

FLEXIGLAS™ FR BASE SHEET

A FIRE RESISTANT, SBS MODIFIED BITUMEN, COATED, FIBER GLASS BASE SHEET

Product Information



Product Use: FLEXIGLAS FR Base Sheet is a fire rated base sheet utilized in two-ply or multi-layer modified bitumen fire rated roofing systems. It is suitable for use in the construction of various types of roof membrane assemblies for both new construction and recover, over a variety of substrates. FLEXIGLAS FR Base Sheet is reinforced with a tough fibrous glass fabric.

Precautions: FLEXIGLAS FR Base Sheet is intended for hot asphalt application or approved cold adhesive such as CertainTeed's FlintBond™. Rolls should be stored upright, off ground, completely protected from the weather. Roof decks shall be structurally sound, dry, smooth and meet or exceed minimum requirements of the deck manufacturer, local code and CertainTeed. Additional specifications and precautions are contained in the CertainTeed Commercial Roof Systems Manual.

Product Composition and Features: FLEXIGLAS FR Base Sheet is manufactured on a durable, high quality fiber glass mat which receives a heavy coating of weathering grade, rubberized asphalt. It is manufactured on state of the art, dedicated roofing lines that were exclusively designed for the production of modified bitumen products.

Roll Dimensions: 39³/₈" X 49' 6"
Coverage*: One and a half squares

(*When applied according to CertainTeed's specification)

Approximate Weight: 90 lbs. per roll
Top Surface: Mineral Release Agent

Applicable Standards: FLEXIGLAS FR Base Sheet is approved by Underwriters Laboratories for use in various Class A, B, and C roof assemblies ICS-ES (ESR-1388), Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 479). Consult www.certainteed.com/lowslopetechinfo for details. Meets ASTM D4601, Type II and D6163 Grade S, Type I.

Technical Data

Modified Bitumen Coating: Non-oxidized (flux) asphalt, blended with a compatible elastomeric styrene-butadiene-styrene polymer and selected inert fillers.

Support Mat: Wet process fiber glass mat.

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	78/65 lbs./in.
	@ 0 +/- 3.6°F MD/XD	95/90 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	4%/4%
	@ 0 +/- 3.6°F MD/XD	4%/4%
Dimensional Stability:	ASTM D5147 MD/XD	0.1/0.1 Max
Low Temperature Flex:	ASTM D5147	Pass @ -20°F
Compound Stability:	ASTM D5147	250°F
Thickness:	ASTM D5147	2.3mm (92 mils)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	90/70 lbs.

*NOTE: Published results are nominal production values confirmed by independent laboratory testing.

Product Application

FLEXIGLAS FR Base Sheet shall be applied in accordance with installation procedures contained in the CertainTeed Commercial Roof Systems Manual. The following information is intended for general information purposes only and is not all-inclusive.

Preparation: Substrates to receive a roof system shall be firmly attached, smooth, dry, clean and free of depressions and sharp projections. Substrates requiring priming shall be primed with asphalt primer such as FlintPrime™ and be allowed to completely dry. Substrates shall provide positive drainage. Roof insulation shall be tapered to drains.

Installations: FLEXIGLAS FR Base Sheet shall be installed with 3" side laps and 4" end laps, with end laps diagonally staggered not less than 3 feet apart. FLEXIGLAS FR Base Sheet shall be mechanically fastened to nailable substrates, and either solid or spot-mopped in hot asphalt or cold applied to non-nailable or insulated substrates as specified in the CertainTeed Commercial Roof Systems Manual. Spot-mopping, when specified, shall be applied in 9" diameter circles, 24" o.c. in all directions. Solid moppings shall be applied at the rate of 25 lbs. per 100 sq. ft.

Precautions: Cold weather applications require special handling to prevent damage to the rolls and to ensure satisfactory installation. Do not apply roofing systems over improperly prepared substrates or substrates which contain moisture. Asphalt temperature at point of application shall not fall below 425°F to ensure maximum adhesion.

Maintenance: CertainTeed Commercial Roof Systems do not require any additional maintenance beyond normal roof maintenance procedures. CertainTeed recommends regular roof maintenance and inspection to determine the condition of drains, flashings and other similar items, and to prolong the life expectancy of the roof system.

Warranties

CertainTeed offers a number of different types of Roof Membrane Warranties designed to meet the building owner's specific requirements. Please contact your nearest CertainTeed office for additional information and requirements.

Technical Assistance and Services

CertainTeed provides technical assistance in the design, selection, specification and application guidelines of FLINTLASTIC Roof Systems. Architectural and field representatives are available for consultation within each region.

For more information, contact CertainTeed's Customer Support at 800-233-8990.

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