



Product Evaluation

RC577 | 0818

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-577

Effective Date: August 1, 2018

Re-evaluation Date: August 2022

Product Name: QNR 175 Snap Lock Steel Roofing Panels Installed over an OSB or Plywood Deck

Manufacturer: Quality Northside Roofing
2323 North Frazier Street
Conroe, TX 77303
(936) 672-3080

General Description:

The QNR 175 Snap Lock metal roofing panel is 24-gauge galvalume steel with an optional paint finish. The 1-3/4" snap lock metal roofing panels have a maximum coverage of 17-3/4". The panels have a 1-3/4" tall snap lock rib. The 24-gauge steel material is ASTM A 792 AZ55, Grade 50, with a minimum 50 ksi yield point with optional painted finishes. The panel rollformer is New Tech Machinery, Corp, SS675 panel profile.

This product evaluation is for residential metal roofing panels that are secured to either a nominal 19/32" OSB deck or a 15/32" plywood deck. Thicker OSB or plywood deck may be used; however, the design pressure rating for the metal panels shall be as specified in this evaluation.

Limitations:

Roof Deck: The metal roofing panels must be installed over either a minimum 19/32" OSB or 15/32" plywood deck.

Roof Framing Members: Space the roof-framing members a maximum of 24" on center.

New Roof Deck Attachment: The roof deck must meet or exceed the uplift requirements of the International Residential Code or the International Building Code and shall be as required for resistance for wind loads.

Roof Slope: The metal roofing panels may be installed on roofs with a roof slope as low as 3:12.

Design Pressures: The design pressure uplift load resistance shall be as specified in Table 1 or Table 2.

Installation over an Existing Roof Covering: Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingle, wood shingles, or shakes built up roofing or roll roofing applied over an existing solid roof deck of either nominal 19/32" OSB or 15/32" plywood. Note: Inspection of the existing roof deck must be made prior to the installation of the roof panels. The condition of the existing roof deck must be acceptable to receive the metal roofing panels before the metal roofing panel installation proceeds.

Installation:

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

Underlayment: Use a minimum of one layer of No. 30 (Type II) asphalt felt. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the underlayment with 6" side laps and 3" end laps. Apply the underlayment with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Apply fasteners along the overlaps not farther apart than 36" on center.

Attachment of Metal Roofing Panels: The metal roof panels must be secured to the roof framing in one of the following ways:

Metal Roofing Panels to OSB OR Plywood Deck: The metal roofing panels must be secured to the roof deck using a minimum of two (2) No. 10-12 x 1" long pancake Type A (or approved equal) with a 3-1/2" long, 18-gauge, galvanized steel fixed clip (by SFS, Intec or SMP). The spacing of the clips must be as specified in Tables 1 & 2. Fasteners must be long enough to insure a minimum penetration of 1/4" below the wood deck.

Table 1. Attachment of 24-gauge QNR 175 SnapLock Metal Roofing Panels to Minimum 19/32" OSB Deck

Design Pressure	Panel Clip Spacing
63.5 psf	24" on center
71.0 psf	16" on center

Table 2. Attachment of 24-gauge QNR 175 SnapLock Metal Roofing Panels to Minimum 15/32" Plywood Deck

Design Pressure	Panel Clip Spacing
71.0 psf	16" on center

Panel Ends: As required by the manufacturer.

Panel Edges: As required by the manufacturer.

Trims, Closures, and Accessories: Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim must be installed as required by the manufacturer.*

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use Corrosion Resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.