

Fosroc® 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 hydrocarbon vapours, when not in direct contact.

Damp-proof membrane - Proofex Total also acts like conventional ground membranes, as a damp-proof membrane to help protect the building against the ingress of moisture from the ground.

Advantages

- 5-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 green/silver, 5-layer, reinforced, gas impermeable membrane comprising an aluminium foil layer and a polyester reinforcing grid sandwiched between three layers of polyolefins.

Standard compliances

BRE Digest 211 Radon : Guidance on protective measures for new buildings.

BRE Digest 212: Construction of new buildings on gas contaminated land.

CIRIA 665 - CS 2 & 3-6

BS8485 - CS 2 & 3-6

NHBC - AMBER 1& 2 & RED

Properties

Membrane thickness	0.4 mm
Weight	0.37kg/m ²
Roll weight (2m x 50m)	37 kg
Methane permeability (kg)(m/s)	7.799x10 ⁻¹²

CE	
Fosroc Ltd Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK 13 DOP: UK9-151	
Fosroc® Proofex Total	
EN 13967: Type A Damp Proof Sheet EN 13984 - /13984/A1: Type B Flexible sheet for waterproofing	
Tensile properties (EN 12311-1)	MD: >380 N/50mm CD: >300 N/50mm
Elongation at break (EN 12311-1)	MD: <31% CD: <28%
Resistance to tearing (EN 12310-1)	MD: >180 N CD: >270 N
Water vapour transmission properties (EN 1931)	0.03g/m ² .day
Methane permeability	7.799 x 10e-12 kg/ms-1

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, with the green surface facing upwards. 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.

Fosroc® Proofex Total

Protection

Protect the completed membrane adequately to prevent puncturing using a 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 MS60.

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.

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.

Estimating

Proofex Total

Roll width:	2m
Roll length:	50m

Proofex Total Tape

Tape width:	50mm
Tape length:	30m

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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Fosroc Limited

Drayton Manor Business Park
Coleshill Road, Tamworth,
Staffordshire B78 3XN. UK

www.fosroc.com

telephone:
+44 (0) 1827 262222

fax:
+44 (0) 1827 262444

email:
enquiryuk@fosroc.com



Certificate number FM 610