

## High performance waterproofing and radon barrier membrane for basements and below ground structures

### Uses

A high performance self adhesive membrane for a range of waterproofing and radon barrier applications including basements and substructures. Proofex 3000 provides a vapour, radon and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts.

### Advantages

- Cross-laminated HDPE film for protection against damage
- Dimensionally stable
- Combines toughness with flexibility for detailing around corners
- Self adhesive layer system makes installation quick, simple and reliable
- Resistant to ground water, soluble sulphates and chlorides
- Suitable for waterproofing basements grades 2 and 3 as defined in BS 8102:2009, 'Protection Of Structures Against Water From The Ground'
- Radon protection as defined by BRE report 211.

### Description

Proofex 3000 is a cold applied, flexible, waterproof, high performance membrane incorporating a cross laminated HDPE carrier film with a polymer modified bitumen compound.

Proofex 3000 should be laid in accordance with the provisions of BS 8102:2009. Where Proofex 3000 is being used as a floor DPM there should be continuity with wall DPCs and other DPMs used in the structure. If methane presence is suspected, a comprehensive site survey needs to be carried out. Refer to Proofex 3000MR data sheet for further information.


### Standard compliance

Proofex 3000 complies with EN 13707:2004 and EN 13969:2004.

Proofex 3000 complies with BRE 211.

Independently certified performance, BBA certificate (No. 09/4663)



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Proofex 3000	
EN 13707:2004 and EN 13969:2004 Flexible sheets for waterproofing	
Thickness (EN1849-1)	1.5mm
Tensile Strength (EN 12311-1)	Long. $\geq 215$ N/50 mm Trans. $\geq 220$ N/50 mm
Elongation at Break (EN 12311-1)	Long. $\geq 310\%$ Trans. $\geq 240\%$
Resistance to impact (EN 12691)	Met. A $\geq 500$ mm Met. B $\geq 1000$ mm
Resistance to static load (EN 12730)	Met. A $\geq 10$ Kg Met. B $\geq 15$ Kg
Resistance to tearing (EN 12310-1)	Long. $\geq 135$ N Trans. $\geq 135$ N
Watertightness (Method A) (EN 1928)	Pass at 60 kPa of water (24 hours)
Water vapour properties (EN1931)	9000 $\mu$



# Fosroc® Proofex 3000

## Properties

Water absorption	0.09%
Hydrostatic Test (DIN 52123 / DIN 16935)	> 6 bar (24 hours) / no leakage at 3 bars for 1 hour
Application temperature	+ 5°C / + 55°C
Service temperature	- 40°C / +80°C
Adhesion to primed concrete	2 N/mm
Adhesion to self (ASTM) D1000)	4.2N/mm
Radon permeability	$5.7 \times 10^{-12} \text{m}^2/\text{s}$

## Application instructions

### Surface preparation

All concrete surfaces must be a wood float or shutter finish and free from cavities or projections.

Masonry surfaces must be flush pointed and free of voids.

All surfaces must be clean, dry and free from contamination, ice and frost.

### Priming

Vertical surfaces shall be primed with Proofex Primer or Nitobond HAR. Ensure complete coverage and allow to dry. Only prime an area to which the Proofex 3000 can be applied the same day. Very porous surfaces may require more than one coat of primer.

### Angle and corner details

Where possible, a 25mm chamfer should be provided to all external angles prior to application of the reinforcing strip.

Use Proofex Angle Fillet strips fixed using 6 mm beads of Nitoseal MB175 at all wall to floor junctions.

All internal and external angles should be reinforced with Proofex Detail Strip or a 300 mm wide strip of Proofex 3000.

### Application

Application temperature range with Proofex Primer :  
5°C to 55°C.

Application temperature range with Nitobond HAR:  
10°C to 35°C.

**Vertical application:** Cut the Proofex 3000 to length allowing 150 mm for end laps/ 75mm for side laps and position by peeling back the release paper and applying the self adhesive face to the prepared surface.

Start at the top of the wall and work down by progressively removing the release paper in stages. Proofex 3000 should be applied to ensure that all end laps are weathered.

