

ShadowRib™

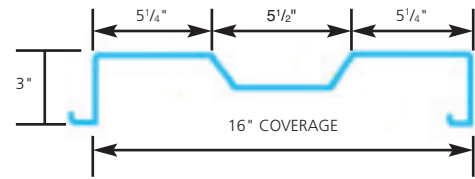


FEATURE

- 1 Concealed fastener panel
- 2 Signature® 200 Series
- 3 Signature® 300 option
- 4 Continuous eave-to-sill panel exceeds 40'0" length
- 5 Optional embossed texture
- 6 Fire rating
- 7 Various wall applications
- 8 Greater panel span
- 9 3" deep wall cavity

BENEFIT

- 1 Enhances architectural application
- 2 25-year finish warranty
- 3 25-year premium paint finish warranty, ultimate resistance to chalking and color changes
- 4 Enhances appearance by eliminating end laps and improves ease of installation.
- 5 Embossing the metal reduces glare and the potential for oil-canning
- 6 Panels carry a UL "Class A" fire rating.
- 7 The panel can be applied to light gauge framing, purlins, girts, structural steel and joist.
- 8 In many instances, the panel can span from floor to ceiling without interior support.
- 9 Ready for application of a variety of insulation methods into the 3" cavity.



PRODUCT DESCRIPTION

Description:

ShadowRib™ combines aesthetics, economics and function to bring definition to metal structures. ShadowRib™ is a proven performer and a versatile tool to the designer.

Gauge:

24 and 22 (22 gauge minimum quantity may be required).

Lengths:

Maximum recommended 40'-0"

Finish:

Galvalume Plus® and Signature® Series

Fasteners:

Concealed fastening system. Panels may be secured to the structure from outside the building with the ShadowRib™/ concealed clip, or from inside the building with an expansion fastener. Both are positive fastening methods that create a secure interlock between panel and structure.

Dimensions:

16" wide by 3" high.

Usage:

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.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 GAUGE (FY = 50 KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET					
		6.0	8.0	10.0	12.0	14.0	16.0
SINGLE	POSITIVE WIND LOAD	113.3	63.7	40.8	28.3	20.8	15.9
	NEGATIVE WIND LOAD	111.9	63.0	40.3	28.0	20.6	15.7
2-SPAN	POSITIVE WIND LOAD	111.9	63.0	40.3	28.0	20.6	15.7
	NEGATIVE WIND LOAD	113.3	63.7	40.8	28.3	20.8	15.9
3-SPAN	POSITIVE WIND LOAD	139.9	78.7	50.4	35.0	25.7	19.7
	NEGATIVE WIND LOAD	141.6	79.6	51.0	35.4	26.0	19.9
4-SPAN	POSITIVE WIND LOAD	130.6	73.5	47.0	32.7	24.0	18.4
	NEGATIVE WIND LOAD	132.2	74.4	47.6	33.0	24.3	18.6

22 GAUGE (FY = 50 KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET					
		6.0	8.0	10.0	12.0	14.0	16.0
SINGLE	POSITIVE WIND LOAD	162.4	91.3	58.5	40.6	29.8	22.8
	NEGATIVE WIND LOAD	149.5	84.1	53.8	37.4	27.5	21.0
2-SPAN	POSITIVE WIND LOAD	149.5	84.1	53.8	37.4	27.5	21.0
	NEGATIVE WIND LOAD	162.4	91.3	58.5	40.6	29.8	22.8
3-SPAN	POSITIVE WIND LOAD	186.8	105.1	67.3	46.7	34.3	26.3
	NEGATIVE WIND LOAD	203.0	114.2	73.1	50.7	37.3	28.5
4-SPAN	POSITIVE WIND LOAD	174.4	98.1	62.8	43.6	32.0	24.5
	NEGATIVE WIND LOAD	189.5	106.6	68.2	47.4	34.8	26.6

SECTION PROPERTIES

PANEL GAUGE	Fy (ksi)	WEIGHT (psf)	NEGATIVE BENDING			POSITIVE BENDING		
			Ixe (in.⁴/ft.)	Sxe (in.³/ft.)	Maxo (kip-in.)	Ixe (in.⁴/ft.)	Sxe (in.³/ft.)	Maxo (kip-in.)
24	50	1.54	0.2336	0.1765	4.5324	0.3226	0.1532	4.5867
22	50	1.97	0.3240	0.2541	6.0528	0.4496	0.2197	6.5759

* Fy is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

ShadowRib® is a registered trademark of the NCI Group.
 GALVALUME® is a registered trademark of BIEC International, Inc.
 Signature® is a registered trademark of the NCI Group.

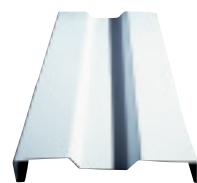
NOTES:

- 1 Allowable loads are based on uniform span lengths.
- 2 LIVE LOAD is limited by bending, shear, combined shear and bending and web crippling.
- 3 NEGATIVE WIND LOAD has been increased by 33.333% and does not consider fastener pull-out or pull-over.
- 4 Panel weight has not been deducted from the allowable loads.

NOTES:

- 1 All calculations for the properties of **ShadowRib™** panels are calculated in accordance with the 2001 edition of the *North American Specification For Design of Cold-Formed Steel Structural Members*.
- 2 **Ixe** is for deflection determination.
- 3 **Sxe** is for bending.
- 4 **Maxo** is allowable bending moment.
- 5 All values are for one foot of panel width.

The engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification For Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This specification contains the design criteria for cold-formed steel components. Along with the specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.



Exceeding Expectations



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Midwestern Region | P.O. Box 72, 305 N. Iris St., Mt. Pleasant, IA 52641 | 319-385-8001

Southern Region | P.O. Drawer 911, 2400 Highway 45 North, Columbus, MS 39703 | 662-328-6722

Division Head Office | P.O. Box 6500, Columbus, MS 39703 | **1-800-474-2326 (CECO)**

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