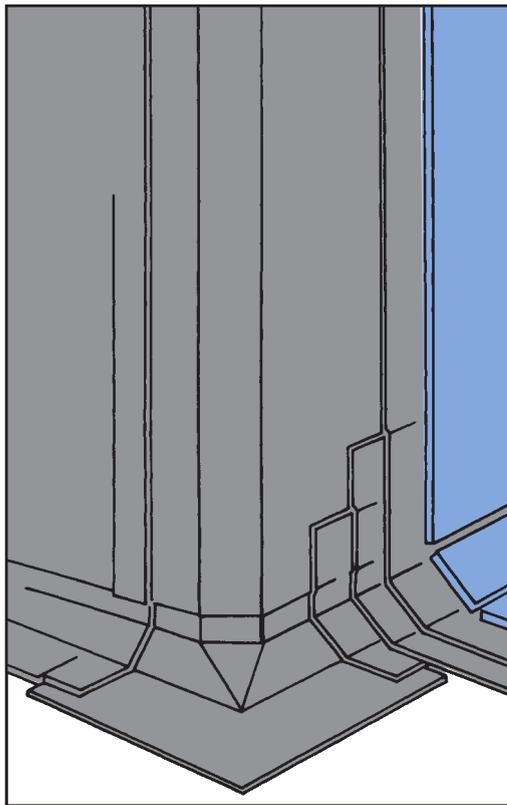


Alderprufe Membrane 20K

- 2mm thick**
- Easy application**
- High elasticity**
- Factory controlled thickness**
- 5 ply sandwich construction**
- Weldable laps for greater security**
- Totally integrated waterproof system**



Description

Alderprufe Membrane 20K Self Adhesive consists of a central polyethylene core coated on both sides with 1.0mm of self adhesive elastomer bitumen compound. The upper bitumen surface is protected by a thin polyethylene film, the lower bitumen surface is protected by a water resistant siliconised release sheet

Uses

Alderprufe Membrane 20K is recommended for use as a self adhesive waterproofing membrane for both vertical and horizontal work in tanking applications. Also for use as a waterproofing membrane on concrete decks, including roof garden systems.

Technical Details

Bitumen thickness	2.00mm
Polyethylene core thickness	0.09mm
Elongation at break	in excess of 600%
Roll width	1000mm
Roll length	15m
Roll weight	33kg
Overlap	100mm

MECHANICAL PROPERTIES

Tensile strength of joints tested to MOAT 27.

Unaged membrane	110
Heat aged	85
Water soak	100mm

Water vapour transmission rate and transmission resistance at 75% Rh and 25°C are as follows:

W.V. Transmission rate	0.30 (GM ² d ⁻¹)
W.V. Resistance	684 (MNsg ¹)
Puncture resistance	122

(Max load INJ)

Tested to ASTM E154

Durability: At least the life of the building in which is installed.

Storage

Alderprufe Membrane 20K must be stored in dry conditions under cover at a minimum temperature of 5°C and a maximum temperature of 30°C. Rolls must be stored on their sides, stacked no more than 5 high.

Surface Preparation

All surfaces should be smooth, clean and dry. Loosely adhering material or sharp protrusions should be removed by mechanical means. Vertical brickwork must be skimmed with sand/cement to provide an even surface. Concrete and render should be completely cured and dry.

Priming

All areas must be primed with Alderprufe Self Adhesive Tac Primer as below:

(i) Roll container well before use.

(ii) Apply at the rate of approximately 4-6 sq m per litre. Only apply to those areas to be covered with Alderprufe membrane within the next 4 hours. Allow to dry completely for a minimum of 1 hour. Keep free from dust.

(iii) On very porous surfaces use two coats.

Alderprufe Membrane 20K

Application

OVERLAPS

All overlaps must be 100mm. All angles and corners should be provided with a suitable fillet or splay and reinforced with a 300mm wide strip of Alderprufe Membrane equidistant across the previously primed area. When angles have been reinforced as above, the membrane should be applied as follows:

Horizontal application

Starting at the lowest point, unroll the first roll of membrane, one operator progressively removing the release sheet whilst another presses the membrane onto the surface with a broom, ensuring that no air is trapped between the membrane and the substrate. Before laying the next roll, lightly torch the upper polythene of the first sheet using a propane gas torch to expose the upper bitumen surface width of 100mm. Apply the subsequent rolls as described above. Where a vertical substrate already exists, turn the horizontal membrane up to a height of 200mm ready for linking to the vertical membrane. Ensure all joints are staggered. Roll overlaps to ensure good bonding. The horizontal membrane must be protected immediately after laying with a 25mm screed or other adequate protective system such as Backerboard HD.

Vertical application

Cut the membrane to the appropriate length, then, starting at the top, remove about 200mm of release sheet and bond the membrane firmly to the substrate. Remove the release sheet progressively pressing the membrane onto the

primed surface. As with the horizontal membrane, lightly torch the upper surface of the laid sheet at overlaps to expose the bitumen before applying the next sheet. The vertical membrane must overlap the horizontal by a minimum 200mm. Roll all overlaps for good bonding. The upper edge of the membrane must be turned into a 20mm x 20mm chase and sealed with a suitable bitumen sealant. The membrane must be protected by a concrete or brick skin or adequate protection board as soon as possible prior to any backfilling .

Precautions

Alderprufe Membrane and Alderprufe Primer must not be applied when surface temperatures go below 5°C. When a brick skin is applied to the face of the vertical Alderprufe Membrane, 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 Membrane should be laid as can be adequately protected as work proceeds. When edges of Alderprufe Membrane are left exposed for any length of time ensure that all edges are held in place by battens.

Overlaps

Alderprufe 20K allows all overlaps and joints to be heat welded for maximum security. This is only possible because of the membranes unique sandwich construction and should be referred to when considering specification.

Typical Specification

Waterproofing membrane shall be Alderprufe 20K, minimum thickness 2mm with a puncture resistance of 122N. All laps fully heat welded. Fixed strictly in accordance with manufacturers instructions as supplied. Alderburgh Ltd, Sladen Mill, Halifax Rd. Littleborough. 01706 374416.

