PROTEUS
LOW-K

PRODUCT DATASHEET | V3 | MARCH 2026

PRODUCT DETAILS

Product name	**Proteus Low-K**
Product type	Water flow reducing layer

PRODUCT DESCRIPTION

Proteus Low-K is a breathable waterproof membrane which minimises the cooling effect associated with rainwater flowing down through the insulation and draining away.

This provides improved U-Values, reducing the required insulation thickness.

APPLICATION

Proteus Low-K is used within an inverted roofing system in conjunction with the following inverted insulation boards:

- Proteus Pro-Therm XPS
- Proteus Pro-Therm EPS
- Proteus Pro-Therm XPS Upstand Board
- Proteus Pro-Therm Non-Combustible Upstand Board

Proteus Low-K is suitable for use with the following waterproofing systems:

- Pro-BW® Plus
- Pro-BW® LO
- Proteus Hot Melt®
- Cold Melt®

INSTALLATION

- Loose lay over the inverted insulation, unrolling across the direction of the slope/fall next to the wall or upstand at the low point
- Overlap subsequent sheets by **300mm** with the overlap covering the first sheet in the direction of the fall
- Use temporary ballast where necessary during the laying process with side and end laps of **300mm**
- Use separate pieces at all vertical details and penetrations, always achieving **300mm** minimum overlap onto the horizontal and high enough to reach the top of the finishes
- Star cut the membrane using a sharp knife at outlet positions and turn down into the insulation board.
- **Proteus Low-K** is UV-resistant and can be safely exposed on site for a maximum of **4 months**

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Water vapour transmission nominal	0.01	S_d	BS EN ISO 12572
Water vapour transmission minimum	0.003	S_d	BS EN ISO 12572
Weight	0.06	kg/m²	-
Max tensile force longitudinal	310	N/50mm	-
Max tensile force transverse	310	N/50mm	-
Elongation at max tensile force longitudinal	17.5	%	-
Elongation at max tensile force transverse	20	%	-
Tear resistance longitudinal	50	N	-

Proteus Waterproofing Limited
21a Sirdar Road
Brook Road Industrial Estate Rayleigh
Essex SS6 7XF

Telephone 01268 777 871
E-mail office@proteuswaterproofing.co.uk
Website www.proteuswaterproofing.co.uk

Characteristic	Value	Unit	Standard
Tear resistance transverse	45	N	-

The product has been tested in accordance with ETAG 031.
The following ***fx*** values have been verified for use in U-Value calculations:
fx = 0.0012 (paving slabs on supports)
fx = 0.0010 (gravel or green roof system)

SIZE, FINISH AND COLOUR

Product Code	Length m	Width m	Thickness mm	Weight kg	Colour
INLOWKNEW	100	3	0.185	18	White

HANDLING

- The polyethylene packaging is not adequate protection for outside storage so should be stored inside
- If outdoor storage cannot be avoided the rolls should be stored on their sides, on a clean dry surface, and covered with an opaque polythene sheet or weatherproof tarpaulin

MATERIAL

Nonwoven polyethylene membrane.

PACKAGING

Packaged in polyethylene.

LIMITATIONS OF USE

For professional use only.

GUARANTEES

Defects arising from lack of maintenance or abnormal use may fall outside of the cover of the Proteus Waterproofing guarantee.

DISPOSAL

Disposal of **Proteus Low-K** should be done in a manner that is compliant with UK regulations and best practices. This includes ensuring that the material is properly classified and described, that it is not mixed with hazardous waste, and that it is disposed of in a manner that is environmentally responsible.

GUIDELINES AND STANDARDS

It is the responsibility of the Contractor to thoroughly familiarise themselves with all relevant Codes of Practice and Building Regulations to the works or referred in the specification.

Proteus Waterproofing take no responsibility for misinterpretation or lack of knowledge for third parties.

The works shall be carried out in accordance with the requirements of:

- **BS 6229** Flat roofs with continuously supported flexible waterproof coverings - Code of practice
- **BS 8217** Reinforced bitumen membranes for roofing - Code of practice
- **BS 8000-0** Workmanship on construction sites - Introduction and general principles
- **BS 8000-4** Workmanship on building sites - Code of practice for waterproofing
- **LRWA** Design Guide for Specifiers
- **S2T** Safe to Torch
- **GRO** Code of Best Practice