



constructive solutions

Fosroc® Proofex ORF

“FM approved” reinforced synthetic TPO waterproofing membrane

Uses

Provides a continuously loose laid waterproof membrane system for building structures and is particularly suited to above ground applications including green roofs and cool roofs

- Green roofs and garden roofs
- Flat / sloping roofs and cool roofs

Advantages

- “FM approved” system to FM4470
- Environment friendly; Zero VOC's, no plasticisers, non-toxic, 8% of recycled material
- Reinforced grade to achieve aesthetically pleasing finish
- Fast application
- High resistance to weathering and UV
- Resistance to root penetration
- Welded joints for maximum watertightness
- No separation layer required against EPS
- Excellent long term performance
- White grade for “cool roofs”
- LEED SS10 v4.1 pass

Standard compliance

FM Approved system, certificate number 455682

Description

TPO/FPA (Thermoplastic Polyolefin Flexible Polypropylene Alloy) reinforced membrane produced by extrusion of granules resulting from the incorporation of ethylene propylene rubber into a composite polyester/glass fibre matrix together with other additives as appropriate to the type of membrane.

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

A white coloured grade is available which has a Solar Reflective Index of 98 suitable for cool roof applications.

Specification

The waterproofing shall be a reinforced 1.5mm thick loose laid TPO/FPA membrane with hot air welded seams certified to FM Approval 4470.

Typical properties

Thickness (EN 1849-2)	1.5mm (other thicknesses available)
Standard colour	Upper layer: Grey Underside: Black White grade for cool roofs
Weight per unit area (EN1849-2)	1.25kg/m ² per mm thickness +/- 10%
Tensile strength (EN 12311-2)	1200N/50mm
Elongation at break (EN12311-2)	
Longitudinal	30%
Transverse	30%
Puncture resistance (EN12691 dynamic)	Pass test >1200mm
Water impermeability (EN1928)	Pass test
Water vapour transmission (EN 1931)	56,500u
Tear resistance (EN12310-1)	
Longitudinal	1000N
Transverse	630N

Issued Sep 2020



Important note

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Fosroc® Proofex ORF

Root resistance (EN 13948)	Pass test
Lap joint strength (EN12317)	Pass test - broken out joint
Durability Resistance UV (EN1297)	Pass test 2500hrs – no crack
Hail resistance (FM 4470)	Pass (SH – severe hail)
Fire resistance FM 4470	ASTM E108 Class A
Resistance to Micro-organism (ISO846)	Pass test - Level 2
Wind uplift resistance (FM 4470)	Meet 1-105
Heat aging in air (EN 12311-A)	
Tensile	<-5%
Elongation	<-5%
Solar Reflectance Index (ASTM E1980)	98 (white grade)
LEED compliance (SS10 v4.1 Heat island reduction SRI)	Pass (white grade)

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.

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For corner detailing use Fosroc Proofex OGP

Internal/External corner pieces.

For upstand terminations use Fosroc Proofex Metal Strip.

For vertical detailing use Fosroc Proofex OGP adhesive.

Various Fosroc Proofex TPO drain outlets and connectors and aerator are available

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

Storage

Fosroc Proofex ORF must be stored in a cool, dry store in the original unopened packaging. Store rolls horizontally, not more than one pallet high.

Precautions

Health and Safety

There are no health hazards associated with the use of Fosroc Proofex ORF. For information associated with Fosroc Proofex OGP Adhesive please consult the relevant MSDS.

Fire

Fosroc Proofex ORF is non flammable.

Fosroc Proofex OGP Adhesive is highly flammable.

Supply

Proofex ORF	2.1m wide x 25m long rolls
Proofex OGP Adhesive (Coverage rates approx 0.4-0.6kg/m2)	20kg pail
Proofex Metal Strip 1.2mm thick	1m x 2m sheets 1m x 3m sheets
Proofex OGP Corner pieces Drain connectors Drain outlets Aerator	Each

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