

Product Datasheet

Aluply PVC Reinforced Membrane

Sheet No: PDS-AP003
 Issued: Dec 2025
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Description

Aluply PVC Reinforced Membrane provides a solution for mechanically fastened applications comprising a multi-layered thermoplastic 1.5mm PVC-P roofing membrane reinforced with woven polyester. Ideal for lightweight fast-track construction the system is fully adaptable to meet the individual requirements of every project for use across all building sectors in both new-build and refurbishment roofing projects.

Use

Waterproofing membrane intended for application within mechanically fixed roofing systems. The Aluply Reinforced Membrane may additionally be used to adhere waterproofing details to approved substrates when installed with the specified Alumasc contact adhesive.

Colour

RAL 7016 – Anthracite Grey

Colour is always produced to provide maximum consistency, however sometimes batch/shading differences may occur.

Application

- All surfaces to receive the membrane must be clean and dry.
- Ensure that the membrane is accurately located, including overlaps.
- The Aluply membrane is rolled out, free of tension, on top of the insulation or separation layer at 90° to the deck direction. Where the substrate is not metal deck (concrete, OSB, plywood or timber) the direction of the membrane is not critical.
- Mechanical fasteners (screws and plates) are installed through the membrane and insulation into the crowns of the deck.
- The adjoining sheet is aligned to the first one with an overlap of 120mm minimum.
- The quantity of fasteners is calculated to resist wind uplift in the central and perimeter roof area in accordance with current guidelines (calculation according to UK standards BS 6399-2).
- A minimum distance of 150mm between fasteners must be observed at all times, which may require the use of a narrower membrane to obtain the correct quantity of fasteners per m², with a minimum of 2/m².
- A test weld must be carried out prior to welding the roofing sheet, to confirm adequate weld strength and performance. The Aluply membrane is welded by hot air and extend a minimum of 30mm from the membrane edge.

End laps must be staggered by 250mm, thus preventing a situation where 4 roll ends coincide. Where 3 membranes overlap, the centre sheet must be chamfered.

After completion of the welding, weld security is verified by drawing a metal probe along the joint in a firm but non-destructive way.

Product Data

	Standard	Unit	Value	Tolerance
Roll Length	EN 1849-2	Lm	20m	
Roll Width	EN 1849-2	Lm	200mm, 1.05m & 2.10m	
Material	Flexible PVC-P			
Membrane Thickness	EN 1849-2	mm	1.5	±5%
Mass	EN 1849-2	Kg/M ²	1.80	
Tensile Strength	EN 12311-2	N/50 mm	≥ 950	
Elongation	EN 12311-2	%	≥ 15	
Tear Resistance (L/T)	EN 12311-2	N	≥ 180	
Resistance to Impact	EN 12691-A	mm	≥ 600	
Cold Bend	EN 495-5	°C	≥ -25	
Peel Resistance of Joint	EN 12316-2	N/50mm	≥ 200	
Shear Resistance of Joint	EN 12316-2	N/50mm	≥ 600	
Resistance to Root Penetration	EN 13948		Pass	
Resistance to Static Loading	EN 12730-B	Kg	≥ 20	
Water Vapour Resistance	EN 1931		20000	± 30%

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Fire Performance

External Fire Performance: BROOF(t4) classification in accordance with EN 13501-5. Please refer to the Alumasc certification to confirm the full range of approved insulation types, attachment methods, and substrates covered.

Reaction to Fire: Class F in accordance with EN 13501-1.

Storage

Store dry. Rolls to be parallel and in original packing where possible, do not stack in cross form or under pressure.

Health & Safety

Safety Data Sheets are available upon request and can also be downloaded directly from www.alumascroofing.com.

Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: technical@alumascroofing.com

The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice. The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.

