



## WALL PANELS SPECIFICATIONS



[www.vulcansteel.com](http://www.vulcansteel.com)

1-800-258-3369

## PBR PANEL

### EXPOSED FASTENING SYSTEMS

#### PRODUCT SPECIFICATIONS

**Applications:** Roof and Wall

**Coverage Widths:** 36"

**Rib Spacing:** 12" on center

**Rib Height:** 1 1/4"

**Minimum Slope:** 1/2:12

**Panel Attachment:** Exposed Fastening System

**Gauges:** 26 (standard); 29, 24, 22 (optional)

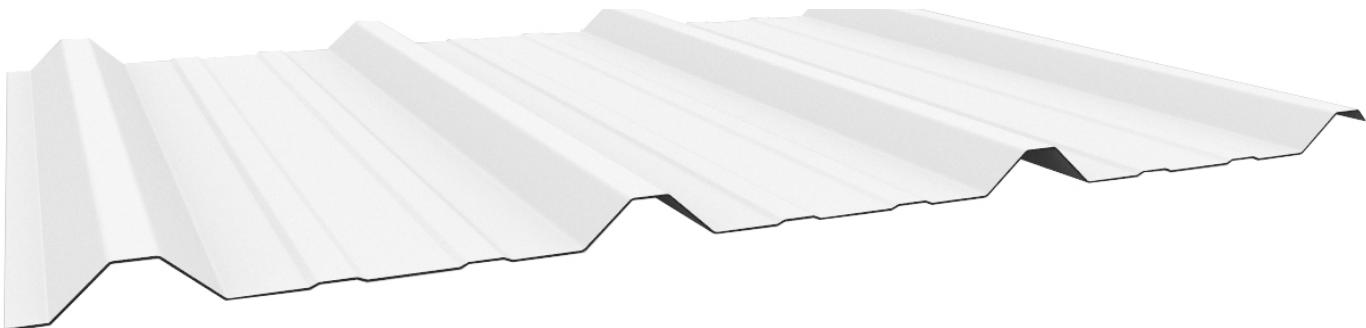
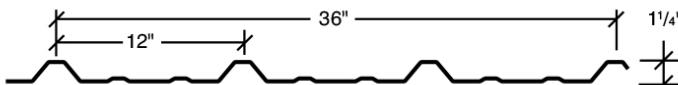
**Finishes:** Smooth (standard); Embossed (optional)

**Coatings:** Galvalume Plus® Standard Color, Kynar®, Fluropal®

The PBR panel is commonly used for a wide variety of architectural, agricultural, commercial and industrial applications. PBR is a structural panel and an exposed fastener panel that can be used for both roof and wall applications. The minimum roof slope for PBR is 1/2:12.

#### FEATURES AND BENEFITS

- Numerous UL 580 ratings are available, as well as UL 790, Class A for external fire, roof assembly for UL 263 for internal fire and the UL 2218 Class 4 impact rating.
- PBR carries Florida approval, Dade county ratings and FM 4471 approval standard for Class 1 panel roofs.





