Architectural Metal Wall & Roof Systems
Product Portfolio
Innovative Single Element Building Envelope Solutions

Morin
A Kingspan Group Company
Morin specializes in roll forming of architectural heavier gauge single skin metal wall and roof systems. With over 100 profiles and three manufacturing locations, Morin is well positioned to produce for any size project.
# Contents

## 01

**Morin Architectural Wall Range**

- Matrix Series®  | 10
- Pulse Series®  | 12
- Integrity Series | 14
- Concealed Fastener Series | 16
- Exposed Fastener Series | 18
- MorZip® Series | 20

## 02

**Morin Architectural Roof Range**

- MorZip® Series | 20
- Symmetry Series | 22
- SLR Series | 24
- SWL Series | 26

## 03

**Design Options**

- Perforations | 28
- KarrierPanel™ | 30
- Color Options | 32
Your Global Partner

Morin is part of the Kingspan Insulated Panels division of the Kingspan Group plc. Founded in Kingscourt Co. Cavan Ireland in 1965, Kingspan is a global leader in the design, development and delivery of advanced building envelope products and solutions.

13 regional R&D centers

100+ manufacturing sites worldwide

4.2 billion USD revenue in 2017

13,000+ employees worldwide
Kingspan Insulated Panels are pioneering better technologies and methods of building for a low carbon world. Improving building performance, construction methods and ultimately people’s lives – that’s what drives our people across the world. Energy efficiency is at the heart of Kingspan’s innovation, from making the industry’s most thermally efficient core for our insulated panels, to producing the most airtight interfaces, to providing technical and field-service support on how to build optimally.

Kingspan offers aesthetic flexibility with a vast range of insulated panel profiles supported by state-of-the-art specialty fabrications. Our commercial insulated metal roof and wall panel systems combine design flexibility, efficiency and performance to create the ultimate building envelope solution.

Together with the learnings from our ongoing research into better building design, these enhanced Kingspan envelopes will take our built environment to the next era of efficiency and wellbeing.
Morin

Morin is the industry’s most versatile manufacturer of single element metal wall and roof panels. With our three production facilities located in Bristol, CT, Fontana, CA and Deland, FL, we have a combined production capacity of over 50 million square feet.
The Morin story goes well beyond the panels. We thrive in helping customers bring their most challenging design ideas to life. Beyond panels we offer a complete suite of metal finishes including perforations, corners, coordinated louvers and fasteners and custom extrusions for a complete look.

**Much More Than Panels**

We offer over 100 wall and roof panel options with a wide range of panels with unique profiles including over 30 integrated panels. Our Matrix, Integrity and Pulse series of panels all have interlocking joinery and can be easily integrated.

Morin Systems provide for a complete, finished, custom fabricated look. Rounded or miter corners, extrusions, foam backers and custom cut components will make for a more professional looking, longer lasting job.

We know we are just one part of many in a project, we want to make our part look its best and have all the tools available from design to installation for you.

**Sustainability**

Morin recognizes the significance of climate change to global society and the importance of addressing the built environment as part of efforts to lower greenhouse gas emissions. We are committed to providing solutions for our customers and addressing our own facilities.

Our products will assist in meeting the requirements that are specified in the U.S. Green Building Council’s Leadership in Energy and Environmental Design (LEED®) Green Building Rating System.

**Technical Support**

Morin has technical support available from start to finish. We are there to help you through every phase of building from technical CAD support to on-site installation.

We have on-site technical staff to help with drawings, design, cost-effective construction application and technical designs for complicated projects. We also offer on-site installation guidance and support from our expertly trained knowledgeable team.

Our nationwide sales network and in-house technical service teams provide innovative solutions for today’s progressive architecture. Visit www.morincorp.com for access to profiles, specifications, AutoCAD details, load span charts and technical manuals.

Morin’s knowledgeable sales staff provides AIA/CES approved seminars on single element architectural metal wall and roof systems.
“From concept to completion, Morin is there to partner with you.”
Matrix Wall Series

Inspired by technology, Morin Matrix Series® is the next evolution in an integrated concealed fastener rainscreen wall panel system.
With ten unique panel profiles, as well as complimentary extruded aluminum trims and MiterSeam corners, the designer has all the tools necessary to create the next award winning design.

