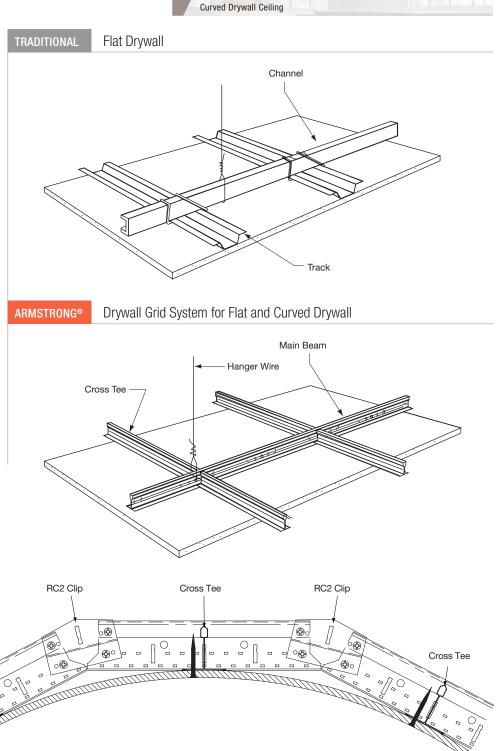
#### **ARMSTRONG® SOLUTIONS BENEFITS:**

- · Ultimate control of the curve expand your design beyond traditional pre-selected or pre-determined radii
- · Simplify the design of corridors, smallroom configurations, restrooms, and storage closets
- Engineered to use less steel than traditional drywall ceiling framing methods

#### **ARMSTRONG® SOLUTIONS FEATURES:**

- · Create custom radii to suit any design by combining our faceted main beam with our RC2 clip
- · Variety of pre-engineered solutions for direct-to-deck installations, vertical drops, and short spans
- · Engineered to give you design control, while providing a green installation by reducing steel up to 15%

Refer to Pgs. 430-432 for Armstrong® Drywall Grid System details





Cross Tee

#### Interior Glass Partitions

Creating the illusion of the glass appearing to pass through ceiling plane is difficult without the proper integrated solutions at your fingertips.



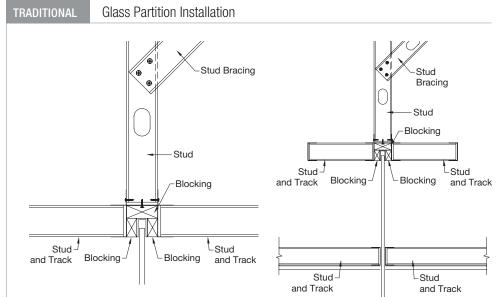
# ARMSTRONG® SOLUTIONS BENEFITS:

- Integration with all Armstrong® acoustical and drywall ceiling systems for a clean installed visual so glass can disappear into the plenum
- Coordinated fit and finish ensure delivery of design intent
- Completely concealed integration without the need for a drywall bulkhead

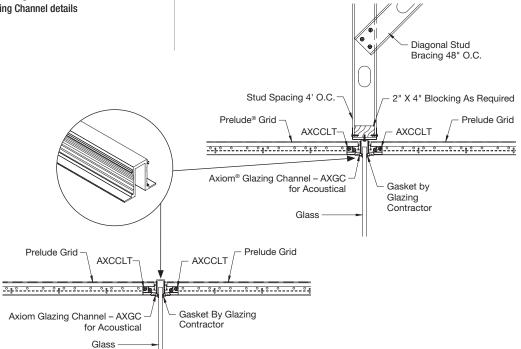
# ARMSTRONG® SOLUTIONS FEATURES:

- Five trim profile options to coordinate Lay-in, Tegular, and Vector® ceiling panels and Drywall Grid Systems
- Recessed profiles use with 3/8" and 1/2" thick interior glass partition walls
- Seismic solution for category D, E, F installations

#### Refer to Pg. 418 for Axiom® Glazing Channel details



Axiom® Glazing Channel for Glass Partitions



**ARMSTRONG®** 

#### Corridors

Crowded or low plenums are always a challenge when designing due to many important components running above the ceiling plane, especially within healthcare applications.

# Corridor

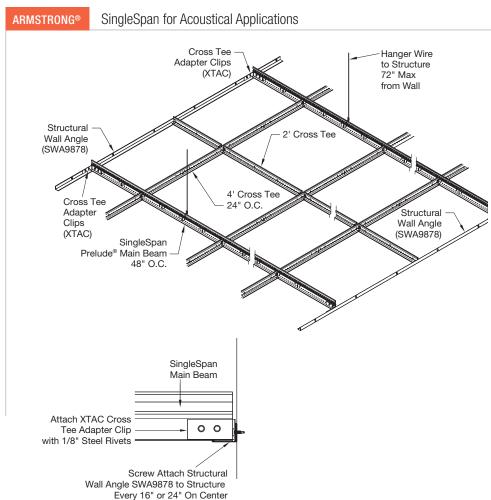
#### **ARMSTRONG® SOLUTIONS BENEFITS:**

- · Reduces or eliminates hanger wires perfect for healthcare/education spaces with crowded plenums
- SingleSpan<sup>™</sup> provides improved access to utilities in the plenum post installation

#### **ARMSTRONG® SOLUTIONS FEATURES:**

- · Compatible with all Armstrong® heavyduty suspension main beams using StrongBack™ Support Hangers
- · Structural wall angle maximizes the load-carrying performance of SingleSpan
- · Seismically tested and approved suspension installation configuration (IAPMO certified, Evaluation Report #0244)

Refer to Pgs. 397-398 for Armstrong® SingleSpan™ Suspension System details



#### Corridors

Traditional track and stud drywall installation across wide corridors can be difficult and interfere with components above the ceiling plane.



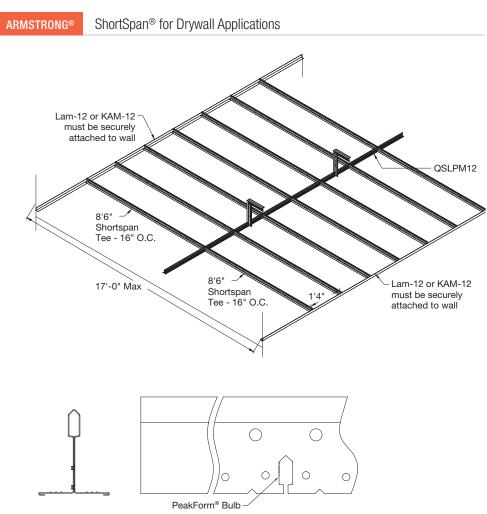
# ARMSTRONG® SOLUTIONS BENEFITS:

- Reduces or eliminates hanger wires perfect for spaces with crowded plenums
- Span 5/8" drywall 8'-6" unsupported or up to 17' with StrongBack™ or Locking Pocket Main down the middle
- 2/3 less material (wires to structure & main runners/CRC)
- · Improve soffit efficiency

# ARMSTRONG® SOLUTIONS FEATURES:

- Compatible with all Armstrong<sup>®</sup> heavyduty suspension main beams using StrongBack™ Support Hangers
- Balanced profile stays flat during installation
- Seismically tested and approved suspension installation configuration (IAPMO certified, Evaluation Report #0244)

Refer to Pg. 435 for Armstrong® ShortSpan® Drywall Framing System details





We take great pride in creating time for our customers through pre-engineered solutions and integrated partnerships. The result — a wide range of compatible fixtures that include lighting, heating, cooling, air diffusers, sprinklers, and shades from our partners. These solutions have been pre-qualified for fit and finish. There is no need to research fixture compatibility for your ceiling layout — we have already done the work for you.

Learn more about our integrated solution partners at: armstrongceilings.com/partners



#### INTEGRATED SOLUTION PARTNERS

#### INTEGRATED SOLUTION PARTNERS

#### **AIR DIFFUSERS**

- Carnes<sup>®</sup>
- Price Industries®
- Titus®



#### **HEATING & COOLING**



- Radiant Electric Heat
- TROX® USA



#### **LIGHTING & FIXTURES**

Acoustical On-Center Linear Lighting

XAL

**Drywall Linear Lighting** 

XAL

Formations Lighting Cloud Kits

· Philips Ledalite

**T-BAR LED Smartlight**<sup>™</sup>

JLC-Tech

**Intersection Downlighting** 

USAI® Lighting

TechZone® Ceiling Systems

- Corelite
- Focal Point
- Kurt Versen
- Linear Lighting
- Litecontrol
- MARK Architectural Lighting<sup>™</sup>
- Neo-Ray<sup>™</sup>
- Philips
- RSA Lighting
- XAL



**Direct Light Coves** 

XAL

**Indirect Light Coves** 

- Axis Lighting
- Litecontrol
- Vode

#### SPRINKLER CONNECTIONS



FlexHead® Industries



#### **SHADES**

 Axiom® Building Perimeter Shade Pockets – Lutron® Compatible



# SUSPENSION SYSTEMS, TRIM & DRYWALL GRID

Selector

Product information listed in this chart pertains to general product families, and may not apply to each product item. Before specifying or purchasing products, consult product details on our web site: www.armstrongceilings.com/commercial or call TechLine at 1 877 276-7876.

Improved suspension systems that perform better, carry increased ceiling load, and reduce installation hassles are the result of innovative features like PeakForm® profile and SuperLock™² main beam clip. PeakForm main beams and cross tees are manufactured with a bulb shape and taller profile to create a stronger, more stable suspension system that will get the job done better. Main beams have an improved load-carrying capacity that exceeds ASTM standards for intermediate and heavy-duty load performance. The PeakForm profile also meets the requirements for installation in all seismic categories, so you can specify it anywhere a 9/16" or 15/16" heavy-duty suspension system is desired.

Main beams also feature  $SuperLock^2 - a$  staked-on clip for a tighter, more secure bulb-to-bulb connection. Main beams with the SuperLock clip can be disconnected and reconnected laterally in low-clearance areas, or in the middle of a room.



Wherever you see the PeakForm icon, you can get the benefits of the PeakForm profile.

	INTERLUDE® XL® HRC 9/16"	(Pgs. 385-386)
	PRELUDE® Concealed 15/16"	(Pg. 387)
<b></b>	PRELUDE® ML 15/16"	(Pg. 388)
SUSPENSION SYSTEMS GENERAL APPLICATIONS	PRELUDE ® XL® 15/16"	(Pgs. 391-392)
STE	PRELUDE® XL® Fire Guard™ 15/16"	(Pgs. 390)
N S)	PRELUDE® XL® HRC 15/16"	(Pgs. 391-393)
SUSPENSION SYSTEW	SILHOUETTE® XL® 9/16"	(Pgs. 395-396)
PEN	SONATA® 9/16"	(Pg. 399)
SUS	SUPRAFINE ® ML 9/16"	(Pgs. 400-401)
	SUPRAFINE ® XL® 9/16"	(Pgs. 400-401)
	SUPRAFINE® XL® Fire Guard 9/16"	(Pgs. 400-401)
	SUPRAFINE ® XL® HRC 9/16"	(Pgs. 400-401)
	360° PAINTED Grid Suspension System	(Pg. 383)
<u>s</u> <u>s</u>	CLEAN ROOM™ Co-Extruded Aluminum 15/16", 1-1/2"	(Pg. 384)
SUSPENSION SYSTEMS SPECIAL APPLICATIONS	CLEAN ROOM Co-Extruded Steel 15/16"	(Pg. 384)
SYS	PRELUDE Plus XL Aluminum 15/16"	(Pg. 389)
ON	PRELUDE® Plus XL Fire Guard 15/16"	(Pg. 390)
AL A	PRELUDE Plus XL Stainless Steel 15/16"	(Pg. 389)
SUSPENSION SYSTEN SPECIAL APPLICATIO	PRELUDE® XL® for Exterior Applications 15/16"	(Pg. 390)
S S	PRELUDE® XL MAX®	(Pgs. 393-394)
	SINGLESPAN™ Acoustical Corridor Suspension System	(Pgs. 397-398)
	AXIOM® Classic	(Pgs. 415-416)
	AXIOM One Piece for Drywall	(Pg. 417)
	AXIOM Glazing Channel	(Pg. 418)
_ [	AXIOM® for Interlude®	(Pg. 419)
E E	AXIOM® Knife Edge®	(Pg. 420)
E E	AXIOM Moldings and Column Rings	(Pg. 427)
AXIC	AXIOM Paired	(Pg. 421)
	AXIOM Profiled	(Pg. 422)
	AXIOM Soft Edge	(Pg. 423)
	AXIOM Transitions	(Pgs. 424-425)
	AXIOM® Vector®	(Pg. 426)
	DRYWALL Grid Systems - Flat	(Pgs. 430-431)
MS	DRYWALL Grid Systems - Curved	(Pg. 432)
YWA	QUIKSTIX™ Locking Pocket Main Beams	(Pg. 434)
DR	QUIKSTIX Soffits	(Pg. 433)
	SHORTSPAN® Drywall Framing System	(Pgs. 435-436)

 -		Face	Profile		SUA	L CR	RITEF	RIA	Col	ors				Mat	<b>PE</b> erial	RF0		ANC Load		RITEI 	<b>RIA</b> Dura	bility			S	PEC	IAL .	APP	LICA	ATIO	N			
Concealed	9/16"	15/16"	1-1/2"	Dimensional Tee	Slotted Tee	Limited Upward Access	Black Reveal	Standard Colors	Metallic Finish	Aluminum Finish	White	Custom Colors	Hot-Dipped Galvanized Steel	Stainless Steel	Aluminum	Co-extruded	Heavy-Duty	Intermediate-Duty	Light-Duty	Humidity/Corrosion Resistance	Chemical/Corrosion Resistance	Fire Resistance **	Seismic Rx® Suspension System*	Clean Rooms	Congested Plenums	Data Centers	Locker Rooms/Shower Rooms	Laboratories	High Humidity/Unconditioned Spaces	Exterior Applications - Wind Uplift	Non-magnetic Areas	Swimming Pools	10-Year Availability	Non-standard Configurations
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Not all components can be used in all seismic categories.

\*\* Not all systems for use in all UL designs.

\*\*\* 360° finish available as special order.

<sup>† 1/4&</sup>quot; reveal only. †† Hanger wires at 36" on center will provide load capacity of 13.47 lbs/LF. ††† G90 components only.



# Seismic Performance

#### ARMSTRONG® SEISMIC RX® SUSPENSION SYSTEM SAVES TIME AND MONEY

Armstrong Ceilings offers an ICC-ES evaluated approach to installations (ESR-1308). The Armstrong® Seismic Rx® Suspension System offers a labor- and cost-saving method of meeting seismic code without risk of delaying your construction schedule.

#### **IBC Category C:**

- · Easier to square the system by attaching to adjoining walls
- · Tighter, more secure installation
- · Eliminate stabilizer bars

#### IBC Category D, E, F:

- Reduce material costs by using 7/8" molding
- · Eliminate stabilizer bars
- · Eliminate undesired visual 2" wall molding

#### ICC-ES Recognizes the Armstrong® Seismic Rx Suspension System as a Code Compliant Solution.

The independent and expert evaluation and confirmation by ICC-ES provide the code official with proven evidence supporting the Armstrong® Seismic Rx® Suspension System as a code-compliant alternative design to current IBC requirements.

The performance of the Armstrong® Seismic Rx® Suspension System is based on a specific combination of components and method of installation.

Other manufacturers' components and installation methods were not tested and are not covered in this evaluation. Substitution of other components puts the system at risk and is not allowed by this ESR report.

#### CATEGORY INSTALLATION REQUIREMENTS

Ceiling installation should conform to basic A, B minimums established in ASTM C636.

C To be installed to ASTM E580 recommendations for areas subject to light-to-moderate seismic activity.

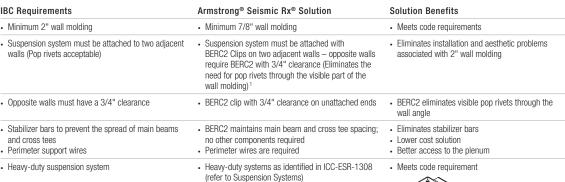
D, E, F Category D, E, and F ceilings are to be installed to ASTM E580 and IBC recommendations for areas subject to severe seismic activity.

> See armstrongceilings.com/seismic for more on seismic performance.

#### ALTERNATIVE INSTALLATION - CATEGORY C

IBC Requirements	Armstrong® Seismic Rx® Solution	Solution Benefits
Minimum 7/8" wall molding	Minimum 7/8" wall molding	Meets code requirements
Suspension system must not be attached to the wall molding	Suspension system may be cut tight and screw attached on two adjoining walls	Easy to square up the system     Faster, tighter suspension system installation
Minimum 3/8" clearance on all sides     Minimum 3/8" overlap of suspension system on the wall molding	Minimum 3/8" clearance on two unattached walls	Better overall visual
Ends of main beams and cross tees must be tied together to prevent spreading	BERC2 or BERC on all suspension systems components	Eliminates stabilizer bars     Lower cost solution     Better access to the plenum
Perimeter wires are not needed     Intermediate-duty suspension system	Perimeter wires are not needed     Intermediate-duty suspension system	Meets code requirements
NOTE: Requirements for essential use facilities may be different.	Contact TechLine for details.	

ALTERNATIVE INSTALLATION - CATEGORY D, E, F



<sup>1</sup> Pop rivets optional on attached walls









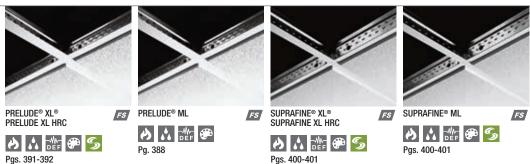


#### SUSPENSION SYSTEMS

#### At-a-Glance

Standard Suspension Systems

#### **EXPOSED TEE SUSPENSION SYSTEMS**



#### **DIMENSIONAL TEE SUSPENSION SYSTEMS**



# **CONCEALED SUSPENSION SYSTEM**



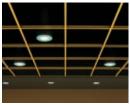
PRELUDE®



#### SLOTTED TEE SUSPENSION SYSTEMS



#### PAINTED SUSPENSION SYSTEM



360° PAINTED Grid System





Look for the FastSize™ Suspension Systems icon for made-to-order Interlude®, Prelude® XL®, Silhouette® XL®, Silhouette® XL® 1/8" Reveal, and Suprafine® XL® suspension systems.

The sizes you want... factory finished... with the route holes you need... one carton minimums... shipped fast! See "Item No." column on product pages for size availability.

- · Factory finished
- · Size flexibility from: 36" - 144" for main beams; 3" - 144" for cross tees
- · Fast lead time: 2 weeks for suspension systems 24-hour quotes
- 24-hour ship confirmation

#### SUSPENSION SYSTEMS

#### At-a-Glance

Special Application Suspension Systems

#### **ENVIRONMENTAL TEE SUSPENSION SYSTEM**



PRELUDE® PLUS XL® Aluminum, PRELUDE® PLUS XL Stainless Steel PRELUDE® PLUS XL Fire Guard™ PRELUDE® XL for Exterior Applications





Pgs. 389-390

#### CORRIDOR SUSPENSION SYSTEM



SINGLESPAN™ Acoustical





Pgs. 397-398

#### **CLEAN ROOM SUSPENSION SYSTEM**



CLEAN ROOM™



Pg. 384

#### DATA CENTER SUSPENSION SYSTEM



PRELUDE® XL Max®







Pgs. 393-394

#### **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key product attributes

#### Fire Resistance



Available in fire-resistive options (Fire Guard™); tested in specific UL floor/ceiling or roof/ceiling construction design assemblies.

#### Humidity/Corrosion Resistance

HumiGuard® Plus



Recommended for areas subject to high humidity, up to, but including, standing water.

#### HumiGuard Max



Maximum humidity resistance.

#### Chemical/Corrosion Resistance



#### Seismic Rx® Suspension System



Category D, E & F

#### Sustainability



Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.

#### Color Availability



Available in color.

#### DC FLEXZONE® SUSPENSION SYSTEMS



SILHOUETTE® XL® (Featured in Integrated Ceiling Solutions)



SUPRAFINE® XL® (Featured in Integrated Ceiling Solutions)



Pgs. 345-346

Tech Black

(BL)

Stainless

Steel (SS)



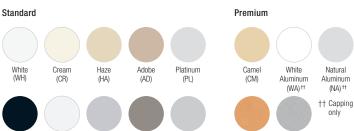
Pgs. 345-346

**COLORS** Due to printing limitations, shade may vary from actual product.

NOTE: Suspension system colors to coordinate with MetalWorks™ Tin, Tincraft™ faux finishes, and custom-painted panels are "S" Service items and available upon request.

Copper

(CP)



Silver Satin

(SA)

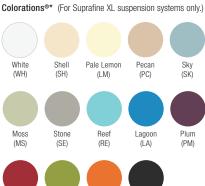


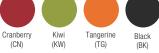
Silve

#### **Powder Coated**



White finish is also available on select Axiom® Classic Knife Edge®, and Vector® trim profiles





<sup>\*</sup> For more information about Clorations® Colors refer to page 241.

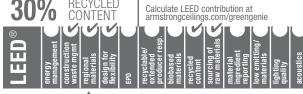


Silver Grey (SG)

Gun Metal Grey (MY)

#### 360° PAINTED GRID

#### Suspension System



LOCATION DEPENDENT

This 15/16" or 9/16" profile suspension system is used to define open plenum spaces, or used as decorative accent on clouds and canopies.

#### **KEY SELECTION ATTRIBUTES**

- · Helps to define space in an open/exposed plenum concept
- · Provides a structure to hang signage or lights, and creates transitions for speakers and HVAC
- Available in Suprafine® 9/16" and Prelude® 15/16" profiles





- . SuperLock™ main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove/relocate
- · Hot-dipped galvanized coating inhibits red rust better than electrogalvanized or painted systems
- · 2.0 mil thick powder coating on all components\*\*\*
- Choice of more than 180 colors; matte and gloss finishes\*\*
- $\mathsf{XL}^{\otimes}$  staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- 10-Year Limited Warranty



Colors Available

#### **VISUAL SELECTION**

Face Profile	Item No.	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT	,	Fire Guard™	Seismic Category
360° Pai	inted – Powdei	r-Coated Paint – (made	to order)	4 Ft.	5 Ft.		s represent high of performance.
Prelude	³ XL®						
15/16"	56418†	12' HD Main Beam	144 x 15/16 x 1-11/16"	16.50	8.73		•
15/16"	56421†	4' Cross Tee	48 x 15/16 x 1-11/16"	10.34	_	_	_
15/16"	56419†	2' Cross Tee	24 x 15/16 x 1-11/16"	51.83	_	_	_
Suprafin	e® XL						
9/16"	7501†	12' HD Main Beam	144 x 9/16 x 1-11/16"	16.86	10.62		•
9/16"	XL7540†	4' Cross Tee	48 x 9/16 x 1-11/16"	10.34	_	_	_
9/16"	XL7520†	2' Cross Tee	24 x 9/16 x 1-11/16"	51.83	_	_	_
Molding							
7/8"	7800†	12' Hemmed Angle Molding	144 x 7/8 x 7/8"	-	_		-
360° Pai	nted – Baked	Polyester Paint (clips a	re not painted)				
Prelude	XL (only)						
15/16"	730136**	12' HD Main Beam	144 x 15/16 x 1-11/16"	16.73	8.73		•
15/16"	XL734036**	4' Cross Tee	48 x 15/16 x 1-11/16"	12.25	_		-
15/16"	XL732036**	2' Cross Tee	24 x 15/16 x 1-11/16"	61.33	_	_	_
Molding							
7/8"	780036**	12' Hemmed Angle Molding	144 x 7/8 x 7/8"	_	_		_
* Simple	Span						

Items 730136, XL734036, XL732036, and 780036 are available in Black and White only with baked polyester paint finish. Baked polyester paint finish system clips are not painted on main beam or cross tee. Touch-up paint available upon request.

360° Painted Grid System RAL® 1033 with Axiom® Classic Perimeter Trim

\*\*\* Powdered-coated paint only

† Metric items available

#### **PERFORMANCE PACKAGING**

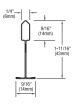
<b>Guard</b> ™ Dot leve	s represent high	Ctn.	
_	•	240	
_	-	240	
_	_	120	
		_	
_	•	240	
_	-	240	
_	_	120	
-	_	360	
_	•	240	
_	_	240	
_	_	120	
		360	

ASTM Class HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

#### **DETAILS**



360° Painted 9/16" Cross Tee and Main Beam





360° Painted 15/16" Cross Tee and Main Beam





Baked Polyester



TechLine 877 276-7876 armstrongceilings.com/suspensionsystems

#### CLEAN ROOM™ Steel/Aluminum

15/16" and 1-1/2" Exposed Tee System

30% # 91% RECYCLED CONTENT Calculate LEED contribution at armstrongceilings.com/greengenie ED ш

This suspension system with integral gasket is designed specifically for clean rooms, food processing areas, and data centers.



#### **KEY SELECTION ATTRIBUTES**

- Suitable for use in Class 5 (Class 100 clean rooms as defined by ISO Standard 14644-1 (Federal Standard 209E) when used with Clean Room™ FL, Clean Room VL, Health Zone™ Ultima®, and Health Zone™ Optima®
- · Seismic Rx® Suspension System; ICC-ES approach to installations (ESR-1308)
- · Integral gasket for better seal between panel and grid
- · Integral main beam splice for easy connections and module control
- · XL® staked-on end detail

# · Rotary-stitched for additional



**COLORS** 

White (WH)

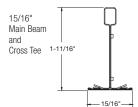
#### · 10-year limited warranty; 30-year with HumiGuard® Plus

torsion strength

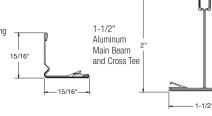
- TYPICAL APPLICATIONS · Laboratories / Clean Rooms
- · Pharmaceutical facilities / hospitals
- · Automotive and aerospace
- · Computer rooms / data centers · Food processing facilities
- · MRI suites (co-extruded aluminum only)

VISUAL	SELECTION	Aluminum – maxim	um corrosion res	sistance				PERFOR	MANCE	PACKA	GING
Face Profile	Item No.	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacin Lbs./LF	g*		Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
CLEAN F	ROOM Co-Ex	truded Steel (Gas	keted)		2 Ft.	4 Ft.	5 Ft.	Dots repr	esent high erformance.		
15/16"	ES7901	12' HD Main Beam	12" O.C.	144 x 15/16 x 1-11/16"	-	18.33	-	_	•	20	240
15/16"	ES7940	4' Cross Tee	24" O.C.	48 x 15/16 x 1-11/16"	_	16.83	_	_	_	60	240
15/16"	ES7920	2' Cross Tee	_	24 x 15/16 x 1-11/16"	60.83	_	_	_	_	60	240
15/16"		Other Sizes Main be	ams L: 36" - 144	" / Cross tees L: 6" - 144" / Rou	t spacing 3" f	rom ends, 6	" thereafter			Varies	Varie
	ES7801	12' Hemmed Angle N	Molding	144 x 15/16 x 15/16"						30	360
CLEAN F	ROOM Co-Ex	truded Aluminum	(Gasketed)								
15/16"	EA7900	12' ID Main Beam	12" O.C.	144 x 15/16 x 2"	_	12.25	-	_	_	20	240
15/16"	EA7940	4' Cross Tee	24" O.C.	48 x 15/16 x 2"	_	15.32	_	_	_	60	240
15/16"	EA7920	2' Cross Tee	_	24 x 15/16 x 2"	66.62	_	_	_	_	60	120
15/16"		Other Sizes Main be	ams L: 36" - 144'	' / Cross tees L: 6" - 144" / Rout	spacing 3" fro	om ends, 6"	thereafter			Varies	Varie
	EA7812	12' Hemmed Angle N	Molding	144 x 15/16 x 15/16"						30	360
CLEAN F	ROOM 1-1/2'	' Co-Extruded Alu	minum (Gasl	ceted)							
1-1/2"	EA7903	12' HD Main Beam	12" O.C.	144 x 1-1/2 x 2"	-	16.7	8.4	_	•	12	144
1-1/2"	EA7947	4' Cross Tee	24" O.C.	48 x 1-1/2 x 2"	-	17.66	-	_	_	36	144
1-1/2"	EA7927	2' Cross Tee	_	24 x 1-1/2 x 2"	60.55	-	_	_	-	36	72
	EA7813	12' Hemmed Angle N	Molding	144 x 15/16 x 15/16"						30	360
Accesso	ries (For a	dditional accessor	ries see Pgs.	379-380)							
_	CHDC	Clear Hold Down Clip		_	_	_	_		_	50	_
_	XTAC	Cross Tee Adapter Cl	ip	_	_	_	-	_	-	100	_
_	BERC2	Steel Beam End Reta	ning Clip	-	-	-	-	_	_	200	_
	ALBERC2	Aluminum Beam End	Potoining Clin	_	_	_	_		_	200	_

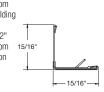




Clean Room Angle Molding for use with 15/16" Clean Room Suspension System



Clean Room Angle Molding for use with 1-1/2" Clean Room 15/16" Suspension System



#### LIGHT FIXTURES

NOTE: Specify light fixtures designed to install with 2" web height suspension systems.

Compatible Light Fixtures:

MANUFACTURER	ITEM #
Lithonia	CLRM-150 SRT-2x4_F MP4270
Philips-Guth	KLEENSEAL KRT 200
Morlite	CRGHEPA24 Series



# INTERLUDE® XL® **High Recycled Content**

9/16" Dimensional Tee System







This dimensional 9/16" suspension system offers high-recycled content for improved LEED® credits

#### **KEY SELECTION ATTRIBUTES**

- · Hot-dipped galvanized coating inhibits red rust better than electrogalvanized or painted systems
- Interlude® XL® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- · XL staked-on end detail provides secure locked connection
- · Unmitered intersections for flexibility of cross tee placement
- · Accommodates virtually any fixture, especially 1' x 4' light fixtures and air
- · 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products
- · Some items available in metric sizes
- . FastSize™ main beams and cross tees can be ordered with special sizing and rout spacing for your project needs in one carton minimum with two-week lead times

- · Blizzard White powder-coated finish coordinates with Calla®, Optima®, Ultima®, and Lyra® ceiling panels for a clean, seamless, monolithic installed visual
- · Linear lighting integration is easy with made-to-order main-beam-to-cross-tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths).

#### **COLORS**

Standard **Powder-Coated Finish** 



White

White (ZW) Items with �

VISUAL	SELECTION								PERFO	RMANCE	PACKA	GING
Face Profile	Item No. ◆	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacin Lbs./LF	g*			Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
Interlu	de® XL®				1 Ft.	2 Ft.	4 Ft.	5 Ft.	Dots rep level of p	resent high performance.		
9/16"	6100HRC�	12' ID Main Beam	6" 0.C.	144 x 9/16 x 1-3/4"	_	-	12.6	-		_	20	240
9/16"	6101HRC*	12' HD Main Beam	6" 0.C.	144 x 9/16 x 1-3/4"	-	-	16.79	_		•	20	240
9/16"	XL6180HRC*	8' Cross Tee	12" O.C.	96 x 9/16 x 1-3/4"	-	-	12.6	_		•	20	160
9/16"	XL6190HRC*	6' Cross Tee	12" O.C.	72 x 9/16 x 1-3/4"	-	-	12.6	_		•	20	120
9/16"	XL6150AHRC	►5' Cross Tee	6", 20", 30"	60 x 9/16 x 1-3/4"	-	-	_	5.8		•	60	300
9/16"	XL6140HRC*	4' Cross Tee	12" O.C.	48 x 9/16 x 1-3/4"	3.0	-	12.6	_		•	60	240
9/16"	XL6170HRC*	2.5' Cross Tee	_	30 x 9/16 x 1-3/4"	38.8	-	_	_	_	•	60	100
9/16"	XL6120HRC*	2' Cross Tee	_	24 x 9/16 x 1-3/4"	-	66.89	-	_		•	60	120
9/16"	XL6110HRC	1' Cross Tee	_	12 x 9/16 x 1-3/4"	66.89	_	_	_	_	•	120	120
9/16" <i>F</i>	s / FastSize™	Main beams L: 36	" - 144" / Cross te	ees L: 6" - 144" / Rout space	cing 3" fron	n ends, 6"	thereafter				Varies	Varies

FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.)

♣ All items available in Blizzard White powder-coated finish
 ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 6101HRC Z W - Blizzard White)

ASTM Class HD - Heavy-duty ID - Intermediate-duty LD - Light-duty



**VISUAL SELECTION** 

Item

No. ◆

6195AHRC\_ \_\*

6127AHRC \*

**XL6164AHRC**\_ \_❖ 54" Cross Tee

**XL6162HRC**\_ **.**❖ 42" Cross Tee

XL6167HRC\_ \_ ❖ 27" Cross Tee

XL6106HRC\_ \_❖ 6" Cross Tee

XL6104HRC\_ \_❖ 4" Cross Tee

Face

9/16"

9/16"

9/16"

9/16"

9/16"

9/16"

9/16"

Profile



High Performance Sustainable Ceiling Systems

Hanger

Spacing\*

Lbs./LFT

1 Ft.

2 Ft.

49.32

4 Ft.

16.79

16.79

9.2 at 4.5'

20 at 3.51

5 Ft.

Declare<sup>s™</sup>

Livina Buildina

Challenge Compliant

Dimensions

54 x 9/16 x 1-3/4"

42 x 9/16 x 1-3/4"

27 x 9/16 x 1-3/4"

6 x 9/16 x 1-3/4"

4 x 9/16 x 1-3/4"

NOTE: Additional Interlude XL items for TechZone® Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486). Available online at armstrongceilings.com/techzone

(Inches)

Rout

Spacing

126" HD Main Beam 10", 30", 50", 70", 126 x 9/16 x 1-3/4"

90", 110", 116"

120" HD Main Beam 15", 42", 48", 75", 126 x 9/16 x 1-3/4"

102", 108"

6", 27", 48"

Description

Interlude® XL® HRC items for TechZone® Ceiling Systems

Calculate LEED contribution at armstrongceilings.com/greengenie

Fire

**PERFORMANCE** 

rd™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.	<b>^</b>
ts rep	resent high			DE

**PACKAGING** 

Dot level of performance. 20 210 20 210 60 270

60

60

60

60

210

135

30

20

ASTM Class

HD - Heavy-duty ID - Intermediate ate-duty Light-duty

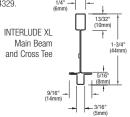
	Face Profile	Item No. ◆	Description	Length	(A) Flange	(B) Flange	(C) Reveal	(D) Reveal	Pcs./ Ctn.	LFT/ Ctn.
	Sugge	sted Wall Mold	ings and Shadow Moldings (A	dditional moldi	ng options av	ailable. See ca	talog Pgs. 370	6-378)		
	7/8"	7800HRC*	12' Hemmed Angle Molding	144"	7/8"	7/8"	-	-	30	360
iev	9/16"	7889	12' Hemmed Angle Molding	144"	9/16"	7/8"	3/8"	1/4"	30	300
	9/16"	7804HRC*	12' Hemmed Angle Molding	144"	9/16"	7/8"	-	-	30	300
	9/16"	7873*	10' Shadow Molding	120"	9/16"	15/16"	3/8"	-	30	300
	9/16"	7874*	10' Shadow Molding	120"	9/16"	15/16"	1/4"	-	30	300
nev	15/16"	7888	10' Shadow Molding	120"	15/16"	15/16"	3/8"	1/4"	30	300
	15/16"	7877***	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	-	30	300
	15/16"	7878***	10' Seismic Shadow Molding	120"	15/16"	15/16"	3/8"	_	30	300

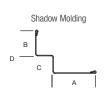
#### ACCESSORIES For accessories see pages 405-406

**DETAILS** For more information, see submittal BPCS-4329. INTERLUDE XL



Main Beam









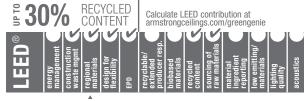
<sup>\*\*</sup> Suitable for Category D, E, F Seismic Installation with BERC2 Clip

All items available in Blizzard White powder-coated finish

When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7804 Z W - Blizzard White)

#### PRELUDE® Concealed

Tee System



LOCATION DEPENDENT

Sophisticated slotted suspension system with a narrow 1/4" reveal.



Prelude® Concealed suspension system

#### **KEY SELECTION ATTRIBUTES**

• PeakForm® profile increases strength and stability



- SuperLock<sup>™</sup> main beam clip is engineered for a strong, secure connection
- · Hot-dipped galvanized coating inhibits red rust
- 10-Year Limited Warranty; 30-Year Limited Warranty with HumiGuard® Plus products
- · Rotary-stitched for additional torsional strength and extra stability

#### **COLORS**



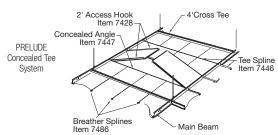
7446 7426

Unpainted

ML7343 XL7342 ML7323 XL7328 7835 7830

VISUAL	SELECTIO	N				PERFOR	MANCE	PACKA	GING
Face Profile	Item No.	Description	Dimensions (Inches)	Hanger Spacing Lbs./LF	<b>1</b> *	Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
Prelude	® Conceale	d		4 Ft.	5 Ft.				
15/16"	7301	12' HD Main Beam	144 x 15/16 x 1-11/16"	16.50	8.73	_	-	20	240
15/16"	7300	12' ID Main Beam	144 x 15/16 x 1-11/16"	12.80	6.35	_	_	20	240
15/16"	ML7343	4' Cross Tee	48 x 15/16 x 1-1/2"	9.00	-	_	-	60	240
15/16"	XL7342	4' Cross Tee	48 x 15/16 x 1-1/2"	9.00	-	_	_	60	240
15/16"	ML7323	2' Cross Tee	24 x 15/16 x 1-1/2"	38.63	-		_	60	120
15/16"	XL7328	2' Cross Tee	24 x 15/16 x 1-3/8"	38.63	-	_	_	60	120
3/4"	7446	4' Tee Spline	48 x 3/4 x 7/8"	_	-	_	-	125	500
7/8"	7426	2' Tee Spline	24 x 3/4 x 7/8"	_	-	_	_	125	250
7/16"	7447	4' Concealed Angle	48 x 7/16 x 1-1/4"	_	_	_	_	75	300
7/16"	7427	2' Concealed Angle	24 x 7/16 x 1-1/4"	_	-	_	_	150	300
Sugges	ted Molding	(Additional molding opti	ons available. See Pages 376-378)	)					
7/8"	7835	10' Channel Molding	120 x 7/8 x 1-3/4 x 9/16"	_	-		-	20	200
15/16"	7830	10' Channel Molding	120 x 15/16 x 1-15/16 x 15/16"	_	-	_	_	16	160
Access	ories								
_	7445	4' Stabilizer Bar	48"	_	-	_	_	100	400
_	7425	2' Stabilizer Bar	24"	-	_	_	-	100	200
_	7486	Breather Spline	11"	-	-	_	-	500	_
7/16"	7428	2' Access Hook	24 x 7/16 x 1-1/4"	-	_	_	_	300	300
7/16"	7418	1' Access Hook	12 x 7/16 x 1-1/4"	-	-	_	_	150	300
_	7870	Spring Border Clip	-	-	_	_	_	1,000	_

**DETAILS** For more information, see submittal BPCS-3347.





ASTM Class

HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

\* Simple Span

#### PRELUDE® ML

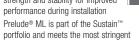
#### 15/16" Exposed Tee System

A 15/16" suspension system with hook-end details.

# Calculate LEED contribution at armstrongceilings.com/greengenie LOCATION DEPENDENT

#### **KEY SELECTION ATTRIBUTES**

• PeakForm® profile increases strength and stability for improved performance during installation





- · Hot-dipped galvanized coating inhibits red rust better than electrogalvanized or painted systems
- · Rotary-stitched during manufacture for additional torsional strength and extra stability during installation
- · Hook staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- · 10-Year Limited Warranty; 30-Year Limited Warranty with HumiGuard® Plus products
- · Main beams and cross tees can be ordered with special sizing and rout spacing for your project needs

#### **COLORS**

#### Standard











#### Blizzard White (ZW)

#### **COLOR AND FINISH SELECTION**

Prelude® ML suspension system

#### Standard

White

(WH)

















Premium







(ZW)

NOTE: Items 7809 and 7875 available in White (WH) only.
NOTE: Color chips included with samples of Armstrong® Grid. See your Armstrong Ceilings representative for sample material.

VISUAL	SELECTION					PERFOR	RMANCE	PACK/	AGING
Face Profile	Item No. ◆	Description	Dimensions (Inches)	Hanger Spacing Lbs./LFT		Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
Prelude	® ML			4 Ft.	5 Ft.				
15/16"	7301�	12' HD Main Beam	144 x 15/16 x 1-11/16"	16.73	8.73	_	-	20	240
15/16"	7300*	12' ID Main Beam	144 x 15/16 x 1-11/16"	13.50	6.35	_	_	20	240
15/16"	7302*	10' ID Main Beam	120 x 15/16 x 1-11/16"	13.50	6.35	_	-	20	200
15/16"	ML7357*	5' Cross Tee	60 x 15/16 x 1-11/16"	_	7.61	_	_	60	300
15/16"	ML7343�	4' Cross Tee	48 x 15/16 x 1-1/2"	7.80	_	_	_	60	240
15/16"	ML7323�	2' Cross Tee	24 x 15/16 x 1-1/2"	38.63	_	_	-	60	120
Sugges	ted Molding (Add	ditional molding options availa	able. See pages 376-378)						
7/8"	7800�	12' Hemmed Angle Molding	144 x 7/8 x 7/8"	-	-	_	-	30	360
15/16"	7809	12' Hemmed Angle Molding	144 x 15/16 x 15/16"	-	_	_	-	30	360
9/16"	7835	10' Hemmed Channel Molding	120 x 7/8 x 1-3/4 x 9/16"	-	_	_	-	20	200
* Simple	Snan							ASTM Class	

- All items available in Blizzard White powder-coated finish
- ◆ When specifying or ordering, add 2-letter color suffix to item number (ex. 7301 <u>B</u> <u>L</u>)

HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

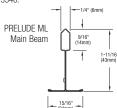
#### DETAILS

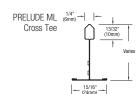
For more information, see submittal BPCS-3346.



PRELUDE ML Main Beam







#### PRELUDE® Plus XL® Aluminum PRELUDE® Plus XL® Stainless Steel

**Environmental Tee System** 



These steel and aluminum 15/16" suspension systems are designed for severe environmental performance.



#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves time and money; an ICC-ES approach to installations (ESR-1308)
- · Systems conform to ASTM C635 for severe environmental performance
- 10-Year Limited Warranty; 30-Year Limited Warranty with HumiGuard® Plus or HumiGuard® Max products
- · Special sizing and rout spacing available
- · Rotary-stitched for torsional strength and stability
- XL® staked-on end detail provides secure locked connection

#### PRELUDE® Plus XL® Aluminum

· Maximum moisture resistance

#### PRELUDE® Plus XL® Stainless Steel

- Type 304, non-magnetic, stainless steel; withstands corrosive agents
- · Peel-off protective film on exposed surfaces prevents scuffing and marking

#### TYPICAL APPLICATIONS

#### PRELUDE Plus XL Aluminum

- · Indoor swimming pools with proper ventilation
- · Non-magnetic areas/MRI suites

#### PRELUDE Plus XL Stainless Steel

· Food preparation, storage, manufacturing, and packaging areas

\_\_\_\_

- · Laboratories
- · Chemical processing

#### **COLORS**

#### Aluminum



Aluminum (WA)



Steel



Steel (SS)

VISUAL	SELECTION						PERF0F	RMANCE	PACKA	GING
Face Profile	Item No. ◆	Description	Dimensions (Inches)	Hanger Spacing Lbs./LF	g*		Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
Prelude®	Plus® XL Alu	minum		2 Ft.	3 Ft.	4 Ft.	Dots level o	represent high of performance.		
15/16"	AL7200	12' LD Main Beam	144 x 15/16 x 1-1/2"	-	13.47	6.33		_	20	240
15/16"	XLAL7240	4' Cross Tee	48 x 15/16 x 1-1/2"	-	_	6.33	_	_	60	240
15/16"	XLAL7220	2' Cross Tee	24 x 15/16 x 1-1/2"	44.45	_	_	_	_	60	120
15/16" <b>Molding</b>	Other Sizes M	ain beams L: 36" - 144" / Cross to	ees L: 6" - 144" / Rout spacir	ng 3" from er	nds, 6" there	after			Varies	Varies
7/8"	AL7801	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	_	-	_	_	_	30	300
Prelude I	Plus XL Stainl	ess Steel								
15/16"	SS7200	12' ID Main Beam	144 x 15/16 x 1-1/2"	-	-	12.23	_	_	20	240
15/16"	XLSS7240	4' Cross Tee	48 x 15/16 x 1-1/2"	-	_	10.4	_	_	60	240
15/16"	XLSS7220	2' Cross Tee	24 x 15/16 x 1-1/2"	61.66	_	_	_	-	60	120
15/16"	Other Sizes M	ain beams L: 36" - 144" / Cross to	ees L: 6" - 144" / Rout spacir	ng 3" from er	nds, 6" there	after			Varies	Varies
Molding										
7/8"	SS7801	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	_	_	_	_	_	30	300
Accessoi	ries									
	ALBERC2	Aluminum Beam End Retaining	Clip	_	_	_		_	200	_
* Simple S			( AL 7000N A)						ASTM Class	-duty

◆ Add 2-letter color suffix to item number when specifying or ordering (ex. AL7200N A)

HD - Heavy-duty ID - Intermediate-duty LD - Light-duty

DETAILS For more information, see submittal BPCS-3155 (Prelude Plus XL Aluminum) or BPCS-3154 (Prelude Plus XL Stainless Steel).



PRELUDE Plus XL Aluminum Cross Tee

PRELUDE Plus XL Stainless Steel Cross Tee

TechLine 877 276-7876











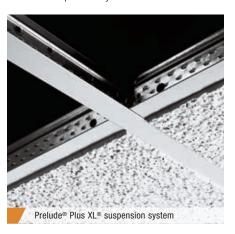
### PRELUDE® Plus XL® Fire Guard™ PRELUDE® XL® for Exterior Applications

**Exposed Tee System** 



LOCATION DEPENDENT

A 15/16" suspension system for severe environmental performance.



