



## PRODUCT DETAILS

Product name	<b>Proteus Pro-Therm XPS</b>
Product type	Polystyrene insulation

## PRODUCT DESCRIPTION

**Proteus Pro-Therm XPS** is a rigid but lightweight extruded polystyrene (XPS) board with high compressive strength and is used in conjunction with **Proteus Pro-Therm Low-K** Membrane as part of a Proteus Inverted Roof System.

## APPLICATION

**Proteus Pro-Therm XPS** is used for the thermal insulation of a wide variety of flat roofs including:

- Inverted roofs below ballast or paving slabs
- Green roofs

**Proteus Pro-Therm XPS** is suitable for use with the following waterproofing membranes as part of an inverted/green roof system:

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

## INSTALLATION

- **Proteus Pro-Therm XPS** is to be laid over the already laid waterproofing membrane
- **Proteus Pro-Therm XPS** can be cut to shape using a fine-toothed saw, a hot wire system or by scoring with a sharp knife and snapping the board over a straight edge
- Ensure accurate trimming to achieve close-butting joints and continuity of insulation
- Start laying the **Proteus Pro-Therm XPS** insulation boards from the point of access to the roof
- Insulation boards should always be loose-laid break bonded, either with their long edges at right angles to the edge of, or diagonally across the roof, and with joints lightly butted together.
- There should be no gaps at abutments
- If two or more layers of insulation are required, they should be horizontally offset relative to each other so that, as far as possible, the board joints in any two adjacent layers do not coincide with each other
- Once laid, **Proteus Pro-Therm Low-K** membrane is then installed on top of the insulation

## TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Reaction to fire	F	-	EN 13501-1
U-Values <small>dependant on thickness</small>	0.08 – 0.24	W/m <sup>2</sup> K	EN 13370
Thermal resistance	0.85 – 4.40	m <sup>2</sup> K/W	EN 13164
Water vapour resistivity	>40	MNs/gm	EN 12086
Maximum service temperature	75	°C	-

## SIZES

Compressive strength kPa   EN 826	Thermal conductivity W/(m.K)	Thickness mm   min - max	Length mm	Width mm
300	0.034	30 – 150	1250	600
500	0.034	50	1250	600
500	0.036	80 / 90 / 100	1250	600
700	0.035	50 / 60 / 80	1250	600

Each project is designed individually to suit specific needs by our in-house design team  
Please contact Proteus Waterproofing for further information  
Tapered schemes are also available

## SHELF LIFE AND HANDLING

Ensure the product is not stored close to open flames or other ignition sources and avoid volatile organic compounds and chemicals such as solvents.

**Proteus Pro-Therm XPS** should not be left exposed to prolonged sunlight as this will result in surface degradation.

When outside storage for extended periods is required, cover the products with opaque/light coloured sheeting.

## MATERIAL

Rigid extruded polystyrene.

## PACKAGING

Wrapped in polyethylene.

## LIMITATIONS OF USE

For professional use only.

## CHEMICAL PROPERTIES, SAFETY GUIDANCE AND DISPOSAL

Please refer to **Proteus Pro-Therm XPS Safety Datasheet**.

## GUARANTEES

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

## 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](#)