## PBR PANEL

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
ENVIRONMENTAL	Air Leakage Through Roof Panel Joints	ASTM E1680	Determines the air leakage characteristics of metal panels under specified air pressure differences at ambient conditions	0.0005 cfm/ft <sup>2</sup> at 1.57 psf static pressure 0.006 cfm/ft <sup>2</sup> at 6.24 psf static pressure
	Water Penetration Through Roof Panel Joints	ASTM E1646	Determines the resistance to water penetration of metal roof panels under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 20.00 psf
	Impact Resistance	UL 2218	Determines Impact Resistance of prepared Roof Covering Materials	Class 4 Rating
FIRE RESISTANCE	Room Fire Performance	UL 790	Standard for Standard Test Methods for Fire Tests of Roof Coverings	See Class A Fire Rating Data Sheet
	Room Fire Performance	UL 263	Standard for Fire Tests of Building Construction and Materials	For use in Design Nos. P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P720, P722, P726, P731, P734, P801, P815, P819.
STRUCTURAL	Uplift Resistance	AISI S100	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Section Properties and Allowable Load Table Section
	Gravity Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
ROOF LISTING	Roof Performance - FM Global	FM 4471	Sets performance standards for panel roofs including uplift resistance	See FM Engineering Tech Bulletin
	Roof Performance - Underwriters Laboratory	UL 580	Determines the Uplift resistance of roof assemblies consisting of the roof and roof coverings materials	Class 90 Rating - Construction Number 30, 54, 79, 104, 112, 161, 167, 184, and 542
	Roof Performance - Miami Dade County	TAS 125 TAS 201 TAS 100 FM 4471 App. G	The Product Control Approval System establishes protocol to evaluate the standards of products used in construction in Miami-Dade County. Miami-Dade County, with its inclusion in the High Velocity Hurricane Zone (HVHZ) has the most stringent code requirements of the Florida Building Code. Therefore all products that comprise the structure's building envelope - doors, shutters, windows, prefabricated buildings and truss plates - require the issuance of an approval in order to be used for construction in Miami-Dade County	See NOA # 12-0123.07
	Roof Performance- Florida Approval	ASTM E 1592 FM 4471 UL 790	Florida product approval is the approval of products and systems. which comprise the building envelope and structural frame. for compliance with the structural requirements of the Florida Building Code.	See FL# 5346.1 See FL# 1868.1
	Roof Performance - Texas Department of Insurance	ASTM E 1592	TWIA provides windstorm and hail insurance in areas exposed to hurricanes and currently provides windstorm and hail coverage in the following 14 "first tier" Texas coastal counties. Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kenedy, Kleberg, Matagorda, Nueces, Refugio, San Patricio and Willacy	See RC-358 and RC-393
WALL LISTING	Wall Performance - Florida Approval	ASTM E 1592		FL# 5335.1 FL# 11917.5

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## REVERSE PBR PANEL

### SEMI-CONCEALED FASTENING SYSTEMS

#### PRODUCT SPECIFICATIONS

**Applications:** Wall or fascia

**Coverage Widths:** 36"

**Rib Spacing:** 12" on center

**Rib Depth:** 1 1/4"

**Panel Attachment:** Recessed fastener locations create a semi-concealed appearance

**Gauges:** 26 (standard); 24

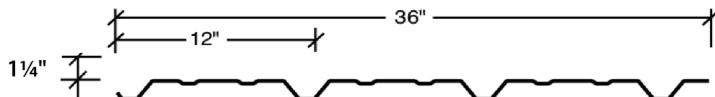
**Finishes:** Smooth (standard)

**Coatings:** Galvalume Plus® Standard Color, Kynar®, Fluropone®

The Reverse PBR panel is a semi-concealed fastener wall panel that can be used in both interior and exterior applications. It can be used as a finished exterior wall panel to accommodate 6-inch-thick blanket insulation.

#### FEATURES AND BENEFITS

- Commonly used as a backer or metal sheathing for exteriors that are finished in EIFS or brick.
- Accommodates higher 'R' value, energy-efficient insulation systems.



