



UNILAY 180

UNILAY 180 (56B)

Order No. 02146

DESCRIPTION & APPLICATION

UNILAY 180 is a mechanically fastened single ply field cap membranes composed of selected SBS modified bitumen applied onto a non-woven polyester reinforcement with sand on the underside and granules on the topside. Unilay 180 is a "FR" (fire retardant) cap sheet.

Depending upon wind requirements, either Soprafix (X), Soprafix, Soprafix-e or Soprafix-e FR is used as the platform or field base membrane ply at all roof perimeters, curbs and penetrations. The membrane side laps are mechanically fastened as noted below. See Approved Details. Next, the UNILAY 180 membrane is heat welded onto the platform membrane to form a two-ply SBS membrane roof assembly in those designated areas.

In the field of the roof, UNILAY 180 membrane is fastened only in the five (5") inch (127 mm) wide side lap using Soprema supplied or Approved fasteners, Stress Plates or Soprafix MBB (Metal Batten Bar) or Soprafix PBB (Polymer Batten Bar) Battens. Next the side laps are self-adhered watertight on the UNILAY 180 membrane. Vigorous hand or motorized roller pressure is applied to the self-adhered seam area to insure watertight integrity. End laps and "T" Joints are sealed using either heat welding or hot air welding techniques.

Correct placement of the Soprafix Stress Plate or Soprafix Batten Bar is important in order for the UNILAY 180 Mechanically Fastened System to be effective. It is the installer's responsibility to know the Soprafix Platform membrane being installed, which Soprafix fastening components are required, where and how often these parts are placed within the System. Unless otherwise noted in the SOPRAFIX/UNILAY Approved Details, the installer must center the required Soprafix Stress Plate or Batten Bar down the longitudinal middle of the mechanically fastened side lap seam of the UNILAY 180 membrane and the specified Soprafix platform membrane ply. Next, the Soprema #15 or #14 fasteners (or other approved) are installed into the Soprafix Stress Plate or Batten Bar according to the applicable Fastening Pattern(s).

The Soprafix and Soprafix 180 platform membrane seam areas are sealed watertight by means of heat or hot air welding or self-adhered adhesive side lap Application Methods respectively. When either heat or hot air welding is used, a weighted roller is applied to the seam area to insure watertight integrity. Vigorous hand or motorized roller pressure is applied to the self-adhered seam area to insure watertight integrity. End laps and "T" Joints are sealed using either heat welding or hot air welding techniques.

See published Specifications and Approved Details.

APPROVALS

See Underwriters Laboratories Inc. File #R11436, FM Approvals, ICC/ES, Miami-Dade County or Florida Building Code Product Approval Listings for current Approved Roof Assembly combinations. Soprema is ISO-9001:2000 Certified.

WARRANTY

Contact your local SOPREMA representative for project warranty offerings.



COMPOSITION & PACKAGING

Product/ Property	UNILAY 180
Reinforcement	polyester
Elastomeric Bitumen	selected blend of bitumen and SBS thermoplastic polymers
Topside	colored granules
Underside	sanded
Approximate Nominal Thickness	160 mils (4.0 mm)
Approximate Roll Coverage	92 ft ² (8.5 m ²)
Side Lap	5" (127 mm)
End Lap	6" (152 mm)
Roll Length	33 ft (10 m)
Roll Width	39" (1 m)
Approximate Roll Weight	107 lbs (48 kg)
Rolls per Pallet*	25

* Rolls stocked upright on pallets

PHYSICAL PROPERTIES

Physical Property per ASTM D 6164, Type I, Grade G	MD	XD
Tensile - Max Load at 0 ± 3.6°F lbf/in	151	103
Elongation at 0 ± 3.6°F %	26	33
Tensile - Max Load at 73.4 ± 3.6°F lbf/in	97	66
Elongation at 73.4 ± 3.6°F %	42	41
Tear Strength at 73.4 ± 3.6°F lbf	120	87
Low Temperature Flex °F max	-4	-4
Dimensional Stability % max	<0.5	<0.5
Compound Stability Temp F	230	230
Granule Embedment g/max	0.8	0.8

Minimum values before and after Heat Conditioning
Test results for manufacturing plant in Wadsworth, OH

GENERAL

SOPREMA is a Certified ISO 9001:2000 worldwide producer of bituminous membranes with factories in Europe and North America. Waterproofing sheets have been produced by SOPREMA since 1908. Today, through a special mixture of components, SOPREMA membranes redefine the qualities indispensable to a high performance roof membrane: elasticity, flexibility, heat & fatigue resistance.