

COLPHENE®

180 FR GR

COLPHENE® 180 FR GR
PRODUCT # 01227

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

COLPHENE 180 FR GR (fire retardant, granulated) is an SBS-modified bitumen cap ply for use in approved multi-ply waterproofing assemblies. COLPHENE 180 FR GR is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen and is reinforced with tough, dimensionally stable non-woven polyester mat. The topside is surfaced with ceramic coated granules and the underside is surfaced with fine mineral aggregate to facilitate cold adhesive application.

STORAGE

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of COLPHENE 180 FR GR.

APPLICATION

Prior to installation, unroll COLPHENE 180 FR GR onto the surface and allow to relax. Place COLPHENE 180 FR GR in desired position and back roll the product. Apply approved cold adhesive following manufacturer specifications. COLPHENE 180 FR GR is then rolled into the cold adhesive and subsequently rolled with a weighted roller. Refer to the SOPREMA SBS Waterproofing Installation Guide for additional application guidelines.



APPLICATION



COLD ADHESIVE

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft ²)	THICKNESS (mils)	WEIGHT (lb)	ROLLS/ PALLET (pallet weight)
D6164 Type 1, Grade G	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m ²)	157 (4.0 mm)	116 (52.7 kg)	25 (2,950 lb/ 1338 kg)

* Coverage rate as reported assumes installation using side and end lap recommendations.



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TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES	
Reinforcement	Non-woven polyester
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Top surfacing	Ceramic coated granules
Back surfacing	Sanded
Selvage surface	Sanded
Selvage width, in (mm)	3 (76)
End lap, in (mm)	6 (152)

DIMENSIONS & MASS		
PROPERTY		TEST METHOD
Thickness, mils (mm)	157 (4.0)	ASTM D5147
Thickness @ selvage, mils (mm)	130 (3.3)	ASTM D5147
Net mass per unit area, lb/100ft ² (g/m ²)	108 (5276)	ASTM D5147

PHYSICAL PROPERTIES			
PROPERTY	MD	XMD	TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	115 (20.1)	90 (15.8)	ASTM D5147
Elongation at peak load @ 0°F (-18°C), %	35	40	ASTM D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	ASTM D5147
Elongation at peak load @ 73.4°F (23°C), %	55	60	ASTM D5147
Ultimate elongation @ 73.4°F (23°C), %	65	80	ASTM D5147
Tear strength @ 73.4°F (23°C), lbf (N)	125 (556)	85 (378)	ASTM D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	ASTM D5147
Dimensional stability, %	< 0.5	<0.5	ASTM D5147
Compound stability, °F (°C)	240 (116)	240 (116)	ASTM D5147
Hydrostatic head pressure	Pass		ASTM D5385
Water vapor permeance, perms (ng/s•m ² •Pa)	< 0.004 (0.23)		ASTM E96 Procedure B
Puncture resistance, lbf (N)	215 (956)		ASTM E154
Granule embedment, g	< 1.5 avg; 2.0 max for SG		ASTM D5147

* Data is represented by average values, unless noted otherwise.

TESTING & APPROVALS



FLORIDA BUILDING CODE

