

TECHNICAL INFORMATION SHEET

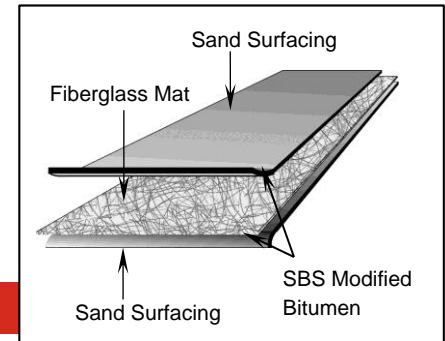
SBS Base

Item Description

1 Roll (1.5 Square)

Item Number

W71FSS0825



Meets or exceeds performance requirements of ASTM D 6163, Type I, Grade S

Product Information

Description:

Firestone SBS Base is a modified bitumen membrane featuring a blend of SBS (Styrene-Butadiene-Styrene) rubber polymer and high-quality asphalt reinforced with a 1.8 lb/100 ft² (90 g/m²) strong non-woven fiberglass mat. The addition of SBS rubber polymer optimizes the asphalt blend to increase its natural waterproofing properties, adding elongation, elasticity and flexibility. The inorganic fiber glass reinforcement resists moisture absorption and provides strength and stability to the product, yielding a membrane that resists natural forces and other factors on the rooftop. SBS Base is designed specifically as a base layer for use with Firestone SBS Modified Bitumen Systems and is ideal for use on both new construction and reroofing projects.

Product Packaging

Roll Width	3' 3" (1 m)	Pallet Size	48" x 39" (1.2 m x 1 m)
Roll Length	50' (15.2 m)	Rolls per Pallet	25
Net Coverage	149 ft ² (13.8 m ²)	Weight per Pallet	2,175 lb (989 kg)
Roll Weight	85 lb (39 kg)		

Method of Application:

1. SBS Base can be installed in Firestone-approved hot asphalt or Firestone Multi-Purpose MB Cold Adhesive.
2. Please see the Firestone Asphalt Roofing Systems Guide for Applicators and Designers at www.firestonebpc.com for detailed application information.

Acceptable Immediate Substrates for Cold Adhesive 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)
- DensDeck® Prime, SECUROCK® Gypsum Fiber
- Firestone ISO 95+™ GL Insulation, ISOGARD™ HD Composite, ISOGARD HD Cover Board, and RESISTA™ Insulation

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, STRUCTODEK® HD with Primed Red Coating

NOTE: Please consult the Firestone Asphalt Roofing Systems Guide for Applicators and Designers and QuickSpecs online at www.firestonebpc.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 Base membrane 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.

TECHNICAL INFORMATION SHEET

SBS Base

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: 0%

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 6163, Type I, Grade S)

Property	ASTM Standard	ASTM Standard Required Value	Typical Performance
Product Thickness	D 5147	80 mil (2 mm)	90 mil (2.3 mm)
Net Mass	D 146	45 lb/100 ft ² (2,197 g/m ²)	57 lb/100 ft ² (2,783 g/m ²)
Bottom Side Coating	D 5147	N/A (Not a Torch Product)	31 mil (0.8 mm)
Peak Load at 0 °F (-18 °C)	D 5147	70 lbf/in, MD (12.3 kN/m)	75 lbf/in, MD (13.1 kN/m, MD)
		70 lbf/in, XMD (12.3 kN/m)	75 lbf/in, XMD (13.1 kN/m, MD)
Elongation at Peak Load at 0 °F (-18 °C)	D 5147	1%, MD	3%, MD
		1%, XMD	3%, XMD
Peak Load at 73 °F (23 °C)	D 5147	30 lbf/in, MD (5.3 kN/m)	40, lbf/in, MD (7.0 kN/m)
		30 lbf/in, XMD (5.3 kN/m)	40, lbf/in, XMD (7.0 kN/m)
Elongation at Peak Load at 73 °F (23 °C)	D 5147	2%, MD	3%, MD
		2%, XMD	3%, XMD
Ultimate Elongation at 5% of Peak Load 73 ° F (23 °C)	D 5147	3%, MD	15%, MD
		3%, XMD	15%, XMD
Tear Strength at 73 °F (23 °C)	D 5147, D 4073	35 lbf, MD (156 N)	40 lbf, MD (178 N, MD)
		35 lbf, XMD (156 N)	40 lbf, XMD (178 N, XMD)
Low Temperature Flexibility	D 5147	0 °F (-18 °C)	-15 °F (-26 °C)
Dimensional Stability	D 5147, D 1204	0.5% Change, MD	0.2% Change, MD
		0.5% Change, XMD	0.2% Change, XMD
Compound Stability	D 5147	215 °F (102 °C)	250 °F (121 °C)

