



The Difference is **METAL**

The Advantages are Quality and Value

metal sales
manufacturing corporation



Manufacturer of steel panels and components for the building industry.

About METAL SALES







With 19 branches throughout the United States, Metal Sales Manufacturing Corporation is the building industry's premier provider of metal building components. We produce metal roofing and siding panels and accessories for agricultural, commercial, architectural, industrial, and residential building projects of every shape and size – new construction or retro-fit. Metal Sales has over 40 years history of providing cutting-edge products, impeccable service from highly trained professionals, and the largest sales force in the industry.

- Serving the architectural, commercial, residential, agricultural, and industrial markets
- In-house engineering and design assistance available
- A variety of materials and finishes available including Kynar 500®, Weathering Steel, Marblique, Mist-ique, stainless steel, and copper
- 19 convenient locations across the United States, including Alaska – shipping worldwide
- 45-year paint and 20-year weather tightness warranties available
- Panel testing including FM-4471, UL580, ASTM E-1592, and approvals including Miami-Dade County and FBC 2007
- Over 75 profiles available as well as matching trim and accessories
- Curving capabilities available – see pages 3, 6, and 14





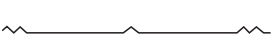

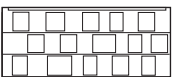
Metal Sales is dedicated to leading the metal building component industry by setting new standards for operating efficiency, product innovation, product value, and active service management. We strongly believe that by investing in our corporation we will ensure the best products and services for our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

Profile Selection










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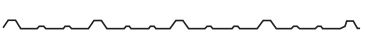



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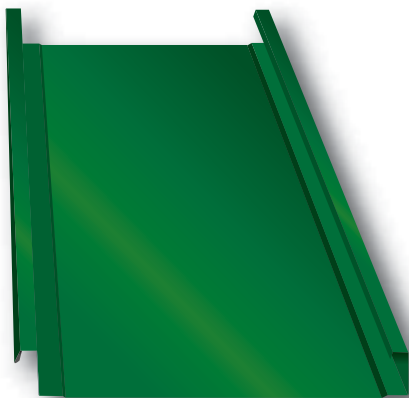
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STRUCTURAL STANDING SEAM PRODUCTS

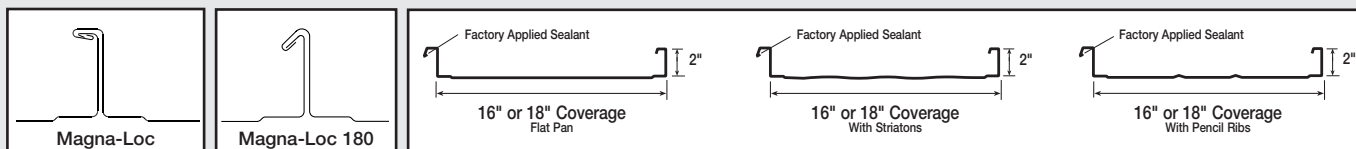


TESTING

- UL-263, Fire Resistance Rating
- UL-2218 Class 4 Impact Resistance
- 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
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- UL 580, Class 90 Wind Uplift, Construction Number 506, 506A, 506B
- 2007 FBC Approved
 - Magna-Loc 10999.1
 - Magna-Loc 180 10999.2

Magna-Loc/Magna-Loc 180

- Architectural/structural flat pan standing seam roof panel
- 16" or 18" panel coverage, 2" rib height
- Gauges: 24ga standard, 22ga 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: Kynar 500® (PVDF) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



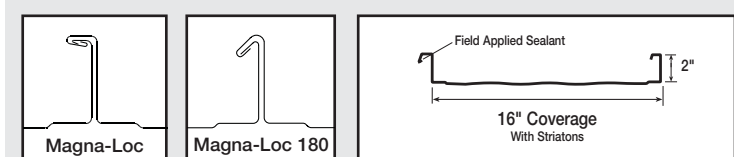
Curved Magna-Loc

- Architectural/structural standing seam roof panel
- 16" panel coverage, 2" rib height
- 24ga 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: Kynar 500® (PVDF) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

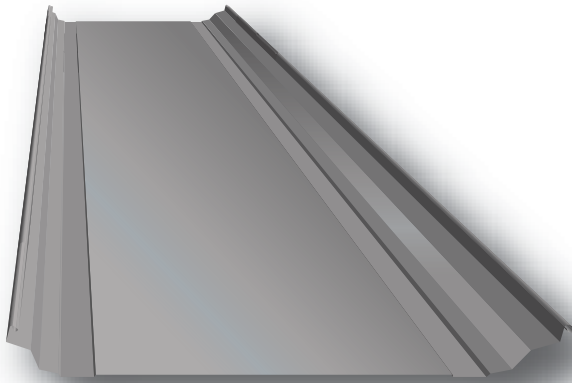


TESTING

- 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
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- UL 580, Class 90 Wind Uplift, Construction Number 576, 577, 583



STRUCTURAL STANDING SEAM PRODUCTS



Seam-Loc 24®

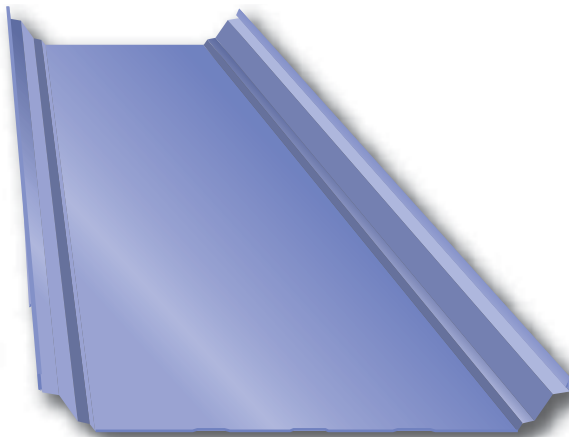
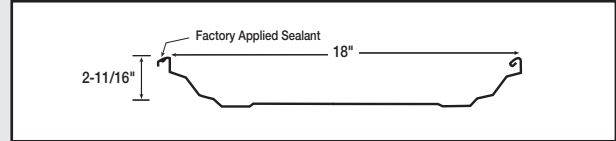
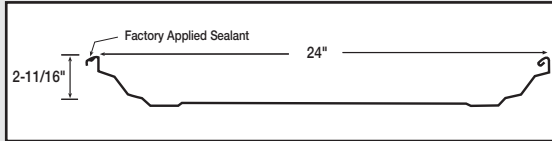
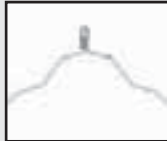
- Structural trapezoidal standing seam roof panel
- 24" or 18" panel coverage, 2-11/16" rib height
- Gauges: 24ga standard, 22ga optional
- Minimum roof slope: 1/4:12
- Factory-applied side lap sealant
- Pittsburgh double flat locking mechanically seamed side lap
- Concealed clip designed for thermal movement
- Accommodates 1/2" to 6" blanket insulation
- Applies over open framing or solid substrate
- Finishes: Kynar 500® (PVDF), 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
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- 2007 FBC Approved
 - 18" wide 10999.3 24" wide 10999.5
 - 18" wide (with clamps) 10999.4 24" wide (with clamps) 10999.6



