

## FLINTLASTIC® FR CAP SHEET COOLSTAR™ MINERAL SURFACED, FIRE RESISTANT, SBS MODIFIED BITUMEN FIBER GLASS CAP SHEET WITH REFLECTANT COOLSTAR COATING



### Product Information



**Product Use:** FLINTLASTIC FR CAP SHEET COOLSTAR is a fire rated, glass mat cap sheet used in two-ply or multi-layer modified bitumen fire rated roofing systems. It is designed for use as a cap sheet over inorganic and organic built-up roofing systems. FLINTLASTIC FR CAP SHEET COOLSTAR is suitable for both new construction and reroofing membranes over a variety of substrates. It is surfaced with ceramic granules and an acrylic-based CoolStar coating to provide a durable, heat reflective weathering surface when used as a cap sheet. FLINTLASTIC FR CAP SHEET COOLSTAR is reinforced with a tough fibrous glass fabric.

**Limitations:** FLINTLASTIC FR CAP SHEET COOLSTAR 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:** FLINTLASTIC FR CAP SHEET COOLSTAR is reinforced with a durable, high quality fiber glass mat which receives a heavy coating of fire-retardant modified bitumen compound. FLINTLASTIC FR CAP SHEET COOLSTAR is manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen roofing membrane.

- Roll Size:** 39<sup>3</sup>/<sub>8</sub>" X 33' 11"
- Coverage\*:** One square  
(\*When applied according to CertainTeed's specification)
- Approximate Weight:** 95 lbs. per roll
- Top Surface:** Ceramic granules and flexible, acrylic-based CoolStar coating
- Back Surface:** Mineral release agent

**Applicable Standards:** FLINTLASTIC FR CAP SHEET COOLSTAR is approved by Underwriters Laboratories for use in various Class A, B, and C roof assemblies, by ICC (ESR-1388), Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL479), LA Research Report (#25082), Texas Department of Insurance and Cool Roof Rating Council. Consult [www.certainteed.com/lowslopetechinfo](http://www.certainteed.com/lowslopetechinfo) for details. Meets ASTM D6163, Grade G, Type I.

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

	<b>Solar Reflectance</b>	<b>Initial 0.75</b>	<b>Weathered Pending</b>
	<b>Thermal Emittance</b>	<b>0.93</b>	<b>Pending</b>
	Rated Product ID	0025	
	Licensed Manufacturer ID	0668	
Classification		Production Linen	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

**Suggest Solar Reflective Index (SRI) = 93.0**

### Technical Data

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4°F ± 3.6° MD / XD	80/66 lbs. per in.
	@ 0°F ± 3.6° MD / XD	110/90 lbs. per in.
Elongation:	ASTM D5147	
	@ 73.4°F ± 3.6° MD / XD	4% / 4%
	@ 0°F ± 3.6° MD / XD	4% / 4%
Dimensional Stability:	ASTM D5147 MD / XD	0.1 / 0.1 Max
Low Temperature Flex:	ASTM D5147	Pass @ -15°F
Compound Stability:	ASTM D5147	250°F
Thickness:	ASTM D5147	3.5mm (140 mils)
Tear Strength:	ASTM D5147	
	@ 73.4°F ± 3.6° MD / XD	100 / 80 lbs.

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

## **Product Application**

FLINTLASTIC FR CAP SHEET COOLSTAR roof systems must 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.

**Installation:** Unless otherwise specified by CertainTeed, a CertainTeed approved base sheet shall be installed with 3" sidelaps and 4" endlaps, with endlaps diagonally staggered not less than 3 feet apart. The 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 square feet. Over the base ply, solid mop one ply of FLINTLASTIC FR CAP SHEET COOLSTAR lapping 4¼" on sides and 6" on ends with endlaps diagonally staggered not less than 3 feet apart. Sides and endlaps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately ¾" beyond lap edge. Asphalt bleed-out may be touched up with CoolStar Touch-Up Coating or other white elastomeric coatings. Refer to the CertainTeed Commercial Roof Systems Manual for additional specifications.

**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. Follow adhesive manufacturer's requirements when using cold adhesive.

**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 for 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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