

# TECHNICAL INFORMATION SHEET

## APP180

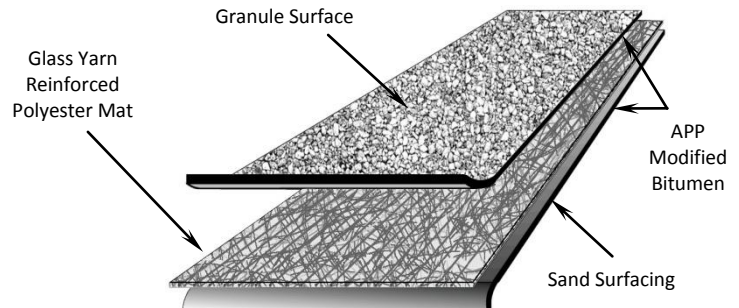
TIS #406

**ITEM NUMBERS:**

- W70PUWP1800 (UltraWhite™)**
- W70PWP1800 (White)**
- W70PBP1800 (Black)**

**Description:**

Firestone APP 180 is a granule surfaced APP modified bitumen membrane. It consists of select asphalt, modified with atactic polypropylene, and reinforced with a non-woven 190 g/m<sup>2</sup> (3.9 lb/100ft<sup>2</sup>) polyester mat, enhanced with continuous glass fiber strands in the machine direction. The combination results in a flexible, yet durable roofing membrane that exceeds the performance requirements of ASTM D 6222 Type I, Grade S. APP 180 is ideal for both new construction and re-roofing applications as a base ply, cap sheet, or as a flashing sheet in multi-ply applications. Low slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone APP 180 application.



**Method of Application:**

1. APP 180 shall be fully heat welded to an approved substrate. Please see the APP Design and Application Guide at [www.firestonebpc.com](http://www.firestonebpc.com) for detailed information regarding the application of APP180.

**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.
- If 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.
- Stack Firestone APP180 squarely in the original unopened packaging not more than two (2) pallets high.

**Precautions:**

- 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.
- Consult your Technical Coordinator at 800-428-4511 for specific recommendations.
- Refer to Material Safety Data Sheet for SBS Membranes and Flashing.

**Compliance:**

Post Consumer Recycled Content: 6%  
 Pre Consumer Recycled Content: 0%  
 Manufacturing Location: Beech Grove, IN



Note:  
 Dade County Approval  
 of UltraWhite products  
 is pending

**Packaging:**

Roll Width:	3.3 ft (1m)
Roll Length	32' 10"(10 m)
Net Coverage :	98 ft <sup>2</sup> (9 m <sup>2</sup> )
Roll Weight :	98 lb (39 kg)
Pallet Size :	48" x 39" (1.2 m x 1m)
Rolls per Pallet:	20
Weight per Pallet	2,020 lb (916 kg)

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## ASTM D 6222 Type I, Grade G

Physical Properties Tested in accordance with ASTM D 5147	ASTM Standard		Firestone Value	Metric Units	Firestone Value
	Required Value	Units			
Product Thickness	140	mil	162	mm	4.1
Net Mass	70	lb/100ft <sup>2</sup>	93	g/m <sup>2</sup>	4,554
Bottom Side Coating	30	mil	48	mm	1.2
Peak Load @ 0 °F (-18 °C)	60	lbf/inch, MD	120	kN/m	21
	60	lbf/inch, CD	100	kN/m	18
Elongation @ Peak Load @ 0 °F (18 °C)	10	% MD	24	%	24
	10	% CD	29	%	29
Peak Load @ 73 °F (-25 °C)	50	lbf/inch, MD	90	kN/m	21
	50	lbf/inch, CD	80	kN/m	16
Elongation @ Peak Load @ 73 °F (25 °C)	23	% MD	42	%	42
	23	% CD	51	%	51
Ultimate Elongation @ 5% of Peak load 73 °F (25 °C)	30	% MD	45	%	45
	30	% CD	57	%	57
Tear Strength @ 73 °F (25 °C)	70	lbf, MD	90	N	400
	70	lbf, CD	120	N	534
Dimensional Stability	1	% Change MD	-0.05	%	-0.05
	1	% Change CD	0.04	%	0.04
Low Temperature Flexibility	0	°F	14	°C	-10
Compound Stability	230	°F	270	°C	132

### Acceptable Substrates:

Structural Concrete (New and Existing)  
  
Gypsum  
Lightweight Concrete  
Plywood and OSB

### Notes:

Please consult the APP Design and Application Guide and Quick Specs on line at [www.firestonebpc.com](http://www.firestonebpc.com) to review specific information regarding fastener types appropriate for the type of deck and insulation in use.

### Firestone Insulation:

ISO 95+ GL™  
ISOGARD HD™  
RESISTA™  
DensDeck

Requires a coverboard when applied in hot asphalt  
Cannot be installed in hot asphalt  
Cannot be installed in hot asphalt  
Cannot be encapsulated in hot asphalt

### Reflectivity:



Solar Reflectance  
Thermal Emittance  
Rated Product ID  
Licensed Manufacturer ID  
Classification

Initial	Weathered	#
0.73	Pending	
0.89	Pending	
		0034
		0608
		Production Line

Please Contact your Firestone Technical Coordinator at 1-800-428-4511 for further information.

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