

Product Evaluation

EC120 | 0421

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-120

Effective Date: April 1, 2020

Re-evaluation Date: April 2025

Product Name: HC-16 Aluminum Wall Panels Installed over Steel Girts

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

General Description:

The HC-16 aluminum wall panels are formed aluminum wall panels. The wall panels have 16" of coverage. The wall panels have 7/8" corrugations at 2-2/3" on center. The wall panels are manufactured from either 0.032" thick or 0.040" 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 wind pressure requirements of the IRC or IBC and must be installed as required for resistance to wind loads.

Design Wind Pressures: The design pressures must be as specified in Table 1 and Table 2.

Table 1

Attachment of 0.032" Aluminum HC-16 Wall Panels to Steel Girts

Design Wind Pressure	Girts	Attachment of Panel to Steel Girts
-62.5 psf	Minimum 16 gauge; 2'-0" on center	Two Fasteners
-67.7 psf	Minimum 16 gauge; 2'-0" on center	Three Fasteners
-33.8 psf	Minimum 16 gauge; 4'-0" on center	Three Fasteners

Table 2

Attachment of 0.040" Aluminum HC-16 Wall Panels to Steel Girts

Design Wind Pressure	Girts	Attachment of Panel to Steel Girts
-93.7 psf	Minimum 16 gauge; 2'-0" on center	Three Fasteners
-57.3 psf	Minimum 16 gauge; 4'-0" on center	Three Fasteners

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 Purlins: The wall panels must be secured to the steel girts as follows:

#12-14 x 1-1/4" Fenderhead T-3 screws manufactured by Dynamic Fasteners. The number of fasteners required per girt is specified in Table 1 and Table 2. The fasteners must be long enough to ensure a minimum penetration of 3 pitches of thread below the girts. The fasteners must be located at each steel girt.

Trims, Closures, and Accessories: Trim, closures, 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.