

Spectraplan SM120

Product Data Sheet
June 2010

1.2mm Mechanically Fixed TPE Single-Ply Membrane

Introduction

Spectraplan SM120 is a 1.2mm thick, polyester scrim reinforced Thermoplastic Elastomeric (TPE) membrane for mechanically fixed applications onto both flat and sloping roofs. The membrane can be installed over most substructures, including profiled steel and timber and is suitable for both new build and refurbishment installations.

Spectraplan SM120 is fixed to the deck using the appropriate IKOfix mechanical fastenings and all overlaps are heat welded using suitable hot air welding equipment. The same TPE compound is used on the both upper and lower side, and fully encapsulates the polyester reinforcement ensuring optimum weld quality and excellent mechanical properties. Spectraplan may only be installed by trained operatives, and each project is monitored during installation and inspected on completion.

Features and Benefits

- BBA Certified, no. 05/4203
- High resistance to ageing and UV exposure, ensures a long life expectancy
- Exceptional mechanical properties
- Elasticity of TPE, accommodates substructure movement
- Reliable and secure seam welding
- Membrane overlaps can be sealed at a broad range of welding temperatures
- Excellent chemical resistance
- Compatible with existing bitumen membranes, without the need for a separation layer
- IKOfix fastenings ensure high resistance to wind uplift
- Membrane can easily be cleaned and repaired

Product Details

Roll Dimensions

	Thickness	Roll Width Options	Length	Colour
Spectraplan SM120	1.2mm	1.025m / 2.05m	20m	Light Grey (RAL 7035) or Dark Grey (RAL 7011)

Material Composition

Element	Material
Material	TPE
Reinforcement	Polyester knitted fabric

Typical Properties

Property	Test Method	Unit	Result
Weight	EN 1849-2	g/m ²	1300
Tensile strength	EN 12311-2	N/50mm	MD >1439
			TD >1286
Elongation at break	EN 12311-2	%	MD >592
			TD >565
Tear strength	EN 12310-2	N	MD >194
			TD >174
Dimensional stability 6hrs at 80°C	EN 1107-2	%	MD <0.5
			TD <0.5
Fire Rating	BS476-3 1958	Achieves up to EXT. F AA	

Notes: MD – Machine Direction TD – Transverse Direction

Certification

BBA Agrément Certificate No. 05/4203
Euro Agrément Procedure No. 007/04/E
UBAtc ATG 04/2603)
Czech Republic Protokol C 010_011555
Slovakia Co-operating Institute Certifikat 2601A/04/0520/1/c/c04

System Components

To complete the installation of Spectraplan SM120, 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.

Other Product Information

Full product literature is available to download from our website: www.singleply.co.uk. Amourplan is only available from SIG Design & Technology and can only be installed by an IKO Single Ply trained and licensed contractors.



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