## ShadowRib™ PANEL

### CONCEALED FASTENING SYSTEMS

#### PRODUCT SPECIFICATIONS

**Applications:** Wall

**Coverage Widths:** 16"

**Panel Attachment:** Concealed Fastening System; Outside Panel Attachment - ShadowRib™ Panel Clip

**Gauges:** 24 (standard); 22 (optional)

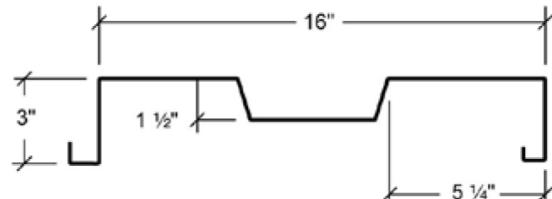
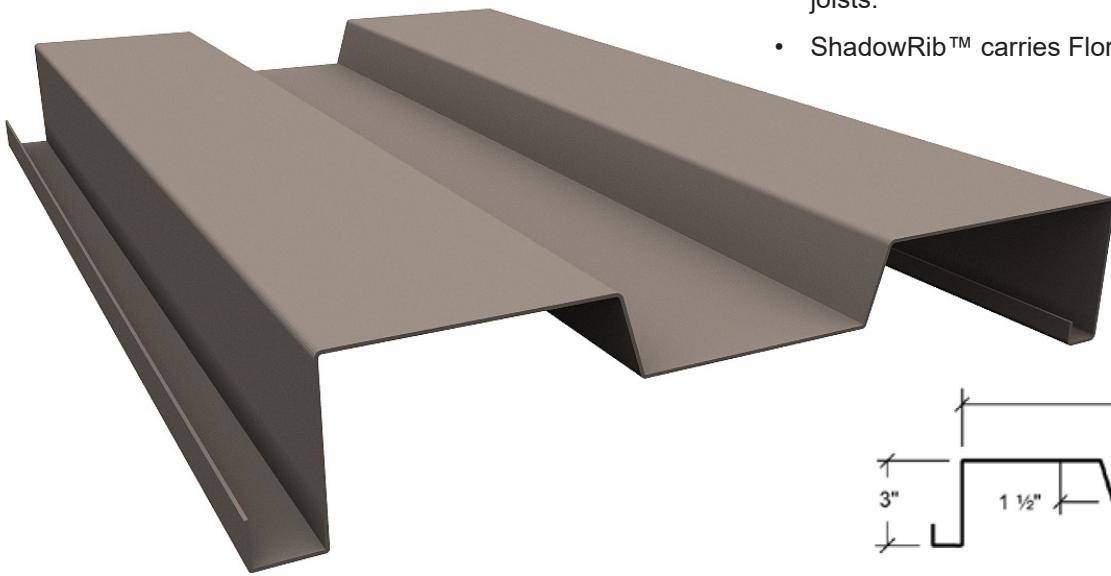
**Finishes:** Smooth (standard); Embossed (optional)

**Coatings:** Galvalume Plus®, Standard Color, Kynar®, Kynar Metallic

ShadowRib™ is a 3-inch-deep panel that combines aesthetics, economy and function to bring definition to metal structures. ShadowRib™ is a proven performer and a versatile tool to the designer. Structural strength in the ShadowRib™ panel is accomplished without sacrificing appearance or design flexibility. The fluted face creates distinctive shadow lines.

#### FEATURES AND BENEFITS

- Panels may be secured to the structure from the outside of the building with the ShadowRib™ concealed clip or from inside the building with an expansion fastener. Both are positive fastened methods that create a secure interlock between panel and structure.
- The ShadowRib™ panel can be used for walls, fascias and equipment screens. Apply the panel over light-gauge framing, purlins, girts, structural steel and joists.
- ShadowRib™ carries Florida approval.





## ShadowRib™ PANEL

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
<b>STRUCTURAL</b>	Negative Wind Loads	ASTM E1592	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Load Chart Section
	Positive Wind Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
<b>ROOF LISTING</b>	Roof Performance - Florida Approval	ASTM E1592	Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code.	See FL# 11917.5