Life White Boys and Girls Club/Madison, IN

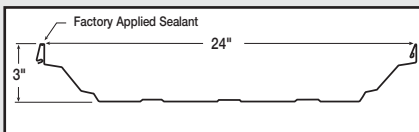


Snap-Loc 24

- Structural trapezoidal standing seam roof panel
- 24" panel coverage, 3" rib height
- Gauges: 24ga standard, 22ga 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: Kynar 500® (PVDF), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

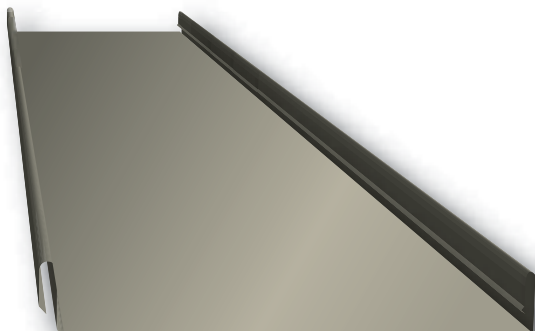
TESTING

- 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
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- 2007 FBC Approved 7415.1



Office Building/Duquesne, PA

STRUCTURAL STANDING SEAM PRODUCTS

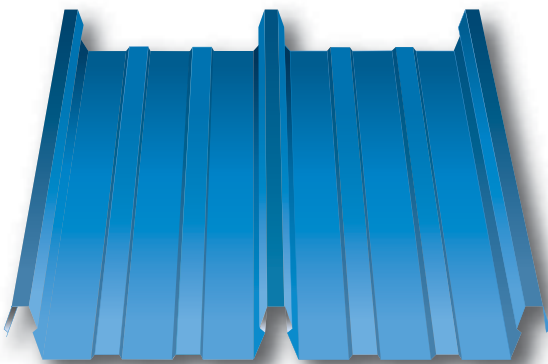
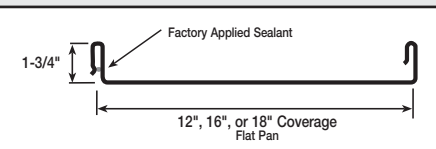
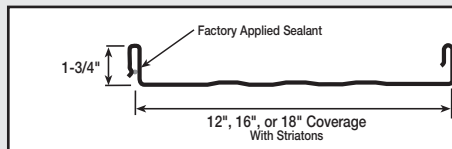
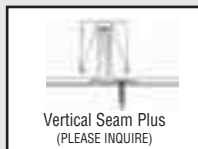


Vertical Seam

- Architectural/structural standing seam roof panel
- 12", 16", or 18" panel coverage, 1-3/4" rib height
- Gauges: 26ga and 24ga standard, 22ga 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: Kynar 500® (PVDF), 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
- UL 580, Class 90 Wind Uplift, Construction Numbers 254, 255, 261, 303, 342, 343, 436, 445, 446, 447, 448
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- Florida Building Code Approved (5807.3)
- 2007 FBC Approved 10916.6

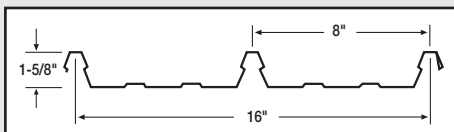
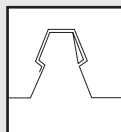


Clip-Loc

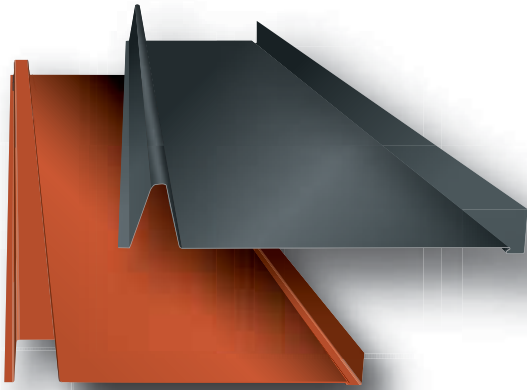
- Architectural/structural integral standing rib roof system
- Snap-together panel system
- 16" panel coverage, major rib: 8" centers, 1-5/8" rib height
- Gauges: 26ga, 24ga standard, and 22ga optional
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Concealed clip designed for thermal movement
- Accommodates up to 4" blanket insulation
- Finishes: Kynar 500® (PVDF), 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
- CEGS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- UL 580, Class 90 Wind Uplift, Construction Numbers 586, 586A
- UL 1897, Uplift Resistance of Roofing Systems



ARCHITECTURAL PRODUCTS



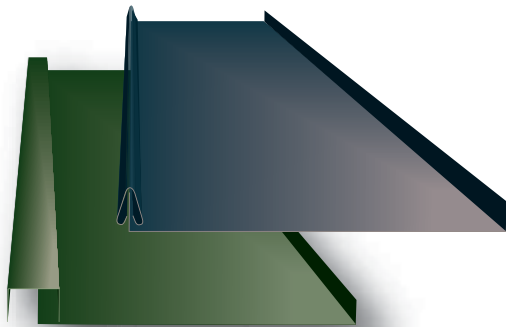
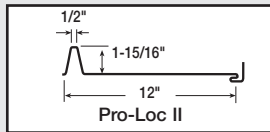
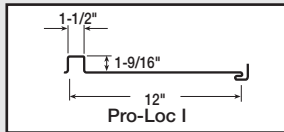
Pro-Loc I, II

- 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: 26ga and 24ga standard, 22ga optional
- Concealed clip fastened system designed for thermal movement
- Applies over solid substrate with 30# felt underlayment
- Finishes: Kynar 500® (PVDF), 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



