ACOUSTI-MAT®
ULTIMATE SOUND CONTROL SYSTEMS

- NEW CONSTRUCTION
- RENOVATION
- WOOD FRAME CONSTRUCTION
- CONCRETE CONSTRUCTION
- OPEN BEAM CONSTRUCTION
- LIGHT GAUGE STEEL CONSTRUCTION
- HARD SURFACE AREAS

PROVEN SOUND CONTROL SOLUTIONS
- Documented sound tests over a variety of assemblies
- More than 100 UL Fire Rated Designs
- Light weight, easy to install
- Low deflection rate with high load levels
- Durable — chemical and moisture insensitive
- Proven on over 500 million square feet
WHY ACOUSTI-MAT?

We have all experienced the pitfalls of an inferior sound control system. Whether in a commercial, multifamily, or single family application, sound control is important to the end user. Don’t let your project be one of the casualties of poor sound control.

With Acousti-Mat®, design possibilities include the full spectrum of floor good options such as marble, ceramic tile or hardwood, without sacrificing sound control. Acousti-Mat can be installed in hard surface areas only, or throughout the entire floor plan to ensure peace and quiet from impact and airborne noises. Backed by over 1,000 third party acoustical tests, Acousti-Mat is the proven sound control solution in all types of construction.

Designed for today’s fast-track project schedules, Acousti-Mat installation is fast and easy. After laying Acousti-Mat over the subfloor, Maxxon dealers pour a high-strength Maxxon Underlayment over it. Acousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4 and Acousti-Mat 3/4 Premium have a core of fused entangled filaments attached to a non-woven fabric that creates a void and actually isolates sound waves between the subfloor and the high-strength Maxxon Underlayment.

When installed together, the Acousti-Mat and Maxxon Underlayment form a warranted engineered system, offering peace of mind in your sound system.

Not only does Acousti-Mat help reduce noise pollution, it also promotes indoor air quality. The Acousti-Mat/Maxxon Underlayment system is the only sound control mat/underlayment system that is GREENGUARD and GREENGUARD Gold Certified.

The entangled mesh Acousti-Mat sound control mats may also help contribute toward points for LEED® project certification. For information regarding Acousti-Mat’s contribution to LEED, contact your Regional Representative at (800) 356-7887 or visit www.maxxon.com/go_green.

BECAUSE ONE ROOM’S FLOOR IS ANOTHER ROOM’S CEILING.
CHOOSING A SOUND MAT

WHICH SOUND MAT IS RIGHT FOR MY PROJECT?

There are many factors that go into determining which sound control mat you should choose:

WHAT IS THE FLOOR/CEILING ASSEMBLY?
The inherent design of a building can dictate the level of sound control you need in order to meet and/or exceed code. Knowing the base sound performance of your floor/ceiling assembly will help narrow down your choices for a sound control mat.

WHAT IS THE FIRE CODE?
Maxxon sound control mats are in numerous codes as well as in over 100 UL Fire Designs. See the chart on page 12 for a complete list of Maxxon’s UL Fire Designs. Refer to Maxxon’s Fire & Sound Manual for a list of UL numbers, the Maxxon sound control mats included in the design, and how each mat performs acoustically on the given assembly.

WHAT IS THE ACOUSTICAL REQUIREMENT?
The International Building Code specifies that assemblies shall have a sound transmission class (STC) of not less than 50 (45 if field tested). This STC rating measures the amount of airborne noise transmitted through common walls, partitions, and floor/ceiling assemblies. The code also specifies that the impact insulation class (IIC) rating, which measures the impact noise, be no less than 50 (45 if field tested).

It has been observed that this code level STC and IIC performance does not guarantee acoustical privacy or that complaints will not be received. In response, the authors of the International Building Code, the International Code Council, have issued an appendix to the code called ICC G2-2010 Guideline for Acoustics. This guideline concedes that current sound code minimums are not acceptable levels of sound control and establishes two additional levels of acoustical performance. Please refer to the chart below for the International Code Council’s Guideline for Acoustics.

WHAT IS THE BUDGET?
Of course, budget also needs to be taken into consideration when selecting a sound control mat. However, future use of the project should also be considered; improving acoustics once construction is complete is costly and time-consuming.

OTHER CONSIDERATIONS
What about projects that demand even better sound control or those with floor height limitations? Maxxon now offers a premium line of sound control solutions, Acousti-Mat Premium series, which maximizes sound control while keeping topping depth at a minimum. See page 4 to learn more.