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## 7.2 PANEL

### EXPOSED FASTENING SYSTEM

#### PRODUCT SPECIFICATIONS

**Applications:** Roof and Wall

**Coverage Widths:** 36"

**Rib Spacing:** 7.2" on center

**Rib Height:** 1 1/2"

**Minimum Slope:** 1/2:12

**Panel Attachment:** Exposed Fastening System

**Gauges:** 24 (standard); 29, 26 and 22 (optional)

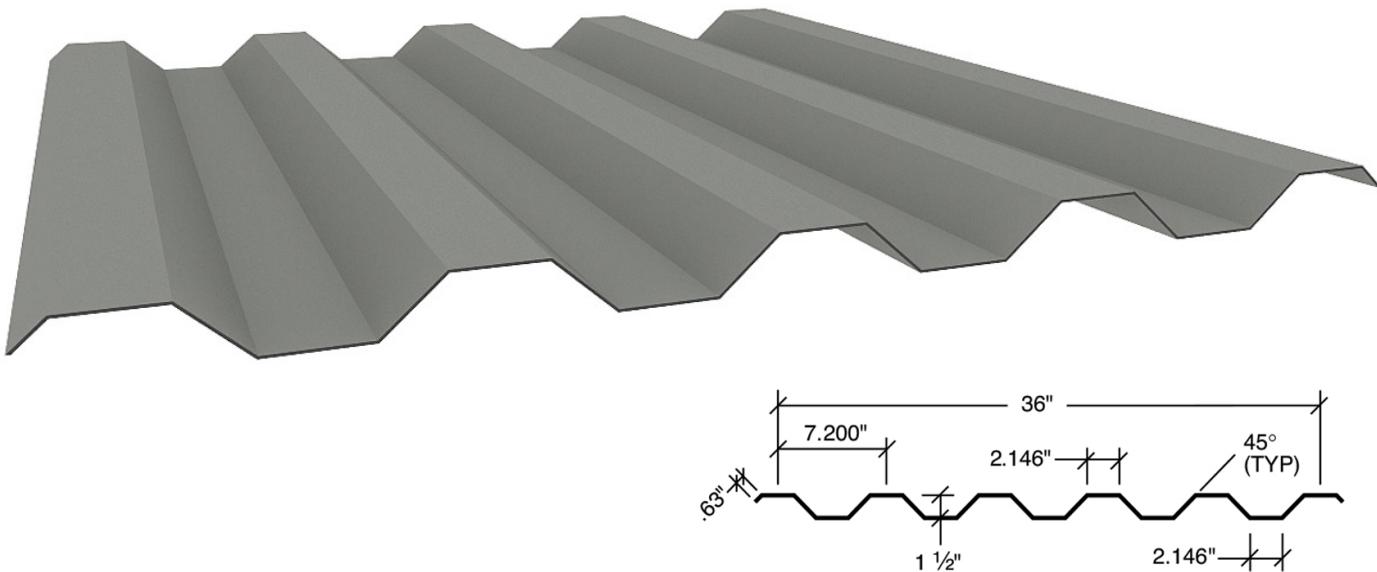
**Finishes:** Smooth (standard); Embossed (optional)

**Coatings:** Galvalume Plus®, Standard Color, Kynar®, Kynar Metallic

When your design calls for a commercial or industrial exposed fastener panel, the 7.2 panel is an ideal choice. This panel offers versatility and functionality for roofs and walls. The symmetrical rib 7.2 panel offers excellent spanning and cantilever capabilities, making it an excellent choice for carports and walkway canopies. When used on walls, the 7.2 panel is typically ordered as "reverse-rolled" and can be installed either vertically or horizontally.

#### FEATURES AND BENEFITS

- UL 580 rating is available, as well as UL 790, Class A for external fire, roof assembly for UL 263 for internal fire and the UL 2218 Class 4 impact rating.
- 7.2 panel carries Florida approval.





## 7.2 PANEL

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
ENVIRONMENTAL	Air Leakage	ASTM E283	Determines the air leakage rates of exterior windows, curtain walls, and doors under specified air pressure differences across the specimen	0.0000 cfm/ft <sup>2</sup> at 6.24 psf static pressure 0.239 cfm/ft <sup>2</sup> at 15.00 psf static pressure
	Water Penetration	ASTM E331	Determines the resistance of exterior windows, curtain walls, skylights, and doors to water penetration when water is applied under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 13.24 psf
	Impact Resistance	UL 2218	Determines Impact Resistance of prepared Roof Covering Materials	Class 4 Rating
FIRE RESISTANCE	Room Fire Performance	UL 790	Standard for Standard Test Methods for Fire Tests of Roof Coverings	See Class A Fire Rating Data Sheet
	Room Fire Performance	UL 263	Standard for Fire Tests of Building Construction and Materials	For use in Design Nos. P225, P227, P230, P237, P265, P268, P508, P510, P512, P701, P711, P720, P722, P726, P731, P734, P801, P815, P819
STRUCTURAL	Uplift Resistance	AISI S100	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Section Properties and Allowable Load Table Section
	Gravity Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
ROOF LISTING	Roof Performance - Underwriters Laboratories	UL 580	Determines the uplift resistance of roof assemblies consisting of the roof and roof coverings materials	Class 90 Rating-Construction Number 244
	Roof Performance - Florida Approval	UL 580 FM 4471 UL 790	Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code.	See FL# 15159

