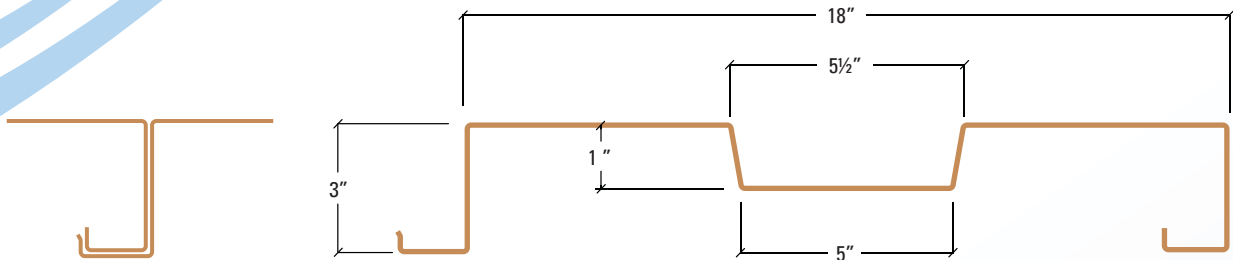


# ***SHADOW WALL-18***

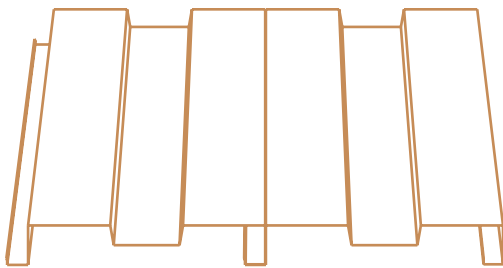
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## SHADOW WALL - 18



Side Lap Detail



Two Panels Shown Above

SHADOW WALL-18 DESIGN PROPERTIES						
PANEL GAUGE	F <sub>y</sub> (KSI)	Weight (PSF)	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
			I <sub>x</sub> (In <sup>4</sup> /Ft)	M <sub>a</sub> (Kip-In./Ft)	I <sub>x</sub> (In <sup>4</sup> /Ft)	M <sub>a</sub> (Kip-In./Ft)
24	50	1.52	0.3593	6.4820	0.3873	5.2007
22	50	1.95	0.3907	7.5640	0.5507	7.6760

**NOTES:**

1. All section properties are calculated in accordance with the 2007 edition of the North American Specification for Design of Cold-Formed Steel Structural Members.
2. I<sub>x</sub> is for deflection determination.
3. M<sub>x</sub> is allowable bending moment.

### MATERIALS

Unless otherwise specified, the exposed surfaces of all panels shall be either clear acrylic coated or factory painted GALVALUME®. GALVALUME® is a zinc-aluminum alloy coating that is applied to the base steel material. Acrylic coated GALVALUME® shall have a Coating Class AZ55 (0.55 ounces (combined total of both sides) per square foot). Factory painted GALVALUME® shall have a minimum Coating Class AZ50 (0.50 ounces (combined total of both sides) per square foot). GALVALUME® coated steel for panels shall conform to ASTM A792, Structural Quality. The 24 and 22 gauge panels shall conform to Grade 50 (50 ksi minimum yield strength). All material shall be ordered to a minimum decimal thickness. Minimum ordered thickness for coated steel products always includes the thickness of the coating.

### PAINTED FINISH

All painted GALVALUME® shall be factory coated by a firm which coats coil products exclusively. The coater shall be responsible for ensuring color consistency, paint film hardness, and paint film thickness. Each side of the GALVALUME® will be coated with 0.2 mils baked-on primer before the color coating. The panel shall receive a KYNAR 500® Fluoropolymer finish coat on the exposed side. Thickness of the finish coat will be a nominal 1.0 mils (including the primer coat). A baked-on straight polyester wash coat will be applied on the non-exposed side. Thickness of the wash coat will be a nominal 0.5 mils (including the primer coat).

### LIMITED MATERIAL WARRANTY

Specific conditions concerning each finish shall be covered in detail on the written warranty issued, on request, with each order. GALVALUME® panels shall have a twenty-five year limited warranty providing that GALVALUME® panels will not rupture, fail structurally, or perforate within a period twenty-five years after shipment due to exposure to normal atmospheric corrosion. The clear acrylic finish does not carry a warranty. The factory coated GALVALUME® panel shall have a thirty-year limited color finish warranty from excessive chalking and color change (fading), peeling and cracking. The wash coat does not carry a warranty.

### WALL PANELS

Panel coverage will be 18" to the weather. Maximum panel length shall be 40'-0". Panels may be spliced using special splice trim for continuous runs over 40'-0". The panel must not rest on the concrete foundation; the panel must sit 1/8" above the concrete. Panels shall be furnished square cut. Panels shall be secured to intermediate framing members with special required concealed side lap fasteners, or optionally with 16 gauge attachment angles and self-drilling fasteners.

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(877) 875-0077

**Freeport, MN**  
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