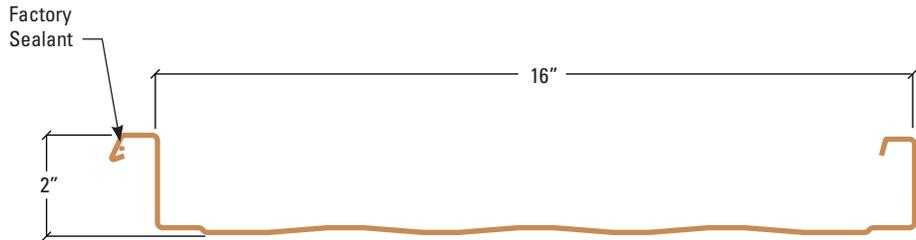


# ***WEATHER LOK-16***

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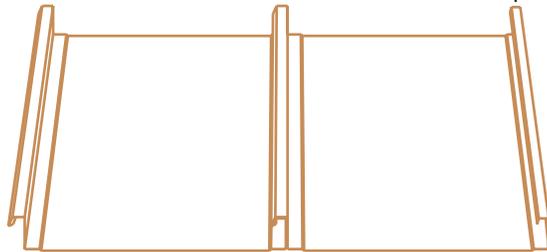


## WEATHER LOK-16



Unseamed side lap

Mechanically Seamed side lap



Two Panels Shown Above

WEATHER LOK-16 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	1.23	0.1478	2.7134	0.1553	2.8852
22	50	1.56	0.1950	3.6264	0.1950	3.6264

**NOTES:**

- All section properties are calculated in accordance with the 2007 edition of the *North American Specification For Design Of Cold-Formed Steel Structural Members*.
- I<sub>x</sub> is for deflection determination.
- 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. Minimum roof slope - 1/4:12. 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.

### ROOF PANELS

Panel coverage will be 16" to the weather and shall be mechanically side seamed together by a factory supplied seaming machine. A factory applied bead of non-skinning butyl sealant shall be placed in the female side of the corrugation. Maximum panel length shall be 45'-0". Where endlaps are required, they shall be 2" and shall occur uphill of a purlin. Weather Lok-16 roof panels are a part of a roof system. All of the components of the roof system (clips, end dams or ridge channels, back-up plates, etc.) must be factory furnished for any warranty or uplift considerations. All roof systems shall be installed in accordance with the Whirlwind Erection Manual. A roof installed as listed in UL Construction No. 506 shall meet the requirements of Underwriters Laboratories standard UL 580 Class 90 for uplift resistance. Weather Lok-16 has been tested and meets the Factory Mutual Research Standard 4471 (1995) Approval requirements for Class 1 Panel Roofs when installed as described in the current edition of the Factory Mutual Research Approval Guide. This Approval includes Class 1-90 wind uplift rating, Class 1A Fire Classification and Class SH Hail Resistance. Panels shall be secured to intermediate framing members with clips at each purlin. Panels shall be furnished square cut.

- **UL CONSTRUCTION NO. 506**
- **UL 580 UP-LIFT TESTED CLASS 90 RATED**
- **UL 2218 HAIL IMPACT RESISTANT TESTED INCLINED: UNLIMITED IMPACT: CLASS 4**
- **FLORIDA PRODUCT APPROVAL FL# 5886**

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