

# Metal Sales

Metal Building Components, Sales & Service



800.406.7387  
[www.metalsales.us.com](http://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 21 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 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, industrial and agricultural 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, Aluminum, Stainless Steel, and Copper
- Over 75 profiles available with matching trim and accessories
- All colors meet or exceed steep slope ENERGY STAR requirements and over 100 colors are also LEED compliant
- 21 convenient locations nationwide, including Alaska
- Ability to ship worldwide
- 45 year paint warranties
- Panel testing including FM-4471, UL 580, ASTM E 1592, and approvals including Miami-Dade County and Florida Building Code (FBC) 2010
- 20 year weather tightness warranty available (in selected profiles)
- Curving capabilities available – (see page 3)

*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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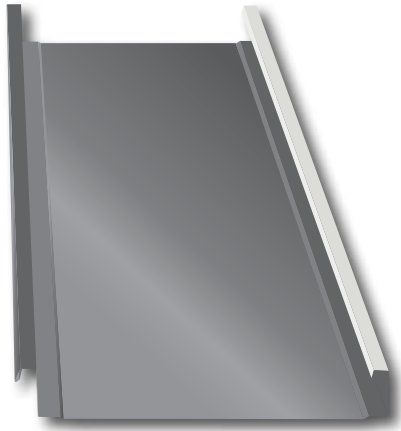
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## Structural Standing Seam Products

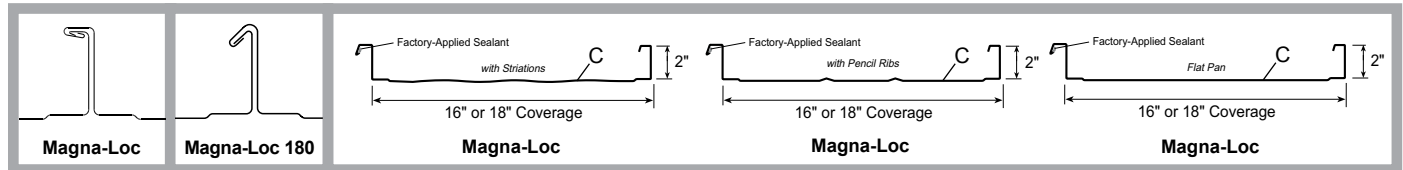


### Magna-Loc/Magna-Loc 180

- 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 AND APPROVALS

- 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 Air Leakage and ASTM E 1646 Water Penetration
- 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
- 2010 FBC Approved
  - Magna-Loc 24 ga. over 16 ga. Purlins 10999.5
  - Magna-Loc 24 ga. over 5/8" Plywood 11560.5
  - Magna-Loc 24 ga. over 22 ga. Metal Deck 11560.6
  - Magna-Loc 0.032" Aluminum over 22 ga. Metal Deck 10999.6
  - Magna-Loc 180 24 ga. over 16 ga. Purlins 10999.2



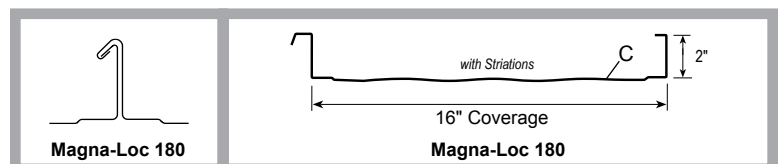
### Curved Magna-Loc 180

- 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



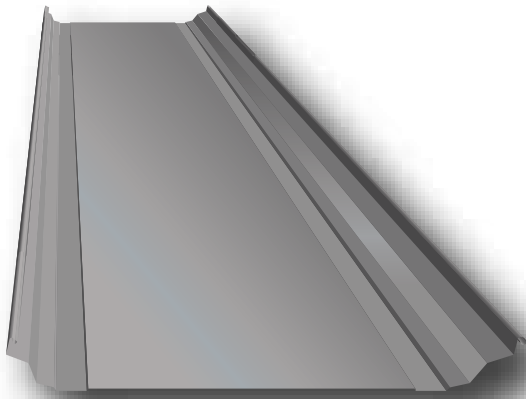
#### TESTING AND APPROVALS

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





## Structural Standing Seam Products



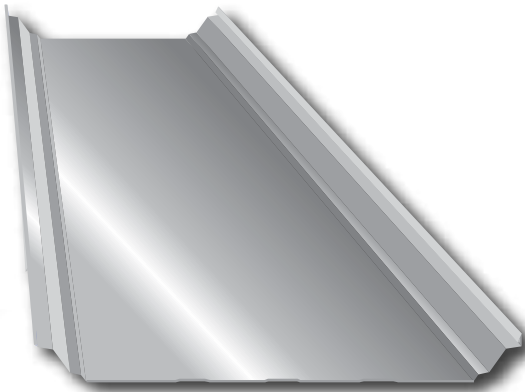
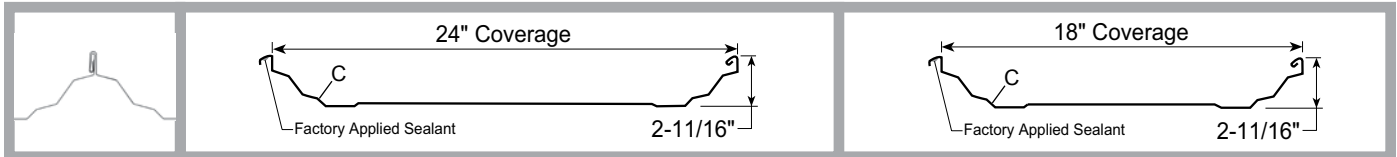
### Seam-Loc 24®

- 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 AND APPROVALS

- 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 Leakage
- ASTM E 1646 Water Penetration
- UL 580, Class 90 Wind Uplift, Construction #197 and 197A
- ASTM E 1592 Roof Uplift
- 2010 FBC Approved
  - 24" wide over 16 ga. Purlins 10999.8
  - 24" wide (with clamps) over 16 ga. Purlins 10999.9



