

Metal Sales

Metal Building Components, Sales & Service



800.406.7387
www.metalsales.us.com

ms metal sales
manufacturing corporation

THE METAL SALES DIFFERENCE



For more than 45 years, Metal Sales Manufacturing Corporation has earned a reputation as the premier provider of innovative metal building components and accessories. We've backed this reputation with the industry's largest professional sales & service team, supported by 20 branches located throughout the United States.

We offer a full line of exceptional quality metal roof and wall panels for agricultural, commercial, architectural, industrial, and residential projects of every shape and size – new construction or retrofit.

But our cutting-edge technology and durable designs are only part of the story. Architects, contractors and installers appreciate the impeccable service from our highly trained professional staff, ready to answer any question, or help devise custom solutions to your building and energy saving needs.

- Serving the architectural, commercial, residential, agricultural, and industrial markets for nearly half a century
- In-house engineering and design assistance available
- A wide selection of materials and finishes available, including MS Colorfast45®, PVDF (Kynar 500®), Weathering Steel, Marblique, Stainless Steel, and Copper
- Over 75 profiles available, with matching trim and accessories
- Over 100 ENERGY STAR and LEED compliant colors
- 20 convenient locations nationwide, including Alaska
- Ability to ship worldwide
- 45 year paint and 20 year weather tightness warranties available
- Panel testing including FM-4471, UL 580, ASTM E 1592, and approvals including Miami-Dade County and FBC 2007
- Curving capabilities available – (see pages 3, 6 and 14)

Metal Sales is dedicated to leading the metal building component industry, by setting new standards for operating efficiency, product design, active service management and lasting value. We strongly believe that by investing in our corporation, we will ensure the best products and services for our customers, high job satisfaction for our employees, and continued innovation and growth for our industry.

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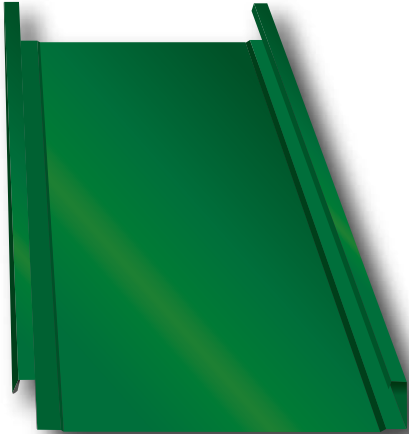
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Structural Standing Seam Products



Magna-Loc/Magna-Loc 180

- Architectural/structural flat pan standing seam roof panel
- 16" or 18" panel coverage, 2" rib height
- Gauges: 24 ga. standard, 22 ga. optional
- Minimum roof slope: 1/2:12
- Factory-applied side lap sealant
- Mechanically seamed side lap
- Concealed clip designed for thermal movement
- Accommodates 1/2" to 6" blanket insulation
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

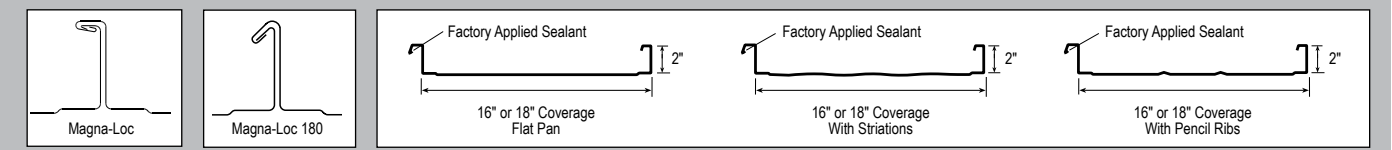


TESTING

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- Texas Windstorm Evaluation RC-197
- Factory Mutual Approved Class 1-90, 1-105, 1-165
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680/1646 Air and Water Tested
- Miami-Dade County Approved (NOA 08-1006.04, 08-1014.08)
- ASTM E 1592 Roof Uplift
- UL 580, Class 90 Wind Uplift, Construction #506, 506A and 506B
- 2007 FBC Approved

– Magna-Loc 10999.1, 11560.2, 11560.3
13870.1, 13870.2, 13870.3

– Magna-Loc 180 10999.2



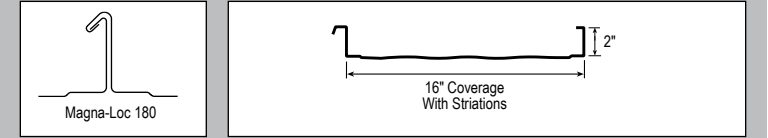
Curved Magna-Loc 180

- Architectural/structural standing seam roof panel
- 16" panel coverage, 2" rib height
- 24 ga. standard
- Minimum radius 20'-0"
- Field and factory curving available
- Pre-applied side lap sealant
- Mechanically seamed side lap
- Concealed clip designed for thermal movement
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

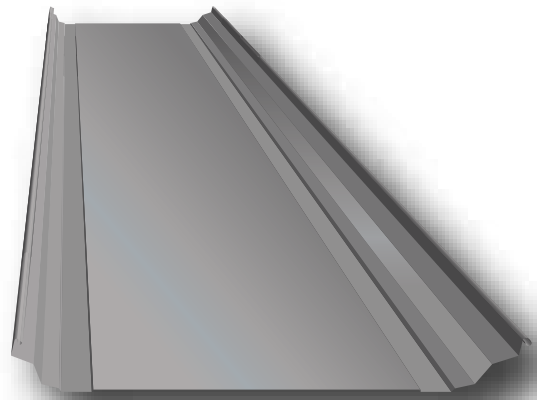


TESTING

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680/1646 Air and Water Tested
- ASTM E 1592 Roof Uplift
- UL 580, Class 90 Wind Uplift, Construction #576, 577 and 583



Structural Standing Seam Products



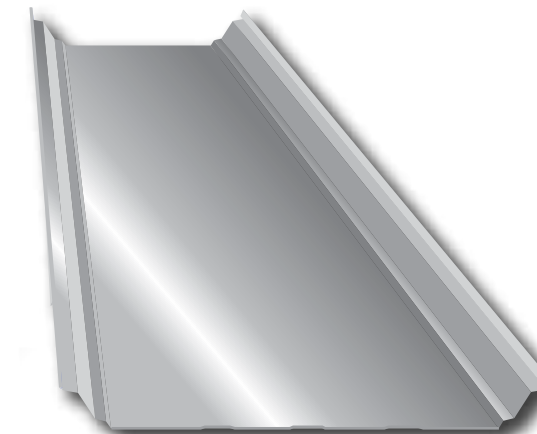
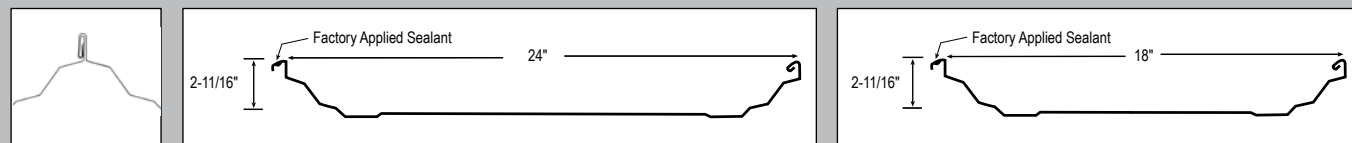
Seam-Loc 24®