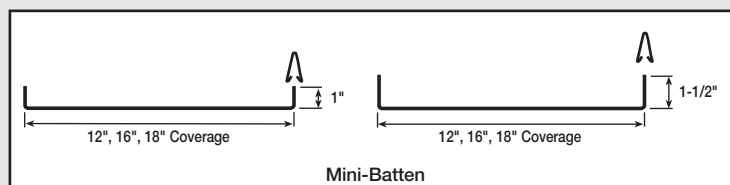
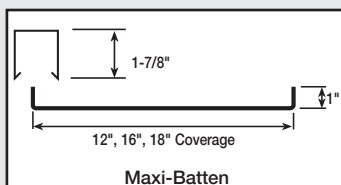
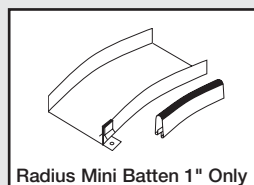
Mini/Maxi Batten

- 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: 26ga and 24ga standard, 22ga optional
- Concealed clip designed for thermal movement
- Applies over solid substrate with 30# felt underlayment
- Finishes: Kynar 500® (PVDF), MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

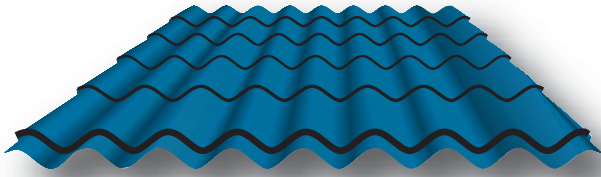


TESTING

- 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 (Mini-Batten)
- UL 580, Class 90 Wind Uplift, Construction #398/398A (Maxi-Batten)

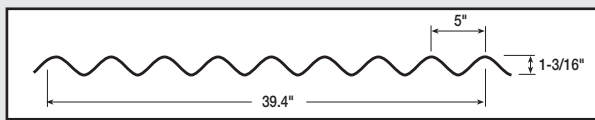


ARCHITECTURAL PRODUCTS



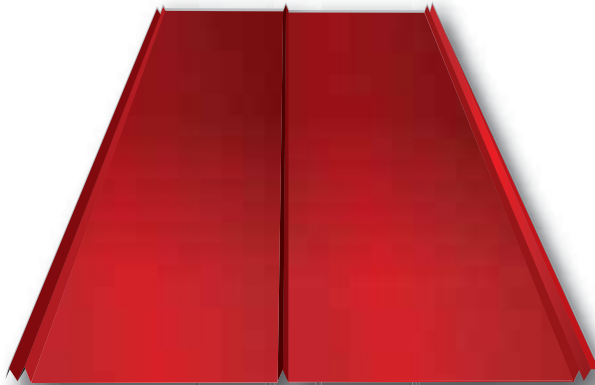
TESTING

- 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



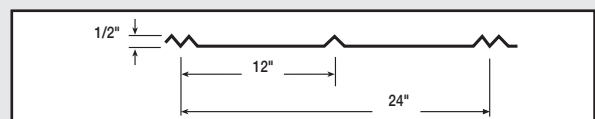
Stile®

- 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
- 26ga standard
- Minimum roof slope: 3:12
- Applies over solid substrate with 30# felt underlayment
- Six unique Kynar 500® (PVDF) colors
- 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 08-0229.13)
 - UL 580, Class 90 Wind Uplift, Construction #453, 579
 - Texas Windstorm Evaluation RC-160
 - 2007 FBC Approved
- 1/2" Plywood 8131.1 5/8" Plywood 9107.1, 10916.2



5V-Crimp

- Exposed direct fastened roof panel, traditional "V" rib
- 24" panel coverage
- 1/2" rib height
- Gauges: 29ga and 26ga 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



ARCHITECTURAL PRODUCTS

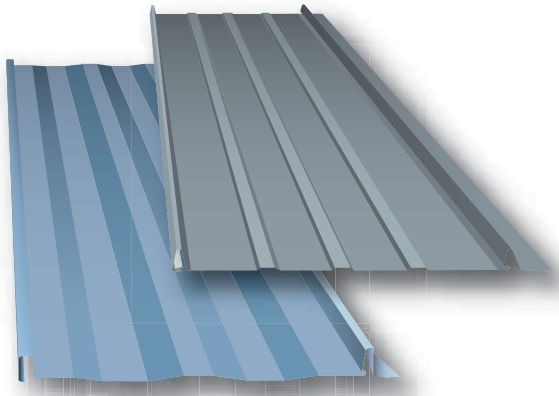


Image II

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

TESTING

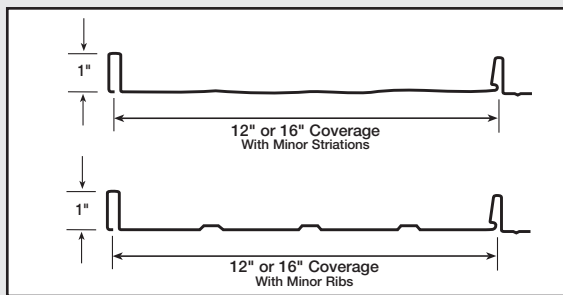
- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- Miami-Dade County approved (NOA 08-0229.12)
- ASTM E-1592
- Texas Windstorm Evaluation RC-162
- 2007 FBC Approved 9107.3, 10916.4



Residence/St. Augustine, FL



Grocery Store/Kalispell, MT



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, 596

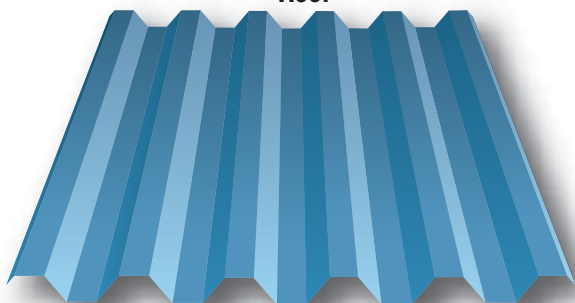


DECRA®

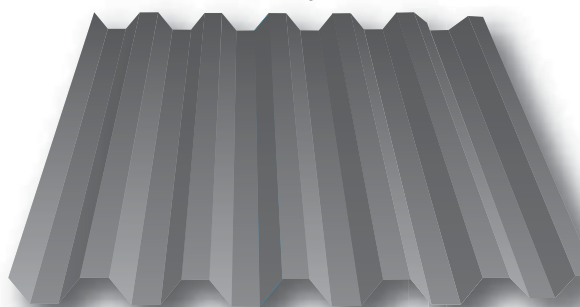
Stone Coated Steel Roofing Systems

COMMERCIAL/INDUSTRIAL PRODUCTS

Roof



Wall



TESTING

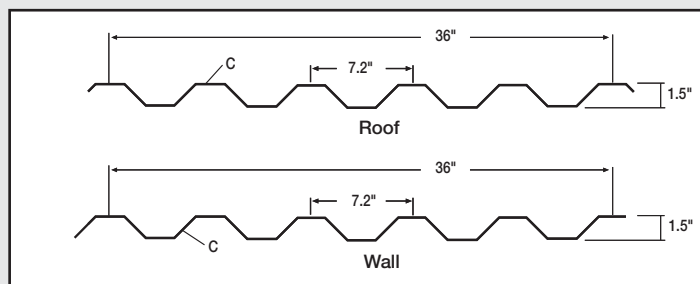
- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- UL 580, Class 90 Wind Uplift, Construction #244
- ASTM E-455-04

