

AVP

Wall System

The Architectural “AVP” panel for side walls produces a decorative smooth shadow line, creating a distinctive architectural effect with semi-concealed fasteners. Ribs are 11/8” deep and major corrugations are spaced 12” on center. The net coverage of the panel is 3’-0”.

Gauge

26 gauge (standard)
24 gauge

Length

Maximum recommended 40’
Longer lengths available on special order

Dimensions

36” wide by 1 1/8” deep

Finish

Galvalume Plus®
Signature® 200 Colors
Signature® 300 Colors

Fasteners

Standard coated, CAD plated or
zinc-aluminum cast head fastener

Usage

Wall panel, liner panel and façade
panel face

Limitations

Installation may be difficult with very
thick insulation

Attributes

1. Semi-concealed fastener panel
2. Continuous eave to sill until exceeds 40’-0” length
3. Striations
4. Optional embossed texture
5. Signature® 200 and Signature® 300 Color option
6. UL® “Class A” fire rating

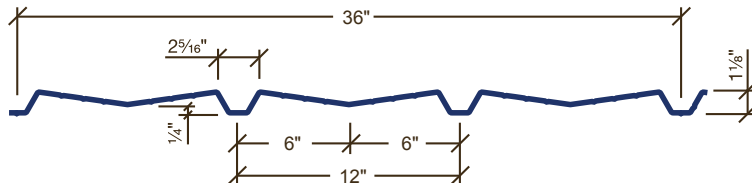
Advantages

1. Attractive architectural application
2. Eliminating end laps improves appearance and enhances ease of installation
3. Reduces the potential for oil canning
4. Reduces glare and the potential for oil canning
5. Premium paint finishes with 25-year warranty
6. AVP carries a UL® “Class A” fire rating

AVP

Wall System

AVP - Measurements



AVP - Section Properties

Panel Gauge	Fy (KSI)	Weight (PSF)	NEGATIVE BENDING			POSTIVE BENDING		
			I _{xe} (IN. 4/FT.)	S _{xe} (IN. 3/FT.)	Maxo (KIP-IN.)	I _{xe} (IN. 4/FT.)	S _{xe} (IN. 3/FT.)	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 to 60-ksi in accordance with the 2001 edition of the North American Specification of Cold-Formed Steel Structural Members - A2.3.2.

Allowable Uniform Loads In Pounds Per Square Foot

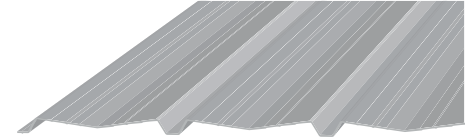
26 Gauge (Fy = 60 Ksi)

Span Type	Load Type	SUPPORT SPACING							
		3.0	4.0	5.0	6.0	7.0	8.0	9.0	
Single	Wind Suction	112.91	63.51	40.65	28.23	20.74	15.88	12.55	
	Wind Pressure	116.22	65.37	41.84	29.05	21.35	16.34	12.71	
2-Span	Wind Suction	110.26	63.42	41.03	28.66	21.13	16.22	12.83	
	Wind Pressure	77.50	58.12	39.90	27.86	20.54	15.76	12.47	
3-Span	Wind Suction	134.89	78.27	50.86	35.61	26.30	20.20	16.00	
	Wind Pressure	88.06	66.05	49.48	34.64	25.57	19.64	15.55	
4-Span	Wind Suction	126.85	73.38	47.61	33.31	24.58	18.88	14.95	
	Wind Pressure	84.76	63.57	46.31	32.39	23.90	18.35	14.53	

24 Gauge (Fy = 50 Ksi)

Span Type	Load Type	SUPPORT SPACING							
		3.0	4.0	5.0	6.0	7.0	8.0	9.0	
Single	Wind Suction	117.14	65.89	42.17	29.28	21.51	16.47	13.02	
	Wind Pressure	122.64	68.98	44.15	29.28	22.53	17.25	13.63	
2-Span	Wind Suction	117.44	67.29	43.45	30.32	22.34	17.14	13.56	
	Wind Pressure	96.36	64.41	41.56	28.99	21.35	16.38	12.96	
3-Span	Wind Suction	144.19	83.23	53.94	37.71	27.83	21.36	16.91	
	Wind Pressure	109.50	79.74	51.62	36.07	26.60	20.42	16.16	
4-Span	Wind Suction	135.42	77.97	50.46	35.26	26.00	19.96	15.80	
	Wind Pressure	105.39	74.67	48.28	33.72	24.86	19.08	15.10	

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.



Properties Notes:

1. All calculations for the properties of AVP panels are calculated in accordance with the 2012 edition of the North American Specification of Cold-Formed Steel Structural Members.
2. **I_{xe}** is for deflection determination.
3. **S_{xe}** is for bending.
4. **Maxo** is allowable bending moment.
5. All values are for one foot of panel width.

Allowable Uniform Loads Notes:

1. Strength calculations based on the 2007 AISI Standard North American Specification of Cold-Formed Steel Structural 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.