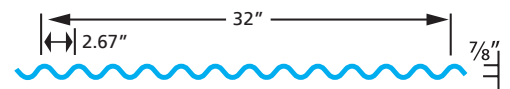


# PBC



## PRODUCT DESCRIPTION

### Description:

The contemporary and industrial looking PBC panel can be used for both roof and wall applications. Often used horizontally, it can also be installed vertically.

### Gauge:

26 (standard); 29, 24, 22 (optional)

### Lengths:

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

### Dimensions:

32" coverage with 7/8" ribs located 2.67" on center.

### Fasteners:

Various self-drilling fasteners depending on application.

### Finish:

Smooth finish (standard); Embossed (optional) Galvalume® Plus, Signature® 200, Signature® 300. Minimum quantities may be required for some colors.

### Usage:

Roof and wall system application.

### Limitations:

Minimum slope of 3:12 recommended for roof application.

## FEATURE

1 Exposed fastener panel

2 Sculptured ribs

3 Continuous eave to sill until panel exceeds 40' in length

4 Signature® 200 series

5 Signature® 300 option

6 Paint warranty

7 Optional embossed texture

## BENEFIT

1 Economical application

2 Provides a textured appearance; reduces the potential for oil canning

3 Eliminating end laps enhances appearance; ease of installation

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

5 Fluoropolymer paint system offers excellent color retention and superior resistance to chalking, chemical and UV degradation

6 Used with long-life fasteners, a 40-year limited warranty is available for most colors

7 Embossing the metal reduces glare and the potential for oil-canning

**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	116.66	65.62	42.00	29.16	21.26	14.24	10.00
	POSITIVE LOAD	63.03	26.59	13.61	7.88	4.96	3.32	2.33
	POSITIVE WIND LOAD	116.66	65.62	42.00	29.16	21.26	14.24	10.00
2-SPAN	NEGATIVE WIND LOAD	114.69	64.99	41.74	29.04	21.36	16.37	12.94
	POSITIVE LOAD	85.02	63.77	32.79	18.98	11.95	8.01	5.62
	POSITIVE WIND LOAD	85.02	63.77	41.74	29.04	21.36	16.37	12.94
3-SPAN	NEGATIVE WIND LOAD	142.32	80.90	52.03	36.23	26.66	20.43	16.16
	POSITIVE LOAD	96.61	50.18	25.69	14.87	9.36	6.27	4.41
	POSITIVE WIND LOAD	96.61	72.46	52.03	36.23	26.66	20.43	16.16
4-SPAN	NEGATIVE WIND LOAD	133.18	75.62	48.61	33.84	24.90	19.08	15.09
	POSITIVE LOAD	92.99	53.27	27.27	15.78	9.94	6.66	4.68
	POSITIVE WIND LOAD	92.99	69.74	48.61	33.84	24.90	19.08	15.09

**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	158.15	88.96	56.94	39.54	28.98	19.42	13.64
	POSITIVE LOAD	85.91	36.24	18.56	10.74	6.76	4.53	3.18
	POSITIVE WIND LOAD	158.15	88.96	56.94	39.54	28.98	19.42	13.64
2-SPAN	NEGATIVE WIND LOAD	155.46	88.10	56.58	39.37	28.96	22.19	17.54
	POSITIVE LOAD	155.46	87.30	44.70	25.87	16.29	10.91	7.66
	POSITIVE WIND LOAD	155.46	88.10	56.58	39.37	28.96	22.19	17.54
3-SPAN	NEGATIVE WIND LOAD	192.89	109.66	70.53	49.11	36.14	27.70	21.90
	POSITIVE LOAD	162.12	68.39	35.02	20.26	12.76	8.55	6.00
	POSITIVE WIND LOAD	192.89	109.66	70.53	49.11	36.14	27.70	21.90
4-SPAN	NEGATIVE WIND LOAD	180.50	102.50	65.89	45.87	33.75	25.87	20.45
	POSITIVE LOAD	172.09	72.60	37.17	21.51	13.55	9.08	6.37
	POSITIVE WIND LOAD	180.50	102.50	65.89	45.87	33.75	25.87	20.45

