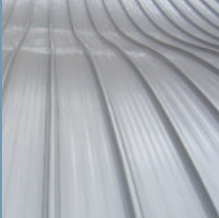


Garland ■ Standing Seam Solutions



Flexible Design. Watertight Performance.



TRANSFORMING INNOVATIVE DESIGNS INTO ROOFTOP REALITIES



SECURITY SURROUNDS YOU... SEAMLESSLY

<i>Performance Attributes</i>	<i>Cool Colors</i>	<i>Wind Resistance</i>	<i>Minimum Slope</i>	<i>Seam Height</i>	<i>FM-4471²</i>	<i>UL[®] 580 Class 90³</i>	<i>UL[®] 790 Class A⁴</i>
R-Mer Span Structural Standing Seam	Yes	Excellent	1/4:12	2 3/8"	Yes	Yes	Yes
R-Mer Loc ¹ Structural Standing Seam	Yes	Very Good	1-1/2:12	1 3/4"	No	Yes	Yes
R-Mer Seam Architectural Standing Seam	Yes	Good	3:12	1"	No	Yes	Yes
R-Mer Clad Architectural Standing Seam	Yes	Good	3:12	1"	No	Yes	Yes
R-Mer Wall Pan Concealed-Clip Panels	Yes	Very Good	n/a	n/a	n/a	n/a	n/a
R-Mer Wall Through-Fastened Panels	Yes	Very Good	n/a	n/a	n/a	n/a	n/a

¹ R-Mer Loc LX panels also available, featuring a 1 1/2" seam height
² Comprehensive (flame spread, wind uplift, foot traffic, hail)
³ Wind uplift classification
⁴ Fire rating
⁵ ASTM E 1646 water penetration, ASTM E 1680 air infiltration
⁶ Uniform static air pressure

The Garland family of R-Mer® standing seam solutions combines watertight integrity, aesthetic versatility, and intelligent sustainability to meet the widest possible range of functional and aesthetic requirements. Whether your project calls for an unusually curved design, a dramatic bare metal finish, or a visually integrated palette of designer colors, the R-Mer standing seam solutions offer an integrated suite of incredibly strong metal systems and accessories to suit your needs.

But the most valuable differentiating feature of every R-Mer standing seam solution is a difference less visible to the eye: *Garland services*. Our comprehensive selection of services helps building owners bridge the divide between the design professional's desire for optimum versatility and facility management's demands for watertight performance. The personal accountability and expertise of our field representatives has helped Garland achieve the lowest claims record in the standing seam roofing industry.

