



constructive solutions

Fosroc Proofex PGP

(Formerly known as Proofex Alkorplan)

Loose laid / fully bonded PVC waterproofing membrane

Uses

Provides a continuously loose laid / fully bonded waterproof membrane system for building and civil engineering structures and is particularly suited to below ground construction.

- Basements waterproofing.
- Cut & cover tunnels waterproofing.
- Underground works waterproofing.

Advantages

- Cold applied.
- Good resistance to puncturing.
- Fast application.
- Welded joints for maximum watertightness.
- Resistance to root penetration & micro-organism

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 1.5, 2.2, 2.5 & 3.0 mm thick loose laid / fully bonded PVC membrane with hot air welded seams.

Typical Properties

Thickness (EN 1849-2) : 1.5, 2.0, 2.2, 2.5 & 3.0 mm (-5/+10%)

Standard Colours : Upper layer: Light grey
Lower layer: Black

Tensile strength (ASTM D412 and EN12311-2)

Longitudinal : 16.5N/mm²

Transversal : 15N/mm²

Elongation at break

(ASTM D412 and EN12311-2)

Longitudinal : 300%

Transversal : 300%

Puncture resistance

(ASTM E 154:93)

Maximum Load : 1200N

Water impermeability

(BSEN 12390 P8)

: No penetration

@ 5 bar pressure

Water vapor transmission(g/h-m2)

(ASTM 96) : Nil

Tear resistance

(ASTM D624)

Longitudinal : 50N/mm

Transversal : 50N/mm

Lap joint strength : 1000 N/5cm

(welded) UEATc

Cold Bending : EN49515 ≤ -30°C

Root penetration : No penetration

Fully Bonded Grade

Proofex PGP GTX comprises standard PVC membrane thermobonded with 300g/m² polyester geotextile which is glued to the substrate using Proofex PGP GTX adhesive. Overlaps are hot air welded as in the standard product.



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

Proofex PGP GTX (fully bonded grade) is glued to the substrate using Proofex PGP adhesive. the substrate must be sound, clean and free of standing water. Apply the adhesive evenly, after 10 minutes max drying time the membrane is rolled out and pressed firmly to the glue. Total drying time is between 1 and 5 hours depending on ambient temperature and humidity.

Limitations

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

Estimating

Supply

Proofex PGP

1.5, 2.0 & 2.2 mm	:	25 m long x 2.10 m wide roll
2.5 & 3.0 mm	:	20 m long x 2.10 m wide roll

Storage

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

Store the rolls horizontally, not more than one pallet high.

Precautions

Health and safety

For further information, please consult Material Safety Data Sheets for the above products.

Fire

Proofex PGP is non flammable

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Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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