TDI | Texas Department of Insurance

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Product Evaluation

EC91 | 0522

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-91

Effective Date: May 1, 2022
Re-evaluation Date: May 2026

Product Name: C4000 Rainscreen Drained and Back-Ventilated Aluminum Composite Material Wall Panel Systems

Manufacturer: SAF Metal Fabricators
14100 Veterans Memorial Highway
Villa Rica, GA 30180
(770) 942-1207

General Description:
The SAF Series C4000 panel system is a drained and back-ventilated rain screen panel system. The C4000 panel system comes with fabricated aluminum composite material (ACM) panels that include a frame extrusion that is factory attached to the routed and returned edges of the panel that fits into the field installed horizontal and vertical track extrusions. The panel system incorporates a strip of composite material in the reveal between each ACM panel.

Limitations:
General Requirements: This evaluation report is for the panel system only. Evaluation of the supporting structure is separate from this evaluation report.

Approved Drawings: Install the panel system in accordance with the following drawing:

"SAF Metal Fabricators Composite Wall System;" Drawing No. 1.01, 2.01, 2.02, 2.03, and 3.01; dated February 1, 2016; revised March 4, 2022; signed and sealed by Robert James Amoruso, P.E., on April 25, 2022. This evaluation report refers to the stated drawing as the approved drawings.

Allowable Design Pressure: The allowable design pressure is +70 psf; -90 psf.

Lateral Resistance: The panel system is used as exterior cladding. It is not designed to be used to resist lateral loads. The supporting structure must be designed to resist lateral loads.

Installation:

Design and Installation Requirements: The panel system must be fabricated and installed in accordance with this evaluation report, the approved drawings, the applicable TDI adopted building codes, and the manufacturer's published installation instructions. In the event of a conflict between manufacturer's published installation instructions and this evaluation report, this evaluation report governs. A copy of the approved drawings must be available at the jobsite during installation.

Wall Framing: Wall framing must be minimum 18-gauge galvanized steel studs. Wall stud spacing must not exceed 16" on center. The wall framing must be designed to resist the transverse loads from the cladding and the lateral and axial loads from the structure.

Wall Sheathing: Structural and non-structural wall sheathing may be applied to the wall framing before the application of the panel system. In either case, the panel system is not secured to the wall sheathing. Fasteners used to secure the panel system to the wall framing must be long enough to penetrate through the wall sheathing and into the wall framing.

Anchorage of Panel System to Structure: Horizontal and vertical track extrusions are secured to the wall framing with fasteners as specified on the approved design drawings. The panels are secured to the horizontal and vertical tracks as specified on the approved drawings.

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.