



# ARCHITECTURAL “V” RIB PANEL SPECIFICATIONS

## 1. PRODUCT NAME

American Architectural “V” Rib Panels for wall applications.

## 2. MANUFACTURER

### AMERICAN BUILDINGS COMPANY

1150 State Docks Road  
Eufaula, Alabama 36027  
Phone: (334) 687-2032

## 3. PRODUCT DESCRIPTION

These wall panels provide 36” of coverage and reveal a sculptured appearance with semi-concealed fasteners. Rib depth is 1 5/16” on 12” centers.

**Basic Use:** A wall panel system for new or retrofit construction.

**Materials:** Architectural “V” Rib wall panels are available in 29, 26, 24 gage 80,000 psi or 22 gage 50,000 psi and either G90 zinc-coated (galvanized) steel or aluminum-zinc alloy-coated (AZ50 or AZ55) steel. Pre-painted panels have American Buildings Company's Premium 70 Plus (Kynar 500®) Finish. An embossed finish is available as an option. Architectural “V” Rib panels are attached to the secondary framing members by self-drilling carbon steel screws, No. 12 x 1-1/4” hex washer head, cadmium or zinc plated. Architectural “V” Rib panel sidelaps are stitched with self-drilling carbon steel screws, No. 14 x 7/8” cadmium or zinc plated. Fasteners are normally color coordinated with a premium coating system that protects against corrosion and weathering.

Maximum insulation thickness allowed with these panels is 6”.

## 4. TECHNICAL DATA

The Architectural “V” Rib panel has been tested in accordance with Air Infiltration, ASTM E 283 and Water Penetration, ASTM E331. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

## 5. INSTALLATION

Installation should be performed in accordance with American Buildings Company's manuals and building erection drawings, and should be by a qualified installer using proper tools and equipment. Systems are installed by American Buildings Company Authorized Builders.

## 6. AVAILABILITY

For availability, contact:

### AMERICAN BUILDINGS COMPANY

## 7. WARRANTY

Thirty-five Year material warranties are available.

## 8. MAINTENANCE

Only normal routine maintenance is required over the life of the panels.

## 9. TECHNICAL SERVICES

For information, contact:

### AMERICAN BUILDINGS COMPANY

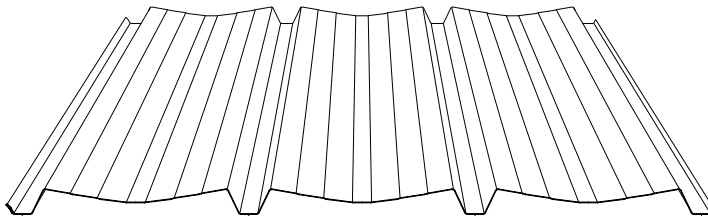
## 10. PRODUCT NOTES

American Buildings Company reserves the right to revise all standard specifications and information. American Buildings Company regularly updates its published “Standard Specifications” on the American Buildings web site, [www.americanbuildings.com](http://www.americanbuildings.com), which supercede and replace any previously published standard specifications of American Buildings Company.

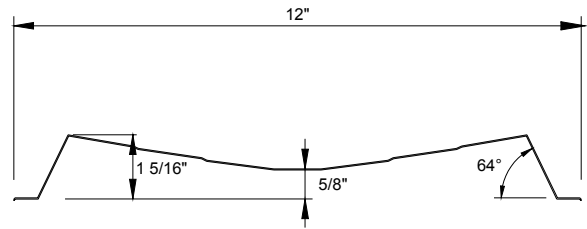
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PANEL PROFILE



PARTIAL CROSS SECTION

Engineering Properties of American Buildings Company Architectural "V" Rib Panel											
Designated Gage of Steel	Steel Yield KSI	Base Metal Thick. (In.)	Total Thick. (In.)	Panel Weight (lbs. / ft. <sup>2</sup> )	Top In Compression			Bottom In Compression			Fb KSI
					Ix (In. <sup>4</sup> / ft.)	Sx (In. <sup>3</sup> / ft.)	Ma K-IN.	Ix (In. <sup>4</sup> / ft.)	Sx (In. <sup>3</sup> / ft.)	Ma K-IN.	
29 Ga.	80	0.0137	0.0153	0.75	0.024	0.028	1.01	0.024	0.032	1.15	36
26 Ga.	80	0.0177	0.0193	0.94	0.033	0.040	1.44	0.033	0.043	1.55	36
24 Ga.	80	0.0225	0.0241	1.17	0.043	0.053	1.91	0.043	0.056	2.02	36
22 Ga.	50	0.0300	0.0316	1.54	0.057	0.074	2.22	0.060	0.076	2.28	30

Gage of Panel	No. of Spans	Load Type	Maximum Total Uniform Load in PSF							
			Span Lengths, Ft.							
			3.00	3.50	4.00	4.50	5.00	6.00	7.00	7.33
29 Ga.	1	POS	61	52	41	32	26	15	9	8
		NEG	-79	-59	-46	-35	-26	-15	-9	-8
	2	POS	54	47	41	36	29	21	15	14
		NEG	-49	-42	-37	-32	-26	-18	-13	-12
	3	POS	62	53	46	41	36	26	18	15
		NEG	-56	-48	-42	-37	-32	-23	-17	-15
	4	POS	60	51	45	40	34	24	18	16
		NEG	-54	-46	-40	-36	-30	-21	-16	-14
26 Ga.	1	POS	104	77	59	47	35	20	13	11
		NEG	-111	-82	-63	-47	-35	-20	-13	-11
	2	POS	88	75	63	50	40	28	21	19
		NEG	-64	-55	-48	-42	-38	-26	-19	-18
	3	POS	100	86	75	62	50	35	24	21
		NEG	-72	-62	-54	-48	-43	-33	-24	-21
	4	POS	96	82	72	58	47	33	24	22
		NEG	-70	-60	-52	-46	-42	-31	-23	-21
24 Ga.	1	POS	139	102	79	62	45	26	17	14
		NEG	-146	-108	-83	-62	-45	-26	-17	-14
	2	POS	137	107	82	65	53	37	27	25
		NEG	-81	-69	-61	-54	-49	-35	-26	-24
	3	POS	156	132	102	81	66	46	31	27
		NEG	-92	-79	-69	-61	-55	-44	-31	-27
	4	POS	150	124	96	76	62	43	32	29
		NEG	-89	-76	-66	-59	-53	-41	-30	-27
22 Ga.	1	POS	161	119	92	72	59	34	22	19
		NEG	-166	-122	-94	-74	-60	-36	-23	-20
	2	POS	164	121	93	74	60	42	31	28
		NEG	-114	-98	-86	-72	-59	-41	-30	-27
	3	POS	202	150	116	92	75	52	38	35
		NEG	-130	-111	-98	-87	-73	-51	-37	-34
	4	POS	190	141	109	86	70	49	36	33
		NEG	-125	-107	-94	-83	-68	-48	-35	-32

- The panels were checked for bending, shear, combined bending and shear, deflection, web crippling, and panel pullover. Deflection was limited to span/120
- Section Properties have been calculated in accordance with the 2001 *North American Specification for the Design of Cold-Formed Steel Structural Members*.
- Minimum yield strength of 29, 26 and 24 gage steel is 80,000 psi. Minimum yield strength of 22 gage steel is 50,000 psi.
- Steel panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness was used in determining section properties.
- Positive load (POS) is applied inward toward the panel supports and is applied to the outer surface of the full panel cross-section. Negative load (NEG) is in the opposite direction.