- Structural trapezoidal standing seam roof panel
- 24" or 18" panel coverage, 2-11/16" rib height
- Gauges: 24 ga. standard, 22 ga. optional
- Minimum roof slope: 1/4:12
- Factory-applied side lap sealant
- Pittsburgh double flat locking mechanically seamed side lap
- Concealed clip designed for thermal movement
- Accommodates 1/2" to 6" blanket insulation
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 263, Fire Resistance Rating
 - UL 2218 Class 4 Impact Resistance
 - Factory Mutual Approved Class 1-90, 1-165
 - UL 790, Class A Fire Resistance Rating
 - ASTM E 1680 Air Penetration
 - ASTM E 1646 Water Infiltration
 - UL 580, Class 90 Wind Uplift, Construction #197 and 197A
 - ASTM E 1592 Roof Uplift
 - 2007 FBC Approved
- | | |
|--------------------------------|--------------------------------|
| 18" wide 10999.3 | 24" wide 10999.5 |
| 18" wide (with clamps) 10999.4 | 24" wide (with clamps) 10999.6 |



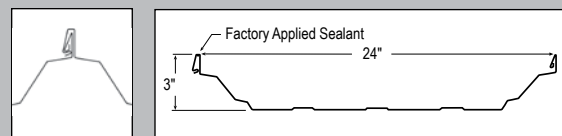
Snap-Loc 24

- Structural trapezoidal standing seam roof panel
- 24" panel coverage, 3" rib height
- Gauges: 24 ga. standard, 22 ga. optional
- Minimum roof slope: 1/4:12
- Factory-applied side lap sealant
- Snap together panel system
- Concealed clip designed for thermal movement
- Accommodates 1/2" to 6" blanket insulation
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

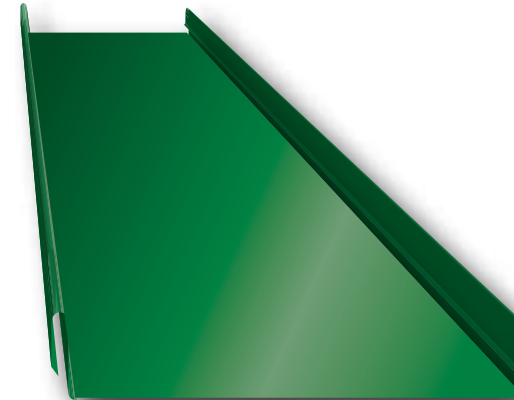


TESTING

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680 Air Penetration
- ASTM E 1646 Water Infiltration
- UL 580, Class 90 Uplift, Construction #240
- ASTM E 330, Uniform Static Air Pressure Difference
- ASTM E 1592 Roof Uplift
- 2007 FBC Approved 7415.1



Structural Standing Seam Products



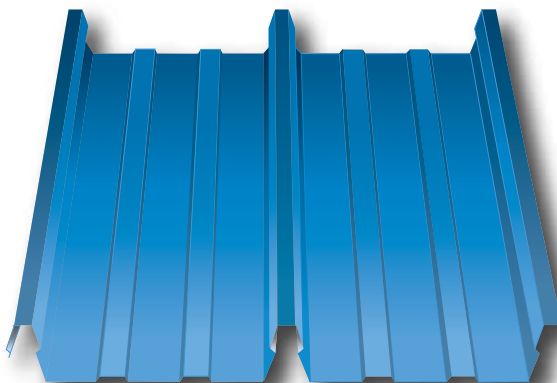
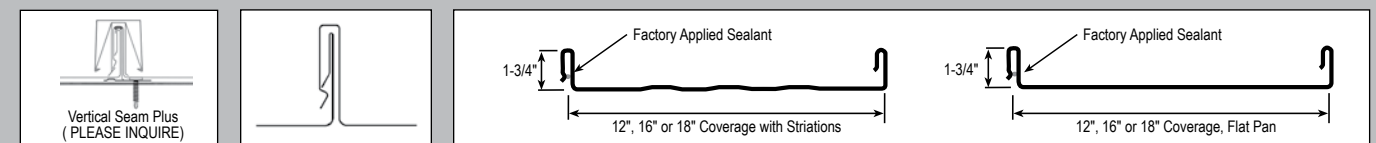
Vertical Seam

- Architectural/structural standing seam roof panel
- 12", 16", or 18" panel coverage, 1-3/4" rib height
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Snap-together panel system, minimum roof slope: 3:12
- Factory-applied side lap sealant
- Concealed clip designed for thermal movement
- Accommodates up to 4" blanket insulation
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®), MS Colorfast45®, and Acrylic Coated Galvalume®
- Contact Metal Sales for additional load-carrying capabilities



TESTING

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680 Air Penetration
- ASTM E 1646 Water Infiltration
- Miami-Dade County Approved (NOA 09-0423.05)
- UL 580, Class 90 Wind Uplift, Construction #254, 255, 261, 303, 342, 343, 436, 445, 446, 447, 448, 508 and 508A
- ASTM E 1592 Roof Uplift
- 2007 FBC Approved 12449.1, 13794.1



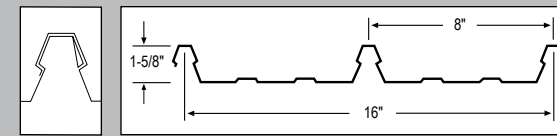
Clip-Loc

- Architectural/structural integral standing rib roof system
- Snap-together panel system
- 16" panel coverage, major rib: 8" centers, 1-5/8" rib height
- Gauges: 26 ga., 24 ga. standard, and 22 ga. optional
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Concealed clip designed for thermal movement
- Accommodates up to 4" blanket insulation
- Finishes: PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680 Air Penetration Approved
- ASTM E 1646 Water Infiltration Approved
- ASTM E 1592 Roof Uplift
- UL 580, Class 90 Wind Uplift, Construction #586 and 586A
- UL 1897, Uplift Resistance of Roofing Systems



Architectural Products

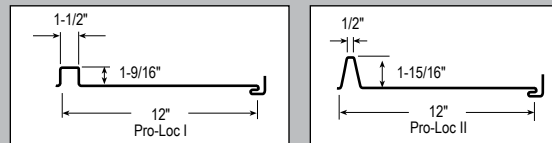
Pro-Loc I, II

- Architectural standing seam roof panel
- Minimum roof slope: 3:12
- 12" panel coverage
- Pro-Loc I: 1-9/16" box rib height
- Pro-Loc II: 1-15/16" trapezoidal rib height
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Concealed clip fastened system designed for thermal movement
- Applies over solid substrate with 30# felt underlayment
- Finishes: PVDF (Kynar 500®), MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 263, Fire Resistance Rating
- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- UL 580, Class 90 Wind Uplift, Construction #393, 394, 395, and 481



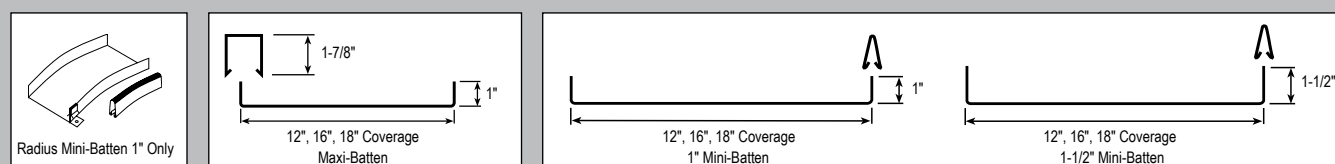
Mini/Maxi-Batten

- Architectural standing seam roof panel
- 12", 16", or 18" panel coverage, minimum roof slope: 3:12
- Mini-Batten offers, 1" and 1-1/2" high rib utilizing a narrow batten cap
- Maxi-Batten offers, 1-5/8" x 1-7/8" box type batten cap
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Concealed clip designed for thermal movement
- Applies over solid substrate with 30# felt underlayment
- Finishes: PVDF (Kynar 500®), MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