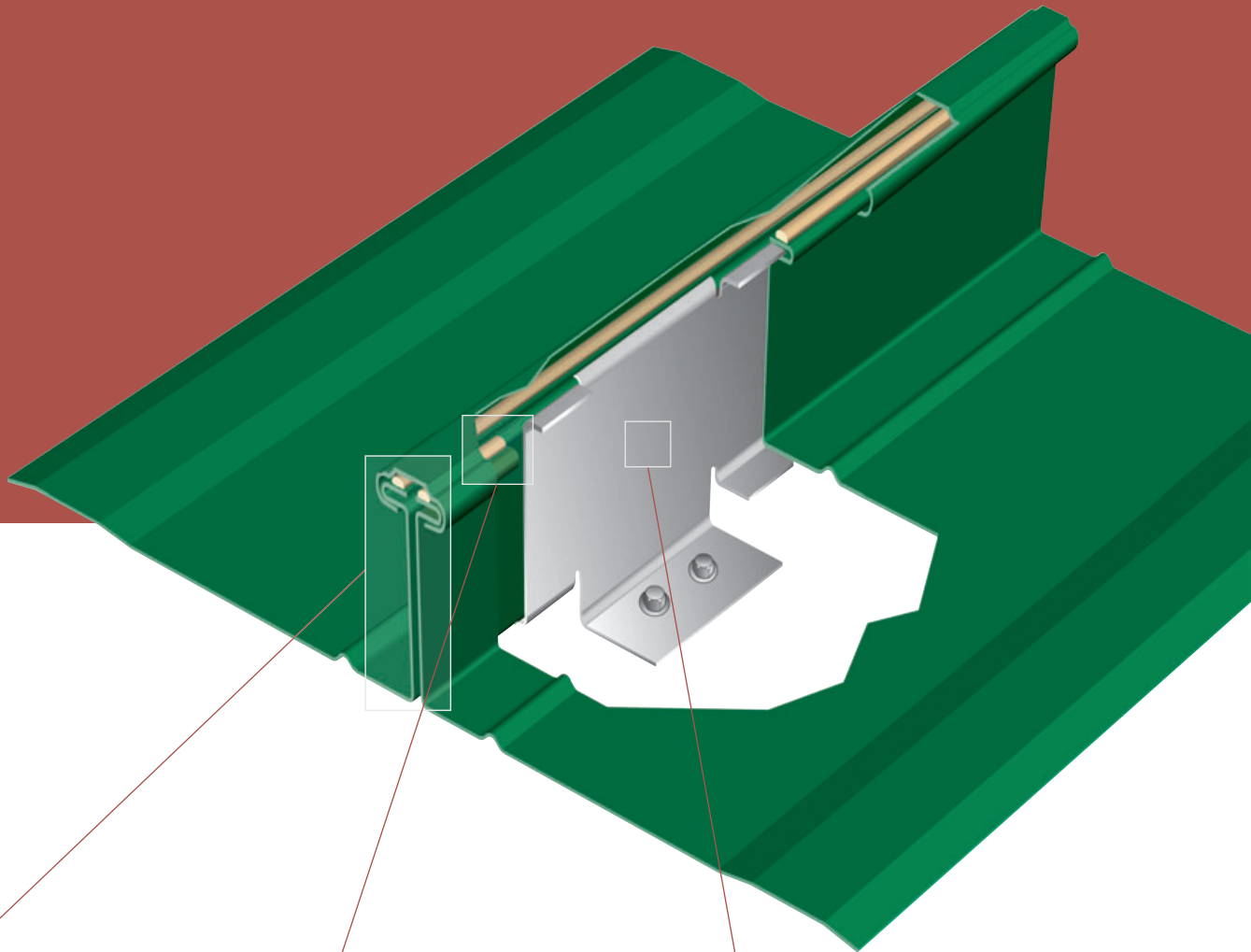
Your locally based Garland representative offers comprehensive support for your building envelope, including:

- Professional engineering services, coordinated by Garland, to take you from planning and design through code-compliant rooftop performance, with comprehensive shop drawings that ensure quality installation
- Factory-quality fabrication and curving abilities, available on site from our mobile manufacturing facility
- Comprehensive roof asset management support to simplify budgeting, life-cycle cost evaluations, and warranty tracking — whether you're managing a single facility or dozens of facilities around the world

ASTM E 1646 ASTM E 1680 ⁵	ASTM E 1592 ⁶	Miami/Dade Certified ⁷	TAS 125 ⁸	TAS 100 ⁹	ASTM E 330 ¹⁰	ASTM E 331 ¹¹	ASTM E 283 ¹²	ASTM E 2140
Yes	Yes	Yes	Yes	Yes	n/a	Yes	Yes	Yes
Yes	Yes	No	No	No	n/a	Yes	Yes	No
No	No	No	No	No	n/a	Yes	Yes	No
No	No	No	No	No	n/a	n/a	n/a	No
n/a	n/a	No	n/a	n/a	Yes	Yes	Yes	n/a
n/a	n/a	No	n/a	n/a	No	No	No	n/a

⁷ Special listings and testing required by Dade and Broward Counties to evaluate resistance to hurricane force winds
⁸ Florida building code similar to the UL® 580 for wind uplift classification, but this rating requires the test be repeated multiple times
⁹ Dynamic air and water test
¹⁰ Structural performance
¹¹ Water penetration
¹² Air infiltration