#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves time and money; ICC-ES approach to installations (ESR-1308)
- Systems conform to ASTM C635 for Severe Environmental Performance
- · Rotary-stitched during manufacture for torsional strength and stability
- 10-Year Limited Warranty; 30-Year Limited Warranty with HumiGuard® Plus or HumiGuard® Max products
- · XL® staked-on end detail provides secure locked connection
- PeakForm® profile increases strength and stability
- . SuperLock™ main beam clip engineered for secure connection and fast, accurate alianment

#### PRELUDE® XL® For Exterior Applications

- · Minimum G90 hot-dipped galvanized steel with prefinished G90 steel capping
- · Suitable for wind uplift applications with appropriate bracing

#### PRELUDE® Plus XL® Fire Guard™

· Systems are minimum G60 hot-dipped galvanized steel with prefinished aluminum capping for enhanced corrosion resistance

#### TYPICAL APPLICATIONS

#### PRELUDE Plus XL Fire Guard

- · Locker rooms
- · Food preparation areas

#### PRELUDE XL For **Exterior Applications**

- · Non-exposed exterior corridors
- · Drive-thru areas
- · Indoor parking garages

Fire Guar

#### **COLORS**

#### Fire Guard™





#### Aluminum (WA) Exterior



(WH)

#### VISUAL SELECTION

Face Profile	ltem No. ◆	Description	Dimensions (Inches)	Spacin	Hanger Spacing* Lbs./LFT		
Prelude®	Plus XL® Fire	Guard™ (Red Numbers a	re Fire Guard Items)	2 Ft.	4 Ft.	5 Ft.	
15/16"	HD8201	12' HD Main Beam	144 x 15/16 x 1-11/16"	12.75	16.73	_	
15/16"	XL8240	4' Cross Tee	48 x 15/16 x 1-1/2"	12.75	-	-	
15/16"	XL8223	2' Cross Tee	24 x 15/16 x 1-1/2"	38.63	-	-	
Molding							
7/8"	HD7801	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	_	_	_	
	XL for Exterior 7301G90A	Applications 12' HD Main Beam	144 x 15/16 x 1-11/16"	_	16.50	6.92	
Prelude > 15/16" 15/16"		••	144 x 15/16 x 1-11/16" 48 x 15/16 x 1-11/16"		16.50 16.59	6.92	
15/16" 15/16"	7301G90A	12' HD Main Beam		- - -			
15/16" 15/16" 15/16"	7301G90A XL7341G90A	12' HD Main Beam 4' Cross Tee	48 x 15/16 x 1-11/16"	- - -	16.59	-	
15/16" 15/16" 15/16" <b>Molding</b>	7301G90A XL7341G90A	12' HD Main Beam 4' Cross Tee	48 x 15/16 x 1-11/16"	- - -	16.59	-	
15/16" 15/16" 15/16" <b>Molding</b> 7/8"	7301G90A XL7341G90A XL7321G90A HD7801G90	12' HD Main Beam 4' Cross Tee 2' Cross Tee	48 x 15/16 x 1-11/16" 24 x 15/16 x 1-11/16"	- - -	16.59	_	
15/16"	7301G90A XL7341G90A XL7321G90A HD7801G90	12' HD Main Beam 4' Cross Tee 2' Cross Tee	48 x 15/16 x 1-11/16" 24 x 15/16 x 1-11/16"		16.59	_	

#### **PERFORMANCE PACKAGING**

'd	Seismic Category 	Pcs./ Ctn.	LFT/ Ctn.	
Dots re evel of	epresent high performance.			
	•	20	240	
	•	60	240	
	•	60	120	
	-	30	300	
	•	20	240	
	•	60	240	
	•	60	120	
	-	30	300	
	_	250	_	
	_	1000	_	

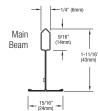
ASTM Class

DETAILS For more information on Prelude Plus XL Fire Guard, see submittal BPCS-3156. Prelude XL for exterior applications and wind uplift chart see BPCS-3384.



Main Beam





<sup>◆</sup> Add 2-letter color suffix to item number when specifying or ordering (ex. HD8201W A)



This hot-dipped galvanized steel 15/16" suspension system offers high recycled content for improved LEED® credits.

#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves time and money; Armstrong Ceilings offers an ICC-ES approach to installations (ESR-1308)
- portfolio and meets the most stringent sustainability compliance standards
- PeakForm® profile increases strength and stability for improved performance during installation
- . SuperLock™ main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove/relocate
- · Hot-dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- 10-Year Limited System Warranty: 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products
- FastSize™ main beams and cross tees can be ordered with special sizing and rout spacing for your project needs in one carton minimum with two-week lead times

- Available with TrioGuard<sup>™</sup> coating that resists dirt, bacteria, mold, mildew, and color fading
- · XL® staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- Fire Guard<sup>™</sup> options offer UL design fire-rated performance
- · Blizzard White powder-coated finish coordinates with Calla®, Optima®, Ultima®, and Lyra® ceiling panels for a clean, seamless, monolithic installed visual.
- · Linear lighting integration is easy with made-to-order main-beam-to-cross-tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths).

#### COLORS

#### Standard



























Silver Satin

Powder-Coated Finish





### Premium















◆ Capping only NOTE: Items 8300, XL8340, XL8323 available in Black (BL) or White (WH) only

#### **VISUAL SELECTION**

Face Profile	Item No. ◆	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT		Gua
Prelude	® XL® (Red No	umbers are Fire G	uard™ Items)		4 Ft.	5 Ft.	D lev
15/16"	7301† †† 7301HRC 8301	12' HD Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	16.73	8.73	
15/16"	7300 <b>*</b> †† 8300†	12' ID Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	13.5	6.35	-
15/16"	7305�	140" HD Main Beam	10" O.C.	140 x 15/16 x 1-11/16"	10.73	8.73	
15/16"	7306�	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	132 x 15/16 x 1-11/16"	16.73	8.73	_
15/16"	7307�	126" HD Main Beam	10", 30", 50", 70", 90", 110", 116"	126 x 15/16 x 1-11/16"	-	-	_
15/16"	7302�	10' ID Main Beam	6" O.C.	120 x 15/16 x 1-11/16"	13.5	6.35	
15/16"	XL7380*	8' Cross Tee	12" O.C.	96 x 15/16 x 1-11/16"	12.12**	_	
15/16"	XL7390*	6' Cross Tee	12" O.C.	72 x 15/16 x 1-11/16"	12.24*	_	_

- \* Simple Span \*\* Hanger Wire Support Mid-Span
- † Items available in Standard, Premium, and Blizzard White powder-coated finish †† Items available with TrioGuard™ coating in White (WH3G) ♦ Items available in Blizzard White powder-coated finish

- When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA - Haze)





#### PERFORMANCE **PACKAGING**

_	Fire Guard™	Seismic Category 	Pcs./ Ctn.	LFT/ Ctn.
	Dots re level of	present high performance.		
	_	•	20	240
	-	•	20	240
	•	•	20	240
	_	_	20	240
	•	_	20	240
	_	•	20	233
-	_	•	20	220
	_	•	20	210
	-	_	20	200
	_	•	20	160
	_	•	20	120
-				

ASTM Class

Available online at armstrongceilings.com/techzone

NOTE: Additional Prelude XL items for TechZone®

HD - Heavy-duty ID - Intermediate-duty Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486). LD - Light-duty



**Exposed Tee System** 

Declare<sup>sм</sup> Living Building Challenge Compliant

High Performance Sustainable Ceiling Systems

Calculate LEED contribution at

**PACKAGING** 

**PERFORMANCE** 

VISUAL SELECTION

Face Profile	Item No. ◆	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LTF		Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
Prelude	® XL® (Red Nur	mbers are Fire	Guard™ Items)		4 Ft.	5 Ft.		present high performance.		
15/16"	XL7357�	5' Cross Tee	6", 12", 24", 30", 36", 48", 54"	60 x 15/16 x 1-11/16"	_	7.61	_	•	60	300
15/16"	XL7358*	5' Cross Tee	6", 20", 30", 40", 50"	60 x 15/16 x 1-11/16"	_	7.61	_	•	60	300
15/16"	XL7341* †† XL7341HRC XL8341	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	16.89	-	-	•	60 60 60	240 240 240
15/16"	XL7340 <b>*</b> XL8340†	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	12.25	-	•	•	60 60	240 240
15/16"	XL7342† ††	4' Cross Tee	12" O.C.	48 x 15/16 x 1-1/2"	7.8	_	-	•	60	240
15/16"	XL7348*	4' Cross Tee	12" O.C.	48 x 15/16 x 1-3/8"	6.78	_	_	•	60	240
15/16"	XL7330†	3' Cross Tee	_	36 x 15/16 x 1-11/16"	20.3 at 3'	-	_	•	60	180
15/16"	XL7378�	30" Cross Tee	_	30 x 15/16 x 1-3/8"	16.54 at 2.5'	-	-	•	60	150
15/16"	XL7328† †† XL8323†	2' Cross Tee	-	24 x 15/16 x 1-3/8"	36.0 at 2'	-	•	•	60 60	120 120
15/16"	XL8320HRC XL8320 ††	2' Cross Tee	-	24 x 15/16 x 1-11/16"	61.33 at 2'	-	•	•	60 60	120 120
15/16"	XL7368*	20" Cross Tee	_	20 x 15/16 x 1-3/8"	36.0 at 1.67'	_	_	•	60	100
15/16"	XL7398*	18" Cross Tee	_	18 x 15/16 x 1-3/8"	_	_	_	•	60	90
15/16"	XL7318�	1' Cross Tee	_	12 x 15/16 x 1-3/8"	36.0 at 1'	_	_	•	120	120
15/16"	XL7304*	4" Cross Tee	_	4 x 15/16 x 1-3/8"	_	_	_	•	60	20
15/16" <b>F</b>	FastSize™	Main beams L: 36"	- 144" / Cross tees L: 3" -	144" / Route spacing 3" from	ends, 6" thereafter				Varies	Varies

		FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.				
Item No. ◆	Description	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal
Volding						
7800† †† 7800HRC	12' Hemmed Angle Molding	144"	7/8"	7/8"	_	_
7808� ††	10' Hemmed Angle Molding	120"	2"	2"	_	_
780812�	12' Hemmed Angle Molding	144"	2"	2"	_	_
7807	10 ' Hemmed Angle Molding	120"	2"	1"	_	_
7875�	10' Shadow Molding	120"	3/4"	15/16"	1/2"	_
7877****	10' Shadow Molding	120"	15/16"	15/16"	1/4"	_
7878�***	10' Shadow Molding	120"	15/16"	15/16"	3/8"	_
7897�***	10' Shadow Molding	120"	15/16"	15/16"	1/2"	_
7888	10' Shadow Molding	120"	9/16"	15/16"	3/8"	1/4"
7850�	10' Hemmed Angle Molding	120"	1-1/8"	7/8"	_	_
7851�	12' Hemmed Angle Molding	144"	1-1/8"	7/8"	_	_

Simple Span \*\* Hanger Wire Support Mid-Span \*\*\* Suitable for Items available in Standard, Premium, and Blizzard White powder-coated finish \*\*\* Suitable for IBC Category D,E,F installations using Armstrong® Seismic Rx® suspension system and BERC2 Clip

STAC - Single Tee Adapter Clip -

non-seismic and seismic C and D,

E, F off-module main beam to cross

Used to create code compliant

†† Items available with TrioGuard™ coating in White (WH3G)

thems available in Blizzard White powder-coated finish

When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7800HA – Haze)

GCWA - Grip Clip Wall Attachment Joins main beam or cross tee to wall molding via locking barbs without pop rivets or screws.

GCWA - 250 pcs FZGCWA - 50 pcs

LFT/

Ctn.

360

100

120

100

300

300

300

300

300

300

360

Intermediate-duty

Pcs./ Ctn.

30

10

10

10

30

30

30

30

30

30

30

ASTM Class HD - Heavy-duty ID - Intermediate

LD - Light-duty

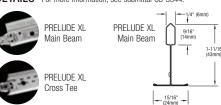
#### **ACCESSORIES**

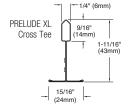
BERC2 - 2" Beam End Retaining Clip - Allows you to create a code-compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars. ALBERC2 (Aluminum)



BERC2 (Steel) - 200 pcs ALBERC2 (Aluminum) - 200 pcs FZBERC2 (Steel) - 50 pcs FZALBERC2 (Aluminum) - 50 pcs

**DETAILS** For more information, see submittal CS-3344.





tee connections.

**STAC** - 120 pcs

FZSTAC - 50 pcs







#### PRELUDE® XL MAX®

#### **Exposed Tee System**



This suspension system is designed to offer maximum air flow management, load-carrying capacity, and adaptability in data center applications.\*

#### **KEY SELECTION ATTRIBUTES**

#### Prelude® XL Max® 15/16" Suspension System

- PeakForm® profile increases strength and stability for improved performance during installation
- · Supports point loads up to 300 lbs. using 3/8" threaded rod and integrated hanging clips to provide:
  - Flexible and reconfigurable overhead cable tray and electrical distribution without a separate strut channel system
  - Eliminates unsightly threaded rod penetrations through the ceiling plane
  - Reduced ceiling penetrations help minimize unwanted air infiltration
- · Suspension system meets ASTM C635, ASTM C636, ASTM E580 with Seismic D, E, F available
- Custom colors available to coordinate with Ultima® Create!™ ceiling panels

\*\* Data Center Systems are also addressed on Pgs. 347-348

(Integrated Ceiling Solutions - Integrated Services)

· 30-Year Limited System Warranty

#### TYPICAL APPLICATIONS

Data Centers

COLORS Due to printing limitations, shade may vary from actual product.





(WH)

White is standard color for main beams and cross tees. All clips are unfinished

Custom colors and finishes are available for main beams, cross tees, and load connector clips to coordinate with Create!™ ceiling panels and custom project colors.

#### VISUAL SELECTION

Item No.	Face Profile	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT
Prelude® XL Ma	ax®			4 Ft.
730145	15/16"	12' HD Main Beam	144 x 15/16 x 2-7/16"	40.17
XL7345	15/16"	4' Cross Tee	48 x 15/16 x 2-7/16"	40.17
XL7325	15/16"	2' Cross Tee	24 x 15/16 x 2-7/16"	-

SWA9878HRC	
JWAJU/UIIIU	

Molding

#### DEBEUBMANCE

Fire	Seismic Category
Guard™	
Dots repr level of p	esent high erformance.
-	•
-	•
_	•

Pcs./

Ctn

**PACKAGING** 

10	120	
30	120	
30	120	
30	60	

LFT/

Ctn

#### 12 144

ASTM Class HD - Heavy-duty ID - Intermediate-duty LD - Light-duty

#### **ACCESSORIES**

IHC - Intersection Hanging Clip - Used to increase main beam to cross tee connection strength and carry the ceiling system with 3/8" threaded rod from structure. Steel rivets not included

7/8"

IHC - 160 pcs FZIHC - 50 pcs



**XTAC** - 100 pcs FZXTAC - 50 pcs



12' Structural Wall Angle

PMLC - Prelude XL Max Load Connector – Used to support bus bars, cable trays, and other components with 3/8" threaded rod along the suspension system face.

144 x 7/8 x 15/16"

PMLC - 100 pcsFZPMLC - 50 pcs



IJC - Intersection Joint Clip -Used at all cross tee-to-cross tee or main beam-to-cross tee connections not using an IHC Clip. (Machine screws included)

IJC - 250 pcs FZIJC - 50 pcs



SHC - 144 ncs FZSHC - 50 pcs

SHC - Supplemental

Hanging Clip – Used to

carry the ceiling system with

3/8" threaded rod from any

when plenum obstructions

prevent use of the IHC Clip.

(Machine screws included)

location along the main beam



TLMBS - Top Lock Main Beam Splice Clip -Locks two main beams together for a secure

10 pcs (included with item 730145 Main Beam)

FZTLMBS - 50 pcs



PMHDC - Prelude XL Max Hold Down Clip -Attaches to the top bulb of the Prelude XL Max suspension system to hold ceiling panels in place; helps to prevent ceiling panel movement.

**PMHDC** - 100 pcs FZPMHDC - 50 pcs

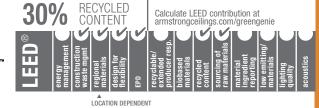




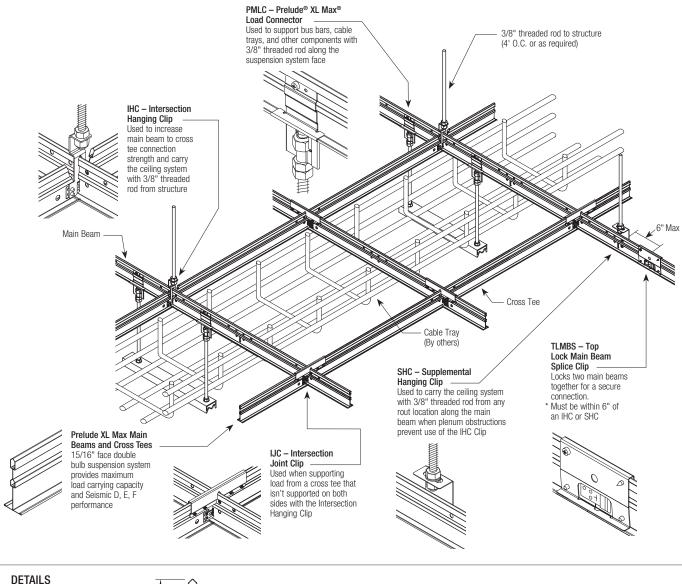
<sup>\*</sup> Simple Span - Uniform Load

# **Exposed Tee System**

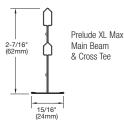
Declare<sup>s™</sup> Livina Buildina Challenge Compliant High Performance Sustainable Ceiling Systems



#### PRELUDE® XL MAX® INSTALLATION OVERVIEW







#### PHYSICAL DATA

Hot-dipped galvanized steel

Surface Finish

Baked polyester paint or powder coated

Face Dimension 15/16"

Profile

Exposed tee

Cross Tee/Main Beam Interface

Main Beam: Staked-on clip Cross Tee: Staked-on clip

**Duty Classification** Heavy-duty



SUSPENSION SYSTEMS

# SILHOUETTE® XL® 1/4" Reveal

Slotted Tee System

Declare

Living Building

Challenge Compliant

SUSTAIN<sup>®</sup>
High Performance
Sustainable
Ceiling Systems



Calculate LEED contribution at armstrongceilings.com/greengenie

producer resp.

biobased
materials
recycled
content
recycled
content
material
ingredient

LOCATION DEPENDENT

10-YEAR REPLACEMENT AVAILABILITY

Powder

Coated

Sophisticated slotted 9/16" suspension system with a narrow 1/4" reveal.



#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves time and money
- Part of Sustain™ portfolio; meets most stringent sustainability compliance standards today
- Hot-dipped galvanized coating inhibits red rusting
- · Rotary-stitched for torsional strength
- · XL® staked-on end detail
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with **HumiGuard® Plus** products
- FastSize™ items can be ordered with special sizing and rout spacing in one carton minimum with two-week lead times
- Blizzard White powder-coated finish coordinates with Calla®, Optima®, Ultima®, and Lyra® ceiling panels

Standard Finish

**PERFORMANCE** 

Finish



White (WH)

Blizzard White (ZW) Items with �

**PACKAGING** 

#### VISUAL SELECTION

VIOUAL	OUAL DELECTION									I AUIMAIII	
Face Profile	Item No. ◆	Description	Rout Spacing	Notching	Dimensions (Inches)	Hanger Spacing* Lbs./LFT		Fire Guard™	Seismic Category		LFT/ Ctn.
Silhoue	tte® XL® – 1.	/4" Reveal				4 Ft.	5 Ft.		resent high performance.		
9/16"	7601�	12' HD Main Beam - Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	16.35	7.80	_	•	20	240
9/16"	7612�	12' HD Main Beam – Unnotched	_		144 x 9/16 x 1-3/4"	16.35	7.80	_	•	20	240
9/16"	7600�	12' ID Main Beam - Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	240
9/16"	7602�	10' ID Main Beam - Notched 24" O.C.	24" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	200
9/16"	7603�	12' ID Main Beam - Notched 48" O.C.	48" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	240
9/16"	7606*	10' ID Main Beam - Notched 30" O.C.	30" O.C		120 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	200
9/16"	XL7680*	8' Cross Tee - Unnotched	_		96 x 9/16 x 1-3/4"	12.59	_	_	•	20	160
9/16"	XL7690*	6' Cross Tee - Unnotched	_		72 x 9/16 x 1-3/4"	12.59	-	_	•	20	120
9/16"	XL7650�	5' Cross Tee – Unnotched	_		60 x 9/16 x 1-3/4"	_	6.09	_	•	30	150
9/16"	XL7655*	5' Cross Tee - Center-notched, both sides	_		60 x 9/16 x 1-3/4"	_	5.71	_	•	30	150
9/16"	XL7654�	5' Cross Tee - Notched, both sides at 20", 40"	' _		60 x 9/16 x 1-3/4"	_	5.71	_	•	30	150
9/16"	XL7651*	5' Cross Tee - Notched, one side at 20", 40"	_		60 x 9/16 x 1-3/4"	_	5.71	_	•	30	150
9/16"	XL7640*	4' Cross Tee - Unnotched	_		48 x 9/16 x 1-3/4"	13.53	_	_	•	60	240
9/16"	XL7645*	4' Cross Tee - Center-notched, both sides	_		48 x 9/16 x 1-3/4"	12.85	_	_	•	60	240
9/16"	XL7646*	4' Cross Tee - Center-notched, one side	_		48 x 9/16 x 1-3/4"	13.21	_	_	•	60	240
9/16"	XL7670*	30" Cross Tee – Unnotched	_		30 x 9/16 x 1-3/4"	39.86 at 2.5	_	_	•	60	150
9/16"	XL7620*	2' Cross Tee - Unnotched	_		24 x 9/16 x 1-3/4"	69.69	71.66 at 2'	_	•	60	120
9/16"	XL7610*	1' Cross Tee - Unnotched	_		12 x 9/16 x 1-3/4"	69.69	71.66	_	•	120	120
9/16"	XL7606*	6" Cross Tee – Unnotched	_		6 x 9/16 x 1-3/4"	_	_	_	•	60	20
9/16"	XL7604*	4" Cross Tee – Unnotched	_		4 x 9/16 x 1-3/4"	_	_	_	•	60	20
9/16" <i>FS</i>	<b>y</b> FastSize™	Main beams L: 36" - 144" / Cross tees L: 6"	- 144" / Rou	ıt spacing 3"	from ends, 6" thereafte	er				Varies	Varies

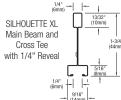
FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.)

Item No.	Description	Length	(A) Flange	(B) Height	(C) Reveal	Pcs./ Ctn.	LFT/ Ctn.
Suggested Wal	Moldings and Shadow Moldings (A	dditional molding (	options available.	See catalog pgs. 3	376-378)		
7804�	12' Hemmed Angle Molding	144"	9/16"	7/8"	_	30	360
7873�	10' Shadow Molding	120"	9/16"	15/16"	3/8"	30	300
7877�	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	30	300
* Simple Span • When specifying	** Suitable for Category D, E, F Seismic Installa or ordering items with a color or finish, add the two-le			ble in Blizzard White powd <u>ZW</u> – Blizzard White)	er-coated finish	ASTM Class HD - Heavy-duty	ID - Intermediate-duty LD - Light-duty

**DETAILS** For more information, see submittal BPCS-3157.



SILHOUETTE XL Main Beam



NOTE: Additional Silhouette 1/4" Reveal items for TechZone® Integrated Ceiling System are listed in the TechZone Technical Guide (BPCS-4486). Available online at armstrongceilings.com/techzone

ACCESSORIES For accessories see pages 405-406



SILHOUETTE XL Cross Tee



LEED® is a registered trademark of the U.S. Green Building Council Declare\*\* is a service mark of The International Living Future Institute



# SILHOUETTE® XL® 1/8" Reveal

Slotted Tee System

Declare<sup>sм</sup> Living Building Challenge Compliant High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT

Sophisticated slotted 9/16" suspension system with a slim 1/8" reveal.

# Silhouette® XL® suspension system (1/8" reveal)

#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves
- Part of Sustain  $\ensuremath{^{\text{\tiny TM}}}$  portfolio and meets the most stringent sustainability compliance
- · Hot-dipped galvanized coating inhibits red rusting
- · Rotary-stitched for additional torsional strength and stability
- · XL® staked-on end detail

- · 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products
- FastSize<sup>™</sup> items can be ordered with special sizing and rout spacing in one carton minimum with two-week lead times
- · Blizzard White powder-coated finish coordinates with Calla®, Optima®, Ultima®, and Lyra® ceiling panels

#### **COLORS**

Standard Finish





Powder

Coated Finish

White (WH)

Blizzard White (ZW) Items with �

VISUAL	SELE	CTI	N٥

VISUA	AL SELECTION		PERFORMANCE		PACKAGING						
Face Profile	Item No. ◆	Description	Rout Spacing	Notching	Dimensions (Inches)	Hanger Spacing Lbs./LF	g <b>*</b>	Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
Silhouette® XL® - 1/8" Reveal 4 Ft. 5 Ft.									present high performance.		
9/16"	76018�	12' HD Main Beam – Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	16.35	7.80	_	•	20	240
9/16"	76128�	12' HD Main Beam – Unnotched	-		144 x 9/16 x 1-3/4"	16.35	7.80	_	•	20	240
9/16"	76008*	12' ID Main Beam – Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	240
9/16"	76028�	10' ID Main Beam – Notched 24" O.C.	24" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61	_	-	20	200
9/16"	76038*	12' ID Main Beam – Notched 48" O.C.	48" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	240
9/16"	76068*	10' ID Main Beam – Notched 30" O.C.	30" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61	_	_	20	200
9/16"	XL76808*	8' Cross Tee – Unnotched	-		96 x 9/16 x 1-3/4"	12.59	-	_	•	20	160
9/16"	XL76908�	6' Cross Tee – Unnotched	_		72 x 9/16 x 1-3/4"	12.59	-	_	•	20	120
9/16"	XL76508�	5' Cross Tee – Unnotched	-		60 x 9/16 x 1-3/4"	_	6.09	_	•	30	150
9/16"	XL76558*	5' Cross Tee – Center-notched, both sides	-		60 x 9/16 x 1-3/4"	-	5.71	_	•	30	150
9/16"	XL76408�	4' Cross Tee – Unnotched	_		48 x 9/16 x 1-3/4"	14.11	-	_	•	60	240
9/16"	XL76458�	4' Cross Tee – Center-notched, both sides	-		48 x 9/16 x 1-3/4"	12.60	-	_	•	60	240
9/16"	XL76468*	4' Cross Tee — Center-notched, one side	_		48 x 9/16 x 1-3/4"	13.01	_	_	•	60	240
9/16"	XL76708�	30" Cross Tee – Unnotched	-		30 x 9/16 x 1-3/4"	47.76	_	_	•	60	150
9/16"	XL76208*	2' Cross Tee – Unnotched	_		24 x 9/16 x 1-3/4"	69.69	_	_	•	60	120
9/16"	XL76108�	1' Cross Tee – Unnotched	_		12 x 9/16 x 1-3/4"	69.69	-	_	•	120	120
9/16"	XL76048�	4" Cross Tee – Unnotched	_		4 x 9/16 x 1-3/4"	_	-	_	•	60	20
9/16"	FS FastSize™	Main beams L: 36" - 144" / Cross tees L:	6" - 144" /	Rout spacin	g 3" from ends, 6" there	after				Varies	Varie

FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 carton min.)

Item No.	Description	Length	(A) Flange	(B) Height	(C) Reveal	Pcs./ Ctn.	LFT/ Ctn.
Suggested Wal	ll Moldings and Shadow Mold	lings (Additional mol	ding options av	vailable. See catal	og pgs. 376-378)		
7804�	12' Hemmed Angle Molding	144"	9/16"	7/8"	_	30	360
7873�	10' Shadow Molding	120"	9/16"	15/16"	3/8"	30	300
7877�	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	30	300
* Simple Span • When specifying of	** Suitable for Category D, E, F Seism or ordering items with a color or finish, add			ms available in Blizzard Wh (e.g., 7804 <u>ZW</u> – Blizzard W		ASTM Class HD - Heavy-duty	ID - Intermediate-duty LD - Light-duty

**DETAILS** For more information, see submittal BPCS-3078.

**ACCESSORIES** For accessories see pages 405-406



SILHOUETTE XL Cross Tee





# SINGLESPAN™

#### **Acoustical Corridor Suspension System**





Reduces or eliminates hanger wires for faster, easier installation in crowded plenum spaces

#### **KEY SELECTION ATTRIBUTES**

- SingleSpan<sup>™</sup> system allows you to reduce or eliminate hanger wires in acoustical corridor installations
- PeakForm® Plus profile adds additional strength and support for longer spans
- · Hot-dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- · 10-Year Limited Warranty; 30-Year Limited warranty when used with HumiGuard® Plus products
- · All components are manufactured from High Recycled Content steel
- · High Recycled Content grid can be used with Ultima® HRC, Cirrus® HRC, or Dune™ HRC ceiling panels to create a sustainable ceiling system
- · Rotary-stitched during manufacture for additional torsional strength and extra stability during installation; maintains size and shape of reveal when cutting perimeter tees

#### WHY USE THE SINGLESPAN SUSPENSION SYSTEM?

- · Reduces or eliminates hanger wires perfect for healthcare/education spaces with crowded plenums
- · Faster installation helps keep large projects on schedule
- Compatible with all Armstrong® heavy-duty suspension main beams using StrongBack™ Support Hangers
- Seismically tested/approved suspension installation configuration (IAPMO certified, Evaluation Report #0244)
- · Provides improved access to utilities in the plenum post-installation

#### SEISMIC INSTALLATIONS

- The Lateral Support Bar adds seismic performance to the SingleSpan system and functions as:
  - A stabilizer bar
  - Perimeter support wire
  - 2" Wall molding
  - Lateral bracing



StrongBack™ support pieces to them.

Prelude® PeakForm® Plus 15/16" main beams with

double bulb construction provide heavy-duty strength

and support for maximum load carrying performance.

For 9/16" applications, add SingleSpan support system

to any Armstrong® heavy-duty main beam by attaching



Structural wall angle maximizes the load carrying performance of the SingleSpan system and allows you to reduce or eliminate hanger wires.





# TYPICAL APPLICATIONS

Corridors in:

- · Healthcare
- Offices
- Education

#### **COLOR**

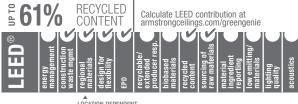


White (WH)

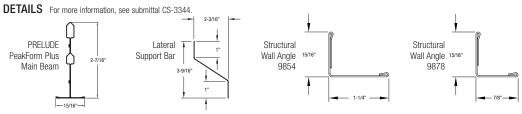


# $\textbf{SINGLESPAN}^{\text{\tiny{TM}}}$

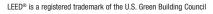
## **Acoustical Corridor Suspension System**



												LOCATION D			
VISUAL S	ELECTION	<u> </u>											PERFORMANCE	PACI	KAGIN
Face Profile	Item No.	Description	Dimension (Inches)	s	Hange Spaci Lbs./L	ng			Main Beam O.C. Spacing	Maxin	langer Spacing – Maximum Load in bs./SF		Seismic Category 	Pcs./ Ctn.	LFT/ Ctn.
SingleSpa	ın™ Prelud	e® Main Beams w	ith PeakFor	m® Plus	2 Ft.	4 Ft.	5 Ft.	6 Ft.		4 Ft.	5 Ft.	6 Ft.	Dots represent high level of performance.		
15/16"	730144HRC	144" Main Beam	144 x 15/16	x 2.44"	-	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2	•	10	120
15/16"	730102HRC	102" Main Beam	102 x 15/16	x 2.44"	-	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2	•	10	85
15/16" StrongBa		98" Main Beam	98 x 15/16 )		– (usad i	41.1	18.6	12.8	24" 48" th StrongB		4.65*		•	10	81.6
Prelude® 15/16"	7301	12' HD Main Beam	144 x 15/16	•		-		14.42		-	13.5 6.75*	7.21	•	20	240
Suprafine® 9/16"	7501	12' HD Main Beam	144 x 9/16 x	x 1-11/16"	-	-	19.73	13.66	24" 48"	-	11.9 5.95*	6.85 3.42	•	20	240
Silhouette® 9/16"		HD Main Beam 1/4" rev HD Main Beam 1/8" rev			-	-	18.4	14.78	24" 48"	_	13.05 6.52*		•	20 20	240 240
Interlude® 9/16"	6101	12' HD Main Beam	144 x 9/16 x	( 1-3/4"	-	-	17.46	12.33	24" 48"	-	12.5 6.12*	7.25 3.62	•	20	240
StrongBa	k Support	Hangers (use in o	ombination	with 9/1	3" Hea	vy-du	ty Ma	in Bea	ms)						
		StrongBack Support Hanger	144 x 2 x 2"		-	-	-	-	_	-	-		_	200	-
		oss tees available.													
Prelude® XL® 15/16"		4' Cross Tee	48 x 15/16 >		-	16.59		_	_	_	_	_	•	60	240
		2' Cross Tee	24 x 15/16 >		40.45	-	_		_		_	_	•	60	120
Suprafine XL 9/16"		4' Cross Tee	48 x 9/16 x		-	16.00			_	_	_		•	60	240
		2' Cross Tee	24 x 9/16 x		51.83		_	_	_	_	_		•	60	120
Silhouette XL 1/4" reveal		4' Cross Tee (Center- notched, both sides)	48 x 9/16 x	1-3/4"	_	12.00	_	_	_		_	_	•	60	240
9/16"	XL7640	4' Cross Tee (Unnotched	48 x 9/16 x	1-3/4"	_	13.53	-	_	-	_	_	_	•	60	240
Silhouette XL 1/8" reveal		4' Cross Tee (Center- notched, one side)	48 x 9/16 x	1-3/4"	-	12.00	-	-	-	-	-	_	•	60	240
9/16"	XL76208	2' Cross Tee (Unnotched	) 24 x 9/16 x	1-3/4"	69.69	-	-	-	-	-	-	-	•	60	120
	XL6140	4' Cross Tee	48 x 9/16 x	1-3/4"	-	12.60	-	-	-	-	-	-	•	60	240
9/16"	XL6120	2' Cross Tee	24 x 9/16 x	1-3/4"	66.89	-	-	-	_	-	-	_	•	60	120
Item No.	Descriptio	`			_FT/ Ctn.			ice I	tem No.		criptio		Dimensions (Inches)	Pcs./ Ctn.	LFT/ Ctn.
SingleSpa	ın Lateral	Support Bar					S	ingleS	pan Struct	ural V	/all Ai	ngle			
LSB4HRC	48" Lateral :	Support Bar 48 x 2	16" 10	0 4	10		12	2' \$	SWA9854HR0	Stru	ctural W	/all Angle	144 x 1-1/4 x 15/16"	12	144
LSB6HRC	72" Lateral	Support Bar 72 x 2	16" 10	10 60 12' <b>SWA9878HRC</b> Structural Wall Angle 144 x 7/8 x 15/16"		144 x 7/8 x 15/16"	12	144							
LSB8HRC	96" Lateral	Support Bar 96 x 2	16" 10	0 0	30		St	Structural wall angle is required when hanger wires are greater than 24" from			e wall.				
LSB10HRC	120" Latera	Support Bar 120 x	2.16" 10	0 -	100		C	lips				Pcs./Ctr	n.		
LSB12HRC	144" Latera	Support Bar 144 x	2.16" 10	0 -	120		_		CTAC	Cros	s Tee A	dapter Clip	_	100	
							_								



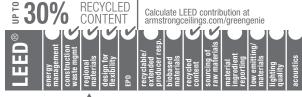






# SONATA® XL®

## **Dimensional Tee System**



This sophisticated dimensional 9/16" suspension system offers co-extruded steel construction for crisp edge profile detailing.



#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves time and money; Armstrong Ceilings offers an ICC-ES approach to installations
- · Co-extruded steel provides crisp edge and profile detailing and excellent corrosion
- XL® staked-on end detail provides secure locked connection; easy to remove, reuse,
- · Accommodates virtually any fixture, especially 1' x 4' light fixtures
- 10-Year Limited Warranty; 30-Year Limited Warranty with HumiGuard® Plus products
- Some items available in metric sizes

COLORS Due to printing limitations, shade may vary from actual product.









Gun Metal Grey (MY)

#### **VISUAL SELECTION**

Face Profile	ltem No. ◆	Description	Dimensions (Inches)	Hange Spacir Lbs./L	ıg*		
Sonata	a® XL®			2 Ft.	30"	4 Ft.	5 Ft.
9/16"	6501	12' HD Main Beam	144 x 9/16 x 1-13/16"	_	-	19.42	-
9/16"	XL6561	5' Cross Tee	60 x 9/16 x 1-13/16"	-	-	-	6.43
9/16"	XL6541	4' Cross Tee	48 x 9/16 x 1-13/16"	-	-	15.88	-
9/16"	XL6531	30" Cross Tee	30 x 9/16 x 1-13/16"	-	30.9	-	-
9/16"	XL6521	2' Cross Tee	24 x 9/16 x 1-13/16"	42.0	-	-	-
9/16"	XL6511	1' Cross Tee	12 x 9/16 x 1-13/16"	42.0	_	_	-
Moldin	ıg						
9/16"	7821	12' Shadow Molding	144 x 9/16 x 15/16 x 3/16 x 3/8"	-	-	-	-

*	Simple	Span

<sup>◆</sup> When specifying or ordering, add 2-letter color suffix to item number (ex. 65101 S G)

#### **PERFORMANCE**

	Seismic	
re	Category	
uard™		
Dots level	represent high of performance.	
-	•	
-	•	
	•	
-	•	
-	•	
-	•	
-	-	

# **PACKAGING**

Pcs./ Ctn.	LFT/ Ctn.	
50	144	
50	180	
36	144	
36	90	
36	72	
36	36	
30	360	

HD - Heavy-duty

ID - Intermediate-duty LD - Light-duty

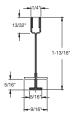
#### **DETAILS** For more information, see submittal BPCS-3209.



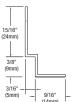
SONATA Main Beam



SONATA Main Beam and Cross Tee





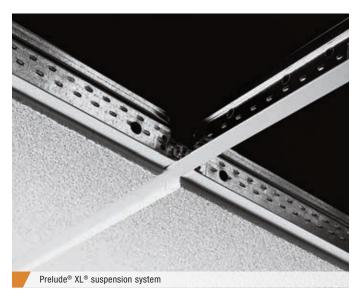




# SUPRAFINE® XL® and ML SUPRAFINE XL **High Recycled Content**

**Exposed Tee System** 





This versatile 9/16" suspension system combines durability and stability with a refined appearance.

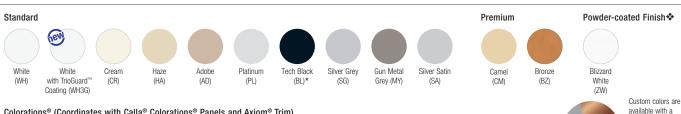
#### **KEY SELECTION ATTRIBUTES**

- Seismic Rx® Suspension System saves time and money; Armstrong Ceilings offers an ICC-ES approach to installations (ESR-1308)
- Suprafine® suspension systems are part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today
- · PeakForm® profile increases strength and stability
- . SuperLock™ main beam clip is engineered for a strong, secure connection and fast, accurate alignment
- · Hot-dipped galvanized coating inhibits red rusting better than other systems
- Some items available in metric sizes
- 1-11/16" web height keeps components vertical and stable at light fixture interface



- · 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products
- Available with TrioGuard™ coating that resists dirt, bacteria, mold, mildew, and color fading
- FastSize<sup>™</sup> main beams and cross tees can be ordered with special sizing and rout spacing for your project needs in one carton minimum with two-week lead times
- Fire Guard<sup>™</sup> options offer UL design fire-rated performance.
- · Blizzard White powder-coated finish coordinates with Calla®, Optima®, Ultima®, and Lyra® ceiling panels for a clean, seamless, monolithic installed visual
- · Linear lighting integration is easy with made-to-order main-beam-to-cross-tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths)

#### **COLORS AND FINISH**



Lagoon

Plum

Cranberry

Kiwi

Tangerine (TG)

Reef

#### Colorations® (Coordinates with Calla® Colorations® Panels and Axiom® Trim)



To see Ultima® and Optima® Create!™ and RAL® colors, visit armstrongceilings.com/createcolors

- tems available in Blizzard White powder-coated finish
- Tech Black (BL) coordinates with Black (BK) for Colorations projects.

#### VISUAL SELECTION

Face Profile	Item No. ◆	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing Lbs./LF	
Suprafir	ne® XL® and Supra	afine XL High Recycle	ed Content (Red	Numbers are Fire Guard™ Items)	4 Ft.	5 Ft.
9/16"	7501† †† 7501HRC 8501	12' HD Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	16.86	10.62
9/16"	7500 <b>*</b> †† 8500	12' ID Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	12.75	5.74
9/16"	7502�	10' ID Main Beam	6" O.C.	120 x 9/16 x 1-11/16"	12.75	5.74
9/16"	XL7580*	8' Cross Tee	12" O.C.	96 x 9/16 x 1-11/16"	12.73**	_
9/16"	XL7590�	6' Cross Tee	12" O.C.	72 x 9/16 x 1-11/16"	12.73**	_
9/16"	XL7558*	5' Cross Tee	6", 20", 30"	60 x 9/16 x 1-11/16"	_	5.80
9/16"	XL7541HRC	4' Cross Tee	_	48 x 9/16 x 1-11/16"	12.73	-
9/16"	XL7540† †† XL8540	4' Cross Tee	12" O.C.	48 x 9/16 x 1-11/16"	10.34	_
9/16"	XL7549* ††	4' Cross Tee	_	48 x 9/16 x 1-11/16"	16.42	_
9/16"	XL7530�	3' Cross Tee	_	36 x 9/16 x 1-11/16"	_	_

- Simple Span
- † Items available in Standard, Premium, and Blizzard White powder-coated finish †† Items available with TrioGuard™ coating in White (WH3G)
- Items available in Blizzard White powder-coated finish

armstrongceilings.com/suspensionsystems

◆ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7501<u>HA</u> - Haze)

# rmstrong **CEILING & WALL SOLUTIONS**

Made-to-order

Sherwin-Williams® Colors Available

Sherwin-Williams® 4-digit color code from the Duration® or Harmony® flat interior paint

families (Code SW

Fire Guard™	Seismic Category	Pcs./	LFT/
め	-₩- def	Ctn.	Ctn.
Dots re level of	present high performance.		
_	•	20	240
-	•	20	240
•	•	20	240
_	_	20	240
•	_	20	240
_	_	20	200
_	•	20	160
_	•	20	120
_	•	60	300
_	•	60	240
_	•	60	240
•	•	60	240
_	•	60	240
_	•	60	180
		ASTM Clas	

HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

# SUPRAFINE® XL® and ML SUPRAFINE XL **High Recycled Content**

**Exposed Tee System** 



Living Building

Challenge Compliant

High Performance Sustainable Ceiling Systems



10% Pre-consumer 53% Post-consumer

VISUAL SELECTION				
Face	Item			
Profile	No. ◆			

Suprafine® XL® and

9/16" FS FastSize™

9/16"

Item No. ◆	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing Lbs./LF	
e® XL® and Supra	fine XL High Recycled	Content (Red N	umbers are Fire Guard™ Items)	4 Ft.	5 Ft.
XL7570*	30" Cross Tee	_	30 x 9/16 x 1-11/16"	28.67	_
XL7520† XL7520HRC XL8520	2' Cross Tee	-	24 x 9/16 x 1-11/16"	51.83	-
XL7510*	1' Cross Tee	_	12 x 9/16 x 1-11/16"	51.83	_

Main beams L: 36" - 144" / Cross tees L: 3" - 144" / Rout spacing 2" from ends, 4" thereafter

PERFUR	IMANGE	PACKAGING		
Fire Guard™			LFT/ Ctn.	
	present high performance.			
_	•	60	150	
_ _ •	•	60 60 60	120 120 120	
_	•	120	120	
		Varies	Varies	

DACKACING

9/16"	7504�	120" HD Main Beam	15", 42", 48", 75", 102", 108"	120 x 9/16 x 1-11/16"	12.75	10.62	-	•	20	200
9/16"	7505�	100" HD Main Beam	2", 26", 50", 74", and 98"	100 x 9/16 x 1-11/16"	-	_	_	•	20	166
9/16"	7507*	144" HD Main Beam	15", 36", 42", 63", 84", 90", 11",132", 138"	144 x 9/16 x 1-11/16"	-	_	_	•	20	240
9/16"	7508�	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	132 x 9/16 x 1-11/16"	-	-	_	•	20	220
9/16"	TZXL7556�	56" Cross Tee	_	56 x 9/16 x 1-11/16"	_	_	_	•	60	280
9/16"	XL7562*	42" Cross Tee	_	42 x 9/16 x 1-11/16"	12.34	_	_	•	60	210
9/16"	XL7528*	28" Cross Tee	_	28 x 9/16 x 1-11/16"	-	_	_	•	60	140
9/16"	XL7561*	21" Cross Tee	_	21 x 9/16 x 1-11/16"	_	_	_	•	60	105
9/16"	XL7506*	6" Cross Tee	_	6 x 9/16 x 1-11/16"	-	_	_	•	60	30
9/16"	XL7504*	4" Cross Tee	_	4 x 9/16 x 1-11/16"	-	_	_	•	60	20
Suprafi	ne® ML				4 Ft.	5 Ft.				
9/16"	ML7540*	4' Cross Tee	_	48 x 9/16 x 1-11/16"	10.34	_	_		60	240
9/16"	ML7520 *	2' Cross Tee		24 x 9/16 x 1-11/16"	51.80	_	_	_	60	120

Simple Span

† Items available in Standard, Premium, and Blizzard White powder-coated finish
†† Items available with TrioGuard™ coating in White (WH3G)

♦ Items available in Blizzard White powder-coated finish

♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., ML7540HA - Haze)

FS FastSize: Factory-finished, made-to-order sizes, shipped fast (1 ca	carton min.)
--	--------------

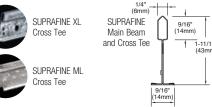
ASTM Class HD - Heavy-duty ID - Intermediate-duty LD - Light-duty

Item No.			(A) Flange	(B) Height	(C) Reveal	(D) Reveal	Pcs./ Ctn.	LFT/ Ctn.
Suggested Wa	all Moldings and Shadow Moldin	gs (Additional moldin	g options availa	ble. See catalo	og pgs. 376-37	(8)		
7808�	10' Hemmed Angle Molding	120"	2"	2"	-	_	10	100
7804�	12' Hemmed Angle Molding	144"	9/16"	7/8"	_	_	30	360
7804HRC	12' Hemmed Angle Molding	144"	9/16"	7/8"	-	-	30	360
7835	10' Channel Molding	120"	7/8"	1-3/4"	3/8"	-	20	200
7873�	10' Shadow Molding	120"	9/16"	15/16"	3/8"	_	30	300
7874�	10' Shadow Molding	120"	9/16"	15/16"	1/4"	_	30	300
7877�***	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	_	30	300
7889�	10' Shadow Molding	120"	9/16"	15/16"	3/8"	1/4"	30	300
7850�	10' Hemmed Angle Molding	120"	1-1/8"	7/8"	_	_	30	300
7851�	12' Hemmed Angle Molding	144"	1-1/8"	7/8"	_	_	30	360

**ACCESSORIES** For accessories see pages 405-406.

**DETAILS** For more information, see submittal CS-3077











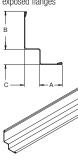
LEED® is a registered trademark of the U.S. Green Building Council Sherwin-Williams®, Duration®, and Harmony® are registered trademarks of The Sherwin-Williams Company RAL® is a registered trademark of RAL gGmbH Declare™ is a service mark of The International Living Future Institute



Angle molding, shadow molding, channel molding, and other wall moldings are an important detail in the design and installation of each ceiling system. Wall moldings offer a unique solution to each ceiling system by maintaining a consistent look and performance to each design.