IC72-Panel

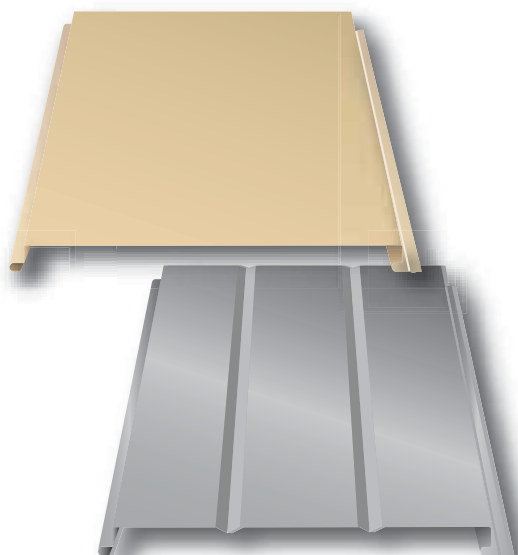
- Exposed direct-fastened industrial panel for roof and wall applications
- 36" panel coverage, minimum roof slope: 1:12
- 1-1/2" rib height at 7.2" centers
- Gauges: 24ga standard, 22ga and 20ga optional
- Applies over open framing or solid substrate
- Finishes: Kynar 500® (PVDF) and Acrylic Coated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



Schiller Hardware/Louisville, KY



Flat Pan



With V-Grooves

TESTING

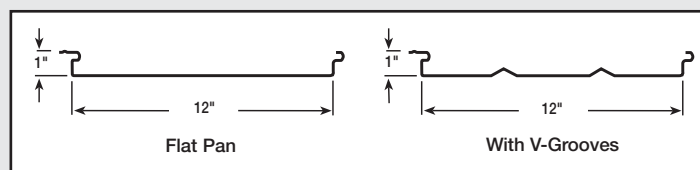
- ASTM E-283 Air Infiltration
- ASTM E-331 Water Penetration
- ASTM E-330 Uniform Static Air Pressure Difference
- 2007 FBC Approved 9482.4

Soffit Panel

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

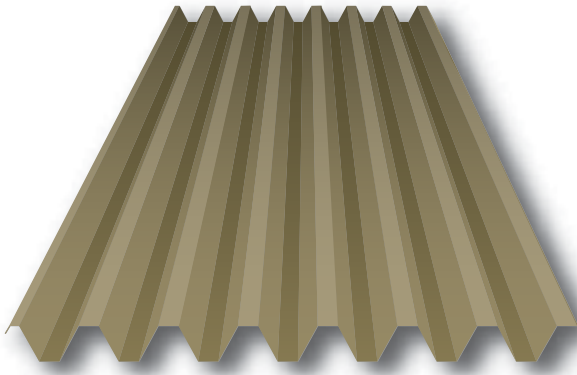


Automotive Showroom/Louisville, KY



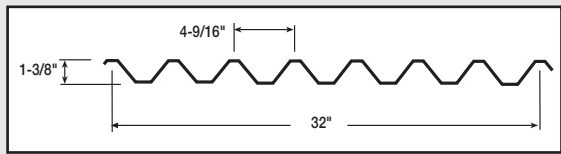
V-Line 32

- 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: 26ga and 24ga standard, 22ga optional
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, Kynar 500® (PVDF) and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities



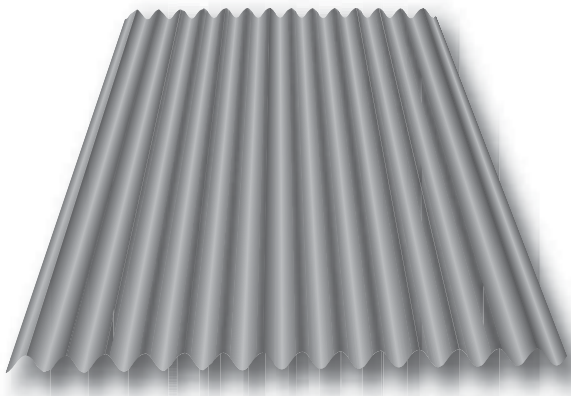
TESTING

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



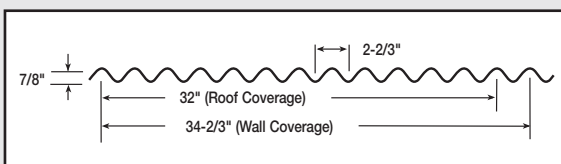
7/8" Corrugated

- 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: 26ga, 24ga, 22ga and 20ga 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®, Kynar 500® (PVDF), 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

