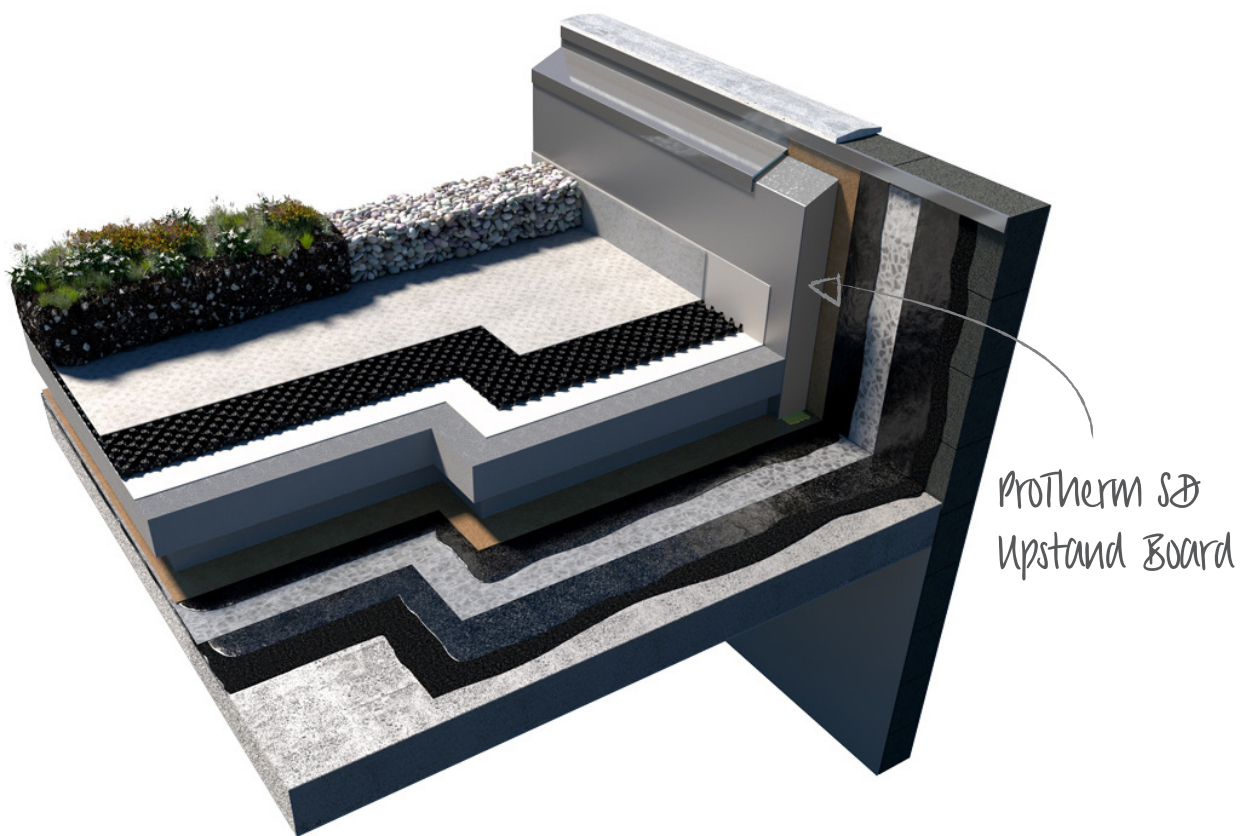


ProTherm SD Upstand Board

Product Data Sheet



ProTherm

SD Upright Insulation Board

General Information

ProTherm SD Upright Insulation Board is used to thermally insulate and protect upstand walls in inverted flat roof systems. Manufactured from a CO₂ blown extruded polystyrene foam factory laminated to a 6mm thick weather resistant high impact facing board. Available in a range of thicknesses, see declared performance table for available thickness.

The ProTherm XPS Insulation backing board has a Zero Ozone Depletion Potential (ODP), a Global Warming Potential (GWP) of less than 5, achieves a Green Guide to Specification A rating and an Ecopoint rating of 0.0482. For use with Inverted roofing waterproofing such as PermaQuik PQ6100, EshaFlex, EshaUniversal, ParaFlex and ReadySeal.

ProTherm SD Upright Insulation Board is not intended to provide a final architectural/aesthetic finish as the cementitious facing may vary in colour from batch to batch. To achieve a consistent aesthetic finish the Cement Particle Board (CP Board) facing can be primed and decorated with an appropriate masonry paint or render finish.

For a comprehensive NBS J31 specification contact Radmat Building Products.

Building Regulations

Building Regulation Approved Document B volume 1 – dwellings and volume 2 - non-dwellings compliant solution for buildings over 18m high in England, Wales and Northern Ireland.

Building Regulation Approved Document B volume 1 – dwellings and volume 2 - non-dwellings compliant solution for buildings 11m to 18m high in England, Wales and Northern Ireland.

Technical Handbook – domestic Annex 2.C and Technical Handbook – non-domestic Annex 2.F compliant solution for buildings over 11m high in Scotland.

