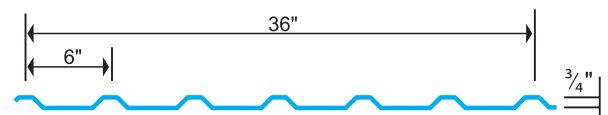


PBU



PRODUCT DESCRIPTION

Description:

This utility panel with 3/4" ribs on 6" centers is especially useful for liners, partitions, soffits, etc.

Dimensions:

36" coverage by 3/4" deep

Gauge:

26 standard - 29, 24 and 22 also available

Lengths:

Maximum recommended length of 40'-0". Longer lengths available upon special order.

Finish:

Galvalume Plus® and Signature®.

Usage:

Roof panel, wall panel, liner panel, partition panel, soffit panel and facade panel. This panel can be installed directly over purlins or joists.

Limitations:

Recommended for roof slopes of 1/2:12 or greater.

FEATURE

1 Reverse rolled profile

2 Galvalume Plus®

3 Signature® 200 Series

4 Signature® 300 option

5 Finish warranty

6 Continuous eave to sill until panel exceeds 40'0" length

7 Face fastener

8 Fire rating

BENEFIT

1 The panel can serve as an alternate wall panel by putting the paint finish on the under side

2 20-year warranty

3 Highly durable siliconized polyester paint system with excellent color and gloss retention in addition to superior chalk resistance

4 Fluoropolymer paint system offering the ultimate in color retention and superior resistance to chalking, chemical and UV degradation

5 Used with long-life fasteners, this panel has a 40-year limited warranty (unless otherwise specified)

6 Attractive with no end laps and ease of installation

7 Yields diaphragm capabilities and girt stability

8 The panel carries a UL "Class A" fire rating

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge (0.0133" Design Thickness), Fy = 60 ksi, Fu = 61.5 ksi

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3	4	5	6	7	8	9
1-SPAN	NEGATIVE WIND LOAD	67.49	37.96	24.30	16.87	11.91	7.98	5.60
	POSITIVE LOAD	48.81	20.59	10.54	6.10	3.84	2.57	1.81
	POSITIVE WIND LOAD	80.84	45.47	29.10	20.21	14.85	11.03	7.75
2-SPAN	NEGATIVE WIND LOAD	78.35	44.67	28.77	20.05	14.76	11.32	8.95
	POSITIVE LOAD	66.02	37.49	24.10	16.78	11.80	7.91	5.55
	POSITIVE WIND LOAD	66.02	37.49	24.10	16.78	12.34	9.46	7.48
3-SPAN	NEGATIVE WIND LOAD	96.65	55.41	35.78	24.97	18.40	14.12	11.17
	POSITIVE LOAD	81.75	46.61	24.37	14.10	8.88	5.95	4.18
	POSITIVE WIND LOAD	81.75	46.61	30.02	20.92	15.40	11.81	9.34
4-SPAN	NEGATIVE WIND LOAD	90.63	51.85	33.46	23.34	17.19	13.19	10.43
	POSITIVE LOAD	76.56	43.59	26.23	15.18	9.56	6.40	4.50
	POSITIVE WIND LOAD	76.56	43.59	28.05	19.54	14.39	11.03	8.72

26 Gauge (0.0181" Design Thickness), Fy = 60 ksi, Fu = 61.5 ksi

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3	4	5	6	7	8	9
1-SPAN	NEGATIVE WIND LOAD	106.10	59.68	38.20	26.52	17.48	11.71	8.22
	POSITIVE LOAD	75.46	31.84	16.30	9.43	5.94	3.98	2.79
	POSITIVE WIND LOAD	133.83	75.28	48.18	33.46	24.58	17.05	11.98
2-SPAN	NEGATIVE WIND LOAD	130.50	74.21	47.74	33.24	24.46	18.75	14.83
	POSITIVE LOAD	104.42	59.14	37.97	26.19	16.49	11.05	7.76
	POSITIVE WIND LOAD	104.42	59.14	37.97	26.42	19.43	14.89	11.77
3-SPAN	NEGATIVE WIND LOAD	161.40	92.19	59.43	41.44	30.45	23.31	17.07
	POSITIVE LOAD	129.63	68.21	34.92	20.21	12.73	8.53	5.99
	POSITIVE WIND LOAD	129.63	73.64	47.35	32.96	24.26	18.59	14.70
4-SPAN	NEGATIVE WIND LOAD	151.20	86.23	55.55	38.71	28.50	21.85	17.28
	POSITIVE LOAD	121.28	68.83	37.30	21.58	13.59	9.11	6.40
	POSITIVE WIND LOAD	121.28	68.83	44.23	30.79	22.65	17.36	13.72