LOCATION DEPENDENT

Shadow molding:
Hemmed with prefinished
exposed flanges



Item No.	Length	(A) Flange	(b) Height	(c) Reveal	Ctn.
7823*	120"	2"	1-1/4"	3/4"	100
7871	120"	3/4"	15/16"	3/4"	300
7873	120"	9/16"	15/16"	3/8"	300
7874	120"	9/16"	15/16"	1/4"	300
7875	120"	3/4"	15/16"	1/2"	300
7877*	120"	15/16"	15/16"	1/4"	300
7878*	120"	15/16"	15/16"	3/8"	300
7897*	120"	15/16"	15/16"	1/2"	300

(1)

\* Suitable for IBC Category D, E, F installations. NOTE: Shadow molding can be rotated to be used with either flange. For molding corner covers see page 380.

Shadow molding: Hemmed with prefinished exposed

flanges



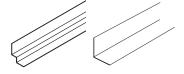
	Item No.	Length	` '	Height	` '	Reveal		
W	7888	120"	15/16"	15/16"	3/8"	1/4"	300	
W	7889	120"	9/16"	15/16"	3/8"	1/4"	300	



LET/

LET/

Item No.	Length	(A) Flange	(B) Height	(C) Reveal	LFT/ Ctn.
Angle					
7880*	96"	1"	1"	-	96
7882*	96"	7/8"	15/16"	-	96
7884*	96"	15/16"	15/16"	-	96
7885*	96"	9/16"	1"	-	96
7887	96"	2"	1-1/2"	-	96
Shadow					
7890	96"	3/4"	1-5/8"	3/4"	96
7898	96"	9/16"	1"	3/8"	96



\* Available in Black and White









Item No.	Length	(A) Flange	(b) Height	(c) Reveal	Ctn.
7877*	120"	15/16"	15/16"	1/4"	300
7878*	120"	15/16"	15/16"	3/8"	300
7897*	120"	15/16"	15/16"	1/2"	300

\* Suitable for IBC Category D, E, F installations.

NOTE: Shadow molding can be rotated to be used with either flange. For molding corner covers see page 380.

#### Shadow molding: Inside and outside corners

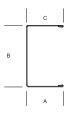




Item No.	Description
7874IC	Inside Corner for 7874 Molding
78740C	Outside Corner for 7874 Molding
7861	Inside Corner for 7873 Molding
7862	Outside Corner for 7873 Molding
7877IC	Inside Corner for 7877 Molding
78770C	Outside Corner for 7877 Molding
7878IC	Inside Corner for 7878 Molding
78780C	Outside Corner for 7878 Molding

NOTE: Shadow molding can be rotated to be used with either flange (Corners will not work with rotated moldings).

Recommended moldings are included with suspension systems interface drawings on pages 407-411



Item No.	Length	(A) Flange	(B) Height	(C) Reveal	LFT/ Ctn.
7830	120"	15/16"	1-15/16"	15/16"	160
7831	120"	15/16"	1-9/16"	15/16"	200
7834	120"	15/16"	1-1/4"	1/2"	240
7835*	120"	7/8"	1-3/4"	9/16"	200
7835SC**	11"	7/8"	1-3/4"	9/16"	150
HD7831WA***	120"	7/8"	1-3/4"	9/16"	200



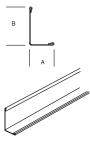
# **MOLDINGS**

Angle molding, shadow molding, channel molding, and other wall moldings are an important detail in the design and installation of each ceiling system. Wall moldings offer a unique solution to each ceiling system by maintaining a consistent look and performance to each design.

\$30% RECYCLED CONTENT	Calculate LEED contribution at armstrongceilings.com/greengenie
LEED® energy management construction waste mgmt regional materials design for retaility regional materials responsibility regional materials regional materials regional regio	recyclable/ stander resp. biobased materials recycled content rewiched councing of raw materials materials materials low emitting/ low emitting/ low emitting/ acustics
<b>▲</b>	

LOCATION DEPENDENT

Angle molding: Hemmed with prefinished exposed flanges
—— p



Item No. ◆	Length	(A) Flange	(B) Height	LFT/ Ctn.
<b>7800</b> *†	144"	7/8"	7/8"	360
7800HRC	144"	7/8"	7/8"	360
7802	120"	7/8"	7/8"	300
7803�	144"	7/8"	7/8"	360
7804**†	144"	9/16"	7/8"	360
7804HRC	144"	9/16"	7/8"	360
780410	120"	9/16"	7/8"	300
7805	120"	1-1/2"	1-1/2"	300
7807****	120"	2"	1"	100
7808****†	120"	2"	2"	100
780812	144"	2"	2"	120
7809	144"	15/16"	15/16"	360
7813	120"	3"	1"	200
7850	120"	1-1/8"	7/8"	360
7851	144"	1-1/8"	7/8"	300
HD7801***	120"	7/8"	7/8"	300

SWA9878HRC 144" 7/8" 7/8" 144 Available in Adobe, Black, Cream, Haze, Camel, White, Platinum, Oyster, Pewter, Bronze, Silver, Copper, Wolf, Vanilla, Slate, White Aluminum, and Matural Aluminum
 Available in Black, Cream, Haze, Platinum, White, Camel, Silver Grey,

7/8"

7/8"

7/8"

1-1/4"

- Silver Satin, and Gun Metal Grey
  Available in Silver Satin, Silver Grey, Gun Metal Grey, White Aluminum,
- Natural Aluminum, G90 Available in Black, White, Silver Grey, and Gun Metal Grey

120"

120"

120"

144"

HD7801G90

SS7801

AL7801

SWA9854HRC

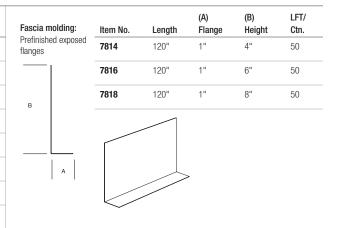
- Pre-punched
   † Items available with TrioGuard™ coating in White (WH3G)
   ◆ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7807<u>WH</u>)

Slip-on molding:	Item No.	Length	(A) Flange	(B) Height	LFT/ Ctn.
For glue-up tile	7842	120"	1/2"	5/8"	400
	7843	120"	1/2"	3/4"	400
В			/		





For more information, see submittal BPCS-3296.



Reverse angle	Item No.	Length	(A) Flange	(B) Height	LFT/ Ctn.
molding: Hemmed with prefinished exposed	7857	144"	15/16"	15/16"	360
flanges	7858	144"	1-9/16"	15/16"	240
A					

"F" molding:	Item No.	Length	(A) Width	(B) Face	(C) Flange	LFT/ Ctn.
For 1/2" and 5/8" drywall	7852	120"	1/2"	1-1/16"	7/8"	200
	7856	120"	5/8"	1-3/16"	7/8"	200
C A B	<u> </u>			//		



300

300

300

144

7/8"

7/8"

7/8"

1-1/4"

# TRANSITION MOLDINGS

Calculate LEED contribution at

Transition moldings save time and money. LOCATION DEPENDENT

Conventional transition methods waste time and material.

#### Why use transition moldings?

- · Easier to install:
- Fewer parts and pieces; combines molding with drywall taping flange
- Pre-punched vertical web to improve screw attachment
- Knurled and slotted integral taping flange on items 7901, 7902, 7904, 7905, 7906, 7907, 7908 accommodates taping and finishing
- Protective film on the face of the wall molding flange of 7904PF and 7905PF facilitates faster, easier mudding, sanding, and taping
- Compatible with all types of framing including Armstrong® Drywall Grid and ShortSpan® Drywall Framing System
- Factory-painted to match Armstrong Suspension Systems



1 Item: 7907 -9/16" Tegular Transition Molding



#### Transition moldings eliminate:

- 1 Vertical drywall return at the transition
- 2 Return framing to support drywall return
- 3 Separate acoustical wall angle installation
- 4 Corner bead and vertical taping

**COLOR** 

NOTE: Lay out drywall main beams parallel to the transition molding to maintain 4' O.C. hanger wire spacing.

#### **MATERIALS** Commercial-quality cold-rolled, hot-dipped galvanized steel, chemically cleansed LFT/ Item White Description No. (WH) 9/16" Shadow Reveal Transition Molding 120", 3/8" shadow reveal with 7901 120 9/16" horizontal flange 9/16" 15/16" Shadow Reveal Transition Molding 120", 3/8" shadow reveal with 7902 120 15/16" horizontal flange 15/16" 7903 1" Flush T Transition Molding 120 120", 1" inverted T for monolithic horizontal transitions 7904 15/16" Flush Transition Molding 120 120", 15/16" horizontal flange 7904PF\* 1-1/4" \* Protective film applied to face of Available protective film — 1-3/8" wall molding for easier finishing 9/16" Flush Transition Molding 120", 9/16" horizontal flange 7905 120 7905PF\* 1-1/4" \* Protective film applied to face of - 1-3/8" -9/16" protective film wall molding for easier finishing 7906 "F" Vertical Transition Molding 120 120" vertical transition 1-7/16 1/2" 7907 9/16" Tegular Transition Molding 120 120", 9/16" horizontal flange 15/16 1-3/8 9/16 7908 15/16" Tegular Transition Molding 120 120", 15/16" horizontal flange 15/16"

## EXPOSED TEE SYSTEM ACCESSORIES

 $\textbf{FastShip}^{^{\text{\tiny{TM}}}}\,\textbf{Clips and Accessories}$ 

The FastShip Clips and Accessories program offers over 90 items available for overnight or ground delivery direct to the jobsite in full-size or 50-piece cartons. Item numbers beginning with "FZ".

2" Beam End Retaining Clip - Joins main beam or cross tee to wall molding and web of suspension system with no visible pop rivets.

ALBERC2 (aluminum) - 200 pcs FZALBERC2 (aluminum) - 50 pcs

BERC2 (steel) - 200 pcs FZBERC2 (steel) - 50 pcs





Seismic Joint Clip Cross Tee - Offers a tested seismic solution for separation joints in Seismic Category D, E, and F installations.

SJCG (PeakForm) - 200 pcs FZSJCG (PeakForm) - 50 pcs SJCSI (square bulbs) - 200 pcs FZSJCSI (square bulbs) - 50 pcs



STAC - Single Tee Adapter GC3W90 - Grip Clip

Clip - Used to create code compliant non-seismic and to cross tee via locking seismic C and D, E, F barbs without pop rivets or off-module main beam screws

to cross tee connections. **STAC** - 120 pcs FZSTAC - 50 pcs



3-Way - Joins main beams

GC3W90 - 250 pcs FZGC3W90 - 50 pcs



DLCC - Direct Load Ceiling Clip - To hang suspension system below existing 15/16" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling and to support heavy accessories

**DLCC** - 250 pcs FZDLCC - 50 pcs



Channel Beam Splice - Used to suspend main beams to 1-1/2" black iron carrying channels.

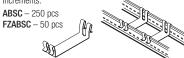
CBS4 (4") - 100pcs; FZCBS4 - 50 pcs **CBS6** (6") - 100pcs; **FZCBS6** - 50 pcs **CBS8** (8") – 100pcs; FZCBS8 - 50 pcs CBS10 (10") - 100pcs; FZCBS10 - 50 pcs

CBS12 (12") - 75pcs; FZCBS12 - 50 pcs

For 2" Black Iron

CBS2004A (4") - 75pcs; FZCBS2004A - 50 pcs **CBS2006A** (6") - 75pcs; **FZCBS2006A** - 50 pcs CBS2008A (8") - 75pcs; FZCBS2008A - 50 pcs

ABSC - Air Bar Spacer Clip - Parallel attachment of main beams; evenly spaces suspension system members for air diffuser; available in sizes from 1-7/8" to 6" in 1/8" increments.



TZYK/TZBC - TechZone™ Yoke & Brace

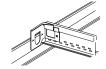
TZYK TechZone Yoke - 100 pcs FZTZYK TechZone Yoke - 50 pcs



BERC - Beam End Retaining Clip - Joins web of main beam or cross tee to wall molding with no visible pop rivets.

BFRC - 200 pcs FZBERC - 50 pcs





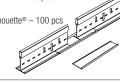
**Expansion Sleeves** 

ES4 - for 15/16" Prelude® - 100 pcs **FZES4** - 50 pcs

ES49 - for 9/16" Suprafine® - 100 pcs **FZES49** - 50 pcs

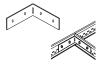
ES76004 - for 1/4" Silhouette® - 100 pcs FZES76004 - 50 pcs

FS76008 - for 1/8" Silhouette - 100 pcs FZES76008 - 50 pcs



Clip - Used to attach field-cut cross tees to main beams

XTACAG - 100 pcs FZXTACAG - 50 pcs



XTACAG - Cross Tee Adapter GCWA - Grip Clip Wall Attachment - Joins main beam or cross tee to wall molding via locking barbs without pop rivets or screws. GCWA - 250 pcs



UPCAG - Partition Clip - Fastens partition track section to suspension system for secure attachment; flip for 9/16" or 15/16" suspension system.

UPCAG - 200 pcs FZUPCAG - 50 pcs



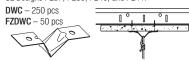


SH12 - Peak Form Support Hanger - For suspension systems 12" knock out at 12" on-center.

SB12 Square Bulb Support Hanger - 12 pcs/bundle SB12G90 Square Bulb Support - 12 pcs/bundle Hanger G90 coated - 12 pcs/bundle



DWC - Drywall Clip - Allows for a "second" ceiling to be installed below a drywall ceiling; attach through installed drywall to supporting structure; DWC approved for use in UL Designs P237, P239, P240, and P241.



435A/436A - Optima® Stabilizer Clips

7425 24" Stabilizer Bar - 100 pcs 7445 48" Stabilizer Bar - 100 pcs



Seismic Joint Clip - Main Beam - Allows the ceiling to be divided at a splice on the main beam to accommodate the IBC mandate for ceiling areas greater than 2500 SF to have seismic separation joints. ES4 expansion sleeve is used to cover 3/4" gap.

SJMR15 for 15/16" - 100 pcs FZSJMR15 for 15/16" - 50 pcs

SJMR9 for 9/16" - 100 pcs FZSJMR9 for 9/16" - 50 pcs



AXSJ-Axiom Slip Joint - Used to join two acoustical ceiling systems on seismic D, E, F installations. Can also be used to join two different ceiling systems. Hanger wire holes every 6", beginning 3" from each end.

AXSJ - 120" LFT





Closure Clips MCC4G for Silhouette® 1/4" reveal - 200 pcs FZMCC4G - 50 pcs MCC8 for Silhouette

1/8" reveal - 200 pcs **FZMCC8** - 50 pcs IES3 for Interlude® -200 pcs FZIES3 - 50 pcs

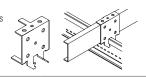
C1430 - Variable Placement Hook Clip - Attach to T-Bar to create special length tees and position anywhere along the main beams.

C1430 - 200 pcs FZC1430 - 50 pcs



UTC - Uptight Clip - For tight suspension system attachment to 1-1/2" channel; bridging under HVAC ducts; can be used to install the suspension system tight to wood joists.

UTC - 250 pcs FZUTC - 50 pcs



Adjustable Grid Spacer Clip –

Used to space two parallel main beams for light fixtures, air diffusers, etc.; allows for 1/4" adjustments with three different clips **FZGSC9** - 50 pcs

GSC9 Main Beam Center Line Spacing 2'1/2" - 8'1/2" - 100 pcs

GSC12 Main Beam Center Line Spacing FZGSC12 - 50 pcs 5'1/2" - 11'1/2" - 100 pcs

GSC16 Main BeamCenter Line Spacing FZGSC16 - 50 pcs

9'1/2" - 15'1/2" - 100 pcs Linnin min համամանող

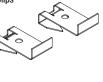
7872 - 12" Stiffening Brace 20 pcs

7876 - Field Rout Tool

ARPLUG - Cross Tee Plug Clip 80 pcs

440A/441A/442A/522A - Vector® Clips

440A Ultima® Border Clip - 50 pcs 441A Optima® Border Clip - 50 pcs **442A** Hold Down Clip – 50 pcs 522A Mid-point Clip – 50 pcs



rmstrong CEILING & WALL SOLUTIONS

# EXPOSED TEE SYSTEM ACCESSORIES

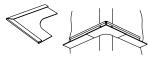
Calculate LEED contribution at armstrongceilings.com/greengenie

LOCATION DEPENDENT

7866 - Bullnose Corner Cover - For nominal 7/8" molding; snap over molding to trim outside corners; fits 1" radius block; 2" legs.

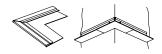
7864 - Bullnose Corner Cover - For nominal 7/8" molding; fits 3/4" radius block; 2" legs.

7866 - 100 pcs FZ7866 - 50 pcs 7864 - 100 pcs F77864 - 50 pcs



7863 - Outside Corner Cover - For nominal 7/8" angle molding; snap over molding to trim outside corners; 2" legs.

**7863** - 100 pcs FZ7863 - 50 pcs



Shadow Molding - Outside Corner - snaps over mold to easily trim outside corner:

**78740C** use with 7874 - 100 pcs; **FZ78740C** - 50 pcs **7862** use with 7873 – 100 pcs; **FZ7862** – 50 pcs **78770C** use with 7877 – 100 pcs; **FZ78770C** – 50 pcs **78780C** use with 7878 - 100 pcs; **FZ78780C** - 50 pcs



UHDCA - Universal Hold Down Clip - Attaches to top bulb of the suspension system to hold 1/16" to 5/8" lay-in panel in place; helps to prevent ceiling panel fluttering at entryways.

**UHDCA** - 1,000 pcs FZUHDCA - 50 pcs

 ${
m CHDC}$  – Clear Hold Down Clip – 50 pcs



7891 - 12 Gauge Soft Hanger Wire (12' length) - Used to hang suspended ceilings from structural deck.

**7891** - 140 pcs



WS12 - Hanger Wire Splice - Splices #12 gauge hanger wire: recommended for renovation applications; provides easy adjustment of ceiling height.

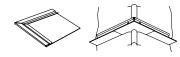
WS12 - 1,000 pcs FZWS12 - 50 pcs



7867 - Field-Cut Corner Cover - For nominal 15/16" molding; cut to fit irregular corner conditions; 2" legs.

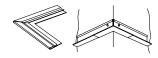
7867 - 100 pcs

FZ7867 - 50 pcs



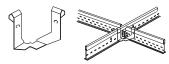
7865 - Outside Corner Cover - For nominal 9/16" angle molding; snap over molding to trim outside corners; 2" legs.

**7865** - 100 pcs **FZ7865** - 50 pcs



LFC - Fixture Clip - Prefinished White for use at corners of light fixture modules on 9/16" exposed tee suspension systems (Suprafine®, Interlude®, Silhouette®); increases corner size to 15/16" which adapts light fixtures designed for the 15/16" suspension system; used when fixtures are not positively attached to the suspension system.

LFC - 80 pcs; FZLFC - 50 pcs



DW58LT - Transition Clip for 5/8" Drywall - Facilitates transition from drywall to acoustical ceiling; one-sided hold down clip; eliminates need for drywall bead. Locking tabs provide secure location for DGS tees.

DW50LT - Transition Clip for 1/2" Drywall - 125 pcs **FZDW50LT** - 50 pcs

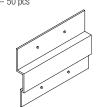


EHDC50A - Exterior Hold Down Clip for 1/2" lay-in ceiling panels and drywall; EHDC58AG - Exterior Hold Down Clip for 5/8" lay-in ceiling panels and drywall;

EHDC75A - Exterior Hold Down Clip for 3/4" lay-in ceiling panels and drywall; locks under bulb of suspension system member to prevent upward movement.

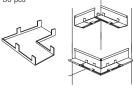
EHDC50A - 125 pcs; FZEHDC50A - 50 pcs **EHDC58AG** - 125 pcs; **FZEHDC58AG** - 50 pcs EHDC75A - 125 pcs; FZEHDC75A - 50 pcs

BACG90A - Wind Uplift Clip - 250 pcs FZBAGG90A - 50 pcs



7869 - Inside/Outside Corner Cover - For nominal 7/8" angle molding; 1-3/4" legs.

7869 - 50 pcs



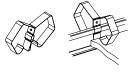
Shadow Molding - Inside Corner - Snaps over mold to easily trim inside corner:

**7874IC** use with 7874 - 100 pcs; **FZ7874IC** -50 pcs**7861** use with 7873 – 100 pcs; **FZ7861** – 50 pcs **877IC** use with 7877 – 100 pcs; **FZ877IC** – 50 pcs **7878IC** use with 7878 - 100 pcs; **FZ7878IC** -50 pcs

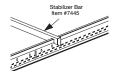


414AG - Retention Clip - Attaches to main beams and cross tees behind lay-in ceiling; helps prevent accidental panel displacement by basketballs and other forces from below the ceiling.

414AG - 100 pcs FZ414AG - 50 pcs



7445 - 48" Stabilizer Bar - 100 pcs; 7445 - 50 pcs 7425 - 24" Stabilizer Bar - 100 pcs; 7425 - 50 pcs Used to maintain uniform spacing of suspension system components (main beams and cross tees).



**GA7327 – Grid Adapter** – Allows for easy directional changes of Prelude Main® beams; 27" long component has two different end details. One end has a SuperLock™ clip with a rout 3" from the end, opposite end has an XL2 clip with override end detail. This enables the adapter to be connected to either end of a Prelude main beam or plugged into a rout location on a main beam or cross tee. GA7327 - 60 pcs



12 lb. Aircraft Cable and Connectors

AC1210 - 10' length AC1215 - 15' length AC1220 - 20' length

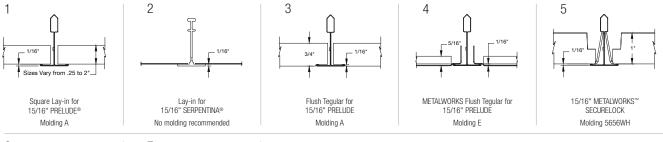
ACHC - Cable Quick Loop Connector

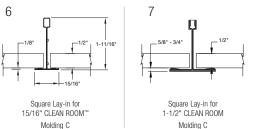
1 pc



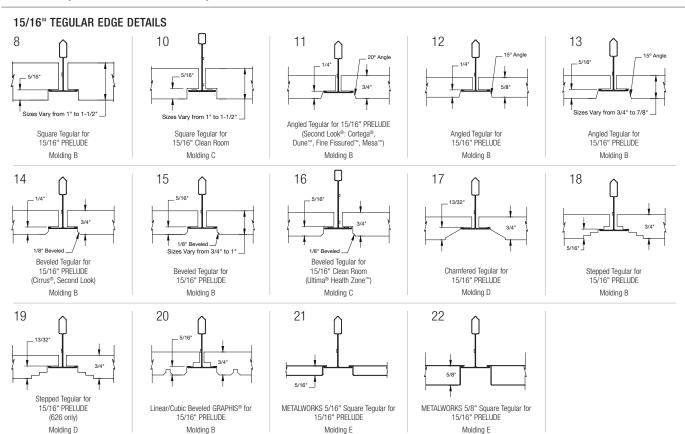
#### RECOMMENDED MOLDING KEY:

- A Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B 7800, 7874 or seismic 7877, 7888
- C ES7801 or EA7801
- D 7800, 7873, 7878, 7888, 7889
- E 7835, 7835SC
- F 7804, 7874, 7889 or seismic 7800, 7877, 7888 G 7804, 7873 or seismic 7800 or 7878, 7889
- H 7800 or Shadow 7875, 7897

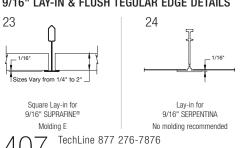




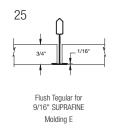
15/16" LAY-IN & FLUSH TEGULAR EDGE DETAILS



#### 9/16" LAY-IN & FLUSH TEGULAR EDGE DETAILS



armstrongceilings.com/suspensionsystems

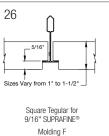


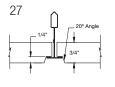


#### RECOMMENDED MOLDING KEY:

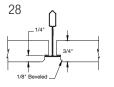
- A Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- 7800, 7874 or seismic 7877, 7888
- C ES7801 or EA7801
- D 7800, 7873, 7878, 7888, 7889
- E 7835, 7835SC
- F 7804, 7874, 7889 or seismic 7800, 7877, 7888 G 7804, 7873 or seismic 7800 or 7878, 7889
- H 7800 or Shadow 7875, 7897

#### 9/16" TEGULAR EDGE DETAILS

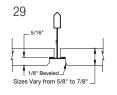




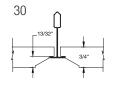
Angled Tegular for 9/16" SUPRAFINE (Second Look®: Cortega®, Dune™, Fine Fissured™) Molding F



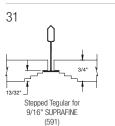
Beveled Tegular for 9/16" SUPRAFINE (Cirrus®, Second Look) Molding F

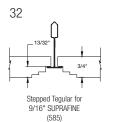


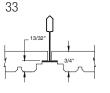
Beveled Tegular for 9/16" SUPRAFINE Molding F



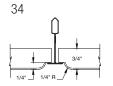
Chamfered Tegular for 9/16" SUPRAFINE Molding G



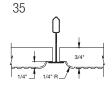




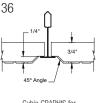
Linear/Cubic Beveled GRAPHIS® for 9/16" SUPRAFINE Molding G



Wrapped Linear GRAPHIS for 9/16" SUPRAFINE Molding F

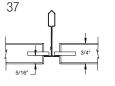


NeoCubic GRAPHIS for 9/16" SUPRAFINE Molding F



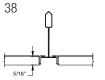
Molding G

Cubic GRAPHIS for 9/16" SUPRAFINE Molding F

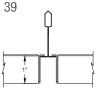


Molding G

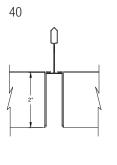
WOODWORKS® Tegular for 9/16" SUPRAFINE Molding F



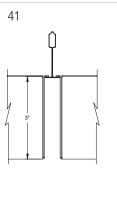
METALWORKS™ 3D (7220) and METALWORKS Tegular (6464) for 9/16" SUPRAFINE Molding E



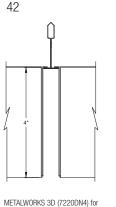
METALWORKS 3D (7220DNI) for 9/16" SUPRAFINE No molding recommended



METALWORKS 3D (7220DN2) for 9/16" SUPRAFINE No molding recommended

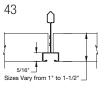


METALWORKS 3D (7220DN3) for 9/16" SUPRAFINE No molding recommended

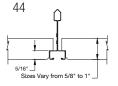


9/16" SUPRAFINE No molding recommended

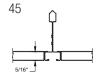
#### 9/16" - 1/4" SILHOUETTE® XL EDGE DETAILS



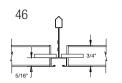
Square Tegular for 9/16" SILHOUETTE 1/4" Reveal Molding F



Beveled Tegular for 9/16" SILHOUETTE 1/4" Reveal Molding F



METALWORKS 9/16" Square Tegular for SILHOUETTE 1/4" Reveal Molding E

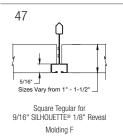


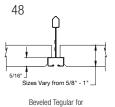
WOODWORKS 9/16" Square Tegular for SILHOUETTE 1/4" Reveal Molding F

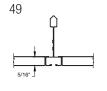
#### RECOMMENDED MOLDING KEY:

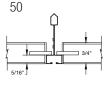
- A Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B 7800, 7874 or seismic 7877, 7888
- C ES7801 or EA7801 D 7800, 7873, 7878, 7888, 7889
- E 7835, 7835SC
- F 7804, 7874, 7889 or seismic 7800, 7877, 7888 G 7804, 7873 or seismic 7800 or 7878, 7889
- H 7800 or Shadow 7875, 7897

#### 9/16" - 1/8" SILHOUETTE® XL® EDGE DETAILS







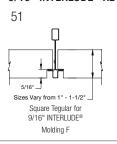


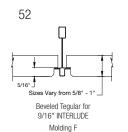
Beveled Tegular for 9/16" SILHOUETTE 1/8" Reveal Molding F

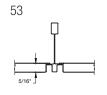
METALWORKS™ 5/16" Square Tegular for SILHOUETTE 1/8" Reveal Molding E

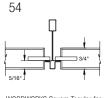
WOODWORKS® Square Tegular for SILHOUETTE 1/8" Reveal Molding F

#### 9/16" INTERLUDE® XL EDGE DETAILS





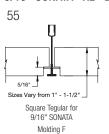


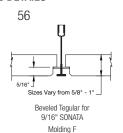


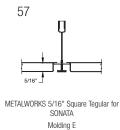
METALWORKS 5/16" Square Tegular for INTERLUDE® XL® HRC Molding E

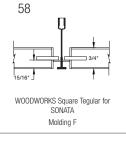
WOODWORKS Square Tegular for INTERLUDE XL HRC Molding F

#### 9/16" SONATA® XL® EDGE DETAILS

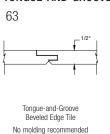


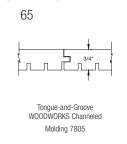






#### TONGUE-AND-GROOVE EDGE DETAILS



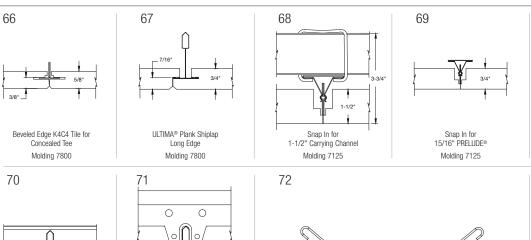


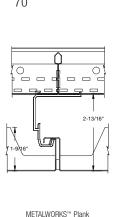


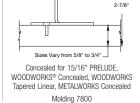
#### RECOMMENDED MOLDING KEY:

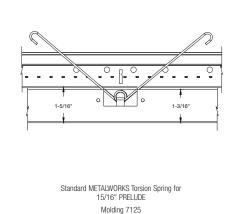
- A Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- 7800, 7874 or seismic 7877, 7888
- C ES7801 or EA7801
- D 7800, 7873, 7878, 7888, 7889
- E 7835, 7835SC
- F 7804, 7874, 7889 or seismic 7800, 7877, 7888 G 7804, 7873 or seismic 7800 or 7878, 7889
- H 7800 or Shadow 7875, 7897



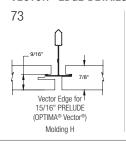


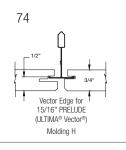


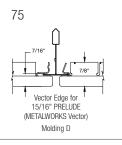


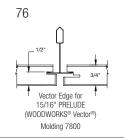


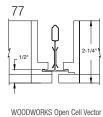
#### **VECTOR® EDGE DETAILS**











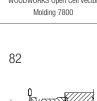
**METAPHORS® EDGE DETAILS** 











METAPHORS Convex Coffer for 9/16" SUPRAFINE

METAPHORS Linear Coffer for 9/16" SUPRAFINE

86

METAPHORS Bead Coffer for 9/16" SUPRAFINE

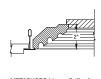
87



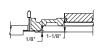




85



METAPHORS Linear Coffer for 15/16" PRELUDE

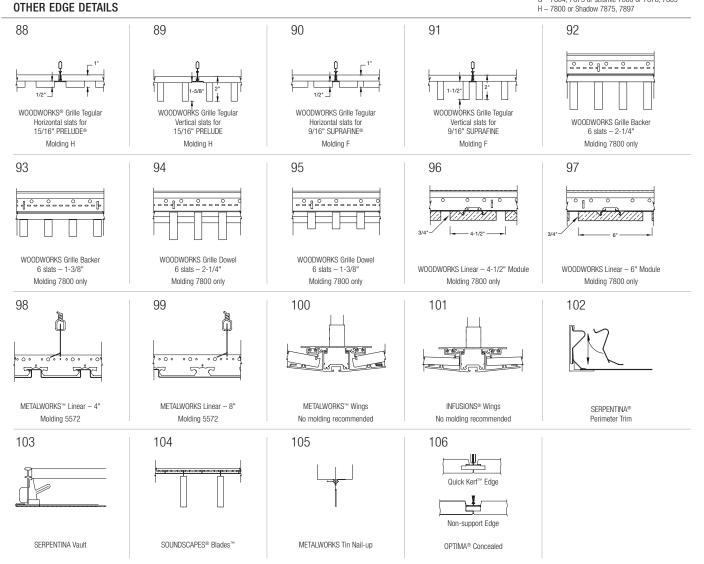


METAPHORS Bead Coffer for 15/16" PRELUDE

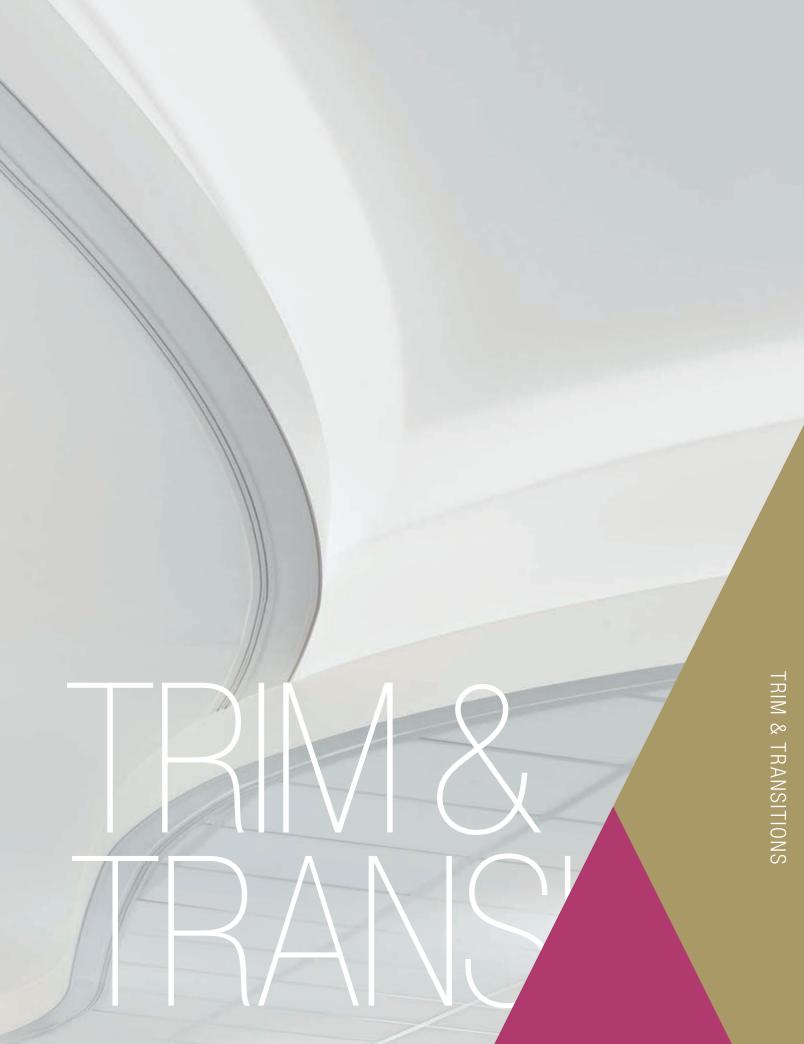


#### RECOMMENDED MOLDING KEY:

- A Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B 7800, 7874 or seismic 7877, 7888
- C ES7801 or EA7801 D 7800, 7873, 7878, 7888, 7889
- E 7835, 7835SC
- F 7804, 7874, 7889 or seismic 7800, 7877, 7888 G 7804, 7873 or seismic 7800 or 7878, 7889
- H 7800 or Shadow 7875, 7897







# AXIOM® TRIM & TRANSITIONS At-a-Glance



helping to bring your one-of-a-kind ideas to life

#### **AXIOM® TRIM & TRANSITIONS**





AXIOM® for Interlude®

**S** Pg. 419

AXIOM® Profiled

AXIOM® Vector®

🔥 🥰 🥞 Pg. 426

🔥 🤪 🥞 Pg. 422







AXIOM® Trim for Drywall

















AXIOM® Knife Edge®









AXIOM® Soft Edge









AXIOM® Moldings & Column Rings











AXIOM® Paired









AXIOM® Transitions







#### **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key product attributes.

#### **Humidity/Corrosion Resistance**



Humiguard® Plus recommended for areas subject to high humidity up to, but not including, standing water.

#### Seismic



# Color Availability



Available in color

#### Sustainability



Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.

NOTE: Add 2-digit color suffix to the item number when specifying or ordering Axiom trim with standard face-painted colors

(Example: AX16STR H A)

Axiom item numbers may include an extra digit "3" before the color suffix if paint is required inside and outside of the trim.

# **AX16STR 3 HA**

ITEM

₹ 360° Painted

Use an extra suffix (W - white, or B - black) before color suffix when ordering film finishes to designate the color background.

#### **AX16STR W BB** ITEM Buffed white background Bronze

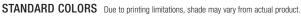
NOTE: White is standard color for all Axiom products.

Reference individual Axiom product line data pages for specific color and finish availability.

Custom colors and finishes are available. Contact Axiom Customer Service at 1 800-840-8521.



# AXIOM® COLORS At-a-Glance

























Colors Available

**COLORATIONS®** (Coordinates with Calla® Colorations® ceiling panels and Suprafine® suspension systems)























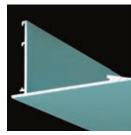












Refer to BPCS-3996 Axiom® Color Chart for Colorations® finishes, available on coordinating Calla® ceiling panels, Suprafine® 9/16" suspension system which coordinate with select Axiom trim systems.

#### ARCHITECTURAL FILM FINISHES (Available with white or black background)



Anodized (BA)





Metal (BG)





Metal (EG)





NOTE: White is standard color for all AXIOM

#### **BLIZZARD WHITE POWDER-COATED FINISH**



White (ZW)

NOTE: Blizzard White finish available on select Axiom® Classic, Knife Edge®, and Vector® trim profiles

# AXIOM® Classic

# straight and curved



This extruded aluminum perimeter trim is a solution for use as exposed custom decorative trim with suspended panels or drywall.

#### **KEY SELECTION ATTRIBUTES**

- Adjustable Trim Clip (7239) makes Axiom® Classic Trim compatible with WoodWorks® and MetalWorks<sup>™</sup> panels ranging from 0" to 3-3/4" thick
- · Crisp-edge detailing and excellent corrosion resistance compared to steel systems
- Axiom<sup>®</sup> trim is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today
- · Eight profile heights
- Compatible with Armstrong® Suspension Systems and Drywall Grid Systems
- · Finely articulated drywall trim with beaded edge integrates with all trim profiles for pre-engineered drywall transitions

- · Colors coordinate with Armstrong® ceiling and suspension systems, Colorations® colors; custom colors available
- · Design flexibility for straight and curved applications
- · 10-Year Limited warranty, 30-year system warranty



Custom slotting, perforating, and cutouts available for this Axiom® product.

COLORS Due to printing limitations, shade may vary from actual product.

#### Standard



## ARCHITECTURAL FILM FINISHES

(white or black background)

available as special order



NOTE: White is standard color for all AXIOM products

#### **COLORATIONS® COLORS**



Made-to-order Sherwin-Williams®

#### **BLIZZARD WHITE POWDER-COATED FINISH**



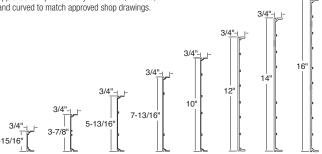
NOTE: Blizzard White finish available on select Axiom® Classic Knife Edge®, and Vector® trim profiles

#### VISUAL SELECTION

Item No. ◆	Description	Dimensions			
AXIOM® Classic Trim (Available Straight or Curved)					
AX16STR*	16" Straight Only	120 x 3/4 x 16"			
AX14STR*	14" Straight Only	120 x 3/4 x 14"			
AX12STR	12" Straight	120 x 3/4 x 12"			
AX12CUR*	12" Curved	Vary x 3/4 x 12"			
AX10STR	10" Straight	120 x 3/4 x 10"			
AX10CUR*	10" Curved	Vary x 3/4 x 10"			
AX8STR	8" Straight	120 x 3/4 x 8"			
AX8CUR*	8" Curved	Vary x 3/4 x 8"			
AX6STR	6" Straight	120 x 3/4 x 6"			
AX6CUR*	6" Curved	Vary x 3/4 x 6"			
AX4STR	4" Straight	120 x 3/4 x 4"			
AX4CUR*	4" Curved	Vary x 3/4 x 4"			
AX2STR	2" Straight	120 x 3/4 x 2"			
AX2CUR*	2" Curved	Vary x 3/4 x 2"			

Colors Available

Trim Channel: Aluminum extrusions formed with distinct architectural detail groove on top and bottom flanges and special bosses to receive the T-Bar Connection Clip, Hanging Clip, and Splice Plate, to provide positive mechanical lock with no visible fasteners. Factory-finished to match approved samples. Factory or field-cut, mitered, and curved to match approved shop drawings.



- \* Not available in architectural film finishes.
- ◆ Add the 2-digit color suffix to the item number when specifying or ordering (Example: AX2STR <u>H</u> <u>A</u>), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AX2STR <u>3</u> <u>H</u> <u>A</u>).

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# AXIOM® Classic

Trim straight and curved

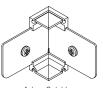
Declare<sup>™</sup> Living Building Challenge Compliant High Performance Sustainable Ceiling Systems



#### **VISUAL SELECTION**

Item No. ◆	Description	Dimensions				
AXIOM® Classic (	OM® Classic Corner Posts*					
AX120SCP	12" Outside Corner Post	7/8 x 7/8 x 12"				
AX12ISCP	12" Inside Corner Post	3/4 x 3/4 x 12"				
AX100SCP	10" Outside Corner Post	7/8 x 7/8 x 10"				
AX10ISCP	10" Inside Corner Post	3/4 x 3/4 x 10"				
AX80SCP	8" Outside Corner Post	7/8 x 7/8 x 8"				
AX8ISCP	8" Inside Corner Post	3/4 x 3/4 x 8"				
AX60SCP	6" Outside Corner Post	7/8 x 7/8 x 6"				
AX6ISCP	6" Inside Corner Post	3/4 x 3/4 x 6"				
AX40SCP	4" Outside Corner Post	7/8 x 7/8 x 4"				
AX4ISCP	4" Inside Corner Post	3/4 x 3/4 x 4"				
AX20SCP	2" Outside Corner Post	7/8 x 7/8 x 2"				
AX2ISCP	2" Inside Corner Post	3/4 x 3/4 x 2"				
AXIOM® Classic I	Pre-mitered Corners					
AX16QSOS*	16" Outside Corner	12 x 3/4 x 16"				
AX16QSIS*	16" Inside Corner	12 x 3/4 x 16"				
AX14QSOS*	14" Outside Corner	12 x 3/4 x 14"				
AX14QSIS*	14" Inside Corner	12 x 3/4 x 14"				
AX12QSOS	12" Outside Corner	12 x 3/4 x 12"				
AX12QSIS	12" Inside Corner	12 x 3/4 x 12"				
AX10QSOS	10" Outside Corner	12 x 3/4 x 10"				
AX10QSIS	10" Inside Corner	12 x 3/4 x 10"				
AX8QS0S	8" Outside Corner	12 x 3/4 x 8"				
AX8QSIS	8" Inside Corner	12 x 3/4 x 8"				
AX6QSOS	6" Outside Corner	12 x 3/4 x 6"				
AX6QSIS	6" Inside Corner	12 x 3/4 x 6"				
AX4QSOS	4" Outside Corner	12 x 3/4 x 4"				
AX4QSIS	4" Inside Corner	12 x 3/4 x 4"				
AX2QS0S	2" Outside Corner	12 x 3/4 x 2"				
AX2QSIS*	2" Inside Corner	12 x 3/4 x 2"				
* Not available in archit	actural film finishes					

Axiom corner posts eliminate miter cuts at corners for a fast and easy installation.



Axiom factory-mitered inside and outside corner

channel order. These corners come as 2" - 12" long pieces that are assembled in the field for a clean mitered corner intersection.

pieces are created to match your Axiom Trim



Axiom Inside

MINIMUM BEND RADIUS

FOR AXIOM-CLASSIC 2", 4", 6", 8" – 24" Minimum 10" – 36" Minimum 16" – 60" Minimum

#### AXIOM FACTORY MITER LIMIT

2", 4", 6", 8" - Minimum 30° acute angle (15° per cut) 10". 12". 14". 16" - Minimum 60° acute angle (30° per cut)



Outside Corner



- \* Not available in architectural film finishes

  ◆ Add the 2- or 3-digit color suffix to the item number when specifying or ordering (Example: AX2QSIS <u>H</u> <u>A</u>), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AX2QSIS <u>3</u> <u>H</u> <u>A</u>).

#### **ACCESSORIES**

	Item No.	Description	
	AXAC	Alignment Clip	(e)
		Sheet aluminum formed to fit into special trim channel bosses. Provides positive mechanical lock and screw-fastened connection to suspension members that intersect below the trim channel.	
	AX2HGC	Hanging Clip	6
		Sheet aluminum formed to fit into special trim channel bosses. Provides positive mechanical lock and screw-fastened connection to suspension members that intersect below the trim channel.	
	AXTBC	T-Bar Connection Clip	
<del>(M</del>		Galvanized sheet steel formed to fit into special trim channel bosses. Provides positive mechanical lock with factory-installed screw, screw-fastened connection to suspension members that intersect the trim channel.	
	7239	Adjustable Trim Clip	
		Makes Axiom® Classic Trim compatible with Architectural Specialties products that drop greater than 3/8" below the grid flange, such as MetalWorks™ Linear, MetalWorks Torsion Spring, or WoodWorks® Channeled.	
	AXSPLICE	Axiom Splice Plate	AXSPLICE
	AX4SPLICEB	Axiom Splice Plate	//.
		Galvanized sheet steel formed to fit into the trim channel bosses. Provides positive lock between abutting channels with factory-installed setscrews.	AX4SPLICEB

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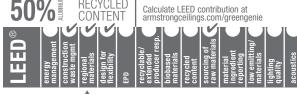


# AXIOM® Drywall Trim

One-piece or Two-piece straight & curved



SUSTAIN" High Performance Sustainable Ceiling Systems



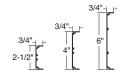
LOCATION DEPENDEN



This pre-engineered vertical trim solution for 5/8" drywall eliminates vertical framing and provides architectural detail.

#### **KEY SELECTION ATTRIBUTES**

- 2.5", 4", and 6" profile heights
- Axiom<sup>®</sup> trim is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today
- Integrated and pre-punched taping flange for drywall attachment
- Available in White, standard colors, and unfinished for field painting
- · Straight and curved options available
- Pre-engineered compatibility with 5/8" drywall



# MINIMUM BEND RADIUS FOR AXIOM ONE-PIECE TRIM

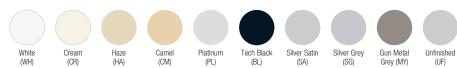
Inside: 2.5", 4", 6" – 24" Minimum Outside: 36" Minimum

#### MINIMUM BEND RADIUS FOR AXIOM TWO-PIECE TRIM

36" Minimum

COLORS Due to printing limitations, shade may vary from actual product.

