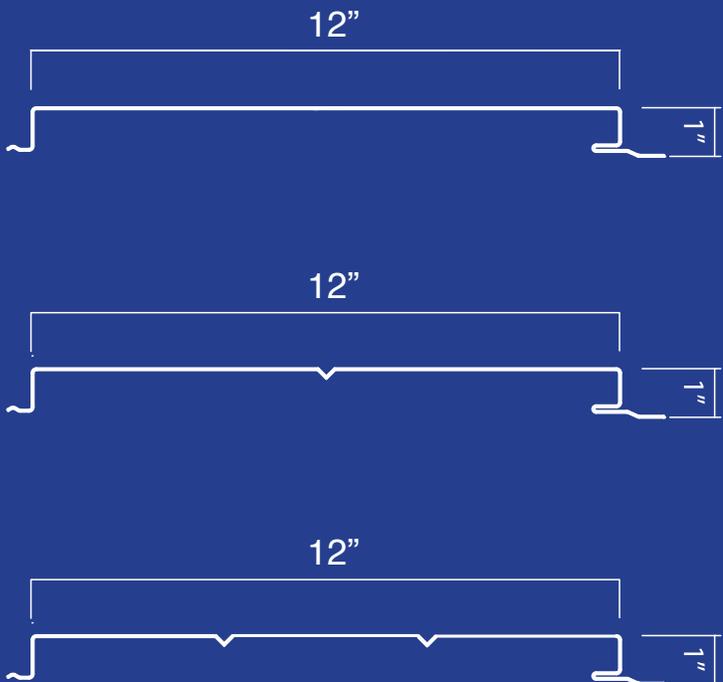




The SWP-12 Soffit-Wall panel is available in smooth and formed surface profiles, flush or reveal at 12" width, 24 gage Grade 50 Galvalume®. SWP-12 is a flexible product to meet every architectural design requirement calling for smooth or perforated panels. Architects choose which product will best meet their needs. The flexibility of our Soffit-Wall panel is that it allows for vertical and horizontal open framing or solid substrate installation. Priced to compete, proven to perform.



Load Span Tables and Section Properties
SWP-12 Section Properties

Gauge	Panel Thickness (in.)	Wt. (psf)	Yield Stress (ksi)		
24	0.0227	1.22	50		
Panel Top in Compression (Positive Bending)			Panel Bottom in Compression (Negative Bending)		
I _{xe} (in ⁴ /ft)	S _{xe} (in ³ /ft)	M _{axo} (in.kip s/ft)	I _{xe} (in ⁴ /ft)	S _{xe} (in ³ /ft)	M _{axo} (in.kip s/ft)
0.0159	0.0294	0.8810	0.0355	0.2038	1.2980

Notes on Section Properties:

1. All calculations for SWP-12 panels are in accordance with the 2007 edition of the North American Specification for Design of Cold-Formed Members.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending determination.
4. M_{axo} is the allowable bending moment.
5. All values are for one foot of panel width.

SWP-12 Span Load Tables - All loads in lbs per sq.ft.

A. 24 Gauge 12" Panel ASTM A792 Grade 50, Class 1

Gauge	Span Condition	Span (ft)			
		2 ft.	3 ft.	4 ft.	5 ft.
24	Single Pos. Load	150 psf	66 psf	36 psf	23 psf
	Double Pos. Load	99 psf	55 psf	35 psf	25 psf
	Triple Pos. Load	116 psf	66 psf	43 psf	30 psf

Notes:

1. Allowable loads are based on uniform span lengths.
2. Allowable loads is limited by bending, shear or combined shear and bending.
3. Above loads consider a maximum deflection ratio L/180.
4. The weight of the panel has not been deducted from the allowable loads listed.
5. The table above is not for use in designing panels to resist wind uplift.
6. See wind load tables for allowable wind uplift.
7. Oil-canning shall not be cause for rejection.
8. The above loads consider web crippling base on a bearing width of 2 inches.

SWP-12 AISI Wind Uplift Design Loads -

All loads in lbs per sq.ft.

24 Gauge		
Span (ft.)	E1592 Load	Design Load
1.0	150.00	75.00
1.5	141.25	70.63
2.0	132.50	66.25
2.5	123.75	61.88
3.0	115.00	57.50
3.5	106.25	53.13
4.0	97.50	48.75
4.5	88.75	44.38
5.0	80.00	40.00

Notes:

1. The above loads were derived from uplift tests done in accordance with ASTM E1592-01
2. All values are interpolated from tests performed on at 1'-0" and 5'-0"
3. Test values are highlighted.
4. The test values were taken from test report #72-0190T-05A and 72-0190T-05B by Force Engineering and Testing project number 08-0026T-09A,B.
5. Design loads are computed using a safety factor of 2.00 per the AISI Specification.

PHYSICAL DESCRIPTION

The SWP-12 Soffit-Wall system will consist of metal panels fastened directly to open framing or solid substrates which form an interlocking concealed seam. Associated components such as perimeter adapters, perimeter trim and flashing have been designed to accommodate most types of structures.

PANEL

The panel will be fabricated from steel which is coated with Galvalume® and factory applied paint. The Galvalume® coated, painted sheet will provide a long-lasting weathering membrane. Galvalume has a proven weather resistance in excess of 20 years. The steel panel is designed to resist wind uplift without the complexity of additional substrates as required by many other soffit or wall materials. The ultimate performance of the SWP-12 panel is determined by the effectiveness of the design of the panel, perimeter seals and panel attachment.

PANEL AND FLASHING MATERIALS

The SWP-12 panel is formed of 50,000 psi minimum yield strength 24 gauge steel (ASTM A792 SS Grade 50 Class 1), coated with AZ 50 (minimum) aluminum/zinc alloy prior to factory applied paint.

The flashing will be 24 or 26 gauge steel, 50,000 psi minimum yield strength (ASTM A792 SS Grade 50 Class 1) coated with AZ 50 aluminum/zinc alloy.

ATTACHMENT

The SWP-12 panel is attached directly to open framing or solid substrate with self-drilling concealed fasteners.

TEST DATA

The SWP-12 panel has been tested to ASTM E1592.

WARRANTY

Twenty-year material warranties are available.

PRODUCT NOTES

“Oil-canning”, a slight waviness inherent in all light gauge metal may exist in the SWP-12 panel. This minor waviness does not affect the finish or structural integrity of the panel and is therefore not cause for rejection.

Galvalume® is an internationally recognized trademark of BIEC International, Inc., and its licensed producers.