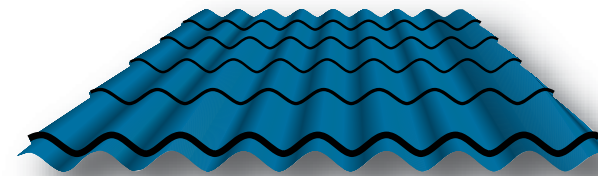
- UL 263, Fire Resistance Rating
- UL 2218, Class 4 Impact Resistance
- ASTM E 283 Air Infiltration
- ASTM E 331 Water Penetration
- UL 790, Class A Fire Resistance Rating
- UL 580, Class 90 Wind Uplift, Construction #397, 397A, and 430 (1" Mini-Batten)
- UL 580, Class 90 Wind Uplift, Construction #352 (1-1/2" Mini-Batten)
- UL 580, Class 90 Wind Uplift, Construction #398 and 398A (Maxi-Batten)



Architectural Products

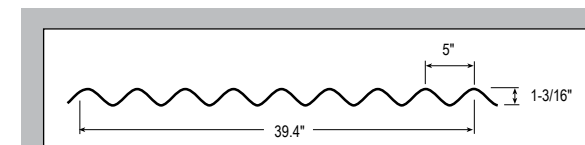
Stile

- Architectural simulated-clay tile, metal roof panel
- Exposed direct-fastened panel
- Panel coverage is one meter (39.4")
- Panel lengths available: from 3' to 20' in 1'-0" increments
- 5" center to center of rib with 1-3/16" rib height
- Panel steps, 1/2" high at 12" center to center
- 26 ga. standard
- Minimum roof slope: 3:12
- Applies over solid substrate with 30# felt underlayment
- Standard Finish: PVDF (Kynar 500®)
- Colors: 7 standard colors
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- Miami-Dade County Approved (NOA 08-0229.11)
- UL 580, Class 90 Wind Uplift, Construction #533 over 5/8" plywood deck
- Texas Windstorm Evaluation RC-163
- 2007 FBC Approved
- 1/2" Plywood 8131.4
- 5/8" Plywood 9107.4, 10916.5



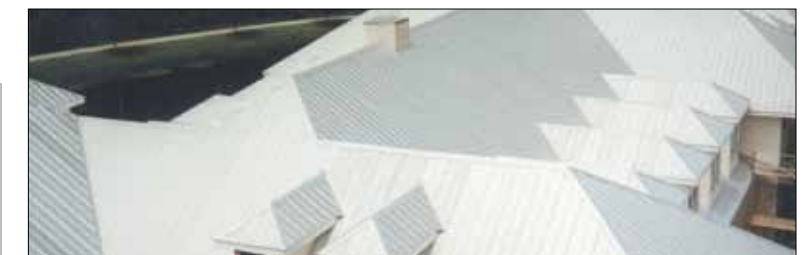
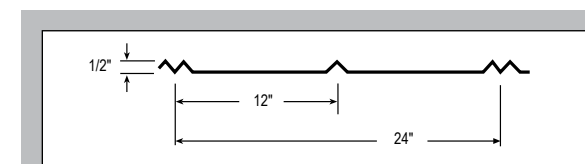
5V-Crimp

- Exposed direct-fastened roof panel, traditional "V" rib
- 24" panel coverage
- 1/2" rib height
- Gauges: 29 ga. and 26 ga. standard
- Minimum roof slope: 3:12
- Applies over solid substrate with 30# felt underlayment
- Finishes: MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 2218, Class 4 Impact Rating
- UL 790, Class A Fire Resistance Rating
- Miami-Dade County Approved (NOA 09-0929.03)
- UL 580, Class 90 Wind Uplift, Construction #453 and 579
- Texas Windstorm Evaluation RC-160
- 2007 FBC Approved
- 1/2" Plywood 8131.1
- 5/8" Plywood 10916.2, 12076.1



Architectural Products

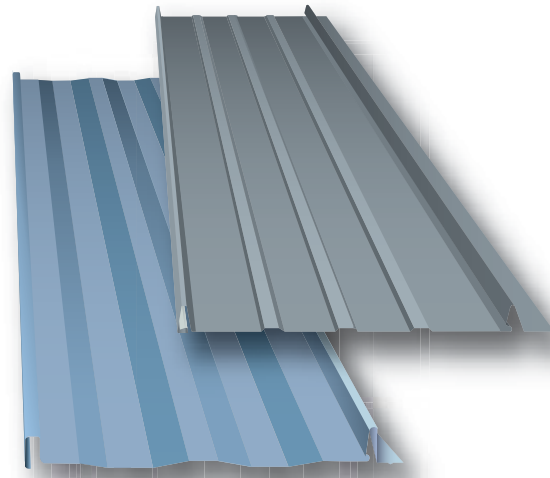


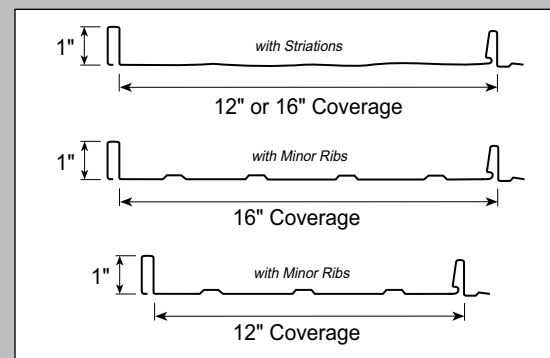
Image II

- Architectural concealed direct-fastened roof panel
- Panel coverage: 12" or 16"
- 1" rib height
- Gauges: 26 ga. standard
- Minimum roof slope: 3:12
- Applies over solid substrate with 30# felt underlayment
- Finishes: MS Colorfast45®, PVDF (Kynar 500®) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- Miami-Dade County approved (NOA 08-0229.12)
- UL 580, Class 90 Wind Uplift, Construction #529
- Texas Windstorm Evaluation RC-162
- 2007 FBC Approved 9107.3, 10916.4, 12995.1



Decra® Shingles Stone Coated Steel Roofing System

Manufactured using the finest lightweight zinc/aluminum alloy coated steel, covered with ceramic coated stone granules and sealed with an exclusive polymer coating, DECRA Roofing Systems are beautiful, durable, and trouble-free.

