

# 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 black/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

Independently certified performance, BBA certificate (No. 17/5400).

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

Tested in accordance with the requirements of Table 7 of BS 8485:2015

### Properties

Membrane thickness	0.4 mm
Weight	0.37kg/m <sup>2</sup>
Roll weight (2m x 50m)	37 kg
Methane permeability (ISO 15105-1)	<0.1 ml/m <sup>2</sup> /day/tm
Colour	Black / Silver

<b>CE</b>	
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Fosroc® Proofex Total	
EN 13967: Flexible Sheets for Waterproofing: TypeA/ System 2+	
Tensile strength Control - MD /CD	MD: 452 N/50mm CD: 380 N/50mm
Tensile strength Heat Aged - MD /CD	MD: 442 N/50mm CD: 386 N/50mm
Nail Tear Control - MD/ CD	MD: 315 N CD: 331 N
Nail Tear Heat Aged - MD/ CD	MD: 280 N CD: 300 N
Durability of watertightness against ageing	Pass
Durability of watertightness against chemicals	Pass
Joint Strength - Control	118 N/50mm
Joint Strength - Heat Aged	133 N/50mm
Water vapour permeability	<0.03 g/m <sup>2</sup> /24h

### 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 suitable geotextile may be necessary to reduce the risk of puncturing the membrane.



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## Laying

The membrane should be laid neatly and tucked well into angles to prevent bridging, with the black 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. Following validation by a specialist engineer, for increased robustness the edge of the upper sheet may be overbanded 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 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.

## Inspection and Repair

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, or Proofex 3000MR.

The membrane installation should be subject to third-party independent validation in accordance with BS 8485 : 2015.

## 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.

### Proofex Total Flashing Strip

Foil tape used for sealing around column penetrations and for repairs/patching of membranes damaged during installation.

## Estimating

### Proofex Total

Roll width:	2m
Roll length:	50m

### Proofex Total Tape

Tape width:	30mm
Tape length:	30m
Tape thickness:	1.5mm

### Proofex Total Flashing Strip

Length	10m
Width	300mm
Thickness	1.5mm

## 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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