

ARCHITECTURAL III PANEL SPECIFICATIONS

1. PRODUCT NAME

American Architectural III 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" width coverage with a decorative shadow line and semi-concealed fasteners. Rib height is 1 ¼" on 12" centers.

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

Materials: Architectural III wall panels are available in 29, 26, 24 gage 80,000 psi or 22 gage 50,000 psi in either G90 zinc-coated (galvanized) steel or aluminum-zinc alloy-coated (AZ50 or AZ55) steel. Pre-painted Panels have American Buildings Company's SmartKote® (PVDF) or SP-COOL™ (Silicone-Polyester) Finish. An embossed finish is available as an option. Architectural III 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 III panel sidelaps are stitched with self-drilling carbon steel screws, No. 14 X 3/4" 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 III panel has been tested in accordance with Air Infiltration, ASTM E 283 and Water Penetration, ASTM E331. The Architectural III panel has also been Miami-Dade County approved. 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:

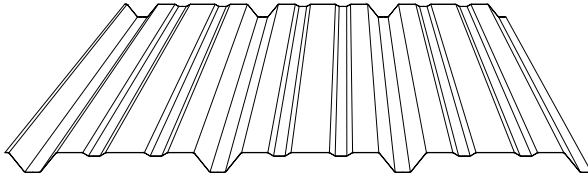
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10. PRODUCT NOTES

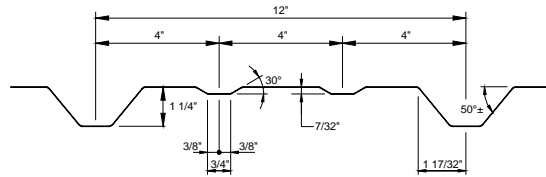
American Buildings Company reserves the right to revise all standard specifications and information. American Buildings Company regularly updates its published "Standard Specifications" on the American Buildings web site, www.americanbuildings.com, which supercede and replace any previously published standard specifications of American Buildings Company.

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PANEL PROFILE



PARTIAL CROSS SECTION

Engineering Properties of American Buildings Company Architectural III Panel											
Designated Gage of Steel	Steel Yield KSI	Base Metal Thick. (In.)	Total Thick. (In.)	Panel Weight (lbs. / ft. ²)	Top In Compression			Bottom In Compression			Fb KSI
					Ix (in. ⁴ / ft.)	Sx (in. ³ / ft.)	Ma K-IN.	Ix (in. ⁴ / ft.)	Sx (in. ³ / ft.)	Ma K-IN.	
29 Ga.	80	0.0137	0.0153	0.74	0.026	0.035	1.27	0.030	0.025	0.91	36
26 Ga.	80	0.0177	0.0193	0.94	0.035	0.046	1.66	0.043	0.037	1.34	36
24 Ga.	80	0.0225	0.0241	1.17	0.047	0.059	2.14	0.060	0.054	1.95	36
22 Ga.	50	0.0300	0.0316	1.53	0.070	0.081	2.44	0.083	0.085	2.56	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	7.50	
29 Ga.	1	POS	76	65	53	42	34	23	17	15	
		NEG	-67	-49	-38	-30	-24	-17	-12	-11	
	2	POS	46	40	35	29	23	16	12	11	
		NEG	-49	-42	-37	-33	-30	-22	-17	-15	
	3	POS	53	45	39	35	29	20	15	13	
		NEG	-56	-48	-42	-37	-34	-26	-19	-17	
	4	POS	51	43	38	33	27	19	14	12	
		NEG	-54	-46	-40	-36	-32	-26	-19	-17	
26 Ga.	1	POS	122	91	69	55	44	31	23	20	
		NEG	-99	-73	-56	-44	-36	-25	-18	-16	
	2	POS	75	64	54	43	35	24	18	16	
		NEG	-64	-55	-48	-42	-38	-30	-22	-19	
	3	POS	85	73	64	53	44	30	22	20	
		NEG	-72	-62	-54	-48	-43	-36	-28	-24	
	4	POS	82	70	61	50	41	28	21	18	
		NEG	-70	-60	-52	-46	-42	-35	-26	-23	
24 Ga.	1	POS	158	116	89	70	57	40	29	25	
		NEG	-145	-106	-81	-64	-52	-36	-27	-23	
	2	POS	117	100	80	63	52	36	26	23	
		NEG	-81	-69	-61	-54	-49	-39	-29	-25	
	3	POS	133	114	99	79	64	45	33	29	
		NEG	-92	-79	-69	-61	-55	-46	-36	-31	
	4	POS	128	110	93	74	60	42	31	27	
		NEG	-89	-76	-66	-59	-53	-44	-34	-29	
22 Ga.	1	POS	180	133	102	80	65	45	33	28	
		NEG	-189	-139	-107	-84	-68	-47	-35	-30	
	2	POS	166	136	105	83	67	47	35	30	
		NEG	-114	-98	-86	-76	-64	-45	-33	-29	
	3	POS	188	161	130	103	84	59	43	38	
		NEG	-130	-111	-98	-87	-78	-56	-41	-36	
	4	POS	181	155	122	97	79	55	40	35	
		NEG	-125	-107	-94	-83	-75	-52	-38	-34	

- The panels are checked for bending, shear, combined bending and shear, deflection, web crippling and panel pullover. Deflection is limited to span/60, with the wind load permitted to be taken as 0.7 times the "component & cladding" loads as noted in footnote f of IBC Table 1604.3.
- Section Properties are calculated in accordance with the 2007 *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 is 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.