

## Product Evaluation

RC305 | 0820

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-305

**Effective Date:** August 1, 2020

**Re-evaluation Date:** August 2024

**Product Name:** Series 1500 Standing Seam Steel Roofing Panels Installed Over Plywood Deck

**Manufacturer:** Englert, Inc.  
1200 Amboy Avenue  
Perth Amboy, NJ 08861  
(732) 826-8614

### General Description:

The Series 1500 steel roofing panel is a 24-gauge steel architectural roof system that is snap lock seamed. The panel measures 15-1/4" in width. Each finished roof panel is 120" long and has a 1-1/2" high female rib and a 1-5/16" high male rib. The panel interlocks to adjoining panels with a female rib that snaps over the male rib locking the panels together.

### Limitations:

**Roof Decking:** The metal roof panels must be installed over a minimum of 15/32" thick plywood decking.

**Roof Deck Attachment:** The roof deck must meet or exceed the uplift requirements of the IRC and IBC, and the deck must be installed in a manner to resist lateral loads if required.

**Design Wind Pressures:** The design wind pressure limitations are specified in Table 1.

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

**Installation Over an Existing Roof Covering:** Installation over an existing roof covering is not permitted.

**Table 1** Attachment of Series 1500 24-gauge Steel Roofing Panels to Plywood Deck

| Design Pressure (psf) | Panel Seam     | Panel Clip   | Clip Spacing  | Clip Fastener                                     |
|-----------------------|----------------|--|---------------|---|
| -67.5                 | Snap Lock Seam | 18-gauge galvanized steel, 3-1/2" wide and 1-5/8" tall | Max. 36" o.c. | (2) #10-13 x 1" long, self-tapping pancake screws |
| -97.5                 |                |  | Max. 24" o.c. |   |
| -150                  |                |  | Max. 12" o.c. |   |

**Installation:**

**General Installation Requirements:**

The metal roof panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

**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 felt must be installed with a minimum of 4" laps. The felt must be fastened to the roof deck with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners must be applied along the overlaps not farther apart than 36" on center.

**Anchorage to Roof Decking:** The metal roof panels must be fastened in accordance with Table 1. The metal roofing panels must be secured to the roof deck with the clip specified in Table 1, and the clips are spaced at a maximum of 4" from each panel end. The clips are secured with two (2) #10-13 x 1" long self-tapping pancake head screws. The screws must be long enough to penetrate completely through the roof deck. The panels must be overlapped at the seams and snap locked together.

**Trims, Closures, and Accessories:** Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim must be installed as required by the manufacturer.

**Panel Ends and End Laps:** As required by the manufacturer.

**Panel Edges:** 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.