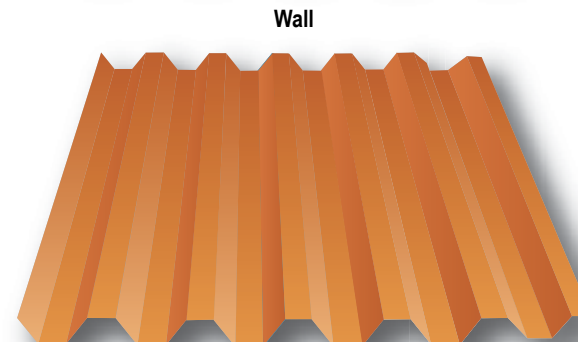
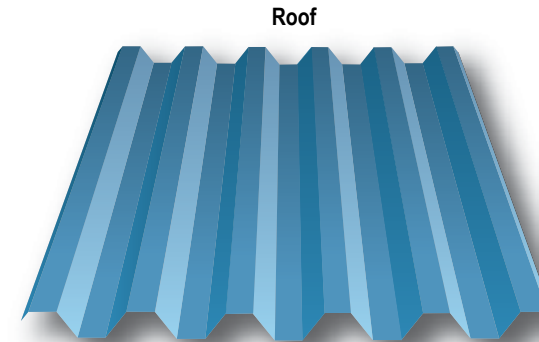
Features and Benefits

- Won't crack, break, burn, curl, split, or rot
- Lightweight (only 125 lbs to 150 lbs per square installed)
- Long-life, non-porous and freeze/thaw resistant
- Interlocking panels provide a weather-tight barrier
- Non-combustible, Class A rated material
- Walkable, low maintenance
- Transferable 50 year limited warranty – including hail penetration
- Class 4 impact resistance to UL 2218
- UL 580 Class 90 Wind Uplift, Construction #562, 563 and 596

DECRA®
Stone Coated Steel Roofing Systems



Commercial/Industrial Products

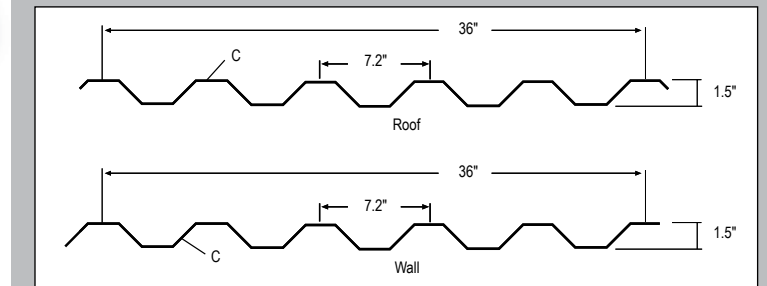


TESTING

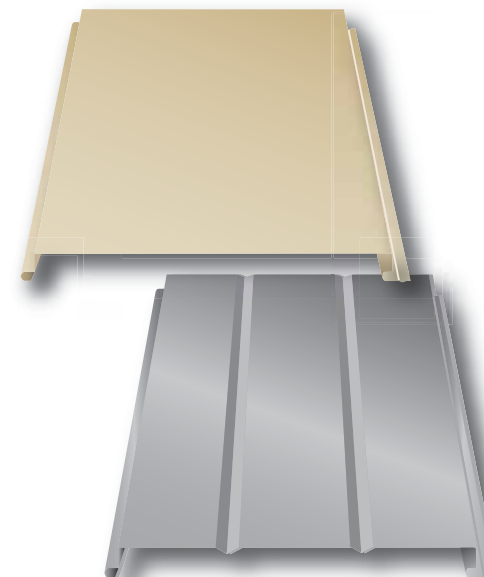
- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- UL 580, Class 90 Wind Uplift, Construction #137 and 244
- ASTM E 455-04
- ASTM E 1592
- ASTM E 330
- ASTM E 283/331
- ASTM E 1646/1680

IC72-Panel

- Exposed direct-fastened industrial panel for roof and wall applications
- 36" panel coverage, minimum roof slope: 1:12
- 1-1/2" rib height at 7.2" centers
- Gauges: 24 ga. standard, 22 ga. and 20 ga. optional
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



Flat Pan



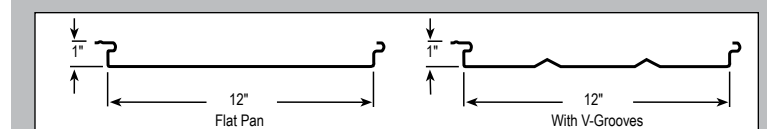
With V-Grooves

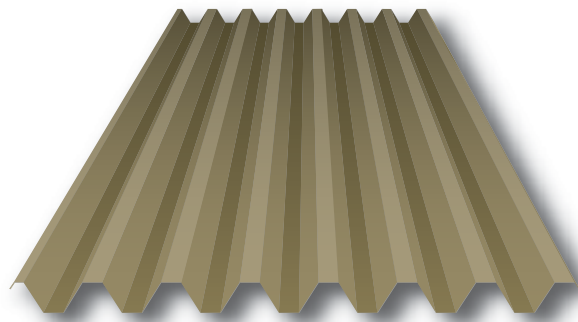
TESTING

- ASTM E 283 Air Infiltration
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- 2007 FBC Approved 9482.4

Soffit Panel

- Concealed direct-fastened system for wall, soffit, fascia, or liner applications
- 12" panel coverage
- Gauges: 26 ga., 24 ga., and 0.032" aluminum
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®), MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities





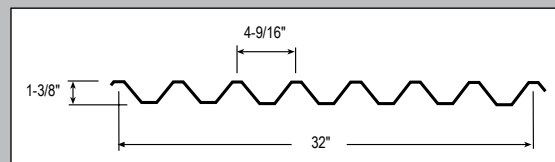
V-Line 32

- Exposed direct-fastened panel for roof and wall applications
- 32" panel coverage
- Trapezoidal rib on 4-9/16" centers
- 1-3/8" rib height
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, PVDF (Kynar 500®) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 580, Class 90 Wind Uplift, Construction #187
- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating



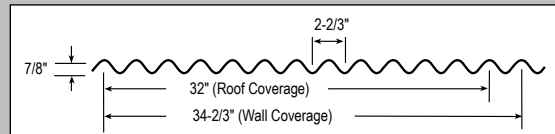
7/8" Corrugated

- Exposed direct-fastened panel for roof and wall applications
- 32" roof coverage (34-2/3" wall coverage)
- 7/8" rib height, 2-2/3" centers
- Gauges: 26 ga., 24 ga., 22 ga. and 20 ga. standard
- Optional material: stainless steel, aluminum, copper, and weathering steel
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



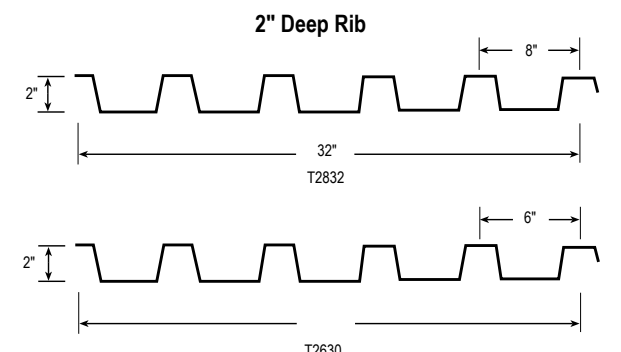
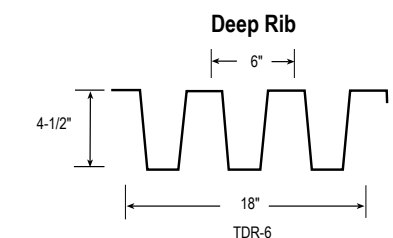
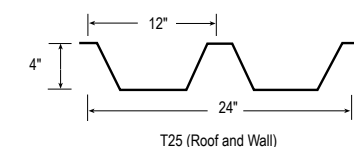
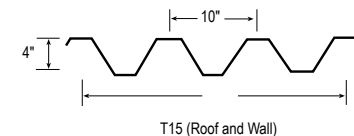
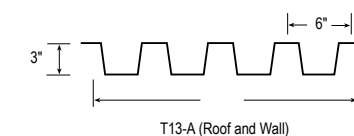
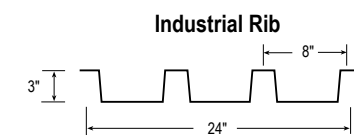
TESTING