**24 Gauge (0.0223" 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	161.82	91.03	58.26	40.46	29.72	22.76	16.82
	POSITIVE LOAD	105.98	44.71	22.89	13.25	8.34	5.59	3.93
	POSITIVE WIND LOAD	161.82	91.03	58.26	40.46	29.72	22.76	16.82
2-SPAN	NEGATIVE WIND LOAD	159.03	90.13	57.89	40.28	29.63	22.70	17.95
	POSITIVE LOAD	159.03	90.13	55.14	31.91	20.10	13.46	9.45
	POSITIVE WIND LOAD	159.03	90.13	57.89	40.28	29.63	22.70	17.95
3-SPAN	NEGATIVE WIND LOAD	197.31	112.18	72.16	50.25	36.98	28.34	22.41
	POSITIVE LOAD	197.31	84.37	43.20	25.00	15.74	10.55	7.41
	POSITIVE WIND LOAD	197.31	112.18	72.16	50.25	36.98	28.34	22.41
4-SPAN	NEGATIVE WIND LOAD	184.64	104.86	67.42	46.93	34.53	26.46	20.92
	POSITIVE LOAD	184.64	89.56	45.86	26.54	16.71	11.20	7.86
	POSITIVE WIND LOAD	184.64	104.86	67.42	46.93	34.53	26.46	20.92

**22 Gauge (0.0286" 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	206.48	116.15	74.33	51.62	37.93	29.04	21.62
	POSITIVE LOAD	136.17	57.45	29.41	17.02	10.72	7.18	5.04
	POSITIVE WIND LOAD	206.48	116.15	74.33	51.62	37.93	29.04	21.62
2-SPAN	NEGATIVE WIND LOAD	202.85	114.99	73.86	51.39	37.80	28.96	22.90
	POSITIVE LOAD	202.85	114.99	70.85	41.00	25.82	17.30	12.15
	POSITIVE WIND LOAD	202.85	114.99	73.86	51.39	37.80	28.96	22.90
3-SPAN	NEGATIVE WIND LOAD	251.65	143.11	92.06	64.11	47.18	36.16	28.60
	POSITIVE LOAD	251.65	108.41	55.51	32.12	20.23	13.55	9.52
	POSITIVE WIND LOAD	251.65	143.11	92.06	64.11	47.18	36.16	28.60
4-SPAN	NEGATIVE WIND LOAD	235.50	133.77	86.01	59.88	44.06	33.77	26.70
	POSITIVE LOAD	235.50	115.08	58.92	34.10	21.47	14.39	10.10
	POSITIVE WIND LOAD	235.50	133.77	86.01	59.88	44.06	33.77	26.70

**SECTION PROPERTIES**

PANEL GAUGE	Fy (ksi)	WEIGHT (psf)	NEGATIVE BENDING			POSITIVE BENDING		
			Ixe (in. <sup>4</sup> /ft.)	Sxe (in. <sup>3</sup> /ft.)	Maxo (kip-in.)	Ixe (in. <sup>4</sup> /ft.)	Sxe (in. <sup>3</sup> /ft.)	Maxo (kip-in.)
29	60*	0.84	0.019	0.044	1.575	0.019	0.044	1.575
26	60*	1.06	0.027	0.059	2.135	0.027	0.059	2.135
24	50	1.28	0.033	0.073	2.185	0.033	0.073	2.185
22	50	1.62	0.042	0.093	2.788	0.042	0.093	2.788

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

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 PBC Roof panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- Ixe 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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Corporate Office  
1343 Sandhill Dr., Ancaster, ON L9G 4V5  
800-387-5335 | 905-304-1111 | f 905-304-2420

Western Office  
11318-163 St. NW, Edmonton, AB T5M 1Y6  
780-485-3055 | f 780-461-7785

RobertsonBuildings.com