A DIFFERENCE YOU CAN SEE

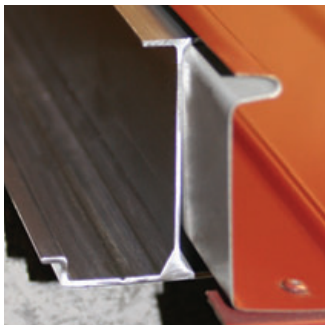
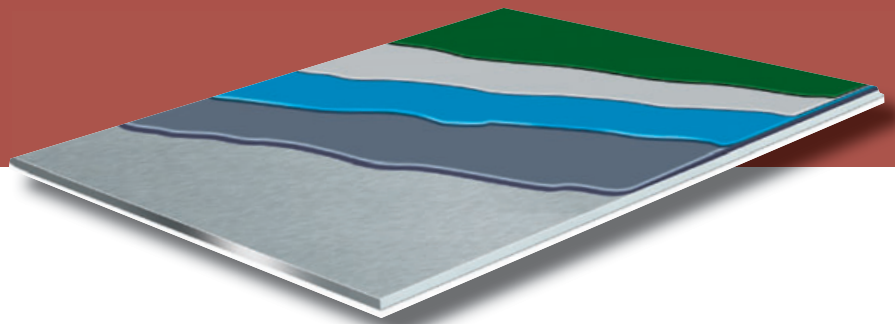


□ The high-strength **2 3/8-inch T-style seam**, combined with these sturdy 16-gauge clips, enable faster and easier installation, allowing installers to cover a longer distance with fewer clips.

□ This **isolated sealant design** protects the sealant from abrasion and shear forces, throughout the life of the facility, allowing the structure to retain the highest integrity against air and water infiltration. This detail safeguards against wind-driven rain and provides our roof and wall panels with up to 60% greater air-leakage resistance in comparison with conventional standing seam panels.

□ An **integrated one-piece clip** design provides unlimited thermal movement, eliminating buckling and panel distortion. This is true even for systems located in environments that experience extreme temperature ranges, buildings with darker colors that tend to promote greater movement, and structures with longer panel runs.

The protection against water infiltration provided by our flagship R-Mer Span structural standing seam metal roofing system remains unsurpassed. This thoroughly tested and field-proven solution provides the peace of mind of knowing that you have the highest quality materials, backed by our industry's most comprehensive support, protecting your infrastructural investments.



- The **continuous clip design** of the unique I-Span anchor provides optimized performance in the toughest negative pressure environments.

- **Kynar® 500 or Hylar® 5000 PVF₂ fluorocarbon finish coat** — offering aesthetic versatility with a multitude of colors, including many ENERGY STAR®¹ qualified reflective finishes, to help you achieve LEED®² points or other energy-code compliance, such as California Title 24, while further enhancing the sustainability characteristics of your buildings
- **Primer** — further extending paint system life
- **Pretreatment** — corrosion-resistant chemical pretreatment coat
- **G-90 Galvanized Anticorrosion coating**
- **Grade 40 steel panels** — 43% stronger than industry standard commercial grade steel used for roll forming

¹ The ENERGY STAR Program represents a voluntary partnership between businesses and organizations and the federal government to promote energy efficiency and environmental activities.

² The Leadership in Energy and Environmental Design (LEED) Green Building Rating System is a voluntary, consensus-building national standard that was initiated by the U.S. Green Building Council (USGBC) for developing high-performance sustainable buildings.

AESTHETIC VERSATILITY



- Aluminum and steel systems are available in **28 colors** of Kynar 500 or Hylar 5000 PVF₂ fluorocarbon paint finish, and in an unlimited palette of special order custom colors. **Natural material selections** include copper, stainless steel, bare and anodized aluminum, zinc, bronze, titanium, and magnesium.



- No one offers a greater variety of **curving options**, including s-curves, barrel curves, and curves to radii as tight as four feet in aluminum or six feet in steel — enabling architects to realize the most imaginative designs.

Watertight integrity and aesthetic versatility are not mutually exclusive. The physical appearance of your facilities is important for making first impressions, and lasting ones. Aesthetics play a significant role in a company's ability to attract and maintain quality relationships with its customers, its suppliers, and its family of employees.

With the R-Mer family of standing seam solutions, your aesthetic possibilities are unique and virtually limitless, enabling your buildings to reflect the mission and vision of your organization. Our integrated family of metal solutions for the total building envelope will help you visually convey who you are and what you do, without ever compromising your ability to deliver on that promise.