- UL 2218, Class 4 Impact Resistance
 - UL 790, Class A Fire Resistance Rating
 - ASTM E 330 Wall Capacity
 - ASTM E 1592 Roof Uplift Capacity
 - ASTM E 283/331 Air and Water Infiltration
 - ASTM E 1646/1680 Air and Water Infiltration
 - UL 580, Class 90 Wind Uplift, Construction #649
 - 2007 FBC Approved
- Roof over 16 ga. Purlins 12813.1 Wall over 16 ga. Girts 12814.1



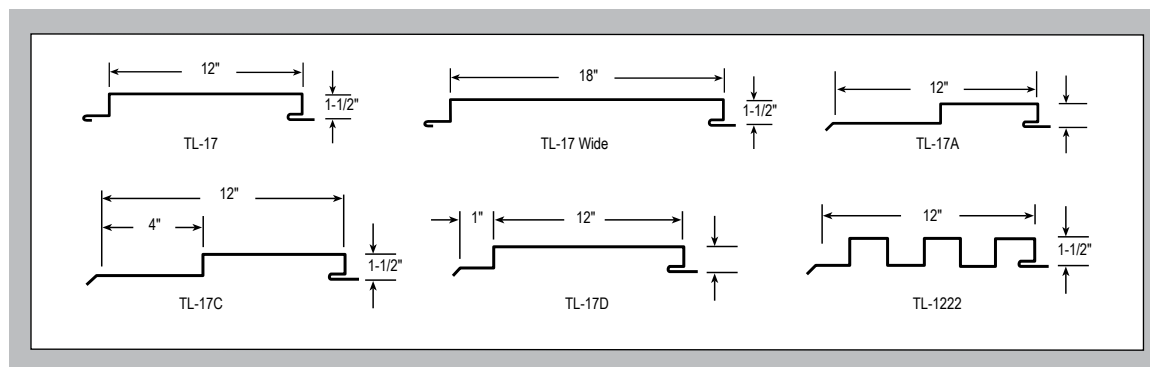
Industrial Rib/Deep Rib Series

- Exposed direct-fastened panel for roof and wall applications
 - Applies over open framing or solid substrate
 - Various panel coverages
 - 2", 3", 4", and 4-1/2" rib heights
 - Trapezoidal rib on various centers
 - Optional material: stainless steel, aluminum, and copper
 - Gauges: 24 ga. standard, 22 ga. 20 ga. and 18 ga. optional
 - Minimum roof slope: 1:12
 - Custom capabilities include:
 - Crimp curving on numerous panel profiles
 - Curving may be convex, concave, or "S" curves
 - Perforated panels for wind screens and liner panels
 - Standard Finish: PVDF (Kynar 500®)
 - Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol, and Polyester
 - Contact Metal Sales for load-carrying capabilities
- Other profiles are available. Please inquire.**



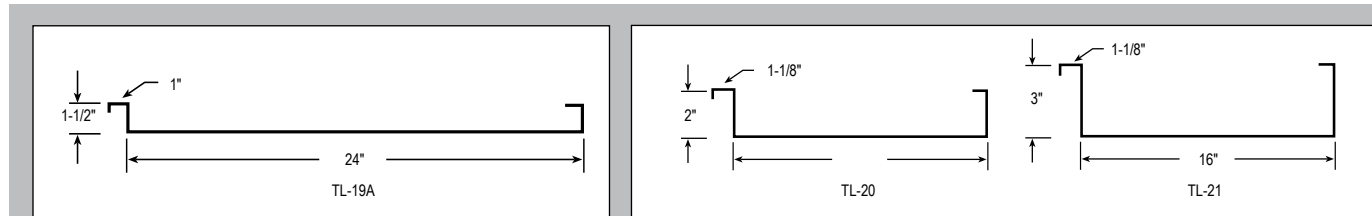
Flush Face Series

- Concealed direct-fastened panel for wall, soffit, fascia, or liner applications
 - Applies over open framing or solid substrate
 - 12", 18", and 24" panel coverage
 - 1-1/2" panel depth
 - Optional material: stainless steel, aluminum, and copper
 - Gauges: 24 ga. standard, 22 ga. 20 ga. and 18 ga. optional
 - Custom capabilities include:
 - Perforated panels for wind screens and liner panels
 - Standard Finish: PVDF (Kynar 500®)
 - Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol, and Polyester
 - Contact Metal Sales for load-carrying capabilities and testing
- Other profiles are available. Please inquire.**



