



VEGETATIVE SOLUTION  
ACCESSORY PRODUCT

APPLICATIONS

ROOFS

# SOPRANATURE

## POLYETHYLENE 20 & 30 mil

TECHNICAL DATA SHEET 180504SCANF

(supersedes -170327CANE)

### DESCRIPTION

POLYETHYLENE 20 & 30 mil complete the protection against roots on SOPRANATURE green roofs and roof gardens.

Directly installed under SOPRADRAIN drainage board in a conventional roofing assembly and under the insulation boards in an inverted assembly. POLYETHYLENE 20 & 30 mil are used as a complementary root barrier in situations where woody plants are installed.

### INSTALLATION

Unroll directly on the waterproofing membranes in order to have minimum 100 mm (4 in) overlap.

POLYETHYLENE 20 mil; tape longitudinal and transversal joints with the POLYETHYLENE TAPE.

POLYETHYLENE 30 mil; heat-weld the joints with an electric hot-air welder, set at 220 °C (428 °F) with a 38 mm (1½") flat tip.

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

### PACKAGING

Specifications	POLYETHYLENE 20 mil	POLYETHYLENE 30 mil
Dimensions of the rolls*	3.66 x 45.7 m (12 x 150 ft)	3.66 x 45.7 m (12 x 150 ft)
Thickness	0.50 mm (20 mil)	0.76 mm (30 mil)
Roll weight	50 kg (110 lb)	55 kg (121 lb)

\*Other thicknesses available upon request.  
(All values are nominal)

### PROPERTIES

Properties	Standards	POLYETHYLENE 20 mil	POLYETHYLENE 30 mil
Grab Strength, MD/XD	ASTM D775-00	1350/1440 N (303/324 lbf)	2435/2375 N (547/534 lbf)
Tongue Tear, MD/XD	ASTM D775-00	315/360 N (71/81 lbf)	355/440 N (80/99 lbf)
Trapezoidal Tear, MD/XD	ASTM D775-00	230/250 N (52/56 lbf)	380/425 N (85/96 lbf)
Puncture Resistance	ASTM D4833	715 N (161 lbf)	1245 N (280 lbf)
Low Temperature Flexibility	ASTM D2136	Pass @ -30°C (-22 °F)	Pass @ -30°C (-22 °F)
Dimensional Stability, MD/XD	ASTM D1204	-2.8 / -1.9 %	-1.7 / -1.5 %
Root penetration	ANSI/GRHC/SPRI VR-1	Pass	Pass

(All values are nominal)



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