



SBS Smooth

**Meets ASTM D 6164-00, 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/sq. m (5.3 oz/sq. yd.) 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

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

APPLICATION METHOD:

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

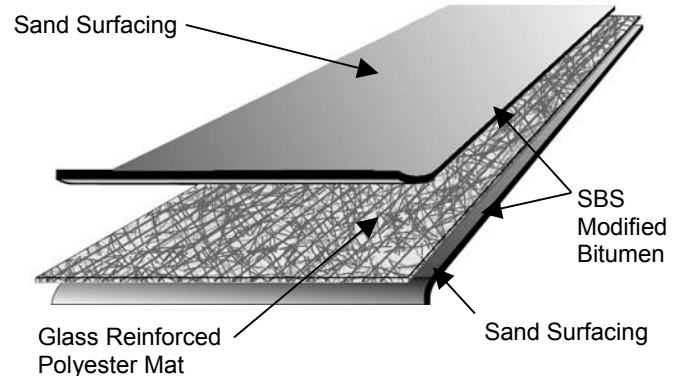
STORAGE:

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.

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

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, which meet Firestone's published product specification. As neither Firestone itself nor its representatives practice architecture, Firestone offers no opinion on, 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 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.



Manufactured in an ISO 9002 Registered Facility

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. Contact Firestone Technical Services Department for specific recommendations.

LEED INFORMATION:

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



Subject to the conditions of Approval when installed as described in the current edition of the FM Approval Guide



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



Certificate Number
FM 38812



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SBS Smooth



Meets ASTM D 6164-00, Type I, Grade S
Tested in Accordance with ASTM D 5147-02

Values shown are an average of actual
Quality Assurance values.

Dimensions and Mass	English			Metric		
	Property	Unit	ASTM Minimum	Firestone Nominal	Unit	ASTM Minimum
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

Maximum 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 Maximum Load, 0° F (-18° C)	%	20	MD	50.0	%	20	MD	50.0
			XMD	63.0			XMD	63.0
Maximum 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 Maximum Load, 73.4° F (25° C)	%	35	MD	66.5	%	35	MD	66.5
			XMD	83.1			XMD	83.1
Elongation at 5% Maximum 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
Strain Energy at Maximum Load, 73.4° F (25° C)	in*lbf/in ²	Not Stated	MD	42.1	N*m/m ²	Not Stated	MD	181.9
			XMD	38.9			XMD	168.0
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

Maximum 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 Maximum Load, 0° F (-18° C)	%	20	MD	54.0	%	10	MD	54.0
			XMD	28.0			XMD	28.0
Maximum 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 Maximum Load, 73.4° F (25° C)	%	35	MD	52.0	%	35	MD	52.0
			XMD	67.0			XMD	67.0
Elongation at 5% Maximum 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	