



APP 180

**Meets ASTM D 6222, Type I, Grade G
Tested in Accordance with ASTM D 5147**

**Firestone Item Number: 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/m² (5.6 oz./yd²) 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 G.

APP 180 is ideal for both new construction and re-roofing applications as a cap sheet in single or multi-ply applications. Low slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone APP 180 application.

Standard granule colors are White and Black.

APPLICATION METHOD:

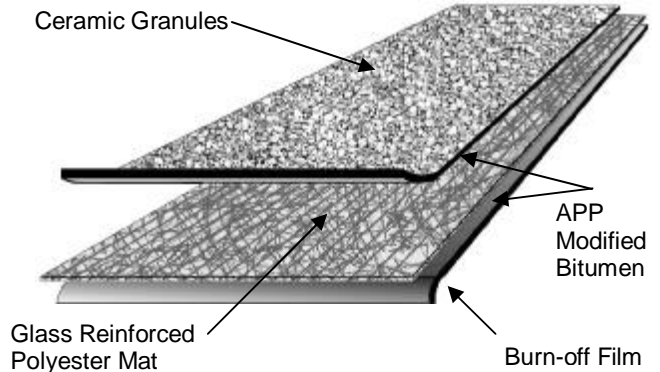
APP 180 shall be installed by fully heat welding to an appropriate substrate.

STORAGE:

All material must be stored out of the weather in a clean, dry area in its original unopened packaging at a minimum of 40° F (4° C) and a maximum of 140° F (60° C) so that it will be a minimum of 40° F (4° C) 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 not to exceed the allowable live load of the storage area.

This sheet is meant only to highlight Firestone's products and specifications. Information is subject to change without notice. Firestone takes responsibility for furnishing quality materials. As neither Firestone nor its representatives practice architecture, Firestone offers no opinion regarding, and expressly disclaims any responsibility for, the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure, or its ability to support a planned installation properly, the Owner should obtain opinions of competent



Manufactured in an ISO 9001 Registered Facility

| | |
|-------------------------------|--------------------------------|
| Roll Width: | 39.4" (1 m) |
| Roll Length: | 32' 10" (10 m) |
| Net Coverage: | 98 sq. ft (9.1 sq. m) |
| Roll Weight: | 105 lb (47.7 kg) |
| Pallet Size: | 48" x 39" (1.2 m x 1 m) |
| Rolls Per Pallet: | 20 |
| Weight Per Pallet: | 2,060 lb (936 kg) |
| Pallets Per Truckload: | 21 |

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. This product is not intended for application in hot applied asphalt. Contact Firestone Roof Solutions Department for specific recommendations.

Stack Firestone APP 180 Squarely In Original Unopened Packaging No More Than Two (2) Pallets High

LEED INFORMATION:

| | |
|-----------------------------------|-----------------|
| Post Consumer Recycled Content: | 6% |
| Post Industrial Recycled Content: | 0% |
| Manufacturing Location: | Beech Grove, IN |



Certificate Number
FM 38812



Membrane for Roofing Systems
As to an external Fire Exposure Only
61P2
See UL Directory of Products
Certified for Canada
and UL Roofing Materials
R9516



Cool Roof Rating Council
Identification Number 0608-0011
(for White Granules)

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S723-RFS-025

TECHNICAL INFORMATION SHEET

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structural engineers before proceeding. Firestone accepts no liability for any structural failure or for resultant damages, and no Firestone Representative is authorized to vary this disclaimer.

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| Dimensions and Mass | English | | | Metric | | |
|---------------------|------------------------|------|--------------|-------------------|-------|--------------|
| | Property | Unit | ASTM Minimum | Firestone Nominal | Unit | ASTM Minimum |
| Product Thickness | mil | 160 | 162 | mm | 4 | 4.1 |
| Net Mass | lb/100 ft ² | 85 | 93 | g/m ² | 4,150 | 4,544 |
| Bottom Coating | mil | 30 | 48 | mm | 0.76 | 1.2 |

Physical Properties

| | | | | | | | | |
|--|----------|-----|-----|-------|----------|------|-----|-------|
| Peak Load at 0° F (-18° C) (Tensile Strength) | lbf/in | 60 | MD | 120 | kN/m | 10.5 | MD | 21 |
| | | | XMD | 98 | | | XMD | 17 |
| Elongation at Peak Load at 0° F (-18° C) | % | 10 | MD | 24 | % | 10 | MD | 24 |
| | | | XMD | 29 | | | XMD | 29 |
| Peak Load at 73.4° F (25° C) (Tensile Strength) | lbf/in | 50 | MD | 84 | kN/m | 8.8 | MD | 15 |
| | | | XMD | 62 | | | XMD | 11 |
| Elongation at Peak Load at 73.4° F (25° C) | % | 23 | MD | 42 | % | 23 | MD | 42 |
| | | | XMD | 51 | | | XMD | 51 |
| Ultimate Elongation (at 5% of Peak Load) at 73.4° F (25° C) | % | 30 | MD | 45 | % | 30 | MD | 45 |
| | | | XMD | 57 | | | XMD | 57 |
| Tear Strength at 73.4° F (25° C) | lbf | 70 | MD | 125 | N | 311 | MD | 557 |
| | | | XMD | 85 | | | XMD | 377 |
| Dimensional Stability | % Change | 1 | MD | -0.05 | % Change | 1 | MD | -0.05 |
| | | | XMD | -0.04 | | | XMD | 0.04 |
| Low Temperature Flexibility | °F | 32 | 14 | | °C | 0 | -12 | |
| High Temperature Stability | °F | 230 | 270 | | °C | 110 | 132 | |
| Granule Loss | | | | | g | 2.0 | 0.4 | |

Physical Properties After Heat Conditioning

| | | | | | | | | |
|--|--------|----|------|----|------|-----|-----|----|
| Peak Load at 73.4° F (25° C) (Tensile Strength) | lbf/in | 50 | MD | 70 | kN/m | 8.8 | MD | 12 |
| | | | XMD | 59 | | | XMD | 10 |
| Elongation at Peak Load at 73.4° F (25° C) | % | 23 | MD | 40 | % | 23 | MD | 40 |
| | | | XMD | 47 | | | XMD | 47 |
| Low Temperature Flexibility | °F | 32 | 12.0 | | °C | 0 | 0 | |