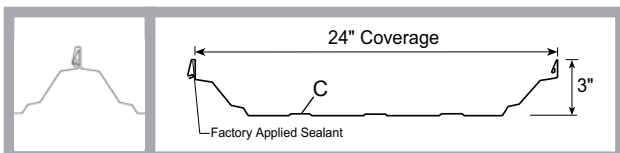
### Snap-Loc 24

- 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 AND APPROVALS

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



## Structural Standing Seam Products



### Vertical Seam

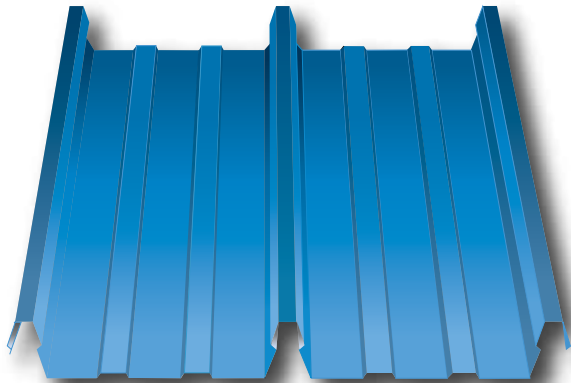
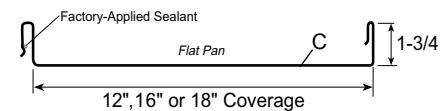
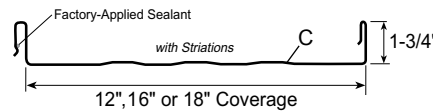
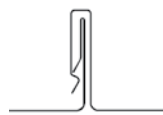
- Architectural/structural standing seam roof panel
- 12", 16", or 18" panel coverage, 1-3/4" rib height
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Snap-together panel system with factory-applied side lap sealant
- Minimum roof slope over open framing 3:12
- Minimum roof slope over solid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

#### TESTING AND APPROVALS

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680 Air Leakage
- ASTM E 1646 Water Penetration
- Miami-Dade County Approved (NOA 10-0114.04)
- 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
- 2010 FBC Approved
  - 26 ga. over 1/2" Plywood 11560.10
  - 24 ga. over 1/2" Plywood 11560.9
  - 0.032" Aluminum over 7/16" OSB 14645.6



Vertical Seam Plus  
(Please Inquire)

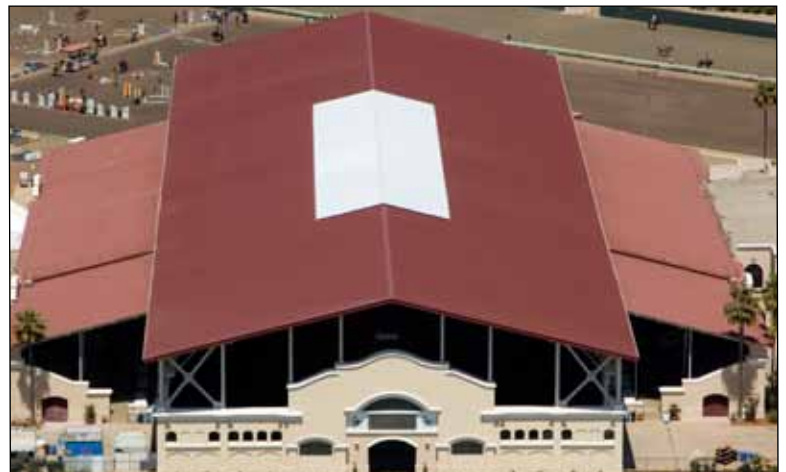
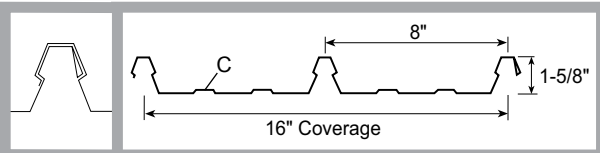


### Clip-Loc

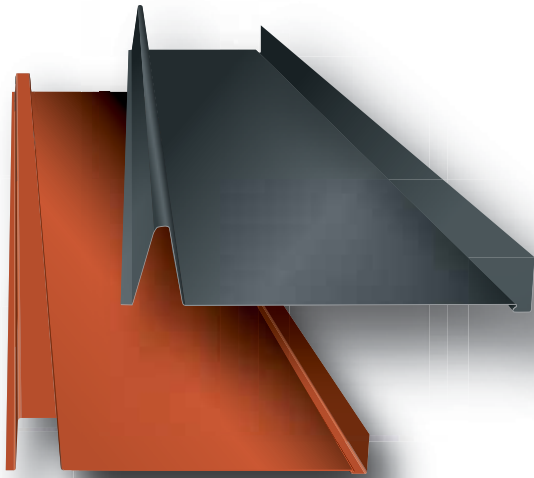
- Architectural/structural integral standing rib roof system
- Snap-together panel system
- 16" panel coverage, major rib: 8" centers, 1-5/8" rib height
- Gauges: 26 ga., 24 ga. standard, and 22 ga. optional
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Concealed clip designed 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 AND APPROVALS

- UL 263, Fire Resistance Rating
- UL 2218 Class 4 Impact Resistance
- UL 790 Class A Fire Resistance Rating
- ASTM E 1680 Air Leakage
- ASTM E 1646 Water Penetration
- ASTM E 1592 Roof Uplift
- UL 580, Class A Wind Uplift, Construction #586 and 586A
- UL 1897, Uplift Tests for Roof Covering Systems



## Pro-Loc I, II

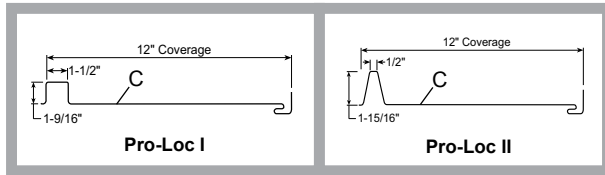


- Architectural standing seam roof panel
- Minimum roof slope: 3:12
- 12" panel coverage
- Pro-Loc I: 1-9/16" box rib height
- Pro-Loc II: 1-15/16" trapezoidal rib height
- Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- Concealed clip fastened system designed for thermal movement
- Applies over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



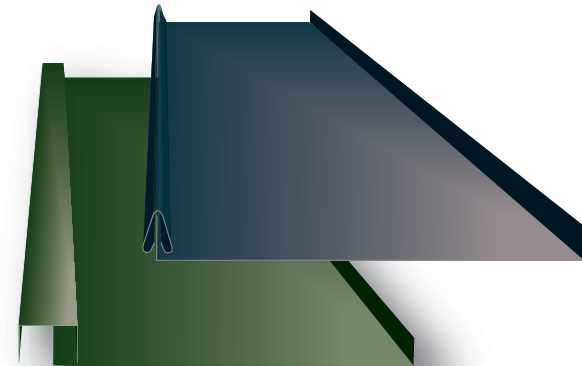
### TESTING AND APPROVALS

- 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



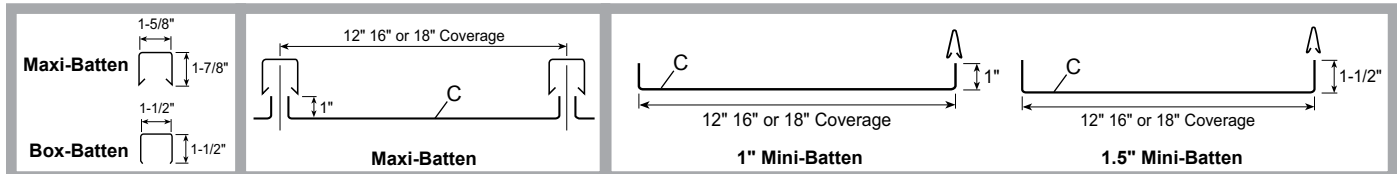
## Maxi-Batten/Mini-Batten

- 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-Batten offers 1-1/2" x 1-1/2" 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



