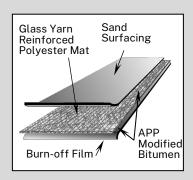


Technical Information Sheet



APP 160

Item Description	Item Number
1 Roll (1 square)	W70APP0162

Description

APP 160 is a smooth-surface APP modified bitumen membrane designed to be heat-welded. It consists of select asphalt, modified with atactic polypropylene, and strengthened with a fiber glass reinforced non-woven polyester mat [190 g/m 2 (3.9 lb/100 ft 2)] made with 100 % recycled PET fibers. The combination results in a flexible and durable material that exceeds the performance requirements of ASTM D 6222 Type I, Grade S APP 160 is strong and stable, and resistant to natural forces and other factors on the rooftop. It is ideal for both new construction and re-roofing applications as a base ply, cap sheet, or as a flashing sheet in single or multi-ply APP applications.

NOTE: Meets or exceeds performance requirements of ASTM D 6222, Type I, Grade S.

Product Packaging						
Property	Value	Property	Value			
Roll Width	3 ft 3 in (1 m)	Pallet Size	48 x 39 in (1.2 x 1 m)			
Roll Length	32 ft 10 in (10 m)	Rolls Per Pallet	20			
Net Coverage	98 ft ² (9.1 m ²)	Weight per Pallet	2,100 lb (952 kg)			
Roll Weight	105 lb (48 kg)					

Method of Application

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- 1. APP 160 must be installed by fully heat welding the membrane to an approved substrate.
- 2. Please reference the Holcim Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the application of APP 160.

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Acceptable Immediate Substrates for Heat-Welded Application

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved Elevate Base Sheet.
- Existing Smooth Surface BUR or APP Modified Bitumen (must be clean, smooth and primed with ASTM D-41 primer).
- DensDeck® Prime, SECUROCK® Gypsum Fiber

NOTE: Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed 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 100 °F (38 °C) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack APP 160 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.

Precautions

- For safety information, refer to the Safety Data Sheet (SDS) for APP Membranes and Flashing.
- Take care when transporting and handling Holcim 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.
- Refer to Safety Data Sheets (SDS) for additional safety information.

LEED® Information

Post-Consumer Recycled Content: 8 %
Post Industrial Recycled Content: 0 %

Manufacturing Location: Beech Grove, IN







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







Typical Properties (Meets ASTM D 1622, Type I, Grade S)						
Properties	Test Method	Performance Minimum	Typical Performance			
Product Thickness	D 5147	140 mil (3.5 mm)	154 mil (3.9 mm)			
Net Mass	D 146	70 lb/100 ft ² (3,418 g/m ²)	102 lb/100 ft² (4,980 g/m²)			
Bottom Side Coating	D 5147	30 mil (0.76 mm)	47 mil (1.20 mm)			
Peak Load at 73 °F (23 °C)	D 5147	50 lbf/in, MD (8.8 kN/m, MD)	55 lbf/in, MD (9.6 kN/m, MD)			
		50 lbf/in, XMD (8.8 kN/m, XMD)	55 lbf/in, XMD (9.6 kN/m, XMD)			
Elongation at Peak Load at	D 5147	23 %, MD	30 %, MD			
73 °F (23 °C)		23 %, XMD	30 %, XMD			
D1-1 1 -+ 0 °F (10 °O)	D 5147	60 lbf/in, MD (10.5 kN/m, MD)	65 lbf/in, MD (11.4 kN/m, MD)			
Peak Load at 0 °F (-18 °C)		60 lbf/in, XMD (10.5 kN/m, XMD)	65 lbf/in, XMD (11.4 kN/m, XMD)			
Elongation at Peak Load at) °F (18 °C)	D 5147	10 %, MD	15 %, MD			
		10 %, XMD	15 %, XMD			
Ultimate Elongation at 5 %	timate Elongation at 5 % Peak Load 73 °F (23 °C) D 5147	30 %, MD	40 %, MD			
of Peak Load /3 °F (23 °C)		30 %, XMD	40 %, XMD			
Tear Strength at 73 °F (23 °C)	D 5147, D 4073	70 lbf, MD (311 N, MD)	75 lbf, MD (334 N, MD)			
		70 lbf, XMD (311 N, XMD)	75 lbf, XMD (334 N, XMD)			
Low Temperature Flexibility	D 5147	32 °F (0 °C)	32 °F (0 °C)			
imensional Stability	D 5147, D 1204	1 % Change, MD	0.2 % Change, MD			
		1 % Change, XMD	0.2 % Change, XMD			
Compound Stability	D 5147	230 °F (110 °C)	270 °F (132 °C)			
Water Absorption	D 5147, D 95	3.2 %	0 %			
Moisture Content	D 5147, D 95	1%	0 %			
Low Temperature Unrolling	D 5636	41 °F (5 °C)	0 °F (-18 °C)			

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

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