

Architectural
Commercial
Post Frame
Residential

773 metal sales manufacturing corporation m

# THE METAL SALES DIFFERENCE

For more than 50 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 and 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®, ColorFit40™, PVDF, Weathering Steel, Aluminum, Stainless Steel and Copper
- Over 75 profiles available with matching trim and accessories
- All standard colors meet or exceed steep slope ENERGY STAR® requirements and many are also LEED compliant



- 21 convenient locations nationwide, including Alaska
- Ability to ship worldwide
- Up to 45 year finish warranties available
- Panel testing including FM-4471, UL 580, ASTM E 1592 and approvals including Miami-Dade County, ICC Evaluation Report and Florida Building Code (FBC) 2014
- 20 year weathertightness warranty available (on select profiles)
- Curving capabilities available (see pages 3 and 8)

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.

# **Profile Selection** STANDING SEAM PANELS Magna-Loc, Magna-Loc 180......3 Curved Magna-Loc......3 T-Armor Series™......4 CONCEALED FASTENED PANELS Image II™ ......7 Mini-Batten, Curved Mini-Batten.....8 Box-Batten.....8 Maxi-Batten ......8 TI -17 Series 9 EXPOSED FASTENED PANELS

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# 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities



#### **Testing and Approvals**

- ▷ ASTM E 1592 Roof Uplift
- ▷ ASTM E 1680 Air Leakage and
- $\triangleright$  Texas Department of Insurance Evaluation Report, RC-197
- $\,\,\,\triangleright\,$  Factory Mutual Approved, 1-90, 1-105 and 1-165
- $\triangleright$  Miami-Dade County Approved, NOA 13-0905.02 and 13-0905.03
- $\triangleright$  ICC Evaluation Report, ESR-2385
- ≥ 2014 FBC Approved
  - Magna-Loc 24 ga. over 16 ga. Purlins, 10999.5
  - Magna-Loc 24 ga. over 5/8" Plywood, 11560.6
  - Magna-Loc 24 ga. over 22 ga. Metal Deck, 11560.7
  - Magna-Loc 0.032" or 0.040" Aluminum over 22 ga. Metal Deck, 10999.2
  - Magna-Loc 180 24 ga. over 16 ga. Purlins, 10999.6

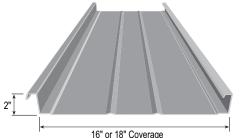
# 2" 16" or 18" Coverage



Striated



#### **Pencil Ribs**





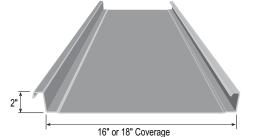


#### Flat





Striated



# 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities

- $\triangleright$  UL 580, Class 90 Wind Uplift, Construction #576, 577 and 583
- $\triangleright$  UL 790, Class A Fire Resistance Rating per assembly
- ► ASTM E 1592 Roof Uplift

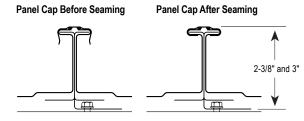
- ≥ 2014 FBC Approved
  - Magna-Loc 180 24 ga. over 16 ga. Purlins, 10999.6





# T-Armor Series™

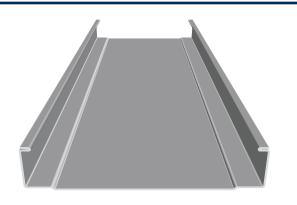
- ► Structural "T" standing seam roof panel
- ▶ 12", 16" and 18" panel coverage
- ▶ Rib Height: 2-3/8" and 3"
- ► Finishes: PVDF and Acrylic Coated Galvalume®
- ► Gauges: 24 ga. standard, 22 ga. and 20 ga. optional
- ► Aluminum: 0.032" and 0.040"
- ► Minimum roof slope: 1/2:12
- ► Integral mechanically seamed side lap
- ▶ "T" style rib allows for easy single panel replacement
- ► Factory-applied side lap sealant
- ► Concealed clip designed for thermal movement
- ► Accommodates 1/2" to 6" blanket insulation
- ► Applies over open framing or solid substrate
- ► Contact Metal Sales for load-carrying capabilities

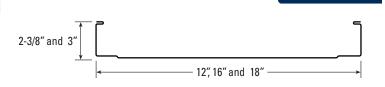


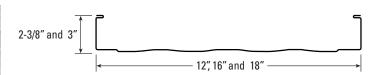


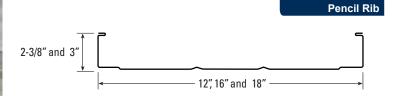
# Testing and Approvals

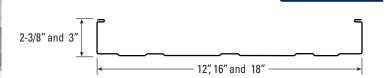
- $\triangleright$  UL 263, Fire Resistance Rating per assembly
- UL 580, Class 90 Uplift, Construction #268, 268A and 268B
- UL 790, Class A Fire Resistance Rating per assembly
- UL 1897, Uplift Load
- UL 2218, Class 4 Impact Resistance
- ▷ ASTM E 330, Uniform Static Air Pressure Difference
- ASTM E 1592 Roof Uplift
- ASTM E 1646 Water Penetration
- ▷ ASTM E 1680 Air Leakage
- ▶ TAS 201, 203 Impact
- ► TAS 100, Wind Driven Rain
- ▶ ICC 500 / FEMA 361
- > AAMA 501.1, Dynamic Water
- FM 4470, Foot Traffic

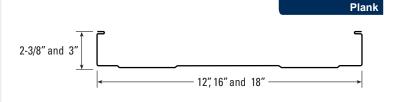


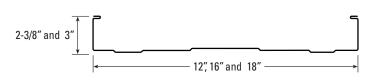












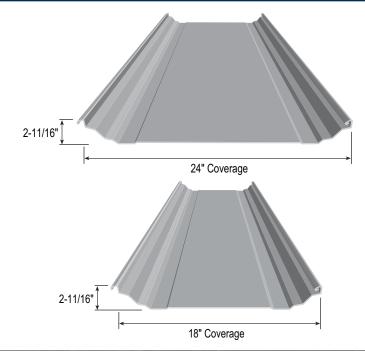
Striated

Minor Rib

Mesa

# 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities



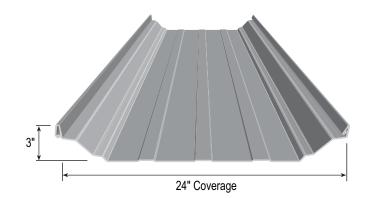
#### **Testing and Approvals**

- UL 263, Fire Resistance Rating per assembly
- UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance
- > ASTM E 1592 Roof Uplift
- ▷ ASTM E 1680 Air Leakage
- $\triangleright$  Factory Mutual Approved, 1-90 and 1-165
- ≥ 2014 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities



- □ UL 263, Fire Resistance Rating per assembly
- UL 580, Class 90 Uplift, Construction, #240

- > ASTM E 330, Uniform Static Air Pressure Difference
- ► ASTM E 1592 Roof Uplift
- ASTM E 1646 Water Penetration
- ▷ ASTM E 1680 Air Leakage



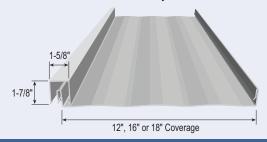


# **Vertical Seam**

- ► Architectural/structural standing seam roof panel
- ▶ Panel Coverage: 12", 16" or 18"
- ► Rib Height: 1-3/4"
- ► 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, MS Colorfast45® and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities

#### Vertical Seam Plus

- ► Square Batten Cap option for Vertical Seam Panel
- ► Available at the Fontana Branch only



#### **Testing and Approvals**

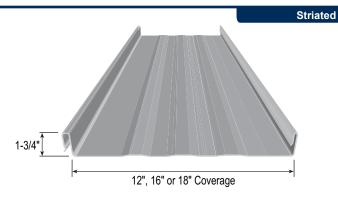
- UL 580, Class 90 Wind Uplift, Construction, #254, 255, 261, 303, 342, 343, 436, 445, 446, 447, 448, 508 and 508A
- UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance
- ► ASTM E 1592 Roof Uplift
- $\triangleright$  ASTM E 1646 Water Penetration
- ▷ ASTM E 1680 Air Leakage

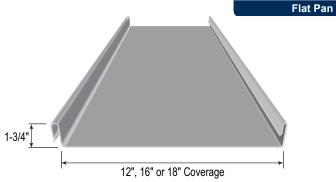
- $\triangleright$  ICC Evaluation Report, ESR-2385
- ≥ 2014 FBC Approved
  - -26 ga. over 1/2" Plywood, 11560.12 (16" Panel)
  - -24 ga. over 1/2" Plywood, 11560.10 (16" Panel)
  - -24 ga. over 1/2" Plywood, 11560.11 (18" Panel)
  - -0.032" Aluminum over 7/16" OSB, 14645.6 (16" Panel)
  - -0.032" Aluminum over 1/2" Plywood, 14645.7 (16" Panel)

# Clip-Loc

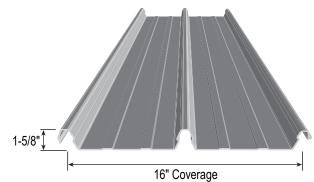
- ► Architectural/structural integral standing rib roof system
- ► Snap-together panel system
- ▶ 16" panel coverage, major rib: 8" centers, 1-5/8" rib height
- ► Gauges: 26 ga., 24 ga. standard, and 22 ga. optional
- ► Minimum roof slope: 1:12
- ▶ Applies over open framing or solid substrate
- ► Concealed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

- UL 790, Class A Fire Resistance Rating per assembly







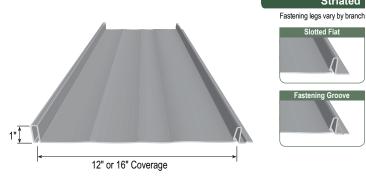


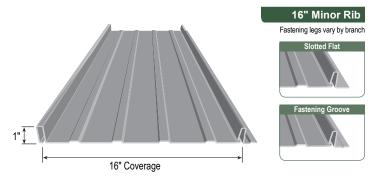


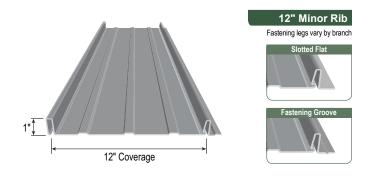
# lmage II

- ► 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities









- □ UL 580, Class 90 Wind Uplift, Construction, #529

- ▷ Texas Department of Insurance Evaluation Reports, RC-162, RC-398 and RC-399
- ≥ 2014 FBC Approved
  - -26 ga. over 5/8" Plywood, 11560.5

  - -26 ga. over 1/2" Plywood, 11560.4 -26 ga. over 7/16" OSB, 14645.11
  - -0.032" Aluminum over 7/16" OSB, 11560.2
  - -0.032" Aluminum over 5/8" Plywood, 11560.3



# Mini-Batten

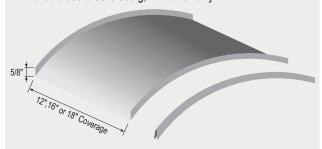
- ► Architectural standing seam roof panel
- ▶ 12", 16" or 18" panel coverage, minimum roof slope: 3:12
- ▶ Mini-Batten offers, 1" & 1-1/2" high rib utilizing a narrow batten cap
- ► Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- ► Concealed clip designed for thermal movement
- ► Applies over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

#### **Testing and Approvals**

- 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 790, Class A Fire Resistance Rating per assembly

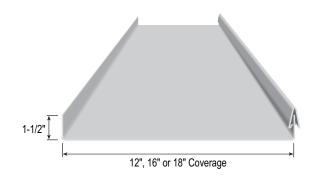
# Curved Mini-Batten

- ► Minimum radius 4'-0"
- ► Available at the Sellersburg, IN Branch only



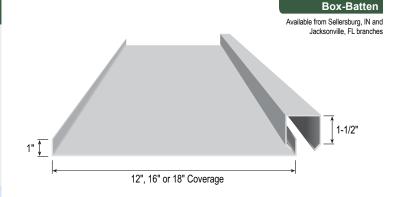
# 

#### 1.5" Mini-Batten



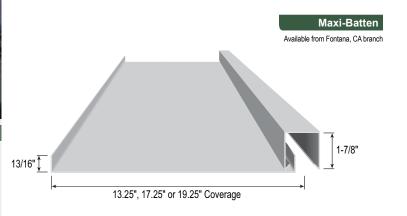
# **Box-Batten/Maxi-Batten**

- ► Architectural standing seam roof panel
- ▶ 12", 16", or 18" panel coverage, minimum roof slope: 3:12
- ► 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, MS Colorfast45® and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities





- $\triangleright$  UL 580, Class 90 Wind Uplift, Construction, #398 and 398A (Maxi-Batten)
- UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance
- $\triangleright$  ASTM E 283 Air Leakage



