

GENFLEX VAPOR SHIELD MEMBRANE

Item Description

- 1 Roll (5 squares) – Packaged in box
 1 Roll (5 squares) – Packaged in shrink wrap

Item Number

- W59004001
 W5900400125

Product Information

Description

GenFlex Vapor Shield Membrane is specially designed for application directly onto metal decks. Longitudinal seams coincide with the top flutes of the deck, reducing waste and increasing the coverage capacity of a single roll. GenFlex Vapor Shield Membrane is composed of self-adhesive SBS modified bitumen and a polyethylene woven composite facer.

Installation

1. GenFlex Vapor Shield 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.
2. All substrates except metal decks must be primed with either:
 GenFlex Vapor Shield Solvent Based Primer: W590040090
 GenFlex Vapor Shield Water Based Primer: W590040091
3. GenFlex Vapor Shield 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).
4. GenFlex Vapor Shield 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 GenFlex Solvent Based Primer (W590040090) or GenFlex Water Based Primer (W590040091)

- Structural Concrete (must be clean, dry, and properly cured)
- Steel Deck (processing oils must be removed)
 NOTE: Factory Mutual (FM) does not recognize direct to steel deck attachment of this product.
- Plywood or OSB
- Existing Smooth Surface BUR, SBS, or APP Modified Bitumen (must be clean and smooth)
- DensDeck® Prime, SECUROCK® Gypsum Fiber, STRUCTODEK® HD
- GenFlex Composite Polyiso / GenFlex HD Comp ISO, GenFlex HD Polyiso / GenFlex HD ISO, Coated Glass Facer / GenFlex CG ISO

Installation Precautions

- For safety information, refer to the Safety Data Sheet (SDS).
- Hot asphalt cannot be used to adhere roofing materials to GenFlex Vapor Shield Membrane.
- Not suitable for use as a temporary roof under ponding water conditions.
- Take care when transporting and handling GenFlex rolls to avoid punctures and other types of physical damage.
- Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from GenFlex Vapor Shield Membrane.
- The only approved application for adhering directly to GenFlex Vapor Shield Membrane is insulation attachment. Do not adhere any roofing membrane directly to GenFlex Vapor Shield Membrane.

Typical Sheet Properties

Characteristic	Typical Values
Reinforcement	None
Elastomeric Bitumen	Proprietary blend of bitumen and SBS polymers
Topside	Tri-laminate woven polyethylene
Underside	Silicone release film
Selvedge Surface	Tri-laminate polyethylene
Side Lap	3" (76 mm)
End Lap	6" (152 mm)

Typical Properties

Property	Values		Test Method
	MD	XMD	
Thickness	30 mils (0.762 mm)		ASTM D 5147
Tensile Strength	54 lbf/in (9.5 kN/m)	74 lbf/in (13 kN/m)	ASTM D 5147
Ultimate Elongation @ 73 °F (23 °C)	33%	25%	ASTM D 5147
Low Temperature Flexibility (Cold Bending)	-58 °F (-50 °C)		
Tear Strength at 73 °F (23 °C)	95 lbf (423 N)	103 lbf (458 N)	ASTM D 5601
Static Puncture	90 lbf (400 N)		ASTM D 5602
Lap Adhesion at 73 °F (23 °C)	6 lbf/in (0.95 kN/m)		ASTM D 1876
Water Absorption, % by Weight	0.1%		ASTM D 5147, D 95
Peel Resistance	5.4 lbf/in (1.4 kN/m)		ASTM D 903
Sealability around Nail	Pass		ASTM D 1970
Water Vapor Permeance, max	0.03 perms (1.7 Ng/Pa•s•m ²)		ASTM E 96 B
Air Permeability	0.0002 ft ³ /min•ft ² (0.0011 L/sec•m ²)		ASTM E 2178

Acceptable Substrates

Substrates	NOTE
Structural Concrete (New and Existing)	Newly poured decks must be completely dry and primed with GenFlex Vapor Shield Primer
Plywood and OSB	Prime wood surfaces with GenFlex Vapor Shield Primer
Cementitious Wood Fiber	Prime with GenFlex Vapor Shield Primer
Gypsum	Prime with GenFlex Vapor Shield Primer
Coal Tar Pitch Roofs	GenFlex ½" HD Cover Board / GenFlex HD ISO is required
Smooth Surfaced Asphalt	Clean and prime with GenFlex Vapor Shield Primer
Steel Decks	DensDeck® Prime is required over steel decks for FM code compliance In constructions where FM codes are not required, applied directly to the steel deck.
Coated Glass Facer / GenFlex CG ISO	
GenFlex HD Polyiso / GenFlex HD ISO	

NOTE: The following are not acceptable substrates for GenFlex Vapor Shield Membrane: Lightweight Insulating Concrete, GenFlex Polyiso / GenFlex GL ISO, Expanded Polystyrene, Extruded Polystyrene, Fiberglass, Wood Fiber, Perlite, existing single-ply roofs.

Product Data

Packaging					
		Old Packaging (box)		New Packaging (shrink wrap)	
Roll Width	3' 9" (1.14 m)	Boxed Rolls per Pallet	16	Wrapped Rolls per Pallet	25
Roll Length	133' 9" (40.8 m)	Weight per Pallet	1,372 lb (622 kg)	Weight per Pallet	2,125 lb (964 kg)
Net Coverage	468 ft ² (43.5 m ²)	Pallet Size	48" x 39" (1.2 m x 1 m)	Pallet Size	43" x 43" (1.1 m x 1.1 m)
Roll Weight	80 lb (36.5 kg)	Coverage per Pallet	7,488 ft ² (696 m ²)	Coverage per Pallet	11,700 ft ² (1,087 m ²)

***LEED® Information**

Recycled Post Consumer Content: 0%
 Recycled Post Industrial Content: 0%
 Manufacturing Location: Québec, Canada
 *NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



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) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack GenFlex Vapor Shield Membrane more than two (2) pallets high.
- If the material must be stored temporarily on the roof before application, it must be elevated from the roof surface on a pallet, stored on end, and covered 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).

Please contact GenFlex Technical Services at 1-800-443-4272 option 1, for further information.

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