Please contact Firestone Technical Services 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.

TECHNICAL INFORMATION SHEET

SBS Torch

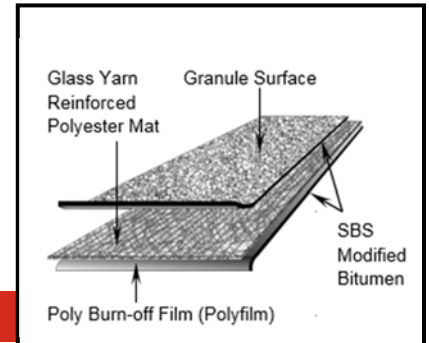
Item Description

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

Item Number

- W71PUWP160T
- W71PWP160T
- W71PBP160T

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



Product Information

Description:

Firestone SBS Torch is a Styrene-Butadiene-Styrene modified bitumen membrane that is reinforced with a 190 g/m² (3.89 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 compound provides resistance to thermal and physical forces over a wide range of temperatures.

SBS Torch 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 Torch application. Firestone SBS 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 Torch shall be installed by fully heat welding the membrane to an appropriate substrate.
2. Please see the Firestone Asphalt Roofing Systems Guide for Applicators and Designers at www.firestonebpc.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 Firestone Asphalt Roofing Systems Guide for Applicators and Designers and QuickSpecs online at www.firestonebpc.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 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.

TECHNICAL INFORMATION SHEET

SBS Torch

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: 4%

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 I, Grade G)

Property	ASTM Standard	ASTM Standard Required	Typical Performance
Product Thickness	D 5147	130 mil (3.3 mm)	150 mil (3.8 mm)
Net Mass	D 146	75 lb/100 ft ² (3,661 g/m ²)	90 lb/100 ft ² (4,394 g/m ²)
Bottom Side Coating	D 5147	40 mil (1.0 mm)	43 mil (1.1 mm)
Peak Load at 0 °F (-18 °C)	D 5147	70 lbf/in, MD (12 kN/m, MD)	80 lbf/in, MD (14 kN/m, MD)
		70 lbf/in, XMD (12 kN/m, XMD)	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, MD)
		50 lbf/in, XMD (9 kN/m, XMD)	55 lbf/in, XMD (10 kN/m, XMD)
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, D 1204	0 °F (-18 °C)	-15 °F (-26 °C)
Dimensional Stability	D 5147	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

TECHNICAL INFORMATION SHEET

SBS Torch

Radiative Properties (UltraWhite Sheet Only)

Cool Roof Rating Council (CRRC)	UltraWhite Sheet: Initial / 3 yr
Solar Reflectance	0.71 / 0.51
Thermal Emittance	0.87 / 0.90
Rated Product ID	0034
Licensed Manufacturer ID	0608
Classification	Production Line
Solar Reflectance Index (SRI)*	87 / 60
* SRI calculated using the ORNL (DOE) calculator, ASTM E 1980-01	

NOTE: The SRI for standard white membrane is 31. The SRI for black membrane is N/A.



Please contact Firestone Technical Services 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.