

Product Evaluation

EC140 | 0622

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-140

Effective Date: June 1, 2022

Re-evaluation Date: June 2026

Product Name: MetalBond 600 Series MetalBoard Rain Screen Wall Panel Cladding System

Manufacturer: Byrne Metals, Corporation
848 South Houston Avenue
Humble, TX 77338
(281) 354-1100

General Description:

The MetalBond 600 Series MetalBoard rain screen wall panels are cladding that is manufactured from extruded aluminum. The panels are available in a wide variety of colors. The wall panel system consists of 0.08" thick 6063-T5 aluminum. The panels are nominal 1/2" in depth, 7.281" in length, and have a nominal 6" exposure. The lengths of the panels can vary. The panels interlock at the side laps and are secured to the substrate with concealed fasteners.

Limitations:

Wall Framing: Wall framing must be minimum 16-gauge steel.

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

Design Pressure: The allowable design pressure is +70 / -70 psf. The design pressures result in a panel deflection of less than L/60.

Installation:

General: The MetalBond 600 Series MetalBoard wall panel system must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Wall Framing: Minimum 16-gauge steel framing. The steel framing is spaced a maximum of 16" on center.

Water/Vapor Barrier: A water/vapor barrier is required in accordance with the requirements of the IRC and the IBC.

Attachment of MetalBond 600 Series MetalBoard Wall Panels to Steel Wall Framing: Secure the panels to the steel framing with 10-16 x 3/4" HWH SD3 fastener. One fastener is required at each steel wall framing location. The fasteners must be long enough to penetrate a minimum of 3 pitches of thread below the steel framing. The panels interlock together along the horizontal edge of the panels. The fasteners are concealed beneath the interlock.

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.