



PROTAN BP Green

Product Description:

Protan BP Green is a thermoplastic polyester-reinforced roofing membrane with extra high strength and quality. Protan BP Green is well suited to withstand standing water and to be ballasted, is particularly strong, extra robust and has good properties at both high and low temperatures. It is root-resistant, fire-retardant, has good resistance to UV radiation, bacteria and other pollution.

Application Areas:

Protan BP Green is used as a waterproofing membrane in the Protan BlueProof Green roofing system. Protan BP Green system is green roof constructions with water attenuation as an additional function. The Protan BP Green membrane can be mechanically attached to load-bearing substrates or installed as a vacuum roof.

Characteristics / Benefits:

- The membrane has a textured surface which provides increased friction and an aesthetic finish.
- The membrane is especially robust.
- The membrane is welded together using hot air which provides a homogenous joint.
- Installation is safe without the use of an open flame.
- Weather independent installation.
- Protan membrane can be recycled and has a low carbon footprint.

Table 1: Product properties

PROPERTY	VALUE (BP Green)	UNIT	EN 13953 - TEST METHOD
Thickness	1,8 (-5/+10%)	mm	EN1849-2
Tensile strength L/T	≥ 1800/1400	N/50mm	EN12311-2(A)
Elongation L/T	≥ 15/15	%	EN12311-2(A)
Resistance to tearing L/T	≥ 450/300	N	EN12310-2
Dimensional stability	± 0.5	%	1107-2:2001
Foldability at low temperature	≤ -30	°C	EN495-5
Resistance to static load	≥ 30	Kg	EN12730(C)
Resistance to impact	≥ 600	mm	EN1269(A)
Joint shear resistance	≥ 1000	N/50mm	EN12317-2
Shear resistance of joints	Minimum value ≥ 150 Maximum value ≥ 300	N/50mm	EN12316-2:2000
Water vapour resistance	27	m	ISO 12572:2001
Water tightness (10 kPa)	Pass		1928:2000 (A)
Exposure to UV	Pass>5000h		EN 1297
Hail resistance			
	Hard substrate	≥ 22	EN13583
	Soft substrate	≥ 50	
Root Resistance	Pass		FLL
Dangerous substances	None		
Reaction to fire	Class E		EN13501-1

Colours and Protan colour codes:

UPPER SURFACE: <i>Protan colour code</i> ¹⁾	Dark grey, F 94
UNDER SIDE:	Greyish black

PRODUCT DATA SHEET

Dimensions / packaging: Protan BP GREEN

Width:	1m	2m
Length:	made to measure	made to measure

Health, Environment & Safety:

There is no requirement for a material safety data sheet according to EC-regulation 1907/2006, article 31. The product does not harm the environment when used as specified.

Environment:

Protan BP Green contains no substances which are listed on REACH/ ECHA's (European Chemicals Agency) candidate list. The membrane contains no priority environmental pollutants or other relevant substances in quantities considered to be hazardous to health and the environment.

Leaching from the product is assessed to not adversely affect soil, ground water or drinking water.

Installation details:

The joints of the Protan roofing membranes are welded by the use of hot air and the membranes shall be installed in accordance with the manufacturer's instructions.

The roofing system must be installed by roofing contractors specially approved by Protan AS. Their roofers must have passed "Roofing school" (a certificate containing the relevant basic education in Protan's roofing handbook) and attended Protan BlueProof roofing training.

All roofs must be undertaken visual inspection done by a person especially appointed by Protan. After completing the roof installation, a water flood /pressure test of the roof area has to be carried out, alternatively, verification using electronic leak testing.

Storage:

Protan membrane should be kept dry with the rolls placed on pallets and protected at the building site with tarpaulins or similar.

Maintenance:

For Protan BlueProof Green system annual inspection is recommended to be in front of possible damages. All Protan BlueProof roofs require a maintenance agreement with the building owner. This will ensure qualified inspection and maintenance of the roof and its components up to two times a year during the roofs lifetime.

Approvals:



[Protan AS SINTEF Certification](#)

Protan Legal Notice

The details provided in this document, especially the recommended application and utilisation for the products and their system accessories, are based on Protan's current knowledge and experience of the products when properly stored, handled and installed under normal conditions according to Protan's recommendations. A warranty in respect of merchantability or of fitness for a particular utilisation, nor any liability arising out of any legal relationship whatsoever, cannot be inferred either from this information, or from any written or verbal recommendations, due to the differences in materials, substrates and actual site conditions in practice. The user of the product is responsible for the product's suitability for the intended application. Protan reserves the right to change product specifications without notice. Additionally, Protan's current sales and delivery terms are valid and applicable for all orders. It is necessary for the user to always refer to the latest version of the relevant Product Data Sheet, which can be requested directly from Protan. All information provided, as well as technical and drawing data, complies with current technical standards and is based on Protan's knowledge and experience. In addition, national standards and regulations must be observed where appropriate.



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