

1. PRODUCT NAME

AMS Shadow Panel for wall applications.

2. MANUFACTURER

ARCHITECTURAL METAL SYSTEMS

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

3. PRODUCT DESCRIPTION

These 16" net width embossed panels have deep-fluted profiles that accent contrasting shadow patterns. Panels are 3" deep and are fastened to the framework from the inside leaving no exposed fasteners.

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

Materials: Shadow Panels are embossed 24 gage 50,000 psi either G90 zinc-coated (galvanized) or AZ50 aluminum-zinc alloy-coated steel. Pre-painted panels have Architectural Metal Systems' SmartKote (Kynar 500®) Finish. Shadow Panels are fastened to the supporting members from the inside, totally concealing the fasteners. Fasteners are carbon steel, with yellow chromate over zinc plate finish, No. 12 x 1" self-drilling hex head screws with special 1/2" x 1" rectangular locking nuts.

4. TECHNICAL DATA

This panel has been tested in accordance with Air Infiltration, ASTM E283 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:

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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:

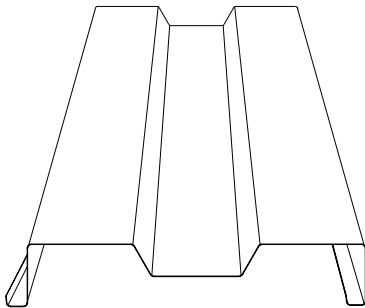
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10. PRODUCT NOTES

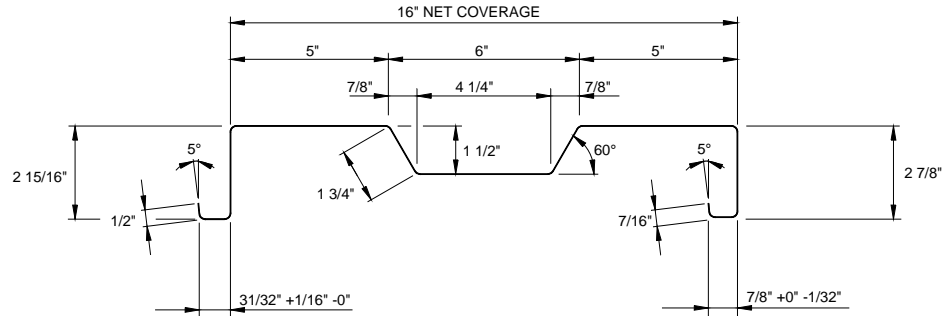
Architectural Metal Systems reserves the right to revise all standard specifications and information. Architectural Metal Systems regularly updates its published "Standard Specifications" on the Architectural Metal Systems web site, www.ametalsystems.com, which supercede and replace any previously published standard specifications of Architectural Metal Systems.

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SHADOW PANEL SPECIFICATIONS



PANEL PROFILE



CROSS SECTION

Engineering Properties of Architectural Metal Systems Standing Seam II 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.	
24 Ga.	50	0.0225	0.0241	1.57	0.282	0.162	4.86	0.374	0.162	4.86	30

Gage of Panel	No. of Spans	Load Type	Maximum Total Uniform Load in PSF							
			Span Lengths, Ft.							
			3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
24 Ga.	1	POS	79	59	47	39	34	30	26	24
		NEG	-279	-173	-116	-83	-62	-48	-39	-31
	2	POS	88	66	53	44	38	33	29	26
		NEG	-252	-161	-111	-80	-61	-47	-38	-31
	3	POS	100	75	60	50	43	37	33	30
		NEG	-285	-187	-131	-96	-73	-58	-46	-38
	4	POS	96	72	58	48	41	36	32	29
		NEG	-275	-179	-124	-91	-69	-54	-44	-36

- The panels were checked for bending, shear, combined bending and shear, deflection and web crippling. 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 24 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.