# TL-17 Series

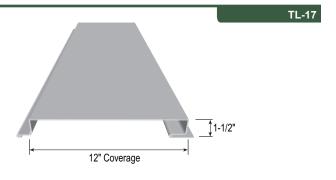
- Concealed direct-fastened panel for wall, soffit, fascia or liner applications
- ▶ 12" panel coverage
- ► 1-1/2" panel depth
- ▶ 30'-0" maximum length, press-broke panel
- ► Gauges: 24 ga. standard, 22 ga., 20 ga. and 18 ga. optional
- ► Applies over open framing or solid substrate
- ► Finishes: PVDF and Acrylic Coated Galvalume®
- ▶ Optional material: stainless steel, aluminum and copper
- ► Custom capabilities include:
  - Perforated panels for wind screens and liner panels
- Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol and Polyester
- ► Contact Metal Sales for load-carrying capabilities

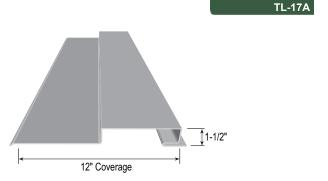


# **Testing and Approvals**

- ⊳ ASTM E 283 Air Leakage

- ▷ ASTM E 1592 Roof Uplift

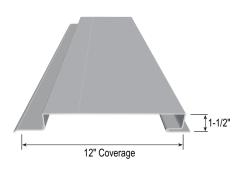


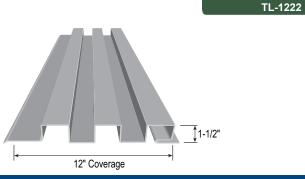


12" Coverage

TL-17C

TL-17D





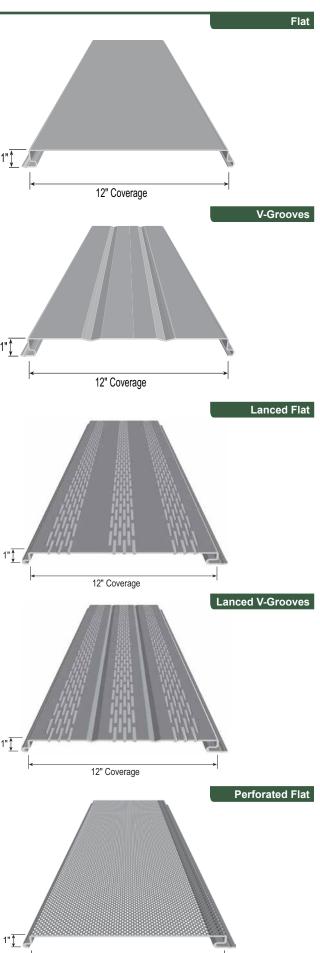
# **Soffit Panel**

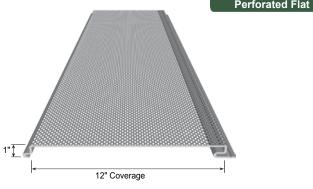
- ► Concealed direct-fastened system for soffit, wall, fascia or liner applications
- ▶ 12" panel coverage
- ► 1" depth
- ▶ Max Panel Length: 26 ga. 5'-0", 24 ga. 20'-0" and 0.032" Alum 25'-0"
- ► Gauges: 26 ga., 24 ga. and 0.032" aluminum
- ► Lanced and Perforated versions are available
- ► Applies over solid substrate with 30# felt underlayment
- ► Finishes: MS Colorfast45®, PVDF and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities

- > ASTM E 330 Uniform Static Air Pressure Difference
- > 2014 FBC Approved
  - -24 ga. panel over 16 ga. Purlins, 9482.5



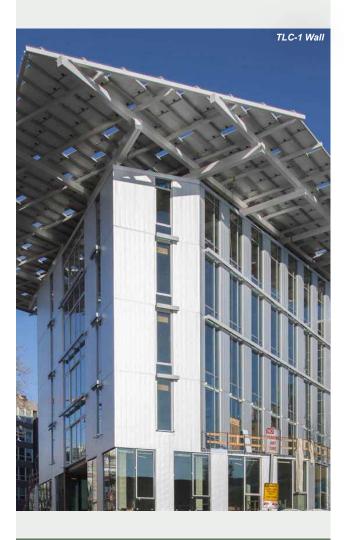




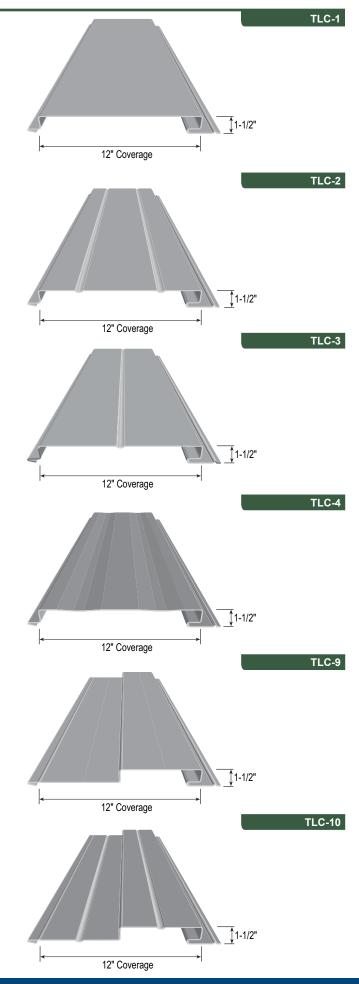


# **Flush Face Series**

- Concealed direct-fastened panel for wall, soffit, fascia or liner applications
- ▶ 12" panel coverage
- ► 1-1/2" panel depth
- ▶ 45'-0" maximum length, roll-formed panel
- ► Gauges: 24 ga. standard, 22 ga., 20 ga. and 18 ga. optional
- ► Applies over open framing or solid substrate
- ► Finishes: PVDF and Acrylic Coated Galvalume®
- ▶ Optional material: stainless steel, aluminum and copper
- ► Custom capabilities include:
  - Perforated panels for wind screens and liner panels
- Optional Finishes: Multi-pass Kynar 500<sup>®</sup>, Marblique, Plastisol and Polyester
- ► Contact Metal Sales for load-carrying capabilities



- ▷ ASTM E 283 Air Infiltration
- ▷ ASTM E 330 Uniform Static Air Pressure Difference
- > ASTM E 331 Water Penetration
- ⊳ ASTM E 1592 Roof Uplift



