

Technical Data Sheet

ECOFLEX 1.5 FM Synthetic Membrane

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).
Use	Mechanically fixed roof waterproofing system on flat or pitched roofs with limited access, suitable for new build or refurbishment projects.
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>
Application method	<p>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.</p>
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
Tensile strength		BS EN 12311-2	N/50mm	≥1100
Elongation to break		BS EN 12311-2	%	≥15
Static puncture resistance		BS EN 12730	kg	≥20
Impact resistance (hard substrate)		BS EN 12691	mm	≥ 800
Tear resistance		BS EN 12310-2	N	≥ 200
Foldability at low temperatures		BS EN 495-5	°C	≤ - 25
Dimensional stability after 6 hours at 80°C		BS EN 1107-2	%	≤0.5
Resistance to artificial weathering		BS EN 1297	Visual (1000 h)	Pass
Root resistance		BS EN 13948	-	No penetration
Hydrostatic pressure resistance (6 hours at 0.5Mpa)		BS EN 1928(B)	-	Waterproof
Fire behaviour		BS EN 13501-5	Class	B _{Roof} T1
Fire resistance		BS EN ISO 11925-2/ EN 13501-1	Class	E

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

The manufacturer reserves the right to modify, without prior warning, the characteristics of this product. Axter accepts no responsibility for irregularities caused by incorrect use of the product. Values reflected in this document correspond to average values obtained from tests carried out in laboratory conditions.