

FLEXIGLAS™ PREMIUM CAP SHEET 960 COOLSTAR™

MINERAL SURFACED FIBER GLASS CAP SHEET
WITH REFLECTANT COOLSTAR COATING



Product Information



Product Use: FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR is designed for use as a cap sheet over inorganic and organic built-up roofing systems. It may also be used as a heavy-duty, venting type base sheet when installed mineral side down and either mechanically fastened or spot mopped over lightweight insulating concrete decks or existing smooth surfaced membranes. FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR Roof Systems are suitable for both new construction and reroofing assemblies over a variety of substrates. It is surfaced with white ceramic granules to provide a durable, heat reflective weathering surface when used as a cap sheet.

Limitations: FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR may be applied in either hot asphalt or cold adhesive such as FlintBond™ (when installed in cold process assemblies). Rolls should be stored upright, off ground, completely protected against weather. Roof decks shall be structurally sound, dry, smooth and meet or exceed minimum requirements of the deck manufacturer, local code and CertainTeed. Roof decks shall provide positive drainage. Additional specifications and precautions are contained in the CertainTeed Commercial Roof Systems Manual.

Product Composition and Features: FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR is manufactured on a durable, high quality fiber glass mat which receives a heavy coating of weathering grade rubberized asphalt and surfaced with a flexible, acrylic-based CoolStar coating. The fiber glass base mat provides excellent strength and moisture resistance in conjunction with a reflective, durable granule surface.

- Size:** 36" X 37' 10" (114 sq.ft.)
- 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:** Light Sand Finish

Applicable Standards: FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR is approved by Underwriters Laboratories for use in various Class A, B, and C roof assemblies, by Factory Mutual, Miami-Dade, Florida Building Code Statewide Approval (FL 479), Texas Department of Insurance (RC-47) and Cool Roof Rating Council. Consult www.certainteed.com/lowslopetechinfo for details. Meets ASTM D6163, Grade G, Type I.

Modified Bitumen Coating: Non-oxidized (flux) asphalt, blended with an elastomeric thermoplastic styrene-butadiene-styrene polymer.

Support Mat: Heavy-duty, 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	100/85 lbs./in.
	@ 0 +/- 3.6°F MD/XD	175/155 lbs./in.
Elongation:	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	5%/5%
	@ 0 +/- 3.6°F MD/XD	3%/3%
Dimensional Stability:	ASTM D5147 MD/XD	0.1%/0.1%
Low Temperature Flex:	ASTM D5147	Pass @ -5°F
Compound Stability:	ASTM D5147	250°F
Thickness:	ASTM D5147	4.0mm (160 mils)

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

Technical Data

	Solar Reflectance	Initial 0.75	Weathered Pending
	Thermal Emittance	0.86	Pending
Rated Product ID		0034	
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>			

Suggest Solar Reflective Index (SRI) = 91.7

Product Application

FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR 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 sharp projections and depressions. Flashing shall be in place and roof accessories available prior to application of materials. 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: FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR shall be installed as the finishing cap sheet following application of base ply and interply felts. Cap sheet shall be installed in a continuous manner with underlying felts. Prior to application, FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR shall be unrolled, cut into lengths not to exceed 18' and allowed to flatten. Cap sheets which are "flown" into position shall receive a back mopping of hot asphalt at side and end laps. Apply cap sheet with 2" side laps and 4" end laps, with end laps diagonally staggered not less than 3 feet apart. When used as a venting type base sheet, FLEXIGLAS PREMIUM CAP SHEET 960 COOLSTAR shall be installed mineral surface side down. For nailable substrates, mechanically fasten 9" o.c. at side laps and 18" o.c. staggered in two rows, 12" in from each edge. For non-nailable or insulated substrates, spot mop the deck with asphalt in 9" diameter circles, 24" o.c. in all directions. Install with 2" side laps and 4" end laps, with end laps diagonally staggered not less than 3 feet apart. Asphalt bleed-out may be touched up with CoolStar Touch-Up coating or other white elastomeric coatings.

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.

Maintenance: CertainTeed Commercial Roof Systems do not require any additional maintenance beyond normal yearly 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 techniques for all CertainTeed Commercial 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 • WALLS • CEILINGS

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

Professional: 800-233-8990
www.certainteed.com

CertainTeed 