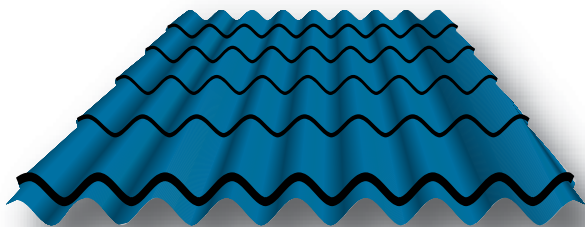
### TESTING AND APPROVALS

- UL 263, Fire Resistance Rating
- UL 2218, Class 4 Impact Resistance
- ASTM E 283 Air Leakage
- 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)





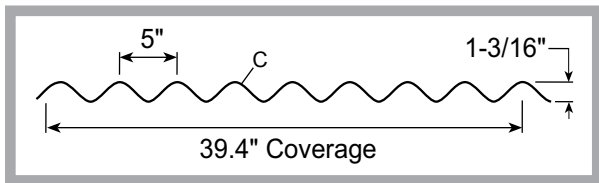
## Stile



- 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

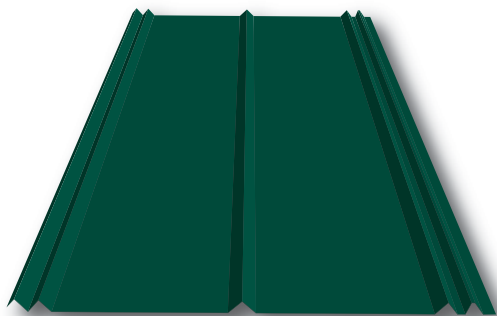
### TESTING AND APPROVALS

- 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
- 2010 FBC Approved
  - 26 ga. over 1/2" Plywood 11560.7
  - 26 ga. over 5/8" Plywood 11560.8



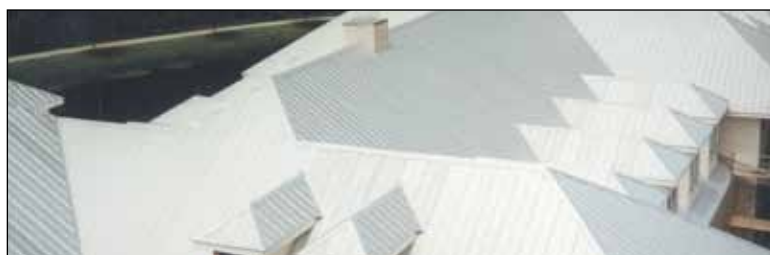
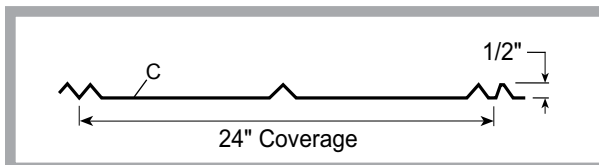
## 5V-Crimp

- 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



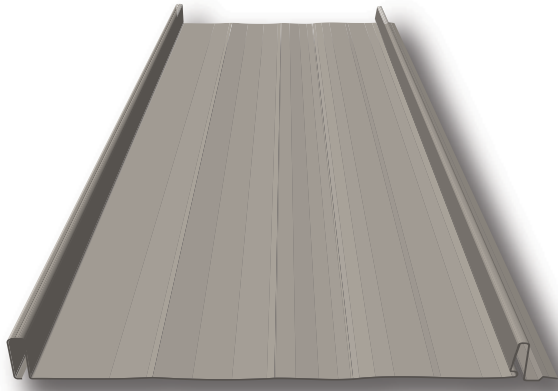
### TESTING AND APPROVALS

- 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
- 2010 FBC Approved
  - 26 ga. over 5/8" Plywood 14645.3, 14645.4
  - 26 ga. over 1/2" Plywood 14645.2
  - 0.032" Aluminum over 7/16" OSB 11560.1



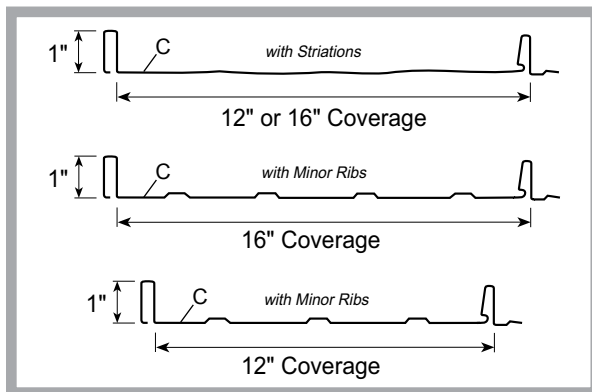
## Image II

- 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 AND APPROVALS

- 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
- 2010 FBC Approved
- 26 ga. over 5/8" Plywood 11560.3
- 26 ga. over 1/2" Plywood 11560.4
- 26 ga. over 7/16" OSB 14645.10
- 0.032" Aluminum over 7/16" OSB 11560.2