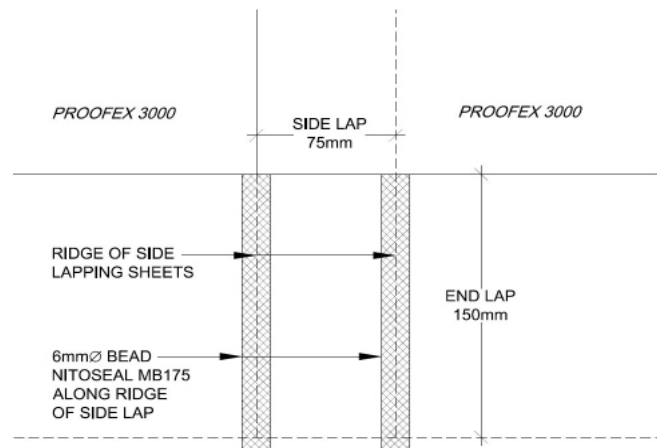
Temporary batten, or other support of the Proofex 3000 membrane is required before backfilling.

**Horizontal application:** Completely unroll the Proofex 3000 membrane and place against a chalk line. One half of the roll should then be rolled up to the mid point, the release paper carefully cut, without damaging the Proofex 3000 membrane and progressively removed from the mid point out to the end of the roll.

This process should be repeated on the other half of the roll. The Proofex 3000 membrane should be brushed onto the surface to ensure good bonding.

The next roll or length is aligned against the previously applied piece allowing for 75mm minimum edge laps and 150 mm end laps and applied as stated previously. The edge and end laps should be rolled to ensure complete adhesion and continuity between the layers.

For deck waterproofing applications where the lapping arrangement results in a side lap detail / end lap detail interface apply a 10mm diameter bead of Nitoseal MB175 to seal the joint as illustrated below:



### Penetrations

Penetrations e.g. pipe entries through the Proofex 3000 membrane require special attention to detail. Use of Proofex Top Hats is recommended and should be stuck to membrane using Proofex Total Tape and sealed to pipe with Nitoseal MS60

### Protection

Proofex 3000 membrane should be protected from physical damage and weathering as soon as possible after application. Surfaces should be protected from damage by Proofex Protection Board.

Proofex 3000 can also be covered with Proofex Sheetdrain to give both protection and a drainage layer.

### Backfilling

Backfill must be free from any sharp objects or debris which could damage the Protection/Proofex 3000. It should not contain any rocks or boulders larger than 50mm.

Backfilling should be carried out as soon as possible after application, preferably the same day.



# Fosroc® Proofex 3000

## Ancillary Products

### Proofex Protection Board

Bitumen impregnated board, designed to protect membranes from damage through backfilling and trafficking.

### Proofex Detail Strip

A double sided waterproof adhesive tape for use as reinforcing at all floor and wall junctions. It consists of a strong synthetic fibre fabric impregnated and coated both sides with a butyl adhesive, which is protected by a removable siliconised paper.

### Proofex Top Hat

MDPE sheathing, which encapsulates an aluminium foil layer. For use at service penetrations through Proofex 3000.

### Proofex Angle Fillet

Strips fixed at all floor and wall junctions with a 6mm bead of Nitoseal MB175.

## Estimating

### Proofex 3000

Roll size:	1 m x 20 m
Roll area:	20 m <sup>2</sup>
Edge laps:	75 mm minimum
End laps:	150 mm minimum
Weight:	32kg

### Proofex Primer

Coverage:	6 to 8 m <sup>2</sup> /litre
Minimum installation temperature:	+5°C rising
Drying time @ 20°C:	1 to 2 hours
Pack size:	5 ltr and 25 ltr drums

### Nitobond HAR

Coverage:	4 to 6 m <sup>2</sup> /litre
Minimum installation temperature:	+10°C rising
Drying time @ 20°C:	2 hours (dependant on humidity)
Pack size:	5 and 25 litres

### Proofex Detail Strip

Thickness:	1.5 mm
Roll size:	200 mm x 10 m

### Proofex Protection Board

3 mm Thickness:	1000 mm x 2000 mm
Coverage:	2.0 m <sup>2</sup>

## Storage

Proofex 3000 has a shelf life of 12 months and must be stored in an upright position at a temperature between 5°C and 40°C.

Proofex Primer has a shelf life of 2 years.

The 25 litre tins of Proofex Primer should not be stacked more than 2 high.

Nitobond HAR has a shelf life of 1 year.

## Precautions

### Health and safety

Each Proofex 3000 roll should be lifted by a minimum of two site operatives.

For information on all products refer to Product Safety Data Sheets available at [www.fosroc.com](http://www.fosroc.com).

Proofex Primer is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO<sub>2</sub> or foam. Do not use a water jet.

### Flash Point

**Proofex Primer:** >39°C

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