# **Verti-Line Series**

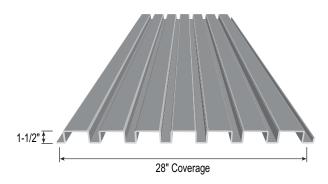
- Exposed direct-fastened panel for wall, soffit, fascia and liner panel
- ► Applies over open framing or solid substrate
- ▶ 28", 30" and 36" panel coverages, 1-1/2" rib height
- ▶ 90° vertical box ribs on 4", 6", 9" and 12" centers
- ▶ Optional material: stainless steel, aluminum and copper
- ▶ Gauges: 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 and Acrylic Coated Galvalume®
- ▶ Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol and Polyester
- ► Contact Metal Sales for load-carrying capabilities

# Other profiles are available. Please inquire.

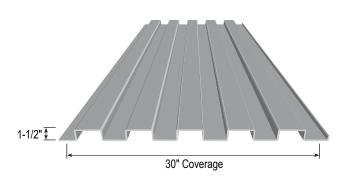


# **Testing and Approvals**

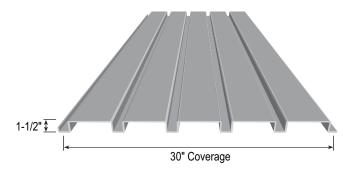
- UL 2218, Class 4 Impact Rating



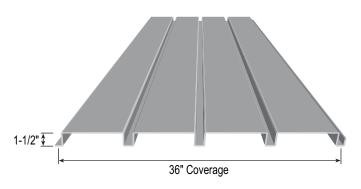
T10-B Wall Panel



T10-C Wall Panel



T10-D Wall Panel



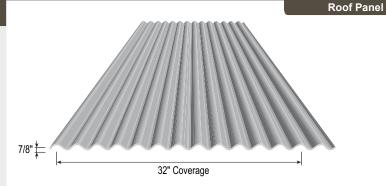
# 7/8" Corrugated

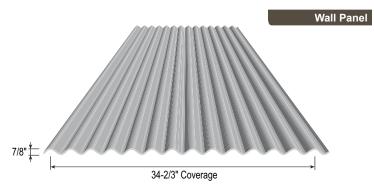
- Exposed direct-fastened panel for roof and wall applications
- ▶ 32" roof coverage (34-2/3" wall coverage)
- ► 7/8" rib height, 2-2/3" centers
- ▶ Gauges: 26 ga. and 24 ga. standard, 22 ga. and 20 ga. optional
- Optional materials: stainless steel, aluminum, copper and weathering steel
- ► Minimum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

#### **Testing and Approvals**

- $\triangleright$  UL 263, Fire Resistance Rating per assembly
- UL 790, Class A Fire Resistance Rating per assembly
- > ASTM E 283 Air Infiltration
- ▷ ASTM E 330 Uniform Static Air Pressure Difference
- > ASTM E 1592 Roof Uplift Capacity
- □ ASTM E 1646 Water Penetration

- ≥ 2014 FBC Approved
  - -24 ga. panel over 16 ga. Purlins, 10999.1
  - -24 ga. panel over 16 ga. Girts, 9482.1





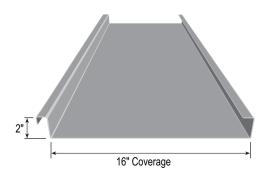




# **Interior Liner Series**

- Exposed direct-fastened panel for liner applications
- ▶ 16" or 24" panel coverage
- ▶ 1-1/2", 2" or 3" depth
- ► Gauges: 26 ga., 24 ga. standard, 22 ga., 20 ga. and 18 ga. optional
- ▶ Optional material: stainless steel, aluminum and copper
- ▶ Applies over open framing or solid substrate
- ► Finishes: PVDF and Acrylic Coated Galvalume®
- ▶ Optional finishes: Multi-pass Kynar 500®, Marblique and Plastisol
- ► Custom capabilities include:
  - perforated panels for wind screens and liner panels
     tapering
- ► Contact Metal Sales for load-carrying capabilities

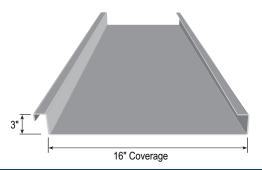




# TL-19A Panel

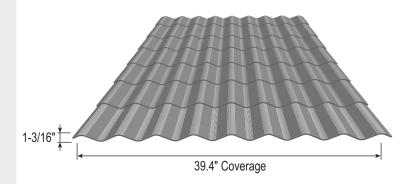
1-1/2" \( \frac{1}{24" \text{Coverage}} \)

TL-21 Panel



# 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
- ► Colors: 7 standard colors
- ► Contact Metal Sales for load-carrying capabilities



#### **Testing and Approvals**

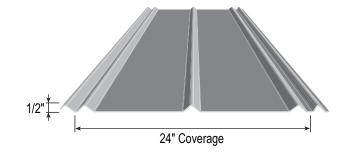
- □ UL 263, Fire Resistance Rating per assembly
- UL 580, Class 90 Wind Uplift, Construction, #533
- □ UL 790, Class A Fire Resistance Rating per assembly

- ≥ 2014 FBC Approved
  - -26 ga. over 1/2" Plywood, 11560.8
  - -26 ga. over 1/2" Plywood, 11560.9



# **5V-Crimp**

- Exposed direct-fastened roof panel, traditional "V" rib
- ▶ 24" panel coverage
- ▶ 1/2" rib height
- ► Gauges: 29 ga. and 26 ga. standard, 0.032"Aluminum optional
- ► 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



- Dulity, Class 90 Wind Uplift, Construction, #453 and 579
- UL 790, Class A Fire Resistance Rating per assembly

- ≥ 2014 FBC Approved
  - -26 ga. over 5/8" Plywood, 14645.2 and 14645.3
  - -26 ga. over 7/16" OSB, 14645.4
  - -0.032" Aluminum over 7/16" OSB, 11560.1



# **IC72-Panel**

- Exposed direct-fastened industrial panel
- ► 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities

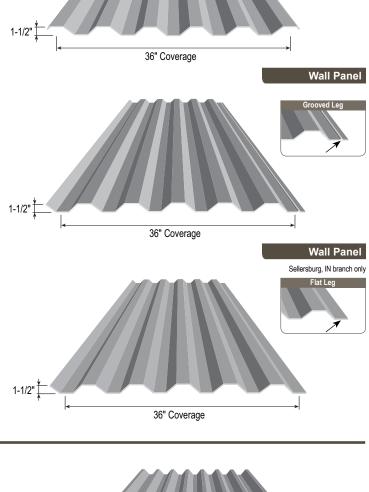


# **Testing and Approvals**

- □ UL 263, Fire Resistance Rating per assembly
- $\triangleright$  ASTM E 283 Air Infiltration
- $\triangleright$  ASTM E 330 Uniform Static Air Pressure Difference