<table>
<thead>
<tr>
<th>Mat</th>
<th>Commonly used in Assembly Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acousti-Mat 1/8</td>
<td>X</td>
</tr>
<tr>
<td>Acousti-Mat 1/4</td>
<td>X</td>
</tr>
<tr>
<td>Acousti-Mat 1/4</td>
<td>X</td>
</tr>
<tr>
<td>Acousti-Mat 3/8</td>
<td>X</td>
</tr>
<tr>
<td>Acousti-Mat 3/8</td>
<td>X</td>
</tr>
<tr>
<td>Acousti-Mat 3/4</td>
<td>X</td>
</tr>
<tr>
<td>Acousti-Mat 3/4</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Laboratory Sound Rating</th>
<th>Field Sound Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code Minimum</td>
<td>50 STC/IIC</td>
</tr>
<tr>
<td>Acceptable Performance</td>
<td>55 STC/IIC</td>
</tr>
<tr>
<td>Preferred Performance</td>
<td>60 STC/IIC</td>
</tr>
</tbody>
</table>
As you determine the proper level of sound control for your project, keep in mind Maxxon’s new Premium upgrade. Available on Acousti-Mat 1/4, Acousti-Mat 3/8 and Acousti-Mat 3/4, this innovative upgrade adds the noise deadening technology of a high performance acoustical fabric that is laminated to the bottom of each mat’s entangled mesh core. The Premium fabric creates an absorptive cushion upon which the entangled mesh “spring” rests.

The Acousti-Mat Premium line of sound control mats reduces impact noise without adding to the overall floor height, making it an ideal solution where floor height considerations play a role or simply to provide upgraded sound control without adding to the required topping depth. Detailed information on Acousti-Mat 1/4 Premium, Acousti-Mat 3/8 Premium and Acousti-Mat 3/4 Premium is available on pages 6-9 of this brochure.

**INTERACTIVE SYSTEM SELECTOR**

Maxxon Corporation now offers an Interactive System Selector to help you identify the best sound control system for your project. A few clicks of your mouse allows you to see how recommended Acousti-Mat products impact the sound control performance of your assembly. In addition to providing approximate sound ratings, the Interactive System Selector helps to identify the best solutions for upgraded sound control and matches your selections to a common UL Fire Rated Design. The Interactive System Selector also allows you to e-mail detail drawings and to request sound tests based on your selections. Get started at www.maxxon.com/selector.

**SYSTEM SELECTOR CHART**

<table>
<thead>
<tr>
<th>Mat</th>
<th>Topping Min.</th>
<th>Total System Height</th>
<th>Approximate Sound Rating**</th>
<th>Typical Code Performance***</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>F-IIC/F-STC</td>
<td></td>
</tr>
<tr>
<td>Acousti-Mat 1/8</td>
<td>3/4&quot; (19 mm)</td>
<td>≈1&quot;</td>
<td>50–53</td>
<td>57–59</td>
</tr>
<tr>
<td>Acousti-Mat 1/4</td>
<td>1&quot; (25 mm)</td>
<td>1 1/4&quot;</td>
<td>51–54</td>
<td>58–60</td>
</tr>
<tr>
<td>Acousti-Mat 1/4 Premium</td>
<td>1&quot; (25 mm)</td>
<td>≈1 1/4&quot;</td>
<td>54–57</td>
<td>58–60</td>
</tr>
<tr>
<td>Acousti-Mat 3/8</td>
<td>1&quot; (25 mm)</td>
<td>1 1/6&quot;</td>
<td>54–57</td>
<td>58–60</td>
</tr>
<tr>
<td>Acousti-Mat 3/8 Premium</td>
<td>1&quot; (25 mm)</td>
<td>≈1 1/6&quot;</td>
<td>57–60</td>
<td>59–61</td>
</tr>
<tr>
<td>Acousti-Mat 3/4</td>
<td>1 1/2&quot; [38 mm] Reinforced</td>
<td>2 1/4&quot;</td>
<td>57–60</td>
<td>59–62</td>
</tr>
<tr>
<td>Acousti-Mat 3/4 Premium</td>
<td>1 1/2&quot; [38 mm] Reinforced</td>
<td>≈2 1/4&quot;</td>
<td>61–64</td>
<td>59–62</td>
</tr>
</tbody>
</table>

* Approximate ratings above include a hard surface finished floor good in traditional wood frame construction. Actual ratings may vary based on project variables. F-IIC/F-STC levels above are an approximation of sound reduction potential in a well-designed, acoustically sound assembly. It should be expected that carpet and pad will significantly increase the overall performance of the sound control system. This information is based on solid data and years of experience in the underlayment industry, however, due to the many variables beyond our control (for example quality control of drywall installation, type of resilient channel, design and density of the building materials, flanking paths, etc.), it should not be considered a guarantee of performance. The code performance listed represents typical levels found in wood frame construction utilizing insulating, resilient channel and gypsum board ceiling.