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## FW12™ PANEL

### CONCEALED FASTENING SYSTEMS

#### PRODUCT SPECIFICATIONS

**Applications:** Wall and Fascia

**Coverage Widths:** 12"

**Panel Attachment:** Concealed Fastening System

**Gauges:** 24 (standard); 22

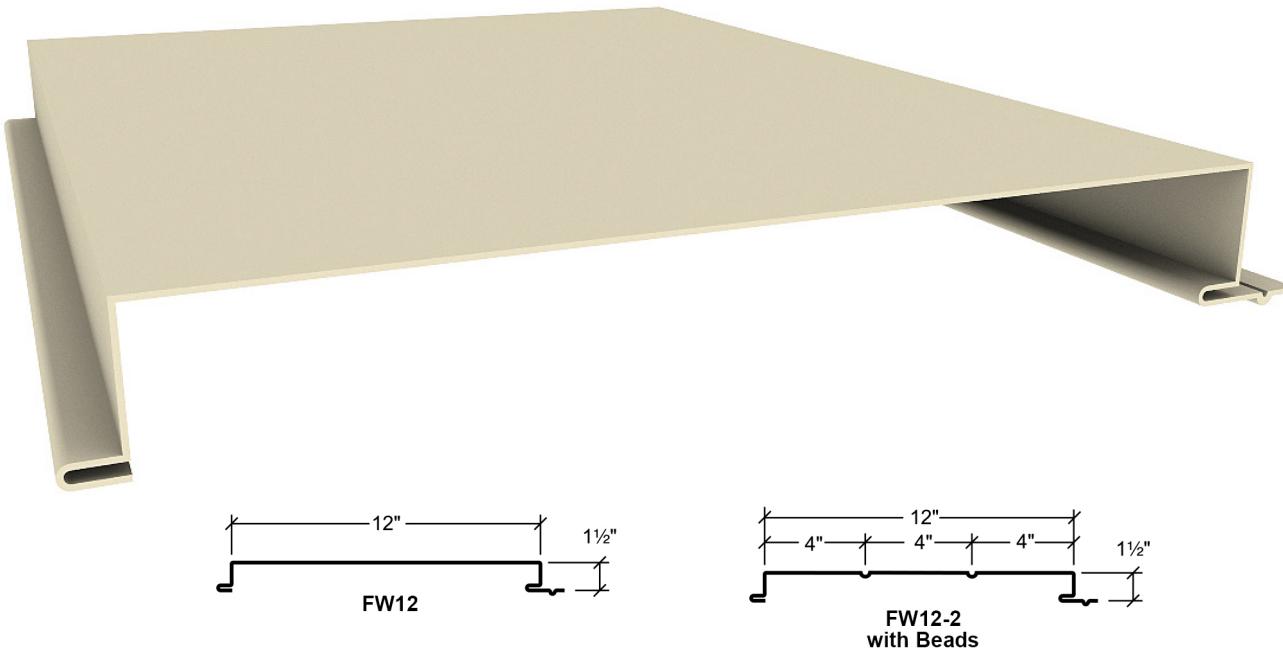
**Finishes:** Smooth (standard); Embossed (optional)

**Coatings:** Kynar®; Fluropón®

The FW12™ panel is a concealed fastener wall and liner panel that provides a flat appearance. FW12™ is commonly used for architectural, commercial and industrial markets. The heavy-gauge offering provides for large spanning capabilities, particularly in composite wall applications.

