

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

COLVENT 180 TG is a partially-adhered, heat welded elastomeric modified bitumen base ply for use in approved multi-ply membrane and flashing assemblies, or as a vapor retarder. COLVENT 180 TG is composed of non-woven polyester reinforcement and a proprietary high quality elastomeric styrene-butadiene-styrene (SBS) polymer-modified bitumen blend. The underside consists of ribbon strips of SBS modified bitumen covered by plastic burn-off film for heat welding to approved substrates. The 3 in side-laps on the top and underside are surfaced with plastic burn-off film for heat welding side-laps watertight. The ribbon strips are arranged in a proprietary pattern to allow vapor pressure to vent between the substrate surface and the unadhered portions of COLVENT 180 TG. The top surface is sanded for a cold adhesive-applied interply or cap sheet. For vapor retarder applications, DUOTACK or hot asphalt may be applied to the top surface to adhere approved insulation. Approved lightweight insulating concrete may also be applied to the top surface of COLVENT 180 TG.

STORAGE & HANDLING

Store rolls on end and maintain rolls in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental exposures. Monitor varying environmental conditions during storage, handling and the application of COLVENT 180 TG.

APPLICATION

Unroll the sheet onto the roof surface and allow to relax prior to installation. Lay out COLVENT 180 TG to butt the ends, do not overlap the ends. The butted ends are sealed watertight using a fully-adhered, 6 in wide sealing strip of SOPRALENE 180 Sanded or other approved base ply. During application, as COLVENT 180 TG is unrolled, apply heat from an approved roof torch high on the roll as necessary to remove the burn-off film and melt the ribbons of bitumen. Ensure the sanded underside is not overheated in order to maintain open vent channels between the adhered bitumen ribbons. Fully-adhere all side-laps watertight. Refer to the SOPREMA SBS Roofing Manual for additional guidelines. The applicator is responsible for ensuring conditions are satisfactory to proceed with the appropriate heat welding methods.



APPLICATION



HEAT-WELDED

QUICK FACTS

ASTM STANDARD	LENGTH (ft)	WIDTH (in)	COVERAGE* (ft ²)	THICKNESS (mils)	WEIGHT (lb)	ROLLS/PALLET (pallet weight)
D6164 Type 1, Grade S	32.8 (10.0 m)	39.4 (1.0 m)	97.9 (9.1 m ²)	118 (3.0 mm)	90 (40.6 kg)	25 (2288 lb/ 1038 kg)

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



SOPREMA®

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TECHNICAL INFORMATION & TESTING

SHEET PROPERTIES	
Reinforcement	Non-woven polyester
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
Top surfacing	Sanded
Back surfacing	Heat activated bitumen strips
Selvage surface	Self-adhesive with release film
Selvage width, in (mm)	3 (76)
End lap, in (mm)	6 (152)

DIMENSIONS & MASS		
PROPERTY		TEST METHOD
Thickness, mils (mm)	118 (3.0)	ASTM D5147
Thickness @ selvage, mils (mm)	118 (3.0) 110 (2.8) minimum	ASTM D5147
Net mass per unit area, lb/100ft ² (g/m ²)	83 (4060)	ASTM D5147
Bottom coating thickness, mils (mm)	≥ 40 (1.0)	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

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

TESTING & APPROVALS



FLORIDA BUILDING CODE

