

TECHNICAL INFORMATION SHEET

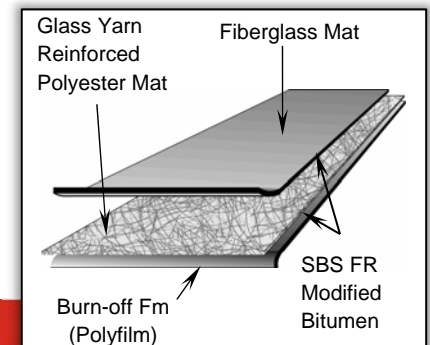
SBS FR Torch

Item Description

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

Item Number

- W71PUWP16FT2
- W71PWP16FT2
- W71PBP16FT2



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

Product Information

Description:

Firestone SBS FR Torch is a modified bitumen membrane featuring a blend of SBS (Styrene-Butadiene-Styrene) rubber polymer and high-quality asphalt reinforced with a 190 g/m² (3.89 lb/100 ft²) strong non-woven polyester mat enhanced with continuous fiberglass yarns. The addition of SBS rubber polymer and fire-retardant materials optimizes the asphalt blend to increase its natural waterproofing properties, adding elongation, elasticity, flexibility and resistance to fire. The fiberglass-reinforced polyester mat provides strength and stability to the product, yielding a membrane that resists natural forces and other factors on the rooftop. SBS FR Torch is designed specifically as the top layer for use with Firestone SBS Modified Bitumen Systems and has the bottom surface covered with a poly burn-off film to aid in heat welding applications. Firestone SBS Systems are ideal for use on both new construction and re-roofing projects.

Firestone SBS FR Torch 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:	1,950 lb (886 kg)
Roll Weight:	95 lb (43 kg)		

Method of Application:

1. SBS FR Torch shall be installed by fully heat welding the membrane to an appropriate substrate.
2. Please see the SBS Design and Application Guide at www.firestonebpco.com for detailed application information.

Acceptable Immediate Substrates for Heat-Welded 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.

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.

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 FR Torch 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.

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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:

Postconsumer Recycled Content: 3%

Preconsumer 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 I, 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	75 lb/100 ft² (3,661 g/m²)	90 lb/100 ft² (4,394 g/m²)
Bottom Side Coating:	D 5147	40 mil (1.02 mm)	43 mil (1.1 mm)
Peak Load at 0 °F (-18 °C)	D 5147	70 lbf/in, MD (12 kN/m)	80 lbf/in, MD (14 kN/m, MD)
		70 lbf/in, XMD (12 kN/m)	80 lbf/in, XMD (14 kN/m, XMD)
Elongation at Peak Load at 0 °F (-18 °C):	D 5147	20%, MD	50%, MD
		20%, XMD	50%, XMD
Peak Load at 73 °F (23 °C):	D 5147	50 lbf/in, MD (9 kN/m, MD)	55 lbf/in, MD (10 kN/m)
		50 lbf/in, XMD (9 kN/m, XMD)	55 lbf/in, XMD (10 kN/m)
Elongation at Peak Load at 73 °F (23 °C):	D 5147	35%, MD	50%, MD
		35%, XMD	50%, XMD
Ultimate Elongation at 5% of Peak Load 73 °F (23 °C):	D 5147	38%, MD	60%, MD
		38%, XMD	60%, XMD
Tear Strength at 73 °F (23 °C):	D 5147, D 4073	55 lbf, MD (246 N, MD)	60 lbf, MD (267 N, MD)
		55 lbf, XMD (246 N, XMD)	60 lbf, XMD (267 N, XMD)
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.

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