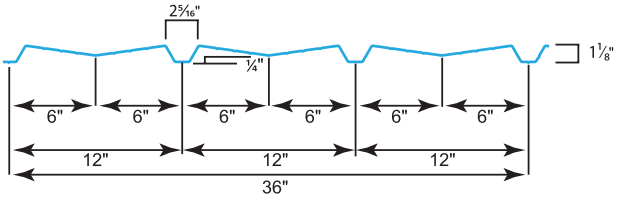
AVP

FEATURE	BENEFIT
1 Semi-concealed fastener panel	1 Attractive architectural application
2 Continuous base to eave. Maximum length of 45’-0” without laps	2 Eliminating end laps improves appearance and enhances ease of installation
3 Signature® 200 Series	3 Highly durable siliconized polyester paint system with excellent color and gloss retention in addition to superior chalk resistance
4 Signature® 300 option	4 Fluoropolymer paint system offering the ultimate in color retention and superior resistance to chalking, chemical and UV degradation
5 Finish warranty	5 Used with long-life fasteners, this panel has a 40-year limited warranty (unless otherwise specified)
6 Pencil Ribs	6 For strengthening of the panel when placed over blanket insulation
7 Optional embossed texture	7 Embossing the metal reduces glare and the potential for oil-canning
8 Fire rating	8 The panel carries a UL “Class A” fire rating



PRODUCT DESCRIPTION

Description:
This architectural panel for walls produces a decorative smooth shadow line, creating a distinctive architectural effect with semi-concealed fasteners.

Dimensions:
Ribs are 1-1/8” deep and major corrugations spaced 12” on center. The net coverage of the panel is 36”.

Gauge:
26 (standard); 22, 24 and 29 (optional)

Lengths:
Maximum recommended length of 45’-0”. Longer lengths available upon special order.

Fasteners:
Standard coated or zinc-aluminum cast head screw.

Finish:
Galvalume Plus® and Signature®.

Usage:
Wall panel, liner panel and facade face panel.

Limitations:
Installation may be difficult with insulation greater than 8” in thickness.

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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						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-SPAN	NEGATIVE WIND LOAD	80.09	45.05	28.83	20.02	14.71	11.26	8.90
	POSITIVE WIND LOAD	77.59	43.64	27.93	19.40	14.25	10.91	8.62
2-SPAN	NEGATIVE WIND LOAD	71.40	41.58	27.06	18.97	14.02	10.77	8.54
	POSITIVE WIND LOAD	42.46	31.85	25.48	19.56	14.46	11.11	8.81
3-SPAN	NEGATIVE WIND LOAD	86.38	50.95	33.38	23.49	17.40	13.40	10.62
	POSITIVE WIND LOAD	48.25	36.19	28.95	24.13	17.94	13.81	10.96
4-SPAN	NEGATIVE WIND LOAD	81.54	47.88	31.30	22.00	16.28	12.53	9.93
	POSITIVE WIND LOAD	46.44	34.83	27.87	22.67	16.78	12.92	10.24

26 Gauge (0.0181" Design Thickness), Fy = 60 ksi, Fu = 61.5 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	112.91	63.51	40.65	28.23	20.74	15.88	12.55
	POSITIVE WIND LOAD	116.22	65.37	41.84	29.05	21.35	16.34	12.71
2-SPAN	NEGATIVE WIND LOAD	110.26	63.42	41.03	28.66	21.13	16.22	12.83
	POSITIVE WIND LOAD	77.50	58.12	39.90	27.86	20.54	15.76	12.47
3-SPAN	NEGATIVE WIND LOAD	134.89	78.27	50.86	35.61	26.30	20.20	16.00
	POSITIVE WIND LOAD	88.06	66.05	49.48	34.64	25.57	19.64	15.55
4-SPAN	NEGATIVE WIND LOAD	126.85	73.38	47.61	33.31	24.58	18.88	14.95
	POSITIVE WIND LOAD	84.76	63.57	46.31	32.39	23.90	18.35	14.53

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	117.14	65.89	42.17	29.28	21.51	16.47	13.02
	POSITIVE WIND LOAD	122.64	68.98	44.15	30.66	22.53	17.25	13.63
2-SPAN	NEGATIVE WIND LOAD	117.44	67.29	43.45	30.32	22.34	17.14	13.56
	POSITIVE WIND LOAD	96.36	64.41	41.56	28.99	21.35	16.38	12.96
3-SPAN	NEGATIVE WIND LOAD	144.19	83.23	53.94	37.71	27.83	21.36	16.91
	POSITIVE WIND LOAD	109.50	79.74	51.62	36.07	26.60	20.42	16.16
4-SPAN	NEGATIVE WIND LOAD	135.42	77.97	50.46	35.26	26.00	19.96	15.80
	POSITIVE WIND LOAD	105.39	74.67	48.28	33.72	24.86	19.08	15.10

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	150.29	84.54	54.10	37.57	27.60	21.13	16.70
	POSITIVE WIND LOAD	156.61	88.10	56.38	39.15	28.77	22.02	17.40
2-SPAN	NEGATIVE WIND LOAD	149.98	85.94	55.49	38.72	28.53	21.89	17.31
	POSITIVE WIND LOAD	144.40	82.63	53.31	37.19	27.40	21.01	16.62
3-SPAN	NEGATIVE WIND LOAD	184.15	106.30	68.88	48.16	35.54	27.28	21.60
	POSITIVE WIND LOAD	175.54	102.28	66.22	46.28	34.13	26.20	20.74
4-SPAN	NEGATIVE WIND LOAD	172.95	99.58	64.45	45.03	33.21	25.49	20.17
	POSITIVE WIND LOAD	166.66	95.79	61.94	43.26	31.89	24.47	19.37

SECTION PROPERTIES

PANEL GAUGE	Fy (ksi)	WEIGHT (psf)	NEGATIVE BENDING Ixe ($in.^4/ft.$)	NEGATIVE BENDING Sxe ($in.^3/ft.$)	NEGATIVE BENDING Maxo (kip-in.)	POSITIVE BENDING Ixe ($in.^4/ft.$)	POSITIVE BENDING Sxe ($in.^3/ft.$)	POSITIVE BENDING Maxo (kip-in.)
26	60*	0.94	0.0262	0.0424	1.5240	0.0247	0.0437	1.5690
24	50	1.14	0.0326	0.0528	1.5810	0.0336	0.0553	1.6560

* 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.

ALLOWABLE UNIFORM LOADS NOTES

1. Strength calculations are based on the 2012 edition of the North American Specification for Design on Cold-Formed Steel Members", with 2009 and 2010 Supplements.
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. WIND PRESSURE load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/60 under 10-year wind loading.
4. WIND SUCTION load capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
5. Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.

SECTION PROPERTY NOTES

1. All calculations for the properties of **AVP** 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.

Robertson Building Systems

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