## 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

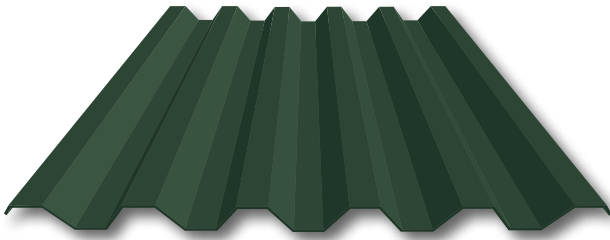


# DECRA®

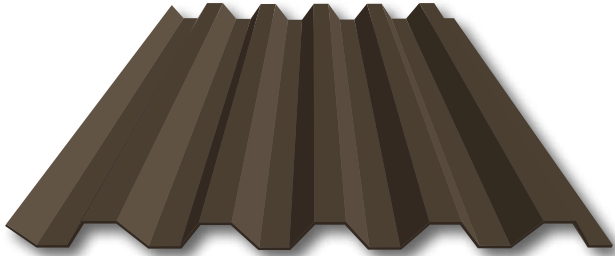
Stone Coated Steel Roofing Systems



Roof

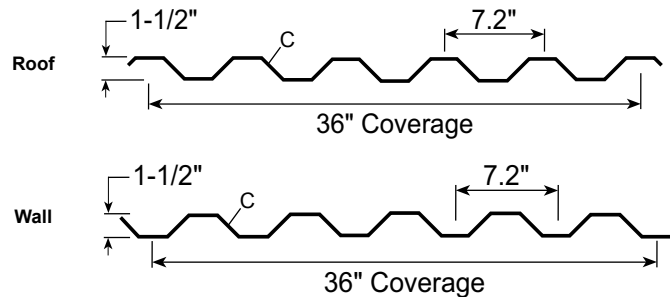


Wall



## IC72-Panel

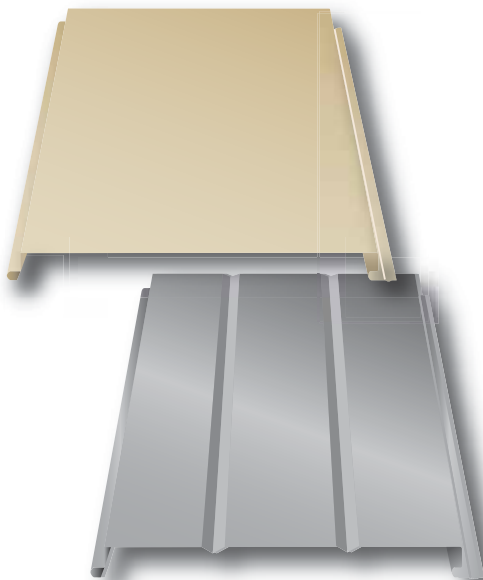
- Exposed direct-fastened industrial panel for roof and wall applications
- 36" panel coverage, minimum roof slope: 1:12
- 1-1/2" rib height at 7.2" centers
- Gauges: 24 ga. standard, 22 ga. and 20 ga. optional
- Applies over open framing or solid substrate
- Finishes: PVDF (Kynar 500®) and Acrylic Coated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



### TESTING AND APPROVALS

- 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 Diaphragm Test
- ASTM E 1592 Roof Uplift
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 283 Air Leakage and ASTM E 331 Water Penetration
- ASTM E 1680 Air Leakage
- ASTM E 1646 Water Penetration

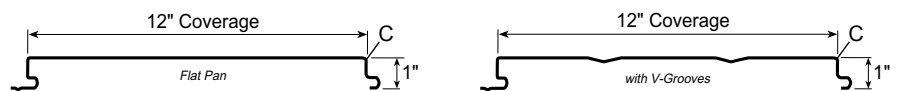
Flat Pan



With V-Grooves

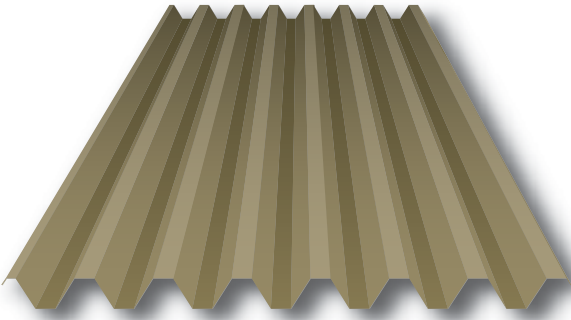
## Soffit Panel

- 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



### TESTING AND APPROVALS

- ASTM E 283 Air Infiltration
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- 2010 FBC Approved
- 24 ga. over 16 ga. Purlins 9482.5

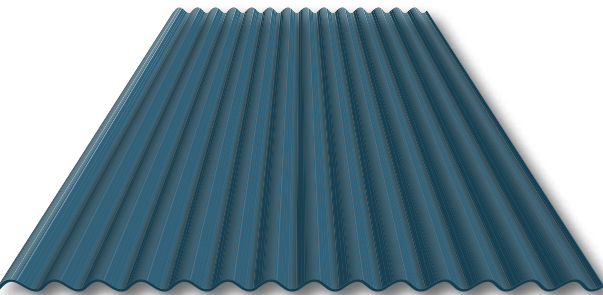
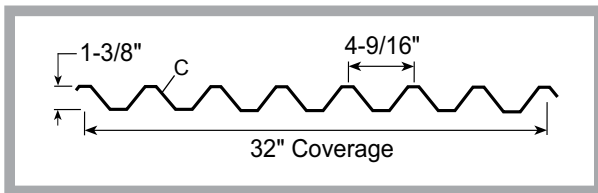


## V-Line 32

- 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<sup>®</sup>, PVDF (Kynar 500<sup>®</sup>) and Acrylic Coated Galvalume<sup>®</sup>
- Contact Metal Sales for load-carrying capabilities

### TESTING AND APPROVALS

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

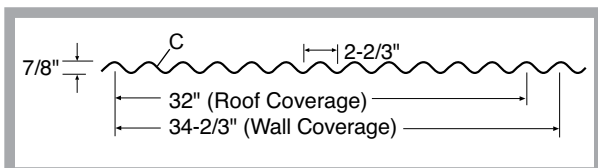


## 7/8" Corrugated

- 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. standard, 22 ga. and 20 ga. optional
- Optional material: stainless steel, aluminum, copper, and weathering steel
- Minimum roof slope: 1:12
- Applies over open framing or solid substrate
- Finishes: MS Colorfast45<sup>®</sup>, PVDF (Kynar 500<sup>®</sup>), and Acrylic Coated Galvalume<sup>®</sup>
- Contact Metal Sales for load-carrying capabilities

### TESTING AND APPROVALS

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 1592 Roof Uplift Capacity
- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 1680 Air Leakage
- ASTM E 1646 Water Penetration
- UL 580, Class 90 Wind Uplift, Construction #649
- 2010 FBC Approved
- 24 ga. over 16 ga. Purlins 10999.1    24 ga. over 16 ga. Girts 9482.1

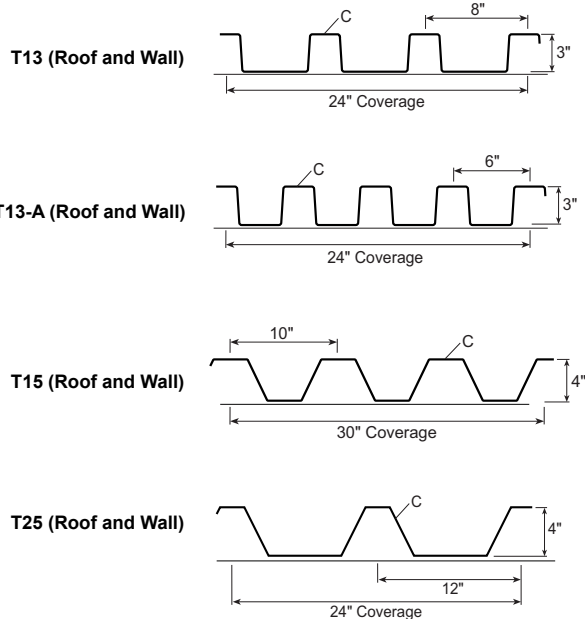


# Industrial Rib/Deep Rib Series

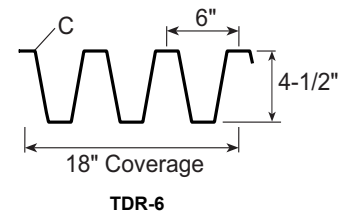
- Exposed direct-fastened panel for roof and wall applications
  - Applies over open framing or solid substrate
  - Various panel coverages
  - 2", 3", 4", and 4-1/2" rib heights
  - Trapezoidal rib on various centers
  - Optional material: stainless steel, aluminum, and copper
  - Gauges: 24 ga. standard, 22 ga. 20 ga. and 18 ga. optional
  - Minimum roof slope: 1:12
  - Custom capabilities include:
    - 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.**



