

# Alderprufe Membrane 15K

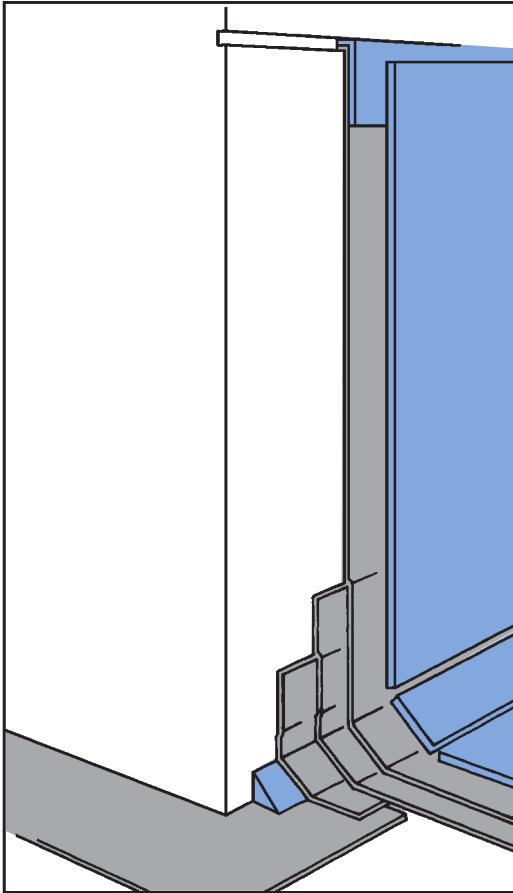
Factory controlled  
1.5mm thickness

Easy application

High impact resistant carrier

Traditional construction

Economical



## Description

Alderprufe 15K waterproofing membrane consists of a self bonding polymer modified bitumen which is covered on one side by a tough two ply cross laminated high density polythene film and protected on the other side by a release sheet which is removed prior to the bonding of the material on to a suitably primed substrate. Once the release sheet has been removed the membrane can be easily applied by roller pressure.

## Uses

Alderprufe 15K is intended for use as a self bonding vertical or horizontal damp proof membrane in tanking ground structures subways and retaining walls.

## Technical Data

<b>Backing Thickness</b>	0.10mm
<b>Backing Type</b>	HDPE
<b>Adhesive Thickness</b>	1.40mm
<b>Total Thickness</b>	1.50mm
<b>Width</b>	1000mm
<b>Length</b>	15mts
<b>Weight</b>	1.7kg/m <sup>2</sup>
<b>Carton Size</b>	260x260x1080mm
<b>Carton Weight</b>	27kg

### Mechanical Properties

<b>Membrane Strength</b>	BS 2782 Method 56N/cm
	320
<b>Elongation</b>	BS2782 Method 200%
	320
<b>Puncture Resistance</b>	ASTM E154 300N
<b>Adhesion (1800 Peel)</b>	ASTM D1000 40N/cm

### Functional Data

<b>Water Vapour Permeability</b>	BS 3177 g/m <sup>2</sup> /24h	0.23
<b>Vapour Resistance</b>	MN/s/g	892
<b>Water Penetration</b>	MOAT 5.1.4	Nil
<b>% Joint Dimensional Stability</b>	MOAT %	5.1.6(70°C)
<b>Longitudinal</b>		-0.1
<b>Lateral</b>		-0.2

## Surface Preparation

All surfaces should be smooth, clean and dry. Loosely adhering material and sharp protrusions should be removed by mechanical means.

## Priming

All vertical surfaces should be primed using Membrane Primer. Priming should be carried out as follows:

- (i) Roll can well before use.
- (ii) apply at the rate of approximately 7m<sup>2</sup>/L. Allow to dry for at least 1 hour until touch dry. Keep free from dust.
- (iii) On very porous surfaces, use two coats of primer.

## Application

**Internal** angles must always be provided with an Alderprufe fillet then after priming as previously described a 300mm wide reinforced strip of Alderprufe 15K must be applied with 150mm on either side of the centre of the fillet.

# Alderprufe Membrane 15K

**External** angles or corners must be provided with a 25mm x 25mm splay and this covered with a 300mm wide strip of Alderprufe applied equidistant from the centre of the splay.

The first strip should be laid such that the selvedge is placed to accept the edge of the following strip, with each subsequent strip laid in the same way. The protection paper should be removed from the selvedge before bonding the overlap joint.

**Horizontal membrane** should preferably be laid prior to the application of the vertical membrane, adequately protected from damage by a minimum 25mm screed, with the membrane bonded to the vertical surface at least 200mm above the top of the screed so that the vertical Alderprufe can be overlaid.

If it is not possible to apply the screed over the DPM before the application of the vertical membrane, full and adequate protection must be given to the horizontal membrane to prevent damage.

**Vertical membrane** - cut off the appropriate length of membrane, then starting at the top of the area to be waterproofed, peel off at least 200mm of release sheet and bond the Alderprufe firmly to the surface, tucking the end of the material into the appropriate DPC or chase. Gradually peel off the remainder of the release sheet downwards, at the same time rolling the material against the surface until the bottom of the wall is reached. At the base, the vertical membrane must overlap the horizontal membrane by at least 100mm.

All subsequent sheets must overlap the preceding sheet by 50mm at the edges onto the selvedge strip and by 100mm at ends. Overlaps must be thoroughly rolled to ensure adequate bonding.

**Backfilling** on vertical applications where an abrasive backfill is to be used the Alderprufe membrane should be protected by a concrete outer skin, brick skin or Backerboard HD protection board, the latter being held in place by multi-stik adhesive tape.

## Precautions

Alderprufe 15K and membrane Tac Primer must not be applied when surface temperature of the substrate falls below 5°C.



When a brick-skin is applied to the face of the vertical Alderprufe 15K, care must be taken not to damage the membrane and a gap of 12mm should be left which is filled with sand/cement mortar as work proceeds.

Only sufficient Alderprufe 15K should be laid which can be protected as work proceeds.

When areas of Alderprufe 15K are left exposed for any length of time ensure that all edges are held in place by battens.

## Alderprufe 15K

Alderprufe 15K employs a unique feature of a selvedge. This consists of a 50mm wide strip of a high performance bitumen polymer adhesive on one side of the membrane. This is protected by a release coated plastic which is removed immediately prior to application of the overlapping sheet.

The selvedge provides a clear indicator of the minimum overlap that must be achieved to ensure effective sealing of the joints and ensures by virtue of the adhesive to adhesive contact a very high performance seal.

## Specification

Waterproofing membrane shall be Alderprufe 15K. Fixed strictly in accordance with manufacturers instructions as supplied. Alderburgh Ltd., Sladen Mill, Halifax Rd., Littleborough. 01706 374416.