# 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities



**Roof Panel** 

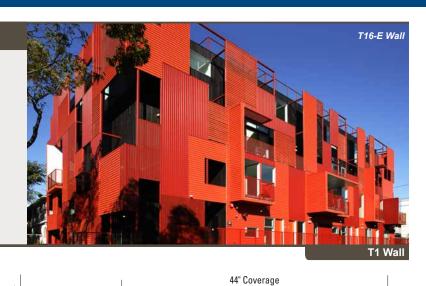
#### **Testing and Approvals**

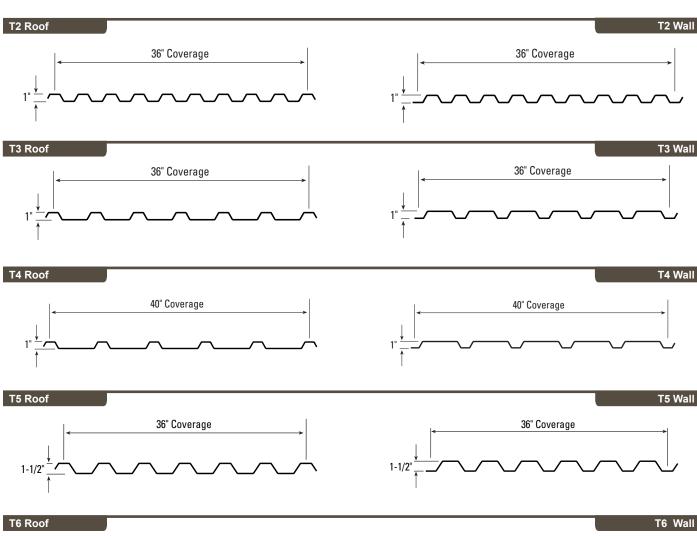
- Dulity, Class 90 Wind Uplift, Construction, #187



32" Coverage

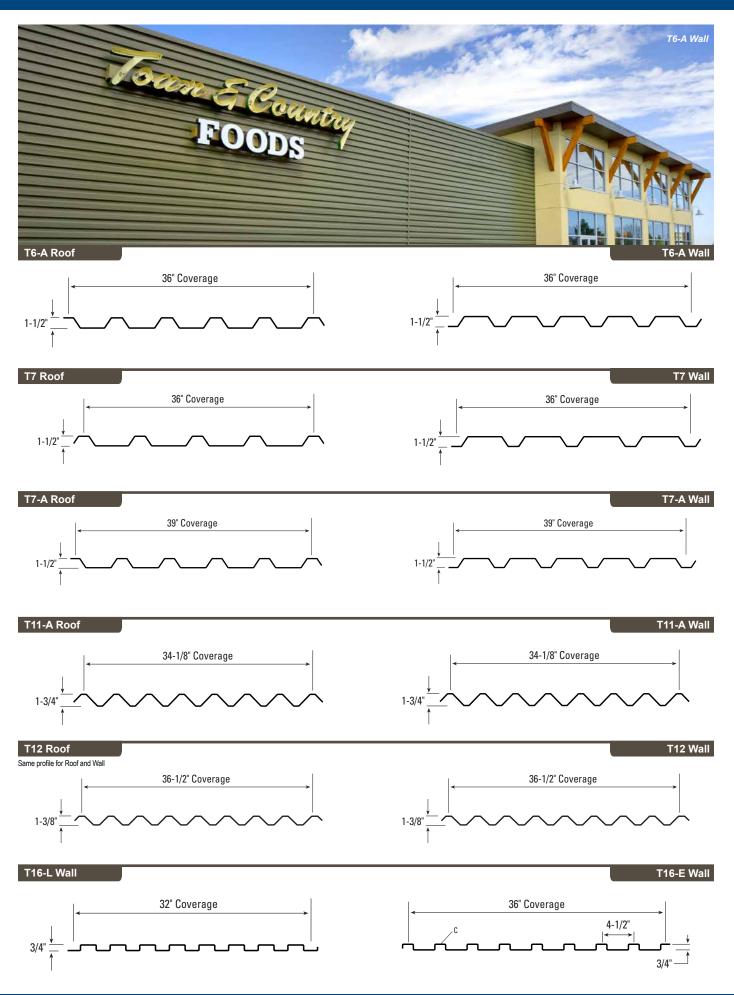
# **Exposed Fastened Series** Exposed direct-fastened panel for roof and wall applications ▶ Applies over open framing or solid substrate ▶ Panel coverage: 32" – 44" ► Rib height: 5/8" – 1-3/4" ▶ Optional material: stainless steel, aluminum, and copper ► Gauges: 24 ga. standard, 22 ga., 20 ga. and 18 ga. optional ► Minimum roof slope: 1:12 ► Standard Finish: PVDF and Acrylic Coated Galvalume® ▶ Optional Finishes: Multi-pass Kynar 500®, Marblique, Plastisol and Polyester ► Contact Metal Sales for load-carrying capabilities Other profiles are available. Please inquire. T1 Roof 44" Coverage T2 Roof 36" Coverage





35" Coverage

35" Coverage

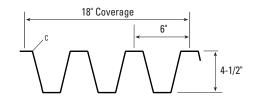


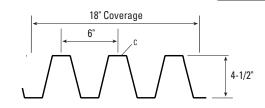
# **Deep Rib Series**

- Exposed direct-fastened panel for roof and wall applications
- ▶ Applies over open framing or solid substrate
- ► Various panel coverages
- ▶ 2", 4" and 4-1/2" rib heights
- ► Trapezoidal ribs 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 and Acrylic Coated Galvalume®
- Optional Finishes: Multi-pass Kynar 500<sup>®</sup>, Marblique, Plastisol and Polyester
- ► Contact Metal Sales for load-carrying capabilities

Other profiles are available. Please inquire.

