

## FLINTLASTIC® FR CAP 30 T COOLSTAR™

(Formerly Flintlastic FR Cap T CoolStar)

**MINERAL SURFACED, FIRE RESISTANT, SBS MODIFIED BITUMEN FIBER GLASS CAP SHEET WITH REFLECTANT COOLSTAR COATING**



### Product Information



**Product Use:** FLINTLASTIC FR CAP 30 T 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 30 T COOLSTAR is suitable for both new construction and reroofing membranes over a variety of substrates. It is surfaced with ceramic granules and a flexible acrylic-based CoolStar coating. FLINTLASTIC FR CAP 30 T COOLSTAR is reinforced with a tough fibrous glass fabric.

**Limitations:** FLINTLASTIC FR CAP 30 T COOLSTAR is intended for torch application. 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 30 T COOLSTAR is reinforced with a durable, high quality fiber glass mat which receives a heavy coating of weathering grade rubberized asphalt. FLINTLASTIC FR CAP 30 T 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 3/8" X 32' 10"

**Coverage\*:** One square

(\*When applied according to CertainTeed's specification)

**Approximate Weight:** 105 lbs. per roll

**Top Surface:** Mineral granules and flexible, acrylic-based CoolStar coating

**Back Surface:** Mineral Release Agent

**Applicable Standards:** FLINTLASTIC FR CAP 30 T COOLSTAR is approved by Underwriters Laboratories for use in various Class A, B, and C roof assemblies, ICC (pending), Factory Mutual and Cool Roof Rating Council. FLINTLASTIC FR CAP 30 T COOLSTAR is an approved ENERGY STAR® product. Initial Solar Reflectance: 0.72; Aged Solar Reflectance: 0.63; Initial Thermal Emittance: 0.87. Meets ASTM D6163, Grade G, Type I. Consult [www.certainteed.com/lowslopetechinfo](http://www.certainteed.com/lowslopetechinfo) for details.

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

Test Description	Test Method	Results*
Solar Reflectance Index (SRI):	ASTM E1980	87.7
Softening Point:	ASTM D36	260°F
Tensile Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	65/40 lbs./in.
	@ 0 +/- 3.6°F MD/XD	110/90 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	4.0mm (160 mils)
Tear Strength:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	120/95 lbs.

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

	<b>Solar Reflectance</b>	<b>Initial 0.72</b>	<b>Weathered Pending</b>
	<b>Thermal Emittance</b>	<b>0.87</b>	<b>Pending</b>
	Rated Product ID	0032	
	Licensed Manufacturer ID	0668	
	Classification	Production Line	
<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>			

### Technical Data

## **Product Application**

FLINTLASTIC FR CAP 30 T 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 torched or mopped-to non-nailable or insulated substrates as specified in the CertainTeed Commercial Roof Systems Specification Manual. Over the base ply, torch one ply of FLINTLASTIC FR CAP 30 T COOLSTAR lapping 3" on sides and 6" on ends with endlaps diagonally staggered not less than 3 feet apart. Sides and endlaps shall be inspected to ensure an approximately 1/8" flow of modified compound has been achieved. Note that torching SBS is very different than torching APP. The key point is to make the backside of the SBS membrane just shiny. At that stage, the SBS modified compound is softened sufficiently to adhere aggressively. If the SBS modified asphalt shows signs of flow, the material has been overheated. 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. Follow all safety recommendations relating to the use and maintenance of liquid propane gas torches and equipment. Refer to the CertainTeed Commercial Roof Systems Manual for additional safety information.

Appropriate surface preparation is essential when making end laps and side laps meet with this product. After determining the appropriate lap width, place a 4"- 6" wide length of scrap membrane parallel to and defining the joint area to be lapped. The scrap piece will ensure that the laps will look clean by protecting the white coating on the remainder of the membrane from heat damage. Using a heat gun or detail torch, gently heat the granulated surface in the lap area. Once the coating begins to melt and bubble, gently scrape off the white coating and the granules underneath, being careful not to damage the internal reinforcement. While scraping will remove some asphaltic coating, aim to remove as little as possible. The result will be a lap area ready to form a watertight joint.

**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.

## **ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:**

**EXTERIOR:** ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE  
**INTERIOR:** INSULATION • GYPSUM • CEILINGS

CertainTeed Corporation  
P.O. Box 860  
Valley Forge, PA 19482

Professional: 800-233-8990  
[www.certainteed.com](http://www.certainteed.com)

**CertainTeed** 