

Technical Data Sheet

ECOFLEX 1.5 FM Synthetic Membrane

1. Description	Ecoflex 1.5 FM is a lightweight, flexible PVC-p single ply synthetic membrane with polyester mesh reinforcement. It is available in dark grey (RAL 7043).
2. Use	Mechanically fixed roof waterproofing system on flat or pitched roofs with limited access, suitable for new build or refurbishment projects.
3. Properties	<p>Ecoflex systems provide excellent mechanical properties and resistance to wind stress, puncturing, hot/cold cycles, weathering and UV rays. However, the membrane is not resistant to bitumen.</p> <p>It is easily welded by hot air and has excellent flexibility at low temperatures. Ecoflex PVC roof waterproofing membranes are manufactured to ISO 9001 and ISO 14001.</p>
4. Application method	By mechanically fixed technique using Axter mechanical (MTP or C) membrane fixings and washers, or fully bonded with Axter FM/D Contact Adhesive. Installation of Ecoflex 1.5 FM waterproofing system must be carried out by Axter accredited skilled operatives. The roof deck must be smooth, clean and free of sharp edges or foreign substances. All Ecoflex membranes should not be installed in wet weather conditions. When installing over an uneven surface or to eliminate direct contact between the Ecoflex FM membrane and oil based products, such as bitumen membranes, a suitable separation layer should be installed (ECO 200 PY Separation Layer). Side and end laps are sealed by the hot air welding technique. Hot air welding techniques can be adapted to suit the specific climatic conditions at the time of installation to ensure a secure weld is achieved at all times. Full installation guide available from Axter Ltd.
5. Storage	Rolls to be stored horizontally and parallel (never crossed) in original packaging in a dry, cool place.

Characteristics		Standard (BS)	Units	Values
Dimensions	Length	BS EN 1848-2	m	≥20
	Width	BS EN 1848-2	m	≥1.05 or ≥2.10
	Thickness	BS EN 1849-2	mm	1.50
	Mass per unit area	BS EN 1849-2	kg/m ²	1.80
Maximum tensile force (L X T)		BS EN 12311-2	N/50mm	≥1100
Elongation at maximum tensile force (L / T)		BS EN 12311-2	%	≥15
Static puncture resistance		BS EN 12730-B	kg	≥20
Impact resistance (hard substrate)		BS EN 12691-A	mm	≥800
Tear resistance (L / T)		BS EN 12310-2	N	≥200
Foldability at low temperatures		BS EN 495-5	°C	≤-25
Dimensional stability		BS EN 1107-2	%	≤0.5
Resistance to artificial weathering		BS EN 1297	-	Grade 0
Root resistance		BS EN 13948	-	Conform
Watertightness		BS EN 1928	-	Pass
Reaction to fire		BS EN ISO 11925-2/ EN 13501-1	Class	E
Water vapour diffusion resistance coefficient (μ)		EN 1931	20000	±30%
SRI (Solar Reflectance Index)		ASTM E 1980-11	93 (RAL 9016)	

For information on safety, please consult the Safety Data Sheet (SDS) for this product. Contact Axter Ltd for further information.

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