- Concealed clip and fastener design
- Can be installed horizontally or vertically
- Weather resistant or rainscreen rear ventilated application
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking available

Panel Depth:
1 1/2” (38mm)

Cover Width:
12” (305mm)

Lengths:
5’ (1.52m) to 30’ (9.14m) standard. Shorter and longer lengths available

Galvalume / Zincalume Painted Steel Options:
18 GA* (1.19mm) / 20 GA (1.9m) / 22 GA (.76mm) / 24 GA* (.60mm)

Aluminum Options:
.032 GA (.80mm) / .040 GA (1mm) / .050 GA (1.27mm)

Stainless Steel Options:
22 GA (.76mm) / 24 GA (.60mm)

Zinc Options:
20 GA (1.0mm) / 22 GA (.91mm)

Natural Copper Options:
20 oz. / 16 oz.

*Only available on certain profiles.
Pulse Wall Series

The Morin Pulse Series® adds an exciting angular look to the integrated concealed fastener rain screen wall panel system.
With five panel profiles as well as complementary extruded aluminum trims and miter seam corners, the angular integrated Pulse Wall Series adds a nice dimension to help facilitate the next design.

- Ideal for new or retrofit projects
- Five unique angular profiles
- Concealed clip / fastener design
- Weather resistant or rain screen rear ventilated application
- Smooth surface standard; stucco embossed optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking
- Horizontal or vertical

<table>
<thead>
<tr>
<th>Panel Depth:</th>
<th>1 1/2” (38mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover Width:</td>
<td>12” (305mm)</td>
</tr>
<tr>
<td>Lengths:</td>
<td>5’ (1.52m) to 30’ (9.14m) standard. Shorter and longer lengths available</td>
</tr>
<tr>
<td>Galvalume / Zincalume Painted Steel Options:</td>
<td>18 GA (1.19mm) / 20 GA (1.91mm) / 22 GA (0.70mm) / 24 GA (0.60mm)</td>
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<tr>
<td>Aluminum Options:</td>
<td>.050 GA (1.27mm) / .040 GA (1mm)</td>
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<td>Stainless Steel Options:</td>
<td>22 GA (0.75mm) / 24 GA (0.60mm)</td>
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<td>Zinc Options:</td>
<td>20 GA (1.0mm) / 22 GA (0.91mm)</td>
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<tr>
<td>Natural Copper Options:</td>
<td>20 oz. / 16 oz.</td>
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<tr>
<td>Application:</td>
<td>Horizontal or vertical</td>
</tr>
</tbody>
</table>

**Clip detail**

**Easy Integration**
Common joint allows multiple panel integration with Integrity Series and Matrix Series®
Integrity Wall Series

Integrity Series is an integrated, concealed fastener, rainscreen, wall panel system featuring fifteen unique profiles.
The asymmetrical shape of the X-12 panel was created by the well known Japanese architect Fumihiko Maki in the early 1990’s. Since then it has become one of the most popular profiles selected by architects for use on buildings of all types.

- Concealed clip and fastener design
- Weather resistant or rainscreen rear ventilated application
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking available

**Panel Depth:**

1/4” (22mm)

**Cover Width:**

12” (305mm) or 16” (406mm)

**Lengths:**

5’ (1.52m) to 30’ (9.14m) standard.
Shorter and longer lengths available

**Galvalume / Zincalume Painted Steel Options:**

18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (.76mm) / 24 GA (.60mm)

**Aluminum Options:**

.050 GA (1.27mm) / .040 GA (1mm)

**Stainless Steel Options:**

20 GA (1.9mm) / 22 GA (.76mm) / 24 GA (.60mm)

**Zinc Options:**

18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (1.9mm)

**Natural Copper Options:**

20 oz. / 16 oz.

**Application:**

Horizontal or vertical

**Clip detail**

Easy Integration

Common joint allows multiple panel integration with Pulse Series® and Matrix Series®
Concealed Fastener Wall Series

Concealed fastener panels are available in ten distinctive designs – choose from flat, reveal, striated or chevron profiles.
With a common side joint the designer can mix and match panel profiles throughout the facade creating the exact desired effect. Panels may be installed vertically, horizontally, or in combination.

