

Proofex Total

constructive solutions

High performance, totally gas-impervious, reinforced membrane

Uses

Reinforced gas membrane designed to protect buildings and their occupants from the effects of methane, radon, carbon dioxide and other harmful gases. Like conventional ground membranes, Proofex Total also acts as a damp-proof membrane to help protect the building against the ingress of moisture from the ground.

Advantages

- Independently certified performance, BBA certificate no. 01/3850.
- 6-layer product design for maximum gas protection.
- Polyester reinforcing grid for puncture resistance during application.
- Loose-laid system for ease of application.
- Can be used on ground-bearing concrete floors or on suspended concrete or beam and block floors.
- Can be used to form a cavity tray, eradicating the need for a separate product.

Description

Proofex Total is a black, 6-layer, reinforced, totally gas impermeable membrane comprising an aluminium foil layer and a polyester reinforcing grid sandwiched between four layers of polyolefins.

Maintenance

Proofex Total is extremely robust and will resist puncture during and after installation providing adequate care is taken to protect the membrane directly after installation. The membrane should be inspected prior to pouring a ground slab or screed and, should any holes or tears be found, these should be repaired using patches of Proofex Total taped in place using Proofex Total adhesive tape with at least a 150mm lap beyond the extremity of the puncture.

Properties

Membrane thickness	0.54mm
Weight (DIN53104)	435g/m ²
Roll weight (2m x 25m)	22kg
Water vapour permeability (75%RH/25°C) (BS 3177)	0.00
Methane gas transmission rate (BR212)	0.00
Bursting strength (DIN53141)	800kPa (min)

Standard compliances

Independently certified performance, BBA certificate (No. 01/3850).

British Standard 8102:1990-code of practice for 'Protection Of structures Against Water From the Ground'.

Application instructions

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 folded welts should be formed.

Lapping and jointing

Rolls of Proofex Total should be lapped by a minimum of 150mm and sealed with a continuous strip of Proofex Total Tape. Ensure that the membrane is clean and dry at the time of jointing. For increased performance, seal the edge of the upper sheet with Proofex Detail Strip or strips of Proofex 3000MR.

Proofex Total can also be heat welded by a specialist installer.

Protection

Protect the completed membrane adequately to prevent puncturing using Typar SF56 geotextile or Proofex Protection Board. Alternatively, the overlying construction, such as insulation, can be installed prior to pouring of concrete. If used in an overslab situation, unbonded screeds should be at least 50mm thick and laid as soon as possible after completing the membrane to reduce the risk of puncture.

Penetrations

Where possible services should be routed such that they do not pass through the membrane, thus reducing the number of penetrations.

Where penetrations are required, Proofex Top Hats are recommended and these should be stuck to membrane using Proofex Total Tape and sealed to pipe with Nitoseal MS50

Proofex Total

Ancillary products

Proofex Total Tape

Double-sided butyl tape for sealing of side and end laps and for use in detailing work.

Proofex Top Hats

MDPE sheathing, which encapsulates an aluminium foil layer.

Typar SF56

Non woven spun bonded geotextile.

Estimating

Proofex Total

Roll width:	2m
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Roll length:	25m
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Proofex Total Tape

Tape width:	50mm
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Tape length:	30m
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Storage

Store in original unopened packaging, in cool dry conditions, away from direct sunlight.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.



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Important note

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