#### FEATURES AND BENEFITS

- FW12™ is available in a flat profile with no beads or two beads.
- The FW12™ panel has been tested by a certified independent laboratory in accordance with ASTM test procedures for Air Infiltration and Water Penetration at the sidelap. Test results show no air leakage at 1.57 psf and no water penetration at 6.24 psf differential pressure.
- FW12™ carries Florida approval.





## FW12™ PANEL

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
ENVIRONMENTAL	Air Leakage	ASTM E283	Determines the air leakage rates of exterior windows, curtain walls and doors under specified air pressure differences across the specimen	0.000 cfm/ft <sup>2</sup> at 6.24 psf static pressure 0.113 cfm/ft <sup>2</sup> at 20.00 psf static pressure
	Water Penetration	ASTM E331	Determines the resistance of exterior windows, curtain walls, skylights and doors to water penetration when water is applied under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 13.24 psi
STRUCTURAL	Negative Wind Loads	ASTM E1592	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Load Chart Section
	Positive Wind Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
WALL LISTING	Wall Performance - Florida Approval	ASTM E1592	Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code.	See Product Listing

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## A PANEL

### EXPOSED FASTENING SYSTEM

#### PRODUCT SPECIFICATIONS

**Applications:** Wall

**Coverage Widths:** 36"

**Rib Spacing:** 12" on center

**Rib Height:** 1 1/8"

**Panel Attachment:** Exposed Fastening System

**Gauges:** 26 (standard); 22, 24 and 29 (optional)

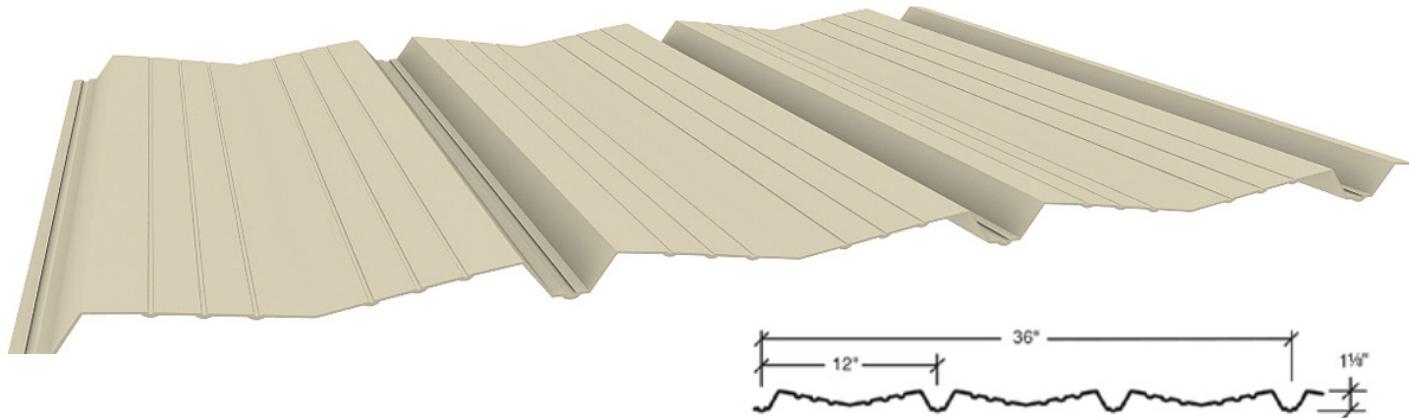
**Finishes:** Smooth (standard); Embossed (optional)

**Coatings:** Galvalume Plus®, Standard Color, Kynar®, Fluropón®

The A panel is used for wall application and features pencil ribs, providing improved aesthetics to the building design.

#### FEATURES AND BENEFITS

- The A panel allows for more insulation to be added behind the panel, providing greater insulating values that meet the energy codes and R-value requirements.
- UL 263 internal fire rating is available.



CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
<b>STRUCTURAL</b>	Negative Wind Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
	Positive Wind Loads	AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	See Section Properties and Allowable Load Table Section
<b>WALL LISTINGS</b>	Wall Performance - Florida Approval	ASTM E 1592	Florida Product Approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with structural requirements of the Florida Building Code	See Product Listing