

WeatherBond RBR Dusted Non-Reinforced EPDM Membrane



Overview

WeatherBond RBR 45-mil (1.14 mm) and 60-mil (1.52 mm) thick roofing membranes are non-reinforced Ethylene Propylene Diene Monomer (EPDM) based elastomeric homogeneous roof coverings. These roofing membranes may be used for new single-ply roof construction and re-roofing applications.

These membranes are available in widths of up to 50' (15 m) and lengths of up to 200' (60 m). All membranes are dusted. WeatherBond non-reinforced membranes are Fire Retardant (FR) membranes that are specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for the fire retardant roofing membranes.

Features and Benefits

- Meets lightweight requirements
- Provides a monolithic assembly
- No special equipment required for installation
- EPDM has more than 45 years of proven performance
- Available with Pre-Applied Seam Tape
- Ability to be installed over a variety of decks
- Full line of P&S (Peel & Stick) accessories
- Membranes are available in widths of up to 50' and lengths of up to 200' for faster installations and less seaming

- Fully adhered application allows for installation on any roof slope
- Ballasted applications provide excellent fire protection for the insulation and deck, superior energy efficiency, and the ability to perform as a "Cool Roof"

WeatherBond RBR Pre-Applied Seam Tape Technology

With WeatherBond's Pre-Applied Seam Tape technology, most of the labor to create seams between membrane panels is completed in a quality-controlled, state-of-the-art environment. This process results in a reliable seam with greater peel and shear strengths and with no entrapped air bubbles. Consistent placement of the Seam Tape also maximizes the splice area and results in a high-quality seam. WeatherBond Pre-Applied Seam Tape is available on all WeatherBond RBR EPDM membranes up to 30' (9 m) in width, providing the fastest way to complete a seam in today's roofing market.

Installation

WeatherBond RBR 45-mil (1.14 mm) and 60-mil (1.52 mm) -thick membranes are typically utilized in Fully Adhered Roofing Systems.

Fully Adhered Roofing System: insulation is mechanically attached or adhered to the roof deck. The substrate and membrane are coated with WeatherBond's EPDM Bonding Adhesive. The membrane is then rolled into place and broomed down. To complete seams between two adjoining membrane panels, apply primer to the splice area in conjunction with WeatherBond's Pre-Applied Seam Tape. As an alternative, WeatherBond's hand-applied P&S Seam Tape may be used.

CONSULT WEATHERBOND RBR INSTALLATION GUIDE FOR COMPLETE INSTALLATION INFORMATION.

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Precautions

1. Use proper stacking procedures to ensure sufficient stability of the materials.
2. Exercise caution when walking on a wet membrane. Membranes are slippery when wet.
3. Membranes with Pre-Applied Seam Tape should not be exposed to prolonged jobsite storage temperatures in excess of 90°F (32°C), otherwise the shelf life of the Seam Tape may be affected.
4. When membranes with Pre-Applied Seam Tape are used, shade the tape end of the rolls until ready to use in warm, sunny weather.

LEED® Info

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	3%
Manufacturing Location(s)	Carlisle, PA Greenville, IL
Solar Reflective Index	9

Typical Properties and Characteristics

Property	Test Method	SPEC. (Pass)	.045	.060
Tolerance on nominal thickness, %	ASTM D412	± 10	± 10	± 10
Weight, lbf/ft ² (kg/m ²)			0.26 (1.3)	0.35 (1.7)
Tensile Strength, min, psi (Mpa)	ASTM D412	1305 (9)	1600 (11.0)	1600 (11.0)
Elongation, Ultimate, min, %	ASTM D412	300	480	465
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)	200 (35.0)	200 (35.0)
Factory Seam Strength, min	Modified ASTM D816	Membrane Rupture	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 28 days @ 240°F (116°C)	ASTM D573			
Tensile Strength, min, psi (Mpa)	ASTM D412	1205 (8.3)	1500 (10.3)	1450 (10.0)
Elongation, Ultimate, min, %	ASTM D412	200	225	280
Tear Strength, min, lbf/in (kN/m)	ASTM D624	125 (21.9)	215 (37.6)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D1204	± 1.0	-0.4	-0.50
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D1149	No Cracks	No Cracks	No Cracks
Brittleness Temp., max, °F (°C)*	ASTM D746	-49 (-45)	-49 (-45)	-49 (-45)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2	+2.0	+2.0
Water vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.05	0.03
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temp.	ASTM G155	No Cracks No Cracking	No Cracks No Cracking	No Cracks No Cracking

* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

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