

Product Evaluation

RC639 | 0221

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-639

Effective Date: February 1, 2021

Re-evaluation Date: January 2025

Product Name: Series 2000 Snap Lock Aluminum Standing Seam Roof Panels Installed Over a Plywood Deck

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

General Description:

The Series 2000 Snap-Lock Aluminum roofing panel is a 0.032" thick Aluminum panel that has snap lock seams. The panel has an effective area of 18" in width. Each finished roof panel is 119-1/2" long and has a male vertical leg that is 1-5/8" high and a female vertical leg that is 1-3/4" high.

Limitations:

Roof Deck: The Series 2000 metal roof panels must be installed over a minimum of 15/32" thick plywood deck.

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

Design Wind Pressures: 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 1/2:12.

Installation Over an Existing Roof Covering: Not permitted

Table 1. Series 2000 Snap Lock Aluminum Standing Seam Roof Panels Installed Over a Plywood Deck

Design Pressure	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
-123.75 psf	Snap Lock	18-gauge 3-1/2" long steel clip	12" o.c.	Two (2) No. 10 x 1" pancake head screws
-180.00 psf	Snap Lock	18-gauge 3-1/2" long steel clip	6" o.c.	Two (2) No. 10 x 1" pancake head screws

Installation:

General: The 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" 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 6" side laps and 3" end laps. 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 6" on center.

Anchorage to Roof Deck: The roof panels must be fastened to the deck in accordance with Table 1. The roof panels are to be secured to the roof deck with 18-gauge formed steel clips, measuring 3-1/2" long x 1-3/4" high. The clips are located 4" from each end and spaced as specified in Table 1. The clips are secured to the deck with two (2) No. 10 x 1" pancake head screws. The fasteners must be long enough to penetrate completely through the roof deck. The standing seams interlock with each other in a snap-lock seam.

Trims, closures, and accessories: Components, such as eave trim, rake trim, ridge trim, hip trim, and valley trim must 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.