#### Standard



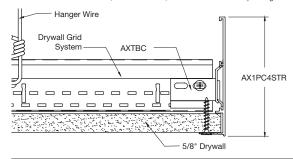
#### **VISUAL SELECTION**

Item No. ◆	Description	Dimensions
AXIOM® One-Piec	e Drywall Trim	
AX1PC2STR	2.5" One-Piece Straight Drywall Trim	120 x 3/4 x 2.5"
AX1PC2CUR	2.5" One-Piece Curved Drywall Trim	Vary x 3/4 x 2.5"
AX1PC4STR	4" One-Piece Straight Drywall Trim	120 x 3/4 x 4"
AX1PC4CUR	4" One-Piece Curved Drywall Trim	Vary x 3/4 x 4"
AX1PC6STR	6" One-Piece Straight Drywall Trim	120 x 3/4 x 6"
AX1PC6CUR	6" One-Piece Curved Drywall Trim	Vary x 3/4 x 6"

DETAILS	For more information, see submitta	CS-3528
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CAD drawings available at armstrongceilings.com/axiom

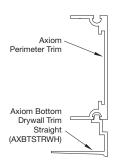
One-Piece Drywall Trim: Integrated and pre-punched taping flange for drywall attachment. Available in White, standard colors, and unfinished for field painting.



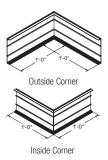
Item No. ◆	Description	Dimensions
AXIOM Two-Piece D	rywall Trim (used with AXIOM® Cla	ssic, see pg. 389)
AXBTSTR	Axiom Straight Drywall Bottom Trim	120 x 3/4 x 5/8"
AXBTCUR	Axiom Curved Drywall Bottom Trim	Vary x 3/4 x 5/8"

ullet Add the 2-digit color suffix to the item number when specifying or ordering (e.g., AX1PC2STR  $\underline{H}$   $\underline{A}$ )

Two-Piece Drywall Trim: Integrated and pre-punched taping flange for drywall attachment. Available in White, standard colors, and unfinished for field painting.



Axiom® factory-mitered inside and outside corner pieces are created to match your Axiom Trim channel order. These corners come as 2" – 12" long pieces that are assembled in the field for a clean mitered corner intersection.





# AXIOM® Glazing Channel

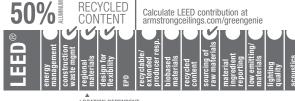
Trim for Glass Partitions straight

Declare

Living Building

Challenge Compliant





LOCATION DEPENDENT



Axiom® extruded aluminum Glazing Channel trim for 3/8" and 1/2" glass partition walls offers fully concealed integration with all Armstrong® acoustical and drywall ceiling systems for a clean installed visual so glass can disappear into the plenum.\*

#### **KEY SELECTION ATTRIBUTES**

- 5 trim profile options to coordinate with lay-in, Tegular and Vector® ceiling panels and drywall grid system
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Coordinated fit and finish ensures delivery of design intent
- · Seismic solution for category D, E, F installations
- Coordinates with Armstrong® ceiling and suspension systems, custom colors available
- 10-Year Limited Warranty, 30-Year System Warranty

#### COLORS





White (WH)

RAL® and Custom Colors Available

\* Interior Glass Partition installation is also addressed on Pg. 374 (Integrated Ceiling Solutions – Common Conditions)

#### **VISUAL SELECTION**

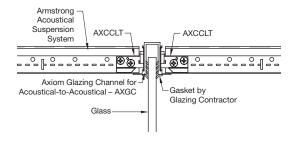
Item No.	Description	Dimensions	Profile
AXIOM® G	lazing Channel Trim		
AXGC	Acoustical-to-Acoustical	120 x 2-7/16 x 2"	13/16 3/4" 13/16" -2-3/8" -
AXGCS	Seismic Acoustical-to-Acoustical	120 x 3-1/4 x 2"	1-1/4" 1-1,
AXGCV	Vector Acoustical-to-Acoustical	120 x 2-3/8 x 2-1/2"	2-1/2" 13/16" 13/16" 13/16" -2-3/8" 1
AXGCAD	Acoustical-to-Drywall	120 x 2-1/2 x 2"	13/16" 3/4" 7/8"
AXGCD	Drywall-to-Drywall	120 x 2-1/2 x 2"	7/8" 7/8" 2-1/2"

NOTE: Bottom and side U-Channels for glass installation provided by glazing contractor

#### **ACCESSORIES**

Item No.	Description	Dimensions
AX4SPLICE	Splice Plate with Setscrews	_
AXCCLT	T-Bar Connector Twist Clip	_

CAD drawings available at armstrongceilings.com/axiom



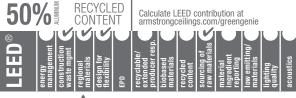
# AXIOM® for INTERLUDE®

Trim straight

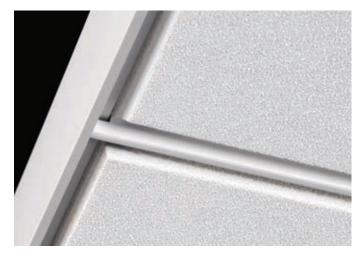
Declare

Living Building
Challenge Compliant

SUSTAIN'
High Performance
Sustainable
Ceiling Systems



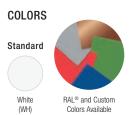
LOCATION DEPENDENT



# This pre-engineered trim allows the continuation of the Interlude® XL® HRC suspension system visual to the perimeter of the ceiling. KEY SELECTION ATTRIBUTES

- Used exclusively with Interlude® XL® HRC suspension system (see pgs. 359-360)
- Axiom<sup>®</sup> trim is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today
- Available in our most popular profile sizes (2", 4", and 6")
- New Interlude expansion sleeve (IES3) allows the unique Interlude visual to be extended to the perimeter
- Extruded aluminum trim provides more crisp edge detailing compared to conventional roll-formed steel systems
- Colors coordinate with Armstrong® ceiling and suspension systems; custom colors available

- Standard 90° factory-mitered outside and inside corners
- Recommended for use with full-size ceiling panels



NOTE: 360° paint finishes and custom colors available as special order.

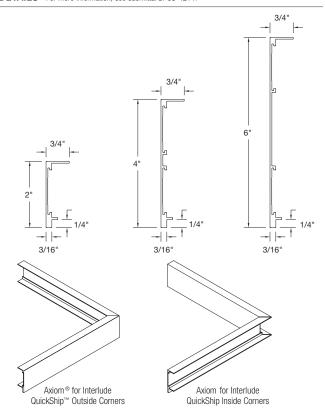
#### VISUAL SELECTION

VISUAL SELECTION				
Item No. ◆	Description	Dimensions		
AXIOM® for INTERLUDE® Trim				
AXLD2STR	Axiom for Interlude 2", Straight	120 x 3/16 x 2"		
AXLD4STR	Axiom for Interlude 4", Straight	120 x 3/16 x 4"		
AXLD6STR	Axiom for Interlude 6", Straight	120 x 3/16 x 6"		
AXIOM for INTE	RLUDE Pre-mitered Corners			
AXLD2QSOS	_ Axiom for Interlude 2", Outside Corner	12 x 3/16 x 2"		
AXLD2QSIS	Axiom for Interlude 2", Inside Corner	12 x 3/16 x 2"		
AXLD4QSOS	_ Axiom for Interlude 4", Outside Corner	12 x 3/16 x 4"		
AXLD4QSIS	Axiom for Interlude 4", Inside Corner	12 x 3/16 x 4"		
AXLD6QSOS	Axiom for Interlude 6", Outside Corner	12 x 3/16 x 6"		
AXLD6QSIS	Axiom for Interlude 6", Inside Corner	12 x 3/16 x 6"		
Accessories				
AX4SPLICEB	Splice Plate with Setscrews	3/4 x 3/16 x 6"		
AXCCLT	T-Bar Connector Twist Clip	_		
IES3	Interlude Expansion Sleeve	_		

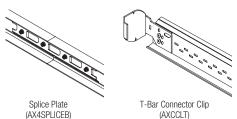
◆ Add the 2-digit color suffix to the item number when specifying or ordering (Example: AXLD6STR <u>W</u> <u>H</u>), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AXLD6STR <u>3</u> <u>W</u> <u>H</u>).

NOTE: Clips and splice plates are unpainted. Touch-up paint available upon request for clips and splice plates used with standard colors.

#### **DETAILS** For more information, see submittal BPCS-4211.



#### **ACCESSORIES**



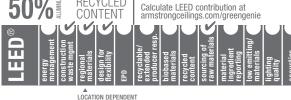
TechLine 877 276-7876 armstrongceilings.com/axiom



# AXIOM® Knife Edge®

Trim straight

Declare<sup>s</sup> Livina Buildina Challenge Compliant High Performance Sustainable Ceiling Systems

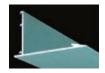




This trim is a unique, refined trim alternative compared to traditional, 90-degree vertical trims.

#### **KEY SELECTION ATTRIBUTES**

- Adjustable Trim Clip (Item 7239) makes Knife Edge Trim compatible with WoodWorks<sup>®</sup> and MetalWorks<sup>™</sup> panels from 0" to 3-3/4" thick
- · Unique profile provides a refined alternative
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today Two profiles available:
- Axiom® Knife Edge® for traditional acoustical lay-in and Tegular panels, as well as drywall
- Axiom® Knife Edge® for Vector® is specifically made to work with the unique Vector edge
- · Extruded aluminum trim provides more crispeedge detailing compared to conventional roll-formed steel systems
- Compatible with Armstrong® Suspension Systems and Drywall Grid Systems
- Colors coordinate with Armstrong ceiling and grid systems; custom colors available
- Standard 90° factory bonded corners



Colorations® colors

COLORS Due to printing limitations, shade may vary from actual product.

#### Standard















(SG)

BLIZZARD WHITE FINISH



Grey (MY)



Colors Available

NOTE: 360° paint finishes and custom colors available as special order

#### ARCHITECTURAL FILM FINISHES (white or black background)



Anodized (BA)



Bronze (BB)



Metal (BG)



Metal (FG)



Blizzard White (ZW)

(SA)

NOTE: Blizzard White finish available on select Axiom® Classic, Knife Edge®, and Vector® trim profiles

COLORATIONS® COLORS (partial list)

(SK)





(TG)



(BK)



Made-to-order Sherwin-Williams® Colors Available

NOTE: White is standard color for all AXIOM products.

# VISUAL SELECTION

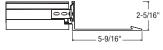
Item No. ◆	Description	Dimensions
AXIOM® Knife Ed		
AXKE2STR	Straight	120 x 6-3/16 x 2-1/2"
AXKE90IC*	Inside 90° Corner	12 x 6-3/16 x 2-1/2"
AXKE900C*	Outside 90° Corner	12 x 6-3/16 x 2-1/2"
AXKE5STR***	Straight	120 x 6-3/16 x 5"
AXKE5IC***	Inside 90° Corner	12 x 6-3/16 x 5"
AXKE50C***	Outside 90° Corner	12 x 6-3/16 x 5"
AXIOM Knife Edg	ge for Vector®*	
AXKEVE2STR	Vector – Straight	120 x 5-9/16 x 2-5/16"
AXKEVE90IC*	_ Inside 90° Corner	12 x 5-9/16 x 2-5/16"
AXKEVE900C*	_ Outside 90° Corner	12 x 5-9/16 x 2-5/16"
Accessories		
AX2HGC	Hanging Clip	_
AXTBC	T-Bar Connector Clip	_
AXVTBC	Vector T-Bar Connector Clip	-
7239**	Adjustable Trim Clip	_
AX4SPLICE	Splice Clip with Setscrews	_
AXKEALIGN	Alignment Clip	_
AXSPTHDC	Trim Hold-Down Clip	_
AXDWT	Drywall Trim	120 x 1-3/4"

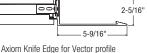
- ◆ Add the 2-digit color suffix to the item number when specifying or ordering (Example: AX2STR <u>H A)</u>, Add an extra digit "3" before the color suffix if paint is required inside and outside of trin (Example: AXKE2STR 3 H A), use extra suffix W-white or B-black before color suffix when ordering film to designate the background color (Example: AXKE2STR B B B).

  \* Axiom Knife Edge must use factory corners. \*\* Recommended with 5" Knife Edge. Clip could be visible with 2" trim. \*\*\* Only available in White.

**DETAILS** For more information, see submittal BPCS-3080.

CAD drawings available on armstrongceilings.com/axiom









Axiom Knife Edge (AX2HGC)

Axiom Knife Edge Alignment Clip (AXKEALIGN)



Axiom Knife Edge with Drywall (Use with AXVTBC and AXDWT)

#### **Factory-Bonded corners**



Axiom Knife Edge profile



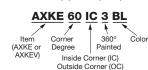


Axiom Knife Edge Factory-Bonded Outside Corner (AXKE900C)

#### Factory corner configurations available 60-135° (upon request)







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BPCS-3528-517

# AXIOM® Paired

For AXIOM Classic or AXIOM Vector® Straight and Curved Suspension Systems



LOCATION DEPENDENT



Create a dramatic contemporary design aesthetic using Axiom® Classic or Vector® trim profiles.

#### **KEY SELECTION ATTRIBUTES**

- · Unique system allows tandem sections of curved or straight Axiom trim to run parallel with a 5/8" or 1-3/8" reveal between profiles
- · Design option to accent open plenum spaces or below acoustical ceilings
- Extruded aluminum provides crisp profiles, smooth connections, and excellent corrosion resistance compared to steel systems
- · Colors coordinate with Armstrong® ceiling and suspension systems; custom colors available
- Suspended from structure above or below acoustical ceiling
- Accessories available to organize placement of lights

Designed for 2", 4", 6", 8", 10", or 12" AXIOM Classic and 2", 4", 6", or 8" AXIOM Vector profiles

Choose your profile first

- Axiom Classic Pgs. 415-416
- Axiom Vector Pg. 426

COLORS Due to printing limitations, shade may vary from actual product.

#### Standard



#### ARCHITECTURAL FILM FINISHES (white or black background)



Brushed









NOTE: White is standard color for all AXIOM products

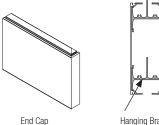
#### VISUAL SELECTION

Item No. ◆	Description	
AXIOM Paired En	d Caps	
AX2WEC Welded End Cap for 2" Axiom - Classic		
AX4WEC	Welded End Cap for 4" Axiom — Classic	
AX6WEC	Welded End Cap for 6" Axiom — Classic	
AX8WEC	Welded End Cap for 8" Axiom — Classic	
AX10WEC	Welded End Cap for 10" Axiom — Classic	
AX12WEC	Welded End Cap for 12" Axiom - Classic	
AXVE2WEC	Welded End Cap for 2" Axiom – Vector	
AXVE4WEC	Welded End Cap for 4" Axiom – Vector	
AXVE6WEC	Welded End Cap for 6" Axiom – Vector	
Accessories		
AX4SPLICEB	Splice Plate with Setscrews	
AXPAP	Adapter Plate for Electrical Box	
AXPHANG58	Hanging Bracket for 5/8" reveal	
AXPHANG118	Hanging Bracket for 1-3/8" reveal	

<sup>◆</sup> Add the 2-letter color suffix to the item number when specifying or ordering (Example: AX2WEC B L)

#### **DETAILS** For more information, see submittal BPCS-3686.

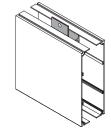
CAD drawings available on armstrongceilings.com/axiom



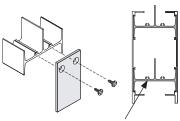




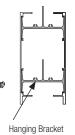
for 5/8" reveal (AXPHANG58)

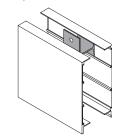


Axiom Paired Classic available in 2", 4", 6", 8", 10", or 12" profiles



Adapter Plate to mount an electrical box (AXPAP)





Axiom Paired Vector available in 2", 4", or 6" profiles

NOTE: For all 4", 6", 8", 10", or 12" profiles, stack two Hanging Brackets on top of each other and place every 4' on center. Paired sections less than 4' long require two sets of Hanging Brackets per section.

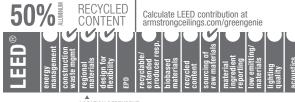
for 1-3/8" reveal (AXPHANG118)



# AXIOM® Profiled

Trim straight

Declare<sup>s™</sup> Livina Buildina Challenge Compliant High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT



This pre-engineered trim offers four dramatic profiles that coordinate with acoustical or drywall ceilings for decorative finished visual.

#### **KEY SELECTION ATTRIBUTES**

- · Extruded aluminum provides crisp edge detailing and excellent corrosion resistance
- Axiom<sup>®</sup> trim is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance
- · Finely articulated drywall trim with beaded edge integrates with all trim profiles to provide a pre-engineered solution for drywall transitions
- · Ultimate design flexibility four decorative profiles; Convex, Concave, Cove, and Crown
- Colors coordinate with Armstrong® ceiling and suspension systems; custom colors available

#### COLORATIONS® COLORS

#### Standard White Cream Haze Camel Platinum (HA) (WH) (CM) (CR) (PL)

Silver Grey

COLORS Due to printing limitations, shade may vary from actual product.

Gun Metal



Made-to-order Sherwin-Williams® Colors Available

#### VISUAL SELECTION

Silver Satin

Tech Black

Item No. ◆	Description	Dimensions
AXIOM Profiled Trim		
AXCOVE	Cove	120 x 3-1/2 x 3-1/2"
AXCRWN	Crown	12 x 3 x 3-1/2"
AXCNVX	Convex	12 x 5-1/4 x 2-1/2"
AXCNCV	Concave	120 x 5-1/4 x 2-1/2"
AXIOM Profiled C	orners	
AXCOVEIS*	Cove Inside 90° Corner	12 x 3-1/2 x 3-1/2"
AXCOVEOS*	Cove Outside 90° Corner	12 x 3-1/2 x 3-1/2"
AXCRWNIS*	Crown Inside 90° Corner	12 x 3 x 3-1/2"
AXCRWNOS*	Crown Outside 90° Corner	120 x 5-1/4 x 2-1/2"
AXCNVXIS*	Convex Inside 90° Corner	12 x 5-1/4 x 2-1/2"
AXCNVXOS*	Convex Outside 90° Corner	12 x 5-1/4 x 2-1/2"
AXCNCVIS*	Concave Inside 90° Corner	12 x 5-1/4 x 2-1/2"
AXCNCVOS*	Concave Outside 90° Corner	12 x 5-1/4 x 2-1/2"
Accessories		
AXDWT	Profiled AXIOM Drywall Taping Flange	120 x 1-3/4"
AXAC	Alignment Hanging Clip	_
AXTBC	T-Bar Connector Clip	_
AX4SPLICEB	Splice Plate with Setscrews	_
AXALIGN	Profiled Alignment Clip	_
AXSPTHDC	Trim Hold Down Clip	_
A		

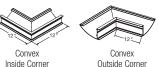
<sup>◆</sup> Add the 2-letter color suffix to the item number when specifying or ordering (Example: AXCOVE HA)

#### **DETAILS** For more information, see submittal BPCS-3101.

CAD drawings available on armstrongceilings.com/axiom



#### Factory-bonded corners



60° Corner

Factory corner configurations

available 60-135° 135° Corner

**AXCOVE 60 IC 3 BL** 

360° Degree Inside Corner (IC) Outside Corner (OC)



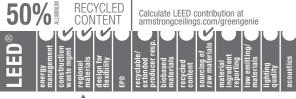
<sup>\*</sup> Axiom Profiled trim must use factory corners.

# AXIOM® Soft Edge

straight & curved







LOCATION DEPENDENT

Soft Corner (L) and Ripple (R) trim with Optima® Vector® panels Inset: Convex This soft-edge factory-finished trim is available in three profile types for acoustical clouds.

#### **KEY SELECTION ATTRIBUTES**

- · Profile options: Ripple Soft Corner
- Axiom<sup>®</sup> trim is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today
- · Incorporates the sophisticated grid-hiding visual of a Vector® ceiling with a similar 1/4" reveal along the trim
- Design flexibility for straight and curved applications

	FOR AXIOM® Soft Edge		
Outside Curve Inside Curv (face out) (face in)			
Soft Corner	10'	4'	
Ripple	5'	4'	
Convex	cannot curve	cannot curve	

MINIMIIM BEND BADILIS

#### COLORS Due to printing limitations, shade may vary from actual product.

#### Standard



NOTE: 360° paint finishes and custom colors available as special order

RAL® & Custom Colors Available

#### COLORATIONS® COLORS



Refer to BPCS-3996 Axiom Color Chart for new Colorations® colors, available on coordinating Calla® ceiling panels, Suprafine® 9/16" suspension system,

Made-to-order Sherwin-Williams® Colors Available

#### **VISUAL SELECTION**

Item No. ◆	Description	Dimensions		
AXIOM Soft Edge Ripple				
AXSER2STR	2-1/2" Straight	120 x 3/4 x 2-1/2"		
AXSER2CUR	2-1/2" Curved	Vary x 3/4 x 2-1/2"		
AXSER4STR	4" Straight	120 x 3/4 x 4"		
AXSER4CUR	4" Curved	Vary x 3/4 x 4"		
AXSER8STR	8" Straight	120 x 3/4 x 8"		
AXSER8CUR	8" Curved	Vary x 3/4 x 8"		
AXIOM Soft Edge R	ipple Corners			
AXSER2INCNR	2-1/2" Straight	12 x 3/4 x 2-1/2"		
AXSER2OCCNR	2-1/2" Curved	12 x 3/4 x 2-1/2"		
AXSER4INCNR	4" Straight	12 x 3/4 x 4"		
AXSER40CCNR	4" Curved	12 x 3/4 x 4"		
AXSER8INCNR	8" Straight	12 x 3/4 x 8"		
AXSER80CCNR	8" Curved	12 x 3/4 x 8"		
AXIOM Soft Edge Soft Corners				
AXSES2STR	2-1/2" Straight	120 x 3/4 x 2-1/2"		
AXSES2CUR	2-1/2" Curved	Vary x 3/4 x 2-1/2"		
AXSES4STR	4" Straight	120 x 3/4 x 4"		
AXSES4CUR	4" Curved	Vary x 3/4 x 4"		

Item No. ◆	Description	Dimensions
AXIOM Soft Edge S	Soft Corner Corners	
AXSES2INCNR	2-1/2" Inside Corner	12 x 3/4 x 2-1/2"
AXSES20SCNR	2-1/2" Outside Corner	12 x 3/4 x 2-1/2"
AXSEC4INCNR	4" Inside Corner	12 x 3/4 x 4"
AXSEC40SCNR	4" Outside Corner	12 x 3/4 x 4"
AXIOM Soft Edge (	Convex	
AXSEC2STR	2-1/2" Straight	120 x 3/4 x 2-1/2"
AXSEC4STR	4" Straight	120 x 3/4 x 4"
AXIOM Soft Edge (	Convex Corners	
AXSEC2INCNR	2-1/2" Inside Corner	12 x 3/4 x 2-1/2"
AXSEC2OSCNR	2-1/2" Outside Corner	12 x 3/4 x 2-1/2"
AXSEC4INCNR	4" Inside Corner	12 x 3/4 x 4"
AXSEC40SCNR	4" Outside Corner	12 x 3/4 x 4"
Accessories		
AXTBC	T-Bar Connector Clip	_
AX4SPLICEB	Splice Plate with Setscrews	_
Add the Olletter time on	d color suffix to the item number when ance	if the an endertee

 Add the 3-letter type and color suffix to the item number when specifying or ordering (e.g., AXSER2STR <u>H</u> <u>A</u>), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AXSER2STR 3 H A)

**DETAILS** For more information, see submittal BPCS-3879. CAD drawings available on armstrongceilings.com/axiom





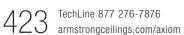




Axiom Soft Edge Ripple Axiom Soft Edge Soft Corner Axiom Soft Edge

Convex



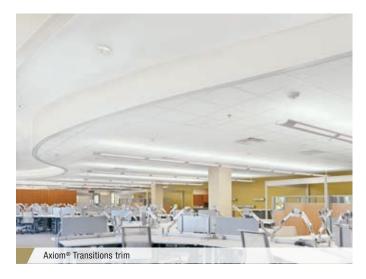






# **AXIOM®** Transitions

# straight & curved



Fast and easy way to create crisp transitions between ceiling planes regardless of material type.

#### **KEY SELECTION ATTRIBUTES**

- · Axiom® Transitions are made of an aluminum extrusion to create a smooth transition between drywall and suspended ceilings (mineral fiber, metal, or wood)
- Axiom trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Extruded aluminum trim provides more crisp edge detailing compared to convention rollformed steel systems
- Compatible with Armstrong® suspension systems and Drywall Grid Systems
- Acoustical-to-Drywall Transitions are available straight and curved for perfect fit and finish every time
- · Axiom® Transitions Vector® is available straight only for use with full size Vector panels (field cutting Vector panels can be avoided)
- · Axiom® Transitions Elevation Change accommodates Acoustical-to-Acoustical, Acoustical to-Drywall, Drywall-to-Acoustical, Drywall-to-Drywall height transitions of 2", 4", 6", 8", and 10"
- · Minimum Bend Radius for Transitions -Elevation Change 2", 4", 6", and 8" is 48",
- Minimum Bend Radius for Transitions -No Elevation Change (see BPCS-3530 for details on our web site)
- Ceiling Transition Solutions are also addressed on Pgs. 367-369 (Integrated Ceiling Solutions - Common Conditions)

**COLORS** Due to printing limitations, shade may vary from actual product.

#### Standard





















Colors Available

NOTE: Colors available on Transitions (elevation change) 360° paint finishes and custom colors available as special order

#### **VISUAL SELECTION**

	Item No.	Description	Dimensions
	AXIOM Transitions (no elevation change)		
	AXTRVESTR	Straight Transition for Vector	120 x 2-9/16 x 1-11/16"
new	AXTR7901STR	9/16" Shadow Reveal Transition Molding, Straight	120 x 2-9/16 x 1-13/16"
Sew.	AXTR7901CUR	9/16" Shadow Reveal Transition Molding, Curved	Vary x 2-9/16 x 1-13/16"
( <u>a</u> )( <u>a</u> )( <u>a</u> )( <u>a</u> )	AXTR7902STR	15/16" Shadow Reveal Transition Molding, Straight	120 x 2-9/16 x 2-3/16"
	AXTR7902CUR	15/16" Shadow Reveal Transition Molding, Curved	Vary x 2-9/16 x 2-3/16"
ile y	AXTR7904STR	15/16" Flush Transition Molding, Straight	120 x 2-9/16 x 1-3/4"
few	AXTR7904CUR	15/16" Flush Transition Molding, Curved	Vary x 2-9/16 x 1-3/4"
new	AXTR7905STR	9/16" Flush Transition Molding, Straight	120 x 2-9/16 x 1-3/8"
new	AXTR7905CUR	9/16" Flush Transition Molding, Curved	Vary x 2-9/16 x 1-3/8"
-		"F" Type Molding, Straight	120 x 1-13/16 x 1-11/16"
new		"F" Type Molding, Curved	Vary x 1-13/16 x 1-11/16"
	AXIOM Transitions (elevation change)		
	AXTR7907STR	9/16" Tegular Transition Molding, Straight	120 x 2-9/16 x 1-11/16"
	AXTR7907CUR	9/16" Tegular Transition Molding, Curved	Vary x 2-9/16 x 1-11/16"
	AXTR7908STR	15/16" Tegular Transition Molding, Straight	120 x 2-9/16 x 1-13/16"
	AXTR7908CUR	15/16" Tegular Transition Molding, Curved	Vary x 2-9/16 x 1-13/16"
	AXTR7909STR	15/16" Tegular Transition Molding — 1" Height, Straight	120 x 2-13/16 x 1-11/16"
	AXTR7909CUR	15/16" Tegular Transition Molding — 1" Height, Curved	Vary x 2-13/16 x 1-11/16"
	AXTR7910STR	9/16" Tegular Transition Molding – 1" Height, Straight	120 x 2-13/16 x 1-3/8"
	AXTR7910CUR	9/16" Tegular Transition Molding — 1" Height, Curved	Vary x 2-13/16 x 1-3/8"

1-1/2" Acoustical Double-sided Connection, Straight

1-1/2" Acoustical Double-sided Connection, Curved

#### MINIMUM BEND RADIUS:

AX15DSCSTR

AX15DSCCUR

Profile: AXTR7901 • Inside Curve - 48", Outside Curve - 120"

Profiles: AXTR7902, AXTR7904, AXTR7905 • Inside Curve – 96", Outside Curve – 600" Profiles: AXTR7906, AXTR7907, AXTR7908, AXTR7909, AXTR7910 • Inside and Outside Curve – 48"

Profile: AX15DSC • Inside and Outside Curve – 60"



120 x 1-15/16 x 1-1/2"

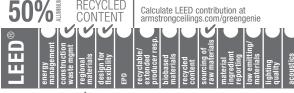
Vary x 1-15/16 x 1-1/2"

# **AXIOM®** Transitions

straight & curved

Declare<sup>sм</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems

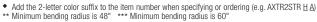


LOCATION DEPENDENT

#### VISUAL SELECTION continued

#### AXIOM Transitions (elevation change)

						_
Item No. ◆	Description	Dimensions (Inches)				
AXTR2STR	2" Straight Transition	120 x 2 x 1-1/2"				
AXTR2CUR**	2" Curved Transition	Vary x 2 x 1-1/2"				
AXTR4STR	4" Straight Transition	120 x 4 x 1-1/2"				ন
AXTR4CUR**	4" Curved Transition	Vary x 4 x 1-1/2"				
AXTR6STR	6" Straight Transition	120 x 6 x 1-1/2"		1		þ
AXTR6CUR**	6" Curved Transition	Vary x 6 x 1-1/2"				ļ.
AXTR8STR	8" Straight Transition	120 x 8 x 1-1/2"	1		6"	
AXTR8CUR**	8" Curved Transition	Vary x 8 x 1-1/2"		4"		
AXTR10STR	10" Straight Transition	120 x 10 x 1-1/2"	2"	Ī		ì
AXTR10CUR***	10" Curved Transition	Vary x 10 x 1-1/2"	<u> </u>	<u> </u>	<u> </u>	_



#### **AXIOM Transitions Corners**

AXTR2QSOS	2" Transition Outside Corner	12 x 2 x 1-1/2"
AXTR4QSIS	4" Transition Inside Corner	12 x 4 x 1-1/2"
AXTR4QSOS	4" Transition Outside Corner	12 x 4 x 1-1/2"
AXTR6QSIS	6" Transition Inside Corner	12 x 6 x 1-1/2"
AXTR6QSOS	6" Transition Outside Corner	12 x 6 x 1-1/2"
AXTR8QSIS	8" Transition Inside Corner	12 x 8 x 1-1/2"
AXTR8QSOS	8" Transition Outside Corner	12 x 8 x 1-1/2"
AXTR10QSIS	10" Transition Inside Corner	12 x 10 x 1-1/2"
AXTR10QSOS	10" Transition Outside Corner	12 x 10 x 1-1/2"



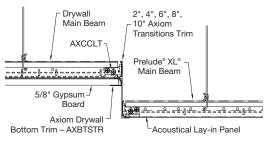
Inside 90° AXTR10QSIS Corner

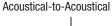
Outside 90° AXTR6QSOS Corner

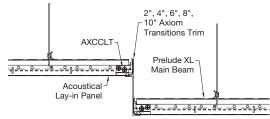
Axiom® pre-mitered corners are field-assembled



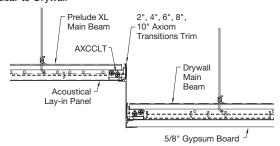
#### Drywall-to-Acoustical



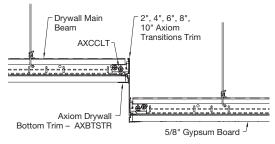




#### Acoustical-to-Drywall



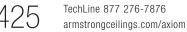
#### Drywall-to-Drywall



#### **ACCESSORIES**

Item Number	Description	Dimensions	
AX4SPLICEB	Splice Plate with Setscrews	_	
AXTBC	T-Bar Connector Clip	_	
AXCCLT	T-Bar Connector Twist Clip	_	
AXBTSTR	Axiom Straight Drywall Bottom Trim	<del>_</del>	
7239	Adjustable Trim Clip***	_	

<sup>\*\*\*</sup> Not to be used with wood or metal panels that drop below grid by greater than 3/8" - Only compatible with Transitions with no elevation change.





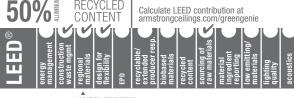


# AXIOM® Vector®

straight & curved

Declare<sup>s</sup><sup>™</sup> Livina Buildina Challenge Compliant

High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT



This trim coordinates perfectly with Armstrong® Vector® ceiling panels to mimic the 1/4" reveal with a narrow vertical fin profile.

#### **KEY SELECTION ATTRIBUTES**

- · Incorporates the sophisticated grid-hiding visual of a Vector ceiling with a perimeter
- Axiom<sup>®</sup> trim is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today
- · Recommended for use with full-size Vector ceiling panels; preserves factory-cut Vector edge detail
- Standard 90° factory-mitered inside corner and outside corner posts available
- Colors coordinate with Armstrong® ceiling and grid systems; custom colors available
- Extruded aluminum trim provides more crisp edge detailing compared to conventional roll-formed steel systems
- · Compatible with Armstrong® exposed suspension systems and Drywall Grid Systems
- · Custom slotting, perforating, and cutouts available

COLORS Due to printing limitations, shade may vary from actual product.

#### Standard





















Gun Metal



RAL® & Custom Colors Available

NOTE: 360° paint finishes and custom colors available as special order

#### ARCHITECTURAL FILM FINISHES (white or black background)



Anodized (BA)



Bronze (BB)



Metal (BG)



Metal (EG)



Grev (MG)

#### COLORATIONS® COLORS (partial list)



(WH)



(SK)



(BK)



Made-to-order Sherwin-Williams®

NOTE: White is standard color for all AXIOM products

# **BLIZZARD WHITE FINISH**

Blizzard White (ZW)

NOTE: Blizzard White finish available on select Axiom® Classic, Knife Edge®, and Vector® trim profiles

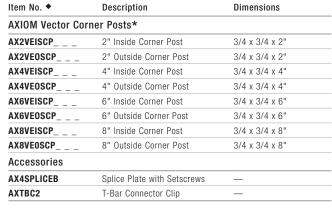
> Refer to BPCS-3996 Axiom Color Chart for new Colorations® colors, available on coordinating Calla® ceiling panels, Suprafine® 9/16" suspension system, and Axiom® Vector® trim.

(TG)

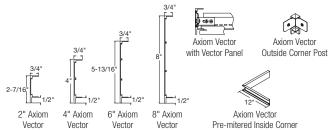
#### VISUAL SELECTION

Item No. ◆	Description	Dimensions
AXIOM Vector		
AX2VESTR	2" Straight	120 x 3/4 x 2"
AX2VECUR	2" Curved	Vary x 3/4 x 2"
AX4VESTR	4" Straight	120 x 3/4 x 4"
AX4VECUR	4" Curved	Vary x 3/4 x 4"
AX6VESTR	6" Straight	120 x 3/4 x 6"
AX6VECUR	6" Curved	Vary x 3/4 x 6"
AX8VESTR	8" Straight	120 x 3/4 x 8"
AX8VECUR	8" Curved	Vary x 3/4 x 8"
AXIOM Vector Pro	e-mitered Corners	
AX2VEQSIS	2" Inside Corner	12 x 3/4 x 2"
AX2VEQSOS	2" Outside Corner	12 x 3/4 x 2"
AX4VEQSIS	4" Inside Corner	12 x 3/4 x 4"
AX4VEQSOS	4" Outside Corner	12 x 3/4 x 4"
AX6VEQSIS	6" Inside Corner	12 x 3/4 x 6"
AX6VEQSOS	6" Outside Corner	12 x 3/4 x 6"
AX8VEQSIS	8" Inside Corner	12 x 3/4 x 8"
AX8VEQSOS	8" Outside Corner	12 x 3/4 x 8"

- ◆ Add the 3-letter type and color suffix to the item number when specifying or ordering (Example: AX8VESTR HA), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AX8VESTR 3 H A)
- \* Not available in architectural film finishes

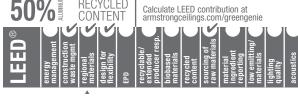


VISUAL DETAILS CAD drawings available on armstrongceilings.com/axiom



# AXIOM® Wall Moldings & Column Rings

straight & curved



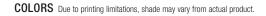
LOCATION DEPENDENT

This extruded aluminum trim provides crisp-edge detailing compared to conventional roll-formed steel systems.

#### **KEY SELECTION ATTRIBUTES**

- . 5 molding profiles available straight or curved, to be used as wall moldings or column rings
- · Compatible with Armstrong® acoustical and drywall suspension systems

MINIMUM BEND RADIUS				
	Wall Moldings (Radius)		Column Rings (Diameter)	
	Outside Curve	Inside Curve	Inside Curve	
AXMCUR	24"	24"	48"	
AXM34CUR	6"	6"	12"	
AXM5050CUR	8"	18"	36"	
AXM5075CUR	8"	14"	28"	
AXM7575CUR	9"	18"	36"	



#### COLORATIONS™ COLORS (partial list)

# Standard





NOTE: 360° Painted finishes and custom colors available as special order

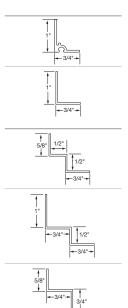


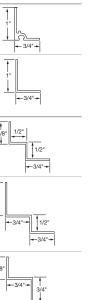
Refer to BPCS-3996 Axiom Color Chart for new Colorations® colors, available on coordinating Calla® ceiling panels, Suprafine® 9/16" suspension system, and Axiom® Wall Moldings and Column Rings.

#### **VISUAL SELECTION**

Item No. ◆	Description	Dimensions Length x A x B
Angle Molding		
AXMSTR	Straight Wall Molding - with Axiom Reveal	120" x 1" x 3/4"
AXMCUR	Curved Wall Molding/Column Ring with Axiom Reveal	120" x 1" x 3/4"
AXM34STR	Straight Wall Molding - Shadow	120" x 1" x 3/4"
AXM34CUR	Curved Wall Molding/Column Ring Shadow	120" x 1" x 3/4"
<b>Shadow Molding</b>		
AXM5050STR	Straight Wall Molding - Shadow	120" x 3/4" x 5/8" x 1/2" x 1/2"
AXM5050CUR	Curved Wall Molding/Column Ring Shadow	120" x 3/4" x 5/8" x 1/2" x 1/2"
AXM5075STR	Straight Wall Molding - Shadow	120" x 1" x 3/4" x 1/2" x 3/4"
AXM5075CUR	Curved Wall Molding/Column Ring Shadow	120" x 1" x 3/4" x 1/2" x 3/4"
AXM7575STR	Straight Wall Molding - Shadow	120" x 3/4" x 5/8" x 3/4" x 3/4"
AXM7575CUR	Curved Wall Molding/Column Ring Shadow	120" x 3/4" x 5/8" x 3/4" x 3/4"

**DETAILS** For more information, see submittal BPCS-4473.



















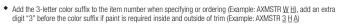
AXM5075CUR

AXM5075STR

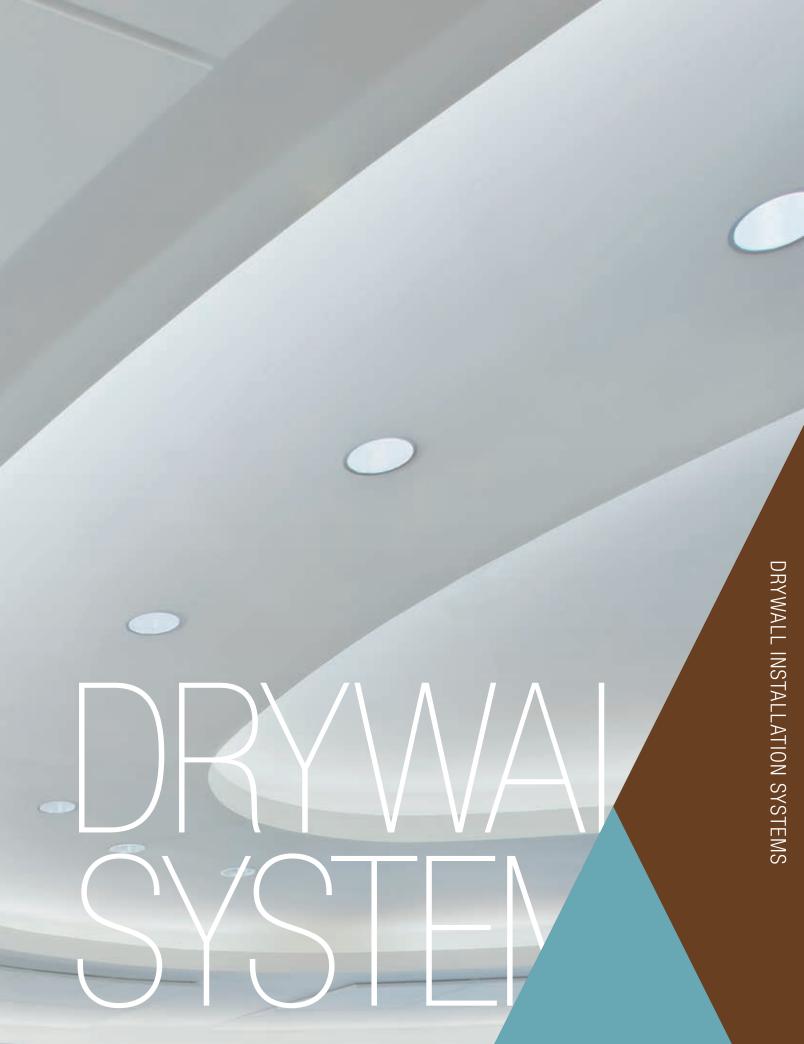


AXM7575STR

AXM7575CUR







# DRYWALL INSTALLATION SYSTEMS At-a-Glance



lcons are used throughout the catalog to help you quickly identify key product

**Humidity/Corrosion Resistance** Humiguard® Plus recommended for areas subject to high humidity up to, but not including, standing water.

helping to bring your one-of-a-kind ideas to life

#### DRYWALL SUSPENSION AND FRAMING SYSTEMS



**DRYWALL Grid Systems - Flat Ceilings** 

A B I WEF S

Pg. 430



DRYWALL Grid Systems - Curved Ceilings

A B I DEF S

Pg. 431



**ICON KEY** 

attributes.



#### **Chemical Corrosion**



G90 hot-dipped galvanized coating available for exterior applications.

#### Seismic



#### Sustainability



Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards



QUIKSTIX™ Drywall Grid System with Locking Pocket Main Beams

Pg. 433





QUIKSTIX<sup>™</sup> Drywall Grid System for Soffits





SHORTSPAN® Drywall Framing System

A B THEF







## **DRYWALL Grid Systems**

## Flat and Curved Ceiling Installation Systems



Pre-engineered drywall ceiling suspension system that is three times faster to install than traditional track and channel framing.\*

#### **KEY SELECTION ATTRIBUTES**

- · Some components available in High Recycled Content (HRC): Total Recycled Content 61%, Post-consumer 53%, Pre-consumer 8%
- Non-HRC items have 30% recycled content
- PeakForm® profile increases strength and stability for improved performance during installation



- ScrewStop™ reverse hem prevents screw spinoff on 1-1/2" wide face
- · Rotary-stitched during manufacture by a patented method for additional torsional strength and extra stability during installation
- · HD8906 (HRC) main beams and cross tees with extra routings for Type F light fixtures
- · Minimum G40 hot dipped galvanized coating, per ASTM C645; provides superior corrosion resistance

COLOR Due to printing limitations, shade may vary from actual product.



