



STEEL BUILDINGS, INC.

24 Ga. SUPER SPAN / SUPER SPAN X

1. PRODUCT NAME

Whirlwind Building Components
Commercial Roof and Wall System
24 Ga. Super Span X 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



- 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").

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.

- 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.

3. PRODUCT DESCRIPTION

Basic Use:

For roof and walls for new buildings and retrofitting existing metal 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 1/4" high major ribs at 12" centers and the panel coverage is 36".

- 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.



Corporate Head Quarters

8234 Hansen Road,
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www.WhirlwindSteel.com

SUPER SPAN / SUPER SPAN X 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)
26 (t=.0170")	60*	0.83	0.0370	1.2697	0.0323	1.6610
26 (t=.0176")	60*	0.86	0.0380	1.4057	0.0337	1.7230
24	50	1.09	0.0570	1.7500	0.0467	1.8633

* Fy 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:

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

4. TECHNICAL DATA

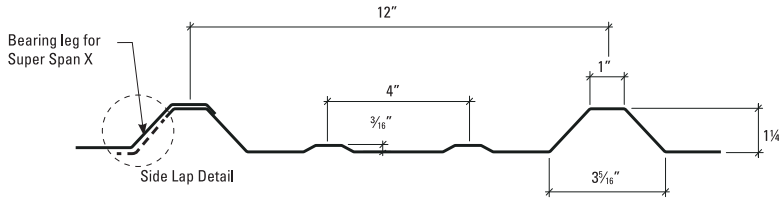
Physical Properties:

Paint System (Kynar 500® only)-

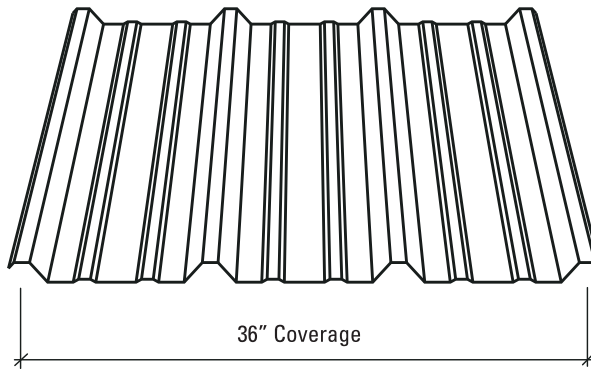
- Specular Gloss (60° Head): ASTM D 523 - 25% to 40%.
- Pencil Hardness: ASTM D 3363 - HB.
- Bend Adhesion: ASTM D4145 - 1T - no loss of adhesion.
- Impact Adhesion: ASTM D 2794 - 5/8" steel ball - impact of 80 inch-pounds, no loss of adhesion.
- Cross Hatch Adhesion: ASTM D 3359 - no loss of adhesion.

Paint System Field Performance

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



Super Span / Super Span X Roof and Wall Panel



5. INSTALLATION

- Minimum roof slope to be no less than 1/2:12.
- The panel is designed to end-lap easily without the need for notching or cinch straps. Endlap to be 4" minimum.
- The Super Span Panel can be used in wall applications in the same manner as a roof applications.
- In roof applications, Whirlwind recommends that the Super Span X Panel endlap occurs over the purlin. There should be one run of tape sealer in the endlap.

6. AVAILABILITY AND COST

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7. WARRANTY

Available warranties include 25 year material and paint warranties up to 35 years also are available.

8. MAINTENANCE

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

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.

