

TECHNICAL INFORMATION SHEET

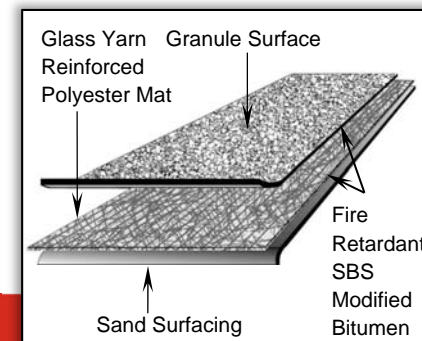
SBS Premium FR

Item Description

- 1 Roll – UltraWhite™ (1 Square)
- 1 Roll – White (1 Square)
- 1 Roll – Black (1 Square)

Item Number

- W71HUWS160F
- W71HWS160F
- W71HBS160F



Meets or exceeds performance requirements of ASTM D 6164, Type II, Grade G

Product Information

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 yarn. The combination results in a flexible, durable membrane. The addition of SBS rubber optimizes the natural waterproofing characteristics of asphalt 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 reroofing applications. Low-slope roofs of any size, even those with numerous penetrations, may accommodate a Firestone SBS Premium FR application. Firestone SBS Premium FR with UltraWhite™ granules has a highly reflective surface designed to meet national, state and local energy code requirements.

Product Packaging

Roll Width:	3' 3" (1 m)	Pallet Size:	48" x 39" (1.2 m x 1 m)
Roll Length:	33' 6" (10.2 m)	Rolls Per Pallet:	20
Net Coverage:	98 ft ² (9.1 m ²)	Weight per Pallet:	2,050 lb (932 kg)
Roll Weight:	100 lb (45 kg)		

Method of Application:

- SBS Premium FR may be installed with Firestone-approved hot asphalt, Firestone Multi-Purpose MB Cold Adhesive, or LiquiGard™ Adhesive.
- Please see the SBS Design and Application Guide at www.firestonebpco.com for detailed application information.

Acceptable Immediate Substrates for Hot Asphalt Application:

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Existing Smooth Surface BUR or SBS Modified Bitumen (must be clean, smooth and primed with ASTM D-41 primer).
- FiberTop, DensDeck® Prime, SECUROCK® Gypsum Fiber.

Acceptable Immediate Substrates for Cold Adhesive Application:

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved Firestone base sheet.
- Existing Smooth Surface BUR or SBS Modified Bitumen (must be clean, smooth and primed with ASTM D-41 primer).
- DensDeck Prime, SECUROCK Gypsum Fiber, STRUCTODEK® HD.
- Firestone ISO 95+™ GL Insulation, ISOGARD™ HD Composite or Cover Board, RESISTA™ Insulation.

NOTE: Please consult the SBS Design Guide and QuickSpecs online at www.firestonebpco.com to review specific information regarding the type of deck and insulation in use.

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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.
- Do not stack Firestone SBS Premium FR more than two (2) pallets high.
- If the 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.

Precautions:

- For safety information, refer to the Safety Data Sheet (SDS) for SBS Membranes and Flashing.
- 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.

LEED® Information:

Post Consumer Recycled Content: 5%

Pre-Consumer Recycled Content: 0%

Manufacturing Location: Beech Grove, IN

*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



Typical Properties (Meets ASTM D 6164, Type II, Grade G)

Property	ASTM Standard	ASTM Standard Required Value	Typical Performance
Product Thickness:	D 5147	130 mil (3.3 mm)	160 mil (4.1 mm)
Net Mass:	D 146	90 lb/100 ft² (4,394 g/m²)	95 lb/100 ft² (4,639 g/m²)
Bottom Side Coating:	D 5147	N/A	39 mil (1.0 mm)
Peak Load at 0 °F (-18 °C):	D 5147	100 lbf/in, MD (18 kN/m, MD)	105 lbf/in, MD (18 kN/m, MD)
		100 lbf/in, XMD (18 kN/m, XMD)	105 lbf/in, XMD (18 kN/m, XMD)
Elongation at Peak Load at 0 °F (-18 °C):	D 5147	20%, MD	30%, MD
		20%, XMD	30%, XMD
Peak Load at 73 °F (23 °C):	D 5147	70 lbf/in, MD (12 kN/m, MD)	75 lbf/in, MD (13 kN/m, MD)
		70 lbf/in, XMD (12 kN/m, XMD)	75 lbf/in, XMD (13 kN/m, XMD)
Elongation at Peak Load at 73 °F (23 °C):	D 5147	50%, MD	55%, MD
		50%, XMD	55%, XMD
Ultimate Elongation at 5% of Peak Load 73 °F (23 °C):	D 5147	60%, MD	65%, MD
		60%, XMD	65%, XMD
Tear Strength at 73 °F (23 °C):	D 5147, D 4073	70 lbf, MD (311 N, MD)	75 lbf, MD (334 N, MD)
		70 lbf, XMD (311 N, XMD)	75 lbf, XMD (334 N, MD)
Low Temperature Flexibility:	D 5147	0 °F (-18 °C)	-15 °F (-26 °C)
Dimensional Stability:	D 5147, D 1204	1% Change, MD	0.2% Change, MD
		1% Change, XMD	0.2% Change, XMD
Compound Stability:	D 5147	215 °F (102 °C)	250 °F (121 °C)
Granule Loss:	D 4977	2 g	0.5 g

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Radiative Properties (UltraWhite Sheet Only)

<u>Cool Roof Rating Council (CRRC):</u>	<u>UltraWhite Sheet: Initial / 3 yr Simulated**</u>
Solar Reflectance	0.71 / 0.71**
Thermal Emittance	0.87 / 0.87**
Rated Product ID	0034
Licensed Manufacturer ID	0608
Classification	Production Line
Solar Reflectance Index (SRI)*	87
* SRI calculated using the ORNL (DOE) calculator, ASTM E 1980-01	
**CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values.	

NOTE: The SRI for standard white membrane is 34. The SRI for black membrane is N/A.



Please contact Quality Building Services Technical Department at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. 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.