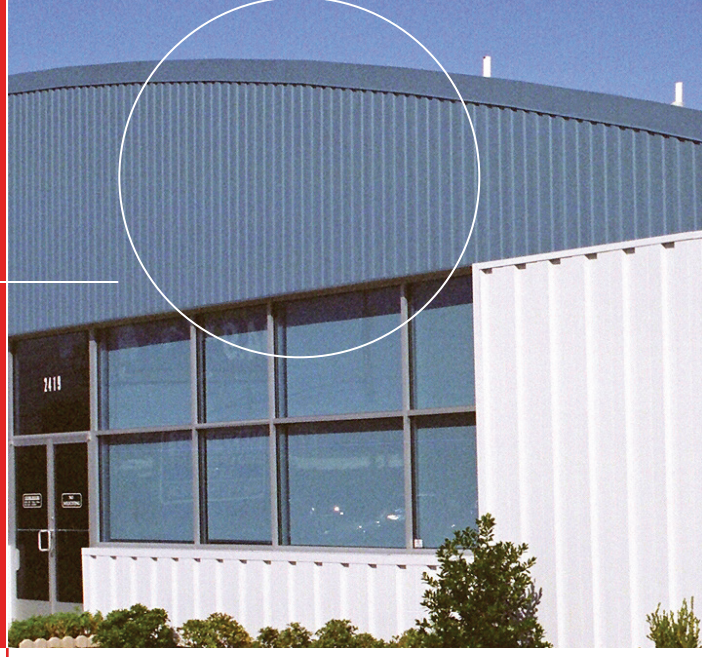
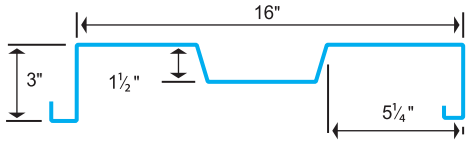
ShadowRib™



	FEATURE	BENEFIT
1	Concealed fastener panel	Enhances architectural application
2	Continuous base-to-eave can exceed 40’0” length	Enhances appearance by eliminating end laps and improves ease of installation
3	Signature® 200 series	Highly durable silicone polyester paint system with excellent color and gloss retention in addition to superior chalk resistance
4	Signature® 300 option	Fluoropolymer paint system offering the ultimate in color retention and superior resistance to chalking, chemical and UV degradation
5	Finish warranty	Used with long-life fasteners, this panel has a 40-year limited warranty
6	Optional embossed texture	Embossing the metal reduces glare and the potential for oil-canning
7	Fire Rating	The panel carries a UL “Class A” fire rating
8	Various wall applications	Panel can be applied to light gauge framing, purlins, girts, structural steel and joists
9	Greater panel span	In many instances, the panel can span from floor to ceiling without interior support
10	3” deep wall cavity	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. The concealed fastening system creates a clean uninterrupted wall.

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

Lengths:
Maximum recommended 40’-0”

Dimensions:
16” coverage by 3” high.

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.

Finish:
Galvalume Plus® and Signature®.

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.

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ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 Gauge (0.0223" Design Thickness), Fy = 50 ksi, Fu = 60 ksi

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-SPAN	NEGATIVE WIND LOAD	137.04	102.78	82.22	68.52	58.73	51.39	40.93
	POSITIVE WIND LOAD	133.18	99.89	79.91	66.59	57.08	49.94	40.49
2-SPAN	NEGATIVE WIND LOAD	54.82	41.11	32.89	27.41	23.49	20.56	18.27
	POSITIVE WIND LOAD	88.32	66.24	52.99	44.16	37.85	33.12	29.44
3-SPAN	NEGATIVE WIND LOAD	62.29	46.72	37.37	31.15	26.70	23.36	20.76
	POSITIVE WIND LOAD	100.36	75.27	60.22	50.18	43.01	37.63	33.45
4-SPAN	NEGATIVE WIND LOAD	59.95	44.97	35.97	29.98	25.69	22.48	19.98
	POSITIVE WIND LOAD	96.60	72.45	57.96	48.30	41.40	36.22	32.20

22 Gauge (0.0286" Design Thickness), Fy = 50 ksi, Fu = 60 ksi

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-SPAN	NEGATIVE WIND LOAD	199.04	149.28	119.42	99.52	85.30	74.64	59.06
	POSITIVE WIND LOAD	212.18	159.14	127.31	106.09	89.77	68.73	54.30
2-SPAN	NEGATIVE WIND LOAD	79.61	59.71	47.77	39.81	34.12	29.86	26.54
	POSITIVE WIND LOAD	140.29	105.22	84.17	70.14	60.12	52.61	46.76
3-SPAN	NEGATIVE WIND LOAD	90.47	67.85	54.28	45.24	38.77	33.93	30.16
	POSITIVE WIND LOAD	159.42	119.56	95.65	79.71	68.32	59.78	53.14
4-SPAN	NEGATIVE WIND LOAD	87.08	65.31	52.25	43.54	37.32	32.65	29.03
	POSITIVE WIND LOAD	153.44	115.08	92.06	76.72	65.76	57.54	51.15

SECTION PROPERTIES

			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	Fy (ksi)	WEIGHT (psf)	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	0.3497	0.1661	4.972	0.2552	0.1643	4.920
22	50	1.97	0.4892	0.2397	7.176	0.3571	0.2204	6.598

* Fy is 80-ksi, reduced in accordance with the 2012 edition of the North American Specification for Design of Cold-formed Steel Structural Members.

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 the 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 codes applicable to the project job site in order to determine environmental loads. If further information or guidance regarding cold-formed design packages is desired, please contact the manufacturer.

Robertson Building Systems reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. For current product information, inquire or visit RobertsonBuildings.com. Application details are for illustration purposes only and may not be appropriate for all conditions, building designs or panel profiles. If there is a conflict between the preceding and project erection drawings, the erection drawings will take precedence.

ALLOWABLE UNIFORM LOADS NOTES

1. Strength calculations based on the 2012 edition of AISI S-100, North American Specification for the Design of Cold-formed Steel Structural Members.
2. Allowable strengths given are applicable for uniform loading and spans without significant overhangs.
3. POSITIVE WIND LOAD allowable strengths shown are for those loads that push the panel into its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports and L/60 deflection under a 10-year recurrence wind load, using a 0.7 conversion factor.
4. NEGATIVE WIND LOAD allowable strengths are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, as well as a deflection limit of L/60 under a 10-year recurrence wind load, using a 0.7 conversion factor.
5. Panel pullover and Screw pullout allowable strengths must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. Effective yield strength (Fy) has been determined in accordance with Section A2.3.2 of AISI-S100.
7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
8. This material is subject to change without notice. Please contact Robertson Building Systems for most current data.

SECTION PROPERTY NOTES

1. All calculations for the properties of ShadowRib Wall panels are calculated in accordance with the 2012 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.

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