

Armourplan SM180

Product Details

Thickness	1.8mm
Widths	1.50m
Length	20m
Colour	Mid Grey (nearest RAL 7046) Slate Grey (nearest RAL 7015)
Material	PVC-P
Reinforcement	Woven Polyester Scrim
Product Code	42015018 – Mid Grey 43015018 – Slate Grey



Introduction

- Armourplan SM is a polyester scrim reinforced membrane for mechanically fastened roofing systems on both flat and sloping roofs
- It is suitable for both new build and refurbishment installations.
- The membrane is mechanically fastened in the overlap using IKOfix Stress Plates and IKOfix Screws into the deck. Overlaps are hot air welded.
- Armourplan SM can also be used for ballasted systems or alternatively in adhered systems bonded using Armourplan contact adhesive or Sprayfast PCA adhesive.
- Armourplan SM is also used as the upstand detailing membrane on all Armourplan SM/SG systems.

Features & Benefits

- Good UV resistance and durability
- Good mechanical properties and product performance
- Efficient and safe installation
- Secure seam welding quality
- Aesthetically pleasing finish
- Complete range of fixings and accessories available

System Components

To complete the installation of Armourplan SM, the system includes a wide range of accessories, including detailing and walkway membrane, cover strips, preformed corners and outlets, standing seam profile, pre-coated metal sheet for forming edge details, IKOfix fastening systems and termination bars, insulation and vapour control layers, adhesives, cleaners, sealants and rooflights.

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Typical Properties

Characteristic properties	Unit	Method	IKO Armourplan SM 180
Thickness +10%/- 5%	mm	EN 1849-2	1.80
Length +1%/- 0.5%	m	EN 1848-2	20.00
Width +1%/- 0.5%	m	EN 1848-2	1.5
Weight +10%/- 5%	g/m ²	EN 1849-2	2400
Tensile strength (MD/TD) +/- 20%	N/50 mm	EN 12311-2	1250
Elongation at break +/- 20%	%	EN 12311-2	25
Tear resistance	N	EN 12310-2	> 150
Peel strength of joints	N/50 mm	EN 12316-2	>200
Shear strength of joints	N	EN 12317-2	>1000
Hail resistance	m/s	EN 13583	30
Nail Tear	N	EN 12310-1	550
Impact Resistance	KPa	EN 12691	10
Static Load	Kg	EN 12730	20
Dimensional stability 6 hrs at 80°C	%	EN 1107-2	≤ 0.5
Flexibility at low temperatures	°C	EN 495-5	-30
External exposure to fire		BS EN 476-3	Ext F.AB
		EN 13501	T1 – Pass, T2 – Pass, T3 – Pass, T4 – Pass
Water tightness		EN 1928 method B	Pass
Root Resistance			NPD
Minimum Overlap (Adhered/Ballasted)	mm		60
Minimum Overlap (Mechanically Fastened)	mm		110
Minimum welding width (Automatic)	mm		>30
Minimum welding width (Hand Welder)	mm		>60
Welding temperature	°C		385 - 450
Recommended welding speed (Automatic Welder)	m/min		1.8
EC Declaration of conformity with standard			CE Marked

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