- Concealed fastener design
- Weather resistant or rainscreen rear ventilated application
- Smooth surface standard, stucco embossed perforated texture optional
- All PVDF painted finishes available
- Optional factory caulking available

### Panel Depth:
- 1 1/2" (38mm)

### Cover Width:
- 12" (305mm) standard, 16" (406mm) and 18" (457mm) optional on F profiles only.

### Lengths:
- 5’ (1.52m) to 30’ (9.14m) standard. Shorter and longer lengths available

### Galvalume / Zincalume Painted Steel Options:
- 18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (0.91mm) / 24 GA (0.76mm)

### Aluminum Options:
- .050 GA (1.27mm) / .040 GA (1mm)

### Stainless Steel Options:
- 20 GA (91mm) / 22 GA (76mm) / 24 GA (60mm)

### Zinc Options:
- 18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (91mm)

### Natural Copper Options:
- 20 oz. / 16 oz.

### Application:
- Horizontal or vertical

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<table>
<thead>
<tr>
<th>Product</th>
<th>Cover Width</th>
<th>Panel Depth</th>
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<tbody>
<tr>
<td>Flat</td>
<td>12&quot;, 16&quot;, 18&quot; nominal</td>
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</tr>
<tr>
<td>F-12</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
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<td>F-16</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
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<tr>
<td>F-18</td>
<td>12&quot; nominal</td>
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<td>A-12</td>
<td>6&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>AA-12</td>
<td>6&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>N-12</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>T-12</td>
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<tr>
<td>TT-12</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>Striated</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>F-12-S</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>F-12-SW</td>
<td>12&quot; nominal</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>Chevron</td>
<td>6&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>W-12</td>
<td>6&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>Z-12</td>
<td>6&quot;</td>
<td>1 1/2&quot;</td>
</tr>
</tbody>
</table>
Exposed Fastener Wall Series

Exposed fastener wall and roof panels are used on every type of building today from industrial manufacturing plants to Class A office buildings.

Whether it’s the traditional wave C profile or the bold O-24 profile, the many interesting designs available within this product line are numerous:

- Seventeen unique profiles
- Overlapping side joint design
- Weather resistant or rainscreen rear ventilated application
- May be insulated to meet required thermal values
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- Perforated options available
- All PVDF painted finishes available

Panel Depth: 1/2” (13mm) to 4” (102mm)

Cover Width: 24” (610mm) to 40” (1016mm)

Lengths: 5’ (1.52m) to 30’ (9.14m) standard. Shorter and longer lengths available

Galvalume / Zincalume Painted Steel Options: 18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (0.76mm) / 24 GA (0.60mm)

Aluminum Options: .050 GA (1.27mm) / .040 GA (1mm)

Stainless Steel Options: 20 GA (0.91mm) / 22 GA (0.76mm) / 24 GA (.60mm)

Zinc Options: 18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (0.91mm)

Natural Copper Options: 20 oz. / 16 oz.

Application: Horizontal or vertical
MorZip® Roof and Wall Series

MorZip® Naturals for roof and wall are available in stainless steel, zinc, copper and aluminum, will last the lifetime of the building.
Dual purpose wall and roof system offers limitless design flexibility. No longer does the designer have to select a separate wall and roofing panel.

MorZip® does it all, providing seamless transition from wall to roof and back again. This panel profile is our most versatile structural standing seam roof system used on high profile projects.

Convex Lay-down Curve

Convex Mechanical Curve

Concave Mechanical Curve

<table>
<thead>
<tr>
<th>Thickness (in)</th>
<th>Min. radius (ft)</th>
<th>Gauge (ga)</th>
<th>Min. Radius (ft)</th>
<th>Thickness (mm)</th>
<th>Min. radius (ft)</th>
<th>Weight / sq.ft (oz)</th>
<th>Min. radius (ft)</th>
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<tbody>
<tr>
<td>Aluminum</td>
<td>Stainless Steel</td>
<td>Zinc</td>
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<tr>
<td>.032</td>
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<td>Copper</td>
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<td></td>
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<tr>
<td>.032</td>
<td>.24</td>
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<td>0.80</td>
<td>30</td>
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<td>30</td>
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<td>.040</td>
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<td>.050</td>
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<td>1.25</td>
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<td>30</td>
<td>32</td>
<td></td>
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<tr>
<td>Aluminum</td>
<td>Stainless Steel</td>
<td>Zinc</td>
<td>Copper</td>
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<td>.032</td>
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<td>.040</td>
<td>.22</td>
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<td>1.25</td>
<td>40</td>
<td>32</td>
<td>30</td>
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</table>
Symmetry
Roof Series

Seeking balance, strength and harmony for the consultant / design communities? Or maybe you are looking for a solid versatile easy to replace panel that is quick to install, roll forms on-site, lengths to 300'.
Get all the benefits with Symmetry Roof Series.

