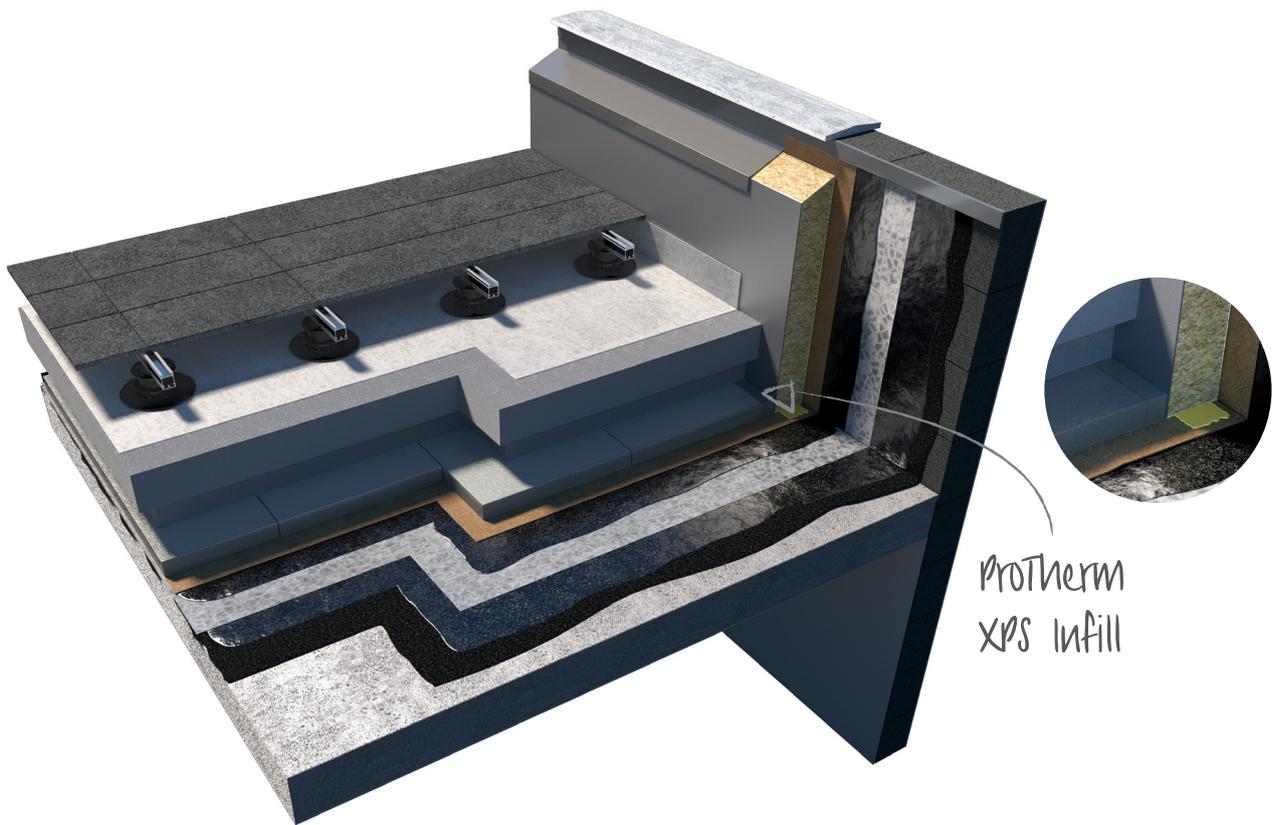


# ProTherm Quantum XPS Infill

## Product Data Sheet



Used to infill at perimeters and around penetrations in conjunction with **ProTherm Quantum VIP Panels**, and as a packer board to achieve a required height in **ProTherm Quantum 'Hybrid'** systems.

# ProTherm Quantum

## XPS Infill

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### General Information

**ProTherm XPS Infill** is used to infill at perimeters and around penetrations in conjunction with ProTherm Quantum 'Hybrid' and 'Pure' VIP insulation boards, ProTherm XPS Infill Boards are an all-round thermal insulation board with smooth surface and overlap. For use in the ProTherm Quantum VIP Insulation System installed over any BBA Certified Inverted roofing systems.