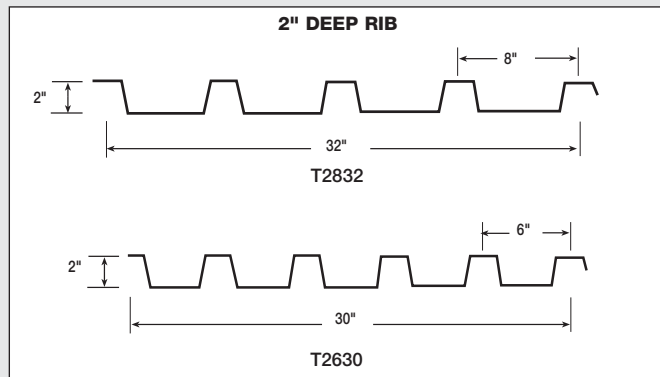
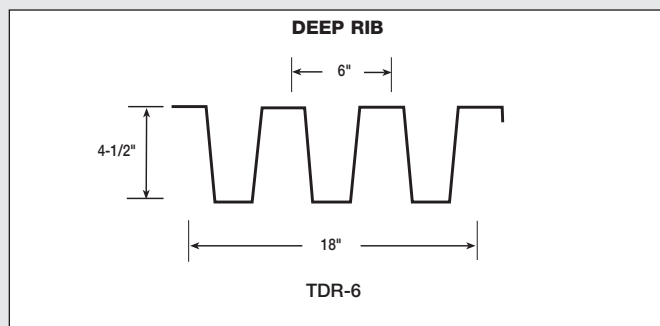
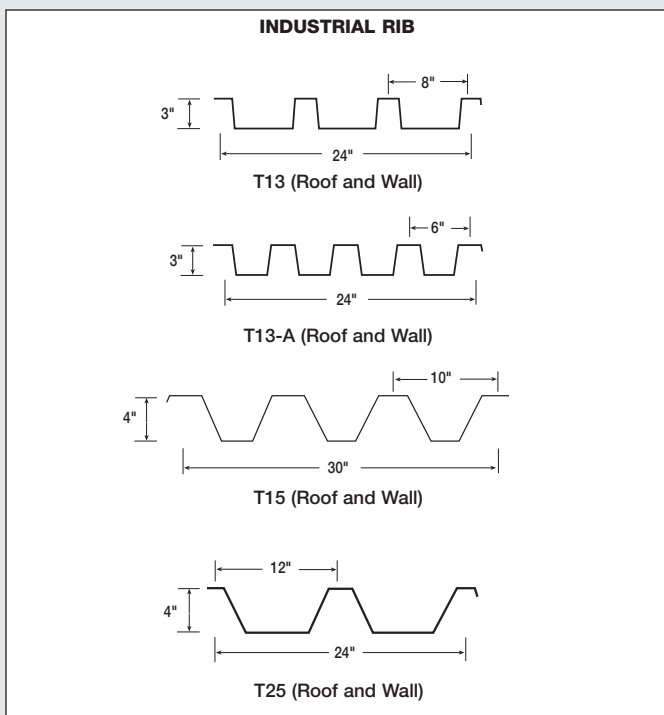


COMMERCIAL/INDUSTRIAL PRODUCTS

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: 24ga standard, 22ga through 18ga 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
- Finishes: Kynar 500® (PVDF), standard; optional: multi-pass Kynar 500, Marblique, Plastisol, and polyester
- Contact Metal Sales for load-carrying capabilities

Other profiles are available. Please inquire.



Wilsonville Training Center/Wilsonville, OR



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" rib height
- Optional material: stainless steel, aluminum, and copper
- Gauges: 24ga standard, 22ga through 18ga optional
- Custom capabilities include:
 - Perforated panels for wind screens and liner panels
- Finishes: Kynar 500® (PVDF), standard; optional: multi-pass Kynar 500, Marblique, Plastisol, and polyester
- Contact Metal Sales for load-carrying capabilities and testing

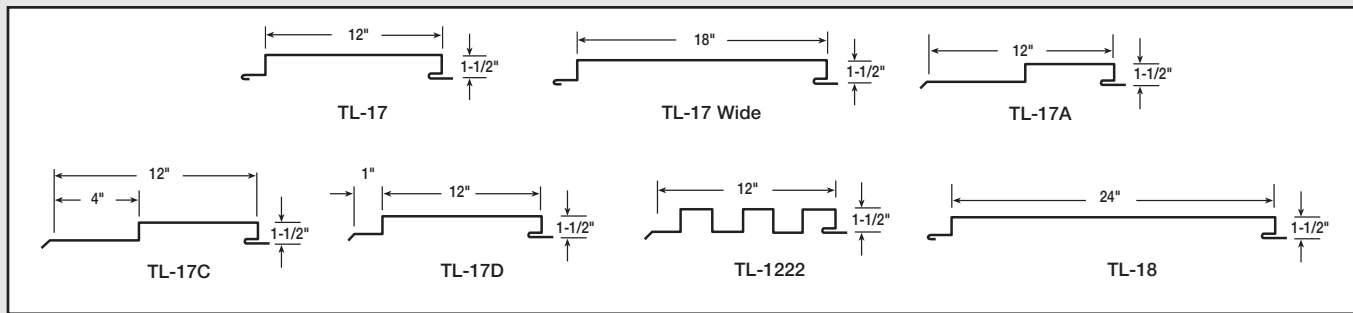
Other profiles are available. Please inquire.



Fire Station/El Dorado Hills, CA



Stillwater Public Works/Stillwater, MN



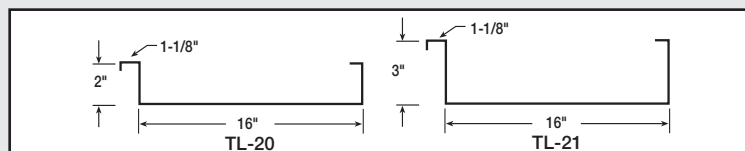
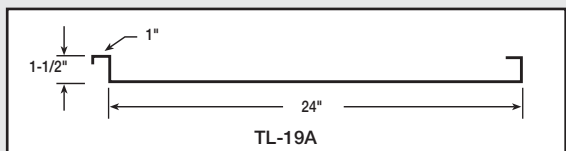
Interior Liner Series

- 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: 24ga standard, 22ga through 18ga optional
- Custom capabilities include:
 - Perforated panels for wind screens and liner panels
 - Tapering
- Finishes: Kynar 500® (PVDF), standard; optional: multi-pass Kynar 500, Marblique, Plastisol, polyester
- Contact Metal Sales for load-carrying capabilities and testing

Other profiles are available. Please inquire.



