



Roof Rafter Insulation

Insulation for pitched roofing

Stylite PlusTherm expanded polystyrene insulation is a cost effective way of insulating a pitched roof either in a new build or refurbishment application. PlusTherm has a low thermal conductivity of 0.030W/mK and for extra thermal performance full sheets can be used as an overlay prior to plasterboard being installed. Sheets are supplied in 2400x1200mm and can be cut easily with a hand saw to the exact width required between each roof truss.



Stylite Expanded Polystyrene is available in both white & Grey Enhanced PlusTherm, please see the technical specification table for more details.

Key Benefits

- Lambda from 0.030 W/mK
- Cost effective insulation
- Insulates new or existing roofs
- Simple to cut to size on site
- Lightweight quick and easy to install
- Minimal water absorption & permeability
- 100% recyclable
- Achieves BRE Green Guide A+
- No HFC's, CFC's or HCFC's

NBS Plus - Specification

Please visit our website for NBS Plus specifications and clauses www.styrene.biz

Standard Details

Please visit our website for detailed drawings reflecting typical installation of rafter insulation www.styrene.biz

Target U-Value	PlusTherm Thickness Required (mm)			
	450mm Rafter Centres		600mm Rafter Centres	
	Between Rafters	Overlay	Between Rafters	Overlay
New Build* 0.13 W/m2K	175	115	175	105
Refurbishment** 0.18 W/m2K	125	80	125	75

***Build Up:** Timber rafters (D) 200mm x (W) 50mm, breathable membrane.

****Build Up:** Existing timber rafters (D) 100mm x (W) 50mm, battens (D) 50mm, breathable membrane.

Need a quote or unique U-Value? Give us a call now on 01274 691777

Technical Specification

Features	EPS 70	EPS 100	EPS 150	EPS 200	EPS 250	EPS 300	PlusTherm	Harmonised Standard
Thermal Conductivity (W/mK)	0.038	0.036	0.034	0.034	0.034	0.034	0.030	BS EN 13163
Compressive Strength @ 10% (kPa)	70	100	150	200	250	300	100	BS EN 13163
Nominal Density (kg/m ³)	15	20	25	30	35	40	20	BS EN 1602
Bending Strength (kPa)	115	150	200	250	350	450	150	BS EN 13163
Water Vapour Permeability (mg Pa.h.m)	0.015 - 0.030	0.009 - 0.020	0.009 - 0.020	0.006 - 0.015	0.006 - 0.015	0.006 - 0.015	0.009 - 0.020	BS EN 13163
Reaction to Fire - Standard EPS	F	F	F	F	F	F	E	BS EN 13501-1
Reaction to Fire - Fire Rated EPS	E	E	E	E	E	E	E	BS EN 13501-1
Length Tolerance	L2	L2	L2	L2	L2	L2	L2	BS EN 13163
Width Tolerance	W2	W2	W2	W2	W2	W2	W2	BS EN 13163
Thickness Tolerance	T2	T2	T2	T2	T2	T2	T2	BS EN 13163
Planarity Tolerance	P5	P5	P3	P3	P3	P3	P5	BS EN 13163
Squareness	S2	S2	S2	S2	S2	S2	S2	BS EN 13163
Dimensional Stability	DS (N) 5	DS (N) 5	DS (N) 5	DS (N) 5	DS (N) 5	DS (N) 5	DS (N) 5	BS EN 13163

Dimensions	Length mm	Width mm	Thickness mm
Stylite Roof Rafter Insulation	2400	1200	25 - 400

BS EN 13163-2012+A2-2016

Classification code : Pr_25_71_63_26

Certification

We have real pride in the products we supply that is why we go above and beyond to ensure that we surpass all current regulations and offer all the relevant certifications to stand by our expanded polystyrene products. For full details of our certifications please visit our website at www.styrene.biz

Compatibility

Expanded Polystyrene is compatible with most chemicals and materials. For more information about how EPS interacts with different chemicals check [www.styrene.biz/downloads/ SPI_Chemical_Behaviour.pdf](http://www.styrene.biz/downloads/SPI_Chemical_Behaviour.pdf)

Durability

EPS is rot proof and durable, and will remain an effective insulation for the life of the construction. EPS is not affected by bacteria, moulds or fungi, and will not provide nutrient value for insects or vermin.

Environmental Safety

EPS is non-toxic, non-irritant and odourless and it does not contain CFC's or HCFC's. EPS has a Global Warming Potential (GWP) of zero and a low Ozone Depletion Potential (ODP).



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