

Technical Information Sheet



V-FORCE™ VAPOR BARRIER MEMBRANE

Item Description	Item Number
1 Roll (5 Squares)	W56358900V25

DESCRIPTION

V-Force Vapor Barrier Membrane is a vapor barrier comprised of SBS modified bitumen adhesive, factory-laminated to a tri-laminate woven, high-density polyethylene top surface. A polymeric release liner protects the adhesive. V-Force membrane is intended for use as a vapor retarder in Elevate roofing systems and may be used as a temporary roof membrane for up to ninety (90) days.

METHOD OF APPLICATION

- V-Force membrane can be applied at ambient temperatures as low as 25 °F (-4 °C) if it has been stored in a heated area so that it will be between 50 °F (10 °C) and 100 °F (38 °C) at the time of application.
- All substrates except metal decks must be primed with either, SA-LVOC Primer (W563587092), SA-Solvent Based Primer (W563587090) or SA-Water Based (WB) Primer (W563587091). **NOTE:** SA-Water Based (WB) Primer may not be used over asphalt surfaces or surfaces with residual asphalt.
- V-Force membrane must be installed with minimum 3" (76 mm) side laps and 6" (152 mm) end laps. At the end of each roll, install a 6" x 42" (152 mm x 1.07 m) sheet metal plate to support the end lap between deck ribs. Stagger the end laps 12" (305 mm).
- V-Force membrane must be rolled in with a 75 lb (34 kg) roller to fully mate each roll to substrate, including all lap areas.

ACCEPTABLE IMMEDIATE SUBSTRATES FOR SELF-ADHERED APPLICATION

NOTE: All substrates except metal decks must be primed with either SA Water Based Primer (W563587091), SA-LVOC Primer (W563587092), or SA Solvent Based Primer (W563587090).

- Structural Concrete (must be clean, dry, and properly cured)
- Steel Deck (processing oils must be removed)

NOTE: Single-Ply membranes are not to adhered directly to V-Force.

NOTE: Factory Mutual (FM) does not recognize direct to steel deck attachment of this product.

- Plywood or OSB
- New and Existing Smooth Surface BUR, SBS, or APP Modified Bitumen (must be clean and smooth)
- DensDeck® Prime, SECUROCK® Gypsum Fiber, STRUCTODEK® HD
- ISOGARD™ HD Composite or Cover Board, RESISTA™ / ISOGARD CG Insulation

NOTE: Please consult the Elevate Asphalt Roofing Systems Guide for Applicators and Designers and QuickSpecs found on the Elevate website to review specific information regarding the type of deck and insulation in use.

STORAGE

- All material should be stored out of the weather in a clean, dry area in its original unopened packaging at a minimum of 50 °F (10 °C) and a maximum of 140 °F (60 °C).
- If material must be stored temporarily on the roof prior to application, it must be elevated from the roof surface on a pallet, stored on end, and protected from the weather with a light colored, opaque tarp in a neat, safe manner that does not exceed the allowable load limit of the storage area.

SHELF LIFE

Shelf life of one year (12 months) can be expected when kept dry and stored in the original, unopened packaging between 60 °F and 80 °F (16 °C and 27 °C)

PRECAUTIONS

- For safety information, refer to the Safety Data Sheet (SDS) for SBS Membranes and Flashing.
- Hot asphalt cannot be used to adhere roofing materials to V-Force Vapor Barrier membrane.
- Not suitable for use as a temporary roof under ponding water conditions.
- Take care when transporting and handling Elevate Modified Bitumen rolls to avoid punctures and other types of physical damage.
- Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from all Elevate Modified Bitumen membranes.

LEED® INFORMATION

Post-Consumer Recycled Content: 0%
 Post Industrial Recycled Content: 0%
 Manufacturing Location: Quebec, Canada



NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Product Data	
Property	Value
Roll Width	3' 9" (1.14 m)
Roll Length	133' 9" (40.8 m)
Net Coverage	468 ft ² (43.5 m ²)
Roll Weight	80 lb (36.5 kg)
Weight Per Pallet	2,125 lb (964 kg)
Rolls Per Pallet	25
Pallet Size	43" x 43" (1.1 m x 1.1 m)
Coverage Per Pallet	11,700 ft ² (1,087 m ²)

TYPICAL PROPERTIES		
Property	ASTM Standard	Typical Performance
Thickness	D 5147	30 mil (0.762 mm)
Tensile Strength	D 5147	54 lbf/in (9.5 kN/m), MD 68 lbf/in (12 kN/m), XMD
Ultimate Elongation, Bitumen Portion, at 73 °F (23 °C)	D 5147	33%, MD 20%, XMD
Low Temperature Flexibility (Cold Bending)	D 5147	-30 °F (-35 °C)
Dynamic Puncture	E 154	152 lbf (675 N)
Tear Strength at 73 °F (23 °C)	D 5601	79 lbf (350 N), MD 90 lbf (400 N), XMD
Lap Adhesion at 73 °F (23 °C)	D 1876	6 lbf/in (0.95 kN/m)
Water Absorption, % by Weight	D 5147, D 95	<0.1 %
Peel Resistance	D 903	5.6 lbf/in (1 kN/m)
Water Vapor Permeance, max.	E 96 Procedure B	0.04 perms (2.5 Ng/Pa·s·m ²)
Air Permeability	D 1970	0.001 L/sec·m ²
	E 2178	< 0.0002 ft ³ /min·ft ² (< 0.0011 L/sec·m ²)
Sealability around Nail	D 1970	Pass

Please contact Elevate Technical Services at 800-428-4511 for further information.

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