PROTEUS PRO-THERM XPS PLUS

PRODUCT DATASHEET

v1.0 | SEPTEMBER 2024

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 **30mm to 320mm**.

Purple-coloured **Proteus Pro-Therm XPS Plus** offers a thermal conductivity (k-value or λ-value) of **0.027 W/mK** 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:

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

Proteus Waterproofing Limited
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Essex SS6 7XF

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Website www.proteuswaterproofing.co.uk

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Thermal conductivity	0.027	W/mK	EN 13164
Thermal conductivity including moisture correction factor	0.028	W/mK	-
Compressive stress at 10%	300	kPa	EN 826
Compressive creep (50 years, deformation < 2%)	130	kPa	EN 1606
Reaction to fire	E	-	EN 13501-1
Maximum working temperature (min / max)	-50 / +75	°C	-

SIZE

Product Code	Length (mm)	Width (mm)	Thickness (mm)	Boards per pack	Per pack (m^2)	Packs per pallet	Per pallet (m^2)
INXPP030C	1250	600	30	8	6.00	12	72.0
INXPP040C	1250	600	40	8	6.00	12	72.0
INXPP050	1250	600	50	8	6.00	12	72.0
INXPP060	1250	600	60	7	5.25	12	63.0
INXPP070C	1250	600	70	5	3.75	12	45.0
INXPP080	1250	600	80	5	3.75	12	45.0
INXPP090C	1250	600	90	4	3.00	12	36.0
INXPP100	1250	600	100	4	3.00	12	36.0
INXPP120	1250	600	120	3	2.25	14	31.5
INXPP140	1250	600	140	3	2.25	12	27.0
INXPP150C	1250	600	150	3	2.25	10	22.5
INXPP160	1250	600	160	3	2.25	10	22.5
INXPP180	1250	600	180	2	1.50	14	21.0
INXPP200	1250	600	200	2	1.50	12	18.0
INXPP220	1250	600	220	2	1.50	12	18.0
INXPP240	1250	600	240	2	1.50	10	15.0
INXPP260	1250	600	260	2	1.50	10	15.0
INXPP280	1250	600	280	2	1.50	10	15.0
INXPP300	1250	600	300	1	0.75	18	13.5
INXPP320	1250	600	320	1	0.75	16	12.0

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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