



PRODUCT DETAILS

Product name      **Proteus Pro-Therm XPS Plus**  
Product type      Insulation

PRODUCT DESCRIPTION

**Proteus Pro-Therm XPS Plus** is an extruded polystyrene rigid foam insulation panel for a variety of roof types and is available in a range of thicknesses from **50mm to 400mm**.  
Purple-coloured **Proteus Pro-Therm XPS Plus** offers a thermal conductivity of **0.027 W/m·K** across all panels to reduce thicknesses and thresholds in any application.

APPLICATION

**Proteus Pro-Therm XPS Plus** is suitable for use in the following roof systems:

- Conventional flat roofs
- Inverted flat roofs
- Promenade roofs
- Green roofs

**Proteus Pro-Therm XPS Plus** is suitable for use with the following waterproofing membranes:

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

INSTALLATION

- **Proteus Pro-Therm XPS Plus** 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
- **Proteus Pro-Therm XPS Plus** is to be laid over the already laid waterproofing membrane
- Start laying the **Proteus Pro-Therm XPS Plus** insulation boards from the point of access to the roof
- **Proteus Pro-Therm XPS Plus** boards should be laid in a staggered pattern where practical, with joints lightly butted. There should be no gaps at abutments
- Once laid, **Proteus Pro-Therm Low-K** membrane is then installed on top of the insulation

CERTIFICATION

Type	Name	Reference
EPD	Proteus Pro-Therm XPS Plus	EPD-JAI-20200164-IBC1-EN

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Thermal conductivity <small>nominal</small>	0.027	W/m·K	EN 13164
Thermal conductivity <small>with moisture correction factor</small>	0.028	W/m·K	-
Compressive strength <small>10%</small>	300	kPa	EN 826

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

**Telephone**    01268 777 871  
**E-mail**        [office@proteuswaterproofing.co.uk](mailto:office@proteuswaterproofing.co.uk)  
**Website**      [www.proteuswaterproofing.co.uk](http://www.proteuswaterproofing.co.uk)



Characteristic	Value	Unit	Standard
Deformation <small>40kPa   70°C</small>	≤ 5	%	EN 1605
Long term water absorption by total immersion	≤ 0.7	%	EN 12087
Coefficient of linear thermal expansion	0.07	mm/(m.K)	-
Reaction to fire	E	-	EN 13501-1
Maximum working temperature	75	°C	-
Freeze/thaw cycle durability	≤ 1	%vol	EN 12091

## SIZE

Length mm	Width mm	Thickness mm	Thermal conductivity W/m.K	Thermal Resistance m².K/W	Colour
1250	600	50	0.027	1.85	Purple
1250	600	60	0.027	2.20	Purple
1250	600	80	0.027	2.95	Purple
1250	600	100	0.027	3.70	Purple
1250	600	120	0.027	4.40	Purple
1250	600	140	0.027	5.15	Purple
1250	600	160	0.027	5.90	Purple
1250	600	180	0.027	6.65	Purple
1250	600	200	0.027	7.40	Purple
1250	600	220	0.027	8.10	Purple
1250	600	240	0.027	8.85	Purple
1250	600	260	0.027	9.60	Purple
1250	600	280	0.027	10.35	Purple
1250	600	300	0.027	11.10	Purple
1250	600	320	0.027	11.85	Purple
1250	600	340	0.027	12.55	Purple
1250	600	360	0.027	13.30	Purple
1250	600	380	0.027	14.05	Purple
1250	600	400	0.027	14.80	Purple

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

## SHELF LIFE AND HANDLING

Ensure the **Proteus Pro-Therm XPS Plus** 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 Plus** 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 **Proteus Pro-Therm XPS Plus** 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 Plus** [Material 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](#)