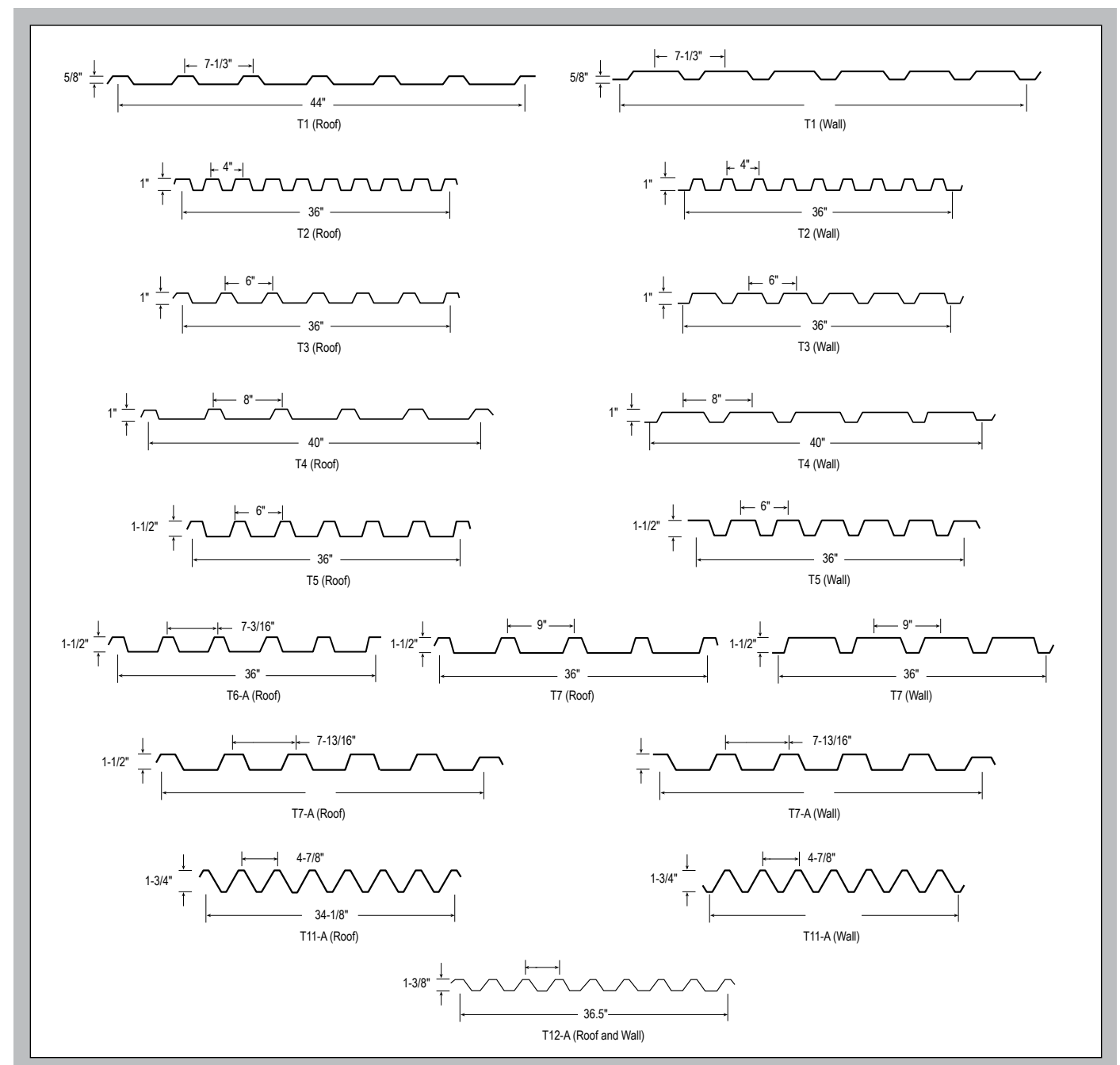
Interior Liner Series

- Exposed direct-fastened panel for liner applications
 - Applies over open framing or solid substrate
 - 16" or 24" panel coverage
 - 1-1/2", 2" and 3" rib height
 - Optional material: stainless steel, aluminum, and copper
 - Gauges: 24 ga. standard, 22 ga. 20 ga. and 18 ga. optional
 - Custom capabilities include:
 - Perforated panels for wind screens and liner panels
 - Tapering
 - Standard Finish: PVDF (Kynar 500®)
 - Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol, and Polyester
 - Contact Metal Sales for load-carrying capabilities and testing
- Other profiles are available. Please inquire.**



Exposed Fastened Series

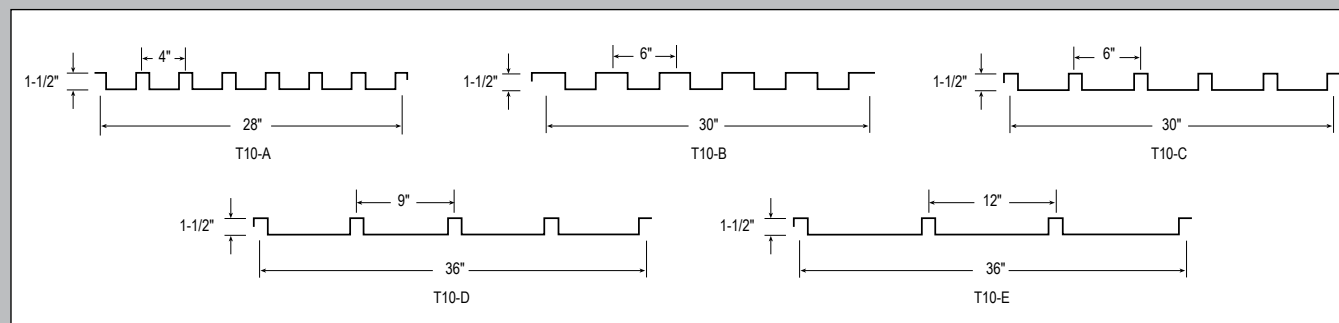
- Exposed direct-fastened panel for roof and wall applications
 - Applies over open framing or solid substrate
 - Panel coverage: 34-1/8" – 44"
 - Rib height: 5/8" – 1-3/4"
 - Optional material: stainless steel, aluminum, and copper
 - Gauges: 24 ga. standard, 22 ga. 20 ga. and 18 ga. optional
 - Minimum roof slope: 1:12
 - Standard Finish: PVDF (Kynar 500®)
 - Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol, and Polyester
 - Contact Metal Sales for load-carrying capabilities
- Other profiles are available. Please inquire.**





Verti-Line Series

- Exposed direct-fastened panel for wall, soffit, fascia, and liner applications
 - Applies over open framing or solid substrate
 - 28", 30", and 36" panel coverages, 1-1/2" rib height
 - 90° vertical box ribs on 4", 6", 9", and 12" centers
 - Optional material: stainless steel, aluminum, and copper
 - Gauges: 24 ga. standard, 22 ga., 20 ga. and 18 ga. optional
 - Custom capabilities include:
 - Crimp curving; convex, concave, or "S" curves
 - Perforated panels for wind screens and liner panels
 - Standard Finish: PVDF (Kynar 500®)
 - Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol, and Polyester
 - Contact Metal Sales for more information
- Other profiles are available. Please inquire.**



Crimp-Curved Metal Panels

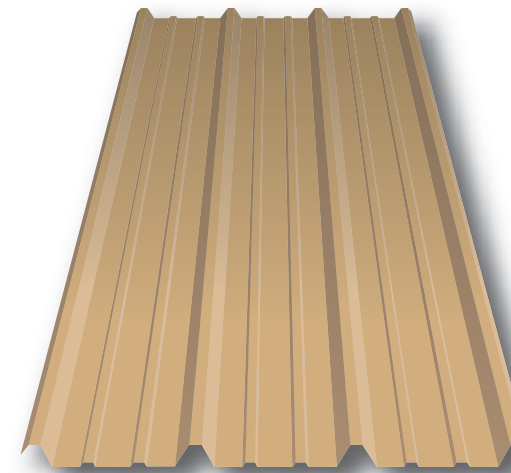
Metal Sales offers curving capabilities for numerous panel profiles. Application for the profiles include canopy covers, walkways, mansards, and conveyor hoods as well as complete wall and roof systems. Panels can be curved in either direction including "S"-curves. Several corner details are available. Utilizing the unique crimped bending process, profiles can be shaped beyond conventional curving to achieve many distinctive design features. A variety of profiles can be curved including PBR-Panel, 7/8" Corrugated, IC72-Panel, as well as selected Exposed Fastened Series, Industrial Rib Series, and Verti-Line Series profiles. Contact Metal Sales for more information.



Exotic Metals

In addition to the wide variety of profiles and colors available, Metal Sales also offers unique materials and metal finishes including perforated.

- Copper
- Stainless Steel
- Aluminum
- Zinc
- Copper Plated Stainless Steel
- Lead Coated Copper



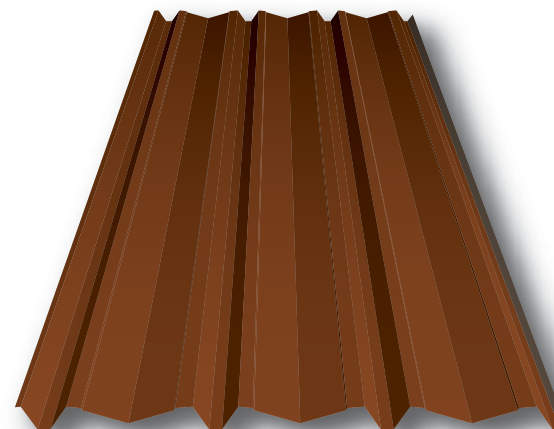
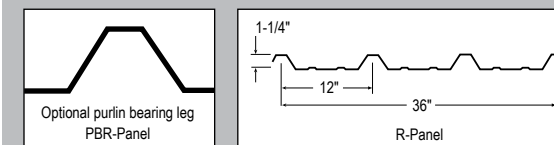
R-Panel/PBR-Panel

