

SENTINEL P150

TECHNICAL DATA SHEET 200512SCANE

(supersedes 190621SCANE)



WATERPROOFING

APPLICATIONS

ROOFS

DESCRIPTION

SENTINEL P150 is a membrane composed of thermoplastic polyvinyl chloride (PVC) and a non-woven polyester reinforcement. SENTINEL P150 is installed on single-ply roofing systems. It is available in white and grey.

INSTALLATION

MECHANICALLY FASTENED

- SENTINEL P150 is mechanically fastened to the structural deck with screws and 2.4 in plates specially made for membrane fastening.
- On a steel deck, fasteners must be installed on the upper part of the ribs. Install membranes perpendicular to the ribs.
- Preliminary mechanical fasteners need to be installed on insulation boards at a rate of four fasteners per 1.2 × 1.2 m (4 × 4 ft) boards and six fasteners per 1.2 × 2.4 m (4 × 8 ft) boards. More fasteners may be needed depending on the wind uplift test results*.

Install the mechanical fasteners in the 152 mm (6 in) side lap, 51 mm (2 in) from the edge of the sheet to the centre of the fastener. The last 38 mm (1.5 in) of every side and end lap must be sealed using a hot air welder.

*For more details about the required number of mechanical fasteners, consult the Wind Uplift Test Reports according to Canadian standard CSA A123.21 or publications according to FM 4470 (RoofNav Database) including recommendations for corners and perimeters listed in the PLPDS 1-29 from Factory Mutual.

ADHESIVE

SENTINEL P150 is fully bonded with SENTINEL S BONDING ADHESIVE making sure to leave 38 mm (1.5 in) without adhesive along every side and end lap so they can be properly sealed using a hot air welder.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

SOLAR RATING as per Cool Roof Rating Council (CRRC)

MEMBRANE COLOUR	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	Initial	3 years	Initial	3 years	Initial	3 years
White	0.85	0.73	0.89	0.88	108	90
Grey	0.46	0.38	0.89	0.89	53	42

(All values are nominal)



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NOTE: All products manufactured by SOPREMA, Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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PACKAGING

Specifications	SENTINEL P150		
Thickness	1.5 mm (60 mils)		
Reinforcement	Non-woven polyester		
Underface	Bare-backed		
Available width	152 mm (6 in)*	1.5 m (5 ft)	3 m (10 ft)
Length	30.5 m (100 ft)		
Coverage	4.65 m ² (50 ft ²)	46.5 m ² (500 ft ²)	92.9 m ² (1,000 ft ²)
Weight	7.75 kg (17.1 lb)	77.5 kg (171 lb)	154.7 kg (341 lb)
Qty/pal	20	10	

*Available in white only.
(All values are nominal)

PROPERTIES

Properties	Standards	SENTINEL P150
Thickness over scrim	ASTM D4434	0.76 mm (30 mils)
Breaking strength, MD/XD	ASTM D751	75/53 kN/m (430/305 lbf/in)
Elongation at break	ASTM D751	25%
Seam strength (min. 75% of breaking strength)	ASTM D751	Pass
Tearing strength, MD/XD	ASTM D751	667/356 N (150/80 lbf)
Low temperature bend at -40 °C (-40 °F)	ASTM D2136	Pass
Linear dimensional change	ASTM D1204	< 0.1%
Change in weight after immersion in water	ASTM D570	< 3
Static puncture resistance at ≥ 15 kg (33 lbf) min.	ASTM D5602	Pass
Dynamic puncture resistance at 10 J (min.)	ASTM D5635	Pass

(All values are nominal)

STORAGE AND HANDLING

SENTINEL P150 rolls must be stored lengthwise on a pallet in a clean and dry location, covered with tarps.



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