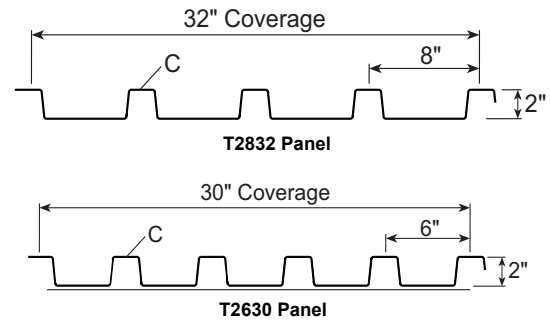
## INDUSTRIAL RIB



## DEEP RIB

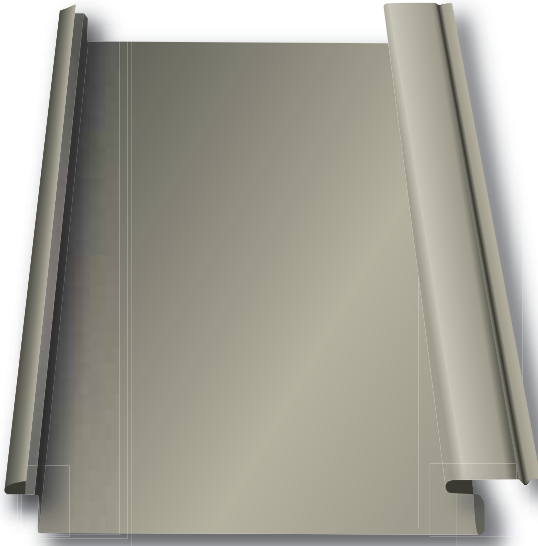


## 2" DEEP RIB





# Flush Face Series

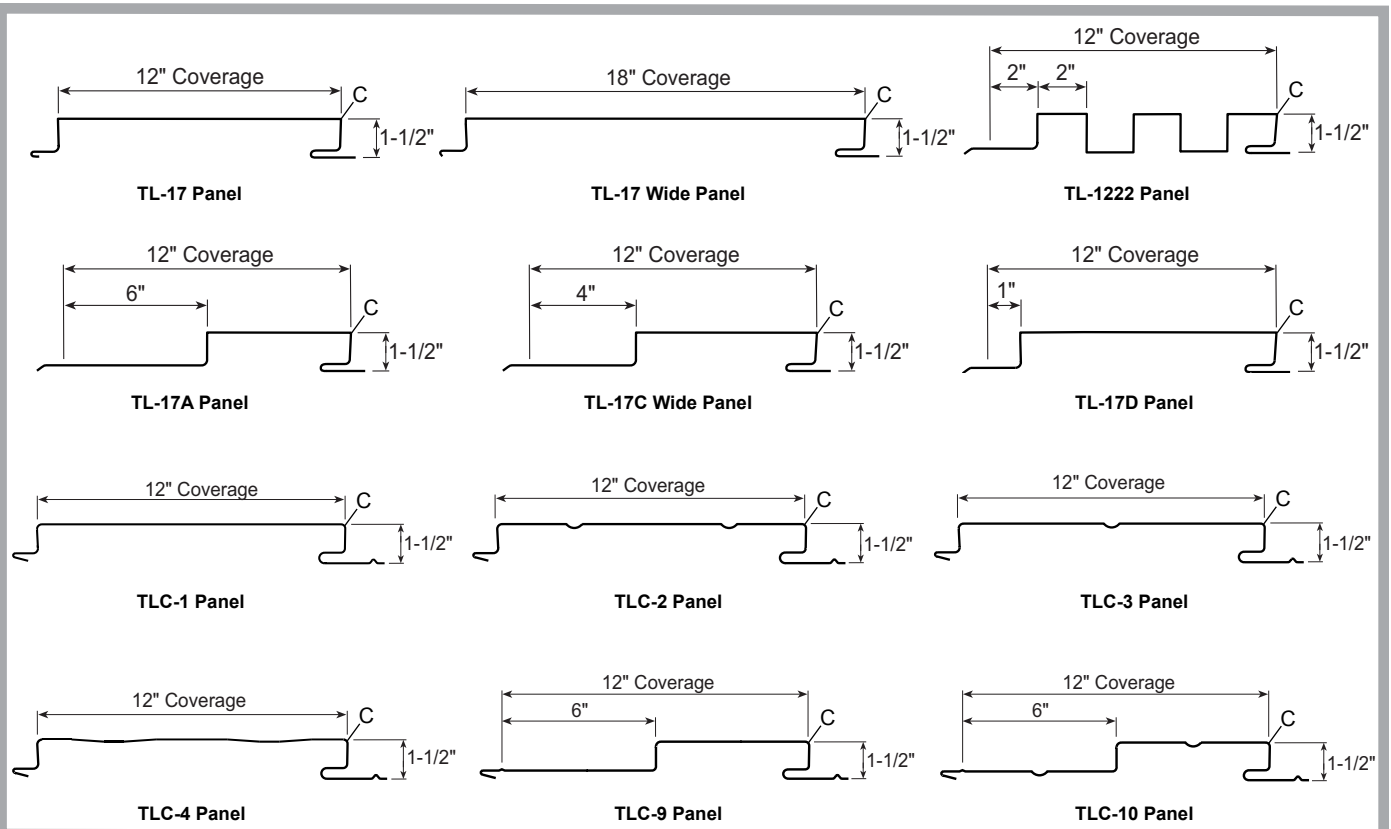


- Concealed direct-fastened panel for wall, soffit, fascia, or liner applications
  - Applies over open framing or solid substrate
  - 12", 18", and 24" panel coverage
  - 1-1/2" panel depth
  - 22'-0" maximum length
  - Optional material: stainless steel, aluminum, and copper
  - Gauges: 24 ga. standard, 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
- Other profiles are available. Please inquire.**



