



STEEL BUILDINGS, INC.

## WEATHER SNAP 16

### 1. PRODUCT NAME

Whirlwind Building Components  
Architectural Standing Seam Roof System  
Weather Snap 16



### 2. MANUFACTURER

Whirlwind Building Components

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500 Whirlwind Drive  
Freeport, MN 58331  
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### 3. PRODUCT DESCRIPTION

#### Basic Use:

For roofing new buildings or re-roofing existing buildings of any type. Panels are attached to the sub-structure with concealed clips that allow for thermal movement of the panels. Panels are available with a Class 90 UL uplift rating.

The panels are produced with 1 3/4" high major pencil ribs at 16" centers. The panels come with striations and standard in lengths up to 45'-0". This snap together system does not require an electric seamer.



#### Materials:

##### Standard panel material

- 24 gauge steel coated both sides with a layer of (Galvalume®) aluminum-zinc alloy (approximately 55% aluminum and 45% zinc) applied by the continuous hot-dip method. Triple spot test per ASTM A-792.

- Trinar 500 colored panels are Galvalume® based material. The exterior is given a finish coat of 70% minimum Kynar 500 PVF formulation, applied over a properly treated and primed surface. The exterior coat is 0.75 mils minimum thickness. The total exterior film thickness including primer is 0.90 to 1.10 mils thick. The interior finish is a pigmented polyester backer or water base primer.

##### Clip Material

- Clips are die formed 18 gauge Galvanized steel. The UL-90 clip base has 2 holes to accommodate attachment to the substrate.

##### Flashing Material

- The flashing material is the same gauge, color and finish as the panel.

##### Panel Mastic

- Panel side laps have Acryl-R a factory applied non-drying permanently ductile acrylic sealant. This material meets the requirements of Federal specification #TT-C-1796A, Type 1 Class A. This material is also USDA approved. Service temperature is from -60° to +200° F.

- Panel endlaps, ridge, gable and eave sealers are butyl-based pressure sensitive tape mastic that is non-staining, non-corrosive, non-volatile and non-toxic. The tape is 100% polyisobutylene-isoprene (butyl rubber) meeting the performance requirements of Federal Specification TT-C-1796A. Service temperature is from -40° to +180° F.
- All gutter joints, downspout joints, rake, eave and ridge flashing laps are sealed with Schnee-Morehead SM7100 or equivalent, meeting or exceeding the test requirements of TT-S-00230C, Type II, Class A.



#### Corporate Head Quarters

8234 Hansen Road,  
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WEATHER SNAP -16 DESIGN PROPERTIES						
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
			Ix (In4/Ft)	Ma (Kip-In/Ft)	Ix (In4/Ft)	Ma (Kip-In/Ft)
24	50	1.26	0.0803	1.6467	0.0855	1.7817

**NOTES:**

- All section properties are calculated in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- Ix is for deflection determination.
- Mx is allowable bending moment.

**Fasteners**

- Fasteners for connecting clips to wood are #12 x 1" Type A #2 Phillips pancake Head (2 per clip).
- Fasteners for connecting clips to purlins are #12 x 1" #2 Phillips head self drillers (2 per clip).

**Light Gauge Structural System:**

**Basic Use**

Light gauge structural steel secondary framing components for the roofing system including studs, eave struts, cees and zee sections also runners for structural supports at desired roof pitches.

**Composition and Materials**

Studs, cee and zee sections, eave struts and runners are a minimum of 16 gauge steel. All material comes standard with a shop applied red oxide primer. All steel meets or exceeds the requirements of ASTM A 1011 and has minimum yields of 55,000 psi.

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**4. TECHNICAL DATA**

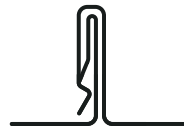
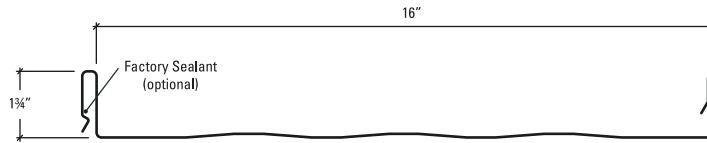
**Physical Properties:**

**Paint System (Kynar - 500)**

- Specular Gloss (60° Head): ASTM D 523 - 25% to 40%.
- Pencil Hardness: ASTM D 3363 -HB
- Bend Adhesion: ASTM D4145 - 1T, no loss of adhesion.
- Impact Adhesion: ASTM D 2794 - 5/8" steel ball - Impact of 80 inch-pound - no loss of adhesion.
- Cross Hatch Adhesion: ASTM D 3359-no loss of adhesion.

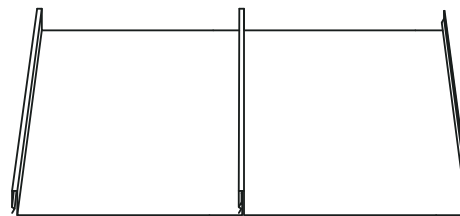
**Paint System Field Performance**

- Film integrity: 35 years with no blistering, peeling or cracking.



Side Lap Detail

**Weather Snap-16 Snap-Lock Standing Seam Roof Panel**



Two Panels Show Above

- Chalk Resistance: ASTM D 4214-3000 hours-Weatherometer-rating no greater than #8.
- Color Change: ASTM D 2244-3000 hours-Weatherometer no more than 2 NBS units.

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**5. INSTALLATION**

- Minimum roof slope to be no less than 3:12. Panels are joined at the sidelaps with an interlocking seam standing 1 3/4" above the roof plane. Sidelaps have factory applied mastic sealer and are snapped together without the use of a seaming tool. Installation is in conjunction with light gauge structural framing or a solid substrate.

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**6. AVAILABILITY AND COST**

Whirlwind Building Components  
8234 Hansen Road  
Houston, TX 77075  
Phone: (800) 324-9992

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**7. WARRANTY**

Available warranties include 25 year material and 20 year weather tightness, providing for repair or stoppage of any leaks caused by normal wear and tear. Paint finish warranties up to 35 years also are available.

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**8. MAINTENANCE**

Only normal routine maintenance is required. Roofs should be inspected yearly and gutters cleaned as needed.

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**9. TECHNICAL SERVICES**

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**10. FILING SYSTEMS**

Galvalume® is a registered trademark of BIEC International, Inc.

Kynar 500® is a registered trademark of Elf Autochem North America, Inc.

