



Single Ply Roofing Systems (PVC)

JM PVC Fleece Backed

□ 50 □ 60

Description

JM PVC Fleece Backed is a flexible, thermoplastic membrane manufactured using an ultraviolet-resistant polyvinyl chloride and an Elvaloy® KEE (ketone ethylene ester) formulation. JM PVC Fleece Backed membranes are reinforced with a non-wicking polyester fabric and backed with a lightweight polyester fleece. The fleece backing is applied in-line ensuring a strong membrane to fleece bond. JM PVC Fleece Backed membranes provide excellent weathering characteristics, high tensile strength and long-term flexibility. JM PVC Fleece Backed membranes also have excellent resistance to harsh chemicals and industrial pollutants.

Use

JM PVC Fleece Backed membranes can be installed in new, reroof (tear-off) and recover roof constructions. In recover construction, if the existing roof is sound, the Johns Manville (JM) roof system can eliminate the cost of disposing of the original roof. JM PVC Fleece Backed membranes are installed over approved cushioning layers or insulations, when required.

The membrane is secured to the roof deck utilizing either mechanical fastening methods that have been tested for wind uplift in both static and dynamic pressure vessels, or adhering the membrane to an acceptable substrate. JM PVC Fleece Backed membranes are thermoplastic; therefore, when rolled out onto the roof substrate, they can be easily welded into one homogenous sheet using hot air welding procedures. Since the JM PVC Fleece Backed membrane utilizes a non-wicking reinforcement, the application of an edge sealant is not required.

Color

White

Special colors are available with extended lead times. Minimum order quantities may apply. Contact your local JM sales representative for additional information.

Sizes

Available in 50 mil and 60 mil thicknesses in the following sheet dimensions:

50 mil	76"x90' (1.9 m x 27.4 m)
60 mil	76"x90' (1.9 m x 27.4 m)

Applicable Standards

JM PVC Fleece Backed membranes meet or exceed all of the requirements of ASTM D 4434, Type III. In addition, JM PVC Fleece Backed mechanically fastened and adhered roof systems are classified by UL (Underwriter's Laboratories, Inc.), ULC (Underwriter's Laboratories of Canada) and FM Global. JM PVC Fleece Backed membranes meet the material requirements of the International Building Code.

Limitations

JM PVC Fleece Backed membranes are mechanically fastened or adhered to the structural roof deck according to FM Global requirements, published standard fastening patterns or adhesives recommendations. The membranes should not come into direct contact with asphalt, coal tar pitch or any petroleum-based product.

Energy and the Environment

ENERGY STAR®	Pass	Reflectivity:	0.86
Title 24	Pass	Reflectivity:	0.86
		Emissivity:	0.86
LEED		Reflectivity:	0.86
		Emissivity:	0.94
		Recycled Content	
		Post Consumer:	0%
		Post Industrial:	2.5%
		Producing Location:	Pawtucket, RI

Results shown are for the initial reflectivity and emittance for white membranes; emissivity values for Title 24 are tested per ASTM C 1371; LEED emissivity values are tested per ASTM E 408.

Placement of JM Membrane

JM specifications require acceptable wood nailers to be installed according to FM Global current recommendations in Loss Prevention Data Sheet 1-49 and current JM Detail Drawings. Insulation must neatly fit around all the roof penetrations and projections.

Insulations used must be accepted by JM for use in the system to be installed. Fastening of the insulation must be in strict accordance with JM standard fastening requirements and/or any applicable code requirements, whichever is most restrictive or required by the building owner.

Method of Attachment

See product guide specifications for proper installation methods and additional technical data.

Guarantees

JM provides full system guarantees as outlined below:

20 year	60 mil
15 year	50 and 60 mil
10 year	50 and 60 mil

For detailed guarantee information, see the JM system guarantee chart.

JM PVC Fleece Backed membranes meet or exceed all of the requirements of ASTM D 4434, Type III.

Typical Physical Properties

Property	ASTM Test Method	Values
Breaking Strength	D 751	>200 lbs./in. (35 kN/m)
Elongation at Break	D 751	>20%
Properties After Heat Aging		
Breaking Strength	D 751	>90% of original
Elongation	D 751	>90% of original
Tear Resistance	D 751	>45 lbs./in. (7.9 kN/m)
Low Temperature Bend	D 2136	Pass at -40°F (-40°C)
Accelerated Weathering Test	G 53	
Cracking (@7x magnification)		None
Crazing (@7x magnification)		None
Discoloration (@7x magnification)		Negligible
Linear Dimension Change	D 1204	<0.5%
Change in Weight After Immersion in Water	D 570	<3.0%

Refer to the Material Safety Data Sheet prior to using JM PVC Fleece Backed. Material Safety Data Sheet is available by calling 800-654-3103 or online at www.jm.com.