Application on Relevant Buildings

CRITERIA	ProTherm SD Board
At a maximum height of 150mm above the roof finish/walking surface.	✓
More than 150mm above the roof finish/walking surface	x
Up to 60mm thick (insulation element only).	✓
Over 60mm thick	x
Spanning a compartment wall line	x
Adjacent to habitable space	x

ProTherm SD Upright Insulation Board is not suitable for use in inverted roof applications on Specified Attachments such as projecting open balconies, projecting enclosed balconies, recessed open balconies or recessed enclosed balconies.

ProTherm SD Upright Insulation Board is not suitable for use in warm roof applications (where the waterproofing is installed above the insulation board).

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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.

Installation Guidance

The ProTherm SD upstand board can be installed in one of two ways:

- trapping the board against the up-stand and held at the top with the capping flashing, or;
- from the top of the inverted insulation or upper layer of waterproofing in a warm roof.

Installation Instructions for Inverted Roofs from the waterproofing layer

1. When installing from the waterproofing layer should the vertical height of the SD board not exceed 3x the depth of the horizontal board then no other method of attachment is necessary.
2. Above this height apply to the face of the upstand a 20mm continuous bead of Insta Stik looping in a 'S' bond shape, with circa 300mm between the bead lines prior to compressing the SD board against the adhesive.
3. When the SD board height exceeds 750mm above the roof finishes then along with the Insta Stik a further mechanical attachment is required; a single DDS fixing (or other approved if not concrete) for each separate board fastened through the board and into the wall at least 150mm above the roof finishes or at least 75mm from the top of the board.
4. A cover flashing or capping is necessary to be fitted over the exposed top edge of the ProTherm SD upstand board.

Installation Instructions for Inverted Roofs from the top of the insulation or for warm roofs.

1. Install a continuous strip along the base of the board and also apply to the face of the upstand a 20mm continuous bead of Insta Stik looping in a 'S' bond shape, with circa 300mm between the bead lines prior to compressing the SD board against the adhesive.
2. When the SD board exceeds 600mm in height then along with the Insta Stik a further mechanical attachment is required; a single DDS fixing (or other approved if not concrete) for each separate board fastened through the board and into the wall at least 150mm above the roof finishes or at least 75mm from the top of the board.
3. A cover flashing or capping is necessary to be fitted over the exposed top edge of the ProTherm SD upstand board.

Where it is necessary to cut ProTherm SD Upstand Insulation Board to size use a TCT saw (suitable PPE must be used including a face mask to guard against dust).

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SD Upright Insulation Board

PRODUCT DESCRIPTION				
Appearance top side	Grey Face			
Core	Extruded polystyrene			
Appearance bottom side	Grey Foam			
DECLARED PERFORMANCE				
Essential characteristics	Performance	Unit	EN Code	Standard
Ozone Depletion Potential	Zero	-	-	-
Global Warming Potential	< 5	-	-	-
BRE Green Guide Rating	A	-	-	-
Sheet size* - Length	2400	mm	-	BS EN 822
- Width	1200	mm	-	BS EN 822
Tolerances	±2	-	-	-
Tolerances	Square	-	-	-
Weight (board / m²)	SD 20	24.9 / 8.65	kg	-
	SD 40	26.8 / 9.31	kg	-
	SD 50	27.8 / 9.64	kg	-
	SD 60	28.7 / 9.97	kg	-
	SD 80	30.6 / 10.63	kg	-
	SD 100	32.5 / 11.29	kg	-
	SD 120	34.4 / 11.95	kg	-
	SD 150	37.3 / 12.94	kg	-
Facing: weather resistant high impact calcium silicate fibre cement facing				
Colour	Grey	-	-	-
Thickness - nominal	6	mm	-	-
Density	1320	kg/m³	-	-
Thermal Conductivity	0.30	W/mK	-	-
Flexural Strength (average Parallel and Transverse)	18	MPa	-	-
Insulation: Extruded Polystyrene (XPS)				
Colour	Grey	-	-	-
Thickness	20, 40, 50, 60, 80 ,100, 120, 150	mm	-	-
Tolerance - Thickness	±0.5	mm	-	BS EN 823
- Width	±5	mm	-	BS EN 822
- Length	±10	mm	-	BS EN 822
Compressive strength	300	kPa	-	BS EN 826
Thermal conductivity - < 60mm declared	0.030	W/mK	λ _D	BS EN 13164
- < 60mm design	0.031	W/mK		BS EN 13164
- > 60mm declared	0.031	W/mK		BS EN 13164
- > 60mm design	0.032	W/mK		BS EN 13164
Nominal Density (foam only)	33	kg/m³	-	BS EN 1602
Water Absorption by immersion	0.07	%	-	BS EN 12087
Fire Performance	Class E	-	-	BS EN 13501-1
Coefficient of linear thermal expansion	0.07	mm/mK	-	-

*other sizes are available, contact Radmat

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.

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

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