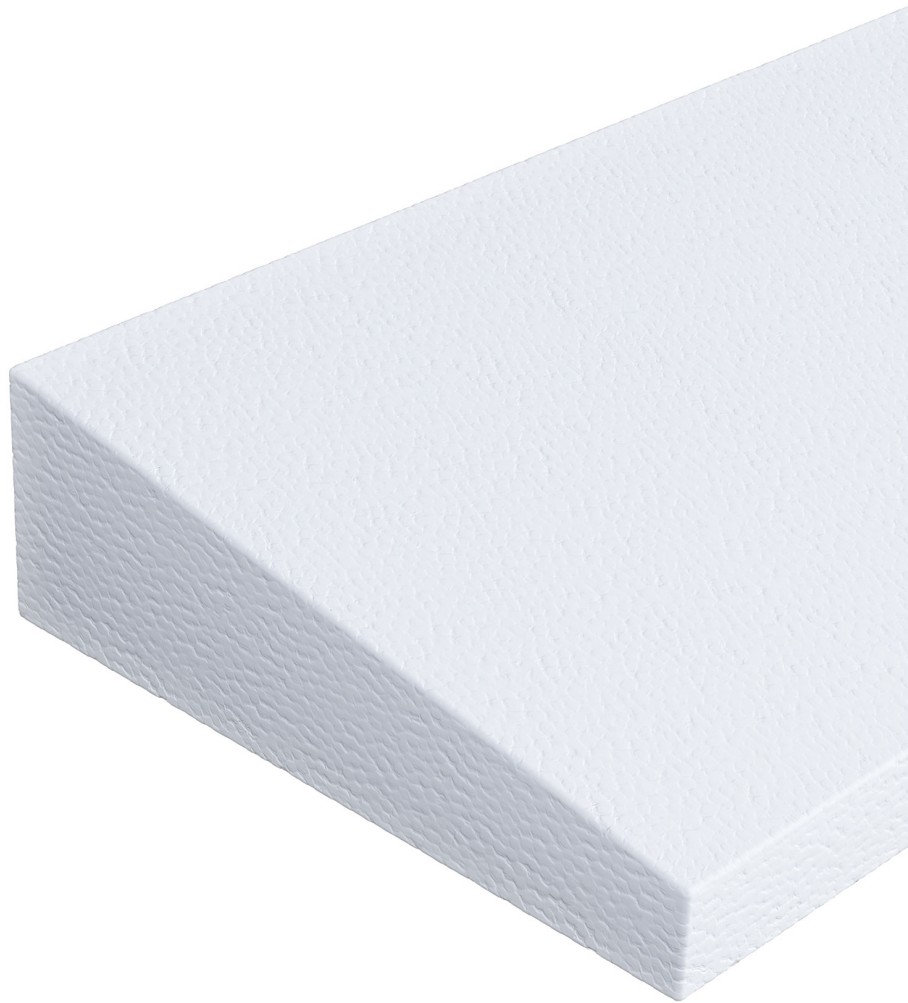


ProTherm EPS150

Product Data Sheet



ProTherm

EPS150

General Information

ProTherm EPS150 is a rigid Expanded Polystyrene (EPS) foam insulation for warm roof applications. ProTherm EPS150 roof insulation 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.

ProTherm EPS150 is compliant with BS EN 13163 *Thermal insulation products for buildings – factory made extruded polystyrene products*.

For a comprehensive NBS specification please contact Radmat Building Products.

Suitable Applications

ProTherm EPS150 is suitable for use in roofs, roof terraces, enclosed balconies over heated space and insulated walkways in both new build and refurbishment warm roof construction.

ProTherm EPS150 is not suitable for use on specified attachments such as projecting open balconies, projecting enclosed balconies, recessed open balconies or recessed enclosed balconies.

Certificates

BS EN ISO 9001:2015 Quality Management System, EN ISO 14001:2015 Environmental Management System.

Resistance to Foot Traffic

The product can accept limited foot traffic associated with maintenance operations.

Durability

The product will have a life of at least 25 years under normal circumstances.

Installation Instructions

Individual ProTherm EPS150 tapered boards should be laid in accordance with the project specific layout plan provided with edges butted and in a break bond pattern laid at right angles to the edges of the roof or diagonally across the roof. ProTherm EPS150 is bonded to the Radmat Vapour Layer or prepared existing surface with InstaStik PU Adhesive.

On metal decks edges should be laid at right angles to the corrugations. All board joints should be fully supported by the deck. When applying ProTherm EPS150 tapered boards on existing bituminous or sanded substrate the surface must be prepared in accordance with the project specific guidelines provided by Radmat.

All installation to be according to guidelines and specifications supplied by Radmat.

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.

ProTherm

EPS150

PRODUCT DESCRIPTION

Appearance top side/bottom side	White
Core	White colour, HFC free, Expanded polystyrene foam EPS (EN13163). Products comply with BS EN 13164: 2008 Thermal insulation products for buildings - factory made products of expanded polystyrene (EPS) - specification.
Edge profile	Square cut (butt jointed)

DECLARED PERFORMANCE

Essential characteristics	Performance	Unit	EN Code EN 13164	Standard
Density (aim, foam only)	38	kg/m ³	-	BS EN 1602
Dimensions and tolerances				
- Thickness	Varies	mm	-	BS EN 823
- Width	1200	mm	-	BS EN 822
- Length	1200	mm	-	BS EN 822
Thermal conductivity*	0.035	W/mK	λ_D	BS EN 12667
Reaction to fire	Class E	-	Euroclass	BS EN 13501-1
Mechanical properties				
- Compressive strength at 10% compression	150	kPa	CS(10\Y)	BS EN 826
- Design load 1% max. deflection (50 years)	70	kPa	CC(1/1.5/50)oc	BS EN 1606
- Cross Breaking Strength	200	kPa	-	
Hygrometric properties				
- Water vapour diffusion resistance factor (μ), typical	30-50	%	WD(V) -	BS EN 12086
- Vapour permeability $\partial mg [pa.h.m]$	0.009 to 0.020	%	WD(V)	BS EN 12091
Environmental properties				
- Ozone depletion potential	Zero	-	-	-
- Global warming potential	< 5	-	-	-
Other properties				
- Linear thermal expansion coefficient	0.07	mm/m·K	-	-
- Maximum service temperature	-50 to +75	°C	-	-

* Declared 90/90 value – BS EN 13163

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 techenquiries@radmat.com or visit our website www.radmat.com

30/09/24