Rodeo Arena/City of Industry, CA



COMMERCIAL/INDUSTRIAL PRODUCTS

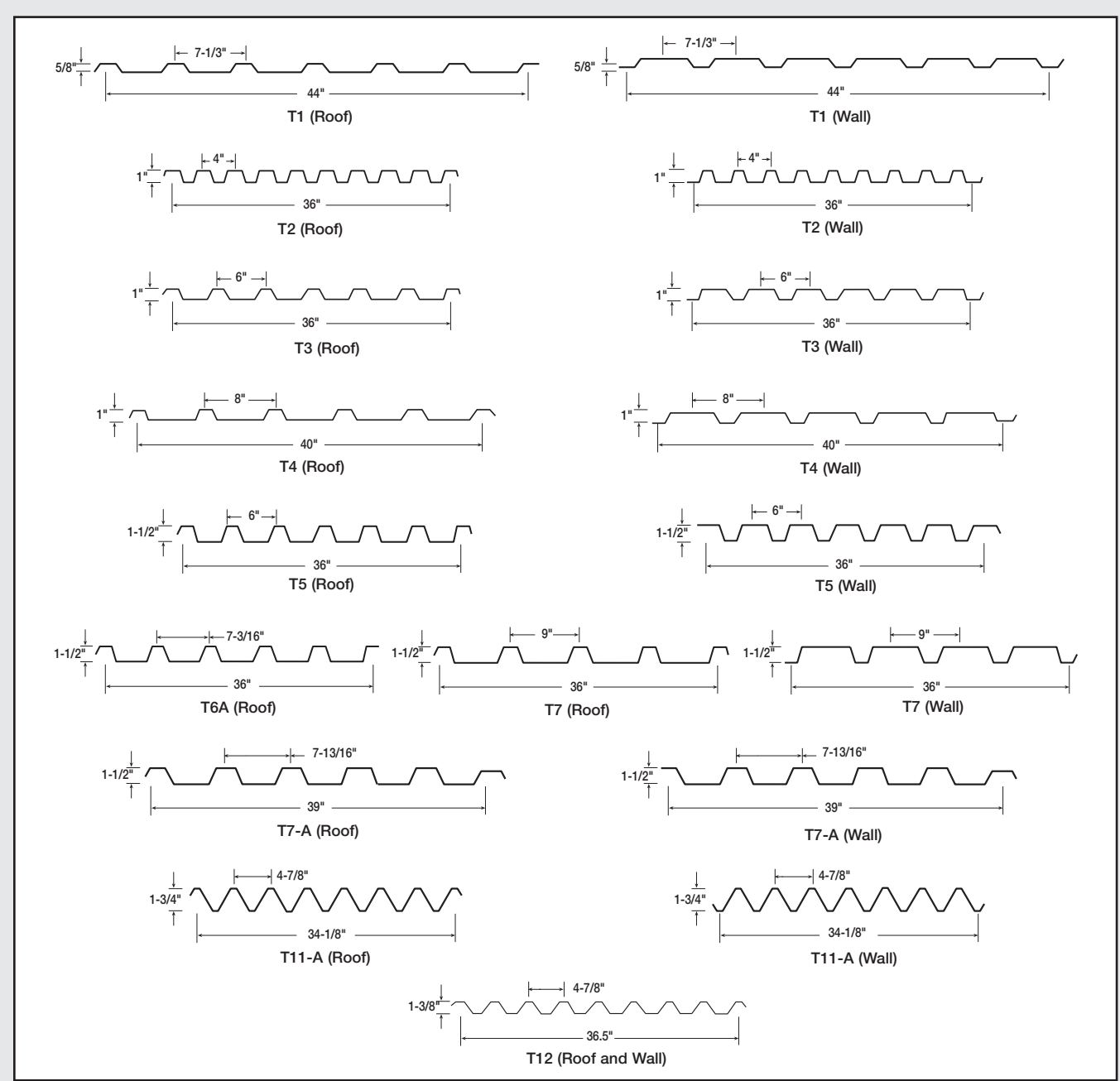


Friedman Home Improvement/Santa Rosa, CA

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: 24ga standard, 22ga through 18ga optional
- Minimum roof slope: 1:12
- Finishes: Kynar 500® (PVDF), standard; optional: multi-pass Kynar 500, Marblique, Plastisol, and polyester
- Contact Metal Sales for load-carrying capabilities

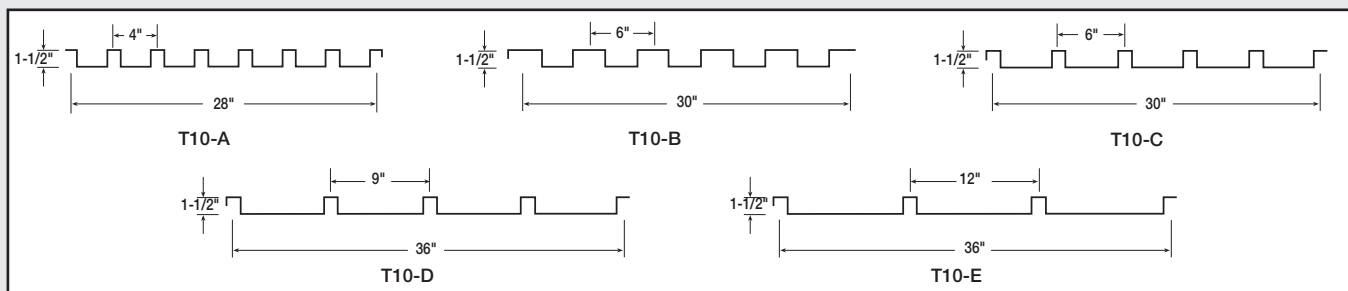
Other profiles are available. Please inquire.





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: 24ga standard, 22ga through 18ga optional
 - Custom capabilities include:
 - Crimp curving; convex, concave, or "S" curves
 - Perforated panels for wind screens and liner panels
 - Finishes: Kynar 500® (PVDF), standard; optional: multi-pass Kynar 500, Marblique, Plastisol, and polyester
 - Contact Metal Sales for load-carrying capabilities
- Other profiles are available. Please inquire.*



Exotic Metals

In addition to the wide variety of profiles and colors available, Metal Sales also offers unique materials and metal finishes (perforation available for all of these items).

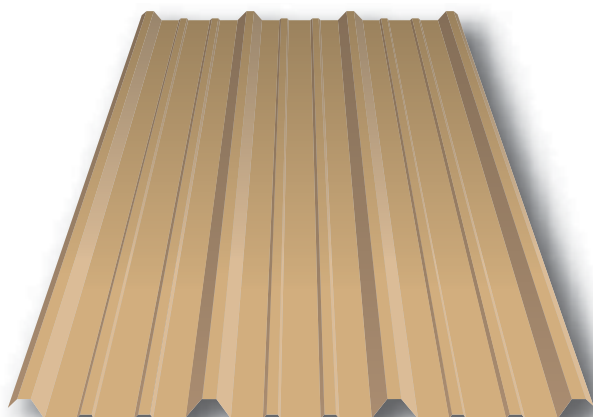
- Copper
- Stainless Steel
- Zinc and Aluminum
- Lead Coated Copper
- Copper Plated Stainless Steel
- Contact Metal Sales for more information

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, Magna-Loc, Clip-Loc, 7/8" Corrugated, IC72-Panel, as well as selected Exposed Fastened, Industrial Rib, and Verti-Line profiles. Contact your Metal Sales representative for more information.



