

Technical Data Sheet

ECOFLEX 1.5 ADH Synthetic Membrane

Description	ECOFLEX 1.5 ADH is a lightweight, flexible PVC-p single-ply synthetic membrane with polyester mesh reinforcement and non-woven polyester fleece backing of 300g/m ² . It is available in dark grey (RAL 7043).
Use	Roof waterproofing, suitable for new build or refurbishment projects, in fully-adhered exposed, loose-laid and ballasted, inverted, roof garden and living roof specifications.
Properties	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. 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.
Application method	<p>ECOFLEX 1.5 ADH is fully bonded with Axter ADH membrane adhesive.</p> <p>Installation must be carried out by Axter accredited skilled operatives.</p> <p>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 or in temperatures below 5°C. When installing over an uneven surface or to eliminate direct contact between the ECOFLEX ADH membrane and oil based products, such as bitumen membranes, a suitable separation layer should be installed (ECO/200 PY Separation Layer). The ECOFLEX ADH membrane is fully adhered to the substrate with Axter ADH adhesive or is loose laid. 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.</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	15
	Width	BS EN 1848-2	m	2.1
	Thickness	BS EN 1849-2	mm	1.50
	Mass per unit area	BS EN 1849-2	kg/m ²	2.25
Tensile Strength		BS EN 12311-2	N/50mm	≥750
Maximum Tensile Force		BS EN 12311-2	N/50mm	≥1000
Elongation to break (L X T)		BS EN 12311-2	%	≥200
Elongation at Maximum Tensile Force =		BS EN 12311-2	%	≥40
Static puncture resistance		BS EN 12730	kg	≥20
Tear resistance		BS EN 12310-2	N	≥250
Impact resistance (on a rigid support)		BS EN 12691	mm	≥ 800
Cold bending		BS EN 495-5	°C	≤ - 25
Dimensional stability after 6 hours at 80°C		BS EN 1107-2	%	≤2.0
Resistance to artificial weathering		BS EN 1297	UV	No surface cracking
Hydrostatic pressure resistance (6 hours at 0.5Mpa)		EN1928 (B)	-	Waterproof
Resistance to roots penetration		EN13948	-	No penetration
Fire behaviour		EN13501-5	Class	F roof
Fire resistance		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.