

# TECHNICAL DATA

## VOLSHEET DPM

### HIGH PERFORMANCE DAMP PROOF MEMBRANE

#### DESCRIPTION:

**VOLSHEET DPM is a traditional Damp Proof Membrane** comprising of high quality environmentally friendly recycled polyethylene which meets the requirements as outlined in national Building Regulations part C section 4 (moisture from the ground) and for use as gas protection against radon or on gas contaminated land in accordance with the recommendations published by the Building Research Establishment (BRE212)

#### APPLICATIONS:

For use with solid concrete ground floors that are not subject to hydrostatic pressure, to protect buildings against water from the ground providing an effective barrier against liquid or water vapour for the lifetime of the building.

- ▶ Loose-laid system for ease of application
- ▶ Can be used with ground-bearing concrete floors or on suspended concrete or beam and block floors
- ▶ Building Regulations and Technical Standards require measures to be taken to prevent the buildup of harmful gases inside buildings.
- ▶ VOLSHEET DPM offers protection against radon or on gas contaminated land when included in schemes designed and installed with reference to the guidance offered by the relevant documents.

#### INSTALLATION:

**Quality control during the laying of the membrane is extremely important. The membrane should be laid in accordance with BRE 212 document and other relevant BS Codes of Practice.**

##### Preparation

###### Underslab ground membranes

The hard-core bed should be blinded with soft sand and consolidated to provide a smooth bed, free of sharp projections.

###### Overslab ground membranes

The top surface of the concrete slab should be free from ridges, undulations and sharp projections. If this is not the case, a sand bed may be necessary to reduce the risk of puncturing the membrane.

##### Laying

The membrane should be laid neatly and tucked well into angles to prevent bridging. At corners in upstands preformed units should be utilised.

##### Lapping and jointing

Rolls of VOLSHEET DPM should be lapped by a minimum of 150mm and sealed with a continuous strip of Butyl Tape DS100. Ensure that the membrane is clean and dry at the time of jointing.

The tape can be used together with a patch of Volsheet DPM to repair punctures or tears in the membrane.

It is recommended that service penetrations and corners in upstands

incorporate proprietary components such as pre formed units which shall be lapped and fully sealed with the Volsheet MB.

##### Protection

Protect the completed membrane adequately to prevent puncturing using protection boards, rigid insulation or a 50mm sand/cement screed.

##### Limitations

Volsheet DPM is not recommended for use when exposed to sunlight and general outdoor weather conditions for long periods of time. Weathering will not occur when installed with code of practice CP102 1973.

Where possible, services should be routed such that they do not pass through the membrane, thus reducing the number of penetrations. If puncturing is unavoidable, then repairs should take place in a similar fashion described in the lapping and jointing section.

#### STORAGE:

Rolls should be stored undercover in original unopened packaging, in cool dry conditions, on a flat level surface away from direct sunlight.

#### HEALTH AND SAFETY:

There are no health & safety implications in the normal use of this product.

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Property	Results
Thickness	300µm
Width	4m - 0 + 2.5%
Length	25m - 0 + 10%
Weight of Roll	27.6Kg
Water Vapour resistance	428 MNsg <sup>-1</sup>
Water Vapour Trans Rate	0.48g/m <sup>2</sup> /day
Density	0.93g/cm <sup>3</sup>
Mass/unit area	460g/m <sup>2</sup>