- · Wind uplift construction available
- XL® (staked-on end detail) cross tees provide secure locked connection; fast and easy to install
- All drywall components minimum .018" steel thickness; complies with ASTM C645
- Accommodates stud, track, hat channel, wood, or other supplemental framing
- Fire Guard<sup>™</sup> components meet broad range of UL design assemblies (XL7936G90 is not fire rated)
- · 10-Year Limited System Warranty
- 30-Year Limited Ceiling Systems Warranty
- · G90 hot dipped galvanized coating is available for exterior applications (HD8906G90, XL8945PG90, XL8947PG90, XL7936G90)

\* Drywall Ceilings Solutions are also addressed on Pg. 373 (Integrated Ceiling Solutions - Common Conditions)

PACKAGING

## VISUAL SELECTION

VIOUAL	. OLLLUTION							170	Maina
Face Profile	Item No.	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing Lbs./Lin. Ft.			Pcs/ Ctn	Lin. Ft./ Ctn
Drywal	l Grid Main B	eams (Red Numbers are Fire Guard™ Ite	ms)		2 Ft.	3 Ft.	4 Ft.		
1-1/2"	HD8906HRC HD8906G90 HD8906 HD8906IIC	12' HD Drywall Main Beam (For Type F Light Fixtures)	42 routs – starting 2-1/4" from each end	144 x 1-1/2 x 1-11/16"	95.5	43.19	18.66	12	144
1-1/2"	HD890610	10' HD Drywall Main Beam (For Type F Light Fixtures)	51 routs – starting 2-1/4" from each end	120 x 1-1/2 x 1-11/16"	95.5	43.19	18.66	12	120
1-1/2"	SP135	135" HD Stucco Main Beam G90	13.5" O.C.	135 x 1-1/2 x 1-11/16"	_	43.19	18.66	12	130
Drywal	l Grid Cross 1	[ees							
1-1/2"	XL8965 XL8965HRC	6' Drywall Cross Tee	6 routs – starting 24" from each end	72 x 1-1/2 x 1-1/2"	6'	6.87	_	36	216
1-1/2"	XL8947P XL8947G90	50" Drywall Cross Tee	8 routs – starting 10" from each end	50 x 1-1/2 x 1-1/2"	50"	19.5	_	36	150
1-1/2"	XL8945P XL8945PHRC XL8945G90	4' Drywall Cross Tee	9 routs – center route and starting 10" from each end	48 x 1-1/2 x 1-1/2"	4'	22.5	-	36	144
1-1/2"	XL7936G90	3' Drywall Cross Tee	none	36 x 1-1/2 x 1-1/2"	3'	50.0	_	38	108
1-1/2"	XL8926G90 XL8926	2' Cross Tee	3 routs – center route and 10" from each end	24 x 1-1/2 x 1-1/2"	2'	90.25	_	36	78
* NOTE: All	load test data based	on flat installation per ASTM C635.	ASTM Class II	D - Intermediate-duty HD - Heavy-duty	LD - Lig	ht-duty			

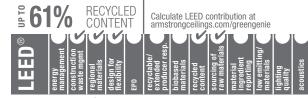
## **DRYWALL Grid Systems**

Flat Ceilings



Challenge Compliant

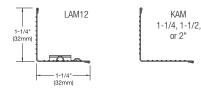
High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT

VISUAL S	ELECTION			PACK	AGING
Face Profile	Item No.	Description	Dimensions	Pcs./ Ctn	Lin. Ft./ Ctn.
Knurled A	ngle Molding				
1-1/4"	KAM10	10' Knurled Angle Molding (0.18mil)	120 x 1-1/4 x 1-1/4"	10	100
1-1/4"	KAM12/ KAM12HRC	12' Knurled Angle Molding (0.18mil)	144 x 1-1/4 x 1-1/4"	10	120
1-1/4"	KAM12G90	12' Knurled Angle Molding (0.18mil)	144 x 1-1/4 x 1-1/4"	10	120
1-1/2"	KAM1510	10' Knurled Angle Molding (0.18mil)	120 x 1-1/2 x 1-1/2"	10	100
1-1/2"	KAM1512	12' Knurled Angle Molding (0.18mil)	144 x 1-1/2 x 1-1/2"	10	120
1-1/2"	KAM151020E	10' Knurled Angle Molding (0.28mil)	120 x 1-1/2 x 1-1/2"	10	100
1-1/2"	KAM151020	10' Knurled Angle Molding (0.33mil)	120 x 1-1/2 x 1-1/2"	10	100
1-1/2"	KAM151220E	12' Knurled Angle Molding (0.28mil)	144 x 1-1/2 x 1-1/2"	10	120
2"	KAM21025	10' Knurled Angle Molding (0.18mil)	120 x 2 x 2"	10	100
2"	KAM21020EQ	10' Knurled Angle Molding (0.28mil)	120 x 2 x 2"	10	100
2"	KAM21020	10' Knurled Angle Molding (0.33mil)	120 x 2 x 2"	10	100
3/4"	7838	10' Channel Molding	120 x 1-1/4 x 1-9/16 x 3/4"	20	200
15/16"	7858	12' Reverse Angle Molding	144 x 1-9/16 x 15/16"	20	240
1-1/4"	LAM12/LAM12HRC LAM12G90	12' Locking Angle Molding (Locking Tabs 8" O.C.)	144 x 1-1/4 x 1-1/4"	20	240

## **DETAILS**



For Drywall Linear Lighting capabilities refer to pg.350



Drywall Main Beam, Cross Tee, and Angle Molding

## PHYSICAL DATA

### Material

Hot-dipped galvanized steel

## Surface Finish

Fire Resistance Rating
Resistive when used in applicable UL fire resistive designs. Fire Guard™ components meet UL Design Listings D501, D502, G523, G524, G526, G527, G528, G529, G531, G553, G566, G579, L502, L508, L513, L515, L526, L529, L564, P506, P507, P508, P509, P510, P513, P514

## Cross Tee/Main Beam Interface Override

Main Beam: Staked-on clip (HD8906, HD8906G90)

Cross Tee: Staked-on clip

## Seismic Performance

ICC Evaluation Service, Inc. ESR-1289

**Complies with IBC requirements.**Drywall ceilings are a continuous membrane.
Consult local codes for requirements.

## MAIN BEAMS

HD8906 HD89906IIC

HD8906HRC

## CROSS TEES

XL7936G90 XL8926 XL8945P XL8947P XL8965 XL8965HRC XL8945PHRC

## MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION

374.0 374.0 374.0

## MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION

377.0

 $\mathsf{LEED}^{\circledcirc}$  is a registered trademark of the U.S. Green Building Council

ICC Reports
For areas under ICC jurisdiction, see ICC evaluation report number ESR-1289 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

Warranty Warranty details available at armstrongceilings.com

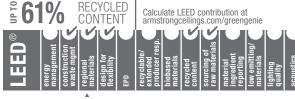


# DRYWALL Grid Systems Curved Ceilings

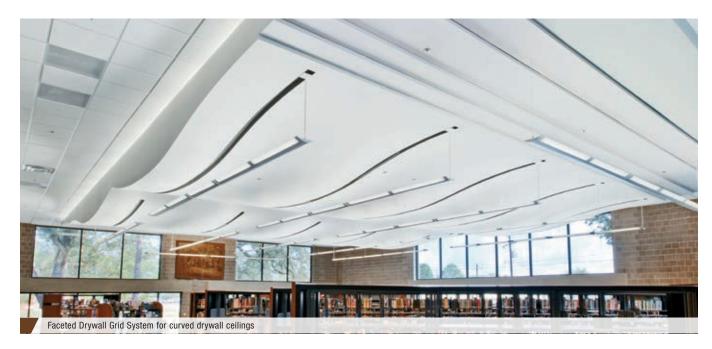
Declare

Living Building
Challenge Compliant

SUSTAIN<sup>®</sup>
High Performance
Sustainable
Ceiling Systems



LOCATION DEPENDENT



Pre-engineered suspension system with notched main beams to simplify curved drywall installations and complicated designs.

VISUAL	SELECTION						PACKA	GING
Face Profile	Item No.	Description	Dimensions (Inches)	Rout Spacing	Load Test D (Lbs./Lin. Fi L/240		Pcs./ Ctn.	Lin. Ft./ Ctn.
Facete	d Drywall Grid	Main Beams						
1-1/2"	HD8906F08	12' Faceted Drywall Main Beam: for creating curved installations	144 x 1-1/2 x 1-11/16"	51 routs – 8" O.C.	18.4 @ 12'	12.3	12	144
1-1/2"	HD8906F16	12' Faceted Drywall Main Beam: for creating curved installations	144 x 1-1/2 x 1-11/16"	51 routs – 16" O.C.	18.4 @ 4'	12.3	12	144
Drywal	I Grid Cross Te	ees						
1-1/2"	XL8965 XL8965HRC	6' Drywall Cross Tee	72 x 1-1/2 x 1-1/2"	6 routs – starting 24" from each end	6.87 @ 72"	4.58 @ 72"	36	216
1-1/2"	XL8947P XL8947PG90	50" Drywall Cross Tee	50 x 1-1/2 x 1-1/2"	8 routs – starting 10" from each end – for Type F light fixtures	19.5 @ 50"	12.79 @ 50"	36	150
1-1/2"	XL8945P XL8945PHRC XL8945PG90	4' Drywall Cross Tee	48 x 1-1/2 x 1-1/2"	9 routs — center rout and starting 10" from each end — for Type F light fixtures	22.5	14.27	36	144
1-1/2"	XL7936G90	3' Drywall Cross Tee	36 x 1-1/2 x 1-1/2"	None	49.96 @ 3'	31.33 @ 3'	38	108
1-1/2"	XL8926 XL8926G90	2' Cross Tee	24 x 1-1/2 x 1-1/2"	3 routs – center rout and 10" from each end	158 @ 2'	90.25 @ 2'	36	78
Access	ories (For additi	onal accessories, see pages 437-438.	)					
	RC2	Radius Clip					205	
	FZRC2	Radius Clip					50	

<sup>\*</sup> NOTE: All load test data based on flat installation per ASTM C635.

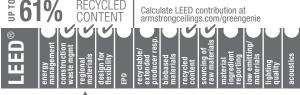
ASTM Class HD - Heavy-duty ID - Intermediate-duty LD - Light-duty



## QUIKSTIX<sup>™</sup> Drywall Grid System for Soffits

Declare<sup>SM</sup> SUSTA

Living Building Challenge Compliant SUSTAIN™ High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT



A faster, easier, better way to frame drywall soffits; designed to significantly reduce time and labor associated with cutting and measuring.\*

#### **KEY SELECTION ATTRIBUTES**

- Faster, easier, better way to frame Drywall Soffits of all types
- Knockouts at 6" and 8" centers reduce cutting time
- cutting timeAlignment holes make screw installation
- Forms perfect 30°, 45°, 60°, 75° and 90° angles
- Flattened bulb is offset to allow true angles without interference
- · Bending crimp prevents misalignment
- 90° angle fits locking angle molding (LAM-12)

## **Locking Angle Molding**

- · Faster, more accurate solution
- Pre-engineered locking tabs punched 8" on center:
  - Eliminate measuring 16" or 24"
  - Locking tabs prevent lateral and upward movement
- Eliminate screws, pop rivets, or crimpers needed to attach tees to molding

- · Knurled surface on both flanges
- ScrewStop™ reverse hem prevents screw spin-off and provides safer handling
- Crimp marks at locking tabs for fast, easy alignment

**PACKAGING** 

· 10-year limited warranty

QuikStix™ Drywall System for Soffits
 \* Drywall Soffit installation is also addressed on Pg. 370 (Integrated Ceiling Solutions – Common Conditions)

VISUAL SI	ELECTION	MAXIN	IUM LO	AD (LBS	5./SF)*		VISUAL SI	ELECTION
Item No.	Dimensions	Lin. Ft./ Bundle	O.C. Spacing		4' Span Lbs./SF	O.C. Knockouts	Item No.	Description
QuickStix™	for Soffits						Molding	
QS612 QS612G90	144 x 1-1/2 x 1-1/2"	144	6"	-	4.87	6"	LAM12 LAM12G90 LAM12HRC	12' Locking Molding (Locking tab
QS812 QS812G90	144 x 1-1/2 x 1-1/2"	144	8"	2.80	_	8"	KAM12 KAM12HRC	12' Knurled Molding
QUIKSTIX™	Locking Pocket Main	Beams					KAM1510	10' Knurled Molding
QSLPM12/ QSLPM12G9	144 x 1-1/2 x 1-1/2"	144	8"	26.95	14.5	8"	KAM1512	12' Knurled Molding

Item No.	Description	Dimensions	Pcs./ Bundle	Lin. Ft./ Bundle
Molding				
LAM12 LAM12G90 LAM12HRC	12' Locking Angle Molding (Locking tabs 8" O.C.)	144 x 1-1/4 x 1-1/4"	20	240
KAM12 KAM12HRC	12' Knurled Angle Molding	144 x 1-1/4 x 1-1/4"	10	120
KAM1510	10' Knurled Angle Molding	120 x 1-1/2 x 1-1/2"	10	100
KAM1512	12' Knurled Angle Molding	144 x 1-1/2 x 1-1/2"	10	120

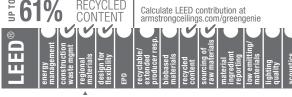


<sup>\*</sup> Simple Span L/240

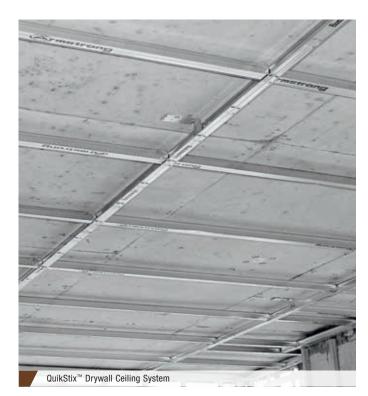
Drywall Grid System Locking Pocket Main Beams Declare

Living Building
Challenge Compliant

SUSTAIN™ High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT



Drywall suspension systems specifically engineered for faster, easier drywall installation...even for drywall spans of up to 7'.

#### **KEY SELECTION ATTRIBUTES**

#### ShortSpan® Tees

- Some components available in High Recycled Content (HRC); Total Recycled Content 61%, Post-consumer 53%, Pre-consumer 8%
- Non-HRC items have 30% recycled content
- 1-1/2" wide face exceeds the minimum industry standard
- ScrewStop™ reverse hem prevents screw spin off
- · Balanced profile stays flat during installation
- Rotary stitching on double web adds strength and stability
- Deep knurled surface for easy screw insertion
- G40, .018" metal thickness meets ASTM C645

## StrongBack™

• Easy, pre-engineered solution to support spans over 6 or 7 feet

#### **Locking Angle Molding**

- Pre-engineered locking tabs punched 8" on center:
  - Eliminate measuring 16" or 24"
  - Prevent lateral and upward movement
  - Eliminate screws, pop rivets, or crimpers needed to attach tees to molding
- · Knurled surface on both flanges
- ScrewStop reverse hem prevents screw spin-off and provides safer handling

**PACKAGING** 

· 10-year limited warranty

## VISUAL SELECTION

Face Profile	Item No.	Description	Dimensions
QUIKSTIX	Locking Pocket Ma	ain Beams (Red Numbers are I	Fire Guard™ Items)
1-1/2"	QSLPM12 QSLPM12G90	Locking Pocket Main Beam	144 x 1-1/2 x 13/16"
SHORTSF	PAN® Cross Tees		
1-1/2"	S7708P S7708PG90	ShortSpan Tee	96 x 1-1/2 x 13/16"
1-1/2"	\$7710 \$7710G90	ShortSpan Tee	120 x 1-1/2 x 13/16"
1-1/2"	S7712P S7712PHRC S7712PG90	ShortSpan Tee	144 x 1-1/2 x 13/16"
1-1/2"	S7714P S7714PHRC S7714PG90	ShortSpan Tee	168 x 1-1/2 x 13/16"

<sup>\*</sup> Simple Span L/240

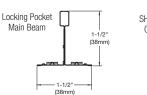
Lin. Ft./ Bundle	Hanger Spacing Lbs./Lin. Ft.	*	Pcs./ Bundle
	3 Ft.	4 Ft.	
144	26.95	14.15	12
96	_	_	12
120	-	-	12
144	-	_	12
168	-	-	12

NOTE: 5/8" drywall weighs 2.4 lbs./SF 1/2" drywall weighs 2.0 lbs./SF 1/2" lite drywall weighs 1.3-1.4 lbs./SF

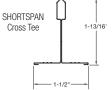
## **ACCESSORIES**

Item No.	Description	Pcs./Ctn.
QSUTC	QuickStix Uptight Clip	150

For Molding and Knurled Angle Molding, see pages 402-404.



**DETAILS** For more information, see submittal BPCS-3639.





## **SHORTSPAN®**

## **Drywall Framing System**



The fastest and easiest way to frame flat drywall ceilings up to 14' wide.\*

**PERFORMANCE** 

## **KEY SELECTION ATTRIBUTES**

Designed to be the fastest and easiest way to frame flat drywall ceilings up to 14' wide. ShortSpan® Cross Tees

- Eliminates hanger wires for spans up to 8'-6"
- Easy, pre-engineered solution to support spans up to 8'-6" with no mid-span support
- PeakForm® profile increases strength and stability
- Select items available in High Recycled Content (HRC) (S7712, S7714)
- ScrewStop<sup>™</sup> reverse hem prevents screw spin-off
- Balanced profile stays flat during installation
- Rotary stitching on double web adds strength and stability
- G40, .018" metal thickness meets ASTM C645

#### **Locking Angle Molding**

- Pre-engineered locking tabs punched 8" on center:
- Eliminate measuring 16" or 24" O.C.
- Locking tabs prevent lateral and upward movement
- Eliminate screws, pop rivets, or crimpers needed to attach cross tees to molding
- · Knurled surface on both flanges
- ScrewStop reverse hem prevents screw spin-off and provides safer handling
- Crimp marks at locking tabs for fast, easy alignment
- · 10-year limited warranty
- \* Corridor Installation Solutions are also addressed on Pg. 376 (Integrated Ceiling Solutions – Common Conditions)

**Packaging** 

Pcs./ Bundle

12

12

12

12

12

12

12

10

10

10

10

10

10

10

10

10

10

10 10

10

Lin. Ft./

Bundle

96

120

144

168

144

144

240

100

120

100

120

100

100

120

100

100 100

100

100

100

## **VISUAL SELECTION**

Item			Performance (Fire Guard™ Only
No.	Description	Dimensions	<u>එ</u>
SHORTSPAN®	Cross Tees (Red Numbers are Fire Guard™ Items)		Dots represent high level of performance
S7708P S7708PG90	8' ShortSpan Cross Tee	96 x 1-1/2 x 1-13/16"	•
S7710P S7710PG90	10' ShortSpan Cross Tee	120 x 1-1/2 x 1-13/16"	•
S7712P S7712PHRC S7712PG90	12' ShortSpan Cross Tee	144 x 1-1/2 x 1-13/16"	•
S7714P S7714PHRC S7714G90	14' ShortSpan Cross Tee	168 x 1-1/2 x 1-13/16"	•
QUIKSTIX™ Loc	cking Pocket Main Beams		
SB12P SB12PG90 StrongBack™ S	Locking Pocket Main Beam  Support Hanger	144 x 1-1/2 x 1-1/2"	-
SB12P SB12PG90 Wall Moldings	StrongBack	144" x 2"	_
LAM12 LAM12HRC	12' Locking Angle Molding (Locking tabs 8" O.C.)	144 x 1-1-1/4 x 1-1-1/4"	
KAM10	Knurled angle molding - 25-gauge (.018" metal thickness)	120 x 1-1/4 x 1-1/4"	_
KAM12 KAM12G90 KAM12HRC	Knurled angle molding – 25-gauge (.018" metal thickness)	144 x 1-1/4 x 1-1/4"	-
KAM1510	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"	_
KAM1512	Knurled angle molding – 25-gauge (.018" metal thickness)	144 x 1-1/2 x 1-1/2"	_
KAM151020EQ	Knurled angle molding – 22-gauge (.028" metal thickness)	144 x 1-1/2 x 1-1/2"	_
KAM151020	Knurled angle molding – 20-gauge (.033" metal thickness)	144 x 1-1/2 x 1-1/2"	_
KAM151220EQ	Knurled angle molding – 22-gauge (.028" metal thickness)	144 x 1-1/2 x 1-1/2"	_
KAM21025	Knurled angle molding – 25-gauge (.018" metal thickness)	144 x 2 x 2"	_
KAM1520G90	Knurled angle molding – 22-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"	_
KAM1525G90	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"	
KAM21020EQ	Knurled angle molding – 22-gauge (.028" metal thickness)	120 x 2 x 2"	
KAM1525G90	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"	_

120 x 2 x 2"

## FIRE RESISTANCE RATING

KAM21020

Meets a broad range of UL design assemblies D501, D502, G523, G524, G527, G528, G529, G531, G553, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514.

Knurled angle molding - 20-gauge (.033" metal thickness)



## **SHORTSPAN®**

## **Drywall Framing System**

Declare<sup>™</sup> Livina Buildina Challenge Compliant High Performance Sustainable Ceiling Systems



LOCATION DEPENDENT

## MAXIMUM LOAD TEST DATA IN LBS./SF - L/240 (Red numbers are FireGuard™ items)

									(10'-14' spans require a mid-span support)		
Item No. ◆	OC Spacing	4' Span Lbs./SF	5' Span Lbs./SF	6' Span Lbs./SF	7' Span Lbs./SF	7'-6" Span Lbs./SF	8' Span Lbs./SF	8'-6" Span Lbs./SF	10' Span Lbs./SF	12' Span Lbs./SF	14' Span Lbs./SF
S77P	16"	23.82	10.64	7.87	4.38	4.16	3.32	2.53*	10.64	7.76	4.38
S77P	24"	15.88	7.09	5.25	2.92	2.77*	2.22	1.69	7.09	5.17	2.92

- \* Maximum load for 16"/24"
- ◆ Enter appropriate cross tee length 8", 10", 12" or 16" (Example: S7708P)

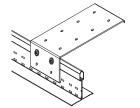
LOAD TEST DATA	<b>Hanger Spacing</b> Uniform Load at L/240 (Lbs/LF)								
ShortSpan® Cross Tees	Web Height	3'	4'	5'	6'	7'	7'-6"	8'	8'-6"
S77P	1-13/16"	_	31.76	14.18	10.49	5.84	5.54	4.43	3.37
QuikStix™ Locking Pock	et Main								
QSLPM12	1-1/2"	40.60	21.64	-	-	-		-	
StrongBack <sup>™</sup> Support H	langer	На	nger Spa	cing Unit	form Load	d at L/36	60 (Lbs/l	_F)	
SB12P	2"	27.53	17.76	_	-	-		-	

## **ACCESSORIES**

## QSUTC - QuikStix Uptight

Clip - Saves time in tight plenum areas and is adjustable to uneven surfaces.

QSUTC - 100 pcs FZQSUTC - 50 pcs



4' O.C. CAT D,E,F = 3' O.C.

## **INSTALLATION NOTES**

- 1. Must screw LAM12 and KAM12 to wall structure using #8 x 1-1/4" wafer head self-drill sheet metal screws tested in 25- and 20- gauge steel studs)
- 2. ShortSpan Tees must be cut within 1/8" of the vertical leg of the LAM and QSLPM
- 3. Slide StrongBack support hanger over the bulb of ShortSpan tee and engage by bending locking tabs back to original position
- 4. Support and level system to structure; attach vertical supports to StrongBack support hanger as required
- 5. The ShortSpan system was installed per these installation notes to produce the load data provided in the chart above

NOTE: For fire resistant installations, refer to UL Directory and Designs for details

## ShortSpan Vertical Support Requirements

Tees installed 16" on center with 5/8" or 1/2" drywall (Seismic Design Categories A, B, C, D, E, F)

Up to 8'-6" span	No vertical support required
8'-6" to 14' span	Mid-span vertical support required

Tees installed 24" on-center with 5/8" drywall (Seismic Design Categories A, B, C, D, E, F)

	Up to 7'-6 " span	No vertical support required
7'-6" to 14' span Mid-span vertical support required	7'-6" to 14' span	Mid-span vertical support required

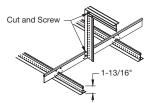
## No Additional Screws Requirements For Seismic Areas



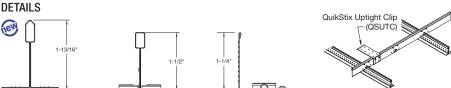
There's no need to screw ShortSpan Tees to Locking Angle Molding in Seismic Design Categories A-F (unless required by local code).



StrongBack Overlap Splice



300 lbs. pullout strength on the StrongBack connection to ShortSpan Tee Bulb



Locking Angle

Molding

StrongBack support hanger attached to structure using the QuikStix™ Uptight Clip

Face

section

Dimension

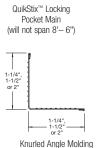
1-1/2" T-bar



StrongBack support hanger attached to structure using hanging wire

# ShortSpan Tee

StrongBack Support Hanger



Material Hot-dipped galvanized steel Surface Finish Unpainted steel

PHYSICAL DATA

## Fire Resistance

Resistive when used in applicable UL fire resistive designs D501, D502, G523, G524, G526, G527, G528, G529, G531, G553, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514 (QSUTC, QSLPM12 are not fire-rated.)

TechLine / 1 877 276-7876 armstrongceilings.com/drywall BPCS-3639-517

 $\mathsf{LEED}^{\circledcirc}$  is a registered trademark of the U.S. Green Building Council Declare<sup>™</sup> is a service mark of The International Living Future Institute



## DRYWALL INSTALLATION SYSTEMS - Accessories

## FastShip<sup>™</sup>

The FastShip™ Clips and Accessories Program offers more than 90 clips and accessory items that are available for overnight or ground delivery direct to the jobsite in full size or 50-piece cartons.

## **VISUAL SELECTION**

Item No.	Description		
EHDC50 (for 1/2" ceiling panels and drywall) EHDC58 (for 5/8" ceiling panels and drywall) EHDC75 (for 3/4" ceiling panels and drywall) 125 pcs  FZEHDC50 (for 1/2" ceiling panels and drywall) FZEHDC58 (for 5/8" ceiling panels and drywall) FZEHDC75 (for 3/4" ceiling panels and drywall) 50 pcs	External Hold-Down Clip locks under bulb of grid section to prevent upward movement and provide secure attachment surface. Keeps acoustical and drywall ceiling components in place during wind uplift and in high security areas.		
DLCC 250 pcs FZDLCC 50 pcs	DLCC – Direct Load Ceiling Clip is used to hang suspension system below existing 15/16" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling, and to support heavy accessories.		
DDC 250 pcs FZDDC 50 pcs	DDC – Double Drywall Clip is used to hang suspension system below existing 1-1/2" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling, and to support heavy accessories; allows for double layer of 5/8" gypsum board.		
<b>DWC</b> 250 pcs	DWC – Drywall Clip allows for a "second" ceiling to be installed below a drywall ceiling; attaches through installed drywall to supporting structure.	63/20	
MBAC 70 pcs FZMBAC 50 pcs	MBAC – Main Beam Adapter Clip attaches to web of suspension system section; provides larger surface for screw attachments; used as a hold-down clip for thin material (metal or plastic lay-in panels); fastens drywall track to underside of exposed suspension system with lay-in panels, leaving suspension system face free of screw holes.		0
XTAC 100 pcs FZXTAC 50 pcs	XTAC – Cross Tee Adapter Clip is used to attach field-cut cross tees to main beams.		
QSUTCA 150 pcs FZQSUTCA 50 pcs	QSUTCA – QuikStix™ Uptight Clip saves time in tight plenum areas and is adjustable to uneven surfaces.		
IIC 36 pcs	IIC – Impact Isolation Clip for use with HD8906IIC drywall grid main beam. Provides up to 8 points of IIC improvement to ensure your project meets IBC requirements.  IIC Clip must be used with HD8906IIC Drywall Grid Main Beam		



## DRYWALL INSTALLATION SYSTEMS - Accessories

## **VISUAL SELECTION**

Item No.	Description	
DWACS 100 pcs FZDWACS 50 pcs	DWACS – Drywall Attachment Clip – Facilitates transition from drywall to acoustical ceiling; locks under bulb of grid section to prevent upward movement and provide secure attachment surface on one side of exposed grid.	NOTE: For use with 15/16" face dimension suspension system.
DW30C - 30° DW45C - 45° DW60C - 60° DW90C - 90° 250 pcs FZDW30C - 30° FZDW45C - 45°	Drywall Angle Clip – Used to create positive and secure angles for drywall and ceiling installations on either main beams or cross tees; attachment to be made with 7/16" pan head screw.	
<b>FZDW60C</b> – 60° <b>FZDW90C</b> – 90° 50 pcs		DW30C - 30°  DW45C - 45°  DW60C - 60°  Main Beam  Drywall Furring Trees  Drywall Angle Clip Item DW90C
RC2 205 pcs FZRC2 50 pcs	RC2 – Radius Clip is used for drywall applications which form curved installations; attaches to the cavity side of web of the main beam with four 7/16" pan head screws. Install at all knockout locations.	
RC1 200 pcs FZRC1 50 pcs	RC1 – Splice Clip is used as a main beam splice or partition top trim splice.	
GSC9 (2-1/2" to 8-1/2") GSC12 (5-1/2" to 11-1/2") GSC16 (9-1/2" to 15-1/2") 100 pcs FZGSC9 (2-1/2" to 8-1/2") FZGSC12 (5-1/2" to 11-1/2") FZGSC16 (9-1/2" to 15-1/2") 50 pcs	Adjustable Grid Spacer Clip — Used to space two parallel main beams for light fixtures, air diffusers, etc.; allows for 1/4" adjustments with three different clips.	Budududu
Locking DW58LT - 5/8" Gypsum DW50LT - 1/2" Gypsum 125 pcs  FZDW58LT - 5/8" Gypsum FZDW50LT - 1/2" Gypsum 50 pcs	Drywall Transition Clip with Locking Tabs — Facilitates transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates need for drywall bead. Locking tabs provide secure location for DGS cross tees.	
Non-locking DW58AG - 5/8" Gypsum DW50AG - 1/2" Gypsum 125 pcs		



## You Can Use Acoustical Walls to Enhance Design and Acoustical Performance

Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

Acoustical wall treatments offer an additional option to further reduce noise. Measures for walls are stated in STC or NRC values. Adding wall treatments to an acoustical ceiling can improve reverberation time by 87%. See example below.

## STC (Sound Transmission Class)

A measure for rating the performance of a wall system as a barrier to airborne sound transmission between adjacent closed spaces such as offices.

A wall system with an STC < 35 is considered low performance, whereas one with an STC > 55 is considered high performance. STC is the wall equivalent of CAC. STC is measured according to ASTME 90.



## NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A wall system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



## Example:







3,200 SF Closed Conference Room (20' x 16'), 10' ceiling height, drywall, vinyl floor	No Treatment (Drywall Ceiling)	Acoustical Ceiling (Ultima® 0.70/35)	Acoustical Ceiling (Ultima 0.70/35) and Two Soundsoak® 60 Walls
NRC	0.10	0.70	0.70 (Ceiling and Wall Treatments)
Shared Wall STC	35	35	45
Reverberation Time	2.3 sec	0.5 sec	0.3 sec
RT Improvement	ref	78%	87%
SPL Reduction	ref	-4.8 dB	-7.5 dB

For definitions of acoustical terms, see pages 473-474 in this catalog.







# TECTUM® WOOD FIBER – WALLS – STANDARD & CUSTOM

Product information listed pertains to product families, may not apply to individual items. Consult product details at armstrongceilings.com/commercial before specifying/purchasing.

Standard Colors



**TECTUM®** Pgs. 445-446 Direct-Attach Wall Panels







TECTUM® Finalé Wall Panels

₩ 🐃 📈 🖋



TECTUM® Fabric Pg. 448 Wall Panels NRC WEF TO THE



TECTUM® Panel® Art Pg. 449 Wall Panels





Natural

(TNA)

Made-to-order Colorations® Colors Available



White

Made-to-order Sherwin-Williams® Colors Available

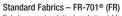
## SOUNDSOAK FABRIC WALLS - STANDARD & CUSTOM



SOUNDSOAK® Standard







Fabrics are dye-lotted and should be segregated by dye lot. Do not mix.



Blue Black Neutral



Straw



Bone









(CN)

Silver

Papier (SP)



Cement

Mix (CM)





Neutral (SN)





#### Spruce (BS) (LE)

Composed Fabric Surface - Tempos<sup>™</sup> (TS) Colors are available on both Rhythms and Tempos but only shown in one.

Leaf



(BMB)

(BN)

Blue

Balboa (BA)

Grey Mix





Opal







Deep

Burgundy

(DB)

Violet



Quartz

Rhythms® (RH)







(PGB)

Woven Fabric Surface - Lido™ (LD)

Anchorage™ (AN) Fabrics are dye-lotted and should be segregated by dye lot. Do not mix.



Canyon

Balboa (BA)





(OB)





(AG)





(GS)



Rirch (BR)

Metallation™ (MT)



Polished Pewter (PP)



(HF)





Spinel™ (SP)



Vinyl Surface - Signature (SV) Mineral Fiber Substrate only





Concrete (CCA)

Sand (SAA)

NOTE: Standard SoundSoak® panel item numbers include references to size, fabric, and substrate. Consult your price list or

contact TechLine for assistance with identifying item numbers.

SOUNDSOAK® Custom

Pg. 457



We'll create your walls.



Custom Fabrics Available

armstrongceilings.com/customsoundsoak



**CEILING & WALL SOLUTIONS** 

NEC 🕮 🗘

solutions center

helping to bring your one-of-a-kind ideas to life

## TEXTURED SCRIM WALLS - STANDARD



Standard Color



OPTIMA™/ Pg. 452 PAINTED NUBBY™ Wall Panels









SOUNDSCAPES<sup>1</sup> Pg. 452 Shapes Walls













## METAL WALLS - CUSTOM



**Custom Metal Walls** 















(WH)

Silver Grey (SG) Grey (MY)



RAL® and Custom Colors Available

## **ICON KEY**

Icons are used throughout the catalog to help you quickly identify key product with high level of performance.

## **High Acoustics**



Acoustical options available.



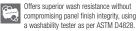
Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

## Fire Performance Class A

## **High Durability**

#### Washability





### Scrubbability



Product is scrubbable. See specific info on product page.

## Impact Resistance



Excellent resistance to surface impact as per Falling Ball Test.

## Scratch Resistance



Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.

#### Soil Resistance



Excellent resistance to dirt and/or grease for lasting value and performance.

## Color Availability



Available in color.

## Recycle Program



Product is recyclable through the Armstrong Recycling Program

## TRANSLUCENT PARTITIONS AND WALLS - STANDARD



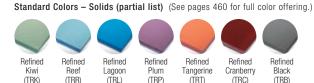
INFUSIONS™ Partitions Pg. 459



INFUSIONS™ Walls



Pg. 460



Refined (TRR)





Lagoon

(TRL)







Tangerine

(TRT)

Refined Cranberry

(TRC)



**Patterns** 



Canvas

(THC)



Spun

Copper

(TSC)





Gold

(TLG)



Crushed Copper (TCC)

(TRP)

Orange

Arbor

(TOA)

(TRB)

## **WOOD WALLS - STANDARD & CUSTOM**



WOODWORKS® Standard Walls





WOODWORKS® Pgs. 455-456 **Channeled Walls** 





Ekos® Wall System





WOODWORKS® Pgs. 457-458





### Standard Finishes - Natural Variations™







Light Cherry Dark Cherry (NLC) (NDC)



Walnut

(NWN)



Walnut Espresso Oak (NOK) (NWE)

## (NMP) Constants™







Walnut (CCY) (CWA)

Redux Wood

(BAP)

Bamboo



(CMA) Ekos





Wheat (CRW)



(BAN)



(MP)

Light Cherry Dark Cherry Mahogany (LC)

(DC)

(HG)

Maple (NMP)

Light Cherry Dark Cherry (NLC) (NDC)



WOODWORKS® **Custom Walls** 





WOODWORKS® Pg. 464 **Channeled Custom Walls** 









W00DW0RKS® Grille **Custom Walls** armstrongceilings.com





















Mahogany Plain Sliced



Quartered





Quartered



Teak Quartered

WOODWORKS CEILING-TO-WALL TRANSITIONS

Pg. 464



WOODWORKS® Channeled Pgs. 455-456 Wall Planks







WOODWORKS® Grille Wall-to-Ceiling













WOODWORKS® Linear Planks Wall-to-Ceiling











WOODWORKS® **Custom Walls** 





**Custom Walls** <u>₹</u>



**Custom Walls** NRC P







## WALLS At-a-Glance

you inspire™ solutions center

helping to bring your one-of-a-kind ideas to life

## RECOMMENDED AREAS OF USE Dots represent high level of performance.

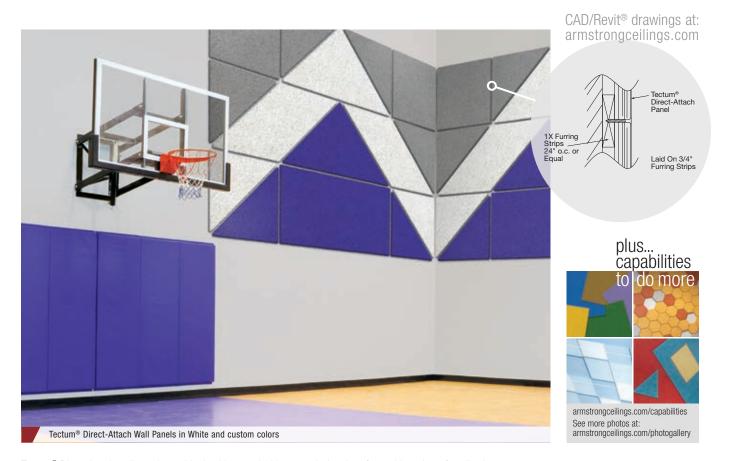
Product	Substrate	Panel Thick- ness	Finish	A Mounting	NRC D-20 Mounting	Rating C-40 Mounting	C-20 Mounting		Rating 2 Sides	Conf. Rooms	Private Offices	Classrooms	Corridors	Cafetorium	Music Rooms	Patient Rooms
Tectum® Direct-Attach Pgs. 445-446	Wood Fiber Cementitious Fabric	1"	-	0.40	0.45	0.80	0.85	-	-	-	-	-	•	•	•	-
		1-1/2"	-	0.55	0.60	0.90	0.95	-	-	-	-	-	•	•	•	_
		2"	_	0.60	0.70	0.95	1.00	-	-	-	-	-	•	•	•	_
Tectum® Finalé™ Pg. 447	Wood Fiber Cementitious Fabric	1"	_	0.85	-	_	-	-	-	_	-	_	•	•	•	_
		1-1/2"	-	0.90	-	-	-	-	-	_	-	-	•	•	•	_
		2"	-	1.00	_	_	-	-	-	-	-	_	•	•	•	_
Tectum <sup>®</sup> Fabri-Tough <sup>®</sup> Pg. 448	Wood Fiber Cementitious Fabric	1"	-	0.50	0.60	0.90	0.85	-	-	-	-	-	•	•	•	_
Tectum <sup>®</sup> Panel <sup>®</sup> Art Pg. 449	Wood Fiber Cementitious Fabric	1"	-	0.40	0.45	0.80	0.85	-	-	-	-	-	•	•	•	_
		1-1/2"	_	0.55	0.60	0.90	0.95	-	-	-	-	-	•	•	•	_
		2"	_	0.60	0.70	0.95	1.00	-	-	-	-	_	•	•	•	_
Soundsoak® 60 Pg. 450	Mineral Fiber		Woven Fabric Composed Fabric	0.65	0.70	_	-	43	45	•	•	•	•	•	•	•
Soundsoak 60 Pg. 450	Mineral Fiber		Vinyl	0.50	0.50	_	-	43	45	-	-	-	-	•	-	•
Soundsoak 85 Pg. 450	Fiberglass		Woven Fabric Composed Fabric	0.80	0.90	-	-	-	-	•	•	•	-	•	•	•
Soundsoak Custom 1" Pg. 451	1" Fiberglass		Woven Fabric	0.80	0.80	_	-	-	-	•	•	•	_	•	•	•
Soundsoak Custom 2" Pg. 451	2" Fiberglass		Woven Fabric	1.05	1.10	-	-	-	-	•	•	•	-	•	•	•
Optima™ Pg. 452	Fiberglass		DuraBrite™ Finish	0.80	0.90	-	-	-	-	•	•	-	-	•	•	•
Painted Nubby <sup>™</sup> Pg. 452	Fiberglass		Woven Cloth	0.70	0.80	_	-	-	-	•	•	-	-	_	_	_
SoundScapes <sup>™</sup> Shapes Pg. 452	Fiberglass		Scrim Finish	0.80	0.90	-	-	-	-	•	_	•	_	•	•	_
Custom Metal Pg. 463	Metal		Smooth Metal	Varies	Varies	-	-	-	-	•	•	•	•	•	•	•
WoodWorks® Standard & Custom Pgs. 453-454, 464	Wood		Smooth or Perforated Wood Veneer	0.45-0.80 <sup>†</sup>	0.45-0.80 <sup>†</sup>	-	-	-	_	•	•	•	•	•	•	•
WoodWorks® Ekos® Pgs. 457-458	Wood		Smooth or Perforated Wood Veneer	0.45	-	-	0.50	43	45	•	•	-	-	-	-	-

† With 1" fiberglass infill and fleece



## M TECTUM® Direct-Attach

## **Acoustical Wall Panels** coarse texture



Tectum® Direct-Attach wall panels provide durable, sustainable, acoustical options for a wide variety of applications.

## **KEY SELECTION ATTRIBUTES**

- · Durable for heavy use interiors
- · Great retrofit solution for noise reduction
- Excellent noise absorption NRC up to 0.85 (1" panel)
- Tectum<sup>®</sup> panels are part of the Sustain<sup>™</sup> portfolio and meet the most stringent sustainability compliance standards today
- · Can be field painted up to 6 times without impacting acoustic or fire performance
- · Wide variety of color options available, including made-to-order Colorations® colors and Sherwin-Williams® colors
- · Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

## TYPICAL APPLICATIONS

- Gymnasiums
- Auditoriums
- · Multi-purpose Spaces
- · Exposed Structures
- · Acoustical Retrofits
- · Education Spaces

**COLORS** Due to printing limitations, shade may vary from actual product.



White Natural (TWH) (TNA)











Made-to-order Sherwin-Williams® Colors Available

Note: Colorations® colors and panels greater than 1" thick are not included in Sustain<sup>1</sup> portfolio.

## **DETAILS**





- 1. Tectum® Direct-Attach Panel in White
- 2. Tectum® Direct-Attach Panels in White

Note: Panel edges are unfinished.

## LINE DESIGN CAPABILITIES

Available through special order







Line-Design Panel



Vertical



Horizontal Line-Design Panel



Line-Design Panel

Diamond Line-Design Panel Line-Design Panel



## TECTUM® Direct-Attach

Acoustical Wall Panels coarse texture

Declare<sup>™</sup> Livina Buildina Challenge Compliant



П

Panel Thickness

Mounting Method

Α

D-20

C-20

C-40

## VISUAL SELECTION

**Dimensions** Nominal

WxLxH Edge Item Profile (Inches) No. ◆

TECTUM® Direct-Attach Wall Panels (FSC Certified Available Upon Request) 8182T10\_\_\_

Long Edges Beveled/ Short Edges Square

8181T10\_\_\_ 23-3/4" x 96 x 1"

8180T10\_\_\_

Other Size

**Panels** 

W 23-3/4" - 48" L: 12" - 144" 1", 1-1/2", or 2" thickness

23-3/4" x 48 x 1"

47-3/4" x 96 x 1"

When specifying or ordering, include the appropriate 3 digit color suffixes TNA = Natural TWH = White (e.g. 8182T10 TWH) For four-sided beveled edge panels, special sizes and colors, call TechLine at 1 877 276-7876.

#### FSC®-certified panels available upon request

Four-sided beveled edge panels are recommended in adjoining panel installations

## **PERFORMANCE SELECTION** Dots represent high level of performance.

High Performance

Sustainable

Ceiling Systems

ACOUSTICAL INFORMATION

0.40

0.40

0.80

0.85

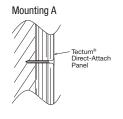
Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	N Scratch	30-Yr Warranty	_
		BioBlock	Humi- Guard+			- Durability			
Class A	Up to 0.75	•	•	•	•	•	•	•	
Class A	Up to 0.75	•	•	•	•	•	•	•	
Class A	Up to 0.75	•	•	•	•	•	•	•	
Class A	Up to 0.75	-	-	-	•	•	•	•	

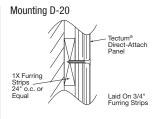
## **ACCESSORIES**

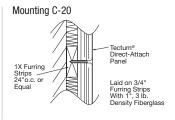
Item No. ◆	Description	Quantity
8187L16	#6 x1-5/8" Painted Head - Sharp point Screws	1000/ctn
8188L16	#6 x1-5/8" Painted Head – Drill point Screws	1000/ctn
8189L22	2-1/4" Painted Head – CMU Screws	500/ctn

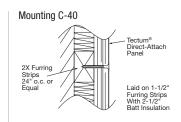
♦ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural; TWH = White (e.g. 8187L16 <u>T W H</u>) Consult installation instructions for fastener guidance

## ACOUSTICAL MOUNTING METHODS









## PHYSICAL DATA

### FSC Certified panels available upon request.

Cementitious Wood Fiber; FSC®-cerified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276 7876.

## Surface Finish

Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

### Fire Performance

Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

## **VOC Emissions**

Third-party certified compliant with California
Department of Public Health CDPH/EHLB/Standard
Method Version 1.1, 2010. This standard is the
guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Tectum® panels meet CDPH guidelines in enclosed office wall applications at 50% coverage. View certificate details at armstrongceilings.com/tectum.

> TechLine / 1 877 276-7876 armstrongceilings.com/tectum

> > BPCS-5614-517

## **Humidity/Sag Resistance**

HumiGuard® Plus panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

## Installation Considerations

Panels must be mechanically attached to approved substrate per installation instructions. To achieve proper finished visual panels should be installed in an ashlar pattern. Four-sided beveled edge panels are recommended in adjoining panel installations.

Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

## **Primary (Embodied) Energy** See all LCA information on our EPDs.

Printed in the United States of America

## **Application Considerations**

Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels. Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

## **Design Considerations**

For walls that may experience condensation or moisture, such as uninsulated exterior walls, D- or C- mounting is required to create a gap between the structure and the panel

## Specification Consideration

FSC Certified panels available upon request.
Attention: For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

## Seismic Restraint

Tectum® Direct Attach panels are approved for application in all seismic areas when installed per Armstrong Ceilings Installation Instructions.

## Warranty

30-Year Warranty. Details at armstrongceilings.com

## Weight, Pcs and SF/Pallet

- 1.65 lbs/SF

8180T10 - 36 pcs/pallet; 1,152 SF/pallet 8181T10 - 72 pcs/pallet; 1,152 SF/pallet 8182T10 - 72 pcs/pallet; 572 SF/pallet

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## **™**TECTUM® Finale™

## **Acoustical Custom Wall Panels** coarse texture





Tectum® Finale™ high NRC wall panels provide durable, sustainable, acoustical options for a wide variety of applications.

## **KEY SELECTION ATTRIBUTES**

- Composite panel design combines
   Tectum® panel and acoustical absorptive material in one for maximum sound control and effiencient installation
- Excellent Noise Absorption NRC up to 1.0 for maximum sound absorption (1" panels)
- Panel sizes in 1", 1-1/2", and 2" thickness; widths: 23-3/4" to 47-3/4"; lengths: 48" to 144"
- Available in White, Natural, and made-to-order Colorations® Colors and Sherwin-Williams® Colors
- · Abuse resistant for active spaces
- · Long edges beveled, square ends
- · Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

 $\begin{tabular}{ll} \textbf{COLORS} & \textbf{Due to printing limitations, shade may vary from actual product.} \end{tabular}$ 



(TWH)



Natural (TNA)



Made-to-order Colorations® Colors Available



Made-to-order Sherwin-Williams® Colors Available

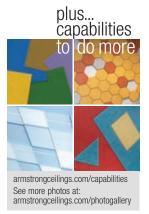
## **DETAILS**





# TECTUM® Fabric Walls Acoustical Custom Wall Panels





Tectum® Fabric Walls help control noise and are ideal in open-plan, mixed use spaces.

## **KEY SELECTION ATTRIBUTES**

- Abuse-resistant, fabric wrapped panels attach directly to walls
- Excellent Noise Absoption NRC up to 0.90
- Panel sizes in 1" or 1-1/2" thickness; widths: 23-3/4" to 47-3/4"; lengths: 48" to 120"
- Tackable panels can be used for bulletin/ display boards
- Mounting is quick and easy using internal spline system
- Long lasting, durable fabric options available
- · Fabric wrapped to kerf, edges unfinished

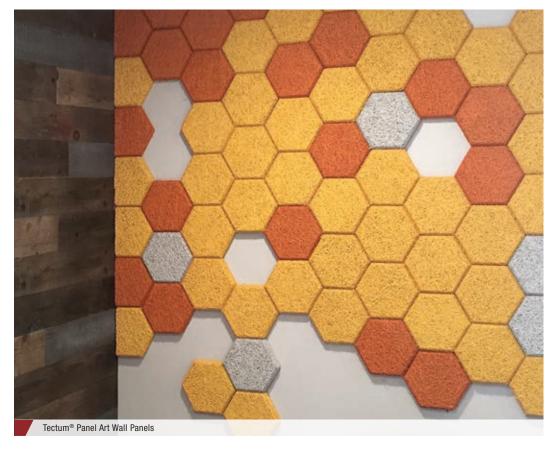
## **FABRICS**



Custom Fabric Options Available

## ▼TECTUM® Panel Art **Custom Wall Panels**

coarse texture





Tectum® Panel Art wall panels offer unlimited design flexibility and easy installation.

