Product data sheet

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Protan G 1.5

Product Description

Protan G 1.5 is a PVC-P roofing and waterproofing membrane reinforced with glass fibre fleece. It offers excellent dimensional stability, good elongation properties and resistance to microorganisms.

Application Area

Protan G 1.5 is a loose-laid membrane designed for ballasted roofing systems, using gravel, timber decking, concrete slabs or cast-in-place concrete. It is suitable for flat and sloped roofs, terraces and both extensive and intensive green roofs. In insulated roof systems, it can be used in conventional, inverted and duo roof constructions. The membrane must not be mechanically fastened, except for linear fastening along parapets. Protan G 1.5 is also suitable for detailing and as a waterproofing membrane in wet rooms, such as bathrooms.

Key Properties

- Root resistant according to FLL and EN 13948.
- Strong, secure joints achieved through hot-air welding – no open flames required.
- Slip-resistant surface embossing for enhanced safety.
- Documented carbon footprint (EPD).
- Recyclable.

Technical Properties

Characteristic	Test method	Unit	Value
Thickness	EN 1849-2	mm	1.5 (−5 % / +10 %)
Mass per unit area	EN 1849-2	g/m²	1768 (−5 % / +10 %)
Watertightness (10 kPa)	EN 1928 (B)	–	Pass
Tensile strength (L/T) [1)]	EN 12311-2 (A)	N/50 mm	≥ 500 / 500
Tensile strength (L/T) [1)]	EN 12311-2 (B)	N/mm²	≥ 7,5 / 7,5
Elongation (L/T) [1)]	EN 12311-2 (A)	%	≥ 200 / 200
Elongation (L/T) [1)]	EN 12311-2 (B)	%	≥ 180 / 180
Tear resistance (L/T) [1)]	EN 12310-2	N	≥ 110 / 110
Resistance to impact	EN 12691 (A)	mm	≥ 600
Resistance to static load	EN 12730 (C)	kg	≥ 20
Joint shear resistance	EN 12317-2	N/50 mm	≥ 450
Foldability at low temperature	EN 495-5	°C	≤ -30
Dimensional stability	EN 1107-2	%	≤ 0.1
Water vapour resistance (sd)	ISO 12572	m	20
Exposure to UV	EN 1297	–	Pass > 5000 h
Hail resistance, rigid substrate	EN 13583	m/s	≥ 22
Hail resistance, flexible substrate	EN 13583	m/s	≥ 47
Root resistance	FLL / EN 13948	–	Pass
Reaction to fire	EN 13501-1	–	Class E
External fire performance	EN 13501-5	–	Not documented [2)]

[1)] L: Longitudinal; T: Transverse.

[2)] Protan G 1.5 has no documented external fire classification. Where the roofing must meet BROOF(t2), use Protan G-FR 1.5.

Standard Dimensions

- Width: 2.0 m and 2.2 m
- Length: 7.5 m and 15 m

Surface Finish and Colour Options

- Top surface: light grey, dark grey, black, red, blue or white (Coolroof).
- Underside: dark grey.

The top surface has Protan's standard slip-resistant surface embossing for enhanced safety. Other colours are available on request.

Health, Safety and Environment

- Environmental Product Declaration according to EN 15804, NEPD-6561-5817 (the Norwegian EPD Foundation).
- Safety Data Sheet (SDS) available upon request.
- The membrane contains no substances on the REACH Candidate List of substances of very high concern (SVHC, ECHA) above 0.1 % by weight.

Storage

- Shelf life: 10 years from the production date, when stored correctly.
- Store in dry conditions, protected from direct sunlight.
- Keep rolls horizontally on a pallet. Do not stack pallets of rolls, and do not place other materials on top during transport or storage.

Installation Details

The membrane must be installed by trained professionals. It is laid loose and ballasted. Joints are hot-air welded. Install in line with Protan's installation guidelines for the specific roof system.

Certificates and Approvals

CE-marked according to EN 13956 and UKCA-marked according to UK regulations. Other certificates for this product are listed at www.protan.com.

CE

Notified body: SINTEF, no. 1071
Certificate: 1071-CPR-1142
EN 13956:2012

UK CA

Approved body: BBA, no. 0836
Certificate: UK 0836-CPR-23/F6931
EN 13956:2012

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