

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-262

Effective November 1, 2010

*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 **November 2014**.*

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.

Carlisle SynTec Sure-Weld TPO and Sure-Flex PVC Roofing Systems manufactured by

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will be accepted 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

Carlisle SynTec TPO roof membranes are nominal 0.045" thick or thicker flexible TPO (thermoplastic olefin) sheets. **Carlisle SynTec PVC** roof membranes are nominal 0.050" thick or thicker flexible PVC (polyvinyl chloride) sheets.

LIMITATIONS and INSTALLATION

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. The roof framing members shall be spaced a maximum of 24" o.c.

For all applications: The roof shall have a minimum slope of $\frac{1}{4}$:12.

TPO Assembly No. 1

Design Wind Pressure: -67.5 psf

Roof Deck: The roof deck shall consist of $\frac{19}{32}$ " thick or greater plywood.

Insulation: A minimum of 1.5" thick polyisocyanurate roof insulation.

The roof insulation is secured with four (4) #12 insulation fasteners and 3" steel plates per every 4' x 8" board.

Membrane: One ply of Carlisle Sure-Weld TPO membrane, 6'-0" wide sheet.

The membrane is secured to the roof deck with Carlisle HP-X fasteners and $2\frac{3}{8}$ " barbed plates spaced 6" o.c. along the seams of the membrane. The overlapping membrane edge is sealed with a $1\frac{1}{2}$ " wide heat weld.

TPO Assembly No. 2

Design Wind Pressure: -52.5 psf

Roof Deck: The roof deck shall consist of $\frac{19}{32}$ " thick or greater plywood.

Insulation: A minimum of 1.5" thick polyisocyanurate roof insulation.

The roof insulation is secured with four (4) #12 insulation fasteners and 3" steel plates per every 4' x 8" board.

Membrane: One ply of Carlisle Sure-Weld TPO membrane, 8'-0" wide sheet.

The membrane is secured to the roof deck with Carlisle HP-X fasteners and $2\frac{3}{8}$ " barbed plates spaced 6" o.c. along the seams of the membrane. The overlapping membrane edge is sealed with a $1\frac{1}{2}$ " wide heat weld.

PVC Assembly No. 1

Design Wind Pressure: -60 psf

Roof Deck: The roof deck shall consist of $\frac{19}{32}$ " thick or greater plywood.

Insulation: A minimum of 1.5" thick polyisocyanurate roof insulation.

The roof insulation is secured with four (4) #12 insulation fasteners and 3" steel plates per every 4' x 8" board.

Membrane: One ply of Carlisle Sure-Flex PVC membrane, 81" wide sheet.

The membrane is secured to the roof deck with Carlisle HP-X fasteners and $2\frac{3}{8}$ " barbed plates spaced 6" o.c. along the seams of the membrane. The overlapping membrane edge is sealed with a $1\frac{1}{2}$ " wide heat weld.

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) and the International Building Code (IBC) and the Texas Revisions.