## TESTING AND APPROVALS

- ASTM E 283 Air Leakage (TLC Panels)
- ASTM E 331 Water Penetration (TLC Panels)
- ASTM E 330 Uniform Static Air Pressure Difference (TLC Panels)



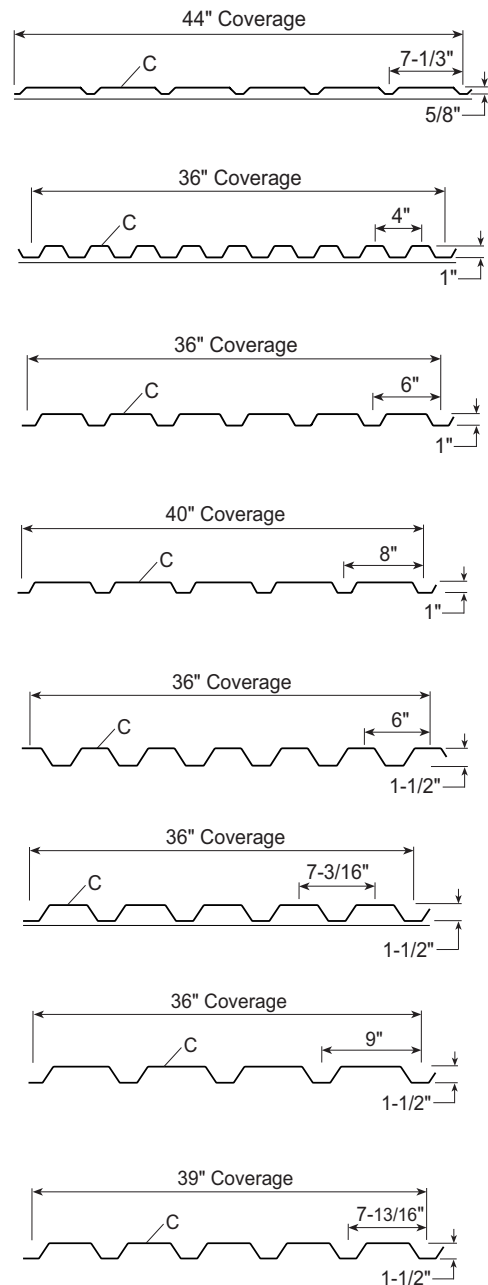
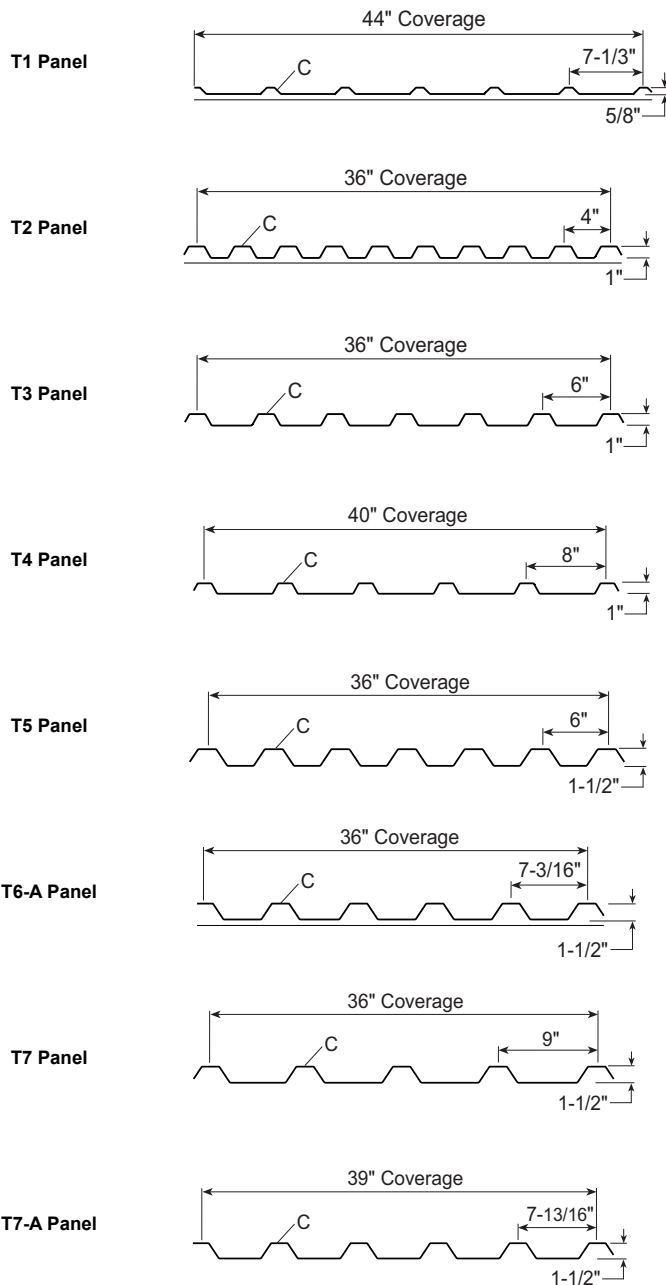


