

TECHNICAL INFORMATION SHEET

SBS Premium FR

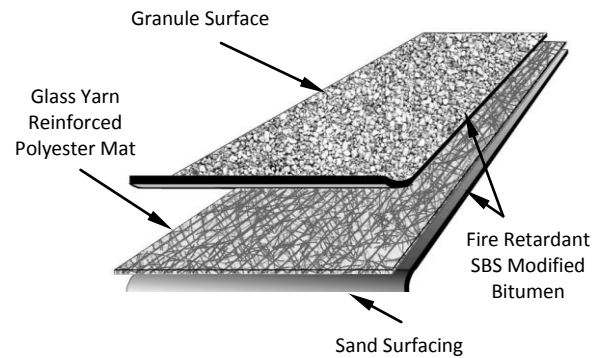
TIS #512

ITEM NUMBER: W71HUWS160F (UltraWhite™)
W71HWS160F (White)
W71HBS160P (Black)

Description:

Firestone SBS Premium FR is a Styrene-Butadiene-Styrene modified bitumen membrane that is reinforced with a 265 g/m² (5.43 lb/100 ft²) non-woven polyester mat enhanced with continuous glass fiber strands in the machine direction. The combination results in a flexible, durable membrane. The addition of SBS rubber optimizes asphalt's natural waterproofing characteristics and increases system performance. This proprietary Fire Retardant compound provides resistance to thermal and physical forces over a wide range of temperatures.

SBS Premium FR is ideal for both new construction and reproofing applications. Low slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone SBS Premium FR application. Firestone Premium FR with UltraWhite granules has a highly reflective surface designed to meet national, state and local energy code requirements.



Method of Application:

1. SBS Premium FR shall be installed with conventional hot asphalt, LiquiGuard™, or Firestone Multi-Purpose MB Cold Adhesive.
2. Please see the SBS Application Guide at www.firestonebpc.com for detailed information regarding the application of SBS Premium FR.

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 SBS Premium FR 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: 5%
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:	33.5 ft (10.2 m)
Net Coverage :	100 ft ² (9.3 m ²)
Roll Weight :	103 lb (46.8 kg)
Pallet Size :	48" x 39" (1.2 m x 1m)
Rolls per Pallet:	20
Weight per Pallet	2,120 lb (962 kg)

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SBS Premium FR ASTM D 6164 Type II, Grade G

Physical Properties:	ASTM Standard	Units	Firestone Value	Metric Units	Firestone Value
Product Thickness	130	mil	160	mm	4.1
Net Mass	90	lb/100ft ²	95	g/m ²	4,667
Bottom Side Coating	n/a	mil	35	mm	0.9
Peak Load @ 0 °F (-18 °C)	100	lbf/inch, MD	136	kN/m	24
		lbf/inch, CD	126	kN/m	23
Elongation @ Peak Load @ 0 °F (18 °C)	20	% MD	45	%	45
	20	% CD	50	%	50
Peak Load @ 73 °F (-25 °C)	70	lbf/inch, MD	80	kN/m	14
		lbf/inch, CD	75	kN/m	13
Elongation @ Peak Load @ 73 °F (25 °C)	50	% MD	51	%	51
	50	% CD	59	%	59
Ultimate Elongation @ 5% of Peak load 73 °F (25 °C)	60	% MD	100	%	100
	60	% CD	102	%	102
Tear Strength @ 73 °F (25 °C)	100	lbf/inch, MD	125	kN/m	555
Tear Strength @ 73 °F (25 °C)	100	lbf/inch, MD	105	kN/m	467
Dimensional Stability	1	% Change MD	-0.1	%	-0.1
	1	% Change CD	0.2	%	0.2
Low Temperature Flexibility	0	°F	-25	°C	-32
Compound Stability	215	°F	270	°C	132
Granule Loss	2	grams	0.7	grams	0.7

Acceptable Substrates:

Structural Concrete (New and Existing)
Gypsum
Lightweight Concrete
Plywood and OSB
Existing Granule Surfaced Modified Bitumen

Firestone Insulation Note:

ISO 95+ GL™
ISOGARD HD™
RESISTA™
DensDeck

Notes:

Please consult the SBS Design Guide and Quick Specs on line at www.firestonebpc.com to review specific information regarding fastener types appropriate for the type of deck and insulation in use.

Please consult the SBS Design Guide and Quick Specs on line at www.firestonebpc.com to review specific information regarding the appropriate fastener or adhesive for the deck and type of insulation in use.

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: UltraWhite only	Initial	Weathered	#
Solar Reflectance	0.73	pending	
Thermal Emittance	0.92	pending	
Rated Product ID			0034
CRRC COOL ROOF RATING COUNCIL CHARTER MEMBER			0608
@ Licensed Manufacturer ID Classification			Production Line

Solar Reflectance Index (SRI) = 87

SRI calculated using the ORNL (DOE) calculator, ASTM E 1980-01

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

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