** See Page 3 for explanation of ICC 02-2010 Guidelines for Acoustics.

*** Consult the System Selector and/or Maxxon for approximate sound ratings over concrete or steel deck.
You know “good enough” sound control meets code requirements. But you also know toddlers squeal as they run down hallways, teenagers love Taylor Swift, and 20-somethings climb onto their treadmills about the same time others are climbing into bed.

Sure, you know how to meet minimum sound requirements. But you choose to build for the quiet and comfort of real people. People who eat, sleep, dance, study, laugh and live in the real world. Acousti-Mat is for professionals who build wood-frame, multifamily homes for the real world. Professionals who consider performance as well as price.

That’s why we’ve been revolutionizing the sound control industry since 1972. And, it’s why we offer 7 sound control underlayment solutions today. Each living up to our promise of performance and dependability. Add easy ordering, continuing education, and an exceptional warranty and you’d think you had everything you need to build the best floor assembly possible.

But, there’s one more ingredient we’re proud to include with every Acousti-Mat product… real service.

VIRTUAL ACOUSTI-MAT® APARTMENT

Maxxon is excited to launch a truly ground breaking, first of its kind, tool to the sound control industry - the Virtual Acousti-Mat® Apartment. This virtual reality themed walk through will allow users to experience common multifamily sounds combined with the powerful sound reduction of Acousti-Mat.

In each of the six hotspot locations, users will be introduced to a variety of room-specific noises upstairs neighbors may produce. You will have the option to hear each noise in 6 levels of sound control by clicking on the appropriate logo:

- 3/4” Underlayment, no sound mat
- 3/4” Underlayment & ACOUSTI TOP
- ACOUSTI MAT 1/8
- ACOUSTI MAT 1/4
- ACOUSTI MAT 3/8
- ACOUSTI MAT 3/4

Visit www.Maxxon.com/VAA today!
**ACOUSTI MAT**

**BENEFITS**

- Acousti-Mat® SBR paired with either Acousti-Mat® 3/4 or Acousti-Mat® 3/4 Premium to form the Double Mat System
- The proven solution for the toughest assemblies like Open Beam and Mass Timber construction
- Sound Tests available
- Sound control that stays in place under a Maxxon Underlayment when floor goods are removed
- Enhanced IIC & STC performance
- Solutions available at 3” or less

**TECHNICAL DATA**

- **Description**: Entangled polymeric filament mat
- **Thickness**: nominal 1/8” (3 mm)
- **Composite Weight**: See page 12
- **Thermal Resistance** R-Value (HR °F•h/BTU): 0.144
- **Pressure/Deflection**: See page 4
- **Underlayment Depth**: See page 4

**Pressure/Deflection**

<table>
<thead>
<tr>
<th>Pressure</th>
<th>Deflection</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 psf</td>
<td>0.013&quot; (0.33 mm)</td>
</tr>
<tr>
<td>100 psf</td>
<td>0.017&quot; (0.43 mm)</td>
</tr>
<tr>
<td>200 psf</td>
<td>0.021&quot; (0.53 mm)</td>
</tr>
<tr>
<td>300 psf</td>
<td>0.025&quot; (0.63 mm)</td>
</tr>
</tbody>
</table>

**Fire Performance**

| Fuel Contribution | 0 |
| Smoke Contribution | 0 |
| Flame Spread | 0 |

**UL Fire Designs**

See page 12

**Fire & Sound Code Listings**

See page 12

---

**PROJECT SPOTLIGHT**

**C&E LOFTS**

ST. PAUL, MN

Contractor: Frana Companies
Architect: BKV Group
Scope: 32,000 sq. ft. of Acousti-Mat 1/4, 56,000 sq. ft. of reinforced double mat system of Acousti-Mat SBR and Acousti-Mat 3/4 topped with 88,000 sq. ft of 2’ of GypCrete 2000/3.2K and 3/4” Commercial Topping.

