



# WATERPROOFING

## CCW 190FR

### Description

CCW 190FR is a fire-resistant, premium SBS (Styrene-Butadiene-Styrene) torch-applied protection course or cap sheet. Manufactured with a non-woven polyester mat and fiberglass strands for enhanced dimensional stability, high tear strength and puncture resistance. It is saturated and coated with high quality, asphaltic bitumen and SBS elastomers for a durable, flexible and easily maintainable membrane. Designed for use as a protection course or cap sheet for CCW-500R waterproofing and roofing systems.

### Installation

When used in conjunction with CCW-500R Hot Rubber Waterproofing System, CCW 190FR shall be installed while the CCW-500R surface is tacky.

### Warnings and Hazards

Review the applicable Safety Data Sheet for complete safety information prior to use.

Do not allow waste products (petroleum, grease, oil, solvents, vegetable or mineral oil, animal fats, etc.) or direct steam venting to come in contact with the Carlisle 190FR.

### Packaging

Roll Dimensions: 39 <sup>3</sup>/<sub>8</sub>" x 32' 9" (1m x 10m).

Each roll is approximately 1 square.

### Standards

Meets ASTM D 6164 Type II, Grade G. CCW 190FR SBS is UL Classified with Underwriter's Laboratories (UL), is Factory Mutual (FM) Approved, and listed with Florida Building Code (FBC) FL-8077, and Texas Department of Insurance (TDI) RC-123. CCW 190FR SBS with Ultra White granule is CRRC Rated.

Contact CCW Technical Services for specific/applicable codes.



### Typical Properties

Property	ASTM D6164	Results
Tensile Strength (lbf/in) 0°F (MD/XMD)	70 lbf/in	118/97 lbf/in
Tensile Strength (lbf/in) 73°F (MD/XMD)	70 lbf/in	162/105 lbf/in
Elongation (% @ Max Load) 0°F (MD/XMD)	20%	30/26%
Elongation (% @ Max Load) 73°F (MD/XMD)	35%	55/57%
Elongation (% @ 5% Max Load) 73°F (MD/XMD)	57/68%	38%
Tear Strength (lbf) (MD/XMD) 73°F Min.	55 lbf	116/92 lbf
Low Temperature Flexibility (0°F) Max.	0°F (-18°C)	0°F
Dimensional Stability % Max	1%	< 0.2%
High Temperature Stability (°F)	215°F	250°F (121°C)
Granule Embedment g/m avg loss	1.3	<2 g
Thickness		4.5 mm (177 mils)
Weight		105 lbs/roll 48 kg/m



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### Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.