

Technical Data Sheet

3.5MM PROTECTION FLEECE

Roof Finishes

The 3.5mm Protection Fleece provides a protective layer in warm roof applications between single-layer waterproofing systems and biosolar and living roof finishes

Axter's 3.5mm Protection Fleece is a thick needle punched non-woven geotextile manufactured from 100% virgin polypropylene high tenancy fibres containing 1% active carbon black. Manufactured from a unique blend of high tenancy fibres providing class leading durability. Optimised to maximise strength, performance and UV stability.

3.5mm Protection Fleece is designed to be installed in biosolar and green roof systems, directly above single and multi-layer waterproofing membranes and below the drainage layer. It is not required for ballast roof finishes or under paving support stools.

Important note: Additionally, inverted roof systems and blue roof systems have different protection membranes and so, also, do not require PF01.

Certification

- BS EN ISO 9001



Product characteristics

Characteristic	Unit	Product value
Product reference code		PF01
Weight per roll	kg	14
Thickness	mm	3.5
Length	m	50
Width	m	1

Technical Properties

Characteristics	Unit	Product value	Test standard
Static puncture (CBR)	kN	2.5	EN ISO 12236
Push through displacement	mm	65	EN ISO 12236
Tensile strength (MD/CMD)	kN/m	15	EN ISO 10319
Tensile elongation (MD/CMD)	%	80	EN ISO 10319
Cone drop	mm	10	EN ISO 13433

Filter properties	Unit	Product value	Test standard
Apparent opening size	µm	150	EN ISO 12956
Water permeability	(l/m ² ·s)	100	EN ISO 11058
Coefficient of permeability	(m/s 10 ⁻³)	7	EN ISO 11058

Durability	Product value	Test standard
Weathering 50 MJ/m ² (1 month)	>90% retained strength	EN ISO 12224
Microbiological resistance	No loss in strength	EN ISO 12225
Resistance to acids & alkalis	No loss in strength	EN ISO 14030
Oxidation at 112 days (110 years)	>90% retained strength	EN ISO 13438

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