Before



Rendered

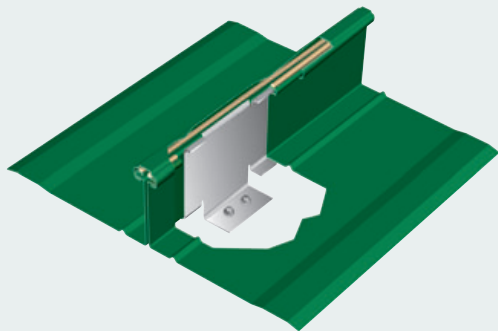


After



- Metal Panel Rendering services**, using computer-generated digital imaging, help you visualize the way a completed project will appear before construction begins.

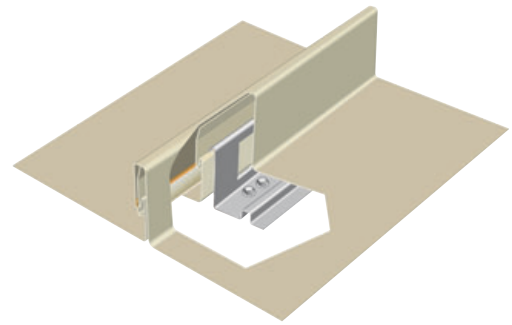
FUNCTIONAL DIVERSITY



□ R-Mer Span Structural Standing Seam Roof System

Our **flagship structural metal solution** is designed for retrofit or new construction applications, with slopes down to one-quarter inch per foot. This structural panel may be installed over open framing without the need for a conventional structural deck, and is ideal for projects requiring exceptional durability and aesthetic versatility:

- Symmetrical panel for easy installation
- Spans up to seven feet
- $\frac{3}{8}$ -inch clearance between panel and deck to minimize condensation, allowing air movement for a “healthy” building
- Mechanical curving and reverse curving to form panels to the tightest radii available
- Specialty tapering to create design opportunities without sacrificing panel integrity
- Mechanical finishes to minimize oil canning
- 16-gauge one-piece clip

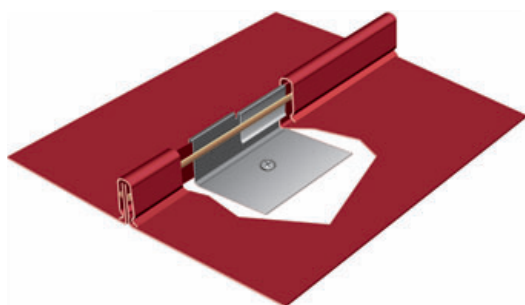


□ R-Mer Loc Structural Standing Seam Roof Systems

This **structural solution** may be installed over open framing without the need for a structural deck over a slope of three inches per foot. It is ideal for reroofing, mansards, and new construction applications requiring wind-uplift resistance, or for architectural applications:

- Asymmetrical, snap-in panel design
- $\frac{3}{8}$ -inch clearance between panel and deck to minimize condensation, allowing air movement for a “healthy” building (R-Mer Loc LX panels also available, with a $\frac{3}{16}$ -inch clearance)
- Exceptional wind-uplift rating
- Mechanical finishes to minimize oil canning
- 18-gauge one-piece clip
- Seam design separating the sealant from the clip

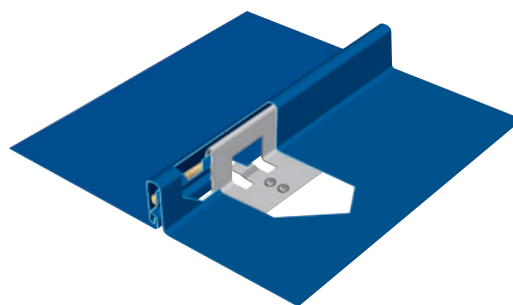
Whether your primary concern is reducing rooftop maintenance, improving watertight integrity, extending service life, or integrating a variety of surfaces into an aesthetically pleasing whole, the R-Mer family of standing seam solutions offers a metal solution to meet your needs. Each R-Mer standing seam system, component, and accessory can be mixed and matched to meet a full range of metal building envelope requirements. Your local Garland representative will help you determine the solutions best suited to your aesthetic, functional, budgetary, and scheduling needs.



