

Product Evaluation

RC700 | 0722

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-700

Effective Date: July 1, 2022

Re-evaluation Date: May 2026

Product Name: Tremblant or German Simetric Steel Roofing Tiles Installed Over a Solid Wood Structural Panel Roof Deck

Manufacturer: Blachotrapez SP. Z O. O.
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General Description:

The Tremblant or German Simetric steel roofing tiles are minimum 26-gauge preformed, through fastened steel roofing tiles. The tiles have a width of 28" and a length of 47". The tiles have a maximum coverage of 26" x 45".

Limitations:

Roof Slope: The roofing panels must not be installed on roofs with a roof slope less than 3:12.

Roof Framing: The maximum spacing of the roof framing members is 24" on center.

Roof Deck:

The roof deck must be solidly sheathed with wood structural panels. Refer to Table 1 for specific sheathing requirements.

Roof Deck Attachment: The roof deck must be secured to the roof framing to resist the required wind uplift design pressures.

Design Pressure: The design uplift wind load resistance must be as specified in Table 1.

Table 1. Tremblant or German Simetric Steel Roofing Tiles Installed over a Wood Structural Panel Roof Deck

System	Panel Thickness	Roof Deck Type	Allowable Design Pressure Rating (psf)
1	26-gauge	15/32" plywood	-52.5
2	26-gauge	15/32" plywood	-60.0

Installation Over an Existing Roof Covering: Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingles or wood shingles or shakes. The minimum thickness of the existing roof deck must be as required for a new roof covering installation. Note: Inspection of the existing roof deck must be made before installing the roofing tiles. The condition of the existing roof deck must be acceptable to receive the roofing tiles before the roof panel installation can proceed. Note: A new underlayment installation is required when installing panels over an existing roof covering.

Installation:

General Installation Requirements:

The roofing tiles must be installed as specified in this evaluation report and as specified in the manufacturer's installation instructions.

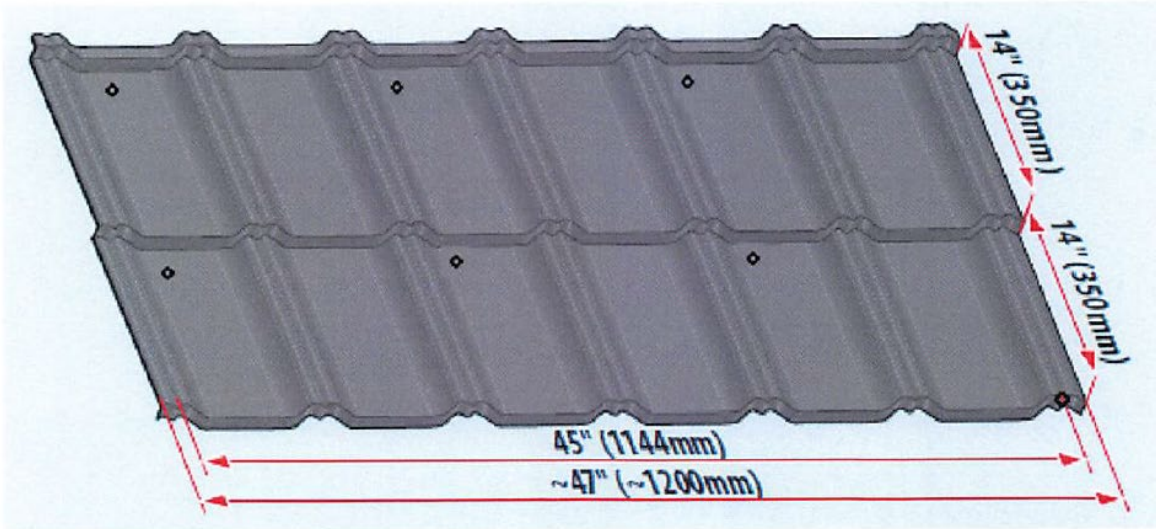
Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt must be used. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment must be installed with minimum 4" side laps and 6" end laps. The underlayment must be applied with corrosion-resistant fasteners as specified in the IRC and the IBC.

Attachment:

System 1: Each tile is mechanically attached to the roof deck using 2-3/8" WFD-4.8mm x 35mm x 1/4" HWH fasteners. Six (6) fasteners are required for each tile. The fasteners are located in every other pan, 1/2 to the left of the rib. The panels are installed with a 26" exposure and a 2" sidelap. One (1) fastener is installed into the nose of the panel at the lap. Refer to Figure 1.

System 2: Each tile is mechanically attached to the roof deck using 2-3/8" WFD-4.8mm x 35mm x 1/4" HWH fasteners. Twelve (12) fasteners are required for each tile. The fasteners are located in every pan, 1/2 to the left of the rib. The panels are installed with a 26" exposure and a 2" sidelap. One (1) fastener is installed into the nose of the panel at the lap. Refer to Figure 2.

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.



Tremblant panel 6 per panel fastening layout

Figure 1. 6 Fasteners per Panel Layout.



Tremblant panel 12 per panel fastening layout

Figure 2. 12 Fasteners per Panel Layout.