- Unlimited thermal expansion or contraction
- Weather resistant seam from eave to ridge
- Significant wind uplift capability
- Onsite roll-forming in lengths up to 300’
- Symmetrical panels install side / side
- Down to ½:12 minimum roof slope
- Panel replacement is easier and less expensive with a symmetrical panel
- Symmetrical panels are designed to allow for unlimited thermal expansion and contraction
- The panel clip is fixed, and by design the panel can move up and down the slope while engaging with the panel clip
- Symmetrical roofs are ideal for roofs with complex geometry

Symmetry’s multiple panel depths and widths make for a versatile system with over 40 different variations.

Testing
Meet the demands of stringent codes with a high performance roofing system.

- ASTM E1592 Uplift Test
- UL 580, UL 1897 Uplift Test
- UL Class A Fire Rating
- FM 4471 over open framing Uplift Test
- FM 4471 over metal deck Uplift Test
- FM Class 1 – SH Hail Resistance Test
- ASTM E1680 Air Infiltration Test
- ASTM E1646 Water Infiltration Test
- ASTM E2140 Static Water Test

Images are representative and are just a sample of our 40 options.
SLR Roof Series

This profile is one of our oldest and most used structural roofing panels, designed for use with a variety of slopes and can wrap from roof to wall for dynamic impact.
The SLR Profile is a seamed standing seam panel that can be applied to roof or wall and are available in a variety of profiles, gauges and widths.

It is available in a variety of widths, rib, striations, and embossing options with a tight seam joinery making it strong and durable and ideal for environmentally challenging areas.

The SLR panel also works well in curved applications, metal walls or a low slope roof. This flexible panel can offer solutions to many project needs.

- All PVDF finishes available
- Factory caulking is standard

**Panel Depth:**
1 1/4” (44.45mm)

**Cover Width:**
12” (305mm) – 18” (457mm)

**Lengths:**
5’ (1.52m) to 30’ (9.14m) standard. Shorter and longer lengths available

**Galvalume / Zincalume Painted Steel Options:**
22 GA (.76mm) / 24 GA (.60mm)

**Aluminum Options:**
.040 GA (1mm) / .032 GA (0.813mm)

**Special Notes:**
Copper and zinc options available dependent on the profile / gauge.
Jobsite roll forming is available.

Images are representative and are just a sample of a large variety of options.
SWL Roof Series

Architectural standing seam panels are available in a variety of profiles and widths. SWL is traditionally a non-structural roofing panel, designed for use with higher slopes.
This panel is geared for lighter gauge and has the advantages of being a quick install, and less labor due to the simple snap lock fastener system with no batten or seaming.

The SWL profile comes in a variety of widths, rib striations and embossing options. The snap-lock joinery makes assembly easy and an optional batten can provide for a clean finished look. Concealed clip and fastener design are ideal for new or retrofit projects. Smooth surface, stucco embossed, striated and pencil beads are available. Consult for further information.

- All PVDF finishes available
- Factory caulking is standard

**Panel Depth:**
1 1/4" (44.45mm)

**Cover Width:**
12" (305mm) – 18" (457mm)

**Lengths:**
5’ (1.52m) to 30’ (9.14m) standard. Shorter and longer lengths available

**Galvalume / Zincalume Painted Steel Options:**
22 GA (.76mm) / 24 GA (.60mm)

**Aluminum Options:**
.040 GA (1mm) / .032 GA (0.813mm)

**Special Notes:**
Copper and Zinc options available dependent on the profile / gauge. Jobsite roll forming is available.

Images are representative and are just a sample of a large variety of options.
Perforations

We are constantly seeing new and creative uses for Perforations. At Morin, we focus on more functional creative applications of standard processes, spot hole patterns and very ingenious uses.

We produce a wide variety of hole options, and patterns, spot patterns and custom repeat patterns that work with roll or break forming panels for specific applications.