## **KEY SELECTION ATTRIBUTES**

- Eight shapes and custom options available
- Choose from 1", 1.5", and 2" panel thickness: create your own custom shapes from panels up to 48" x 48"
- Noise absorption NRC 0.40 (1" panel)
- · Available in White, Natural, and made-to-order Colorations® colors and Sherwin-Williams® colors
- · Abuse resistant for active spaces
- · All panels have beveled edges
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

## COLORS Due to printing limitations, shade may vary from actual product.



White (TWH)



Natural (TNA)



Made-to-order Colorations® Colors Available



Made-to-order Sherwin-Williams® Colors Available

## SHAPES Examples of custom options



Square .631 lb/pc Width: 8" Length: 8"



Rectangle 1.4 lb/pc Width: 8" Length: 16'



Hexagon .575 lb/pc Width: 7.5" Length: 8-11/16"



Circle .475 lb/pc 8" Diameter



16" Triangle 1.425 lb/pc Width: 16" Length: 16"



8" Triangle .375 lb/pc Width: 8" Length: 8"



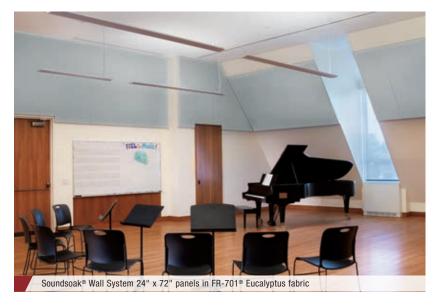
.700 lb/pc Width: 8" Length: 16"



Right Parallelogram Left Parallelogram .700 lb/pc .700 lb/pc Width: 8" Length: 16"

## SOUNDSOAK®

## Standard and Custom Acoustical Wall Systems



## STANDARD FABRICS

#### FR-701® (FR)



(BN)



(BL)



(BR)



(ST)





















(BS)





(LE)



(OP)



(CN)

Crystal Blue (CB)

Deep







(SN)

Quartz

(QZ)





Silver Papier Cement Mix (SP) (CM)

Burgundy (DB) Fabrics are dye-lotted and should be segregated by dye lot. Do not mix.

Violet

(VI)

## $\textbf{COMPOSED FABRIC SURFACE} \quad \text{Colors are available in both Rhythms} \text{$^{\$}$ and Tempos} \text{$^{\$}$ but are only shown in one.}$

Tempos<sup>™</sup> (TS)

(BO)



Charcoal (BMB) (CLB)





(MIB)



(OAB)



(PGB)

Rhythms® (RH)



Blue Mauve

(RMR)



(MIR)



(DSB)

Pearl Grey (PGB)

## Easy-to-install wall system, available in a variety of fabric and vinyl colors, and a wide range of sizes and custom options.

## **KEY SELECTION ATTRIBUTES - STANDARD**

- · Available in two substrates
- · Acoustical Wall System with an inner core absorbs 50-90% of sound striking surface
- 3 to 6 times the sound absorption of fabric-covered gypsum
- · Wide variety of chair rail accessories for design and durability
- · Coordinate finishes for Soundsoak Baffles (Pg. 65)
- · Full standard finish offering at armstrongceilings.com/soundsoak

## **KEY SELECTION ATTRIBUTES - CUSTOM**

- Custom fiberglass panels up to 48" wide and 120" high on 1/2"-4" fiberglass, in 1/2" increments
- Tackable options including 5/8" thick mineral fiber panels that will sit flush with door frames - perfect for offices and corporate environments
- · Variety of impact resistant acoustical wall panels available for high-traffic and high-abuse areas
- · Convex and concave curved panels in up to 48" x 120" sizes

## **WOVEN FABRIC SURFACE**

#### Lido™ (LD)











(OB)

(BC) (BA)









Metallation™ (MT)









(ST)

(GS)



(SP)

(BR)



Steel (WS)

Spinel™ (SP)





Pewter (PP

Sandstone

## VINYL SURFACE Mineral Fiber Substrate only.

## Signature (SV)



(CCA)



(SAA)

Colored fabrics are dye-lotted and should be segregated by dye lot. Do not mix. NOTE: Standard SoundSoak® panel item numbers include references to size, fabric, and substrate. Consult your price list or contact TechLine for assistance with identifying item numbers.

LOCATION DEPENDENT

PERFORMANCE	Dots represent high
PERFURIMANUE	level of performanc

Product	Item No. ◆	Substrate	Finish	Panel Width	Dimensions Panel Height	Panel Thick- ness	Surface Type*		Rating D Mount		Rating† 2 Sides
Soundsoak 60	400	Mineral Fiber	Woven Fabric Composed Fabric	30"	72", 96", 108", 120" (06) (08) (09) (10)	3/4"	W: FR, AN, MT, LD, SP C: RH, TS	0.65	0.70	43	45
Soundsoak 85	321	Fiberglass	Woven Fabric	24"	72", 96", 108", 120" (06) (08) (09) (10)	1"	W: FR, AN, MT, LD, SP, RH	0.80	0.90	-	_

\* FR-701 $^{\circ}$  (FR), Lido $^{\circ}$  (LD), Spinel $^{\circ}$  (SP), Metallation $^{\circ}$  (MT), Anchorage $^{\circ}$  (AN), Tempos $^{\circ}$  (TS),Rhythms $^{\circ}$  (RH), Signature Vinyl (SV)

VISUAL SELECTION For Soundsoak corners, chair rails, and moldings, see Pgs. 461-462.

- · When specifying or ordering, add panel height, surface type, and color.
- † 3-5/8" metal studs with one layer of 5/8" drywall on both sides and Soundsoak 60 on one or both sides.

**EXAMPLES:** 40 08 0 FR BN

Panel Type: Panel Height: Surface Type: Blue Neutral SS 60 Woven

32 10 1 RH BMB Panel Type: Panel Height: Surface Type: SS 85 10 Ft. Rhythms

Color: Blue Mauve



## CUSTOM FABRICS (PARTIAL LIST) Due to printing limitations, shade may vary from actual product.

NOTE: Custom Soundsoak is also available in all standard woven Soundsoak fabrics. Choose from a large selection of panel fabrics and vinyls from manufacturers like: Guilford of Maine, Hytex, Carnegie, Koroseal, Maharam, Knoll, Designtex.

## Carnegie







Flux



Nexus

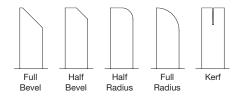






## **EDGE DETAILS**

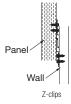
Fabric-wrapped edge profile options on custom panels include: square, beveled, mitered and radiused edges.



## FLEXIBLE INSTALLATION

- · Impaling Clips
- Z-clips
- Adhesive





## ACOUSTICAL PERFORMANCE Dots represent high

level of performance.

#### Fiberglass Thickness NRC\* 3/4" 0.70 1" 0.80 1-1/8"\*\*† 0.85 1-1/2" 0.95 2" 1.05 2-1/8"\*\*† 0.95 3" 1.15

- Acoustical performance may vary depending on the fabric used.
- \*\* 2"- and 3"- thick panels are designed to reduce noise and reverberation in spaces, especially those exposed to exterior transportation noise or interior equipment and appliance noise.
- † Fiberglass with 1/8" MFG for impact resistance

## HYIEX



Barrista



















Design





Chase





Sticks



Guilford of Maine is a registered trademark of Guilford of Maine. Hytex is a trademark of Hytex Industries. Koroseal is a trademark of RJF International Corporation. Carnegie is a registered trademark of Carnegie Corporation. Knoll, Inc. Designtex is a registered trademark of Steelcase Corporation.

## PHYSICAL DATA

Fire Performance Tested to ASTM E84 - 25/200 Tested to CAN/ULC SIO2 - 25/250 Composite Class A rating per IBC (fabric, substrate, and adhesive) For more details on Soundsoak fire performance, visit our web site at armstrongceilings.com/soundsoak **Warranty** Details at armstrongceilings.com

## OPTIMA™ & PAINTED NUBBY™

Wall Panels

VISUAL SELECTION

Finish

DuraBrite®

Woven Cloth

Substrate

**OPTIMA™** 

PAINTED NUBBY

Fiberglass

Fiberglass



Dimensions (Inches)

48 x 96 x 1"

48 x 96 x 1"

**PERFORMANCE** Dots represent high level of performance.

NRC Rating									
A Mounting D-20 Mounting									
NRC	NRC								
0.80	0.90								
0.70	0.80								
•	•								

Wall panels with a bright surface that provide excellent sound absorption.

LOCATION DEPENDENT

## **KEY SELECTION ATTRIBUTES**

## 0ptima

## Painted Nubby - Bright surface

- Durability
   Washable
   Scratch-resistant
   Soil-resistant
- · Smooth surface

## **COLOR**



#### INSTALLATION ACCESSORIES

Description C CHANNEL	Item No.	Dimensions (Inches)	Color
Extruded PVC Plastic H CHANNEL	3107	1 x 96 x 1"	White
Extruded PVC Plastic	3108	1-5/8 x 96 x 1"	White

A Mounting – Mounting directly against existing surface D-20 Mounting – Mounting spaced 3/4" from existing surface using 1" x 4" furring strips

# SOUNDSCAPES<sup>™</sup> SHAPES Wall Panels

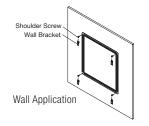
For performance and physical data, see pgs. 287-290, 299-300.

Item

3154

3104

No.



For more information, see pgs. 95-98 or visit armstrongceilings.com/shapes



## **KEY SELECTION ATTRIBUTES**

• 10 shape options

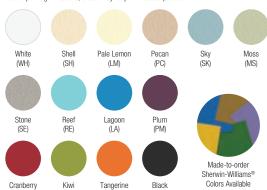
(CN)

- Coordinate with Armstrong® ceilings or other interior finishes, including SoundScapes® Blades™ and Shapes, Infusions® lay-in panels, walls, and partitions, or Create!™ ceilings.
- · Quick and easy to install directly to wall

## COLORATIONS™ COLORS

(KW)

Due to printing limitations, shade may vary from actual product.



**Tech**Line / 1 877 276-7876 armstrongceilings.com/walls (search: soundscapes shapes walls) LEED® is a registered trademark of the U.S. Green Building Council Sherwin-Williams®, Duration®, and Harmony® are registered trademarks of the Sherwin-Williams Company. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2016-2017 AWI Licensing LLC Printed in the United States of America



## WOODWORKS®

## Standard Wall Panels



Wall system available in a variety of wood species, stains, sizes, and perforation options.

## **KEY SELECTION ATTRIBUTES**

- · Coordinate veneer choice with WoodWorks® ceilings
- · Install panels horizontally or vertically using clips or splines
- · Perforated panel with acoustical backing improves sound quality and reduces reverberation time within a space
- · USDA-Certified Biobased Product 100% (preferred for government projects)

 $\begin{tabular}{ll} \textbf{VENEERS} & \textbf{Due to printing limitations, shade may vary from actual product.} \end{tabular}$ 

# (Real Wood Veneers)

Walnut

Maple

Natural Variations™











Dark Cherry

(NDC)

 $\textbf{Constants}^{\scriptscriptstyle{\mathsf{TM}}}$ (Real Wood Veneers)









Redux

Wood Wheat (CRW)

Bamboo\* (Veneer is Rapidly Renewable)









Custom Veneers

Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

## PERFORATION OPTIONS (Actual 1:6 scale shown)



W1 W2 - Rg 6006 (Unperforated) (Round Straight)





(Round Straight)









**Custom Perforations** Available

NOTE: Slotted perforations run parallel to the length of the panel.

(Oval Straight Slotted) (Oval Straight Slotted)



## W00DW0RKS®

Standard Wall Panels







RECYCLED

## VISUAL SELECTION

Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available		Perforation Options	Installation Options	Finish Options
FSC® certified W	00DW0RKS® Wall F	anels with A	Acoustical Fle	ece	
5814	23-3/4 x 48 x 3/4"		W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN
5818	23-3/4 x 96 x 3/4"		W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN
5819	23-3/4 x 108 x 3/4"		W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN
5820	23-3/4 x 120 x 3/4"		W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN

NOTE: For veneers and sizes available as special order, call TechLine at 1 877 276-7876.

## ACOUSTICAL INFORMATION

Dots represent high level of performance.

	NRC Rating				
Perforation	D Mounting w/ Acoustical Fleece	D Mounting w/ 1" Fiberglass Infill*			
W1	N/A	N/A			
W2	0.50	0.65			
W3	0.50	0.65			
W4	0.55	0.80			
W5	0.45	0.70			
W6	0.45	0.60			

<sup>\*</sup> Fiberglass Infill Panel Item 8200100

### WoodWorks Walls perforations align with the following ceiling panels:

Perforation	WoodWorks® Vector®	WoodWorks Concealed
W2	yes	yes
W3	yes	yes
W4	yes	no
W5	yes	no
W6	yes	no

EXAMPLE: 5814 W1 K NMP

Panel Dimensions: Perforation: Installation: 24" x 48" panel Unperforated Spline installation Natur

Finish: al Variations" Maple

## **ACCESSORIES**

For corners, splines, Z-Clips, and infill panel options, see pages 461-462.

## PHYSICAL DATA

waterial FSC® certified fire retardant particle board with face-cut veneers (SW-C0C-003601). For more information about FSC-certified products, or to view our FSC certification letter, visit armstrongceilings.com/woodworksfsc

### Surface Finish

Clear or tinted semigloss coating

## Fire Performance

Class A ASTM E84 surface burning characteristics, HPVA Certified with audit program per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain (special order panels

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained throughout the life of the product.

## **Design Considerations**

The reveal width on WoodWorks Tegular panels and WoodWorks Walls is different. For an application with the same size reveal in the ceiling and on the wall, order custom-cut panels or use Vector® ceiling panels Z-clipped to the wall.

## **Specification Consideration**

Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

## Warranty

Details at armstrongceilings.com

## Weight; Square Feet/Carton

Panels - 2.75 lbs/SF; bulk packaged per order.

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## WOODWORKS® Channeled

## Standard Wall Plank



Perforated wall panels with acoustical backing that improves sound quality and reduces reverberation time.

## **KEY SELECTION ATTRIBUTES**

- . Install in the ceiling, on the wall, or create 90° angled ceiling-to-wall transitions
- · Two plank lengths available as standard products
- · California Air Resources Board (CARB) compliant
- **USDA-Certified Biobased Product** 100% (preferred for government projects)
- · Shorter lead times and lower cost than custom millwork

## **VENEERS**

Due to printing limitations, shade may vary from actual product.

Natural Variations™ (Real Wood Veneers)



Light Cherry (NLC)







Available

W8 (5mm profile with

3mm groove)

## IMAGES™ FINISHES

(High Quality Printed Finishes)





(PLC)



(NDC)

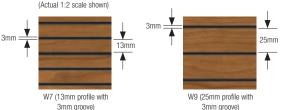
Dark Cherry (PDC)

## **IMAGES PERFORATION OPTIONS**

W7 (13mm profile with

3mm groove)

VENEER PERFORATION OPTIONS





W9 (25mm profile with

3mm groove)

25mm

Fire

Rating

Class A

Class A

Class A

Class A

Class A

## WOODWORKS® Channeled

Standard Wall Plank





\*Images™ products are not FSC or Rainforest Alliance Certified



RECYCLED

LOCATION DEPENDENT

PERFORMANCE Dots represent high level of performance.

Acoustics

0.50, 0.70

 $0.55, 0.90^{\dagger}$ 

 $0.50, 0.75^{\dagger}$ 

0.50, 0.70 \*\*

0.55, 0.90<sup>†</sup>

## VISUAL SELECTION - IMAGES™ FINISHES

No. •

Edge Item

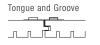
Dimensions Nominal W x L x H (Inches)

WOODWORKS® Natural Variations™ FSC® certified Channeled Wall Plank
Perforated with Acoustical Fleece

ongue	and	Gro

ed with Acoustical Fleece						
5900WW7	5.553 x 96 x 3/4"					
5900WW8	5.553 x 96 x 3/4"					
5900WW9**	5.553 x 96 x 3/4"					
5901WW7	5.553 x 120 x 3/4"					
5901WW8	5.553 x 120 x 3/4"					
5901WW9**	5.553 x 120 x 3/4"					

## WOODWORKS Images Channeled Plank Perforated with Acoustical Fleece



6688WW7	5.553 x 96 x 0.688"	
6688WW9**	5.553 x 96 x 0.688"	
6689WW7	5.553 x 120 x 0.688"	
6689WW9**	5.553 x 120 x 0.688"	

0.50, 0.75 <sup>†</sup>	Class A	
0.50, 0.70 <sup>††</sup>	Class A	
0.50, 0.75 <sup>†</sup>	Class A	
0.50, 0.70 <sup>††</sup>	Class A	
0.50, 0.75 <sup>†</sup>	Class A	

- ◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 5900WW7 NMP)
- † NRC 0.75 or 0.90 when installed with bioacoustic infill 5479.
- <sup>++</sup> NRC 0.50 or 0.70 when installed with fiberglass infill 8200100
- NOTE: For sizes available as special order, call TechLine at 1 877 276-7876.
- \*\* Size width for panels with W9 perforation is 5.393".

## ACCESSORIES

For corners, clips, and infill panel options, see pages 429-430

## PHYSICAL DATA - Natural Variations

### Material

PSC® certified fire retardant medium density fiber-board with face-cut veneers (SW-COC-003601). For more information about FSC-certified products or to view our FSC certification letter, visit armstrongceilings.com/woodworksfsc

## Surface Finish

Clear or tinted semigloss coating

**Fire Performance**ASTM E84 surface burning characteristics. Flame
Spread Index 25 or less. Smoke Developed Index 50

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

### **Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained throughout the life of the product.

### Specification Consideration

Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

**Warranty** Details at armstrongceilings.com

Weight; Square Feet

## PHYSICAL DATA - Images Finishes

Fire retardant medium density fiberboard with high quality printed visual.

### Surface Finish

Clear semigloss coating

## Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less

## ASTM E1264 Classification

Composite - Fire Class A

**Application Considerations** Images finishes feature a high-definition print finish. A pattern repeat will occur approximately every 30". It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F must be maintained throughout the life of the product

Details at armstrongceilings.com

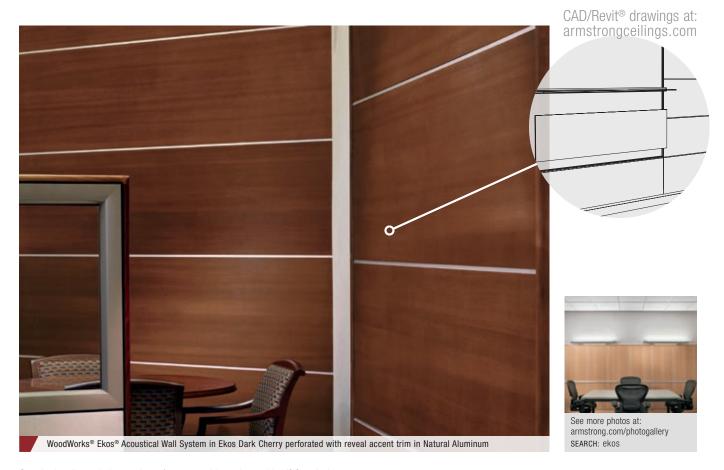
Panel Weight; Square Feet/Carton 2.2 lbs/SF (Bulk packed)

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## WOODWORKS® Ekos®

## Standard Wall Panels



Standard wall panels in a variety of veneers with no detectable VOC emissions.

## **KEY SELECTION ATTRIBUTES**

- · Panels can be installed horizontally or vertically
- · Can help contribute to LEED® credits with no added formaldehyde and high-recycled content
- · Less expensive and easier to install than custom millwork

## **VENEERS**

Due to printing limitations, shade may vary from actual product.



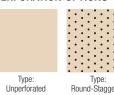
Ekos Maple





Ekos Mahogany





Type: Round-Staggered

Ekos Perforation Hole Size: 0.4mm [.015"] % Open Area: 5.7%



## WOODWORKS® Ekos®

## Standard Wall Panels

RECYCLED Calculate LEED contribution at armstrongceilings.com/greengenie

**PERFORMANCE** 

## VISUAL SELECTION

Item No. ◆	Description	Dimensions (Inches)	Pcs/Ctn	Ekos Finishes	Acou NRC F A (Mou	Ď	Acou STC Ra 1 side	ating*	VOC Formaldehyde	Recycling Program
Unperforated	Panels									
5800	8' Ekos Wall Panel Unperforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	N/A	N/A	43	46	No added	Yes
5801	9' Ekos Wall Panel Unperforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	N/A	N/A	43	46	No added	Yes
5802	Nominal 10' Ekos Wall Panel Unperforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	N/A	N/A	43	46	No added	Yes
Perforated Pa	anels									
5803	8' Ekos Wall Panel Perforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	0.45	0.50	43	46	No added	Yes
5804	9' Ekos Wall Panel Perforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	0.45	0.50	43	46	No added	Yes
5805	Nominal 10' Ekos Wall Panel Perforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	0.45	0.50	43	46	No added	Yes
Unperforated	Horizontal Panels									
5970	8' Ekos Horizontal Wall Panel Unperforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	N/A	N/A	43	46	No added	Yes
5971	9' Ekos Horizontal Wall Panel Unperforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	N/A	N/A	43	46	No added	Yes
5972	Nominal 10' Ekos Horizontal Wall Panel Unperforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	N/A	N/A	43	46	No added	Yes
Perforated H	orizontal Panels									
5973	8' Ekos Horizontal Wall Panel Perforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	0.45	0.50	43	46	No added	Yes
5974	9' Ekos Horizontal Wall Panel Perforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	0.45	0.50	43	46	No added	Yes
5975	Nominal 10' Ekos Horizontal Wall Panel Perforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG	0.45	0.50	43	46	No added	Yes

<sup>◆</sup> When specifying or ordering, please include pieces/carton and color suffix. EXAMPLE: 5805 4 H G - for nominal 10' perforated panels in Ekos Mahogany finish.

### **ACCESSORIES**

For installation splines, corners, chair rails, etc., see pages 461-462 in catalog, Woodworks Ekos Brochure, or armstrongceilings.com/ekos

### PHYSICAL DATA

## Panel Material

Mineral fiber with real wood veneers. Face veneers are quarter-cut, random-matched Anigre or Makore veneers stained to the Ekos® finishes.

## Panel Surface Finish

Tinted, no-solvent coatings on face veneers.

Accessory Material Milled solid wood stained to coordinate with Ekos finishes. Extruded aluminum.

Wall Construction
Wall construction is one layer 5/8" drywall each side of 3-5/8" metal stud, with Ekos panels attached on one or both sides.

Fire Performance Class B fire performance per IBC. Flame Spread Rating of 50 or less and Smoke Developed Classification of 100 or less when tested per ASTM E84 or CAN/ULC S102.

## **Application Considerations**

Due to the natural characteristics of veneers, variations in color and grain can be expected. Do not mix panels from different lots. Veneered panels may also darken over time.

It is very important that WoodWorks® Ekos panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained.

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© 2016-2017 AWI Licensing LLC Printed in the United States of America Ekos wall panels are not recommended for use in high-traffic or high-impact areas. For these areas, contact TechLine at 1 877 276-7876 to explore WoodWorks custom wall systems.

Ekos wall panels may be installed horizontally. For more details, see armstrongceilings.com/walls.

**Warranty** Details at armstrongceilings.com

Weight/Square Feet 1.6 lbs/SF



<sup>\*</sup> See wall construction in physical data below for test wall construction.

LOCATION DEPENDENT

Wall partitions in a variety of translucent colors and patterns. **KEY SELECTION ATTRIBUTES** 

- · Coordinate with Armstrong ceilings or other interior finishes including Infusions Walls, Lay-in Panels, and Canopies, SoundScapes<sup>®</sup> Blades<sup>™</sup> and Shapes, or Create!<sup>™</sup> ceilings.
- · Standard products create a custom look
- · Hang individually or in groups
- · Panels and installation hardware packaged in one complete kit
- · For Infusions panels, see pages 207-210. For Infusions® Blades™, see page 55. For Infusions® Shapes, see page 84.
  For Infusions® Canopies, see page 85.
  For Infusions™ Walls, see page 460.

For more information, visit armstrongceilings.com/infusions.





COLORS/PATTERNS Due to printing limitations, shade may vary from actual produrct

Solids - SoundScapes® Coordinating Colors



Refined



Refined Reef



Lagoon (TRL)



Refined Plum



Refined Tangerine (TRT)



Refined Cranberry (TRC)



Refined Black

Patterns - Goldtones



Honey

Canvas





Gold

Copper



Copper (TCC)

Color

Silver



Arbor

Pcs/Ctn

3 Clamps

## VISUAL SELECTION

Item No. ◆ Dimensions (Inches) Color

INFUSIONS™ Partitions

Joining Kits must be ordered separately

5845\_ \_ \_

24 x 72 x 1/4" ◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 5845 IRK.) NOTE: Ceiling Hanging Kit and Floor Mounting Kit hardware included with panels

## **ACCESSORIES**

Item No.	Description
5827	Joining Kit

## PHYSICAL DATA

Material PETG

Surface Finish Smooth

### Fire Performance

Infusions® panels have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.

Contact TechLine at 1 877 ARMSTRONG for specific U.S. and Canadian fire performance data

## Installation and Design Considerations

See above

Do not allow panel edges to get wet. Infusions panels are not approved for exterior application.

Panel kits include ceiling hanging kit and floor mounting kit hardware. Floor mounting hardware is optional, but recommended. Floor mounting hardware requires field drilling pilot holes in panels.

Linking kits must be ordered separately. Panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F.

## Warranty

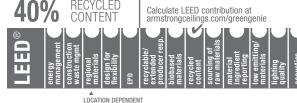
Details at armstrongceilings.com

### Weight; Pieces/Carton

Panel weight – 25 lbs 2 pieces/carton Carton weight – 55 lbs



## INFUSIONS™ Walls



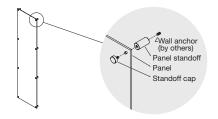
Wall System available in translucent colors and patterns that can be hung individually or in a group.

## **KEY SELECTION ATTRIBUTES**

- · Coordinate with Armstrong ceilings or other interior finishes; i.e., Infusions® Partitions, Lay-in Panels, and Canopies, SoundScapes® Blades™ and Shapes, or Create!™ ceilings
- · Factory-drilled to accept Point Support hardware kit
- · Aluminum Point Support Kit offers contemporary sleek visual
- · For Infusions panels, see pages 207-210. For Infusions® Blades™, see page 55. For Infusions® Shapes, see page 84. For Infusions® Canopies, see page 85.

For Infusions<sup>™</sup> Partitions, see page 459.

For more information, visit armstrongceilings.com/infusions.



## $\textbf{COLORS/PATTERNS (Partial List)} \quad \textbf{Due to printing limitations, shade may vary from actual product.}$

Linen



Honey Canvas Spun Copper

(TSC)

Infusions™ Walls 24" x 96" in Spun Copper

Crushed Copper (TCC)

Linen Gold

(TLG)





(TBL)†

Crystalline Silverado

(TSV)

Crystallines









(TNS)

Tones-on-tones



(TCA)

Arbors



(TOA)

† Color may vary panel to panel.

## $\textbf{COLORS/SOLIDS} \quad \text{Due to printing limitations, shade may vary from actual product.}$

### Solids



Inspiration Ice (TNC)



Calm Water (TCW)







Renewal (TAR)





Happiness (TSH) Creativity (TBD)









SoundScapes® Coordinating Colors



Refined

Lagoon (TRL)

(TCP)

Tranquility

Teal (TTT)



(TPB)



Iris (TSI)



Bliss (TBB)



(TSE)





(TRK)

Tangerine

(TRT)

Refined Refined Black

(TRR)

(TRB)

Refined Plum (TRP)

VISUAL SELECTION

Item No. ◆	Dimensions (In	ches)	Colors	Pcs./Pck.
INFUSIONS™ Wall	S			
5824	24 x 96 x 1/4"		See above	2

◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 5824 <u>T C P.)</u> NOTE: Panel kit does not include hardware. Infusions™ Wall panel hardware kit must be ordered separately

## **ACCESSORIES**

Item No.	No. Description		Pcs./Ctn.		
5848	Infusions Wall Panel Hardware Kit	Aluminum	16 Point Supports		

NOTE: Wall Anchor not provided in kit. Point Support includes panel standoff and standoff cap.

### PHYSICAL DATA

Material PETG

Surface Finish

## Fire Performance

Infusions™ panels have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.

TechLine / 1 877 276 7876

armstrongceilings.com/walls (search: infusions walls) BPCS-5102-617

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

#### Installation and Design Considerations Do not allow panel edges to get wet.

Infusions panels are not approved for exterior application. Natural Linen and Blue Linen colors may vary panel

Wall anchor hardware is provided by others. A minimum gap of 1/4" is required between panels. Panels are pre-drilled for Point Supports.

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Panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F. There is potential for limited deflection of panels.

Warranty Details at armstrongceilings.com

## Weight; Pieces/Pack Panel weight – 27 lbs 2 pieces/pack (Bulk packed)



## WOODWORKS® WALLS FAMILY - Accessories

## ACCESSORIES - WOODWORKS® STANDARD WALL PANELS AND CHANNELED STANDARD WALL PLANK

( <u>(</u> (;

	Item No. ◆	Description	Dimensions (Inches)	Color/Finish	Pcs/Ct
	5855	4" Base Molding	100"	NMP, NLC, NDC, BAP, BAN, MP, LC, DC, HG	Bulk
	5856	6" Base Molding	100"	NMP, NLC, NDC, BAP, BAN, MP, LC, DC, HG	Bulk
7	5857	Finish Molding (direct-applied)	100" [08], 112" [09], or 122" [10]	DC, HG, LC, DC	Bulk
	5907	1.875" Finish Molding (with furring strips)	100" [08], 112" [09], or 122" [10]	NMP, NLC, NDC, BAP, BAN	Bulk
	5867	Inside Corner Molding	100" [08], 112" [09], or 122" [10]	NMP, NLC, NDC, BAP, BAN	Bulk
	5851	Peak Corner (Solid Wood)	96" [08], 108" [09], or 118" [10]	MP, HG, LC, DC	Bulk
	5852	Bullnose Corner (Solid Wood)	96" [08], 108" [09], or 118" [10]	MP, HG, LC, DC	Bulk
A STATE OF THE STA	5859	Corner Installation Spline (Concealed)	96" [08], 108" [09], or 118" [10]	Plastic (X) or Aluminum (Y)	Bulk

ACC	CESSORIES	– WOODWO	rks stan	dard Wali	_ PANELS	ONLY

Installation	Item No.	Description	Lengths (Inches)	Color/Finish	Material	Pcs/Ctn
663910		Wall Installation Spline (aluminum)	120"	Black (BL), Natural Anodized (NA)	Aluminum	1
	6408	Edge Banding for Wall Spline (PVC)	300"	See colors on page 421	_	1
	5672	Z-clip	2"	Aluminum	_	250
	5673	Z-clip Bar	72"	Aluminum	_	20

When specifying or ordering, include the appropriate finish suffixes.

## ACCESSORIES - CHANNELED STANDARD WALL PLANK ONLY

 Item No.	Description	Dimensions	Color	Pcs/Ctn
5389	Channeled Clip	N/A	Black	250

## **INFILL PANELS**

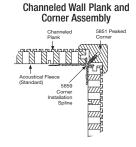
Item No.	Description	Dimensions	Color	Pcs/Ctn
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige - Matte	12
8200100	1" Fiberglass Infill Panel	24 x 24 x 1"	Black - Gloss	12

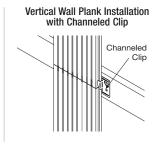
<sup>◆</sup> When specifying or ordering base molding or spline, include the appropriate 2- or 3-letter color suffix (e.g., 585508 NM P) When specifying or ordering other accessories, include the appropriate length suffix and finish/material suffixes. EXAMPLES: 5867 Q 9 N D C − 9' Inside Corner Molding in Natural Variations" Dark Cherry; 5859 Q 9 X − 9' Corner Installation Spline in Plastic

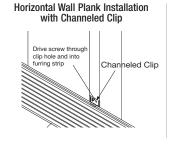
#### COLORS NV Maple (NMP) NV Light Cherry (NLC) NV Dark Cherry (NDC)

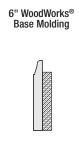
Bamboo Patina (BAP) Bamboo Native (BAN) Ekos Maple (MP) Ekos Light Cherry (LC) Ekos Dark Cherry (DC) Ekos Mahogany (HG)

## **INSTALLATION DETAILS**













## SOUNDSOAK® & WOODWORKS® EKOS® WALLS FAMILY - Accessories

## ACCESSORIES - WOODWORKS® EKOS® WALL PANELS ONLY

	Item No. ◆	Description	Lengths	Finishes	Material
G	5850A	Peak Accent Trim	96", 108", 120" (08) (09) (10)	MP, LC, DC, HG	Solid Wood
G	5850B	Bullnose Accent Trim	96", 108", 120" (08) (09) (10)	MP, LC, DC, HG	Solid Wood
Y	5850C	Reverse Bead Accent Trim	96", 108", 120" (08) (09) (10)	MP, LC, DC, HG	Solid Wood
G	5850D	Bead Accent Trim	96", 108", 120" (08) (09) (10)	MP, LC, DC, HG	Solid Wood
Ţ	5850J	Cap Accent Trim	96", 108", 120" (08) (09) (10)	NA (Natural Anodized) BL (Black Anodized)	Aluminum
S	5850K	Reveal Accent Trim	96", 108", 120" (08) (09) (10)	NA (Natural Anodized) BL (Black Anodized)	Aluminum
	5858[##][M] = 5858	Wall Installation Spline (concealed)	96", 108", 120" (08) (09) (10)	Plastic (X) or Aluminum (Y)	Plastic or Aluminum
	5860 X	Wall Bead Installation Spline <sup>†</sup>	96", 108", 120" (08) (09) (10)	Black Plastic	Plastic

This accessory should be used when Decorative Accent Trims are not selected.

## CHAIR RAIL ACCESSORIES - SOUNDSOAK™ STANDARD AND WOODWORKS® EKOS® WALL PANELS

Item No. ◆	Description	Lengths	Colors	Substrate
5861	Mounting Rail	100"	MP, LC, DC, HG, XX	Solid Wood
5862	Rail Spacer for Soundsoak 85	100"	XX	Solid Wood
5863	Rail Insert	100"	MP, LC, DC, HG, BL, XX	Solid Wood
5963NA	Rail Insert – Aluminum Finish	96"	Natural Anodized (NA)	Solid Wood and Aluminum
5864	Rail Cap	100"	MP, LC, DC, HG, XX	Solid Wood
5865	Extended Rail Cap for Soundsoak 85	100"	MP, LC, DC, HG, XX	Solid Wood
5866	Easel Ledge	100"	MP, LC, DC, HG, XX	Solid Wood

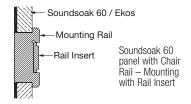
Insert 2-letter color suffix when specifying or ordering. EXAMPLE: 5861 H G - Mounting Rail in Mahogany NOTE: Unfinished wood can be field-painted.

### ACCESSORIES - SOUNDSOAK STANDARD ONLY

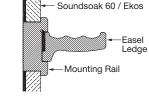
	000112007111011111201112					
	Item No. ◆	Description	Lengths	Finishes		
	3856	Impact Corner	120"	See page 311		
le:						
0	4062*	1" J-Molding	120"	BL, GW, FG, LT, SA		
ا ا						
0	4064*	3/4" J-Molding	120"	BL, GW, FG, LT, SA		
'ال						
0	4065A	3/4" Low-Profile J-Molding	120"	BL		

 <sup>◆</sup> Insert 4-letter color suffix using surface type and color suffixes from page 311. EXAMPLE: 3856 <u>L D O B</u> – Impact Corner Lido™ Oak Bluffs
 \* Insert 2-letter color suffix. EXAMPLE: 4062 <u>B L</u> – 1" J-Molding in Black

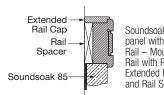
**INSTALLATION DETAILS** 



TechLine 877 276 7876 armstrongceilings.com/walls



Soundsoak 60 panel with Chair Rail - Mounting Rail with Easel Ledge (field-painted)







CHAIR RAIL ACCESSORY COLORS

Light Cherry

(LC)

Black

(BL)

Dark Cherry

(DC)

Natural

Anodized (NA)

Frost Grey

Maple

(MP)

Mahogany (HG)

Unfinished Wood (XX)

Black

Light Tone

(LT)

J-MOLDING COLORS

Grid White

(GW)

Sand

(SA)







NOTE: When a decorative accent trim is selected, you must also choose a wall installation spline.

When specifying or ordering, insert the appropriate length suffix and finish suffix. EXAMPLE: 5850A 0 8 M P 96" peak accent trim in Maple



helping to bring your one-of-a-kind ideas to life



## **KEY SELECTION ATTRIBUTES**

- · Custom colors and perforations available
- Durable Washable, Scrubbable, Soil-resistant
- Coordinate with MetalWorks<sup>™</sup> ceilings
- Perforated panel with acoustical backing improves sound quality and reduces noise within a space





helping to bring your one-of-a-kind ideas to life



## **KEY SELECTION ATTRIBUTES**

- · Custom finishes and perforations available
- FSC® certified options available
- Coordinate with WoodWorks® ceilings
- Perforated panel with acoustical backing improves sound quality and reduces noise within a space



 $\mathsf{FSC}^{\otimes}$  is a registered trademark of FSC Forest Stewardship Council, A.C., license code  $\mathsf{FSC}\text{-}\mathsf{C007626}$ 

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## ARMSTRONG® CEILINGS & WALLS GREENPRINT

## Our Sustainability Commitment

Armstrong® Products, LEED® Contributions, Performance



Visit armstrong.com/corporate/sustainability to learn more about our sustainability commitment

Armstrong® Ceiling and Wall Systems provide reliable performance and contributions to LEED® as well as a range of inspiring design choices.



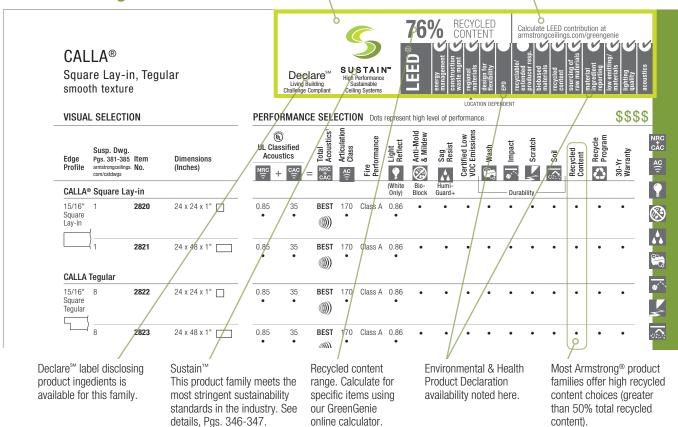


# OVERVIEW — SUSTAINABLE PRODUCT INFORMATION & ONLINE TOOLS

In this Catalog and Online

All sustainability information is in this field.

On individual product pages, you'll see a LEED® summary. This box is a quick review of which credits this family of products may contribute to. Visit the Green Genie™ tool online for specific product details.



## **LEED Contribution Calculator**

Green Genie LEED Online Calculator and Documentation



armstrong.com/greengenie
Powered by EcoScoreCard

Our online LEED® calculator helps you to research, calculate, and document which Armstrong® Ceiling and Wall Systems products best meet the environmental criteria needed for your project. Access the tool 24/7 and get the LEED® information and documentation you need for the design or submittal process.

- Calculate Sustainabilty Contributions (recycled content, FSC®, recyclability)
- · Regional Materials eligibility
- . LEED® Submittal Letter
- Revit® models from Armstrong Ceilings to be integrated with qualifying criteria for LEED® point calculations, powered by EcoScoreCard.

## RESOURCES



#### MORE ONLINE TOOLS:

See our Recycling/Diversion Savings Calculator and Environmental Impact Calculator descriptions, page 357.



## **Material Transparency**

Clean +Simple = Sustair

of concern per Living Building Challenge

Red List)

(Meet today's most stringent industry sustainability standards with the Sustain Portfolio)

#### Our Sustain™ portfolio is the first and only portfolio of products that meet the highest sustainability standards in the industry.

Sustain<sup>™</sup> ceiling systems contribute to better spaces. Here's how:

- Contribute to LEED® V4 (including new Materials and Resources credits)
- · Have Health Product Declarations (HPDs) which tell you what's in the products
- Are free of Red List chemicals per Living Building Challenge™ 3.0 (including no added formaldehyde)
- Have Declare<sup>™</sup> labels easy reference "nutrition labels"

- · Meet California Department of Public Health (CDPH) low-emissions standards
- Have Environmental Product Declarations (EPDs) which tell you the impact of the products
- Contribute to Living Building Challenge<sup>™</sup>
- Contribute to WELL Building Standard™

MetalWorks<sup>T</sup>

Snap-in

Grid System for Soffits

White (WH) Blizzard White (ZW)

Silver Grev (SG)

#### Armstrong® Sustain™ Portfolio Mineral Fiber/Fiberglass Panels – over 200 items Tectum® Panels Lyra® PB Optima® PB Canyon® Calla® **Ultima®** Cirrus<sup>®</sup> Tectum® Plant-based Binder Plant-based Binder Ultima® Lvra® PB High CAC Optima® PB Health Zone™ Health Zone™ MetalWorks<sup>™</sup> Panels – over 150 items Whitelume (WHA) Silverlume (SIA)

MetalWorks™

Torsion Spring

## Suspension Systems – over 180 items

MetalWorks<sup>™</sup>

Clip-on



#### Trim & Transitions – over 285 items



MetalWorks™

Axiom® Classic, Vector, Profiled, Knife Fdge®, Interlude® Soft Edge, Paired



Axiom® Transitions. Moldings & Column Rings. Glazing Channel



MetalWorks<sup>T</sup>

Axiom® Shade Pockets



Direct & Indirect Light Coves



Axiom® Gun Metal Grey



not available in colors

Gun Metal

Unperforated (M1) MetalWorks™ finishes included

in the Sustain™ Portfolio

It's simple to find and specifiy sustainable ceiling systems; just look for the Sustain icon.





## **Material Transparency**

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
MR BD&C	Building Life Cycle Reduction	BD&C - 3	ARMSTRONG® PRODUCT EPDS  BD&C, Option 4: Use Armstrong third party-certified Product EPD or Embodied Energy (EE) for Whole Building LCA Calculations.  ARMSTRONG® High Recycled Content (CEILING⁻²-CEILING⁻ⁿ) PRODUCTS  ID&C, Option 1 − Reuse of nonstructural elements: Specify Armstrong® Ceiling-2-Ceiling⁻™ products − new ceilings made of reclaimed ceilings that are returned to our recycling program with a high level of post-consumer recycled content.
MR ID&C	Interiors Life Cycle Impact Reduction	ID&C - 1-3	
MR BD&C	Building Disclosure and Optimization –	BD&C - 1	ARMSTRONG® PRODUCT EPDs BD&C, Option 1: Use Armstrong type III Product EPDs.
MR ID&C	Environmental Product Declaration	ID&C - 1-2	
MR BD&C	Building Disclosure and Optimization –	BD&C - 1-2	ARMSTRONG® HEALTH PRODUCT DECLARATIONS & DECLARE™  BD&C, Option 1: Material Ingredient Reporting: Health Product Declarations and Declare™ labels qualify for Manufacturer Inventory (1 Pt). All Sustain™ Products contribute to this credit.
MR ID&C	Material Ingredients	ID&C - 1-2	



#### **Environmental Product Declarations (EPD)**

We're committed to helping you reduce the environmental impact of the buildings you create... from product design and raw material selection, to how products are made and delivered. Now, we have Environmental Product Declarations for all major product families, including a view of the total ceiling system.

An Environmental Product Declaration (EPD) reports on the environmental impacts of our products in the areas of energy, carbon, water, and other categories from our product Life Cycle Assessments (LCA).





#### Health Product Declarations (HPD)

Armstrong® Ceilings and Walls is committed to providing busy architects, designers, and end users with the ingredient data they are seeking so that they can make wiser choices about healthy materials. An Health Product Declaration™ (HPD) is a standard format for reporting product ingredients and associated health information.

The HPD objectively provides the critical information needed to support accurate supply chain disclosure and informed decisions by building designers, specifiers, owners, and users. The Health Product

Declaration™ format was developed by the Health Product Declaration Collaborative™ which is composed of product manufacturers and building experts. Armstrong® Ceilings is actively involved in the Health Product Declaration Collaborative.



# **Declare**.



# Armstrong Ceilings is the first and only ceilings manufacturer committed to Declare.

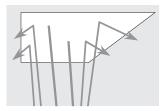
Declare is a 'nutrition-label' developed by International Living Future Institute for manufactured products used in indoor environments. The Declare label provides a clear, informative method to disclose product ingredients.



## **Energy Savings & Flexibility**

When designing an energy-efficient building, people tend to focus on everything from insulation to window placement, but in fact, ceiling systems can also play a role in increasing building efficiency. Here's a look at ceiling contributions for building efficiency.

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
EQ	Interior Lighting — Lighting Quality	BD&C – 1 ID&C – 1	ARMSTRONG® HIGH LIGHT-REFLECTANT CEILINGS AND WALLS BD&C, Option 2: Choose Armstrong Hi-LR ceilings (LR 0.85) or walls (0.60) to aid in extending daylighting into the space.  BD&C, Option 2: Specify Armstrong® TechZone® Ceiling System lighting partners and LED lighting as another option to satisfy LEED® criteria.
MR BD&C MR ID&C	Building Life Cycle Reduction Interiors Life Cycle Impact Reduction	BD&C - 3 ID&C - 1-3	DC FLEXZONE™ SUSPENSION SYSTEMS  ID&C, Option 3 – Design for Flexibility: Install DC FlexZone™ Suspension Systems to distribute safe, low voltage direct current (DC) power, and improve the flexibility and reuse of interior spaces, armstrong.com/dcflexzone.  ARMSTRONG® ACCESSIBLE CEILING SYSTEMS  ID&C, Option 3 – Design for Flexibility: Specify any of a wide range of both upward and downward accessible Armstrong ceilings in mineral fiber, fiberglass, metal, and wood substrates.



Typical acoustical ceiling (LR 0.75) reflects just 75% of the light striking its surface.



High LR ceilings are engineered to reflect up to 90% of the light striking their surface.

#### High light-reflectant ceiling\* benefits can include:

- . Total building energy savings up to 11%
  - 23% reduction in lighting energy at same light level (fewer indirect lighting fixtures and lamp/ballast replacements)
  - 7% savings in cooling system energy
- · Increased occupant satisfaction and productivity
- · Ability to contribute to LEED® credits
- More effective use of energy budgets\*\*



**This Icon** is used throughout this catalog to identify Armstrong products with high light-reflectance properties.



DC FlexZone main beams carry DC power.



Flexible, safe low voltage power supply housed in ceiling clouds.

#### Benefits of DC FlexZone:

- Low voltage DC power distributed through the ceiling suspension system
- · Repurpose and reconfigure without rewiring
- . Simple, flexible plug and play modularity
- Customize your space with devices where you need them
- Help accelerate use of DC-based LED lighting
- Enable direct use of on-site renewable energy, like wind and solar



- \* A high light-reflectance ceiling has LR 0.83 or greater per ASTM E1477-98 as referred to in ASTM E1264-98
- \*\* Based on standards like those developed by the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) and the International Energy Conservation Code (IECC) currently being adopted across the U.S.





