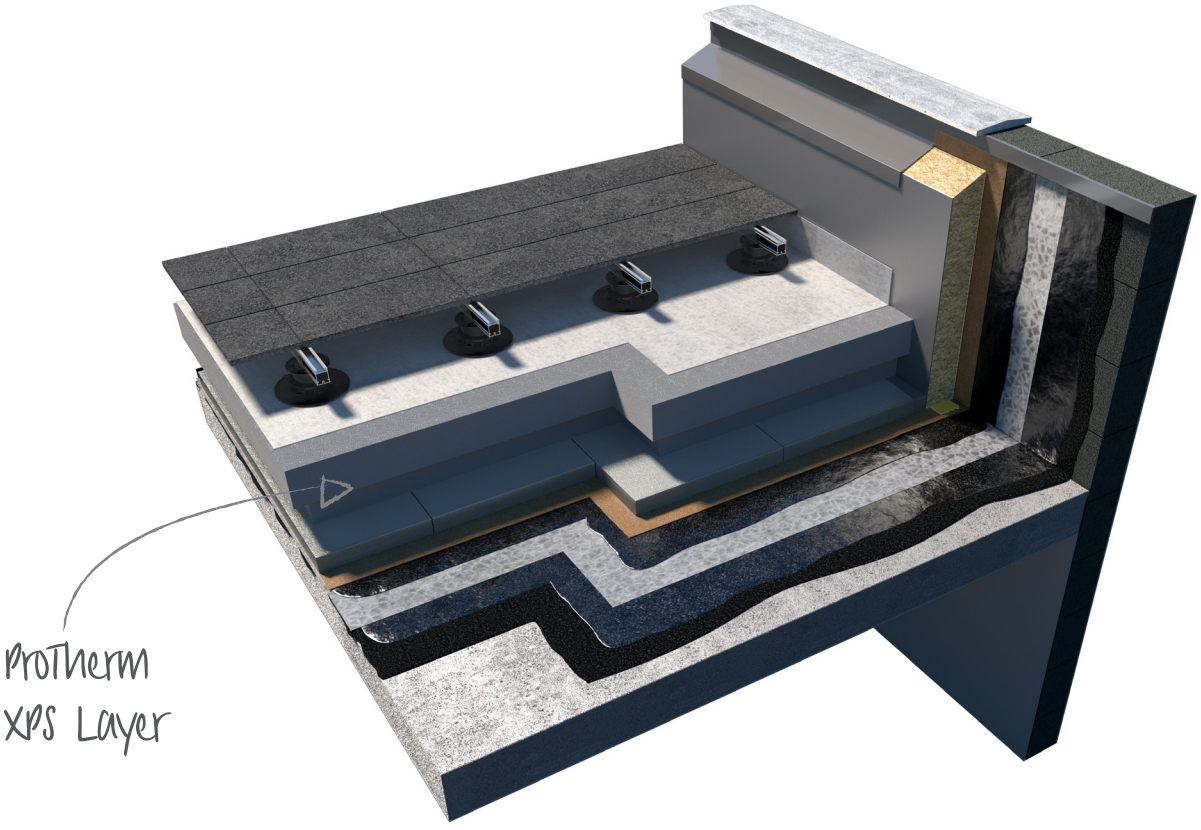
Radmat building products

Specialists in Roofing and Waterproofing

ProTherm Quantum XPS Layer

Product Data Sheet



Used to compliment the thermal performance of **ProTherm Quantum VIP Panels**, and as a packer board to achieve a required height in **ProTherm Quantum 'Hybrid'** systems.

