



PRODUCT DETAILS

Product name **Proteus Pro-Therm EPS Plus Premium**

Product type Insulation

PRODUCT DESCRIPTION

Proteus Pro-Therm EPS Plus Premium is a high-performance expanded polystyrene rigid foam insulation for a variety of roof types which offers high compressive strength, low water absorption and resistance to the effects of freezing/thawing.

It is available in a range of thicknesses from **50mm** to **240mm** (in 5mm increments).

APPLICATION

Proteus Pro-Therm EPS Plus Premium is suitable for use on the following roof types:

- Inverted flat roofs
- Terrace roofs
- Green roofs
- Blue roofs
- Promenade roofs
- Podium decks

Proteus Pro-Therm EPS Plus Premium is suitable use with the following waterproofing systems:

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

INSTALLATION

Substrate preparation

- The already waterproofed surface must be cleared of any debris and thoroughly cleaned to prevent damage to the waterproofing membrane
- The surface must be level and as dry as possible to reduce the risk of condensation once the insulation and waterproofing is installed

Installation method

- **Proteus Pro-Therm EPS Plus Premium** board should be loose laid directly to the waterproofing membrane
- The boards should be laid staggered, starting from the point of access to the roof
- No adhesion or mechanical fixings are required when inverted if the correct ballast weight is used
- **Proteus Pro-Therm Low-K** water flow reducing layer is then laid over the insulation
- Gravel ballast and/or paving slabs are used to ballast the insulation and provide a trafficable surface

TECHNICAL INFORMATION

Characteristic		Value	Unit	Standard
Compressive strength	10% compression	200	kPa	EN 826
Compressive creep	1% compression	90	kPa	EN 1606
Design load for compressive creep		60	kPa	-
Bending strength		250	kPa	EN 13163
Thermal conductivity	green/blue/brown roof	0.033	W/m·k	-
Thermal conductivity	slabs and ballast	0.031	W/m·k	-
Long term water absorption by immersion		≤1	%	EN 12087
Long term water absorption by diffusion		≤1	%	EN 12088
Reaction to fire		E	-	EN 13501-1

SIZE, FINISH AND COLOUR

Length mm	Width mm	Thickness range mm	Colour
1200	1200	50 - 240	Grey

Each project is designed individually to suit specific needs by our in-house design team
Tapered schemes are also available

SHELF LIFE AND HANDLING

- Store in a cool, dry place
- Must be kept covered and weighted to prevent lifting in high winds
- Always use relevant safe manual handling techniques relevant to a products size and weight

MATERIAL

Expanded polystyrene (EPS).

PACKAGING

Packaged on pallets ranging from **10** to **48** boards, depending on board size.

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.

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](#)