



constructive solutions

Fosroc® Proofex PGP

Loose laid PVC waterproofing membrane

Uses

Provides a continuously loose laid waterproof membrane system for building and civil engineering structures that include:

- Basement waterproofing.
- Tunnel waterproofing.
- Podiums and covered roof waterproofing.

Advantages

- Cold applied.
- Good resistance to puncturing .
- Fast application.
- Welded joints for maximum water-tightness.

Description

Flexible PVC synthetic membrane for the waterproofing of tunnels and below ground structures.

The membrane is manufactured in two different colours, it is coloured light grey on top and black on the underside. This helps to identify any damages that may occur during application.

Specification

The waterproofing shall be a 1.2mm/1.5mm/2mm/3mm thick loose laid PVC membrane with hot air welded seams.

Typical properties

Thickness: (EN 1849-2)	1.2mm, 1.5mm, 2mm and 3mm
Standard colours:	Upper layer: Light Grey Underside: Black
Tensile strength (ASTM D412 and EN 12311-2)	
Longitudinal:	16.5N/mm ²
Transversal:	15N/mm ²
Elongation at break (ASTM D412 and EN 12311-2)	
Longitudinal:	>300%
Transversal:	>300%
Puncture resistance: (EN 12236)	3.0mm : >3KN 2.0mm : 2.9KN 1.5mm : 2.6KN 1.2mm : 1.2KN
Water impermeability: (EN 1928)	Pass test
Water vapour transmission: (ASTM 96)	Nil
Tear resistance (EN 12310-1)	
Longitudinal:	3.0mm : >1000N 2.0mm : >460N 1.5mm : >340N 1.2mm : >220N
Transverse:	
Lap joint strength: (EN 12317 and UEATc)	>1000N/50mm (broken out joint)
Cold flexibility: (EN 495-5 at <-3°C)	Pass
Root resistance: (EN TS14416)	Pass test - no penetration

Instruction for use

Surface preparation

Surfaces should be free from cavities and projecting nibs. All surfaces shall be free from running water. Refer to the method statement for further details.

Application

The membrane layers are overlapped to achieve a minimum weld of 50mm. Hot air welding can be either hand applied or by means of automatic machines.

For vertical applications, weld Fosroc Proofex PGP Fitters to the Fosroc Proofex PGP membrane. Fosroc Proofex PGP Fitters are 80mm diameter PVC ribbed discs.

Fosroc® Proofex PGP

For the waterstop compartment systems use Fosroc Proofex PGP Flanges connected to hoses, which allow future resin injection (if required).

Fosroc Proofex PGP Flanges are 182mm diameter PVC flanges with a connector pipe. Compartments are created using Fosroc Supercast Rearguard waterstops and Supercast Predimax Injection Hose waterstops.

For additional details on installation and a list of Fosroc approved applicators refer to your local Fosroc office.

Limitations

If left exposed to heat, direct sunlight or UV light a change of colour may result and some physical properties may change.

Storage

Fosroc Proofex PGP must be stored in a cool, dry store away from sources of heat in the original unopened packaging.

Store rolls horizontally, not more than one pallet high.

Precautions

Health and safety

There are no known hazards associated with Fosroc Proofex PGP in normal use. For further information, please consult Material Safety Data Sheets for the above product.

Fire

Fosroc Proofex PGP, Fitters and Flanges are non-flammable.

Supply

Fosroc Proofex PGP: 2.10 m wide x 25 m long rolls
(all thicknesses)

Proofex PGP Fitters: Each

Proofex PGP Flange: Each

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