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

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3	4	5	6	7	8	9
1-SPAN	NEGATIVE WIND LOAD	116.62	65.60	41.98	29.15	21.42	15.90	11.17
	POSITIVE LOAD	102.37	43.19	22.11	12.80	8.06	5.40	3.79
	POSITIVE WIND LOAD	127.22	71.56	45.80	31.81	23.37	17.89	14.14
2-SPAN	NEGATIVE WIND LOAD	124.52	70.69	45.44	31.63	23.27	17.84	14.10
	POSITIVE LOAD	114.52	64.93	41.71	29.02	20.38	13.65	9.59
	POSITIVE WIND LOAD	114.52	64.93	41.71	29.02	21.35	16.36	12.93
3-SPAN	NEGATIVE WIND LOAD	154.22	87.90	56.61	39.45	29.04	22.26	17.61
	POSITIVE LOAD	142.04	80.80	43.73	25.31	15.94	10.68	7.50
	POSITIVE WIND LOAD	142.04	80.80	51.98	36.20	26.64	20.42	16.15
4-SPAN	NEGATIVE WIND LOAD	144.41	82.20	52.90	36.85	27.12	20.79	16.44
	POSITIVE LOAD	132.94	75.53	46.46	26.89	16.93	11.34	7.97
	POSITIVE WIND LOAD	132.94	75.53	48.57	33.81	24.88	19.07	15.08

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

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3	4	5	6	7	8	9
1-SPAN	NEGATIVE WIND LOAD	155.91	87.70	56.13	38.98	28.64	21.93	15.67
	POSITIVE LOAD	136.57	57.62	29.50	17.07	10.75	7.20	5.06
	POSITIVE WIND LOAD	171.09	96.24	61.59	42.77	31.42	24.06	19.01
2-SPAN	NEGATIVE WIND LOAD	167.07	94.95	61.06	42.51	31.28	23.98	18.96
	POSITIVE LOAD	152.86	86.72	55.73	38.78	26.14	17.51	12.30
	POSITIVE WIND LOAD	152.86	86.72	55.73	38.78	28.53	21.86	17.29
3-SPAN	NEGATIVE WIND LOAD	206.75	117.99	76.04	53.00	39.03	29.93	23.67
	POSITIVE LOAD	189.46	107.88	56.18	32.51	20.47	13.72	9.63
	POSITIVE WIND LOAD	189.46	107.88	69.44	48.37	35.61	27.30	21.59
4-SPAN	NEGATIVE WIND LOAD	193.65	110.35	71.06	49.52	36.45	27.95	22.10
	POSITIVE LOAD	177.36	100.86	59.64	34.52	21.74	14.56	10.23
	POSITIVE WIND LOAD	177.36	100.86	64.88	45.18	33.25	25.49	20.15

SECTION PROPERTIES

PANEL GAUGE	Fy (ksi)	WEIGHT (psf)	NEGATIVE BENDING			POSITIVE BENDING		
			lxe (in. ⁴ /ft.)	Sxe (in. ³ /ft.)	Maxo (kip-in.)	lxe (in. ⁴ /ft.)	Sxe (in. ³ /ft.)	Maxo (kip-in.)
29	60*	0.75	0.011	0.024	0.911	0.015	0.025	1.091
26	60*	0.94	0.016	0.037	1.432	0.023	0.041	1.807
24	50	1.14	0.022	0.053	1.574	0.032	0.057	1.718
22	50	1.44	0.031	0.070	2.105	0.042	0.077	2.310

* Fy is 80-ksi reduced to 60-ksi in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

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

- Strength calculations based on the 2012 edition of AISI S-100, North American Specification for the Design of Cold-formed Steel Structural Members.
- Allowable strengths given are applicable for uniform loading and spans without significant overhangs.
- POSITIVE 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 span/180 deflection under the identical (strength-level) loads.
- 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 span/60 deflection under a 10-year recurrence wind load, using a 0.7 conversion factor.
- 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 span/60 under a 10-year recurrence wind load, using a 0.7 conversion factor.
- Panel pullover and Screw pullout allowable strengths must be checked separately using the screws employed for each particular application when utilizing this load chart.
- Effective yield strength (Fy) has been determined in accordance with Section A2.3.2 of AISI-S100.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice. Please contact Robertson Building Systems for most current data.

SECTION PROPERTY NOTES

- All calculations for the properties of PBU Roof panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- lxe is for deflection determination.
- Sxe is for bending.
- Maxo is allowable bending moment.
- 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 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 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.

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