

Product Evaluation

EC99 | 0422

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-99

Effective Date: April 1, 2022

Re-evaluation Date: April 2026

Product Name: 24-Gauge ShadowRib Steel Wall Panels Installed over Steel Girts

Manufacturer: Metal Building Components, Inc. (MBCI), L.P., a division of NCI, L.P.
14031 West Hardy
Houston, TX 77060
(281) 445-8555

General Description:

The ShadowRib wall panels are minimum 24-gauge steel panels. The steel wall panels have a maximum 16" of coverage. The steel wall panels are 3" deep. The ribs are 1-1/2" deep. The steel wall panels are Galvalume steel with a minimum yield strength of 50,000 psi.

Limitations:

Wall Framing: The steel 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 pressure load resistance must be as specified in Table 1.

Table 1

Attachment of Minimum 24-gauge Steel ShadowRib Wall Panels to Steel Girts

System	Design Wind Pressure	Girts	Attachment of Panel to Steel Girts
1	-95.0 psf	Minimum 16-gauge; 2'-0" on center	HW-6602 panel clip; Two fasteners per clip
2	-82.1 psf	Minimum 16-gauge; 3'-0" on center	HW-6602 panel clip; Two fasteners per clip
3	-69.2 psf	Minimum 16-gauge; 4'-0" on center	HW-6602 panel clip; Two fasteners per clip
4	-56.3 psf	Minimum 16-gauge; 5'-0" on center	HW-6602 panel clip; Two fasteners per clip
5	-43.3 psf	Minimum 16-gauge; 6'-0" on center	HW-6602 panel clip; Two fasteners per clip
6	-30.4 psf	Minimum 16-gauge; 7'-0" on center	HW-6602 panel clip; Two fasteners per clip

Installation:

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

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

Attachment of Metal Wall Panels to the Steel Girts: HW-6602 Fixed Clips; 3" x 13/16" x 5/8"; 16-gauge galvanized steel. Secure each clip to the steel girts with two (2) #12-14 x 1-1/4" HWH Impax self-driller screws, manufactured by SFS. The fasteners must be long enough to ensure a minimum penetration of 3 pitches of thread below the girts. A clip is required at each girt location. At each clip location, secure the panels together with one 1/4-14 x 7/8" Lap Tek Impax screw, manufactured by SFS.

Trims, Closures, and Accessories: Components, such as trims, closures, and accessories 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.