



SBS Smooth

Meets ASTM D 6164, Type I, Grade S
Tested in Accordance with ASTM D 5147

Firestone Item Number: **W71PSS1400**

DESCRIPTION:

Firestone SBS Smooth is a modified bitumen sheet consisting of a Styrene-Butadiene-Styrene (SBS) rubber modified asphalt reinforced with a 180 g/m² (5.3 oz/yd²) non-woven polyester mat enhanced with continuous glass fiber strands in the machine direction. This sheet is designed to be used as an interply with a granular cap, or with flood coat of asphalt and gravel. The glass fiber strand reinforcement contributes to the following:

- Increased machine direction dimensional stability
- Excellent tensile strength and puncture resistance
- High flexibility for ease of installation

APPLICATION METHOD:

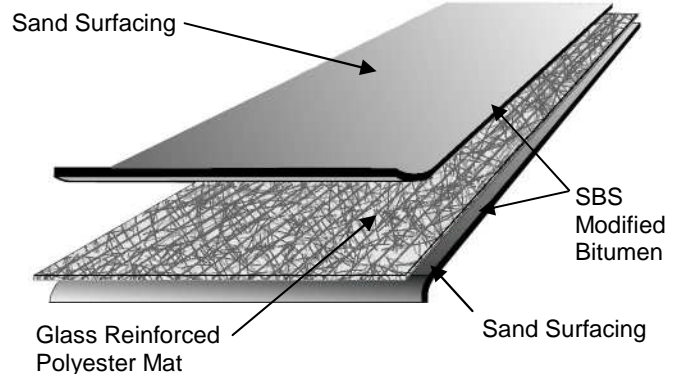
SBS Smooth shall be installed with conventional hot asphalt, or Firestone MB Cold Adhesive.

STORAGE:

All material should 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 to highlight Firestone's products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials, which meet Firestone's published product specifications. 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.



Manufactured in an ISO 9001 Registered Facility

PACKAGING:

Roll Width:	3.3 ft (1 m)
Roll Length:	33.5 ft (10.2 m)
Net Coverage:	100 ft ² (9.3 m ²)
Roll Weight:	90 lb (40.9 kg)

Pallet Size:	48" x 39" (1.2 m x 1 m)
Rolls Per Pallet:	20
Weight Per Pallet:	1,860 lb (844.3 kg)
Pallets Per Truckload:	24

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

PRECAUTIONS:

1. Take care when transporting and handling Firestone Modified Bitumen rolls to avoid punctures and other types of physical damage.
2. Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from all Firestone Modified Bitumen membranes.
3. Contact Firestone Roof Solutions Department for specific recommendations.
4. Refer to Material Safety Data Sheet for SBS Membranes and Flashing.

LEED INFORMATION:

Post Consumer Recycled Content:	4%
Post Industrial Recycled Content:	0%
Manufacturing Location:	Beech Grove, IN



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Dimensions and Mass	English			Metric		
Property	Unit	ASTM Minimum	Firestone Nominal	Unit	ASTM Minimum	Firestone Nominal
Product Thickness	mil	85.0	140.0	mm	2.2	3.6
Net Mass	lb/100 ft ²	54.0	84.6	g/ sq. m	2,636	4,130
Bottom Coating	mil	39.4	46.0	mm	1.0	1.2

Physical Properties

Peak Load, 0 °F (-18 °C) (Tensile Strength)	lbf/in	70	MD	129.0	kN/m	12.3	MD	22.6
			XMD	108.0			XMD	18.9
Elongation at Peak Load, 0 °F (-18 °C)	%	20	MD	50.0	%	20	MD	50.0
			XMD	63.0			XMD	63.0
Peak Load, 73.4 °F (25 °C) (Tensile Strength)	lbf/in	50	MD	70.0	kN/m	8.8	MD	12.3
			XMD	60.0			XMD	10.5
Elongation at Peak Load, 73.4 °F (25 °C)	%	35	MD	66.5	%	35	MD	66.5
			XMD	83.1			XMD	83.1
Elongation at 5% Peak Load, 73.4 °F (25 °C)	%	38	MD	116.0	%	38	MD	116.0
			XMD	125.0			XMD	125.0
Tear Strength, 73.4 °F (25 °C)	lbf	55	MD	110.0	N	244.8	MD	490.0
			XMD	83.0			XMD	370.0
Dimensional Stability	% Change	1	MD	-0.1	% Change	1	MD	-0.1
			XMD	0.2			XMD	0.2
Low Temperature Flexibility	°F	0	-30		°C	-18	-34	
High Temperature Stability	°F	215	270		°C	102	132	
Granule Loss			Not Applicable		g		Not Applicable	

Physical Properties After Conditioning

Peak Load, 0 °F (-18 °C) (Tensile Strength)	lbf/in	70	MD	158.0	kN/m	14.0	MD	27.6
			XMD	91.0			XMD	15.9
Elongation at Peak Load, 0 °F (-18 °C)	%	20	MD	54.0	%	10	MD	54.0
			XMD	28.0			XMD	28.0
Peak Load, 73.4 °F (25 °C) (Tensile Strength)	lbf/in	50	MD	88.0	kN/m	8.8	MD	15.4
			XMD	56.0			XMD	9.8
Elongation at Peak Load, 73.4 °F (25 °C)	%	35	MD	52.0	%	35	MD	52.0
			XMD	67.0			XMD	67.0
Elongation at 5% Peak Load, 73.4 °F (25 °C)	%	38	MD	82.0	%	38	MD	82.0
			XMD	94.0			XMD	94.0
Low Temperature Flexibility	°F	0	-10.0		°C	-18	-23.3	