METAL BUILDING PRODUCTS

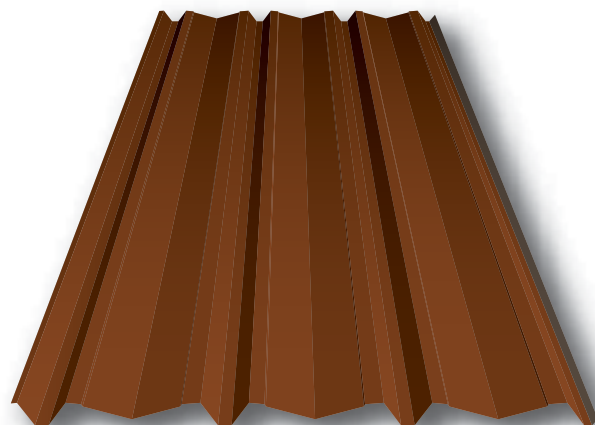
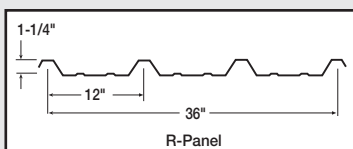
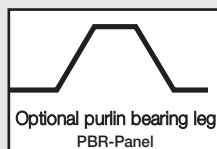


R-Panel/PBR-Panel

- Exposed direct-fastened panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 12" centers
- 1-1/4" rib height
- Gauges: 26ga and 24ga standard, 22ga optional
- Minimum roof slope: 1:12 (PBR-Panel only)
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45°, Kynar 500® (PVDF), 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 E455-98 Diaphragm Test
- Miami-Dade County Approved (NOA 03-1210.03, 03-0430.08) (24ga roof and wall)
- 2007 FBC Approved
R-Panel 9482.3 PBR-Panel 7490.3

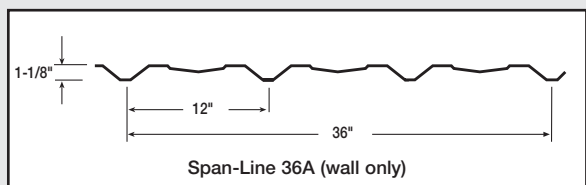


Span-Line® 36A

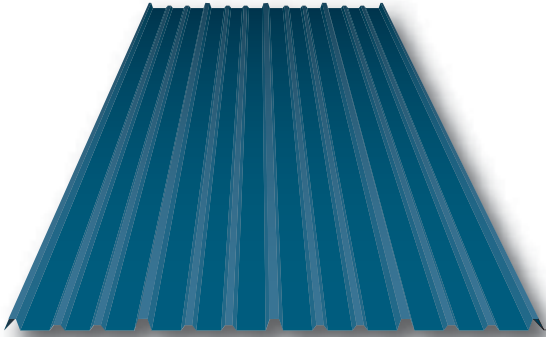
- Exposed direct-fastened wall panel
- 36" panel coverage
- Gauges: 26ga and 24ga standard, 22ga optional
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45°, Kynar 500® (PVDF), and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

TESTING

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



METAL BUILDING PRODUCTS



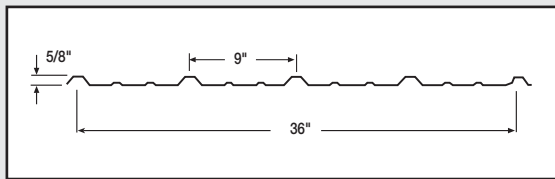
Pro-Panel II®

- Exposed direct-fastened, low profile panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 9" centers
- 5/8" rib height
- Gauges: 29ga and 26ga 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
- Miami-Dade County approved (Wall Application) (NOA 03-0528.08)
- ASTM E455 Diaphragm Test
- 2007 FBC Approved 8131.3



Classic Rib®

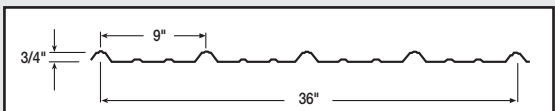
- Exposed direct-fastened, low profile panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 9" centers
- 3/4" belltop rib height
- Gauges: 29ga and 26ga standard
- Minimum roof slope: 3:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45®, Kynar 500®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



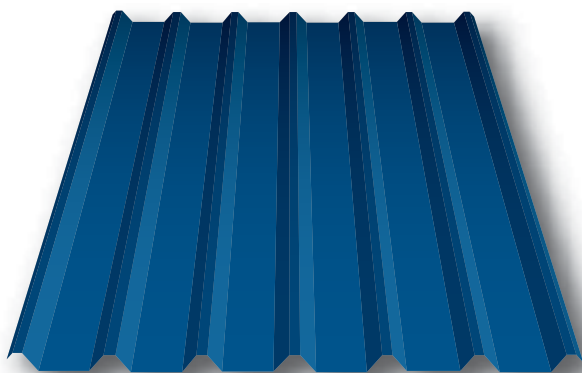
TESTING

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E-564-95 Diaphragm Test
- UL 580 Class 90 Wind Uplift Const. No. 560, 584
- Miami-Dade County Approved (NOA 07-0731.08)
- Texas Windstorm Evaluation RC-161
- 2007 FBC Approved

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



METAL BUILDING PRODUCTS

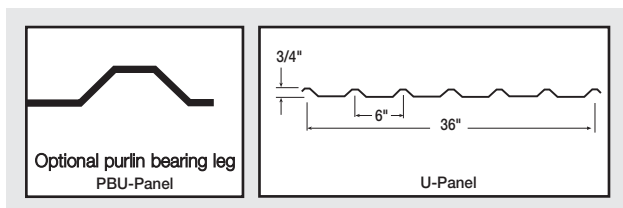


U-Panel/PBU-Panel

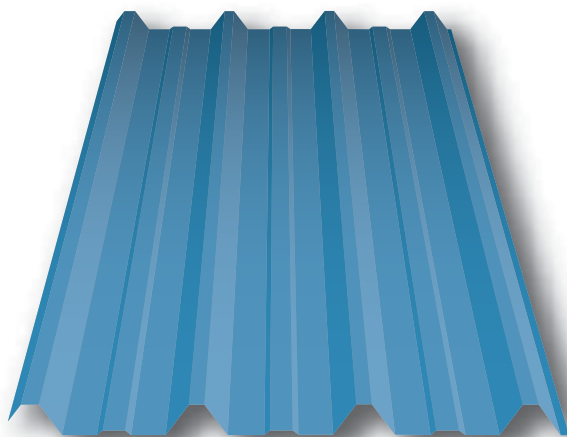
- Exposed direct-fastened panel for roof and wall applications
- 36" panel coverage, 3/4" rib height
- Trapezoidal rib on 6" centers
- Gauges: 26ga and 24ga standard, 22ga optional
- Minimum roof slope: 1:12
- Applies over opening framing or solid substrate
- Finishes: MS Colorfast45®, Kynar 500® (PVDF),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



