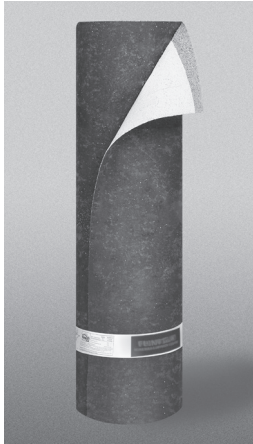


## FLINTLASTIC® FR CAP 30 COOLSTAR® FIRE-RESISTANT, SBS MODIFIED BITUMEN FIBERGLASS CAP SHEET WITH HIGHLY REFLECTIVE MINERAL SURFACE



### Product Information



**Product Use:** Flintlastic® FR Cap 30 Coolstar® is a fire rated, glass mat cap membrane used in two-ply or multi-layer modified bitumen fire rated roofing systems. It is designed for use as a cap membrane over inorganic roofing systems. Flintlastic FR Cap 30 Coolstar is suitable for both new construction and reroofing membranes over a variety of substrates. It is surfaced with highly reflective Coolstar granules to provide a durable, heat reflective weathering surface. Flintlastic FR Cap 30 Coolstar is reinforced with a tough fibrous glass fabric.

**Limitations:** Flintlastic FR Cap 30 Coolstar is intended for hot asphalt application or approved cold adhesive such as FlintBond®. Rolls should be stored upright off the ground and completely protected from the weather. Roof decks must be structurally sound, dry, smooth and meet or exceed minimum requirements of the deck manufacturer, local code and CertainTeed. Additional specifications and precautions are listed in the CertainTeed Commercial Roof Systems Specifications.

**Product Composition and Features:** Flintlastic FR Cap 30 Coolstar is reinforced with a heavy duty fiberglass reinforced mat that receives a heavy coating of fire-retardant modified bitumen compound. Flintlastic FR Cap 30 Coolstar is manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen roofing membrane.

**Roll Dimensions:** 39 $\frac{3}{8}$ " X 32' 10"  
**Nominal Coverage:** One square  
**Approximate Weight:** 88 lbs. per roll  
**Top Surface:** Highly reflective Coolstar granules  
**Back Surface:** Fine sand, release agent

**Applicable Standards:** Meets ASTM D6163, Grade G, Type I. Flintlastic FR Cap 30 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 (FL 2533 and FL 16709) and Texas Department of Insurance (RC-47). Flintlastic FR Cap 30 Coolstar is an approved ENERGY STAR® product. Flintlastic FR Cap 30 Coolstar also is listed by the Cool Roof Rating Council (CRRC). The CRRC product ID is 0668-0081. Initial Solar Reflectance: 0.70; Aged Solar Reflectance: 0.59; Initial Thermal Emittance: 0.90.



### Technical Data

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

**Support Mat:** Heavy duty fiberglass reinforced mat.

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
<b>Solar Reflectance Index (SRI) Initial/Aged:</b>	ASTM E1980	86/69
<b>Softening Point:</b>	ASTM D36	260°F
<b>Tensile Strength:</b>	ASTM D5147	
	@ 73.4°F ±3.6° MD/XD	60/60 lbs./in.
	@ 0°F ±3.6° MD/XD	135/110 lbs./in.
<b>Elongation:</b>	ASTM D5147	
	@ 73.4°F ±3.6° MD/XD	4%/4%
	@ 0°F ±3.6° MD/XD	5%/5%
<b>Dimensional Stability:</b>	ASTM D5147 MD/XD	0.10.1 Max
<b>Low Temperature Flex:</b>	ASTM D5147	Pass @ -15°F
<b>Compound Stability:</b>	ASTM D5147	250°F
<b>Thickness:</b>	ASTM D5147	3.3 mm (130 mils)
<b>Tear Strength:</b>	ASTM D5147	
	@ 73.4°F ±3.6° MD/XD	120/110 lbs.

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



## **Product Application**

Flintlastic FR Cap 30 Coolstar roof systems must be applied in accordance with installation procedures listed in the CertainTeed Commercial Roof Systems Specifications. The following information is intended for general information purposes only and is not all-inclusive.

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

**Installation:** Unless otherwise specified by CertainTeed, a CertainTeed approved base sheet must be installed with 3" side laps and 4" end laps, with end laps diagonally staggered not less than 3' apart. The base sheet must 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 Specifications. Spot mopping, when specified, must be applied in 9" diameter circles, 24" o.c. in all directions. Solid moppings must be applied at the rate of 25 lbs. per 100 square feet. Over the base ply, solid mop one ply of Flintlastic FR Cap 30 Coolstar lapping 3" on sides and 6" on ends, with end laps diagonally staggered not less than 3' apart. Sides and end laps must be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately  $\frac{3}{8}$ " beyond lap edge. Asphalt bleed-out may be touched up with Coolstar granules. Refer to the CertainTeed Commercial Roof Systems Specifications for additional specifications.

**Precautions:** Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply roofing systems over improperly prepared substrates or substrates that contain moisture. Asphalt temperature at point of application must 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 Limited (product only) and No Dollar Limit (NDL, product and workmanship) warranties. Warranty type and duration is dependent on roof system configuration and contractor selection. Only CertainTeed Gold and Silver Star Contractors are eligible to apply for NDL warranties on specific roof projects. For more information, see CertainTeed Commercial Roof Systems Specifications or contact Commercial Roofing Technical Services.

## **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 Commercial Roofing Technical Services at 800-396-8134 x2.

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