---

**ACOUSTI MAT 1/8**

**TECHNICAL DATA**

- **Description**: Entangled polymeric filament mat
- **Thickness**: nominal 1/8” (3 mm)
- **Composite Weight**: See page 12
- **Thermal Resistance** R-Value (HR °F•h/BTU): 0.440
- **Pressure/Deflection**: See page 4
- **Underlayment Depth**: See page 4

**Pressure/Deflection**

<table>
<thead>
<tr>
<th>Pressure</th>
<th>Deflection</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 psf</td>
<td>0.013&quot; (0.33 mm)</td>
</tr>
<tr>
<td>100 psf</td>
<td>0.017&quot; (0.43 mm)</td>
</tr>
<tr>
<td>200 psf</td>
<td>0.021&quot; (0.53 mm)</td>
</tr>
<tr>
<td>300 psf</td>
<td>0.025&quot; (0.63 mm)</td>
</tr>
</tbody>
</table>

**Fire Performance**

| Fuel Contribution | 0 |
| Smoke Contribution | 0 |
| Flame Spread | 0 |

**UL Fire Designs**

See page 12

**Fire & Sound Code Listings**

See page 12

---

**PROJECT SPOTLIGHT**

**BREWHOUSE INN**

MILWAUKEE, WI

Contractor: Gorman & Company
Architect: Gorman & Company
Scope: EPS board and Gyp-Crete 2000®/3.2K were used to remove up to 7” of slope from existing floors. Acousti-Mat® 1/8 and Gyp-Crete 2000/3.2K were installed for superior sound control. Total project was 76,235 sq. ft.
**ACOUSTI MAT 1/4**

**TECHNICAL DATA**

- **Description**: Entangled polymeric filament mat
- **Thickness**: 1/4" (6 mm)
- **Composite Weight**: ~13.95 oz/y²
- **Thermal Resistance R-Value (R°°F•h/BTU)**
  - Mat Only: 0.620
  - 1" Maxxon Underlayment: 0.192
  - Mat/Underlayment System: 0.812
- **Underlayment Depth**: See page 4

**Pressure/Deflection**

- 500 psf (2,441 kg/m²).................. 0.047" (1.19 mm)
- 1,000 psf (4,882 kg/m²)............. 0.068" (1.72 mm)
- 2,000 psf (9,765 kg/m²)............. 0.098" (2.48 mm)

**Fire Performance**

- **ASTM E-84 w/ Maxxon Underlayment**:
  - Fuel Contribution: 0
  - Smoke Contribution: 0
  - Flame Spread: 0

**UL Fire Designs**

- See page 12

**Fire & Sound Code Listings**

- See page 12

**PROJECT SPOTLIGHT**

- **EASTERN NEW MEXICO UNIVERSITY**
  - *PORTALES, NM*
  - **Contractor**: Bradbury Stamm Construction, Inc.
  - **Architect**: Van H. Gilbert Architect, PC
  - **Scope**: 47,700 sq. ft. of Acousti-Mat® 1/4 and Maxxon® Reinforcement topped with Level-Right®.

**SOLARIUM AT PONCE HALL**

- **FLAGLER COLLEGE**
  - *ST. AUGUSTINE, FL*
  - **Contractor**: A.D. Davis Construction Corp.
  - **Architect**: Kenneth Smith Architects, Inc.
  - **Scope**: 2,700 sq. ft. of Acousti-Mat® 1/4 Premium topped with 1-3"+ of Maxxon® Underlayment.

**BENEFITS**

- Low 1/4" profile allows a thinner floating floor composite
- Increases STC rating 6–15 points when compared to a bare wood frame system
- Increases IIC rating up to 10 points over wood frame and up to 20 points over concrete
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet

**TECHNICAL DATA**

- **Description**: Acoustical fabric entangled mesh mat, for an overall approximate 1/4" mat profile
- **Thermal Resistance R-Value (R°°F•h/BTU)**
  - Mat Only: 0.050
  - 1" Maxxon Underlayment: 0.192
  - Mat/Underlayment: 1.242
- **Underlayment Depth**: See page 4

**Pressure/Deflection**

- 500 psf (2,441 kg/m²).................. 0.047" (1.19 mm)
- 1,000 psf (4,882 kg/m²)............. 0.068" (1.72 mm)
- 2,000 psf (9,765 kg/m²)............. 0.098" (2.48 mm)

