Product Evaluation

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-591

Effective Date: September 1, 2018
Re-evaluation Date: September 2022

Product Name: 275 New Lock Standing Seam Steel Roof Panels Installed over Steel Purlins

Manufacturer: Select Management Systems, Inc.
DBA Superior Metal Services
17 Scenic Loop Road
Boerne, TX 78006
(830) 981- 1943

Product Description:
The 275 New Lock Standing Seam metal roofing panels have 17-1/2" of coverage. The metal roofing panels have a 2" rib height and a mechanically seamed side lap. The metal roof panels are manufactured from 24-gauge Galvalume coated steel that conform to ASTM A792, Grade 50, with a minimum yield strength of 50,000 psi. Optional painted finish. New Tech Machinery, Corp. 275 Panel Profile.

Limitations:
General: The roof framing must meet or exceed the uplift requirements of the IRC or IBC and must be installed as required for resistance to wind loads.

Roof Framing: The metal roofing panels must be installed over minimum 16-gauge steel framing.

Design Wind Pressures: The design pressure wind load resistance must be as specified in Table 1.

Roof Slope: The metal roofing panels may be installed on roofs with a minimum roof slope of 1/2:12.

Installation over an Existing Roof Covering: Not permitted.

Table 1
Attachment of minimum 24-gauge 275 New Lock Metal Roofing Panels to Min. 16-ga. Steel Framing

Design Wind Pressure (psf)	Purlins	Panel Clip Spacing
-39.0	Minimum 16-gauge @ 5'-0" on center	5'-0" o.c.
-51.0	Minimum 16-gauge @ 4'-6" on center	4'-6" o.c.
-63.0	Minimum 16-gauge @ 4'-0" on center	4'-0" o.c.
-75.1	Minimum 16-gauge @ 3'-6" on center	3'-6" o.c.
-87.1	Minimum 16-gauge @ 3'-0" on center	3'-0" o.c.
-99.1	Minimum 16-gauge @ 2'-6" on center	2'-6" o.c.
-111.1	Minimum 16-gauge @ 2'-0" on center	2'-0" o.c.
-123.1	Minimum 16-gauge @ 1'-6" on center	1'-6" o.c.
-135.2	Minimum 16-gauge @ 1'-0" on center	1'-0" o.c.

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

Steel Purlins: The steel purlins must meet or exceed the uplift requirements of the IRC or the IBC and must be installed as required for resistance to wind loads.

Attachment of Metal Panels to Steel Framing: The metal roofing panels must be secured to the steel framing with two 1/4-14 x 1-1/4" HWH SD3 screws with NC-33003 sliding clips by Logan Stamping, Inc. /BPD. The fasteners must be long enough to ensure a minimum penetration of 3 pitches of thread below the steel framing.

Panel Seam: The panel ribs must be seamed with mechanical seamer to a 90-degree seam.

Trims, Closures, and Accessories: Components and trim must be installed 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, the IBC, and the Texas Revisions.