

Product Evaluation

RC308 | 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-308

Effective Date: August 1, 2020

Re-evaluation Date: August 2024

Product Name: Series 1300 Steel Standing Seam Roofing Panels Installed Over a Plywood Deck

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

General Description:

The Series 1300 steel roofing panel is a 0.022" thick (24-gauge) galvalume steel panel that is mechanically seamed. The panel is fabricated from a 20" wide coil of 24-gauge steel and has an effective area of 16" in width. Each finished roof panel is 120" long and has a male vertical leg that is 1-1/2" high and female vertical leg measuring 1-1/2" high. Refer to the drawings in this evaluation report for an illustration of the Englert Series 1300 standing seam panel.

Limitations:

Roof Decking: The Series 1300 metal roof panels must be installed over a minimum of 15/32" thick plywood decking.

New Roof Deck Attachment: The roof decking must meet or exceed the uplift requirements of the International Residential Code and International Building Code, and the decking shall be installed in a manner to resist lateral loads.

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

Limitations (continued):

Installation Over an Existing Roof Covering: Not permitted.

Roof Slope: The roof panels may be installed on roofs with a roof slope as low as 1/4: 12.

Table 1. Series 1300 Steel Standing Seam Roofing Panels Installed Over a Plywood Deck

Design Wind Pressure	Deck	Panel Clip	Clip Fastener	Clip Spacing
-52.5 psf	15/32" plywood	24-gauge; 6-1/4" long clip	(4) No. 10-12 x 1" WH steel wood screws	48"

Installation:

General: The steel roofing panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Roof Framing Members: The roof framing members must be spaced a maximum of 24 inches on center.

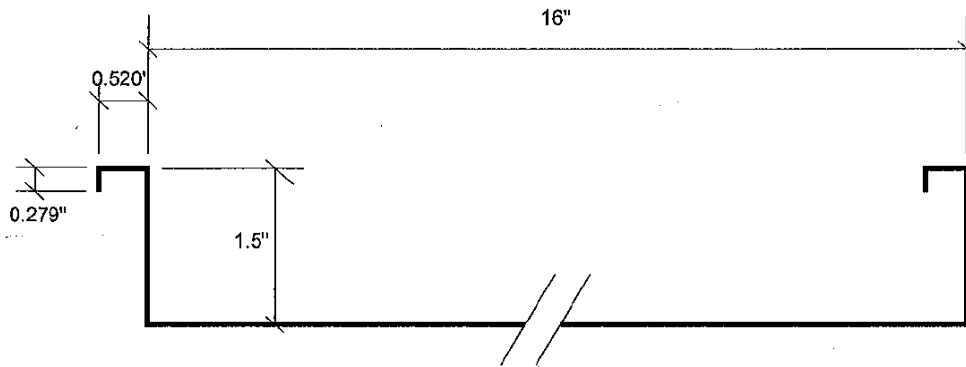
Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt must be used. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment must be installed with 2-inch side laps and end laps per manufacturer's instructions. The underlayment must be applied with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners must be applied along the overlaps not farther apart than 36 inches on center.

Alternative Underlayment: A minimum of one layer of self-adhering underlayment that complies with ASTM D 1970 may be used. The underlayment must be installed per the manufacturer's installation instructions.

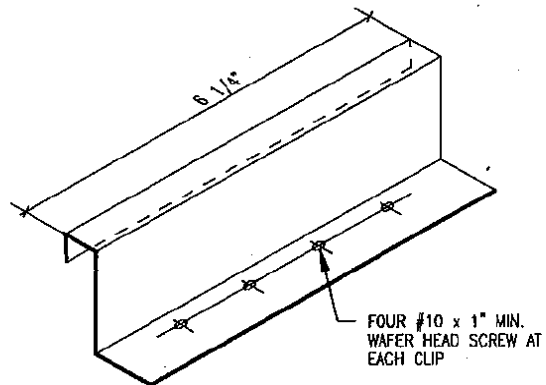
Attachment of Metal Roof Panels to the Roof Deck: The metal roofing panels must be secured to the roof deck with a panel clip per Table 1. The clips are spaced 24" on center. The clips are secured with four (4) No. 10-12 x 1" long wafer head plated steel wood screws.

Trims, Closures, and Accessories: Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim shall be installed as required by Englert Metal Roofing Installation Manual.

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.



ENGLERT SERIES 1300 STANDING SEAM PANEL PROFILE



ENGLERT SERIES 1300 PANEL CLIP PROFILE

