



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:

- Proteus Cold Melt®
- Proteus Hot Melt®
- Proteus Pro Cold®
- Proteus 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 Low-K Water 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 at 10% compression	200	kN/m ²	EN 826
Compressive strength at 1% compression	90	kN/m ²	EN 826
Long term compressive creep	60	kN/m ²	EN 1606
Bending strength	250	kN/m ²	EN 13163
Thermal conductivity	0.031	W/mK	-
Thermal conductivity (below green roof)	0.033		
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

Product Code	Length (mm)	Width (mm)	Thickness (mm)	Colour
INEPPI050	1200	1200	50	Grey
INEPPI055	1200	1200	55	Grey
INEPPI060	1200	1200	60	Grey
INEPPI065	1200	1200	65	Grey
INEPPI070	1200	1200	70	Grey
INEPPI075	1200	1200	75	Grey
INEPPI080	1200	1200	80	Grey
INEPPI085	1200	1200	85	Grey
INEPPI090	1200	1200	90	Grey
INEPPI095	1200	1200	95	Grey
INEPPI100	1200	1200	100	Grey
INEPPI105	1200	1200	105	Grey
INEPPI110	1200	1200	110	Grey
INEPPI115	1200	1200	115	Grey
INEPPI120	1200	1200	120	Grey
INEPPI125	1200	1200	125	Grey
INEPPI130	1200	1200	130	Grey
INEPPI135	1200	1200	135	Grey
INEPPI140	1200	1200	140	Grey
INEPPI145	1200	1200	145	Grey
INEPPI150	1200	1200	150	Grey

Product Code	Length (mm)	Width (mm)	Thickness (mm)	Colour
INEPPI155	1200	1200	155	Grey
INEPPI160	1200	1200	160	Grey
INEPPI165	1200	1200	165	Grey
INEPPI170	1200	1200	170	Grey
INEPPI175	1200	1200	175	Grey
INEPPI180	1200	1200	180	Grey
INEPPI185	1200	1200	185	Grey
INEPPI190	1200	1200	190	Grey
INEPPI195	1200	1200	195	Grey
INEPPI200	1200	1200	200	Grey
INEPPI205	1200	1200	205	Grey
INEPPI210	1200	1200	210	Grey
INEPPI215	1200	1200	215	Grey
INEPPI220	1200	1200	220	Grey
INEPPI225	1200	1200	225	Grey
INEPPI230	1200	1200	230	Grey
INEPPI235	1200	1200	235	Grey
INEPPI240	1200	1200	240	Grey

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](#)