- Exposed direct-fastened panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 12" centers
- 1-1/4" rib height
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Minimum roof slope: 1:12 (PBR-Panel only)
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 580, Class 90 Wind Uplift, Construction #161
 - UL 2218, Class 4 Impact Resistance
 - UL 790, Class A Fire Resistance Rating
 - ASTM E 455 Diaphragm Test
 - Miami-Dade County Approved (NOA 03-1210.03,09-0113.01)(24 ga. roof and wall)
 - Texas Windstorm Evaluation RC-198
 - 2007 FBC Approved
- R-Panel 9482.3 R-Panel 7490.3
R-Panel 13183.1



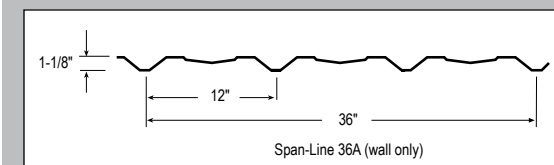
Span-Line 36A

- Exposed direct-fastened wall panel
- 36" panel coverage
- 1-1/8" rib height
- Inverted trapezoidal ribs on 12" centers
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E 330 Wall Capacity
- Miami-Dade County Approved (NOA 07-0119.03)
- 2007 FBC Approved 9482.5



Metal Building Products

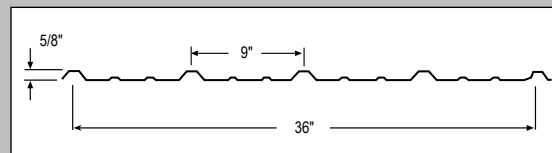
Pro-Panel II®

- Exposed direct-fastened, low profile panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 9" centers
- 5/8" rib height
- Gauges: 29 ga. and 26 ga. standard
- Minimum roof slope: 3:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E 455 Diaphragm Test
- 2007 FBC Approved 8131.3



Classic Rib

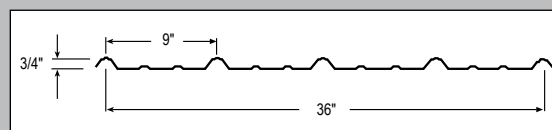
- Exposed direct-fastened, low profile panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 9" centers
- 3/4" bell-top rib height
- Gauges: 29 ga. and 26 ga. standard
- Minimum roof slope: 3:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E 564-95 Diaphragm Test
- ASTM E 455 Diaphragm Test
- UL 580, Class 90 Wind Uplift, Construction #560 and 584
- Miami-Dade County Approved (NOA 07-0731.08, 06-0410.08)
- Texas Windstorm Evaluation RC-161
- 2007 FBC Approved

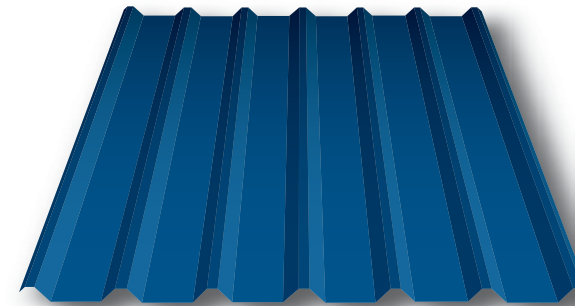
- | | |
|----------------------------------|-----------------------------------|
| 29 ga. over 2x Purlins 7490.2 | 26 ga. over 16 ga. Purlins 7490.1 |
| 29 ga. over 1/2" Plywood 8131.2 | 26 ga. over 5/8" Plywood 9107.2 |
| 29 ga. over 2x Girts 9482.2 | 26 ga. over 5/8" Plywood 10916.3 |
| 29 ga. over 5/8" Plywood 11560.1 | 26 ga. over 16 ga. Girts 9482.1 |



Metal Building Products

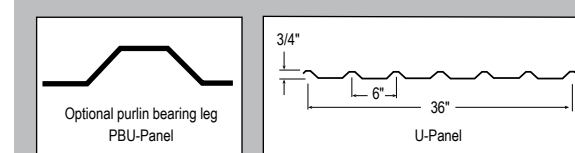
U-Panel/PBU-Panel

- Exposed direct-fastened panel for roof and wall applications
- 36" panel coverage, 3/4" rib height
- Trapezoidal rib on 6" centers
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Minimum roof slope: 1:12
- Applies over opening framing or solid substrate
- Finishes: MS Colorfast45®, PVDF (Kynar 500®), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 580, Class 90 Wind Uplift, Construction #39
- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- Texas Windstorm Evaluation RC-196 (U-Panel)



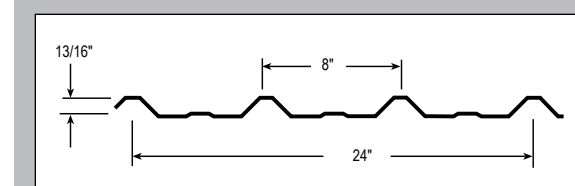
Delta Rib

- Exposed direct-fastened panel for roof and wall applications
- 24" panel coverage
- Trapezoidal rib on 8" centers
- 13/16" rib height
- Gauges: 29 ga. and 26 ga. standard
- Minimum roof slope: 3:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



TESTING

- UL 790, Class A Fire Resistance Rating
- UL 2218, Class 4 Impact Resistance



Secondary Framing Members

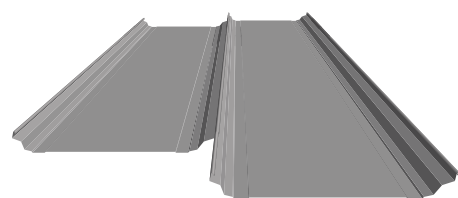
Roof Retrofit

- Added slope minimizes maintenance, flat roof problems, and geometry problems
- Roofing systems designed for a longer life cycle
- Utilizes structural concealed clip panel systems as well as exposed fastened panel systems designed to the latest testing requirements, including wind, fire, and impact
- Heavy gauge steel framing offers a solid base
- In-house engineering and design assistance available
- Gives existing roofs a new pleasing appearance while hiding roof top units
- LEED points available, based on building reuse
- Cees and Zees 4", 6", 8", 10", 12" deep with 2-1/2" to 4" flange widths



Self Storage Systems

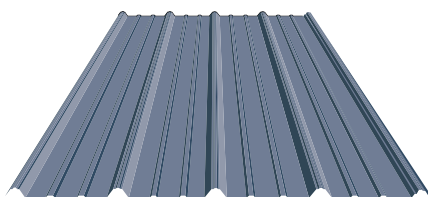
- In-house design, estimating, and detailing available
- Complete erection drawings including post layouts, roof and wall framing, and roof and wall panels
- Matching trims and accessories
- 5'-0" modules standard with custom unit sizes available
- Economical-to-high end designs
- Custom site layouts
- Stick-built for quick construction



Concealed Fastened Roof Panel



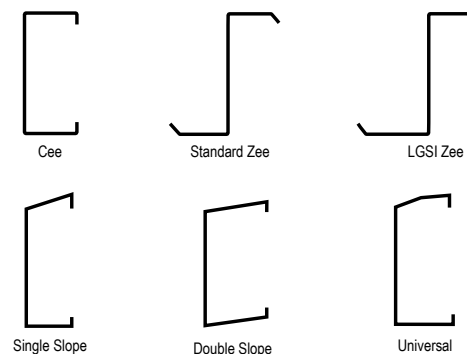
Exposed Fastened Roof and Wall Panel



Exposed Fastened Wall and Liner Panel

Secondary Framing Members

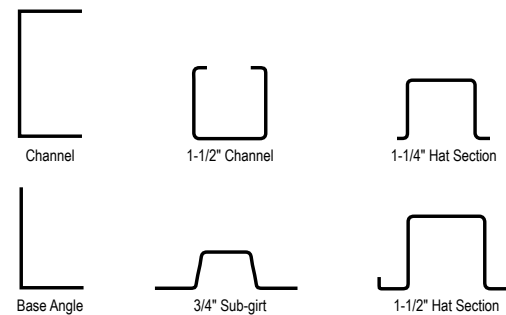
Cees, Zees and Eave Struts



Cee Standard Zee LGS Zee

Single Slope Double Slope Universal

Channels, Hat Sections, and Angles



Channel 1-1/2" Channel 1-1/4" Hat Section Base Angle 3/4" Sub-girt 1-1/2" Hat Section

Other Components are available. Please inquire.