# TDR-6 Roof

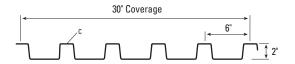


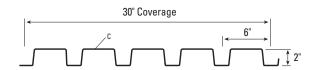


T2630 Roof

T2630 Wall

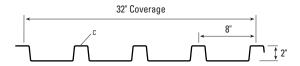
TDR-6 Wall

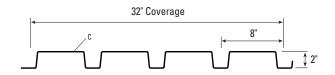




T2832 Roof

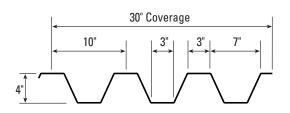
T2832 Wall

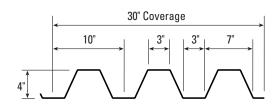




T15 Roof

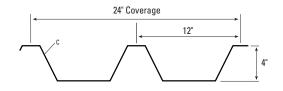
T15 Wall

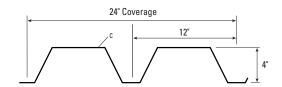




T25 Roof

T25 Wall





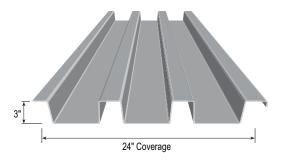
# **Industrial Rib Series**

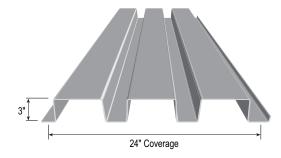
- Exposed direct-fastened panel for roof and wall applications
- ► Applies over open framing or solid substrate
- ▶ 24" and 30" panel coverages
- ▶ 3" and 3-1/2" rib heights
- ► Trapezoidal ribs on various centers
- ▶ Optional material: stainless steel, aluminum, and copper
- ► Gauges: 24 ga. standard, 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 and Acrylic Coated Galvalume®

# Other profiles are available. Please inquire.

# T13 Roof

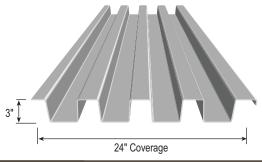


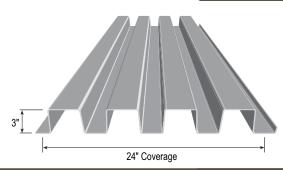




# T13-A Roof

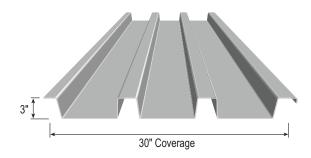
T13-A Wall

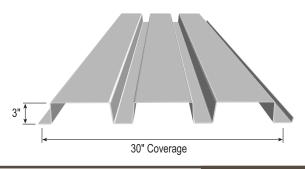




#### T13-B Roof

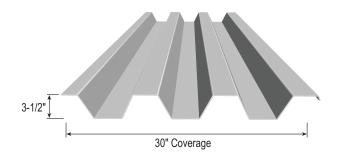
T13-B Wall

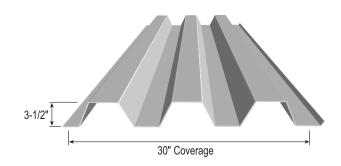




# T14 Roof

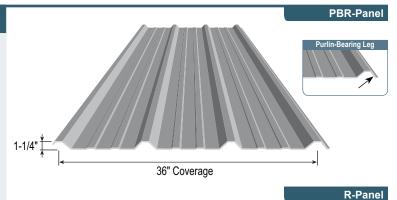
T14 Wall

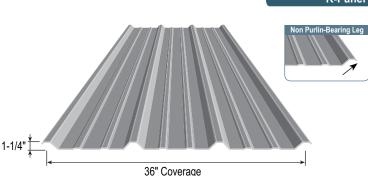




# **PBR-Panel**, R-Panel

- Exposed direct-fastened panel for roof and wall applications
- ▶ 36" panel coverage
- ► Trapezoidal rib on 12" centers
- ► 1-1/4" rib height
- ▶ PBR-Panel Gauges: 26 ga. and 24 ga. standard, 22 ga. optional
- ▶ R-Panel Gauges: 29 ga. and 26 ga. standard
- ► Minimum roof slope: 1:12
- ▶ Applies over open framing or solid substrate
- ► Finishes: MS Colorfast45®, PVDF and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities





#### **Testing and Approvals**

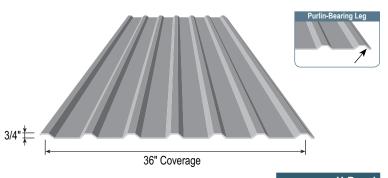
- UL 580, Class 90 Wind Uplift, Construction, #161
- UL 790, Class A Fire Resistance Rating per assembly

- ▶ Texas Department of Insurance Evaluation Reports, RC-198, RC-265, RC-279, RC-391
- ≥ 2014 FBC Approved
  - -26 ga. over 16 ga. Purlins, 10999.7
  - -26 ga. over 16 ga. Girts, 9482.4
  - -26 ga. over 1/2" Plywood, 14645.12

PBU-Panel

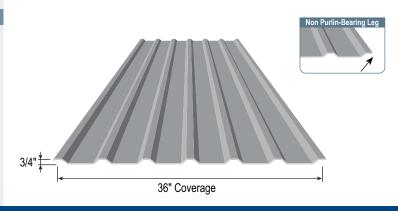
# **PBU-Panel**, U-Panel

- Exposed direct-fastened panel for roof and wall applications
- ▶ 36" panel coverage
- ► Trapezoidal rib on 6" centers
- ▶ 3/4" rib height
- ► Gauges: 29 ga., 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities





- $\,\triangleright$  UL 580, Class 90 Wind Uplift, Construction, #39
- UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance



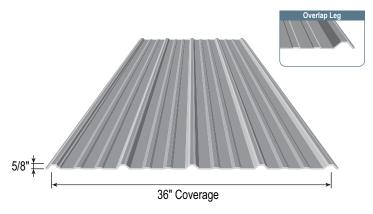
# Pro-Panel II®

- Exposed direct-fastened, low profile panel for roof and wall
- ▶ 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®, PVDF and Acrylic Coated Galvalume®
- Contact Metal Sales for load-carrying capabilities

#### **Testing and Approvals**

- UL 263, Fire Resistance Rating per assembly
- UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance
- ≥ 2014 FBC Approved
  - -29 ga. over 1/2" Plywood, 14645.13



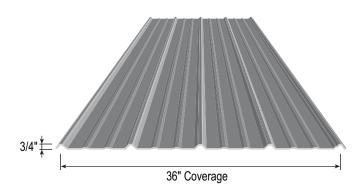


Pro-Panel II

# Available in select branches only Alternate Overlap Leg 36" Coverage

# Classic Rib®

- Exposed direct-fastened, low profile panel for roof and wall
- ▶ 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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities



#### **Testing and Approvals**

- $\triangleright$  UL 580, Class 90 Wind Uplift, Construction, #560 and 584
- $\triangleright$  UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance
- $\triangleright$  ASTM E 455 Diaphragm Test
- □ ASTM E 564-95 Diaphragm Test

