



SIPs Insulation

Insulation for sandwich construction panels

Stylite Expanded Polystyrene can be used as the insulated center to your Structural Insulated Panels. EPS offers the best cost to performance ratio of any insulation type. With thermal conductivity from as low as 0.030W/mK our Expanded Polystyrene Boards can help designers achieve the current Building Regulation u-value requirements. We can provide completely bespoke sizes to suit your building design perfectly.



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
- Cut to match any size
- Insulates new or existing roofs
- Ideal for metal or fiber cement decks
- Lightweight
- Available with tongue & groove or shiplap
- Easy to install and cut on-site
- 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

Typical R-Values - 100mm	
EPS Grade	R-Value (m2K/W)
EPS 70	2.6
EPS 100	2.8
EPS 150	2.9
EPS 300	
PlusTherm	3.3

Typical R-Values - 150mm	
EPS Grade	R-Value (m2K/W)
EPS 70	3.9
EPS 100	4.2
EPS 150	4.4
EPS 300	
PlusTherm	5.0

Typical R-Values - 200mm	
EPS Grade	R-Value (m2K/W)
EPS 70	5.2
EPS 100	5.6
EPS 150	5.9
EPS 300	
PlusTherm	6.7

Typical R-Values - 250mm	
EPS Grade	R-Value (m2K/W)
EPS 70	6.6
EPS 100	6.9
EPS 150	7.4
EPS 300	
PlusTherm	8.3

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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 @ 1% (kPa)	70	100	150	200	250	300	100	BS EN 13163
Compressive Strength @ 10% (kPa)	21	30	45	60	75	90	30	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 12089
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	F	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 822
Width Tolerance	W2	W2	W2	W2	W2	W2	W2	BS EN 822
Thickness Tolerance	T2	T2	T2	T2	T2	T2	T2	BS EN 823
Planarity Tolerance	P5	P5	P3	P3	P3	P3	P5	BS EN 825
Squareness	S2	S2	S2	S2	S2	S2	S2	BS EN 824
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 1603

Dimensions	Length mm	Width mm	Thickness mm
Stylite SIPs Insulation	2400	1200	25 - 1200

EN 13163 : 2015 | BS EN 747 | BS EN 8217 | BS EN 826

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 an Ozone Depletion Potential (ODP) of zero.



Need a quote or unique U-Value? Give Us A call now on 01274 691 777