

Product Evaluation RC-##

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Effective ##/##/####

Revised ##/##/####

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation 3 years after the effective date.*

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.

24 Gauge LT-175 Metal Roofing Panels manufactured by

Northwest Roof Tile & Metal, LLC.

6807 Theall, Suite C

Houston, Texas 77066

Telephone: (281) 893-8382

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 LT-175 metal roofing panel is minimum 24 gauge galvalume steel panels with an optional paint finish. The metal roofing panels have a maximum coverage of 17 ¾". The panel has a 1 ¾" tall snap lock standing seam rib. The 24 Ga. Steel material is ASTM A 792 AZ55, Grade 50, with a 50 ksi yield point with optional painted finishes. Panels must be formed within the panel rollformer specifications and tolerances.

Panel Rollformer: Schleich Quadro-Plus Rollformer

Metalforming, Inc

100 International Drive

Peachtree City, GA 30269

LIMITATIONS

Roof Framing: The metal roofing panels shall be installed over an insulated 22 gauge steel deck. The 22 gauge steel deck is secured to steel framing.

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 shall be as specified in Table 1.

Roof Slope: The metal roofing panels shall not be installed on roofs with a roof slope less than 3:12.

Table 1

Panel System	Design Wind Pressure (psf)	Panel Gauge	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
1	-71.0	24 Ga. Steel	Snap Lock	20 Ga. Fixed	24" O.C.	(2) #14
2	-108.5	24 Ga. Steel	Snap Lock	20 Ga. Fixed	6" O.C.	(2) #14

Installation Over an Existing Roof Covering: Not permitted.

INSTALLATION INSTRUCTIONS

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

Roof Framing Members: Min. gauge and yield to depend on design considerations for uplift loading with max spacing to be 5'-0" O.C. for system 1 and 2'-6" O.C. for system 2.

Structural Steel Deck: Minimum 22 gauge coated steel deck w/ min. yield strength 33 ksi and minimum depth of 1 1/2" and a maximum pitch of 6".

Fire Barrier: Minimum 1/2" thick Roof Board with gypsum core bonded on each side to a non-asphaltic coated fiberglass mat. Minimum 900 psi compressive strength.

Rigid Insulation: Minimum 1" thick rigid insulation with polyisocyanurate foam core bonded on each side to fiber-reinforced facers. Minimum 20 psi compressive strength.

Attachment of Metal Roof Panels to the Steel Deck: The panels shall be installed using a min. 20 Ga., 2 1/4" long, fixed clip. Minimum No. 14-13 deck screws. The fasteners shall be long enough to ensure a minimum penetration of 3 pitches of thread below the steel deck.

Panel Ends, End Laps and Edges: As required by the manufacture.

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 the manufacturer.

Alternative Fasteners: Substitution of equivalent fasteners shall meet the following requirements:

No. 14-13 Deck Screws

- Ultimate withdrawal (pullout) \geq 540 lbs. in minimum 22 gauge steel deck.

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.