**Perforation uses**
- Sun screen shade
- Security screening
- Wind reduction
- Noise reduction
- Airflow heating / cool
- Visual openness

**Perforation suggested gauges**
- Aluminum – .040 – .050
- Stainless steel – 24 and 22 gauge
- Cor-Ten – 22 and 20 gauge
- Zinc – 1.0 mm, 1.2 mm
- Galvalume painted – 24 and 22 gauge – interior
All profiles are available with these standard patterns

- 1/8” hole, 1/4” spacing, 40% open area
- 3/8” hole, 3/16” spacing, 10% open area
- 1/4” hole, 1/8” spacing, 23% open area
- 1/4” hole, 1/4” spacing, 23% open area

Contact us to review hole direction in relation to perforating process, and panel orientation. Custom patterns and spot perforations available!
KarrierPanel™

KarrierPanel is a cost effective universal barrier wall alternative solution to traditional multi-component wall systems.
KarrierPanel utilizes Kingspan’s fully engineered KarrierRail to securely and safely transmit loads from a wide range of façade options to the structural supports behind the insulated panel.

- Allows for faster building close-in and dry-in for reduced building costs
- Eliminates thermal-bridging energy losses associated with standard stud / cavity insulation construction
- Reduces delays in construction experienced with scheduling multiple trades
- Brick Ties can also be integrated to combine the look of masonry with the benefits of an insulated metal panel

<table>
<thead>
<tr>
<th>Panel Depth:</th>
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</thead>
<tbody>
<tr>
<td>2&quot;, 2 ½&quot;, 3&quot;, 4&quot;, 5&quot;, 6&quot;</td>
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<table>
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<tr>
<th>Cover Width:</th>
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<tr>
<td>24&quot;, 30&quot;, 36&quot;, 42&quot; (Standard)</td>
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<table>
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<th>Lengths:</th>
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<td>6’ (1.82m) to 52’ (9.14m)</td>
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<table>
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<tr>
<th>Panel Joint:</th>
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<tr>
<td>Double tongue and groove interlocking rainscreen joint</td>
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<table>
<thead>
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<th>Reveal Choice:</th>
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<tr>
<th>Exterior and Interior Face:</th>
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<tbody>
<tr>
<td>26, 24, or 22 GA Shadowline profile embossed Galvalume pre-painted steel</td>
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<table>
<thead>
<tr>
<th>Application:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal or vertical</td>
</tr>
</tbody>
</table>
Color Options

Our range of color options provide you with the most durable surfaces and longest warranties, with custom color matching available there are unlimited design options available.
Standard Colors

Fluropon® PVDF – Kynar500®

Formulated with 70% Kynar 500® proprietary resin, Fluropon® is a premium fluoropolymer coating. Factory applied and baked on, it provides excellent adhesion and flexibility properties with aluminum, HDG steel or Galvalume® components.
**Premium Colors – Mica**

**Fluropon® Classic II PVDF**

2-Coat Fluropon Classic II PVDF is a premium fluoropolymer coating containing 70% Kyner 500® proprietary resin that achieves a pearlescent appearance. This two coat system is a cost-effective alternative to metallic systems requiring clear coat.

![Color samples](Image)

- **Silversmith**
  - SR: 0.53 E: 0.79 SRI: 59

- **Champagne Bronze**
  - SR: 0.44 E: 0.78 SRI: 46

- **Champagne Pearl**
  - SR: 0.48 E: 0.81 SRI: 53

- **Weathered Zinc**
  - SR: 0.53 E: 0.84 SRI: 53

- **Copper Penny**
  - SR: 0.48 E: 0.84 SRI: 54

**Premium Colors – Metallic**

**Fluropon® Classic PVDF**

3-Coat Fluropon Classic PVDF is a premium fluoropolymer coating containing 70% Kynar 500® proprietary resin and a special metallic effect. Due to its outstanding color retention and resistance to ultraviolet radiation, it is the preferred choice among architects and metal building manufactures.

![Color samples](Image)

- **Medium Gray**
  - SR: 0.56 E: 0.85 SRI: 58

- **Seafoam Green**
  - SR: 0.49 E: 0.87 SRI: 56

- **Champagne Gold**
  - SR: 0.51 E: 0.85 SRI: 58

- **Bright Silver**
  - SR: 0.57 E: 0.81 SRI: 65

**Custom Color Matching Available**

Morin makes it easy to add protection and visual distinction to your next project. Our state-of-the-art color and paint facility can achieve virtually any tint, shade or finish to your specifications, quickly and accurately. To get started, contact our experienced sales representatives today for details.

Colors shown here are for preliminary selection only. Contact Morin for color chart and/or physical painted metal samples before final selection. Because of the differences in the paint formulation and application, coil coated metal panels in mica and metallic colors will differ slightly in appearance from spray applied aluminum extrusions.