TDI | Texas Department of Insurance

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Product Evaluation

EC122 | 0321 Engineering Services Program

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 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: EC-122

Effective Date: April 1, 2021
Re-evaluation Date: March 2025

Product Name: "S" Deck and Curved "S" Deck Aluminum Wall Panels Installed over Steel Girts

Manufacturer: Berridge Manufacturing Company
6515 Fratt Road
San Antonio, TX 78218
(210) 650-3050

General Description:
The "S" Deck and the Curved "S" Deck aluminum wall panels are formed aluminum wall panels. The wall panels have 34-2/3" of coverage. The wall panels have a 7/8" rib height. The wall panels are manufactured from 0.032" thick 3105 H14 aluminum.

Limitations:
Wall Framing: The wall panels must be installed over open steel girts.

New Wall Framing Attachment: The wall framing must meet or exceed the design pressure requirements of the IRC or IBC and must be installed as required for resistance to wind loads.

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

Table 1
Attachment of 0.032" Aluminum "S" Deck and Curved "S" Deck Wall Panels to Steel Girts

Design Wind Pressure	Girts	Attachment of Panel to Steel Girts
-83.25 psf	Minimum 16 gauge; 4'-0" on center	Fasteners at 5.33" on center

Installation:
General: The wall panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Steel Girts: Berridge Manufacturing Company steel "CEE" or "ZEE" girts. The minimum thickness of the steel and the maximum spacing of the girts must be as specified in Table 1.

Attachment of Wall Panels to the Steel Girts: The wall panels must be secured to the steel girts with No. 12-14 x 1" Blazer Self-Drilling Flange-Seal head screws with an EPDM washer manufactured by Triangle Fastener Corporation. A line of fasteners must be located along each steel girt. The spacing of the fasteners must be as specified in Table 1. The fasteners must be long enough to ensure a minimum penetration of 3 pitches of thread below the steel girts. The fasteners must be located at each steel girt.

Panel Side Laps: The panels must overlap two corrugations. The panels are stitched together with minimum 1/4-14 x 7/8" Blazer Self-Drilling Flange-Seal head screws with an EPDM washer manufactured by Triangle Fastener Corporation. The fasteners must be spaced 12" on center along the length of the side lap.

Panel Ends: Minimum No. 12-14 x 1" Blazer Self-Drilling Flange-Seal head screws with an EPDM washer manufactured by Triangle Fastener Corporation. A line of fasteners must be located along the steel girt. The spacing of the fasteners must be as specified in Table 1. The fasteners must be long enough to ensure a minimum penetration of 3 pitches of thread below the steel girts.

Trims, Closures, and Accessories: Trim, closure, and accessory components must be installed as required by the manufacturer.

Note: Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.