## Exposed Fastened Series

- 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.**

### ROOF PROFILES

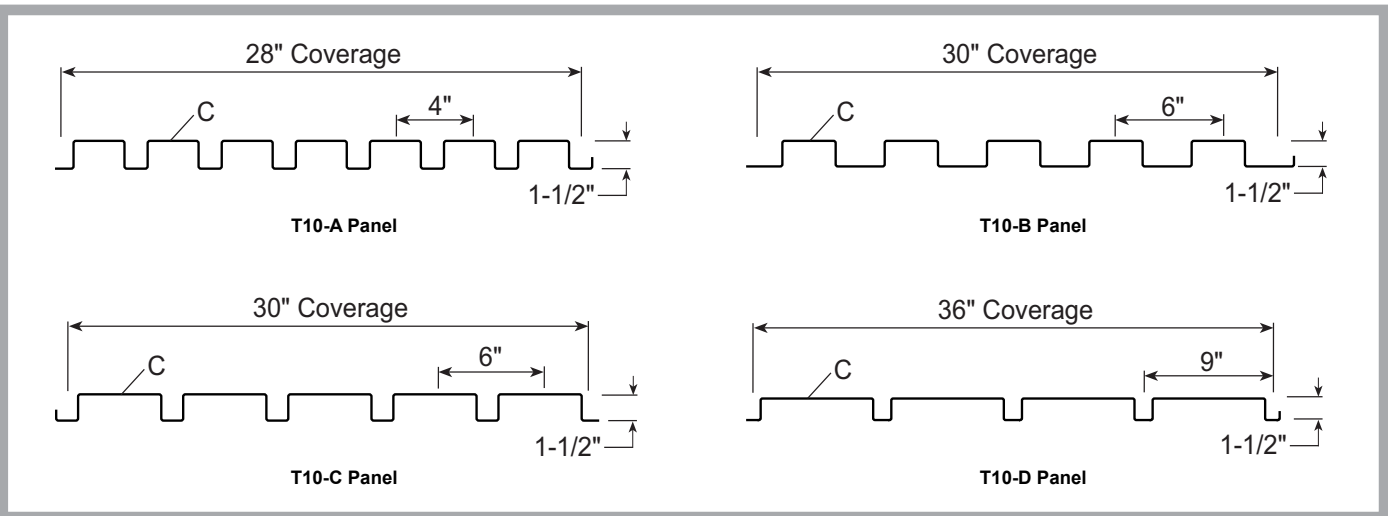
### WALL PROFILES





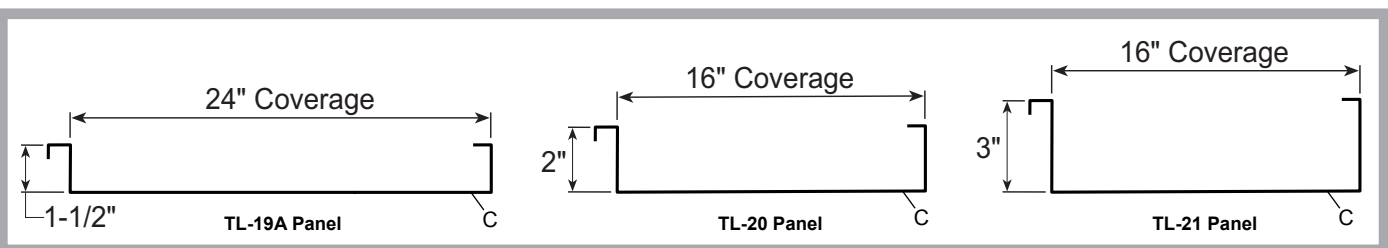
## Verti-Line Series

- 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:
    - 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.**



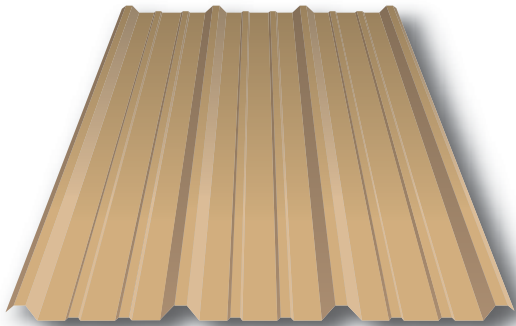
## Interior Liner Series

- 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
- Other profiles are available. Please inquire.**





## Metal Building Products

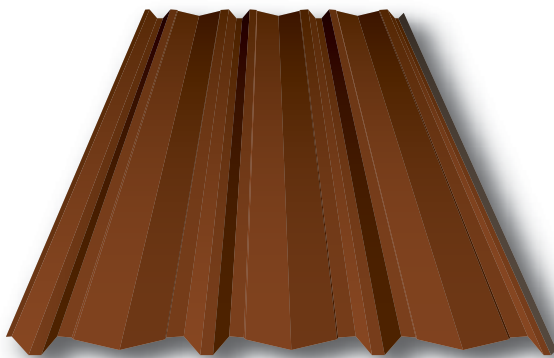
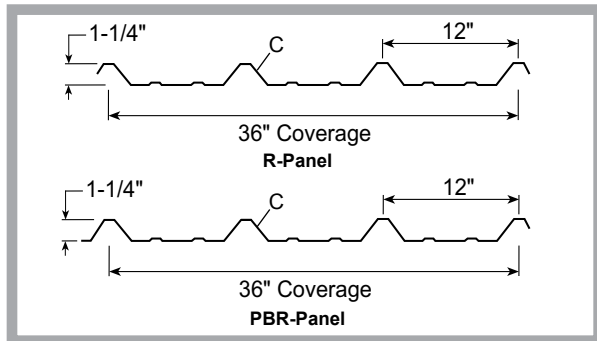


### R-Panel/PBR-Panel

- Exposed direct-fastened panel for roof and wall applications
- 36" panel coverage
- Trapezoidal rib on 12" centers
- 1-1/4" rib height
- Gauges: 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 AND APPROVALS

- 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 10-0427.04,09-0113.01)(24 ga. roof and wall)
- Texas Windstorm Evaluation RC-198
- 2010 FBC Approved
- R-Panel 26 ga. over 16 ga. Purlins 10999.7
- R-Panel 26 ga. over 16 ga. Girts 9482.4
- R-Panel 26 ga. over 1/2" Plywood 14645.11
- PBR-Panel 26 ga. over 16 ga. Purlins 10999.7

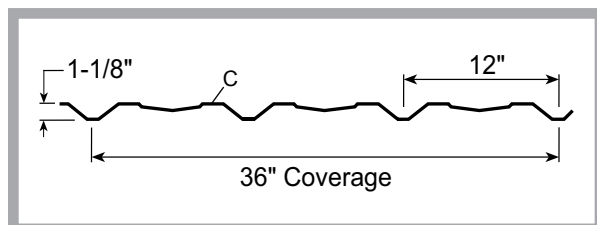


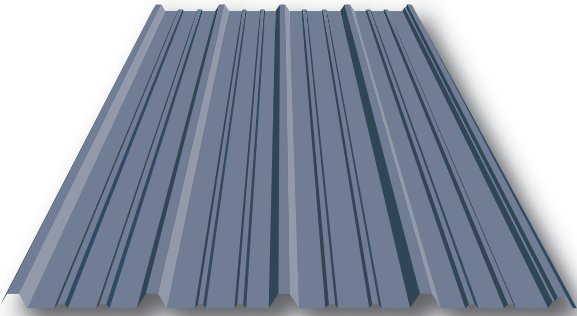
### Span-Line 36A

- 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 AND APPROVALS

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E 330 Uniform Static Air Pressure Difference
- 2010 FBC Approved
- 26 ga. over 16 ga. Girts 9482.6