## **Recycling Ceilings**

Recycling can be as good for you as it is for the Environment. It reduces waste, saves money, and is a smart alternative to dwindling landfill capacity. When ceilings are recycled by Armstrong Ceilings, higher post-consumer recycled content (Ceiling-to-Ceiling<sup>™</sup>) products are created.

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
MR	Construction Waste Management Now a Prerequisite — ID at least 5 materials	MR Required MR 1-2	ARMSTRONG® CEILING RECYCLING PROGRAM  MR: Add the Armstrong Ceiling Recycling Program to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage. Ceilings qualify as one nonstructural material. Available throughout the U.S. and Canada.  MR, Option 1: Ceilings qualify as a material stream to meet 50-75% diversion.  MR, Option 2: Reduction in Total Waste: Specify products with minimal waste; Show ceiling waste reduction over drywall.

## It's easy to recycle.

#### 1 Register 2 Confirm 3 Remove 4 Call us

For Details: Register online at armstrongceilings.com/recycling or call the Armstrong® Ceilings Recycling Center, 1-877-276-7876 (press option 1, then 8).

#### Two Options to Recycle:





2 Container

1 Palletize

#### The first Program in the Industry: Over 18 Years of Experience

In 1999, Armstrong Ceilings introduced the industry's first ceiling recycling program. To date, we have recycled more than 195 million square feet of old ceiling material. That's more than 1,073,000 tons of construction waste that's been diverted from landfills.



This Icon is used throughout this catalog to identify Armstrong products that are recyclable through our Armstrong Ceiling Recycling Program

## **Environmental Footprint**

Credit	LEED® Credit	Points	Armstrong Ceilings Contribution
MR BD&C MR ID&C	Building Life Cycle Reduction Interiors Life Cycle Impact Reduction	ID&C - 1-3	ARMSTRONG® CEILING-2-CEILING™ PRODUCTS ID&C, Option 1 – Reuse of nonstructural elements: Specify Armstrong® Ceiling-2-Ceiling™ products – new ceilings made of reclaimed ceilings that are returned to our recycling program with a high level of post-consumer recycled content.

#### RETURN AND RECYCLE CEILING PANELS

#### What Do We Do With Material from the Recycling Program?

We turn it into new ceilings.

The reclaimed ceilings that are returned to our recycling program are made into new ceilings with a high level of post-consumer recycled content. Look for the Ceiling-2-Ceiling icon that identifies these products.



#### **ONLINE TOOLS**

#### Recycling/Diversion Savings Calculator

The Armstrong Ceilings Recycling/ Diversion Savings Calculator lets you track your diversion and recycling savings online. Print, email, or download to show your savings!

#### **Environmental Impact Calculator**

Our Environmental Impact Calculator takes your square footage estimate of recycled panels and calculates the savings of greenhouse gases, waste diverted from landfills, virgin raw materials, energy, and potable water saved.



# NRC + CAC = Total Acoustics Performance® ((()))

## **Acoustic Performance**

#### The ideal combination of sound absorption (NRC) and sound blocking (CAC) in one ceiling system.

Acoustics play an integral role in any space. Surface finishes selected must enhance the indoor environmental quality of a space relative to its functionality. Armstrong® ceilings with Total Acoustics® performance reduce noise levels in interior spaces, allowing for an ideal combination of high performance sound absorption and room-to-room sound attenuation to maximize speech intelligibility.

#### Total Acoustics® Portfolio

#### **BEST**

## Total Acoustics® = NRC 0.80+ and CAC 35+

High traffic spaces or multipurpose spaces where maximum sound absorption and sound blocking are needed to help keep noise levels down and prevent disruption to adjacent spaces.



Lyra® High CAC



For WoodWorks®, MetalWorks™ and Tectum® Solutions:

Acoustics performance for WoodWorks®, MetalWorks<sup>™</sup>, and Tectum<sup>®</sup> ceilings is determined by the product, perforation, and infill panel. (Tectum® ceilings are not perforated)













Channeled Tegular

Tectum<sup>®</sup> Tegular

#### **BETTER**

Total Acoustics® = NRC 0.70-0.75 and CAC 35+

Spaces where strong sound absorption and sound blocking are needed for all-around acoustical performance.



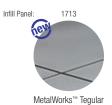








Cirrus® & Cirrus® High NRC Fine Fissured™









Channeled Tegular



WoodWorks® Grille Tegular

#### GOOD

Total Acoustics® = NRC 0.60-0.65 and CAC 35+

Spaces where less sound absorption is required but sound blocking is needed to maintain privacy between adjacent areas.











Cirrus® Second Look®

Cirrus® Profiles

1713

WoodWorks®



MetalWorks<sup>™</sup> Tegular





LEED® is a registered trademark of the U.S. Green Building Council

Channeled Tegular



#### Choose Total Acoustics® Panels for Every Space

Open plan areas today can become closed plan areas tomorrow, making both absorption (NRC) and blocking (CAC) important for the acoustical needs of the space.

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
EQ	Acoustic Performance (now all Rating Systems)	BD&C - 2 ID&C - 2	ARMSTRONG ACOUSTIC CEILINGS & WALLS BD&C - 2, Option 2: Choose Armstrong® Wall Panels to add to drywall for a higher combined STC value, significantly reducing Sound Transmission.
			BD&C - 2, Option 2: Armstrong® acoustic ceilings absorb sound, contributing to the reduction of Reverberation Time and increased speech intelligibility. Schools must meet ANSI Standard S12.60 contributing to the reduction of reverberation time.

Setting	Situation	Acoustical Suggestion	Recommended Ceiling System	
Workplace				
Open Office	Employees have difficulty focusing on tasks due to noisy office space. Contributors of distractions	Worker effectiveness can be increased with ceilings that provide Total Acoustics® performance	Lyra® High CAC, Optima®, Calla®, TechZone® Ceiling Systems	
	include conversations of co-workers in collaboration areas, benching workstations, and use of speaker phones.	using high NRC products in open plan areas to absorb and block sound.	Ultima® High NRC, Cirrus® High NRC, Fine Fissured™ High NRC	
			Ultima®, Canyon®, Cirrus®, Formations™ Acoustical Clouds	
Closed Office	Concentrating on technical work is difficult when sound can be heard through doorways, windows,	Ceilings that provide Total Acoustics® performance have high CAC and NRC to provide privacy from	Lyra® High CAC, Ultima® High CAC, Cirrus®, WoodWorks®	
	and HVAC ducts transferring sound from room to room. Employees ranked acoustics the lowest	adjoining offices and corridors.	Ultima, Calla®, Cirrus, Mesa™ High CAC	
	of key attributes in the workplace.		WoodWorks® Tegular, WoodWorks® Channeled, MetalWorks™ 3D, MetalWorks™ Tin, WoodWorks® Grille Tegular, MetalWorks™ Tegular, MetalWorks™ Mesh	
			TechZone® Ceiling Systems	
Education				
Classroom	Excessive reverberation inhibits student understanding and increases teacher vocal strain. Studies indicate that students typically hear only 3 out of every 4 words, missing 25% of what is	Ceilings with Total Acoustics® performance provide shorter reverberation time, better sound	Ultima, Optima, Lyra® High CAC, TechZone Ceiling Systems	
		absorption, and sound blocking, which promotes higher speech intelligibility.	School Zone® Fine Fissured™, Cirrus® High NRC	
	said in the classroom.		School Zone Fine Fissured, Cirrus	
Cafeterium	Open multi-purpose spaces change from cafeterias to auditoriums to gymnasiums requiring different acoustical needs depending on use.	Sound absorption is key and can be accomplished with Total Acoustics® ceilings with high NRC products along with CAC for sound blocking to prevent sound from traveling into adjacent classrooms.	WoodWorks® Tegular, WoodWorks® Channeled, MetalWorks™ 3D, MetalWorks™ Tin, WoodWorks® Grille Tegular, MetalWorks™ Tegular, MetalWorks™ Mesh, Lyra® High CAC, Tectum® Tegular	
			Calla®, Ultima®, Formations™ Acoustical Clouds	
			School Zone $^{\scriptscriptstyleTM}$ Fine Fissured $^{\scriptscriptstyleTM}$	
Healthcare				
Patient Room	The need to share private medical information between patients, doctors, and other medical staff	A ceiling with Total Acoustics® performance helps to block noise and control reverberation, and from	Ultima® High CAC, Ultima® High NRC, Ultima® Health Zone™, Ultima® Health Zone™ High NRC	
	without worrying about being overheard by others is key in a healthcare environment.	transferring noise to other spaces. The result is a private, secure environment for sharing confidential information, holding discreet conferences, and	Mesa™ High CAC, Fine Fissured™ High NRC, Ultima, Ultima® Create!™, Calla	
		understanding critical instructions.	Cirrus® High NRC, Mesa	
Lobby, Corridors,	Noise caused by hard surfaces, active corridors,	Spot absorption in larger open spaces, and	Optima® Health Zone™, Ultima® Health Zone™	
and Nurses' Station	busy nurses' stations, alarms, non-private treatment areas, and a 24/7 work environment all help to create sound levels that exceed those recommended by the World Health Organization.	cleanable, scrubbable ceilings with Total Acoustics® performance offer noise reduction and sound blocking in spaces with wall-to-wall ceilings, addressing excessive noise and reverberation.	Lyra® High CAC, Optima® High CAC, Calla, Ultima, WoodWorks® Tegular, WoodWorks® Channeled, MetalWorks™ 3D, MetalWorks™ Tin, WoodWorks® Grille Tegular, MetalWorks™ Tegular, MetalWorks™ Mesh	
			Cirrus®, Mesa™ High CAC	



NRC + CAC = Total Acoustics Total Acoustics Ceilings have an ideal combination of noise reduction and sound-blocking performance in one product

## Acoustic Performance

Acoustics Key Terms Whether your acoustical concerns are basic, specific, or revolve around achieving Total Acoustics® performance, here's a quick reference quide to help make acoustics terms a little more simple.

#### Reverberation

The persistance of sound in an enclosed space after the source of the sound has stopped. The level of the reverberant sound within a room is

dependent on both the volume of the room and the amount of sound absorption installed within the room, such that small hard surfaced rooms are "louder" than large well-treated rooms.



#### Sound Reflection

Intentional use of non-absorptive surfaces that enhance a lively acoustical sound quality, typically for nightclubs or music venues.



## NRC + CAC = Total Acoustics® Performance

## Noise Reduction Coefficient (NRC) – Absorption

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space where sound is reflected at many angles of incidence.

A ceiling system with an NRC < 0.50 is low performance, an NRC > 0.70 is high performance.

NRC is important in any space where reverberation time and noise levels are an issue.

- NRC is measured according to ASTM C423
- NRC is a key metric used in the Americas. Europe and other geographics use the weighted sound absorption coefficient  $\alpha_{...}$ .



#### Ceiling Attenuation Class (CAC) – Blocking

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces, such as private offices, and open spaces used for collaboration and focus areas.

A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC of 35 or higher is high performance.

CAC is important between closed spaces needing privacy and from closed rooms to adjacent spaces such as:

- · Closed offices to corridors
- · Classrooms to group learning
- · Healthcare offices and exam rooms to waiting rooms
- CAC is measured according to ASTM E1414.



#### Sabin

A measure of sound absorption provided by a material when installed within an architectural space. The number of sabin per unit is approximately equal to the total surface area of the unit (in square feet) that is exposed to sound, multiplied by the absorption coefficient of the material.

Sabin per unit is preferred to characterize the absorption

provided by an individual "space absorber," such as a baffle, blade, cloud, or canopy in:

- Open offices or retail spaces
- Open plenum areas
- Corridors/lobbies
- Absorption of sabin is measured according to ASTM C423.





∞



Acoustics Key Terms Whether your acoustical concerns are basic, specific, or revolve around achieving Total Acoustics® performance, here's a quick reference guide to help make acoustics terms a little more simple.

A wall system with an NRC < 0.50 is a low performing absorber, an NRC > 0.70 is a high-performing absorber. NRC is important in any space where reverberation time and noise levels are an issue.

- NRC is measured according to ASTM C423
- $\cdot$  NRC is a U.S.-based measure. Other geographics use the weighted sound absorption coefficient  $lpha_{w}$ .

#### **Articulation Class (AC)**

A measure for rating the attenuation of reflected speech passing over the top of wall partitions or furniture into the adjoining workstations.

A ceiling system with AC < 150 is low performance, whereas one with AC  $\geq$  180 is high performance.

AC is important between adjacent cubicles in open plan spaces:

- Office focus spaces
- Office collaboration areas
- Open plan healthcare/partial height cubicle areas
- AC is measured according to ASTM E1110 and E1111.



#### Sound Transmission Class (STC)

A measure for rating the performance of a wall system as a barrier to airborne sound transmission between adjacent closed spaces, such as offices.

A wall system with an STC < 35 is considered low performance, whereas one with an STC > 55 is high performance. STC is the wall equivalent of CAC.

STC is important between closed spaces and in many open plan spaces:

- · Closed offices, corridors
- · Open offices with dividers
- STC is measured according to ASTM E90.



#### **ONLINE TOOLS**

#### Online Reverberation Calculator

Our interactive web-based tool calculates reverberation and sound quality for speech intelligibility which is very important for the built environment. This tool allows you to hear the before and after difference. Providing recommendations for both new spaces and upgrades to existing spaces, this easy-to-use tool makes specifying recommended sound-absorptive ceilings and walls easy, and cost effective.

#### armstrongceilings.com/reverbtool



#### **MOBILE TOOLS**

### Sound Level Meter App From Armstrong® Ceilings

Visualize the noise in your space with the Sound Level Meter app by Armstrong Ceilings.

- Record the noise in your space with your iPhone® mobile device
- . See how it measures against recommended ranges for similar spaces
- If there's a problem, learn how to improve the acoustics







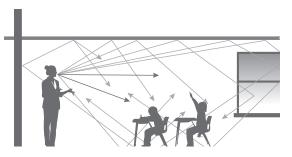
Speech Intelligibility — Why it's Important The quality of the acoustic environment in a classroom or learning facility is vital, since students must be able to understand the teacher to learn effectively. This ability is especially important to students with hearing impairments, very young children, and students for whom English is a second language. Teachers must also be taken into consideration, since vocal strain can contribute to fatigue, frustration, and even "burnout."

Ceiling panels with Total Acoustics® Performance provide the ideal combination of noise reduction (NRC) and sound-blocking (CAC) performance to help keep noise levels down and sound levels where you want them for optimum communications.

## NRC + CAC = Total Acoustics® Performance

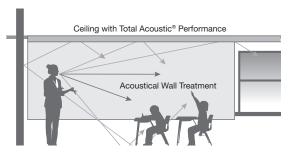
#### Hard Surface Classroom

Black arrows represent direct sound from teacher to student. Grev arrows represent reflected sound.



#### Acoustically Treated Classroom

The addition of sound absorbing materials reduces late arriving reflected sound, lowers reverberation time, and improves speech intelligibility.



The intelligibility of speech in a classroom depends on both reverberation time and the signal-to-noise ratio.

The signal-to-noise ratio, or S/N, is the ratio of the speech level reaching the student's ear relative to the background noise that interferes with hearing the speech.

The potential for good sound quality is determined by the architectural design as represented by reverberant sound and reverberation time. Protecting the sound quality as designed requires that the intruding background noise be kept low.

#### There are several ways to increase the signal-to-noise ratio:

- Raise speech level
- The teacher can speak louder, but, of course, runs the risk of vocal strain
- Reduce noise traveling through the ceiling plenum, from the floor above, or an adjacent classroom
- Choose a ceiling with a high CAC value; the higher the number, the better it acts as a sound barrier
- · Reduce noise traveling through the walls
- The new ANSI standard requires a minimum STC of 50 for a wall separating two adjacent classrooms. The higher the number, the better the performance.
- Reduce noise within the room
- Use a quiet heating/ventilation (HVAC) system

The reverberation time in a space is essentially the time it takes for the reflected sound within the space, such as from a loud hard clap, to become "inaudible." A long reverberation time is detrimental to good speech intelligibility, since the reflections of words just spoken can interfere with words now being spoken.

#### Sound-absorptive material can be added to the room to reduce reverberation time and help meet ANSI S12.60:

- Reduce reflected sound (reverberation time)
- Add sound-absorbing material to reduce reverberation.
- A ceiling with an NRC of at least 0.70 is recommended
- If installing a wood or metal ceiling, select an acoustic infill panel as indicated to achieve desired Total Acoustics® performance
- If the ceiling is high, Soundsoak™ wall treatments also will be beneficial





Speech Privacy — Why it's Important — The two leading sources of workplace dissatisfaction are lack of speech privacy and noise, both of which adversely affect work performance. In healthcare, maintaining patient confidentiality, including oral privacy, is a HIPAA requirement. Noise can also affect patient recovery and HCAHPS outcomes. Total Acoustics® ceiling panels provide the ideal combination of noise reduction and sound blocking to help keep noise levels down and private conversations private.

## NRC + CAC = Total Acoustics® Performance

OFFICE



#### **NEED**

Confidentiality in a private office or conference room

#### SOLUTION:

Total Acoustics ceiling to block sound to keep conversation private and decreased reverberation needed for focus

#### **Defining Speech Privacy Levels**

- ① CONFIDENTIAL partially overheard, but not understood
- 2 NON-INTRUSIVE/NORMAL can be overheard, partially understood
- P00R mostly overheard and understood
- 4 NO PRIVACY fully overheard and understood

#### Recommended Applications\*

Confidential Privacy:

Expected for most private offices, PI: 95%-100%.

Normal Privacy:

Allows people to think and concentrate and is expected for most open plan spaces. Pl: 80%-95%.

Marginal or No Privacy:

Common in many office environments.

\*Commonly recognized levels of Speech Privacy as defined by ASTM E1130.

## \_\_\_\_\_



#### NFFD.

Patient recovery and oral privacy

#### SOLUTION:

Total Acoustics ceilings provide sound blocking for recuperation and decreased reverberation for optimum communications

#### HIPAA, FGI & HCAHPS Guidelines in Healthcare

All healthcare facilities, including hospitals, doctors' offices, and pharmacies, need to comply with the Health Insurance Portability and Accountability Act (HIPAA). Hospitals also need favorable Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) ratings to receive certain funding. Fortunately, there are easy and economical ways to meet these oral privacy regulations and expectations in treatment and patient rooms, and waiting and reception areas. Armstrong® high-performance acoustical ceiling systems absorb and block sound to create a more quiet and therapeutic environment.

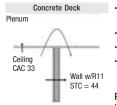
The FGI Guidelines for the Design and Construction of Healthcare Facilities also include recommendations for acoustical finishes and details, room noise levels, sound isolation, and sound masking and paging.

By using Total Acoustics® ceilings, you can help ensure compliance with HIPAA and FGI, and assure positive HCAHPS outcomes.

# Effective Building Design for Speech Privacy Using Sound-Blocking Techniques

Building design can have significant impact on speech privacy and construction costs. Below are typical construction scenarios showing how speech privacy is affected.

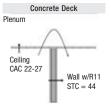
#### Scenario 1: Typical Design



- Mineral fiber ceiling (NRC 0.50/CAC 33)
- · Wall-to-ceiling
- · No plenum barrier
- Background noise at ASHRAE recommended 37 dBA

Privacy Index\*\* is less than 95%

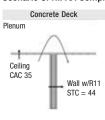
#### Scenario 2: Perceived Upgrade



- Fiberglass or stone wool ceiling (NRC 0.90/ CAC 22-27)
- · Wall-to-ceiling
- No plenum barrier
- Background noise at ASHRAE recommended 37 dBA

Privacy Index\*\* is significantly lower than 95%

#### Scenario 3: HIPAA Compliant Solution



- Mineral fiber ceiling (NRC 0.70/CAC 35)
  - · Wall-to-ceiling
  - · No plenum barrier
  - Background noise at ASHRAE recommended 37 dBA

Privacy Index\*\* is greater than 95% and confidential speech privacy is achieved

\*\*Privacy Index measurement and calculation are defined in ASTM E1130



## **UL Classified Acoustical Performance Summary**

## **Acoustic Performance**

Decident Family		Cound abo		officion had	. 400	-Ai	Published Value: Sound absorption <sup>®</sup>	Published Value: Sound Transmission <sup>c</sup>	Articulation Class	Total Acoustics
Product Family	125Hz	Sound abs	sorption co- 500Hz	efficients* – 1000Hz	e-400 mou 2000Hz	nting 4000Hz	NBC <sub>D</sub>	CAC□	ΨO	řΦ
oft Fiber										
Lyra®	0.75	0.95	0.79	1.00	1.03	1.00	0.95	_	190	_
Lyra® Concealed	0.70	0.84	0.78	0.99	1.06	1.01	0.9	_	190	_
Optima® 3/4"	0.81	0.94	0.76	0.93	1.05	1.01	0.9	_	180	_
Optima 1"	0.81	0.97	0.78	0.99	1.07	1.02	0.95	_	190	_
Optima® 1" w/CAC Backing	0.44	0.60	0.79	1.09	1.08	0.89	0.9	26	200	_
Optima 1.5"	0.73	0.95	0.92	10.60	1.03	0.94	1.00	_	200	_
Optima® 1.5" w/CAC Backing	0.51	0.85	0.91	1.13	1.09	1.01	0.95	26	200	_
Optima® Concealed	0.70	0.84	0.78	0.99	1.06	1.01	0.9	_	190	_
Optima® Concealed w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.8	26	190	_
Optima® Concealed w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.8	26	190	_
Optima® Health Zone™	0.72	1.00	0.80	1.01	1.06	0.98	0.95	_	190	_
Optima® Vector®	0.70	0.84	0.78	0.99	1.06	1.01	0.9	_	190	_
Optima® Vector® w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.8	26	190	_
Painted Nubby™ 3/4"	0.73	0.94	0.70	0.90	0.99	1.01	0.85	_	180	_
Painted Nubby 1"	0.81	0.97	0.78	0.99	1.07	1.02	0.95	_	190	_
Pebble™ Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.7	_	_	_
Pebble Perforated High NRC	0.74	0.78	0.68	0.88	0.78	0.66	0.8	_	_	_
Random Fissured™ Unperforated	0.50	0.33	0.29	0.78	0.78	0.64	0.55	_	_	_
Random Fissured Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.7	_	_	_
Shasta® Unperforated	0.47	0.33	0.32	0.82	0.75	0.72	0.5	_	_	_
Shasta 5/8" Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.7	-	-	_
ineral Fiber										
Armatuff®	0.24	0.35	0.71	0.61	0.42	0.28	0.5	33-35	-	_
Calla®	0.59	0.56	0.82	0.99	0.95	0.94	0.85	35	170	Best
Canyon®	0.41	0.32	0.56	0.84	0.82	0.80	0.6	35	_	Good
Ceramaguard® Perforated	0.28	0.27	0.43	0.72	0.92	0.86	0.55	38-40	_	-
Ceramaguard Unperforated	-	-	-	-	-	-	-	40	_	_
Cirrus®	0.32	0.31	0.59	0.93	1.00	0.99	0.7	35	_	Better
Cirrus® Fire Guard™	0.27	0.25	0.29	0.36	0.46	0.53	0.35	35	_	_
Cirrus® High CAC	0.36	0.37	0.71	0.90	0.96	0.95	0.7	38-40	_	Better
Cirrus® High NRC	0.33	0.39	0.85	1.00	0.96	0.96	0.75	35	170	Better
Cirrus Profiles	0.23	0.31	0.59	0.83	0.95	0.95	0.65	35	-	Good
Cirrus® Second Look®	0.23	0.31	0.59	0.83	0.95	0.95	0.65	35	-	Good
Clean Room™ FL (border units)	-	-	-	-	-	-	-	35	-	-
Clean Room FL (field units)	0.25	0.24	0.59	0.90	0.75	0.51	0.55	35	-	_
Clean Room VL Perforated	0.22	0.24	0.53	0.90	0.78	0.47	0.55	35	_	_
Clean Room VL Unperforated	_	_	_	_	_	_	_	40	_	_

A = These are representative data for the product family. Sound absorption test data for specific item tested. Data and test reports for most products available upon request. Contact TechLine at techline@armstrongceilings.com



B = Sound Absorption Data and NRC rating obtained by ASTM Procedure C423, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E795, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests."

C = Sound Transmission loss data obtained by procedures outlined in AMA-1-II, "Test Method for Ceiling Sound Transmission Test by the Two-Room Method" or by the ASTM Procedure E1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedures outlined in ASTM Procedure E413, "Classification for Rating Sound Insulation."

D = NRC and CAC single number ratings comply with ASTM E1264 classification requirements.

NOTE: For acoustical details for Tectum® products, contact TechLine at 877 276 7876



## **UL Classified Acoustical Performance Summary**

## **Acoustic Performance**

Product Family		Sou <u>nd abs</u>	orption co-e	fficients <sup>a</sup> – e	-400 mounti	ing	Published Value: Sound Absorption <sup>8</sup>	Published Value: Sound Transmission <sup>c</sup>	Articulation Class	Total Acoustics
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC□	CAC <sup>D</sup>		
Mineral Fiber (continued)										
Cortega®	0.21	0.26	0.51	0.78	0.75	0.69	0.55	33-35	-	_
Cortega <sup>®</sup> Fire Guard <sup>™</sup>	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	-	-
Cortega® Second Look®	0.20	0.30	0.48	0.72	0.73	0.73	0.55	30-35	-	_
Cortega Second Look Fire Guard	0.23	0.31	0.56	0.87	0.85	0.82	0.55	40	-	_
Designer	0.33	0.33	0.51	0.68	0.73	0.76	0.55	30-33	-	-
Dune™	0.39	0.35	0.60	0.60	0.51	0.34	0.5	30-35	-	-
Dune™ Fire Guard™	0.21	0.28	0.51	0.74	0.60	0.42	0.5	35	_	-
Dune™ Second Look®	0.37	0.37	0.63	0.64	0.56	0.39	0.5	35	-	-
Fine Fissured™	0.30	0.35	0.59	0.71	0.69	0.58	0.55	35	_	-
Fine Fissured Fire Guard	0.20	0.27	0.52	0.89	0.82	0.75	0.55	35	_	-
Fine Fissured Fire Guard High NRC	0.20	0.30	0.74	0.95	0.87	0.78	0.7	35-40	_	Better
Fine Fissured™ High NRC	0.28	0.39	0.86	1.01	1.01	1.02	0.75	35	170	Better
Fine Fissured™ School Zone	0.29	0.30	0.65	0.91	0.85	0.79	0.7	35-40	_	Better
Fine Fissured™ Second Look®	0.20	0.30	0.48	0.72	0.73	0.73	0.55	30-35	_	_
Fine Fissured <sup>™</sup> Second Look <sup>®</sup> FireGuard	0.23	0.31	0.56	0.87	0.85	0.82	0.55	35	-	-
Fine Fissured Tile	0.43	0.31	0.42	0.66	0.79	0.70	0.55	35	-	-
Fissured™	0.25	0.25	0.46	0.74	0.82	0.81	0.55	30	-	_
Fissured Fire Guard	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	-	-
Georgian™	0.21	0.26	0.51	0.78	0.75	0.69	0.55	33-35	-	_
Georgian Fire Guard™	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	-	-
Georgian™ High Washability	-	-	_	_	-	-	-	33	-	-
Graphis® Finetex™	-	-	-	-	-	-	-	35	-	-
Graphis® Rustex™	0.39	0.31	0.44	0.69	0.89	0.98	0.55	30	-	-
Ledges®	-	-	_	_	-	_	_	35	_	-
Mesa™	0.35	0.40	0.67	0.78	0.76	0.67	0.6	33-35	-	Good
Mesa™ High CAC	0.30	0.32	0.69	0.84	0.73	0.62	0.6	40	_	Good
Mesa <sup>™</sup> Second Look®	0.35	0.40	0.67	0.78	0.76	0.67	0.6	35	_	Good
Tincraft™	-	-	_	-	_	_	-	35	_	_
Tundra®	0.23	0.26	0.57	0.67	0.50	0.38	0.5	33-35	_	-
Ultima®	0.32	0.33	0.67	0.97	0.96	0.93	0.75	35	_	Better
Ultima® Fire Guard	0.26	0.31	0.59	0.78	0.80	0.69	0.6	40	_	Good
Ultima® Health Zone™	0.30	0.32	0.71	0.92	0.90	0.89	0.7	38	_	Better
Ultima® Health Zone™ High NRC	0.33	0.36	0.76	1.00	0.98	0.98	0.8	35	_	Best
Ultima® High CAC	0.26	0.31	0.59	0.78	0.80	0.69	0.6	40	-	Good
Ultima® High NRC	0.28	0.39	0.79	0.98	0.96	0.90	0.8	35	170	Best
Ultima® Vector®	0.34	0.38	0.67	0.89	0.82	0.80	0.7	33	-	-

A = These are representative data for the product family. Sound absorption test data for specific item tested. Data and test reports for most products available upon request. Contact TechLine at techline@armstrongceilings.com



B = Sound Absorption Data and NRC rating obtained by ASTM Procedure C423, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E795, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests."

C = Sound Transmission loss data obtained by procedures outlined in AMA-1-II, "Test Method for Ceiling Sound Transmission Test by the Two-Room Method" or by the ASTM Procedure E1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedures outlined in ASTM Procedure E413, "Classification for Rating Sound Insulation."

D  $\,=\,$  NRC and CAC single number ratings comply with ASTM E1264 classification requirements.

NOTE: For acoustical details for Tectum® products, contact TechLine at 877 276 7876



## **Lighting Quality**

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
EQ	Interior Lighting – Lighting Quality	BD&C - 1 ID&C - 1	ARMSTRONG® HIGH LIGHT-REFLECTANT CEILINGS AND WALLS BD&C, Option 2: Choose Armstrong Hi-LR ceilings (LR 0.85) or walls (0.60) to aid in extending daylighting into the space. BD&C, Option 2: Specify Armstrong® TechZone® Ceiling Systems lighting partners and LED lighting as another option to satisfy LEED® criteria.

#### **Energy Reduction and Comfort**

Indirect lighting in work environments is increasingly important in areas without natural light. The indirect lighting leads to higher visual comfort levels which have been proven to increase employee effectiveness.

High light-reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compared to 75% with standard ceilings. (See drawings, Pg. 469)

## **Low-Emitting Materials**

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
EQ	Low Emitting Materials	BD&C - 1-3 ID&C - 1-3	ARMSTRONG LOW OR NO-ADDED FORMALDEHYDE CEILINGS All Armstrong mineral fiber and Optima® PB acoustical ceilings meet <u>General Emissions Evaluation</u> <u>per the CDPH standard</u> ; v1.1 2010.  All Armstrong WoodWorks® ceilings (except WoodWorks Channeled and solid wood options) meet CARB. ULEF options available.

#### **VOC** and Formaldehyde Emissions

When it comes to sustainability, the environment inside the building is just as important as what's happening outside. Increasing attention is being given to the quality of the indoor environment and the presence of Volatile Organic Compounds (VOCs).

Armstrong low-emitting ceilings are third-party tested, compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol. For further information, download our VOC Emissions certifications from the Resources Section of each product page on our web site.

#### AIRGUARD™ COATING

AirGuard™ Coating for Ultima® ceiling panels is a revolutionary breakthrough to actively remove formaldehyde in buildings. When applied to the back of ceiling panels, the AirGuard Coating (a UL Environment-Certified™ Product) converts the formaldehyde present in interior spaces into an inert substance permanently captured by the ceiling.

Product testing and measurement followed: ASTM procedures (ASTM D 5116-10. D 5197-03, and ISO Standards ISO-16000-23).

#### **AIR CLEANLINESS**

#### Healthcare and Clean Rooms

Armstrong® Ceilings can meet stringent requirements for air cleanliness in healthcare and clean room environments. Select products meet ISO Class 5 in accordance with ISO 14644-1. This corresponds with Class 100 of U.S. Federal Standard 209E.





## **Durability & Cleanability**

Credit	LEED® Credit	Points	Armstrong® Ceilings Contribution
MR ID&C	Building Life Cycle Reduction Interiors Life Cycle Impact Reduction	ID&C - 1-3	ARMSTRONG® DURABLE AND CLEANABLE CEIINGS ID&C , Option 3: Armstrong durable, damage = resistant and cleanable ceilings minimize the need for frequent replacement and disposal, and maximize the lifecycle of the ceiling.

When manufacturers make durability claims, it is helpful to know the facts based behind them. Our icons and claims are backed whenever possible, by industry-standard tests, outlined below.

#### **CLEANABILITY**



#### Water Repellency

Ceilings installed in healthcare environments are required to be cleanable and must not interfere with infection control. In addition to washability and scrubbability, ceilings in healthcare spaces should also be water-repellent. While an ASTM test does not exist to test for water repellency, in-house testing confirms that Ultima® Health Zone™, Ultima® Health Zone™ High NRC, and Optima® Health Zone™ have been engineered to resist water absorption for a minimum of 15 minutes; the time required for proper cleaning and disinfection.





Washability

Washability Test – ASTM D4828

Ceilings installed in laboratories, clean rooms, food preparation areas, and other sanitary applications are required to meet washability standards. The Washability Test evaluates a ceiling's ability to withstand washing.





These photos show the superior washability of a Health Zone ceiling versus a standard ceiling.



#### Scrubbability

Scrubbability Test - Modified ASTM D2486 Procedure

Ceilings installed in laboratories, clean rooms, and food preparation areas are required to meet scrubbability standards – and, sometimes other specific criteria. The Scrubbability Test evaluates a ceiling's ability to withstand scrubbing.





These photos show the excellent scrubbability of a VL ceiling versus a less scrubbable ceiling.

#### ABUSE RESISTANCE



#### Impact Resistance

Striking Ball Impact Test – Modified ASTM D1037 Procedure

Ceilings in areas like school corridors or gymnasiums need to withstand abuse, including surface impact. The Striking Ball Impact Test evaluates a ceiling's impact resistance.





These photos show the excellent impact resistance of a Tundra® ceiling versus a less impact-resistant ceiling.



#### Scratch Resistance

Hess Rake Test

In any areas where lay-in ceiling panels frequently need to be removed for plenum access, surface scratch resistance is highly desirable. The Hess Rake Test evaluates surface scratch resistance.





These photos show the excellent scratch resistance of an Ultima® ceiling (with DuraBrite® surface) versus a competitive fine texture ceiling.



#### Soil Resistance

Simulated Supply Air Diffuser Soiling Test

Dirt accumulation not only detracts from a ceiling's appearance, but can cost money by requiring painting or replacement of the ceiling. In addition to reducing acoustical efficiency, soiling can cause a substantial reduction in light reflectance. The Simulated Supply Air Diffuser Soiling Test evaluates this soil-resistant property.





These photos show the excellent soil resistance of an Ultima® ceiling (with DuraBrite® surface) versus a competitive fine texture ceiling.



## Frequent Plenum Access

Minimize Damage

Downward access for Vector® panels minimizes panel damage from hanger wires and other obstructions.



# No Sag/Humidity Resistance and Anti-Mold/Mildew

Often, ceilings are installed before buildings are enclosed, exposing the building materials to high levels of humidity.

Many Armstrong® ceilings can be installed in the state of construction when windows are not fully installed without any risk of sag.

Some Armstrong ceilings are coated with a mold-inhibiting agent, others inherently resist growth of mold and mildew.

#### ARMSTRONG® HUMIGUARD® CEILINGS

- . Can be installed before buildings are enclosed
- Minimize replacement of sagging ceilings
- · Stay flat, even where HVAC systems are cycled



#### HumiGuard® Max

**HumiGuard Max** ceiling panels maintain maximum humidity and sag resistance, including outdoor applications.



#### HumiGuard® Plus

**HumiGuard Plus** ceiling panels maintain superior sag resistance. Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Virtually all Armstrong acoustical panels not identified as HumiGuard Plus or HumiGuard Max provide acceptable humidity resistance for most conventional commercial building applications, when the building is closed in and HVAC systems are functioning on an ongoing basis.

#### ARMSTRONG ANTI-MOLD & MILDEW



### Armstrong® BioBlock® Ceilings

Ceiling panels with BioBlock® coating contain a mold-inhibiting agent that resists the growth of mold and mildew.



After a 28-day incubation period, a BioBlock ceiling panel received an ASTM rating of 10 (D3274 prescribed rating scale) or 0 (G-21 rating scale), signifying no visible mold growth.

#### Potential Ceiling Contribution

We stand behind our ceiling system performance with a 30-Year Limited System Warranty that Armstrong® HumiGuard® ceilings will resist visible sag, and that Armstrong® BioBlock® ceilings will resist the growth of mold and mildew.

Commercial ceiling panels with BioBlock coating are warranted to inhibit the growth of mold and mildew for 30 years from the date of installation. Armstrong® BioBlock® coating contains a mold-inhibiting agent that provides resistance to the growth of mold and mildew over the warranty period. Armstrong® HumiGuard® Plus fiberglass ceiling panels and HumiGuard Max mineral fiber ceiling panels are not treated with the BioBlock coating, but are warranted to inhibit the growth of mold and mildew for 30 years from the date of installation due to the inherent characteristics of the product.





## Fire Resistance

Local building codes for safe construction rely on two fire ratings to evaluate compliance: (1) Material Flame Spread/Smoke Developed Index Rating, and (2) Fire Resistance Assembly Rating. These ratings are based on ASTM standards, and compliance is determined by several independent, non-governmental testing services such as Underwriters Laboratories, Inc.

#### SELECTING THE RIGHT UL FIRE-RATED ASSEMBLY

#### Flame Spread Index (FSI)/Smoke Developed Index (SDI) ASTM E84; UL 723; CAN/ULC - S102M

This is a standard method of testing for surfaceburning characteristics of building products.

FSI is the relative rate at which a flame will spread over the surface of the material. This index is compared against a rating of 0 for inorganic reinforced cement board, and an index of 100 for red oak. Class A (ASTM E1264) building products require a flame spread index of 25 or less — the required standard for most commercial applications. Class A building products require a smoke developed index of 50 or less.

#### Continuous Versus Open Plenum Ceilings

A continuous ceiling may allow sprinklers and smoke detectors to activate faster, providing added escape time for occupant evacuation. In buildings where a ceiling is not in place, the height of the space is normally greater and could delay the operation of the fire sprinkler or smoke detector systems.

#### Fire Resistance Rating of a Ceiling Assembly (ANSI/UL 263 – ASTM E119 and NFPA 251) (CAN/ULC - S101M)

The degree to which the entire assembly (measured in hours), not individual components, withstands fire and high temperatures.

Specifically, it is an assembly's ability to prevent the spread of fire between spaces while retaining structural integrity.

The resulting fire resistance rating relates to the assembly in its entirety and is published or classified in the UL Fire Resistance Directory.



**Use Only** Fire Guard<sup>™</sup> Products for Fire-Rated Assemblies

## Selecting the Right UL Fire-Rated Assembly

- 1. Establish the hourly rating needed to meet code requirements.
- Determine the existing or planned building elements, including structural, mechanical, electrical, and finish materials, in the fire-rated assembly.
- Refer to the Fire Resistance Rating Summary (armstrongceilings.com/ulfire) to determine the UL design numbers and ceiling system products that correspond to the fire-rated assemblies that meet your needs.
- Refer to the Fire Resistance Selector information on our web site armstrongceilings.com/commercial.

# Two types of fire-rated construction assemblies pertain to acoustical ceiling systems:

#### Roof/Ceiling Assemblies

Ceiling system, lighting, HVAC outlets, and other penetrants through the ceiling, the plenum, roof support structure, and roof assembly including deck, insulation, and roofing system.

#### Floor/Ceiling Assemblies

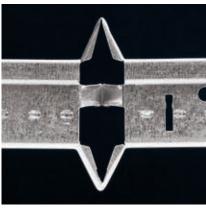
Ceiling system, lighting, HVAC outlets, and other penetrants through the ceiling, the plenum, structural system, subfloor, and finished floor.



Armstrong® panels are UL listed and outperform requirements for ceilings.

For UL Fire Resistive Ceiling Assembly Details, see pages 483-485.

Armstrong® Fire Guard™ ceilings are specially formulated to provide enhanced resistance against structural failure. Fire Guard suspension systems have expansion relief to help maintain structural integrity of the ceiling.



Main beam expansion relief

## Fire Guard™ products in this catalog are listed under the following ceiling product families:

Ceramaguard®	Pages 225-226
Ceramaguard® Fine Fissured™	Pages 225-226
Cirrus®	Pages 227-232
Clean Room™ VL	Pages 239-240
Cortega®	Pages 243-244
Cortega® Second Look®	Pages 243-244
Dune™	Pages 249-250
Fine Fissured <sup>™</sup>	Pages 255-260
Fine Fissured™ Second Look	Page 261
Fissured™	Page 262
Georgian™	Pages 263-264
Ultima®	Pages 311-318
VL	Pages 239-240

## Fire Resistance Assembly Chart

## Fire Resistance

Deck	UL Design	Concrete	Panel or Tile	Minimum Panel	Maximum Fixture Penetration	Maximum Duct Penetration	Suspension
Construction Type	Number	Thickness	Size and Type	or Tile Thickness	(in <sup>2</sup> /100 SF)	(in <sup>2</sup> /100 SF)	Systems
CONCRETE FLOOR/CEILI	NG ASSEMBLIES						
Concrete on Flat Cellular,	Fluted, or Blend Deck	(					
3-Hour – Exposed Grid	A212	2-1/2"	48" x 48" ; PC 36" x 60" ; PC 30" x 60" ; PC	5/8"	25	158	1, 2
	D216	3-1/4"	24" x 24" to 30" x 60" ; P 24" x 24" to 36" x 60" or 48" x 48" ; PC	5/8" (P or PC)	24	576	1, 2
2-Hour – Exposed Grid	D216	2-1/2"	24" x 24" to 30" x 60" ; P 24" x 24" to 36" x 60" or 48" x 48" ; PC	5/8" (P or PC)	24	576	1, 2, 3
Concrete on Ribbed or Co	rrugated Deck						
3-Hour – Exposed Grid	G256	3-1/2"	24" x 24" ; P 24" x 48" ; P or PC	5/8" (P or PC)	24	255	1, 2
2-Hour – Exposed Grid	G256	2-1/2"	24" x 24" ; P 24" x 48" ; P or PC	5/8" (P or PC)	24	576	1, 2, 3
	G258	2-1/2"	24" x 24" ; P 24" x 48" ; P	5/8"	24	113	1, 2
	G214	2-3/4"	24" x 48" ; P 20" x 60" ; P	5/8"	17	57	1, 2
Concrete on Metal Lath,	Ribbed, or Corrugate	ed Deck	,				
3-Hour – Exposed Grid	G229	3-1/4"	24" x 48" ; P or PC	5/8"	20	576	1, 2
2-Hour – Concealed Grid	G022	2-1/2"	12" x 24" ; P	3/4"	16	57	4
2-Hour – Exposed Grid	G209	3"	24" x 48" ; P or PC 24" x 24" ; P or PC	5/8"	8	None	1, 2
	G244*	3"	24" x 48" ; P or PC 24" x 24" ; P or P 20" x 60" ; P or PC	5/8"	24*	576	1, 2, 3
	G210	2-1/2"	24" x 24" ; P	3/4"	24	113	1, 2
	G216	2-1/2"	24" x 48" ; P or PC 24" x 24" ; P	5/8"	8	None	1, 2
	G217	2-1/2"	24" x 48" ; P or PC 24" x 24" ; P or PC 20" x 60" ; P or PC	5/8"	8	57	1, 2
	G229	2-1/2"	24" x 48" ; P or PC 24" x 24" ; P or PC 20" x 60" ; P or PC	5/8"	20	576	1, 2, 3
	G242	2-1/2"	24" x 48" ; P or PC	5/8"	8	None	1, 2
2-Hour – Exposed Grid	G243*	2-1/2"	24" x 48"; P 24" x 24"; P 20" x 60"; P	5/8"	16	576	1, 2, 3
	G236	2-1/2"	24" x 48"; P 24" x 24"; P	5/8"	None	None	1, 2
	G250	2-1/2"	30" x 60"; P or PC 20" x 60"; P or PC 24" x 48"; P or PC 24" x 24"; P	5/8"	20	113	1, 2
1-Hour – Exposed Grid	G241	2"	24" x 48" ; P 24" x 24" ; P	5/8"	None	None	1, 2
WOOD DECK/CEILING AS	SEMBLIES		·				
Double-Plywood (or Plywo	ood), 2' X 10' Wood Jo	oists					
1-Hour – Exposed Grid	L209	NA	24" x 48"; P	5/8"	16	110	1, 2
	L210	NA	24" x 48"; P 24" x 24"; P	5/8"	24	227	1, 2, 3
Double-Plywood (or Plywo	ood), 3' X 8' Wood Joi	sts	24 A 24 , I'				
1-1/2-Hour – Exposed Grid	L208	NA	24" x 48"; P or PC 24" x 24"; P	5/8"	None	None	1, 2

NOTE: Numbers in parentheses are original UL design numbers. Some unit sizes are no longer available as standard items; some designs include additional sizes.

#### WHAT YOU NEED TO KNOW TO USE THIS CHART

If you are unfamiliar with UL Fire Resistance Ratings, begin with a review of meeting Code Requirements, pg. 482.

As explained there, these ratings are applied to certain types of roof/ceiling and floor/ceiling construction assemblies, which are tested and assigned hourly ratings mandated by building codes or other building safety requirements.

- 1. UL tests rate an entire assembly. No ceiling or suspension system product alone constitutes a fire-rated assembly.
- 2. You can use only the specific type, size, and minimum thickness of Fire Guard™ ceilings or suspension system identified in each assembly.
- 3. This table is a guide.

(See UL Fire Resistance Directory for complete design details). To purchase a copy of the UL Directory:

Underwriters Laboratories, Inc.