**Fire Performance**

- **ASTM E-84 w/ Maxxon Underlayment**:
  - Fuel Contribution: 0
  - Smoke Contribution: 0
  - Flame Spread: 0

**UL Fire Designs**

- See page 12

**Fire & Sound Code Listings**

- See page 12

**PROJECT SPOTLIGHT**

- **C&E LOFTS**
  - **ST. PAUL, MN**

**BENEFITS**

- Acousti-Mat 1/4 Premium attaches an acoustical fabric entangled mesh mat, for an overall approximate 1/4" mat profile
- Requires only a 1" topping (3/4" with reinforcement)
- Increases IIC rating up to 13 points over wood frame and up to 20 points over concrete
- Increases STC rating 6–15 points when compared to a bare wood frame system
- GREENGUARD Gold Certified
- Sound tests available on sales/technical sheet
ACOUSTI MAT 3/8

TECHNICAL DATA

**Description**
Entangled polymeric filament mat

**Thickness**
3/8” (10 mm)

**Composite Weight**
≈21.54 oz/y²

**Thermal Resistance** (R-Value (ft²•°F•h)/BTU)

<table>
<thead>
<tr>
<th>Pressure/Deflection</th>
<th>500 psf (2,441 kg/m²)</th>
<th>0.067” (1.70 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,000 psf (4,882 kg/m²)</td>
<td>0.116” (2.95 mm)</td>
</tr>
<tr>
<td></td>
<td>2,000 psf (9,765 kg/m²)</td>
<td>0.172” (4.37 mm)</td>
</tr>
</tbody>
</table>

**Fire Performance** ASTM E-84 w/ Maxxon Underlayment

- Fuel Contribution: 0
- Smoke Density: 0
- Flame Spread: 0

**UL Fire Designs** See page 12

**Fire & Sound Code Listings** See page 12

**Project Spotlight**

**Contractor:** JMI Realty

**Architect:** Hornberger & Worstell, Inc.

**Scope:** 80,000 sq. ft. of Acousti-Mat® 3/8 and Maxxon® Underlayment installed in 36 luxury condominiums on floors 22 through 32, which overlooks San Diego harbor and the San Diego Petco Ballpark.

---

ACOUSTI MAT 3/8 PREMIUM

TECHNICAL DATA

**Description**
Entangled polymeric filament mat attached to water-resistant fabric

**Premium Layer**
Microfibrous non-woven fabric

**Thickness, nominal**
3/8” (10 mm)

**Composite Weight**
≈23.54 oz/y²

**Thermal Resistance** (R-Value (ft²•°F•h)/BTU)

<table>
<thead>
<tr>
<th>Pressure/Deflection</th>
<th>500 psf (2,441 kg/m²)</th>
<th>0.069” (1.75 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,000 psf (4,882 kg/m²)</td>
<td>0.146” (3.71 mm)</td>
</tr>
<tr>
<td></td>
<td>2,000 psf (9,765 kg/m²)</td>
<td>0.264” (6.71 mm)</td>
</tr>
</tbody>
</table>

**Fire Performance** ASTM E-84

- Fuel Contribution: 0
- Smoke Density: 0
- Flame Spread: 0

**UL Fire Designs** See page 12

**Fire & Sound Code Listings** See page 12

**Project Spotlight**

**Contractor:** MBA Development Co.

**Architect:** Mutchler Bartram Architects

**Scope:** Gyp-Crete 2000®/3.2K poured as a leveling layer. 9,000 sq. ft. of Acousti-Mat® 3/8 Premium topped with Gyp-Crete 2000/3.2K poured at a depth of 1 5/8”.

---

**Benefits**

- Durable and proven solution — the only mat in the industry tested after 10 years of use. (Acousti-Mat 3/8 retained 97% of original thickness, was as pliable as a new roll, and performed equally to a newly manufactured roll.)
- Increases IIC rating up to 13 points over wood frame and up to 20 points over concrete
- Requires only a 1” topping (3/4” with reinforcement)
- Exceeds code minimum to achieve the “Preferred Performance” higher IIC and STC levels, as outlined in the ICC Guideline for Acoustics (For more information, see page 3)
- Sound tests available on sales/technical sheet
- Increases STC rating 6–15 points when compared to a bare wood frame system
- **GREENGUARD Gold Certified**