ProTherm XPS Infill is a rigid, closed cell type Extruded polystyrene board with integral high density skin. ProTherm XPS Infill has a Zero Ozone Depletion Potential (ODP), a Global Warming Potential (GWP) of less than 5 and an A rating in accordance with the Green Guide to Specification.

### Certificates

ISO 9001@2008 Quality Management System, ISO 14001 :2004 Environmental Management System, EPD as per ISO 14025 and EN 1580.

### Installation Instructions

Apply ProTherm XPS Infill parallel to roof perimeter long edges. Stagger end joints.

Lay ProTherm XPS Infill with edges in moderate contact without forcing.

Cut ProTherm XPS Infill to fit neatly to perimeter blocking and around penetrations through roof, when using a 2nd layer stagger joints of insulation from first layer.

Cut ProTherm XPS Infill to create an opening large enough to accommodate the installation of either a domical or flat grate into a flanged rainwater outlet.

Apply no more ProTherm XPS Infill than can be covered with aggregate ballast/concrete roof pavers/green roofing in the same day.

Keep ProTherm XPS Infill minimum 75mm from heat emitting devices, and minimum 50mm from sidewalls of chimneys and vents.

### Delivery conditions

#### Delivery form

Shrunk wrapped on a pallet, quantity depending on board thickness.

#### Storage and transport

During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources. This material contains a halogenated flame retardant additive system to inhibit accidental ignition from small fire sources.

#### Product identification

Information on the pack;

Product name.

Dimensions.

Approvals.

Production date.

# ProTherm Quantum

## XPS Infill

### PRODUCT DESCRIPTION

<b>Appearance top side</b>	Grey Skin
<b>Core</b>	Grey color, HFC free, Extruded polystyrene foam XPS (EN13164). EN designation code T1-CS(10\Y)300-CC(2/1,5/50)110-WL(T)0,7-WD(V)3-FT2-DS(TH)-DLT(2)5
<b>Appearance bottom side</b>	Grey Skin

### DECLARED PERFORMANCE

Essential Characteristics	Performance	Unit	EN Code	Standard
<b>Ozone Depletion Potential</b>	Zero	-	-	-
<b>Global Warming Potential</b>	< 5	-	-	-
<b>BRE Green Guide Rating</b>	A	-	-	-
<b>Density (aim, foam only)</b>	34	kg/m <sup>3</sup>	-	BS EN 1602
<b>Dimensions and tolerances</b>				
- Thickness	30, 40, 50, 80	mm	-	BS EN 823
Single Layer				
Double Layer	60 (30+30), 70 (30+40), 90 (40+50)			
- Width	600	mm	-	BS EN 822
- Length	1250	mm	-	BS EN 822
<b>Thermal Conductivity</b>				
Declared value <sup>(1)</sup>				
- Thickness 20-40mm	0.035	W/mK	λ <sub>D</sub>	BS EN 13164
50mm	0.031	W/mK	λ <sub>D</sub>	BS EN 13164
80mm	0.032	W/mK	λ <sub>D</sub>	BS EN 13164
100 & 120mm	0.033	W/mK	λ <sub>D</sub>	BS EN 13164
130-200mm	0.036	W/mK	λ <sub>D</sub>	BS EN 13164
<b>Mechanical properties</b>				
- Compressive strength at 10% compression	300	kPa	CS(10\Y)300	BS EN 826
- Design load 2% max. deflection (50 years)	130	kN/m <sup>2</sup>	CC(2/1.5/50)oc	BS EN 1606
<b>Hygrometric properties</b>				
- Long term water absorption by immersion (28 days)	<0.7	vol %	-	BS EN 12087
- Long term water absorption by diffusion	<3	vol %	-	BS EN 12088
- Water vapour diffusion resistance factor (μ), typical	80-200	vol %	-	BS EN 12086
- Freeze/thaw, after 300 cycles	<1	vol %	-	BS EN 12091
<b>Reaction to fire</b>	E	-	Euroclass	BS EN 13501-1
<b>Linear thermal expansion coefficient</b>	0.07	E	-	-
<b>Maximum service temperature</b>	+75	E	-	-
<b>Capillarity</b>	0	E	-	-
<b>Surface</b>	Skin	-	-	-
<b>Edge profile</b>	15mm shiplap edge, rebated on all 4 sides*	-	-	-

\* Panel to be cut to required infill size

This information given in good faith and is based on the latest knowledge available to Radmat Building products Ltd. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice.

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