

## 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 across new-build and refurbishment projects.

## Use

Waterproofing membrane intended for application within mechanically fixed roofing systems. Also suitable for the adhesion of waterproofing details to approved substrates when installed in conjunction 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 m<sup>2</sup>, with a minimum of 2/m<sup>2</sup>.
- 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 <sup>2</sup> | 1.80                 |           |
| Tensile Strength                              | EN 12311-2     | N/50mm            | ≥ 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 diffusion resistance coefficient | EN 1931        | μ                 | 20000                | ± 30%     |

## 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

This product is classified as an article and is not subject to Safety Data Sheet (SDS) requirements.