Larimer County Fairgrounds/Loveland, CO

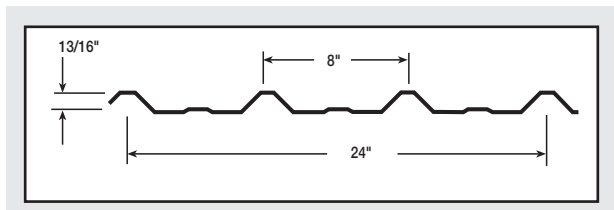


Delta Rib

- Exposed direct-fastened panel for roof and wall applications
- 24" panel coverage
- Trapezoidal rib on 8" centers
- 13/16" rib height
- Gauges: 29ga and 26ga 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



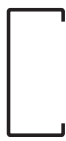
Residence/Kettle Falls, WA

SECONDARY FRAMING MEMBERS

Metal Sales' structural sections are manufactured using ASTM A 1011 grade 50, class 2 (55 KSI minimum yield) with a red oxide finish or ASTM A 653 grade 50, class 2 (55 KSI min yield) with a G90 galvanized finish. Cee or Zee shapes with web depths of 4", 6", 8", 9", and 12" in a variety of symmetrical or unsymmetrical flanges. Special shape single or double slope, high side or low side eave struts are available. A variety of angles, channels, and hat sections are also available, please inquire. Contact Metal Sales for load-carrying capabilities.



CEES and ZEES



Cee



Standard Zee



LGSZee

Eave Struts



Single Slope

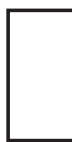


Double Slope



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.

GENERAL INFORMATION

Materials and Paint Systems

Materials

Unpainted materials shall conform to ASTM A792 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 A446 (or A653) and be hot dipped galvanized with a substrate coating as per ASTM A525 (or A924).

Galvalume® conforming to ASTM A792 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 pretreatments, primers, resins, and pigments that can meet your design and performance requirements.

PVDF (Fluorocarbon)

This paint system combines ceramic pigmentation with polyvinylidene fluoride for a superior, long-lasting performance. PVDF finishes are respected for their durability, resistance to chalking and fading, chemical resistance, and color retention. Please note: PVDF finishes meet both Kynar 500/Hylar 5000 specifications; Kynar 500 and Hylar 5000 are produced under license from Atofina and Ausimont, respectively. See color chart for available colors.

MS Colorfast45®

This is a thermoset coating system composed of polyester resin which has been modified with a silicone resin. The MS Colorfast45® finishes offer good protection to the elements with special consideration to chalk and fade resistance, durability, and chemical resistance. See color chart 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 coating or finish. When applying, use in small inconspicuous and separate areas. 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 with metallic coatings as it is impossible to match one metallic coating to another.

To minimize the possible visual effects of the differences in paint and its application, an entire job should be painted at one time, from one batch of paint at one coater, using the same application equipment. Additionally, fabricated panels, flat sheet, and flashings manufactured from coil coated materials should be oriented in the same direction for installation.

Trims and Accessories

Metal Sales manufactures a wide selection of standard trims and can even produce custom trims to fit the needs of any project. The 26-gauge standard trims are produced in an MS Colorfast45™ paint system or a PVDF (Kynar 500, Hylar 5000) paint system. The 24-gauge standard trims are produced in a PVDF (Kynar 500/ Hylar 5000) paint system. See color chart for available colors. Check our Product Manual for shape descriptions of standard trims. Please inquire with your nearest Metal Sales sales office location.

Pick The Winner!

A First Place Metal Finish

MS Colorfast45™

MS Colorfast45™ runs much deeper than a surface coat; its superior performance is a result of a multilayered thermoset coating system; each component layer providing a unique performance characteristic.

Topcoat | Premium SMP for color durability, gloss retention and hardness, resists atmospheric staining

Primer | Polyurethane OPTIMA HP, UV and moisture resistant, key component to product longevity

Chromate Rinse | Acts as a sealer providing additional corrosion protection

Pretreatment | Promotes adhesion, moisture and corrosion resistance

Galvanized or Galvalume® | Metallic coating barrier protection on base steel, inhibits corrosion

Bare Steel | Mill certified meeting ASTM standards

Galvanized or Galvalume®

Pretreatment

Chromate Rinse

Primer

Back coat | Finish coat on backside, covers primer and insures consistent color

COOL ROOFING

Reduce building energy use by up to 50% with select MS Colorfast45™ colors

Metal Sales recognizes that architects and consumers are becoming increasingly concerned with ways of making their building project more energy efficient. Many of Metal Sales' MS Colorfast45™ colors are Energy Star certified. They use special pigments for solar reflectance to meet Energy Star® guidelines. These Metal Sales roof panels are "Eligible Building Envelope Components" that qualify for tax credits for consumers and LEED (Leadership in Energy and Environmental Design) credits for architects. For complete details and certificates visit our website: www.metalsales.us.com

45Year
Durability
Warranty

The Best Defense

Against Chalking and Fading

Kynar 500

With excellent exterior durability this PVDF steel panel color coating will keep you in the game right into overtime.

Kynar 500 coated panels from Metal Sales provide such an outstanding defense against ultraviolet radiation that they are warranted for 35 years against chalking and fading.

This exceptional color and gloss retention is not possible with any other coating available today. Also warranted against blistering, cracking and peeling for 45 years, Kynar 500 coating is architect preferred and your best defense against the rigors of nature and atmospheric pollution.

35Year
COLOR PERFORMANCE
Warranty

Metal Sales Manufacturing Locations



LONGMONT, COLORADO

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

JACKSONVILLE, FLORIDA

7110 Stuart Ave. • 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 Rd. • 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 Blvd. • Rogers, MN 55374
800.328.9316 • 800.938.9119/Fax

ANTIOCH, TENNESSEE

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

SPOKANE, WASHINGTON

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

KENT, WASHINGTON

20213 84th Ave. 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

ROCK ISLAND, ILLINOIS

8111 29th Street West • Rock Island, IL 61201
800.747.1206 • 309/787.1833/Fax

ORWIGSBURG, PENNSYLVANIA

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

TEMPLE, TEXAS

3838 N. General Bruce Dr. • 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 Ave. • Fontana, CA 92335
800.782.7953 • 909.829.9083/Fax

ANCHORAGE, ALASKA

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

BAY CITY, MICHIGAN

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

DETROIT LAKES, MINNESOTA

1435 Egret Ave. • 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

metal sales
manufacturing corporation



Memberships and Affiliations

- Light Gage Structural Institute
- Metal Construction Association
- American Iron and Steel Institute
- National Coil Coaters Association
- Construction Specification Institute
- National Frame Builders Association
- National Roofing Contractors Association
- ARCAT
- Factory Mutual
- Energy Star Partner
- Chamber of Commerce
- Underwriters Laboratory
- ASTM (American Society for Testing and Materials)
- LEED (Leadership in Energy and Environmental Design)