

TECHNICAL INFORMATION SHEET

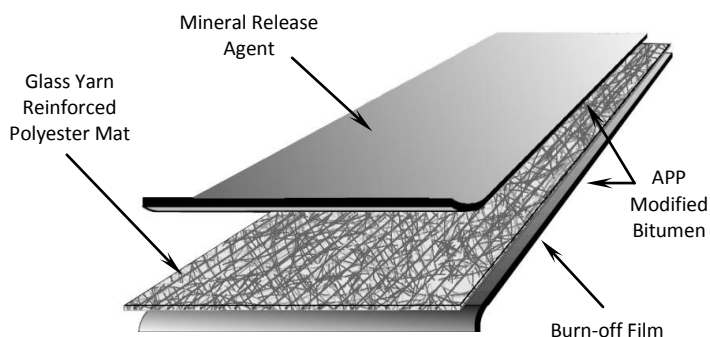
APP160 P

TIS #416

ITEM NUMBER: **W70APP0162P**

Description:

Firestone APP 160 P is a smooth surfaced APP modified bitumen membrane. It consists of select asphalt, modified with atactic polypropylene, and reinforced with a non-woven 190 g/m² (3.9 lb/100ft²) 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 160 P membranes are ideal for both new construction and re-roofing applications as a base ply, or as a base flashing sheet in multi-ply applications. Low slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone APP 160 P membrane application.



Method of Application:

1. APP 160 P membranes shall 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 for detailed information regarding the application of APP160.

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 APP160 P material 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 Roof System Advisor at 800-428-4511 for specific recommendations.
- Refer to Material Safety Data Sheet for APP Membranes and Flashing.

Compliance:

Post Consumer Recycled Content: 8%
Pre Consumer Recycled Content: 0%
Manufacturing Location: Beech Grove, IN



Packaging:

Roll Width:	3.3 ft (1m)
Roll Length	32' 10"(10 m)
Net Coverage :	98 ft ² (9 m ²)
Roll Weight :	98 lb (44.5 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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APP160

ASTM D 6222 Type I, Grade S

Physical Properties

Tested in accordance with ASTM D 5147

	ASTM Standard		Firestone	Metric	Firestone
	Required Value	Units	Value	Units	Value
Product Thickness	140	mil	160	mm	3.8
Net Mass	70	lb/100ft ²	100	g/m ²	4,003
Bottom Side Coating	30	mil	54	mm	1.4
Peak Load @ 0 °F (-18 °C)	60	lbf/inch, MD	160	kN/m	30
	60	lbf/inch, CD	135	kN/m	24
Elongation @ Peak Load @ 0 °F	10	% MD	50	%	50
(18 °C)	10	% CD	40	%	40
Peak Load @ 73 °F (-25 °C)	50	lbf/inch, MD	75	kN/m	16
	50	lbf/inch, CD	60	kN/m	14
Elongation @ Peak Load @ 73 °F	23	% MD	48	%	48
(25 °C)	23	% CD	52	%	52
Ultimate Elongation @ 5% of	30	% MD	57	%	57
Peak load 73 °F (25 °C)	30	% CD	60	%	60
Tear Strength @ 73 °F (25 °C)	70	lbf, MD	90	N	405
	70	lbf, CD	120	N	543
Dimensional Stability	1	% Change MD	-0.07	%	-0.07
	1	% Change CD	0.2	%	0.2
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.firestonebpco.com to review specific information regarding fastener types appropriate for the type of deck and insulation in use.
Mechanical attachment only
Requires a mechanically attached base sheet
Requires a mechanically attached base sheet or BaseGard SA

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

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

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