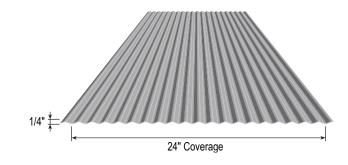
- ≥ 2014 FBC Approved
  - -29 ga. over 2x Purlins, 10999.4
  - -29 ga. over 2x Girts, 9482.3
  - -29 ga. over 7/16" OSB, 14645.9
  - –29 ga. over 1/2" Plywood, 14645.10
- -26 ga. over 16 ga. Girts, 9482.2
- -26 ga. over 16 ga. Purlins, 10999.3
- -26 ga. over 5/8" Plywood, 14645.8
- -0.032" Aluminum over 7/16" OSB, 14645.5



800.406.7387

# 1.25" Corrugated

- Exposed direct-fastened panel for roof and wall applications
- ▶ 24" panel coverage
- ► Corrugated ribs on 1-1/4" centers
- ► 1/4" 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



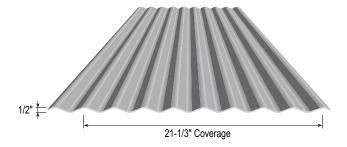
# **Testing and Approvals**

- UL 580, Class 90 Wind Uplift, Construction, #161
- UL 2218, Class 4 Impact Resistance

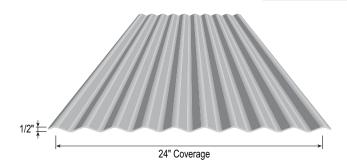


# 2.5" Corrugated

- Exposed direct-fastened panel for roof and wall applications
- ▶ 24" panel coverage (wall)
- ► 21-1/3" panel coverage (roof)
- ► Corrugated ribs on 2-2/3" centers
- ▶ 1/2" 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



Wall



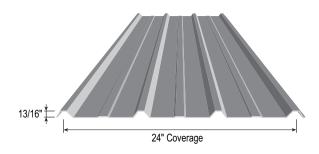
- □ UL 790, Class A Fire Resistance Rating per assembly
- $\triangleright$  UL 2218, Class 4 Impact Resistance

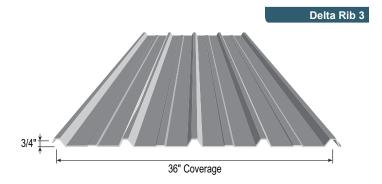
- ≥ 2014 FBC Approved
  - -26 ga. over 5/8" Plywood, 14645.1



# **Delta Rib**

- Exposed direct-fastened panel for roof and wall applications
- ▶ 24" and 36" panel coverages
- ▶ 13/16" and 3/4" rib heights
- ► Trapezoidal rib on 8" and 9" centers
- ► 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





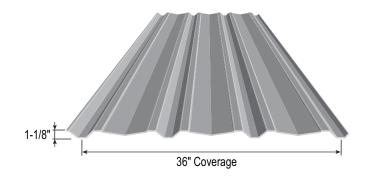
# **Testing and Approvals**

- UL 790, Class A Fire Resistance Rating per assembly



# **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 and Acrylic Coated Galvalume®
- ► Contact Metal Sales for load-carrying capabilities



#### **Testing and Approvals**

- □ UL 263, Fire Resistance Rating per assembly
- $\triangleright$  UL 2218, Class 4 Impact Resistance
- ▷ ASTM E 330 Uniform Static Air Pressure Difference
- ≥ 2014 FBC Approved
  - -26 ga. over 16 ga. Girts, 9482.6

metalsales.us.com

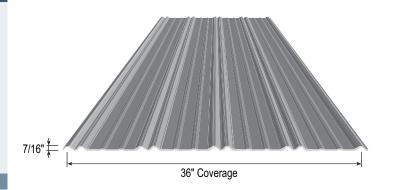


# **Bi-Rib**

- Exposed direct-fastened panel for roof and wall applications
- ▶ 36" panel coverage
- ▶ 7/16" rib height
- ▶ Double trapezoidal ribs on 9" centers
- ► 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

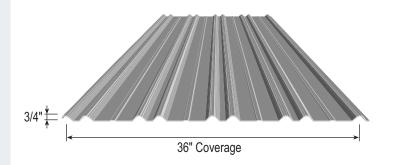
#### **Testing and Approvals**

- ▶ UL 263, Fire Resistance per assembly
- ▶ UL 790, Class A Fire Resistance Rating per assembly
- ▶ UL 2218, Class 4 Impact Resistance



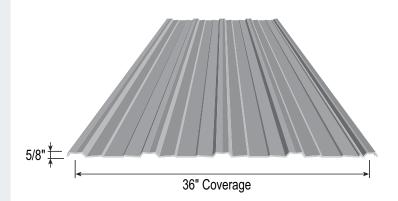
# **Dual Rib**

- ▶ Mill-finished diamond-embossed aluminum
- Exposed direct-fastened, low profile panel for roof and wall
- ▶ 36" panel coverage
- ▶ 3/4" bell-top rib height
- ► Twin trapezoidal ribs on 9" centers
- ► Thickness: 0.0155" and 0.018"
- ► Minimum roof slope: 3:12
- ► Contact Metal Sales for load-carrying capabilities



# Strongpanel

- Exposed direct-fastened roof and wall panel
- ▶ 36" panel coverage
- ▶ 5/8" rib height
- ► Classic board and batten design, on 9" centers
- ► Gauges: 29 ga. and 28 ga. standard
- ► Minimum roof slope: 3:12
- ► Applies over open framing or solid substrate
- ► Finishes: MS Strongcoat45® and Galvanized
- ► Contact Metal Sales for load-carrying capabilities

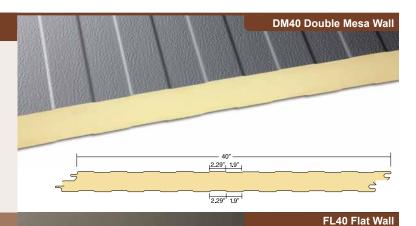


- UL 790, Class A Fire Resistance Rating per assembly
- UL 2218, Class 4 Impact Resistance

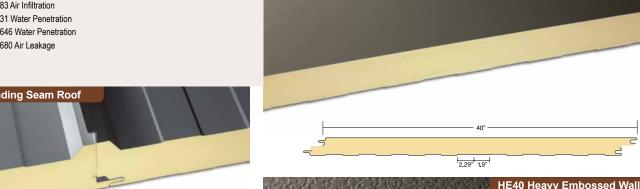


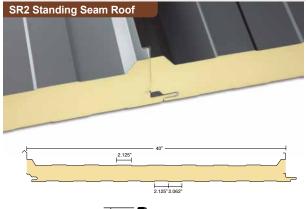
# ÎMPower Series™ ► Insulated metal wall and roof systems