---

**Benefits**

- Acousti-Mat 3/8 Premium combines acoustic fabric with entangled mesh for an overall approximate 3/8” (10 mm) mat profile
- Requires only a 1” topping (3/4” reinforcement)
- Increases IIC rating up to 17 points over wood frame and up to 25 points over concrete
- Increases STC rating 6–15 points when compared to a bare wood frame system
- **GREENGUARD Gold Certified**
- Sound tests available on sales/technical sheet

---

**THE METROPOLITAN CONDOS**
**OMNI SAN DIEGO HOTEL**
**SAN DIEGO, CA**

**Contractor:** JMI Realty

**Architect:** Hornberger & Worstell, Inc.

**Scope:** 80,000 sq. ft. of Acousti-Mat® 3/8 and Maxxon® Underlayment installed in 36 luxury condominiums on floors 22 through 32, which overlooks San Diego harbor and the San Diego Petco Ballpark.

---

**KRI BUILDING**
**NORTH FARGO, ND**

**Contractor:** MBA Development Co.

**Architect:** Mutchler Bartram Architects

**Scope:** Gyp-Crete 2000®/3.2K poured as a leveling layer. 9,000 sq. ft. of Acousti-Mat® 3/8 Premium topped with Gyp-Crete 2000/3.2K poured at a depth of 1 5/8”.

---
ACOUSTI MAT 3/4

TECHNICAL DATA
Description: Entangled polymeric filament mat
Thickness: 3/4" (19 mm)
Composite Weight: 21.54 oz/y²
Thermal Resistance: R-Value (ft²•°F•h/BTU)
Mat Only: 1.550
1/2" Maxxon Underlayment: 0.288
Mat/Underlayment System: 1.838
Underlayment Depth: See page 4

Pressure/Deflection
50 psf (244 kg/m²)............ 0.05" (1.27 mm)
100 psf (488 kg/m²).......... 0.08" (2.03 mm)
200 psf (976 kg/m²).......... 0.15" (3.81 mm)
300 psf (1,465 kg/m²)...... 0.21" (5.33 mm)

Fire Performance
ASTM E-84 w/ Maxxon Underlayment
Fuel Contribution: 0
Smoke Density: 0
Flame Spread: 0
UL Fire Designs: See page 12
Fire & Sound Code Listings: See page 12

DISTRICT CONDOS - PHASE II WINNIPEG, MB CANADA
Contractor: Streetside Development Corporation
Architect: 701 Architecture, Inc.
Scope: 32,000 sq. ft. of Maxxon® Moistop, Reinforced AcoustiMat® 3/4 topped with 1 1/2" Gyp-Crete 2000®/3.2K.

BENEFITS
• Provides maximum sound isolation for open beam, concrete slab, and conventional wood frame construction
• Puts a stop to noise that has been impossible to control
• Increases IIC rating up to 17 points over wood frame and up to 25 rating points or more over concrete
• Increases STC rating 6–15 points when compared to a bare wood frame system
• GREENGUARD Gold Certified
• Sound tests available on sales/technical sheet

ACOUSTI MAT 3/4 PREMIUM

TECHNICAL DATA
Description: Entangled polymeric filament mat attached to water-resistant fabric
Premium Layer: Microfibrous non-woven fabric
Thermal Resistance: R-Value (ft²•°F•h/BTU)
Mat Only: 2.150
1 1/2" Maxxon Underlayment: 0.288
Mat/Underlayment: 2.438

Pressure/Deflection
50 psf (244 kg/m²)............. 0.013" (0.33 mm)
100 psf (488 kg/m²).......... 0.031" (0.79 mm)
200 psf (976 kg/m²).......... 0.128" (3.25 mm)
500 psf (2,441 kg/m²)...... 0.218" (5.54 mm)
1,000 psf (4,882 kg/m²).... 0.218" (5.54 mm)

Fire Performance
ASTM E-84
Fuel Contribution: 0
Smoke Density: 0
Flame Spread: 0
UL Fire Designs: See page 12
Fire & Sound Code Listings: See page 12

BENEFITS
• AcoustiMat 3/4 Premium combines acoustical fabric with entangled mesh, for an overall approximate 3/4" mat profile
• Increases IIC rating up to 20 points over wood frame and up to 30 points over concrete
• Increases STC rating 6–15 points when compared to a bare wood frame system
• GREENGUARD Gold Certified
• Sound tests available on sales/technical sheet

MEYER RAAPKE FLATS OMAHA, NE
Contractor: KSI Construction
Architect: Alley Poyner Macchietto Architecture PC
Scope: 18,000 sq. ft. of 1 1/2" Gyp-Crete® to flatten floor.
AcoustiMat® 3/4 Premium and Maxxon Reinforcement with 1 1/2" Gyp-Crete 2000®/3.2K on second, third and fourth floors.
MAXXON® REINFORCEMENT & MAXXON® FIBERS

Project conditions such as potential movement of the subfloor — which could cause ceramic tile or other hard surface floor goods to crack — often require reinforcement of the underlayment.

