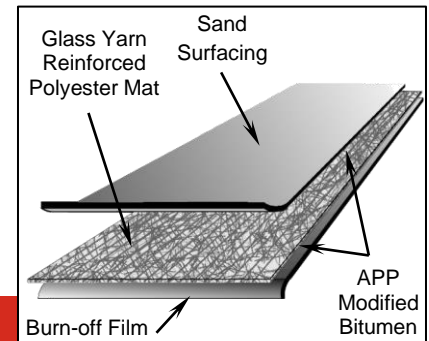


TECHNICAL INFORMATION SHEET

APP 160

Item Description
1 Roll (1 square)

Item Number
W70APP0162



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

Product Information

Description:

Firestone 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 nonwoven polyester mat [190 g/m² (3.9 lb/100 ft²)] 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.

Product Packaging

Roll Width	3' 3" (1 m)	Pallet Size	48" x 39" (1.2 m x 1 m)
Roll Length	32' 10" (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:

1. APP 160 must be installed by fully heat welding the membrane to an appropriate substrate.
2. Please see the Firestone Asphalt Roofing Systems Guide for Applicators and Designers at www.firestonebpc.com for detailed application information.

Acceptable Immediate Substrates for Heat-Welded Application:

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved Firestone 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 consult the Firestone Asphalt Roofing Systems Guide for Applicators and Designers and QuickSpecs online at www.firestonebpc.com 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 100 °F (38 °C) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack Firestone 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.

TECHNICAL INFORMATION SHEET

APP 160

Precautions:

- For safety information, refer to the Safety Data Sheet (SDS) for APP Membranes and Flashing.
- Take care when transporting and handling Firestone 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 Firestone Modified Bitumen membranes.

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 6222, Type I, Grade S)

Property	ASTM Standard	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 ft ² (4,980 g/m ²)
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 73 °F (23 °C)	D 5147	23%, MD	30%, MD
		23%, XMD	30%, XMD
Peak Load at 0 °F (-18 °C)	D 5147	60 lbf/in, MD (10.5 kN/m, MD)	65 lbf/in, MD (11.4 kN/m, MD)
		60 lbf/in, XMD (10.5 kN/m, XMD)	65 lbf/in, XMD (11.4 kN/m, XMD)
Elongation at Peak Load at 0 °F (-18 °C)	D 5147	10%, MD	15%, MD
		10%, XMD	15%, XMD
Ultimate Elongation at 5% of Peak Load 73 °F (23 °C)	D 5147	30%, MD	40%, MD
		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)
Dimensional 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 Firestone Technical Services Department at 1-800-428-4511 for further information.

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