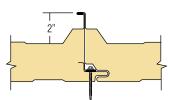
- ► Factory-injected foam insulation between dual steel facings
- ► Closed cell insulating core provides approximately R-8 per inch
- ▶ Panel Coverage: 40"
- ▶ Wall Panel Thickness: 2", 2.5", 3" and 4"
- ▶ Roof Panel Thickness: 2.5", 3.25", 4", 5" and 6"
- ► Gauges: 26 ga. standard 24 ga. and 22 ga. optional
- ► Finishes: PVDF and SMP coatings
- ► Contact Metal Sales for load-carrying capabilities

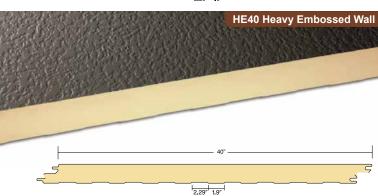


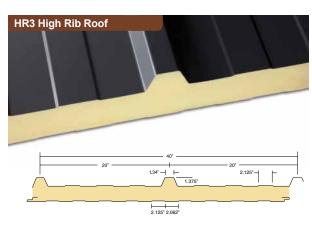
- ▷ ASTM E 1680 Air Leakage

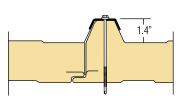


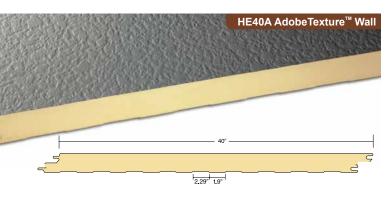


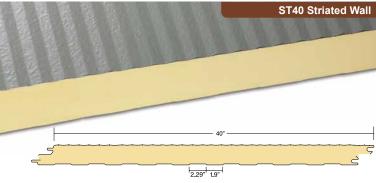












# Retro-Master®

Retro-Master® is a complete retrofit roof system that easily and affordably transforms any old or failing roof into a new, sophisticated, code-compliant and energy-efficient sloped metal roof.

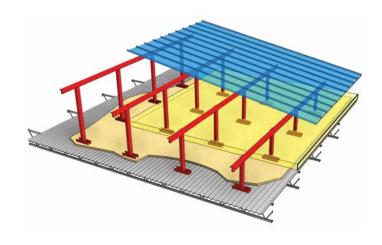
As a single-source solution, Retro-Master® retrofit roof system is backed by a 20 year weathertight warranty and an industry-leading 45 year finish warranty.

Retro-Master® is the ideal solution for schools and universities, retail centers and stores, industrial or office buildings, military or any building in need of a new, long-lasting high performance roof.

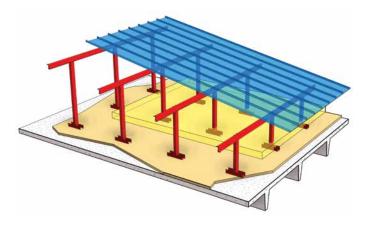
- ► Added slope minimizes maintenance flat roof and geometry problems
- ► Roofing systems designed for a longer life cycle
- ► Utilizes structural concealed clip panel systems as well as exposed fastened panel systems designed to the latest testing requirements, including wind, fire, and impact
- ▶ In-house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

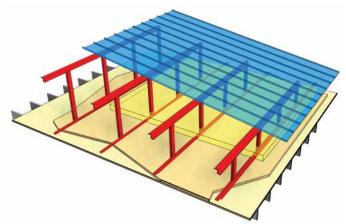
#### RETRO-MASTER SYSTEM OVER CONCRETE SUBSTRATE





#### RETRO-MASTER SYSTEM OVER WOOD SUBSTRATE



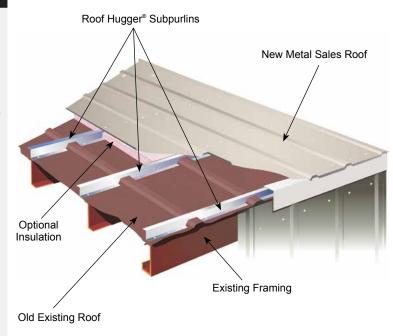


# **Metal-Over-Metal**

If your building has an existing metal roof in need of replacement, Retro-Master® is the most complete and convenient solution. This easy, efficient and virtually waste-free system is installed over your existing roof, allowing your business to operate uninterrupted.

Retro-Master® Metal-Over-Metal Re-Roof Solution combines high quality Metal Sales roof panels with the patented Roof Hugger® subpurlin retrofit framing system to deliver a new, structurally sound roof that will stand the test of time.

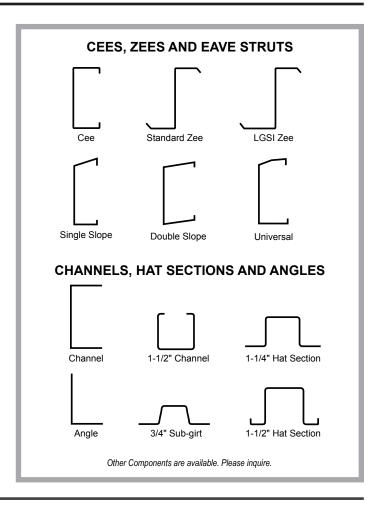
- ▶ Roof Hugger® components nest over existing sloped roof panels
- ▶ Subpurlins are compatible with many of Metal Sales roof panels
- ▶ Standing seam or exposed fastened panel profiles can be used
- New insulation can be added between roof systems to increase overall building R-value
- ► LEED points available, based on building reuse



# **Secondary Framing**

- ► Cees and Zees 4" to 12" deep with 2-1/2" to 4" flange widths
- ► 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)
- Single Slope Eave Struts for high side applications
- ▶ Double Slope Eave Struts for low side applications
- ▶ LGSI Purlins available





# **Material Information**

#### **Materials**

Unpainted materials shall conform to ASTM A 792 Acrylic Coated Galvalume<sup>®</sup> (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<sup>®</sup> 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.

#### **Elite Series Panels**

Produced exclusively for Metal Sales specifications, Elite Series panels are one of the heaviest galvanized coated panels in the industry. Painted G100 galvanizing provides the longest life possible for your residential, agricultural or light commercial building project.

#### **PVDF**

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 excellent protection to the elements with special consideration to chalk and fade resistance, durability, and chemical resistance. See Color Guides for available colors.

#### ColorFit40™

A superb coating system that delivers quality and reliable performance. See Color Guide for the 13 standard 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. 29 gauge trims are produced in ColorFit40™ and MS Colorfast45®. The 26 gauge trims are produced with a MS Colorfast45® paint system or a PVDF paint system. The 24 gauge trims are produced with a PVDF paint system. See Color Guides for available colors.

# **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 888.299.0024 • 888.960.0429/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



