



STEEL BUILDINGS, INC.

## 24 Ga. 7.2/7.2N RIB

### 1. PRODUCT NAME

Whirlwind Building Components  
Commercial Roof and Wall System  
24 Ga. 7.2/7.2N Rib Panel



### 2. MANUFACTURER

Whirlwind Building Components

8234 Hansen Road  
Houston, TX 77075  
Phone: (800) 324-9992  
Fax: (832) 553-4700

2175 Sweetwater Industrial Blvd.  
Lithia Springs, GA 30122  
Phone: (800) 363-8142  
Fax: (770) 739-1226

2450 E.L. Anderson Blvd.  
Claremore, OK 74017  
Phone: (877) 875-0077  
Fax: (918) 343-7114

500 Whirlwind Drive  
Freeport, MN 58331  
Phone: (888) 836-7203  
Fax: (320) 836-7201

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### 3. PRODUCT DESCRIPTION

#### Basic Use:

For roofing new buildings or retrofitting existing buildings. Panels are attached to the sub-structure with exposed fasteners. Panels are available with a Class 90 UL uplift rating.

The panels are produced with 1 1/2" high major ribs at 7.2" centers and the panels coverage is 36" for 7.2 Rib and 28.8 for 7.2N Rib.



#### 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.

- The panels are also available in the Silicone Polyester paint system.

##### Flashing Material

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

##### Panel Mastic (Optional)

- Panel side laps, 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 SM7108 or equivalent, meeting or exceeding the test requirements of TT-S-00230C, Type II, Class A.

##### Fasteners

- Fasteners for connecting panels to purlins or girts (when insulation thickness is 3" or less) are #12 x 1 1/4 " self-drilling screws with long life hex heads and washer or #12 x 1 1/2" self-drilling screws with long life hex head and washer (when insulation thickness is between 3" and 6").

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#### Corporate Head Quarters

8234 Hansen Road,  
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www.WhirlwindSteel.com

7.2 / 7.2N 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> (In-Kip)	I <sub>x</sub> (In. <sup>4</sup> -Ft.)	M <sub>a</sub> (In-Kip)
29	60*	0.71	0.0460	1.7500	0.0430	1.4833
26	60*	0.87	0.0630	2.5433	0.0593	2.1400
24	50	1.14	0.0953	3.4733	0.0950	3.1533
22	50	1.47	0.1300	4.9100	0.1300	4.4167

\* F<sub>y</sub> is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification for Design Of Cold-Formed Steel Structural Members - A2.3.2.

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.
- I<sub>xe</sub> is for deflection determination.
- M<sub>x</sub> is allowable bending moment.

**4. TECHNICAL DATA**

Physical Properties:

Paint System (Kynar -500 Only)

- 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-pounds - no loss of adhesion.
- Cross Hatch Adhesion: ASTM D 3359 - no loss of adhesion.

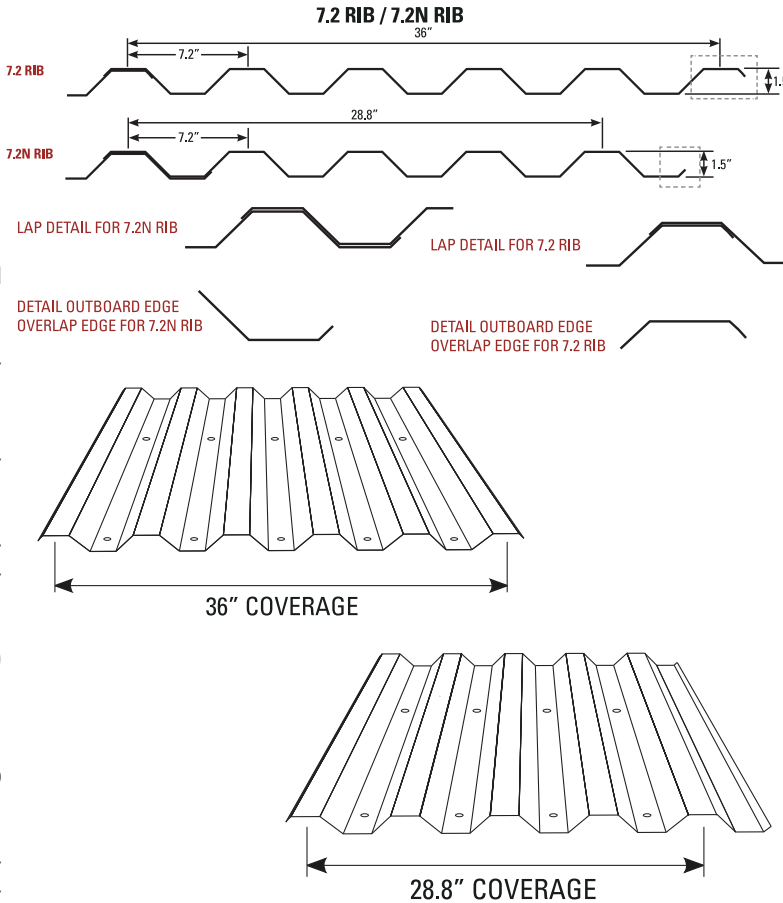
Paint System Field Performance

- Film integrity: 35 years with no blistering, peeling or cracking.
- Chalk Resistance: ASTM D 4214-3000 hours-Weatherometer-ratting no greater than #8.
- Color Change: ASTM D 2244-30000 hours-Weatherometer no more than 2 NBS units.

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**5. INSTALLATION**

- Minimum roof slope to be no less than 1/4:12.
- The panel is designed to end-lap easily without the need for notching or cinch straps. Endlap to be 4" minimum.
- The 7.2 and 7.2N Panels can be used in wall applications in the same manner as a roof applications.



- In roof applications, Whirlwind recommends that the 7.2 and 7.2N Panel endlap occurs over the purlin. There should be one run of tape sealer in the endlap.

**6. AVAILABILITY AND COST**

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

**7. WARRANTY**

Available warranties include 25 year base material and paint 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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8234 Hansen Road  
Houston, TX 77075  
Phone: (800) 324-9992  
Website: www.WhirlwindSteel.com

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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.