Maxxon Reinforcement and Maxxon Fibers provide a reliable and cost-effective alternative to traditional metal lath, which is difficult to install and has been rapidly increasing in cost. Maxxon Reinforcement and Maxxon Fibers can also reduce the depth of the underlayment over a sound control mat.

MAXXON REINFORCEMENT

- Excellent durability
- Light — easy to handle
- No memory (unlike metal lath)
- Dimensionally stable in hot weather; not brittle in cold
- Long rolls reduce installation cost (compared to conventional galvanized metal lath)
- Can be used over wood, concrete and precast plank or in conjunction with a sound control mat

MAXXON REINFORCEMENT MAY BE USED:

- To reduce underlayment thickness to 3/4" (19 mm) over Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8 and Acousti-Mat 3/8 Premium
- As the reinforcement on an Acousti-Mat 3/4, Acousti-Mat 3/4 Premium or Double Mat system
- To reinforce underlayment in various specialty applications

MAXXON FIBERS

- Ideal for wood frame and multi family construction
- Excellent “no fuzz” finishability with improved impact resistance
- Provides multi-dimensional reinforcement
- Enhances durability and toughness of Maxxon Underlayment

ACOUSTI-MAT® INSTALLATION

Note: Installation procedures will vary slightly for Double Mat System. Contact Maxxon Corporation for specific installation procedures.

**Step 1**

Sound mat is loose laid over the entire concrete or wood subfloor.

**Step 2**

Seams between sections of sound mat are adhered with zip-strips or taped.*

*Once the mat has been loose laid, no further penetrations should be made. Rigid attachment through the sound mat minimizes the sound performance.

**Step 3**

Isolation strips are installed, then taped, around the perimeter of the rooms receiving Acousti-Mat to eliminate flanking paths. Isolation strips are also installed, then taped, around any vertical penetration through the floor.

**Step 4**

Sound mat is topped with an approved Maxxon Underlayment, at a depth† specific to the application. To ensure uniform depth and a smooth finish, installers use a screed to finish the underlayment surface. (If Acousti-Mat is installed only in hard surface areas, the underlayment is poured directly over the subfloor in areas to be covered with carpet and pad.)

†See page 4 for underlayment depth guidelines

**Step 5**

In as little as two hours after the underlayment has been poured, the floor is hard enough to accommodate foot traffic, so light subtrades may continue working. Total drying time varies depending on the type of finished floor goods to be installed, but is generally completed within 10 to 14 days.
Typical installation detail drawings. For alternate detail drawings, including transition options, please contact your Maxxon Regional Representative.

**ACOUSTI-MAT 1/4 (REINFORCED)**

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Acousti-Mat® Tape or equivalent
- 3/4" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® 1/4
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**ACOUSTI-MAT 3/8 PREMIUM**

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Acousti-Mat® Tape or equivalent
- 1½" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® 3/8 Premium
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**ACOUSTI-MAT 3 HP Wall Isolation Detail**

- Penetrations such as toilet collars, electrical, plumbing, etc.

**Wall Isolation is installed around the perimeter of the entire room to receive Acousti-Mat 1/4, and around any floor penetrations such as toilet collars, electrical, plumbing, etc.

**Members of the Acousti-Mat® System will provide room acoustical performance comparable to walls built with CLT, wood or concrete subfloor.**

**Steel Deck**

- Wood or concrete subfloor
- Acoustical Sealant
- Acousti-Mat® Tape or equivalent
- 3/4" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer or Maxxon® Acrylic
- Corrugated Steel Deck
- Maxxon Underlayment filled in flutes

*Gypsum Wall Board must be elevated above Maxxon Underlayment.

