

Product Evaluation

RC633 | 1120

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: RC-633

Effective Date: November 1, 2020

Re-evaluation Date: November 2024

Product Name: 3" Steel and Aluminum Roof Riser Panels

Manufacturer: Four Seasons Building Products
7815 American Way
Groveland, FL 34736
(352) 787-7766

General Description:

The roof panels are 12" wide. The roof panels have a 3" riser height. The longitudinal edges of the roof panels are designed such that each panel interlocks with the adjacent panel.

The steel panels are 0.019" thick minimum grade 40 galvanized steel. The aluminum panels are either 0.024" thick 3105-H24 aluminum or 0.030" thick 3105-H28 aluminum.

Limitations:

This evaluation report is for the roof panels only. The attachment of the roof panels to the supporting structure and the design of the supporting structure is outside the scope of this evaluation report.

The roof panels may only be installed on structures that are considered as non-habitable (open).

Allowable Design Pressure: The tabulated allowable design pressure is a function of the panel material, panel thickness, and panel span.

Panel Span: The approved drawings state the allowable panel spans.

Panel Overhang: The allowable panel overhang is specified on the approved drawing.

Roof Slope: Install the roof panels with a minimum roof slope of 1/4" per foot.

Installation:

Approved Drawings: Install the roof panels in accordance with the drawing titled '3" Metal Roof Riser Panels;' Drawing No. 18-7203; sheet 1 of 1; dated January 19, 2019; signed and sealed by Frank L. Bennardo, P.E. on September 8, 2020. This report refers to the stated as approved drawings.

Installation:

This evaluation report covers only the panels and the maximum allowable spans for the panels. It does not cover the design of the host structure and the attachment of the panels to the host structure. A Texas licensed professional engineer appointed as a qualified inspector must design and inspect the attachment of the roof panels to a supporting structure. The design must include the appropriate edition of the wind load standard (ASCE 7) used based on the current building specifications adopted by TDI. Reference the basic wind speed and the exposure category used for the design. The required design pressures must be included with the design. The design must include the panel used based on the approved drawing. The design must include the size and type of fastener used, the location and spacing of the fasteners, and the minimum required penetration of the fasteners into the host structure.

Panel Connection: The panels interlock. They are not required to be fastened together.

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