□ **R-Mer Seam Architectural Standing Seam Roof Systems**

This **aesthetic-enhancing architectural panel** must be installed over a structural deck with an underlayment. It is ideal for design-driven applications, with a minimum slope of three inches per foot, requiring extensive curving or tapering capabilities or change-of-plane detailing:

- Symmetrical panel for easy installation
- Mechanical curving and reverse curving to form panels to the tightest radii available
- Specialty tapering to create design opportunities without sacrificing panel integrity
- Factory-installed hot-melt sealant in a separate seam cap for enhanced leak protection



□ **R-Mer Clad Architectural Standing Seam Roof Systems**

This **easy-to-install aesthetic upgrade** is an architectural panel that must be installed over a structural deck with an underlayment. It is ideal for improving the appearance of historic renovations with slopes of three inches per foot or higher:

- Asymmetrical panel design for a traditional standing seam appearance
- Integral panels without a separate snap-on cap

SEAMLESS INTEGRATION



R-MER WALL SYSTEMS



R-Mer Wall Pan Concealed-Clip Vertical Panels

These **concealed-clip vertical panels**, with a design to accommodate thermal movement, are ideal for use with new framing or over existing substrates. Mechanical finishes minimize oil canning. Recommended for soffits, parapet walls, and mansard applications demanding watertight performance.



R-Mer Wall Through-Fastened Vertical Panels

These **contractor-friendly through-fastened vertical panels** are ideal for use with new framing or over existing substrates, and are available in a full line of color choices, with color-matched fasteners, to coordinate with roof systems. Recommended for applications with demanding aesthetic requirements. Available in four distinct profiles as shown below.



R-Mer Line
(Concealed Fastener)



R-Mer Cor



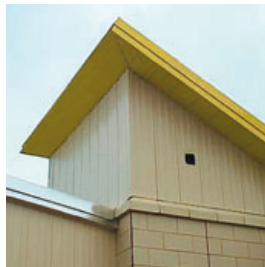
R-Mer Rib



R-Mer Wave

With the R-Mer standing seam family of metal solutions, you can successfully integrate facilities that serve a variety of functions without sacrificing visual appeal or reliability. Whether you require a single roof, or the complex integration of roofs, walls, and accessories, your metal system requirements will be filled with single-source accountability, backed by the financial stability of an industry leader that has been putting customer needs first since 1895.

R - M E R A C C E S S O R I E S



Soffits and Trim

Soffits are available in both vented and non-vented styles.



Snow Retention Systems

Snow Guards and **Snow Fences** help prevent damage to property from sliding snow and ice that can be especially problematic for slippery-surfaced metal roofs.



Photovoltaic Options

Both **crystalline cells** mounted with S-5!TM clamps and thin-film **self-adhesive solar panels** can be integrated with R-Mer standing seam roof systems for increased energy savings.

Over 100 Years of The Garland Company, Inc.

Founded by J.B. Wise in 1895, as a supplier of refining products, The Garland Company, Inc. has evolved from a local manufacturer and distributor of oils, greases, and paints to a worldwide leader in manufacturing high-performance roofing and building maintenance systems for the commercial and institutional markets. We've prevailed by remaining dedicated to our customers, continually developing innovative solutions to meet the ever-changing needs of a demanding market.

Today, the Garland network of employee-owner representatives is servicing customers around the world with the same vision, enterprise, and integrity demonstrated by J.B. Wise back in 1895. Dedicated sales representatives remain the driving force of our success by serving the customer with an unwavering commitment to quality and a single-minded responsiveness to individual requirements. Strategically located throughout the United States, Canada, and the United Kingdom, Garland representatives are ideally positioned to provide responsible, integrated facility management for single or multiple properties.

- High-performance modified roofing and built-up systems
- **Architectural and structural standing seam metal roof systems**
- Sustainable roofing solutions
- **Metal wall panels**
- Fluid-applied systems
- Rooftop maintenance and restoration products
- Computerized roof-asset management services
- Flooring repair and restoration solutions
- **Engineering services, including shop drawings**
- Design-build construction management
- Financing options
- Preventive-maintenance programs

For more information, visit us at: www.garlandco.com

The Garland Company, Inc.

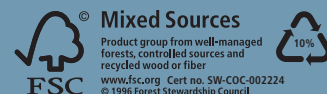
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R-Mer Span I-Span Anchor Clip is protected by U.S. 6,354,045 and Canada 2,334,538



Schedule
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