**ACOUSTI-MAT 1/8**

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Acousti-Mat® Tape or equivalent
- Maxxon® Underlayment
- Acousti-Mat® 1/8
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**ACOUSTI-MAT 3/4**

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Acousti-Mat® Tape or equivalent
- 1" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® 3/4
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**ACOUSTI-MAT 1/4 PREMIUM**

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Acousti-Mat® Tape or equivalent
- 1½" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® 1/4 Premium
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**ACOUSTI-MAT 1/4**

- Gypsum Board
- Optional, Flexible latex or silicone caulk
- Acousti-Mat® Tape or equivalent
- 1½" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® 1/4
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**ACOUSTI-MAT II HP Wall Isolation Detail**

- Penetrations such as toilet collars, electrical, plumbing, etc.

**Wall Isolation is installed around the perimeter of the entire room to receive Acousti-Mat 1/4 Premium, and around any floor penetrations such as toilet collars, electrical, plumbing, etc.

**ACOUSTI-MAT II on Corrugated Steel Deck**

- Wood or concrete subfloor
- Acoustical Sealant
- Acousti-Mat® Tape or equivalent
- 3/4" Approved Maxxon® Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® 1/4
- Wood or concrete subfloor

*Gypsum Wall Board must be elevated above Maxxon Underlayment.

**ACOUSTI-MAT SBR**

- Wood or concrete subfloor
- Acoustical Sealant
- Acousti-Mat® Tape or equivalent
- SBR Underlayment
- Maxxon® Reinforcement
- Maxxon® Floor Primer
- Acousti-Mat® SBR
- Wood or concrete subfloor

*Gypsum Wall Board must be installed within 1/2 inch of subfloor.

**Acousti-Mat® Reinforcement**

- Wood or concrete subfloor
Maxxon Corporation offers six AIA Approved continuing education opportunities. Each one-hour presentation is given at your office and earns participants 1 LU credit. Now there are two ways to earn continuing education credits with Maxxon - in person or online! For in person presentations, Maxxon will treat you to lunch! Learn more about the presentations below, and then select the one that best suits your office. Not sure which to select? A Maxxon representative will be happy to help you decide!

**NEW MODERN ACOUSTICAL SOLUTIONS AND PERFORMANCE VARIATIONS BY ASSEMBLY TYPE AND APPLICATION**

In this course you will review the different types of sound control mat solutions available on the market today. You will learn about installation differences, performance variations and how these factors impact the marketability and budget of a project.

**NEW FIRE AND ACOUSTICAL CONSIDERATIONS IN CROSS LAMINATED TIMBER CONSTRUCTION**

This course will discuss the various types of Mass Timber Construction, focusing on the Fire and Acoustical Considerations associated with Cross Laminated Timber Construction. Topics will include the differences and benefits of each type of mass timber assemblies, the reasons behind two hour fire ratings and the role gypsum underlayments play in fire resistance, planned changes to the International Building Code, and the pitfalls and solutions to sound control in mass timber assemblies.

**BUILDING SMART — A NEW APPROACH FOR MID- & HIGH-RISE CONSTRUCTION**

High-rise concrete construction starts are on the rise across the country. These projects are going up fast, some at the rate of one floor every two days. This rigorous construction schedule has traditionally put a tremendous amount of pressure on concrete contractors due to the necessity of meeting specific floor flatness criteria. Plus, floor flatness measurements taken immediately after installation may change as the floor cures, resulting in costly and time-consuming floor prep before the installation of floor goods. Fortunately, a new method to achieving flat, “floor goods ready” floors is emerging. In this course, you will learn how this new approach is flat tracking mid- and high-rise construction, creating a super flat floor and protecting floor coverings from moisture related damage.

**SOUND CONTROL IN MULTISTORY CONSTRUCTION**

In this course you’ll learn how to build a floor/ceiling assembly with sound control in mind. Topics include common terminology as it relates to acoustical construction, the International Building Code criteria for sound control, and the four key considerations in the design of a floor/ceiling assembly.

**SPECIFYING THE RIGHT PRODUCT FOR THE RIGHT APPLICATION**

Learn more about the benefits of underlayments and sound control mats, and how to select the right products for your project. Plus we’ll cover how these products help enhance the safety and marketability of a project.

**SURFACE APPLIED MOISTURE VAPOR BARRIERS NOW OFFERED ONLINE!**

Concrete slabs can be subjected to moisture vapor emissions from the ground and due to varying humidity conditions. In this presentation, participants will learn how to assess the potential need for a vapor barrier, the types of vapor barriers available, and how to test the moisture content of a concrete slab.

**THE FLOOR SPECIALISTS FROM MAXXON, THE FLOOR SPECIALISTS**

High-rise concrete construction starts are on the rise across the country. These