- Cee and Zee shapes
- Symmetrical and unsymmetrical flanges
- Red Oxide Finish ASTM A 1011 Grade 50, Class 2 (55 Ksi min yield)
- Galvanized Finish ASTM A 653 Grade 50, Class 2 (55 Ksi min yield)
- Eave Struts in single or double slope for high side or low side applications
- LGS Purlins available



General Information

Materials and Paint Systems

Materials

Unpainted materials shall conform to ASTM A 792 Acrylic Coated Galvalume® (ACG) coating consisting of 55% aluminum, 1.6% silicon and the balance zinc by weight (AZ55). Yield strength will vary by panel profile and gauge. (Inquire with Metal Sales for specific minimum yield strength.) Differential appearance of Acrylic Coated Galvalume® roofing materials is not a cause for rejection.

Painted material shall conform to ASTM A 446/ASTM A 653 and be either hot dipped galvanized with a substrate coating as per ASTM A 525/ASTM A 924 or Acrylic Coated Galvalume® conforming to ASTM A 792 with a AZ50 coating. Yield strength will vary by panel profile and gauge. (Inquire with Metal Sales for specific minimum yield strength.)

Metal Sales uses high quality paint systems designed to provide long term performance and protection. Each coating is formulated with thoroughly researched, tested, and field proven pre-treatments, primers, resins, and pigments that can meet your design and performance requirements.

PVDF (Kynar 500®)

This paint system combines ceramic pigmentation with polyvinylidene fluoride for a superior, long-lasting performance. The PVDF system is respected for its durability, resistance to chalking and fading, chemical resistance, and color retention. Please note: the PVDF system meets both Kynar 500/Hylar 5000 specifications and contains 70% Kynar 500 or Hylar 5000 resins. Kynar 500 and Hylar 5000 are produced under license from Atofina and Ausimont, respectively. See Color Guide for available colors.

MS Colorfast45®

This is a thermoset paint system composed of polyester resin which has been modified with a silicone resin. The MS Colorfast45® system offers good protection to the elements with special consideration to chalk and fade resistance, durability, and chemical resistance. See Color Guide for available colors.

Touch-Up Paint

Touch-up paint is used to cover and protect unexpected scratches on the paint finish that may occur during installation of panel. Touch-up paint will not weather as well or at the same rate as the original system. Test in an area that will not be noticeable.

Metallic Colors

Metallic paint colors are available at an additional charge. Minor differences in color and appearance are normal and to be expected.

To minimize the possible differences in visual appearance, an entire job should be painted at one time, from one batch of paint, using the same application equipment. Additionally, fabricated panels, flat sheet, and flashings should be oriented in the same direction.

Trims and Accessories

Metal Sales manufactures a wide selection of standard trims and can even produce custom trims for practically any profile. The 26 gauge trims are produced with a MS Colorfast45® paint system or a PVDF (Kynar 500®) paint system. The 24 gauge trims are produced with a PVDF (Kynar 500®) paint system. See Color Guide for available colors.

Profiles of standard trims are available on the Metal Sales website. For custom profiles please inquire with your nearest Metal Sales manufacturing location.

Metal Sales Manufacturing Locations



LONGMONT, COLORADO

7990 East I-25, Frontage Road
Longmont, CO 80504
800.289.7663 • 800.289.1617/Fax

JACKSONVILLE, FLORIDA

7110 Stuart Avenue
Jacksonville, FL 32254
800.394.4419 • 800.413.3292/Fax

JEFFERSON, OHIO

352 East Erie
Jefferson, OH 44047
800.321.5833 • 800.233.5719/Fax

INDEPENDENCE, MISSOURI

1306 S. Powell Road
Independence, MO 64057
800.747.0012 • 800.409.3069/Fax

SELLERSBURG, INDIANA

7800 State Rd. 60
Sellersburg, IN 47172
800.999.7777 • 800.477.9318/Fax

ROGERS, MINNESOTA

22651 Industrial Boulevard
Rogers, MN 55374
800.328.9316 • 800.938.9119/Fax

ANTIOCH, TENNESSEE

4314 Hurricane Creek Boulevard
Antioch, TN 37013
800.251.8508 • 800.419.4372/Fax

SPOKANE, WASHINGTON

East 2727 Trent Avenue
Spokane, WA 99202
800.572.6565 • 509.534.4427/Fax

KENT, WASHINGTON

20213 84th Avenue South
Kent, WA 98032
800.431.3470 • 253.872.2008/Fax

NEW ALBANY, INDIANA

999 Park Place
New Albany, IN 47150
812.944.2733 • 812.944.1418/Fax

ROCK ISLAND, ILLINOIS

8111 29th Street West
Rock Island, IL 61201
800.747.1206 • 309.787.1833/Fax

ORWIGSBURG, PENNSYLVANIA

29 Pinedale Industrial Road
Orwigsburg, PA 17961
800.544.2577 • 800.544.2574/Fax

TEMPLE, TEXAS

3838 N. General Bruce Drive
Temple, TX 76501-6505
800.543.4415 • 800.543.4473/Fax

WOODLAND, CALIFORNIA

1326 Paddock Place
Woodland, CA 95776
800.759.6019 • 530.668.0901/Fax

FONTANA, CALIFORNIA

14213 Whittram Avenue
Fontana, CA 92335
800.782.7953 • 909.829.9083/Fax

ANCHORAGE, ALASKA

4625 Old Seward Highway
Anchorage, AK 99503
866.640.7663 • 907.646.7664/Fax

BAY CITY, MICHIGAN

5209 Mackinaw Road
Bay City, MI 48706
888.777.7640 • 888.777.0112/Fax

DETROIT LAKES, MINNESOTA

1435 Egret Avenue
Detroit Lakes, MN 56501
888.594.1394 • 888.594.1454/Fax

MOCKSVILLE, NORTH CAROLINA

188 Quality Way
Mocksville, NC 27028
800.228.6119 • 800.228.7916/Fax

FORT SMITH, ARKANSAS

7510 Ball Road
Fort Smith, AR 72908
877.452.3915 • 479.646.5204/Fax

Memberships and Affiliations

- The Metal Initiative
- CRRC - Cool Roof Rating Council
- Metal Construction Association
- Construction Specification Institute
- ENERGY STAR® Partner
- MRA - Metal Roofing Alliance
- National Frame Builders Association
- National Roofing Contractors Association

www.metalsales.us.com

ms metal sales
manufacturing corporation