ProTherm Quantum

XPS Layer

General Information

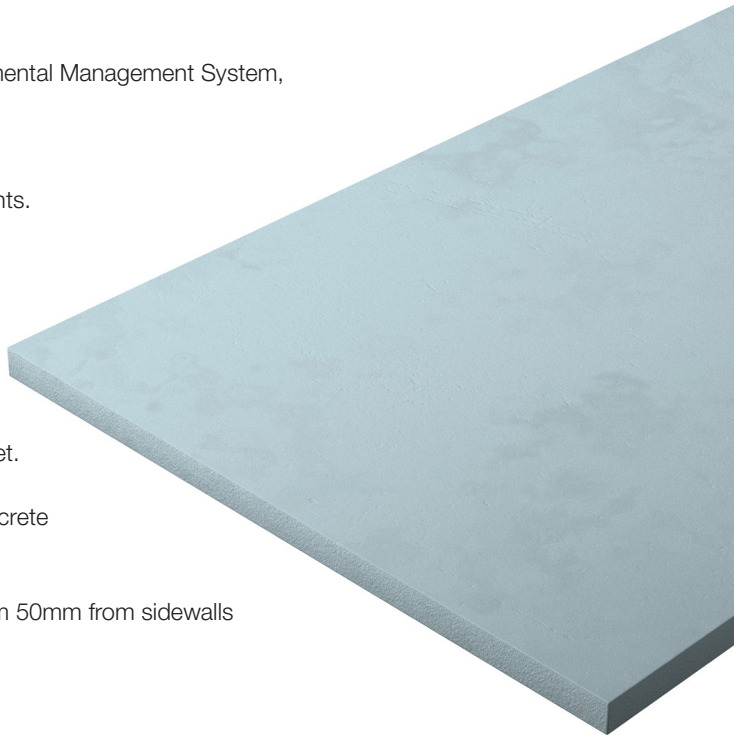
ProTherm XPS Layer is used to complement the thermal performance of ProTherm Quantum VIP Panels, and as a packer board to achieve a required height in ProTherm Quantum 'Hybrid' systems.

For use in the ProTherm Quantum VIP Insulation System installed over any BBA Certified Inverted roofing systems.

XPS Layer is a rigid, closed cell type Extruded polystyrene board with integral high density skin. XPS Layer 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 the XPS Layer parallel to roof perimeter long edges. Stagger end joints. Lay the XPS Layer with edges in moderate contact without forcing.

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

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Cut the XPS Layer 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 XPS Layer than can be covered with aggregate ballast/concrete roof pavers/green roofing in the same day.

Keep XPS Layer 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.

Radmat building products

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ProTherm Quantum

XPS Layer

Product description	
Appearance top side	Grey Skin
Core	Grey colour, 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
Appearance bottom side	Grey Skin

Declared performance				
Essential Characteristics	**Performance**	**Unit**	**EN Code**	**Standard**
Ozone Depletion Potential	Zero	-	-	-
Global Warming Potential	< 5	-	-	-
BRE Green Guide Rating	A	-	-	-
Density (aim, foam only)	34	kg/m³	-	BS EN 1602
Dimensions and tolerances				
- Thickness single layer	30, 40, 50, 80, 100, 120, 130, 140, 160, 180, 200, 205	mm	-	BS EN 823
- Thickness double layer	60 (30 + 30), 70 (30 + 40)	mm	-	BS EN 822
- Width	600	mm	-	BS EN 822
- Length	1250			
Thermal Conductivity				
Declared value (1)				
- Thickness 50mm	0.030	W/mK	λ_D	BS EN 13164
80-200mm	0.031	W/mK	λ_D	BS EN 13164
Mechanical properties				
- Compressive strength at 10% compression	300	kPa	CS(10\Y)300	BS EN 826
- Design load 2% max. deflection (50 years)	130	kN/m²	CC(2/1.5/50)$_{QC}$	BS EN 1606
Hygrometric properties				
- 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
Reaction to fire	E	-	Euroclass	BS EN 13501-1
Linear thermal expansion coefficient	0.07	E	-	-
Maximum service temperature	+75	E	-	-
Capillarity	0	E	-	-
Surface	Skin	-	-	-
Edge profile	15mm shiplap edge, rebated on all 4 sides*	-	-	-

* Panel to be cut to required infill size

For further information on Radmat products and services please call **01858 410372**, email **techenquiries@radmat.com** or visit our website **www.radmat.com** **JULY 22**

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