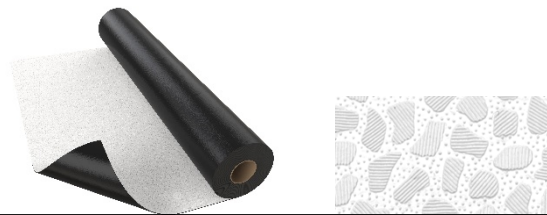


## PROTAN SE 1,5 COOL ROOF



### Product Description:

Protan SE1,5 COOL ROOF is a high-quality polyester reinforced thermoplastic waterproofing membrane with high tensile and tear strength.

Protan SE1,5 COOL ROOF contains stabilizers, which makes the product resistant to high and low temperatures, UV-resistant and flame retardant.

### Application Areas:

Protan SE 1,5 COOL ROOF is used on exposed roof surfaces. The membrane can be mechanically fastened to the load bearing substrate or installed in a Protan vacuum roof system. The membrane can be used on roofs of all shapes and sizes – whether flat, sloped or curved. The membrane is used on warm/compact roof constructions as well as cold/ventilated constructions.

### Characteristics / Benefits:

- The membrane has a textured surface which provides increased friction and an aesthetic finish. Compared with membranes without a texture, this represents a significant safety factor for both during installation and maintenance.
- 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	UNIT	EN 13953 - TEST METHOD	
Thickness	1,5 (-5/+10%)	mm	EN1849-2	
Tensile strength L/T	≥ 1100/1050	N/50mm	EN12311-2(A)	
Elongation L/T	≥ 15/15	%	EN12311-2(A)	
Tear strength trapezoidal	≥ 210	N/50mm	EN12310-2	
Dimensional stability	± 0.5	%	1107-2:2001	
Foldability at low temperature	≤ -30	°C	EN495-5	
Resistance to static load	≥ 20	Kg	EN12730(C)	
Resistance to impact	≥ 600	mm	EN1269(A)	
Joint shear resistance	≥ 1000	N/50mm	EN12317-2	
Shear resistance of joints	≥ 150	N/50mm	EN12316-2:2000	
Water vapour resistance	22	m	ISO 12572:2001	
Exposure to UV	Pass>5000h		EN 1297	
Dangerous substances	None			
Hail resistance:				
	Hard substrate	≥ 22	m/s	EN13583
	Soft substrate	≥ 50	m/s	EN13583
Reaction to fire	Class E		EN13501-1	
External fire performance	B <sub>ROOF</sub> (t1,t2 and t3)		EN1187 part 1,2,3	
Reflectance	0,86		ASTM C 1549	
Emittance	0,84		ASTM C 1371	
Solar Reflectance Index (SRI)	104		ASTM E 1980	

*\*) External documentation for fire classification according to ENV 1187 part 1, and 3, for the most relevant substrates are available on request.*

### Colours and Protan colour codes:

<b>UPPER SURFACE:</b> Protan colour code <sup>1)</sup>	Cool Roof F01
<b>UNDER SIDE:</b>	Dark grey

## PRODUCT DATA SHEET

### Dimensions / packaging: Protan SE 1,5 COOL ROOF

Width:	1m	2m
Length:	20m	20m
Roll:	20m <sup>2</sup> /36kg + core	40m <sup>2</sup> /72kg + core
Pallet:	560m <sup>2</sup> /1008kg + core and pallet	560m <sup>2</sup> /1008kg + core and pallet

*Other widths and lengths can be delivered to order.*

### 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 SE 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.

An EPD is available for the product.

### Installation details:

Installation must be carried out by a Protan Authorised Roofing Contractor. The membrane is welded using hot air and shall be installed according to the Protan Technical Installation Manual and associated Protan Technical Information Sheets.

### Storage:

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

### 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.*