

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-286

Effective June 1, 2011

*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 **June 2015**.*

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.

Centurydrain® Metal Panels (26 gauge and 29 gauge) Installed Over a Plywood Deck manufactured by:

Wheeling Corrugating Company
1134 Market Street
Wheeling, West Virginia 26003-2971
(304) 234-2345

are accepted for use in designated catastrophe zones along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

Centurydrain® metal panels are manufactured from 26 gauge (0.019" thick) and 29 gauge (0.014" thick), Grade 80 coated steel conforming to ASTM A653, with a minimum yield strength of 80,000 psi. Panels are available in a galvanized or baked-on siliconized polyester or Kynar colors over galvanized steel. The panels are manufactured in a 36-inch net coverage width with a $\frac{3}{4}$ inch rib at 9 inches on center.

LIMITATIONS

Design Wind Pressures: For installations to $\frac{15}{32}$ " thick plywood roof decks, design wind pressure limitations are specified in Tables 1 and 2.

Roof Slope: The Centurydrain® panels shall not be installed on roofs with a roof slope less than 2:12.

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.

Panel Installation Requirements

Panels: Panels shall be attached in accordance with Tables 1 and 2.

Table 1 (29 gauge)

Attachment of Centurydrain Panel to nominal $\frac{15}{32}$ inch plywood structural panel roof decking:

Wind Pressure (psf)	Fastener Type	Up Slope Fastener Spacing
-123	No. 9-16 x 1 $\frac{1}{2}$ " long sharp point screws with $\frac{7}{16}$ " diameter seal washer	12" o.c.

Table 2 (26 gauge)

Attachment of Centurydrain Panel to nominal $\frac{15}{32}$ inch plywood structural panel roof decking:

Wind Pressure (psf)	Fastener Type	Up Slope Fastener Spacing
-69.1	No. 9-16 x 1 $\frac{1}{2}$ " long sharp point screws with $\frac{7}{16}$ " diameter seal washer	24" o.c.

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 in accordance with the manufacturer's installation instructions. Fasteners shall be applied along the overlaps not farther apart than 36 inches on center.

Anchorage:

To Roof Decking: The panels shall be fastened in accordance with Table 1 and Table 2. The fasteners shall be located on the bottom flat along one side of each major rib except at the eaves, rake edges, ridges and panel overlap locations where one fastener is located on the bottom flat adjacent to both sides of each major rib. The fasteners shall be long enough to penetrate completely through the wood structural panels with a minimum exposure of $\frac{3}{16}$ inch below the underside of the wood structural panels.

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.