

# TECHNICAL INFORMATION SHEET

## APP 170

### Item Description

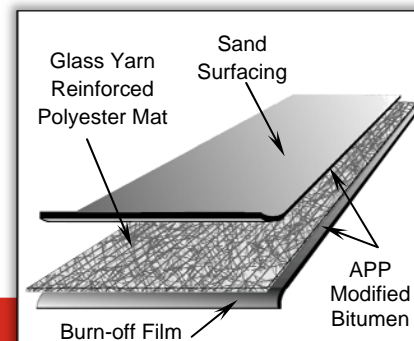
1 Roll (1 Square)

### Item Number

W70APP0172

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

### Product Information



### Description:

Firestone APP 170 is a heavier grade, smooth-surfaced 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 polyester nonwoven mat [190 g/m<sup>2</sup> (3.9 lb/100 ft<sup>2</sup>)] made with 100% recycled PET fibers. The combination results in a flexible and durable roofing membrane that exceeds the performance requirements of ASTM D 6222 Type I, Grade S. APP 170 is a membrane that 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 and 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 <sup>2</sup> (9.1 m <sup>2</sup> )	Weight per Pallet:	2,150 lb (977 kg)
Roll Weight:	105 lb (48 kg)		

### Method of Application:

1. APP 170 must be installed by fully heat welding the membrane to an appropriate substrate.
2. Please see the APP Design and Application Guide at [www.firestonebpco.com](http://www.firestonebpco.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 APP Design Guide and QuickSpecs online at [www.firestonebpco.com](http://www.firestonebpco.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 170 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.

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### Precautions:

- For safety information, refer to 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: 7%  
 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)	175 mil (4.5 mm)
Net Mass:	D 146	70 lb/100 ft <sup>2</sup> (3,418 g/m <sup>2</sup> )	103 lb/100 ft <sup>2</sup> (5,029 g/m <sup>2</sup> )
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 Quality Building Services Technical Department at 1-800-428-4511 for further information.

*This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.*