

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

Effective Date: June 1, 2012

RC-334

*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 **January 2016**.*

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.

Mechanical Lock Panel 2.0" (ML200) Over Commercial Quality Wood, manufactured by

Quality Metals
210 W. Peden
San Antonio, Texas 78204
Telephone: (210) 227-7276

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

Mechanical Lock Panels 2.0" (ML200): The mechanical lock panels are 24 MSG minimum coated steel. Maximum panel width 16 in., and rib height 2 in. The panels are continuous over two or more spans. End laps to occur with panels overlapped 6 inches. A bead of sealant may be used at panel ends and side joints. Side laps to be tightened and crimped with an electric crimping machine to a minimum 45 degree angle. The crimping process to include the upper portion of panel clips.

LIMITATIONS

New Roof Framing Attachment: The roof framing shall meet or exceed the uplift requirements of the International Residential Code or International Building Code and shall be installed as required for resistance to wind loads.

Design Wind Pressures: The design pressure uplift load resistance 52.5 psf.

Roof Slope: The Mechanical Lock Panels 2.0" (MSL200) may be installed on roofs with a roof slope as low as ½":12.

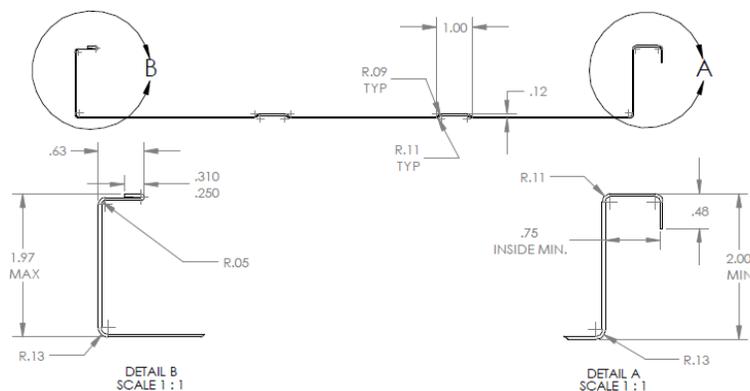
INSTALLATION INSTRUCTIONS

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

Attachment of Metal Roof Panels to the Roof Deck: The metal roofing panels shall be secured to the roof substrate in the following way:

- **Roof Deck Fasteners (Panel Clips)** — Either of the following: **Fixed Clip** — One piece clip assembly fabricated from No. 22 MSG minimum steel, 3 in. wide. **Floating Clip** — A two piece assembly with a base fabricated from No. 16 MSG minimum steel, 1 in. wide, and a top fabricated from No. 22 MSG steel, 4 in. wide. The clip spacing is 24 in. O.C. maximum.
- **Fasteners (Screws)** — Screws used to attach the panel clips to substructure to be No. 3 Phillips drive. Length must allow a minimum of 1 in. embedment into substructure. Two (2) screws are required per clip.
- Fasteners used to attach Tongue and Groove substructure to wood trusses or joists to be 3 in. long 8d common deformed shank nails. Two nails per board at each support.

Substructure (Tongue and Groove) — Minimum 1-1/2 in. thick, 2 x 6, commercial quality wood, continuous over two or more spans.



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