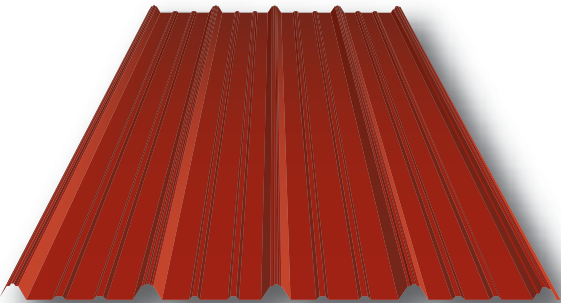
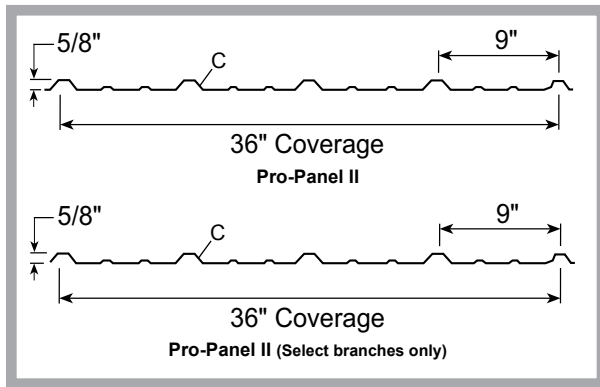


## Pro-Panel II®

- 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 AND APPROVALS

- UL 2218, Class 4 Impact Resistance
- UL 790, Class A Fire Resistance Rating
- ASTM E 455 Diaphragm Test
- 2010 FBC Approved
- 29 ga. over 1/2" Plywood 8131.3, 14645.12

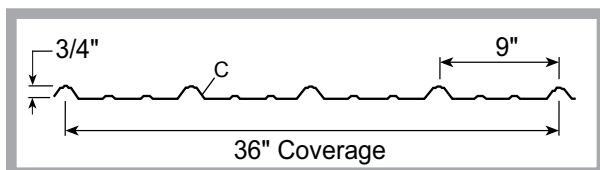


## Classic Rib

- 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

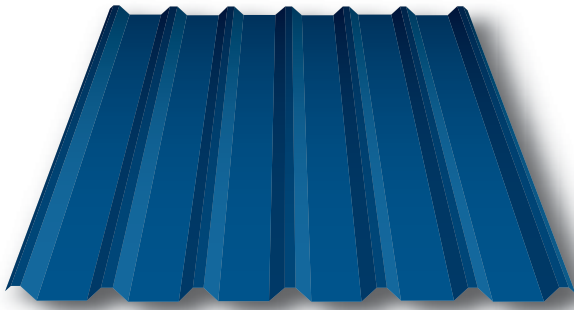
### TESTING AND APPROVALS

- 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 11-0617.02)
  - Texas Windstorm Evaluation RC-161
  - 2010 FBC Approved
- |                                  |  |
|----------------------------------|--|
| 29 ga. over 2x Purlins 10999.4   | 26 ga. over 16 ga. Girts 9482.2        |
| 29 ga. over 2x Girts 9482.3      | 26 ga. over 16 ga. Purlins 10999.3     |
| 29 ga. over 5/8" Plywood 11560.1 | 26 ga. over 5/8" Plywood 14645.7       |
| 29 ga. over 7/16" OSB 14645.8    | 0.032" Aluminum over 7/16" OSB 14645.5 |
| 29 ga. over 1/2" Plywood 14645.9 |  |





## Metal Building Products

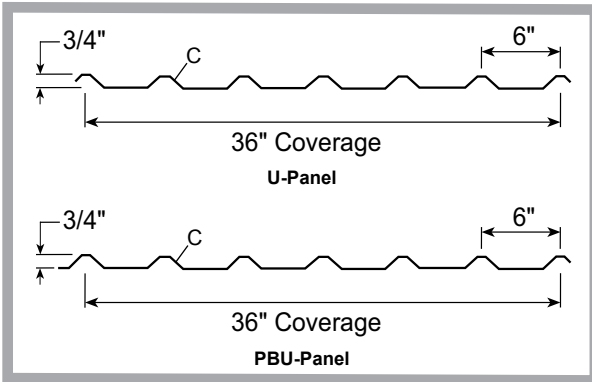


### U-Panel/PBU-Panel

- 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 AND APPROVALS

- 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)

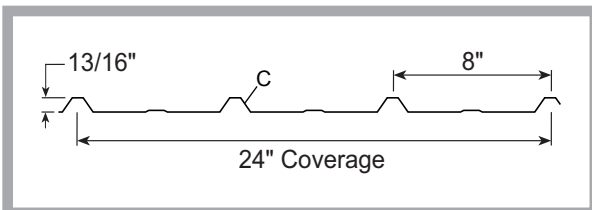


### Delta Rib

- 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 AND APPROVALS

- 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



### Exotic Metals

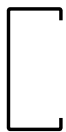
In addition to the wide variety of profiles and colors available, Metal Sales also offers unique materials and metal finishes including perforated.

- Copper
- Weathering Steel
- Aluminum
- Stainless Steel
- Zinc
- Copper Plated Stainless Steel

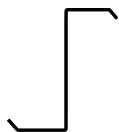


## Secondary Framing Members

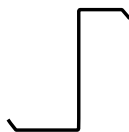
### CEES, ZEES AND EAVE STRUTS



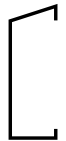
Cee



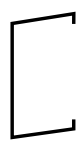
Standard Zee



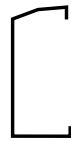
LGSI Zee



Single Slope



Double Slope



Universal

### CHANNELS, HAT SECTIONS AND ANGLES



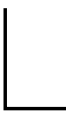
Channel



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.

## Secondary Framing

- 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
- LGSI Purlins available



## General Information

### Materials & 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) or ASTM A 653 Bare Galvanized coating of zinc. Yield strength will vary by panel profile and gauge. Inquire with Metal Sales for specific minimum yield strength. Differential appearance of unpainted roofing materials is not a cause for rejection.

Painted material shall conform to ASTM A 755 and be either hot dipped galvanized with a substrate coating as per ASTM A 653 or Galvalume® conforming to ASTM A 792 with an 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 Branch Locations



## **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

## **DEER LAKE, PENNSYLVANIA**

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

## **DENVER, COLORADO**

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

## **DETROIT LAKES, MINNESOTA**

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

## **FONTANA, CALIFORNIA**

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

## **FORT SMITH, ARKANSAS**

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

## **INDEPENDENCE, MISSOURI**

1306 South Powell Road  
Independence, MO 64057  
800.747.0012 • 800.409.3069/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

## **MOCKSVILLE, NORTH CAROLINA**

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

## **NASHVILLE, TENNESSEE**

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

## **ROGERS, MINNESOTA**

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

## **SEATTLE, WASHINGTON**

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

## **SELLERSBURG, INDIANA**

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

## **SIOUX FALLS, SOUTH DAKOTA**

2700 West 3rd Street  
Sioux Falls, SD 57104  
888.902.8320 • 605.951.0367/Fax

## **SPOKANE, WASHINGTON**

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

## **TEMPLE, TEXAS**

3838 North 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

## **Memberships and Affiliations**

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

[www.metalsales.us.com](http://www.metalsales.us.com)