

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-308

Effective November 1, 2011

*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 shall be subject to reevaluation **November 2015**.*

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.

Series 1300 Steel Standing Seam Roofing Panels Installed Over a Wood Deck, manufactured by

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will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT 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 Drawing on Page 4 for an illustration of the Englert Series 1300 standing seam panel.

LIMITATIONS

Roof Decking: The Series 1300 metal roof panels shall be installed over a minimum of 15/32" thick or 19/32" plywood decking.

New Roof Deck Attachment: The roof decking shall 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 Tables 1 and 2.

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

Roof Slope: The panels shall not be installed on roofs with a roof slope less than 1/2 :12.

Table 1
Attachment of 16" Wide 24 gauge Steel Roofing Panels to
Minimum $\frac{15}{32}$ " Plywood Deck

System No.	Design Pressure (psf)	Plywood Deck Thickness (inches)	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
1	-160	$\frac{15}{32}$ "	90° Mechanical Seam	24 gauge 6 $\frac{1}{4}$ " long Steel Clip	12"	(4) #10 x 1" Wafer head screws

Table 2
Attachment of 16" Wide 24 gauge Steel Roofing Panels to
Minimum $\frac{19}{32}$ " Plywood Deck With Englert 2" Clip

System No.	Design Pressure (psf)	Plywood Deck Thickness (inches)	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
1	-69.25	$\frac{19}{32}$ "	90° Mechanical Seam	2" long Clip 26 ga. galvanized Steel	24"	(2) #10 x 1 $\frac{1}{2}$ " Wafer head screws
2	-106.75	$\frac{19}{32}$ "	90° Mechanical Seam	2" long Clip 26 ga. galvanized Steel	12"	(2) #10 x 1 $\frac{1}{2}$ " Wafer head screws

INSTALLATION INSTRUCTIONS

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

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

Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt shall be used. The underlayment used shall comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment shall be installed with 6-inch side laps and 3-inch end laps. The underlayment shall be applied with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners shall 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 shall be installed per the manufacturer's installation instructions.

Attachment of Metal Roof Panels to the Roof Deck:

Table 1

System 1: The metal roofing panels shall be secured to the roof deck with a panel clips per Table 1. The clips are located 6 inches from the ends of the panels and are spaced 12 inches on center. The clips are secured with two (4) No. 10 x 1" Wafer head screws. The panels overlap each other and a mechanical seamer is utilized to crimp the seams together 90° (single-lock). The lateral bends in the standing seam utilize a Bostik, 70-05A sealant prior to seaming.

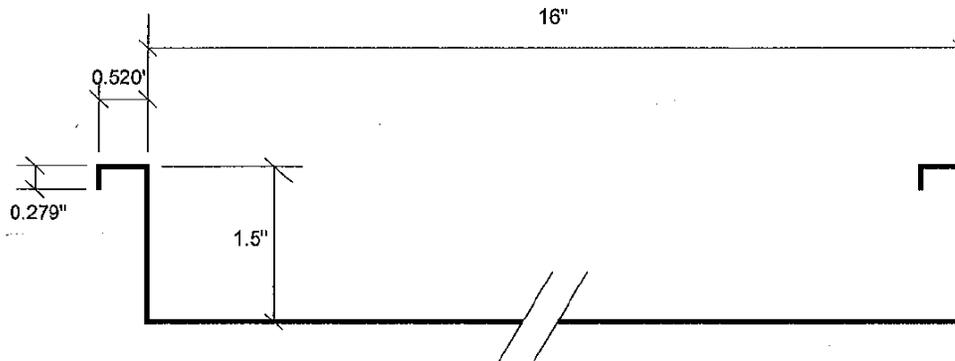
Table 2

System 1: The metal roofing panels shall be secured to the roof deck with a panel clips per Table 2. The clips are located 3 inches from the ends of the panels and are spaced 24 inches on center. The clips are secured with two (2) No. 10 x 1 1/2" Wafer head screws. The panels overlap each other and a mechanical seamer is utilized to crimp the seams together 90° (single-lock).

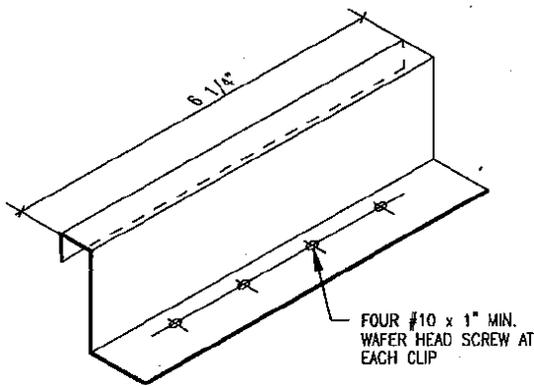
System 2: The metal roofing panels shall be secured to the roof deck with a panel clips per Table 2. The clips are located 3 inches from the ends of the panels and are spaced 12 inches on center. The clips are secured with two (2) No. 10 x 1 1/2" Wafer head screws. The panels overlap each other and a mechanical seamer is utilized to crimp the seams together 90° (single-lock).

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.

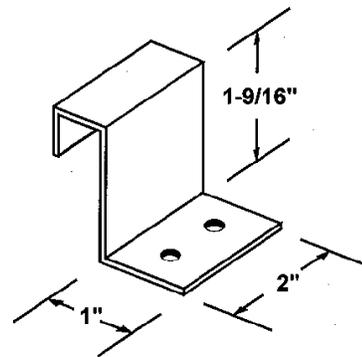
Note: The manufacturer's installation instructions shall be available on the job site during the installation. All fasteners, clips and plates shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.



ENGLERT SERIES 1300 STANDING SEAM PANEL PROFILE



6" CLIP



2" CLIP

ENGLERT SERIES 1300 PANEL CLIP PROFILES

