

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-181

Effective September 1, 2013

*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 in **September 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.

Tradesman Modified Bitumen Roof Covering manufactured by

Tradesman, LLC
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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

Tradesman SBS Base Sheet is a modified bitumen base ply designed for use in multi-layered modified bitumen roof membrane systems. The Tradesman SBS base sheet consists of a lightweight random fibrous glass mat impregnated and coated with SBS modified bitumen. The top and bottom surfaces are coated with a mineral parting agent.

Tradesman SBS Torch Base is a torch grade modified bitumen base ply designed for use in multi-layered modified bitumen roof membrane systems. The Tradesman SBS Torch Base consists of a lightweight random fibrous glass mat impregnated and coated with SBS modified bitumen. The top surface is coated with a mineral parting agent and the back surface is covered with polyolefin burn off film.

Tradesman SBS 190 is a modified bitumen cap sheet for use in multi-layer modified bitumen roof membrane systems. Tradesman SBS 190 consists of a non-woven polyester mat impregnated and coated with SBS modified bitumen. The sheet is granule surfaced.

Tradesman SBS 190 Torch is a torch grade modified bitumen cap sheet for use in multi-layer modified bitumen roof membrane systems. Tradesman SBS 190 Torch consists of a non-woven polyester mat impregnated and coated with SBS modified bitumen. The sheet is granule surfaced.

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.

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

Assembly No. 1

Design Wind Pressure: - 412.5 psf

Roof Deck: The roof deck shall consist of a structural concrete slab primed with asphaltic primer meeting ASTM D-41.

Insulation: (Optional) Base insulation layer of 1.5 inch thick AC Foam II polyisocyanurate roof insulation adhered to the primed concrete using hot asphalt applied at a rate of 20 – 25 lb/sq. Top insulation layer of $\frac{1}{4}$ " thick DensDeck fully adhered to the roof insulation using hot asphalt applied at a rate of 20 – 25 lb/sq.

Base Sheet: Tradesman SBS base is fully adhered to the covered board or the primed concrete deck with hot asphalt applied at a rate of 25 lb/sq. The base sheet is applied with 3 inch side and end laps.

Membrane: Tradesman 190 SBS is fully adhered to the base sheet with hot asphalt applied at a rate of 25 lb/sq. The Tradesman 190 SBS torch sheet is applied with 3 inch side laps and 4 inch end laps.

Assembly No. 2

Design Wind Pressure: -412.5 psf (with insulation)
- 322.4 psf (directly to concrete)

Roof Deck: The roof deck shall consist of a structural concrete slab primed with asphaltic primer meeting ASTM D-41.

Insulation: (Optional) Base insulation layer of 1.5 inch thick AC Foam II polyisocyanurate roof insulation fully adhered to the primed concrete using hot asphalt applied at a rate of 20 – 25 lb/sq. Top insulation layer of $\frac{1}{4}$ " thick DensDeck fully adhered to the roof insulation using hot asphalt applied at a rate of 20 – 25 lb/sq.

Base Sheet: Tradesman SBS Torch base, torch adhered to the cover board or primed concrete. The base sheet is applied with 3 inch side and end laps.

Membrane: Tradesman 190 SBS torch adhered to the base sheet. Tradesman 190 SBS torch sheet is applied with 3 inch side laps and 4 inch end laps.

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.