

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION EC-70

Effective April 1, 2014

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation in **February 2018**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

26 gauge Super Span-X Metal Panels Installed Over Steel Girts, manufactured by

Whirlwind Steel Buildings
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Claremore, OK 77075

Whirlwind Steel Buildings
2175 Sweetwater Industrial Drive
Lithia Springs , Georgia

Whirlwind Steel Buildings
500 Whirlwind Drive
Freeport, MN 56331

will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

This evaluation report is for Super Span-X metal roofing panels installed over steel girts. The metal roofing panels are minimum 26 gauge Galvalume coated steel. The metal roofing panels have 36 inches of coverage. The metal roof panels have a 1 ¼" rib height. The metal roofing panels conform to ASTM A792, structural quality, with a minimum yield strength of 80 ksi. The metal roofing panels can be painted with a Fluoropolymer finish coating.

LIMITATIONS

Wall Framing: The metal roofing panels shall be installed over open steel girts.

New Wall Framing Attachment: The wall framing shall meet or exceed the uplift requirements of the International Residential Code or International Building Code and shall be installed as required for resistance to wind loads.

Design Wind Pressures: The design pressure negative wind load resistance shall be as specified in Table 1.

Installation Over an Existing Wall Covering: Not permitted.

Table 1
 Attachment of minimum 26 gauge Super Span X panel metal panels to steel girts

Design Wind Pressure (psf)	Steel Girts	Attachment of Panel to Steel Girts
-38	Minimum 16 gauge; 5'-0" on center	Fasteners @ 12"-12"-12"; 5'-0" on center
-46.1	Minimum 16 gauge; 4'-6" on center	Fasteners @ 12"-12"-12"; 4'-6" on center
-54.3	Minimum 16 gauge; 4'-0" on center	Fasteners @ 12"-12"-12"; 4'-0" on center
-62.4	Minimum 16 gauge; 3'-6" on center	Fasteners @ 12"-12"-12"; 3'-6" on center
-70.5	Minimum 16 gauge; 3'-0" on center	Fasteners @ 12"-12"-12"; 3'-0" on center
-78.7	Minimum 16 gauge; 2'-6" on center	Fasteners @ 12"-12"-12"; 2'-6" on center
-86.8	Minimum 16 gauge; 2'-0" on center	Fasteners @ 12"-12"-12"; 2'-0" on center

INSTALLATION INSTRUCTIONS

General: The metal roofing panels shall be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Steel Girts: The minimum thickness of steel and the maximum spacing of the girts shall be as specified in Table 1.

Attachment of Metal Roof Panels to the Steel Girts: The metal panels shall be secured to the steel girts with No. 12-14 x 1 1/4" long hex head screws with a 5/8" dome washer. A line of fasteners shall be located along each steel girts. The fastener pattern and the spacing of the fasteners shall be as specified in Table 1. The fasteners shall be long enough to ensure a minimum penetration of 3 pitches of thread below the steel girt.

Panel Side Laps: The panels are stitched together with minimum 1/4"-14 x 7/8" long hex head screws with a 5/8" dome washer. The fasteners shall be spaced 20 inches on center along the length of the side lap.

Panel Ends and End Laps to the Steel Purlins: Minimum No. 12-14 x 1 1/4" long long hex head screws with a 5/8" dome washer. The fastener pattern shall be a 5"-7"-5"-7"-5". The fasteners shall be long enough to ensure a minimum penetration of 3 pitches of thread below the steel girt.

Trims, Closures, and Accessories: Components and trim shall be installed as required by the manufacturer.

Note: The manufacturer's installation instructions shall be available on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.