

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

Effective Date: January 1, 2013

RC-24

*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 2017**.*

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.

Battenlok HS Roof Panels manufactured by

Metal Building Components, Inc. (MBCI), L.P., a division of NCI, L.P.
14031 West Hardy
Houston, Texas 77060
(281) 445-8555

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

Battenlok standing seam roof panels are 24 MSG by 12 or 16 inches wide with 2 inch high standing stiffeners. The panel conforms to ASTM A 653 Grade E, 50,000 psi yield point and galvanized.

LIMITATIONS

Design Wind Pressure: -52.5 psf

Roof Slope: Do not install Battenlok standing seam roof panels on slopes less than $\frac{1}{2}$:12.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is not covered in this product evaluation report.

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

INSTALLATION INSTRUCTIONS

General Installation Requirements:

All International Residential Code (IRC) and the International Building Code (IBC) requirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Roof Deck: The panels shall be installed on nominal $\frac{5}{8}$ inch exterior grade plywood with a 40/20 span rating.

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 felt shall be installed with 4 inch side laps and 4 inch end laps. The felt shall be fastened to the roof deck with corrosion resistant fasteners and tin caps. Fasteners shall be applied along the overlaps not farther apart than 12 inches on center. The valley and perimeter flashing shall be 0.024 inch thick sheet metal.

Fasteners: The panels are anchored to the roof deck using panel clips. The panel clips shall be spaced a maximum of 60 inches o.c. The panel clips can be either one of the following: (fixed or utility clip) or a floating clip. The fixed or utility clip is a one piece assembly manufactured from No. 22 MSG minimum gauge steel and measures 3 inches wide. The floating clip is a two piece assembly with a base fabricated from No. 16 MSG minimum gauge steel, $1\frac{5}{8}$ inch wide and the top is fabricated from No. 22 MSG minimum gauge steel, $4\frac{1}{4}$ inch wide. The fasteners used to attach the clip to the deck shall be No. 10 x 1 inch long Pancake head wood screws with a No. 2 Phillips head size or No. 10 x 1 inch woodgrip screws with $\frac{1}{4}$ inch hex head. Two screws shall be required for each clip.

Screws at the endlap shall be one of the following: 14 x $1\frac{1}{4}$ inch hex head washer head, self-drilling; 14 x 1 inch Type AB, hex washer head self-tapping; 14 x $1\frac{1}{4}$ hex washer head, self-drilling; 14 x 1 inch Type AB Phillips stainless steel, self-tapping. Five (5) screws are required per panel in a 1, 3, 4, 4, 4, 3 inch pattern for 16" wide panels, and four (4) screws are required per panel in a $1\frac{1}{2}$, 3, 3, 3 inch pattern for 12" wide panels.

Sealing of the panel assembly: The factory applied hot-melt, non-curing mastic in the concave portion of the overlapping panel leg should contact the upstanding leg of the panel. The interlocking legs should be seamed together. A continuous, field-applied $\frac{7}{8}$ inch x $\frac{3}{16}$ inch double-bead butyl tape is applied near the ends of the panels below the screws. A field-applied urethane sealant is applied at the ends of the battens.

Note: The manufacturer's installation instructions shall be 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.