

Protan G 1.8

Product Description

Protan G 1.8 is a high-quality, fiberglass-reinforced thermoplastic (PVC-P) waterproofing membrane. Protan G 1.8 is dimensionally stable, have good elongation properties, and performs well in both high and low temperatures. The membrane provides good resistance to UV radiation, pollution, and microbes, and is root-resistant.

Application Area

Protan G 1.8 is installed loosely with ballast such as pebbles, wood, concrete tiles, or cast concrete. It can also be used in extensive or intensive green roofs. In insulated constructions, the membrane can be applied in upright, inverted, or duo systems. Protan G 1.8 should not be mechanically fixed except at the parapet, where it must be anchored linearly. The membrane is also suitable for creating details.

Key Properties

- Low CO2 footprint in the entire life cycle (cradle to grave)
- Documented long service life
- Fire resistant, meeting EN 13501-1 classification.
- Strong, secure joints achieved through hot-air welding – no open flames required. Good UV stability
- High water vapour permeability
- Root penetration resistant.
- Slip resistant embossing on the top surface for enhanced safety.
- Recyclable with documented carbon footprint.

Technical Properties

Characteristics	Performance	Test Method
Thickness	1.8 mm	EN 1849-2
Mass per Unit Area	2105 g/m ²	EN 1849-2
Water Tightness (10kPa)	Pass	EN 1928 (A)
Tensile Strength L/T	≥ 500/500 N/50 mm ²	EN 12311-2 (B)
Elongation L/T	≥ 200/180 %	EN 12311-2 (B)
Resistance to Impact	≥ 800 mm	EN 12691 (A)
Resistance to Static Load	≥ 20 kg	EN 12730 (C)
Tear Resistance L/T	≥ 7,5/7,5 N	EN 12310-2
Joint Peel Resistance	≥ 100	EN 12316-2
Joint Shear Resistance	≥ 600 N/50 mm	EN 12317-2
Foldability at Low Temp.	≤ -30 °C	EN 495-5
Water Vapour Resistance	Sd-value: 25 m	EN ISO 12572 / EN 1931
Exposure to UV	Pass > 5000 h	EN 1297
Hail Resistance	≥22 m/s (RS)*, ≥47 m/s (FS)**	EN 13583
Reaction to Fire	Class E	EN 13501-1
Root Resistance	Pass	FLL Guideline/EN 13948

L: Longitudinal; T: Transverse; *RS = Rigid substrate; **FS = Flexible substrate

Standard Dimensions

- Width: 2,0 m
- Length: 7,5-15 m

Surface Finish and Colour Options

The top surface features Protan's standard anti-slip embossing for enhanced safety. For standard colour options, visit our websites.

Health, Safety and Environment

- Environmental Product Declaration according to EN 15804 (the Norwegian EPD Foundation).
- Environmental Declaration registered in the Dutch Environmental Database (NMD).
- Safety Data Sheet (SDS) available upon request.
- The membrane does not contain any substances listed on REACH/ECHA's Candidate List and is free from priority environmental pollutants or other substances in quantities considered hazardous to health or the environment.

Storage

- Shelf life: 10 years from production date provided proper storage.
- Store in dry conditions, protected from direct sunlight.
- Keep rolls horizontally on a pallet. Avoid stacking pallets of rolls on top of one another or placing them under pallets with different materials during transport or storage.

Installation details

The product must be installed by experienced professionals. The membrane is hot-air welded and must be installed in accordance with the Protan technical specifications.

Certificates and Approvals

This product is CE-marked in accordance with EN 13956 and UKCA-marked in compliance with UK regulations. A broad selection of national and international certification schemes is also available. For a complete and updated overview of certifications, visit our websites.



Protan Legal Notice

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