Publications Stock

333 Pfingsten Rd.

Northbrook, IL 60062

(Tel.) 847-272-8800, ext. 42612 or 42622

#### Key to Panel and Tile Types

PC = Ceramaguard®

P = All other products designated Fire Guard™ in this catalog

#### Key to Grid System Types

- $1 = AFG \text{ and } FST 6000 Prelude® Fire Guard^{\text{m}} \text{ and }$ Prelude® XL® Fire Guard™ with steel cap
- 2 = AFG-A and FST 6000A Prelude® Plus XL® Fire Guard™ and XL Fire Guard with aluminum cap
- 3 = FSLK Suprafine® Fire Guard™ with steel cap



<sup>\*</sup> Allows flat-board fixture protection

## Fire Resistance Assembly Chart

## Fire Resistance

Deck Construction Type	UL Design Number	Concrete Thickness	Panel or Tile Size and Type	Minimum Panel or Tile Thickness	Maximum Fixture Penetration (in²/100 SF)	Maximum Duct Penetration (in²/100 SF)	Suspension Systems
•		THICKIICSS	oize and type	of the finekness	(111 / 100 31 )	(111 / 100 31 )	Oystonis
ROOF/CEILING ASSEMBL	IES						
Standing Seam Exposed I							
I-1/2 + 1-Hour – Exposed Grid	P265***	See Design Details	24" x 48"; P or PC 24" x 24"; P or PC	3/4" (P) 5/8" (PC)	24	576	1
Lightweight Insulating Co 2-Hour — Exposed Grid	P215	2"	24" x 48"; PC plus	5/8" (PC) plus	16	57	1, 2
z-noui — Exposeu dilu	P219	2"	24" x 48"; Gypsum Bd. 24" x 48"; PC plus	1/2" Gypsum Bd. 5/8" (PC) plus	16	57	1, 2
			24" x 24"; Gypsum Bd.	1/2" Gypsum Bd.			
	P251	2-3/4" Min. to 6-3/4"	24" x 48"; P or PC 24" x 24"; P or PC 20" x 60"; P or PC	5/8" (P or PC)	24	576	1, 2, 3
-1/2 Hour – Exposed Grid	P231	3-3/8"	24" x 48", 24" x 24"; P 24" x 48"; Gypsum Bd.	5/8"	24	255	1, 2
-Hour – Exposed Grid	P216*	2"	24" x 48"; P	5/8"	16	57	1, 2
Mineral-Fiber, Glass-Fib	er, or Composite Roo	f Insulation on Fluted Met	al Roof Deck				
	•	INSULATION THICKNESS					
-1/2 Hour – Exposed Grid	P225	1" min. to unlimited max.	24" x 48"; P or PC 20" x 60"; P or PC	5/8"	24	255	1, 2
	P227	1" min. to unlimited max.	24" x 48"; P or PC	3/4" (P)	24	255	1, 2
	P250***	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC	3/4" (P) 5/8" (PC)	24	113	1
-Hour – Exposed Grid	P206	1" min. and max.	24" x 48"; P	5/8"	16	113	1, 2
	P210	1" min. and max. 1" min. to 2" max.	24" x 48"; PC	5/8" 5/8"	16 16	57	1, 2
	P211 P225	1" min. to 2 max.	24" x 48"; PC 24" x 48"; P or PC	5/8" (P or PC)	24	57 576	1, 2, 3
		· · · · · · · · · · · · · · · · · · ·	24" x 24"; P or PC 20" x 60"; P or PC	5,5 (. 5 5)			., 2, 0
	P227	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC	5/8"	24	255	1, 2
	P250***	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC	3/4" (P) 5/8" (PC)	24	576	1
Poured Gypsum Concrete	Over 1/2" Gynsum Fr	nrmhoard					
•••				- I (A)			
1-1/2-Hour – Exposed Grid	P217	1-1/2"	24" x 60"; P	5/8"	16	288	1, 2
1-1/2-Hour – Exposed Grid IRMA (Inverted Roof Mem	P217 brane Assembly)	1-1/2"					
1-1/2-Hour – Exposed Grid	P217		24" x 60"; P 24" x 48" ; P or PC	5/8"	16	288	1, 2
1-1/2-Hour – Exposed Grid IRMA (Inverted Roof Mem	P217 brane Assembly)	1-1/2"					
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem  1-Hour – Exposed Grid  Deck	P217 brane Assembly) R217 (UL Canada)	1-1/2"  2" min. to unlimited max.  Concrete	24" x 48" ; P or PC  Minimum	5/8" Minimum	24 Maximum Fixture Penetration	255 Maximum Duct Penetration	1, 2 Suspension
1-1/2-Hour – Exposed Grid RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type	P217  brane Assembly)  R217 (UL Canada)  UL Design  Number	1-1/2" 2" min. to unlimited max.	24" x 48" ; P or PC	5/8"	24 Maximum Fixture	255 Maximum Duct	1, 2
1-1/2-Hour – Exposed Grid RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES	1-1/2" 2" min. to unlimited max.  Concrete Thickness	24" x 48" ; P or PC  Minimum	5/8" Minimum	24 Maximum Fixture Penetration	255 Maximum Duct Penetration	1, 2 Suspension
1-1/2-Hour – Exposed Grid RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES at Cellular, Fluted, or	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck	24" x 48" ; P or PC  Minimum	5/8" Minimum	Maximum Fixture Penetration (in²/100 SF)	Maximum Duct Penetration (in²/100 SF)	1, 2 Suspension Systems
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem  1-Hour – Exposed Grid  Deck Construction Type  FLOOR/CEILING DRYWAL Concrete on Composite Fl	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES lat Cellular, Fluted, or	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck 2-1/2"	24" x 48" ; P or PC  Minimum No. of Layers	5/8"  Minimum Thickness	Maximum Fixture Penetration (in²/100 SF)	Maximum Duct Penetration (in²/100 SF)	Suspension Systems  DFR8000 DFR8000SS
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type  FLOOR/CEILING DRYWAL Concrete on Composite Fl	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES lat Cellular, Fluted, or D501  D502**	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"	24" x 48" ; P or PC  Minimum No. of Layers	5/8" Minimum Thickness	Maximum Fixture Penetration (in²/100 SF)	Maximum Duct Penetration (in²/100 SF)	Suspension Systems
1-1/2-Hour – Exposed Grid RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES lat Cellular, Fluted, or D501  D502**	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"	24" x 48" ; P or PC  Minimum No. of Layers	5/8"  Minimum Thickness	Maximum Fixture Penetration (in²/100 SF)	Maximum Duct Penetration (in²/100 SF)	Suspension Systems  DFR8000 DFR8000SS DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem  1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES lat Cellular, Fluted, or D501 D502** corrugated, and Ribbe G523	1-1/2" 2" min. to unlimited max.  Concrete Thickness  Blend Deck 2-1/2" 2-1/2" d Deck 3"	24" x 48" ; P or PC  Minimum No. of Layers	5/8" Minimum Thickness  5/8"  5/8"	Maximum Fixture Penetration (in²/100 SF)  None 24	Maximum Duct Penetration (in²/100 SF)  None 144	DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Flee-Hour  Concrete on Metal Lath, Concrete on Metal Lath, Concrete Roof Roof Roof	P217 brane Assembly) R217 (UL Canada)  UL Design Number  L ASSEMBLIES at Cellular, Fluted, or D501 D502** Corrugated, and Ribbe G523 G524	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"	24" x 48" ; P or PC  Minimum No. of Layers	5/8"  Minimum Thickness  5/8"  5/8"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24	Maximum Duct Penetration (in²/100 SF)  None 144 113	JFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000 DFR8000 DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES lat Cellular, Fluted, or D501 D502** corrugated, and Ribbe G523	1-1/2" 2" min. to unlimited max.  Concrete Thickness  Blend Deck 2-1/2" 2-1/2" d Deck 3"	24" x 48" ; P or PC  Minimum No. of Layers  1 1 1	5/8" Minimum Thickness  5/8"  5/8"	Maximum Fixture Penetration (in²/100 SF)  None 24	Maximum Duct Penetration (in²/100 SF)  None 144	DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C	P217 brane Assembly) R217 (UL Canada)  UL Design Number  L ASSEMBLIES lat Cellular, Fluted, or D501 D502** corrugated, and Ribbe G523 G524 G529	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"	24" x 48" ; P or PC  Minimum No. of Layers  1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  None 24	Maximum Duct Penetration (in²/100 SF)  None 144 113 57	DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type  E-LOOR/CEILING DRYWAL Concrete on Composite Flethour  Concrete on Metal Lath, Collinary	P217 brane Assembly) R217 (UL Canada)  UL Design Number  L ASSEMBLIES lat Cellular, Fluted, or D501  D502** corrugated, and Ribbe G523 G524 G529 G529 G529 G561 G523	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"	24" x 48" ; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  None 24 24 24	Maximum Duct Penetration (in²/100 SF)  None 144 113 57 57	DFR8000 DFR8000 DFR8000S DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type  E-LOOR/CEILING DRYWAL Concrete on Composite Flethour  Concrete on Metal Lath, Collinary	P217 brane Assembly) R217 (UL Canada)  UL Design Number L ASSEMBLIES at Cellular, Fluted, or D501 D502** Corrugated, and Ribbe 6523 6524 6529 6529 6561	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"	Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  5/8"  -	Maximum Fixture Penetration (in²/100 SF)  None 24  None 24  144	255  Maximum Duct Penetration (in²/100 SF)  None 144 113 57 57 144	DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type  E-LOOR/CEILING DRYWAL Concrete on Composite Flethour  Concrete on Metal Lath, Collinary	P217 brane Assembly) R217 (UL Canada)  UL Design Number  L ASSEMBLIES lat Cellular, Fluted, or D501  D502** corrugated, and Ribbe G523 G524 G529 G529 G529 G561 G523	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"	24" x 48" ; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  Vone 24  Vone 24  Vone 24  Volume 26  Volume 27  Volume 27  Volume 28  Volume 28	255  Maximum Duct Penetration (in²/100 SF)  None 144 113 57 57 144 144 144	DFR8000 DFR8000 DFR8000SS DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem  1-Hour – Exposed Grid  Deck Construction Type  FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C 3-Hour	P217 brane Assembly) R217 (UL Canada)  UL Design Number  L ASSEMBLIES at Cellular, Fluted, or D501 D502** Corrugated, and Ribbe G523 G524 G529 G561 G623 G524	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"  2-1/2"	24" x 48" ; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  24  None 24  144  24  None	255  Maximum Duct Penetration (in²/100 SF)  None 144 113 57 57 144 114 113	DFR8000
1-1/2-Hour – Exposed Grid IRMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C 3-Hour	P217  brane Assembly) R217 (UL Canada)  UL Design Number  L ASSEMBLIES lat Cellular, Fluted, or D501  D502**  corrugated, and Ribbe 6523 6524 6529 6529 6561 6523 6524 6529 6561	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"  2-1/2"  2-1/2"	24" x 48"; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  Vone 24  Vone 24  Vone 24  None 25	255  Maximum Duct Penetration (in²/100 SF)  None 144 113 57 57 144 144 113 56.5	DFR8000 DFR8000 DFR8000SS DFR8000
1-1/2-Hour – Exposed Grid  RMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite FI 2-Hour  Concrete on Metal Lath, C 3-Hour	P217  brane Assembly)  R217 (UL Canada)  UL Design Number  L ASSEMBLIES  at Cellular, Fluted, or  D501  D502**  Corrugated, and Ribbe  G523  G524  G529  G561  G523  G524  G526  G527  G561	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"	24" x 48"; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  24  None 24  24  None 25  None 25	255  Maximum Duct Penetration (in²/100 SF)  None  144  113  57  57  144  113  56.5  None  57	DFR8000
1-1/2-Hour – Exposed Grid  IRMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type  FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C 3-Hour	P217  brane Assembly)  R217 (UL Canada)  UL Design Number  L ASSEMBLIES  at Cellular, Fluted, or D501  D502**  corrugated, and Ribbe G523 G524 G529 G561 G523 G524 G526 G527 G527	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"	24" x 48"; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  24  None 24  144  24  None 25  None	255  Maximum Duct Penetration (in²/100 SF)  None 144 113 57 57 144 113 56.5 None 57	DFR8000
1-1/2-Hour – Exposed Grid  IRMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type  FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C 3-Hour	P217  brane Assembly)  R217 (UL Canada)  UL Design Number  L ASSEMBLIES  at Cellular, Fluted, or  D501  D502**  Corrugated, and Ribbe  G523  G524  G529  G561  G523  G524  G526  G527  G561	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/2"  3-1/4"  3-3/4"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"	24" x 48"; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  24  None 24  24  None 25  None 25	255  Maximum Duct Penetration (in²/100 SF)  None  144  113  57  57  144  113  56.5  None  57	1, 2  Suspension Systems  DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000 DFR8000SS DFR8000
1-1/2-Hour – Exposed Grid  IRMA (Inverted Roof Mem 1-Hour – Exposed Grid  Deck Construction Type FLOOR/CEILING DRYWAL Concrete on Composite Fl 2-Hour  Concrete on Metal Lath, C 3-Hour  1 1/2-Hour	P217  brane Assembly)  R217 (UL Canada)  UL Design Number  L ASSEMBLIES  at Cellular, Fluted, or  D501  D502**  corrugated, and Ribbe  6523  6524  6529  6561  6523  6524  6526  6527  6527  6561  6527	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/4"  3-1/4"  3-1/4"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"	24" x 48"; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  None 24  None 25  None 24  None 24  None 25  None	255  Maximum Duct Penetration (in²/100 SF)  None  144  113  57  57  144  113  56.5  None  57  144  None	DFR8000
1-1/2-Hour – Exposed Grid  IRMA (Inverted Roof Mem  1-Hour – Exposed Grid  Deck	P217  brane Assembly)  R217 (UL Canada)  UL Design Number  L ASSEMBLIES  at Cellular, Fluted, or  D501  D502**  corrugated, and Ribbe  6523  6524  6529  6561  6523  6524  6526  6527  6527  6561  6527	1-1/2"  2" min. to unlimited max.  Concrete Thickness  Blend Deck  2-1/2"  2-1/2"  d Deck  3"  3-1/4"  3-1/4"  3-1/4"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"  2-1/2"	24" x 48"; P or PC  Minimum No. of Layers  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5/8"  Minimum Thickness  5/8"  5/8"  5/8"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"  1/2"	Maximum Fixture Penetration (in²/100 SF)  None 24  None 24  None 25  None 24  None 24  None 25  None	255  Maximum Duct Penetration (in²/100 SF)  None  144  113  57  57  144  113  56.5  None  57  144  None	DFR8000 DFR8000 DFR8000SS DFR8000

 $<sup>^{\</sup>star}$  Allows flat-board fixture protection  $^{\phantom{\dagger}}$  Concrete plus insulation  $^{\phantom{\dagger}}$  Square-edge ceiling panels only



## Fire Resistance Assembly Chart

## Fire Resistance

			Minimum		Maximum Fixture	Maximum	
Deck Construction Type	UL Design Number	Concrete Thickness	Number of Layers	Maximum Thickness	Penetration (in²/100 SF)	Duct Penetration (in²/100 SF)	Suspension Systems
LOOR/CEILING DRYWAL	L ASSEMBLIES (CON	T.)					
oncrete on Composite S	teel Joist						
-Hour	G-531	3"	1	5/8"	144	20	DFR8000 DFR8000SS
-1/2-Hour	G-531	3"	1	5/8"	144	20	DFR8000
-Hour	G-531	3"	1	5/8"	144	20	DFR8000SS DFR8000
lark Dietrich C-Channe	I System						DFR8000SS
-Hour	G-553	1"	1	5/8"	None	None	DFR8000
	G-560	1"	1	5/8"	None	None	DFR8000SS DFR8000
	G-566	2"	1	5/8"	None	None	DFR8000
			1				DFR8000SS
	G-579	1"		5/8"	None	None	DFR8000 DFR8000SS
	G-594	1"	1	5/8"	None	None	DFR8000
Hour	G-553	1"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-560	1"	1	5/8"	None	None	DFR8000
	G-566	2"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-579	1"	1	5/8"	None	None	DFR8000
	G-591	1"	1	5/8"	None	None	DFR8000SS DFR8000
oncrete on Steel Deck			· 				
Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
1/2-Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
OOD DECK/CEILING DR							
Hour	L502	NA	1	1/2"	None	None	DFR8000 DFR8000SS
	L513	NA	1	5/8"	None	None	DFR8000 DFR8000SS
	L515	NA	1	1/2"	None	None	DFR8000
	L525	NA	1	1/2"	24	57	DFR8000SS DFR8000
	L526*	NA	1	5/8"	24	114	DFR8000SS DFR8000
lywood (2), 2 x 10 or (1							DFR8000SS
-Hour	L508	NA NA		5/8"	None	None	DFR8000
				0, 0	110110		DFR8000SS
lywood with Wood Trus		ALA.		5 /01	0.4	F.7	DEDOOO
-Hour	L529	NA		5/8"	24	57	DFR8000 DFR8000SS
tructual Cement – Fibe							
-Hour	L-564	3/4"	1	5/8"	144	144	DFR8000 DFR8000SS
OOF/CEILING DRYWALL	ASSEMBLIES						
tanding Seam exposed	Metal Roof with Ra	tte/Rlankete					
-Hour	P516	NA NA	2	5/8"	None	None	DFR8000
			۷	5/0	None	None	Billooo
<b>lineral Fiber Foam on (</b> -Hour	P514	NA NA	1	5/8"	24	255	DFR8000
							DFR8000SS
1/2-Hour	P507	NA	1	5/8"	24	57	DFR8000 DFR8000SS
	P510	NA	1	5/8"	24	57	DFR8000 DFR8000SS
	P513*	NA	1	5/8"	24	144	DFR8000
-Hour	P508*	NA	1	5/8"	24	144	DFR8000SS DFR8000
	P509*	NA	1	5/8"	24	144	DFR8000SS DFR8000
	P510	NA	1	1/2"	24	57	DFR8000SS DFR8000
lineral Fiber/Laminated			•	<u>-</u>		· ·	DFR8000SS
-1/2-Hour	P506	2"	1	5/8"	24	57	DFR8000
		-	•				DFR8000SS

NOTE: Numbers in parentheses are original UL design numbers. Some unit sizes are no longer available as standard items; some designs include additional sizes.

\*Optional acoustical tile may be glue-applied to gypboard.
DFR8000 – UL designation, Fire Guard™ drywall grid system
DFR8000SS – UL designation, Fire Guard™ ShortSpan® drywall grid system





## Seismic Compliance

In geographic seismic zones, properly engineered building structures need to be properly designed to withstand the seismic effects, while sustaining an acceptable level of damage. The International Building Code (IBC) presents minimum design/performance requirements and, in some instances, prescriptive guidance for product and installation requirements in seismic areas. The purpose of this requirement is to:

- · Provide a suspension system strong enough to resist lateral forces imposed upon it without failing
- · Prevent border panels from falling from the ceiling plane

#### INSTALLATION REQUIREMENTS FOR SUSPENDED CEILINGS

## IBC Requirements for Wall-to-Wall Ceiling Systems with Standard Acoustical Suspension Systems

IBC requirements are based on flat, level, suspended ceiling systems — main beams and cross tees suspended from the building structure by wires and wall molding around the perimeter.

- The IBC code is based on the suspension system only
- Many manufacturers market non-standard ceiling systems not covered by the code
- You must be able to prove that specified ceiling systems perform at a level consistent with the intent of the code

#### Installation Requirements for Clouds, Canopies, and Vertical Elements

Code officials may reject specified products such as clouds or canopies\* during plan review, challenging your design and delaying the construction schedule.

However, the code "is not intended to prevent" the installation of certain ceiling systems, and does allow "alternative materials, designs, and methods" to be used. To substantiate claims for alternative materials and designs, code officials "have the authority to require tests as evidence of compliance." If you are having problems getting free-floating or non-traditional objects approved, contact your local Armstrong Ceilings representative. See page 487 for a list of tested systems.

- <sup>1.</sup> Section 104.11 Alternative materials, designs, and methods of construction and equipment.
- <sup>2.</sup> Section 104.11.2 Tests.
- \*Armstrong Ceilings defines a cloud as a ceiling that is not connected to a wall on any side. Armstrong defines a canopy as a single, unique architectural element which is independently suspended from the building structure.

#### Installation Requirements for Suspended Drywall Ceilings

The drywall grid components listed in ESR-1289 and ESR-2311, which represent a code-compliant system for suspended-ceiling-mounted drywall installations, meet ASTM C645 and are UL Fire Rated. Armstrong® Drywall Grid Systems offer a labor- and cost-saving method of meeting seismic code without risk of delaying your construction schedule. Additional benefits of ESR-1289 and ESR-2311 are:

- Elimination of the lateral load design requirements (see ESR-1289, Section 4.4.1)
- Recognition and approval of DGS 6' cross tees (XL8965), and that 6' spacing of main beams reduces material, hanger wire, and installation time
- UL approval of XL8965 in fire-rated applications
- Recognition of fire-rated Type "F" cross tees XL8947, XL8947P, XL8925, and XL8918
- Recognition and approval of ShortSpan® pre-engineered solution to support spans up to seven feet with no independent support

#### Seismic Rx® Suspension System

Armstrong® Ceilings has an International Code Council-Evaluation Service (ICC-ES) approach to installation evaluated by the entitled Evaluation Sevice Report (ESR-1308). The Armstrong Seismic Rx Suspension System eliminates unsightly 2" wall angles in Category D, E, F seismic-compliant installations. It provides a labor- and cost-saving method of meeting seismic codes without the risk of delaying the construction schedule.



#### ICC Evaluated Heavy-duty Suspension Systems ESR-1308

- Prelude® XL® 15/16" Exposed Tee suspension system
- Suprafine® XL® 9/16" Exposed Tee suspension system
- Silhouette® XL® 9/16" Slotted Tee suspension system
- Interlude® XL® 9/16" Exposed Tee suspension system

2" wall angles are prone to the following problems:

- · Difficult to keep "tight" to wall
- · Difficult to install corners
- Prone to twisting and warping





## ESR-1308 Lists Specific Armstrong Ceiling Components and Method of Installation

The performance of the Armstrong Seismic Rx Suspension System is based on the specific combination of components and method of installation. Other manufacturers' components and installation methods were not tested, and are not covered in the ESR-1308 evaluation. Substitution of other components puts the system at risk and is not allowed by this ESR report.

For more information and code-related web site information, refer to our brochure: "WHAT YOU NEED TO KNOW Code Requirements Seismic Rx® Tested Solutions" BPCS-4141





This Icon is used throughout this catalog to identify **Armstrong products approved for use in seismic zones.** 



## Seismic Compliance

Providing a valid Evaluation Service Report (ESR) to a code official represents the "gold standard" for installations. The ESR represents the safest, least risky method for selecting a seismic ceiling solution. Armstrong Ceilings also has tested products that do not appear in ESR reports, as many products do not have clear code requirements. Armstrong Ceilings can provide you with seismic test results via a white paper or test report based on large-scale seismic shake table test results from an IAS accredited test facility (State University of New York, University at Buffalo). Contact TechLine at 877 276-7876, techline@armstrongceilings.com

Armstrong Ceilings is one of the only ceiling manufacturers consistently providing seismic test results for all types of installations: Wall-to-Wall Ceilings, Canopies, Clouds, Vertical Elements, and Drywall Grid Systems.

When requesting a white paper or test report, please have this information ready to share:

- Project Name
- Location

Product

- Installing Customer Contact
- Design Professional Contact

SEISMIC TES	STED SYSTEMS				
Product	Installation Detail	Product	Installation Detail		
Axiom® Building Perimeters Canopies	Perimeter Pocket with Horizontal Diffuser Perimeter Pocket with Vertical Diffuser  Capz" Infusions® Hills & Valleys Infusions (Grouped) MetalWorks™ Canopies MetalWorks Wings Optima® Canopies SoundScapes® Canopies WoodWorks® Canopies	Seismic	Category C Installation per Code Category D, E & F Installation per Code Seismic Corridor with 8" Gusset Seismic Corridor with 12" Gusset Seismic Joint Clip Main Beam (SJMR15) Fully Loaded Seismic Joint Clip Main Beam (SJMR9) Fully Loaded Seismic Joint Main Beam Splice Seismic Separation Joint on Prelude® XL® Seismic Separation Joint on Suprafine® XL® STAC – Single Tee Adapter Clip		
Clouds and Vertical Elements	Is and  72" x 72", 144" x 144", and 168" x 168" Formations™ — Planks  12" Axiom Floating 2-sides with Prelude® XL® ID  12" Axiom Floating 2-sides with Prelude XL ID  6" Axiom Floating 2-sides with Prelude XL ID  6" Axiom Floating Cloud with Prelude XL ID  16" Axiom Trim  Infusions® Blades™  Infusions Shapes  Formations Curves & with Integrated Lighting  MetalWorks™ Blades™  Serpentina® Classic  Serpentina® Vault  Serpentina® Waves™  SoundScapes® Blades™  SoundScapes Blades™  SoundScapes Blades™  SoundScapes Shapes	Seismic Rx®	BERC2 45-degrees to the Wall on Prelude XL BERC2 Fully Loaded on Prelude XL BERC2 on 7897 Shadow Molding with Ultima® Vector® Panels BERC2 on Interlude® XL® HRC BERC2 on Interlude XL HRC BERC2 on Silhouette® XL® with Diffusers & Sprinklers BERC2 with Prelude XL Intermediate-duty BERC2 with Suprafine XL ALBERC2 Prelude XL — Alternate Category C		
		Standard T-Bar Suspension System	Optima Radial Ceiling Optima® Vector® Optima Vector 24" x 96" Planks		
Corridors			Optima Vector 48" x 48" Panels Prelude XL Fire Rated Prelude XL Intermediate-duty Prelude XL to Black Iron NYC Prelude® XL Max® Shiolan Full Room		
Drywall Systems	6' DGS Tees Drywall Grid System QuikStix™ Locking Pocket Main ShortSpan 14' ShortSpan 6' QuikStix Soffits		Silhouette XL with Shadow Molding Sloped Ceiling Suprafine XL Installation per Code TechZone® Ceiling Systems Ultima® Beveled Tegular Ultima Vector		
MetalWorks™	QuikStix Soffits  DH700 Faceted Tegular and Vector® Fastrack 3", 6", and 12" Flush Tegular on Prelude XL Linear Curved and Flat Open Cell 4" and 8" Planks	WoodWorks®	Access™ Canopies Grille Linear Curved Linear Flat Tegular on Prelude XL Vector on Prelude XL		
	RH200 RH200 Cantilevered Curved RH215 Curved RH215 Clip-on Square Tegular on Prelude XL Standard Planks Tartan 3" Tartan 6" with Mega Panels and Planks Torsion Spring Vector on Prelude 15/16" suspension system Wings	Other	Capz Altitudes® Torsion Spring Axiom Transitions Axiom Glazing Channel Axiom Light Coves XAL LENO with Lighting Connector Bracket		



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2195	64	243-244	3250	96	287-288, 340
2600	48	265-266	3250PB	96	287-288
2602	48	265-266	3251	96	287, 289-290,
2711	80	251-252	005400	00	340, 351
2712	80	251-252	3251PB	96	287, 289-290
2722	80	251-252	3252 3252PB	96 96	287-288, 340 287-288
2758	64	243-244	3253	64	287-288
2765 2767	80	243-244	3254	64	287, 289-290
2767	80 80	243-244 243-244	3255	96	287-288, 340
2818	OU	354	3255PB	96	287-288
2820	40	124, 148, 150, 156,	3256	96	287, 290, 340
LULU	-10	174, 178, 200,	3256PB	96	287, 290
		221-222	3257	96	287, 289-290, 340
2820BK		174	3257PB	96	287, 289-290
2820BL	40	156	3258	75	287-288, 340, 351
2821	48	221-222	3259	75	287, 289-290, 340
2822	40	221-222, 340, 351	3261	72	287, 289-290, 340
2823	48	221-222, 340	3261PB	72	287, 289-290
2824	40	221-222, 340, 351	3262	96	287, 289-290, 340
2825	48	221-222, 340	3262PB	96	287, 289-290
2904	128 <b>128</b>	304 <b>304</b>	3263	48	287, 289-290, 341
	128	304	3264	48	287-288
2905			<b>3265</b> 3265PB	100	287, 289-290, 340
2906		304			287, 289-290
2906 2907	128	<b>304</b> 303		100	
2906	<b>128</b> 128	303	3266	62.22	287, 289-290, 340
<b>2906 2907</b> 2908	128		3266 3268	62.22 70	287, 289-290, 340 287, 289-290, 340
<b>2906 2907</b> 2908 2909	<b>128</b> 128 128	303 303	3266 3268 3269	62.22 70 93.33	287, 289-290, 340 287, 289-290, 340 287, 289-290, 340
2906 2907 2908 2909 2910	128 128 128 128	303 303 <b>303</b>	3266 3268 3269 3276	62.22 70 93.33 75	287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340
2906 2907 2908 2909 2910 2911	128 128 128 128 128	303 303 <b>303</b> <b>303</b>	3266 3268 3269 3276 3277	62.22 70 93.33 75 100	287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340
2906 2907 2908 2909 2910 2911 2968	128 128 128 128 128 128	303 303 <b>303</b> <b>303</b> 301-302	3266 3268 3269 3276	62.22 70 93.33 75	287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340
2906 2907 2908 2909 2910 2911 2968 2970	128 128 128 128 128 128 128	303 303 <b>303</b> <b>303</b> 301-302 301-302	3266 3268 3269 3276 3277 3278 3279	62.22 70 93.33 75 100 100 84	287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287-288, 340 287, 289-290, 340
2906 2907 2908 2909 2910 2911 2968 2970 2983	128 128 128 128 128 128 128 120 128	303 303 303 303 301-302 301-302 301-302	3266 3268 3269 3276 3277 3278	62.22 70 93.33 75 100 100	287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340 287, 289-290, 340
2906 2907 2908 2909 2910 2911 2968 2970 2983 2988	128 128 128 128 128 128 120 120 128 80	303 303 303 301 301-302 301-302 301-302	3266 3268 3269 3276 3277 3278 3279 3280	62.22 70 93.33 75 100 100 84 84	287, 289-290, 340 287, 289-290, 340

## **CEILING PRODUCTS**

#### Service Category Service Level Availability Details Made-To-Stock Items (bold face type) Item numbers noted in BOLD on this index Α 5-10 days Made-To-Order Items (not inventoried) С 20-30 days Special Made-To-Order Items (not inventoried) 30 days plus S Minimum quantities and setup charges apply 30 days plus Minimum quantities apply

				Metric Items			
Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. C
3283	67.5	287, 289-290, 340	538	40	229, 231-232	5574	10
3284	90	287, 290, 340	5389	250 pcs	182	558	4
3285	100	287, 290, 340	539	48	229, 231-232	5581	50
3286	100	287-288, 340	5396	Bulk	144	5582	50
3287	112	287, 290, 340	5398	Bulk	144	5583	50
3288	117.33	287, 290, 340	539HRC	48	229, 231-232	5588	
3289	93.33	287, 290, 340	5401W1	16	175-176	5594	В
3290	48	287, 289-290,	5401W2	16	175-176	5596	100
		340-341	5401W3	16	175-176	5597	1
3314	96	295-296	5401W4	16	175-176	5598	100
3315	96	295-296	5401W5	16	175-176	5600	В
3316	64	295-296	5401W6	16	175-176	56001B1	4 (
3317	64	295-296	5403W1	16	175-176	56001B3	4 (
3352	96	283-284	5403W2	16	175-176	56002B1	4 (
3353	96	283, 285-286	5403W3	16	175-176	56002B3	4 (
3354	96	287-288, 351	5403W4	16	175-176	56003B1	4 (
3355	96	287, 289-290	5403W5	16	175-176	56003B3	4 (
3356	64	283, 285-286	5403W6	16	175-176	56004B1	4 (
3900	48	291-292, 340	5404W1	16	171-174	56004B3	4 (
3900PB	48	291-292	5404W2	16	171-174	56005B1	4 (
3901	48	291-292		16			
3902	48	291-292	5404W3		171-174	56005B3	4 (
3902	48	291-292	5404W4	16	171-174	56006B1	4 (
3 <b>904</b>			5404W5	16	171-174	56006B3	4 (
	75 75	291-292, 340	5404W6	16	171-174	56007B1	4 (
3905	75	291-292	54051	10	83	56007B3	4 (
3906	72	291-292, 340	54052	20	83	56008B1	4 (
3907	96	291-292, 340	54061	12	83	56008B3	4 (
3908	96	291-292, 340	54062	24	83	56009B1	4 (
3908PB	96	291-292	5406W1	4	171-174, 340	56009B3	4 (
3909	64	291-292, 340	5406W2	4	171-174, 340	5600HDC	2
3920		59-64	5406W3	4	171-174	56051	В
3921		59-64	5406W4	4	171-174	56052	В
3922		59-64	5406W5	4	171-174	56053	В
3923		59-64	5406W6	4	171-174	56054	В
4075H/V	Bulk	85-86	54101	40	83	56055	В
415H/V	Bulk	85-86	54102	80	83	56056	В
4225H/V	Bulk	85-86	5415W1	16	174, 199	5629	D
430H/V	Bulk	85-86	5419W1	32	174, 199	563	4
435		272, 274, 290, 343	5438	32	97	5630	
4375H/V	Bulk	85-86	5440	16		5631	
440A	50 pcs	320, 405			95-96		
441	00 600	78, 292, 294, 405	5441	16	95-96	5632	
442A	50 pcs	199-200, 278, 292,	5442	16	95-96	5635	
7760	30 pc3	294, 320, 405	5443	16	95-96	5636	1
445H/V	Bulk	85-86	5444	16	95-96	565	2
4525H/V	Bulk	85-86	5445	16	95-96	5650	В
460H/V	Bulk	85-86	5448	24	95-96	5659W1	6
475H/V	Bulk	85-86	5449	32	95-96	5660W1	6
			5450		97	5671	
490H/V	Bulk	85-86	5451		97	5672	
4STR	Bulk	85-86	5452		97	5674	
510	48	235-236	5453		97	5675	
511	48	235-236	5454		97	568	4
512	48	235-236	5455		97	5687	250
513	48	235-236	5479	48	124, 126, 174, 184,	5688	250
514	48	235-236	00	.0	194, 130, 156, 200	5692	200
522	80 pcs	278, 292, 294, 405	5488P1WH	32	143-144	5693	
533	48	227-228	5488P4WH	32	143-144	5694	
5330	32	141-142	5490	43	131-132		
5331	32	141-142	5490	53	131-132	572	4
5332	42.7	141-142		43		5725	2
5333	42.7	141-142	5492		131-132	5726	2
5335	40	141-142	5493	53	131-132	5727	2
			5494	16 pcs	134	5728	2
5336	5 pcs	141-142	5495	50 pcs	134	5729	2
5337	100 pcs	141-142	5496	50 pcs	134	574	4
533HRC	48	227-228	5496	50 pcs	134	574HRC	2
534	40	229, 231-232	551	48	229-230	576	4
5342	32	124, 126, 156	556	40	229-230	577	4
5344	60	124, 126, 156	557	48	233-234	578	
	60	124, 126, 156	5570	48	131-132	5790	40
5346				-10	101 102	3730	48
5346 <b>535</b>	48	229, 231-232	5571	48	131-132	5791	48

Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No.
5574	10 pcs	134	5792	48 pcs	292, 320
558	40	229-230	5793	48 pcs	292, 320
5581	50 pcs	134	581	48	229, 232
5582	50 pcs	134	5823	48	174, 184, 186, 194,
5583	50 pcs	134			198, 124, 126,
5588		97			128, 130, 146, 148, 155, 200
5594	Bulk	144	583	48	229, 232
5596	100 pcs	144	584	48	229, 231-232
5597	1 pc	144	5843	100 pcs	196
5598	100 pcs	144	584HRC	48	
5600	Bulk	157			229, 231-232
56001B1	4 OR 8	149-150	585	48	233-234
56001B3	4 OR 8	149-150	589	48	229, 231-232
56002B1	4 OR 8	149-150	589HRC	48	229, 231-232
56002B3	4 OR 8	149-150	590	48	233-234
56003B1	4 OR 8	149-150	5900CW7	3.7	181-182
56003B3	4 OR 8	149-150	5900CW8	3.7	181-182
56004B1	4 OR 8	149-150	5900CW9	3.6	181-182
56004B3	4 OR 8	149-150	5901CW7	4.63	181-182
56005B1	4 OR 8	149-150	5901CW8	4.63	181-182
56005B3	4 OR 8	149-150	5901CW9	4.49	181-182
56006B1	4 OR 8	149-150	5903W7	16	179-180
56006B3	4 OR 8	149-150	5903W8	16	179-180
56007B1	4 OR 8	149-150	5903W9	16	179-180
			5904W7	16	177-178
56007B3	4 OR 8	149-150	5904W8	16	177-178
56008B1	4 OR 8	149-150	5904W9	16	177-178
56008B3	4 OR 8	149-150	591	48	233-234
56009B1	4 OR 8	149-150	5918W1	Bulk	100
56009B3	4 OR 8	149-150	5918W3	Bulk	100
5600HDC	200	157	5919W1	Bulk	100
56051	Bulk	157	5919W3	Bulk	100
56052	Bulk	157	5920W1	Bulk	100
56053	Bulk	157	5920W3	Bulk	100
56054	Bulk	157	5921W1	Bulk	100
56055	Bulk	157	5921W3	Bulk	100
56056	Bulk	157	5948	30 pcs	196
5629		97	5965P1	8 pcs	144
563	40	227-228	5965P4	8 pcs	144
5630		97	5979W1	Bulk	100
5631		97	5983	8	183-184
5632		97	5984	12	183-184
5635	16	95-96	5985	16	183-184
5636	16	95-96	5986	50	130
565	48	227-228	605	48	225-226
5650	Bulk	144	607	48	225-226
5659W1	60	174, 199	608	48	225-226
5660W1	60	174, 199	6091	50 pcs	174, 200
5671		188, 192	6096	95.57	157
5672		188	6098	50 pcs	124, 126, 157
5674		188	6099	97.14	157
5675		188	6128AM	37.14	135-138
568	48	229-230	6129AM		135-138
5687	250 pcs	188, 192	6131AM		135-138
5688	250 pcs	188	6132AM		135-138
5692	16	95-96			
5693	16	95-96	6133AM		135-138
5694	16	95-96	6136AM		135-138
572	40	229, 232	6137AM		135-138
5725	20	281-282	6138AM		135-138
5726	20	281-282	6139AM		135-138
5727	20	281-282	615H/V	Bulk	85-86
5728	20	281-282	6188	40	139-140
5729	20	281-282	6189	40	139-140
574	48	227-228	6193	40	139-140
574HRC	48	227-228	6194	40	139-140
576	40	229, 232	6225H/V	Bulk	85-86
577	48	229, 231-232	625530	4 pcs	84, 94, 97
578	48	229, 231-232	6258	Bulk	93-94
5790	48 pcs	292, 320	6259	Bulk	93-94
5791	48 pcs	292, 320	626	48	233-234
	.0 100	202, 020	6260	Bulk	93-94
		'		<b>A</b>	

**CEILING PRODUCTS** • SF per carton unless otherwise noted

Packaging information is subject to change. Before specifying or ordering, contact TechLine at 1 877 ARMSTRONG (276-7876).

Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No
6261	Bulk	93-94	6647M1		341	7125	80	146, 155-156	7263	Bulk	187-188
628	48	233-234	6648M1		341	7131	48	155-156	7264	Bulk	187-188
630H/V	Bulk	85-86	6649M1		341	7140	Bulk	127-128	7265	Bulk	187-188
6375H/V	Bulk	85-86	6650M1		341	7141	Bulk	127-128	7266	Bulk	187-188
6408	25	174, 184, 194, 199	6656M1	8 pcs	130	7146	Bulk	192	734	80	248
6410AM		135-138	6657	Dulls	192, 200	7147	4 1-24	155-156	735	64	248
6411AM 6412AM		135-138 135-138	6660W1 6661B1L5	Bulk 4	195-196 149-150	7149 7154	1 kit Bulk	84 127-128	737 <b>741</b>	64 <b>40</b>	248 <b>254</b>
6413AM		135-138	6662B1L5	4	149-150	7155	Bulk	127-128	746	40	254
6414AM		135-138	6664	Bulk	129-130	7156	Bulk	84	747	64	243-244
6415AM		135-138	6665	Bulk	129-130	7157	Bulk	84	755	96	262
6416AM		135-138	6666	Bulk	129-130	7158	Bulk	84	756	64	262
6417AM		135-138	6667	Bulk	129-130	7159	Bulk	84	763	96	263-264
6418AM		135-138	6668	Bulk	129-130	7160	48	131-132	764	64	263-264
6440W1		195-196	6680	Bulk	179-180	7161	48	131-132	769	96	243-244
6447W1	22.5	281-282	6681	Bulk	177-178	7162	50 pcs	134	770	64	243-244
6448M1	22.5	281-282	6682	Bulk	179-180	7163	50 pcs	134	772	100	243-244
6448M2	22.5	281-282	6683	Bulk	177-178	7170		188	773	100	243-244
6459		194	6684	Bulk	179-180	7171			791	75	263-264
6459BL		188, 200	6685	Bulk	177-178	7172			793	96	263-264
645H/V	Bulk	85-86	6686	Bulk	179-180	7190		59-64	794	64	263-264
6460W1		195-196	6687	Bulk	177-178	7191		59-64	795	64	263-264, 305-306
6461	64	121-124	6688C	Bulk	181-182	7192		59-64	796	48	263-264, 305-306
6462	64	121-124	6689C	Bulk	181-182	7193		59-64	8005	48	265-266
6463	64	121-124	6690W1	Bulk	193-194	7194		59-64	8006	48	265-266
6464	64	121-124	6691W1	Bulk	193-194	7195	D !!	59-64	8007	48	265-266
6465	64	121-124	6692W1	Bulk	193-194	7202	Bulk	57-58	8008	48	307-308
6466M1	40	125-126	6693W1	Bulk	191-192	7203	Bulk	57-58	8009	32	307-308
6466M2	40	125-126	6694W1	Bulk	191-192	7205	24 pcs	57-58	8010	32	307-308
6466M3	40	125-126	672	96 64	267-268	7209	Bulk	151-152	8011	48	269-270
6480 6482	4 8	175-176 175-176	<b>673</b> 675H/V	Bulk	<b>267-268</b> 85-86	7210 7211	Bulk Bulk	151-152 151-152	<b>8013</b> 8120	<b>48</b> 32	<b>269-270</b> 131-132
6484	4	171-174, 340	680	48	279-280	7211	Bulk	151-152	8121	32	131-132
6485	6	171-174, 340	681	48	279-280	7213	Bulk	151-152	8122	53	131-132
6486	8	171-174, 340	682	48	279-280	7215	Bulk	145-146	8123	53	131-132
6487	12	171-174	683	64	279-280	7216	Bulk	145-146	8138	50 pcs	134
6510	12	171-174, 340	684	64	279-280	7217	Bulk	145-146	8139	50 pcs	134
6511		171-174, 340	685	64	279-280	7219	Bulk	145-146	815	48	262
6512		171-174, 340	686	48	279-280	7220	Bulk	147-148	8155		57-68
6513		341	687	48	279-280	7220DN1	Bulk	147-148	8156		57-68
6514		341	688	64	279-280	7220DN2	Bulk	147-148	8157		57-68
6519		341	690H/V	Bulk	85-86	7220DN3	Bulk	147-148	8159	50 pcs	134
6525H/V	Bulk	85-86	6STR	Bulk	85-86	7220DN4	Bulk	147-148	815H/V	Bulk	85-86
6541	13.5	281-282	7006	2 pcs	84, 94, 97	7220UP1	Bulk	147-148	816	48	243-244
6603W1	60	184, 194, 199	703	80	243-244	7220UP2	Bulk	147-148	8161	50 pcs	134
6605		65	704	64	243-244	7220UP3	Bulk	147-148	8183T10	32	229-330
6607		65	705	64	262	7220UP4	Bulk	147-148	8184T10	32	229-330
660H/V	Bulk	85-86	7085	8 pcs	54-55	7223	10 pcs	128	8185T10	32	331-332
6613	22.5	281-282	7086	8 pcs	54-55	7225	Bulk	151-152	8186T10	32	331-332
6614	22.5	281-282	7087	16 pcs	54-55	7226	Bulk	151-152	8190AM		135-138
6615	22.5	281-282	7088	Bulk	56	7240		59-64	8191AM		135-138
6616 6622	22.5	281-282	7089	Bulk	56	7241 7242		59-64	8192AM		135-138
6623	Bulk Bulk	197-198 197-198	7090 7091	Bulk	56 187-188	7242		59-64 59-64	8193AM 8194AM		135-138 135-138
6624	Bulk	197-198	7091		187-188	7243		59-64	8195AM		135-138
6625	Bulk	197-198	7092		187-188	7245		59-64	8196AM		135-138
6626	Bulk	197-198	7093		187-188	7245		59-64	8197AM		135-138
662808	Bulk	185-186	7095		187-188	7247		59-64	8198AM		135-138
662812	Bulk	185-186	7096		187-188	7248		59-64	8199AM		135-138
662912	Bulk	185-186	7097		187-188	7249		59-64	8200100	48	124, 126, 174, 184,
663008	Bulk	185-186	7098		187-188	7251M1		341			194, 128, 130, 144,
663012	Bulk	185-186	7099		187-188	7252M1		341			146, 148, 150, 155,
663112	Bulk	185-186	7110	Bulk	127-128	7255M1		341	0000:::		156, 200
6640W1	Bulk	195-196	7111	Bulk	127-128	7256M1		341	8200AM		135-138
6641		340	7112	10 pcs	128	7257M1		341	8201AM		135-138
6642		340	7113	40 pcs	128	7258M1		341	8202AM		135-138
6643		340	7119	1 pc	128	7259M1		341	8203AM	Dulle	135-138
6644		340	7120	1 pc	128	7260M1		341	8225H/V <b>823</b>	Bulk <b>48</b>	85-86 242-244
6645		340	7121		97	7261M1		341	823 824	48 64	243-244 243-244
6646		340	7123	10 pcs	127-128	7262M1		341	830H/V	Bulk	85-86

#### Service Category Service Level Availability Details 5-10 days 20-30 days Item numbers noted in BOLD on this index Made-To-Stock Items (bold face type) Α С Made-To-Order Items (not inventoried) Special Made-To-Order Items (not inventoried) Metric Items 30 days plus 30 days plus Minimum quantities and setup charges apply Minimum quantities apply S

CEILING	Special Made-To-Order Items (not inventoried) Metric Items				ot inventoried)	\$ _	30 days plus 30 days plus	Minimum quantities and setup charges apply Minimum quantities apply			
Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No.	Item No.	Sq. Ft.*/ Ctn.	Page No
8334PB	16	271-272, 341	FX4SPLICE		130, 157, 174, 200	S803	8	237-238	SV300806	1 kit	89-92
8335PB	20	271-272, 341	FXSPLICE		157, 174, 200	S804	8	237-238	SV300808	1 kit	89-92
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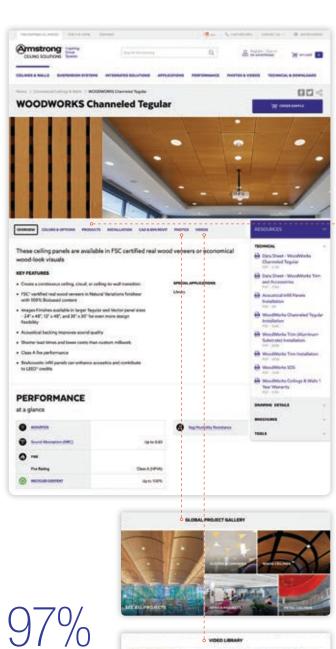
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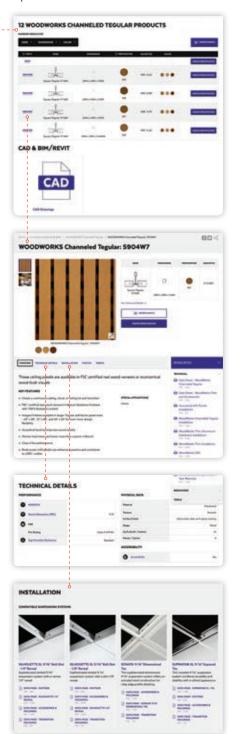
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