



**S and B EPS  
Limited**

Manufacturers of expanded polystyrene

**Insulation that exceeds expectations**



# About us

Trading for over 40 years as a privately-owned business, we are an **expanded polystyrene manufacturer** with a 10-acre site based in the north east of England. We continuously strive to meet the highest standards in product quality and customer service.

A continuation of re-investment into the business throughout the years has ensured we are a highly efficient plant with the latest technology.

With a great workforce and supply chain behind us as well as a vast experience in understanding customer requirements, we can continue to grow while always striving to ensure quality and exceptional customer service.



**1978**

The company was formed as a converter of Expanded Polystyrene.

**2003**

We gained accreditation to become an ISO 9001 registered company.

**2012**

We obtained ISO 14001 and gained accreditation for Warmbeam.

**2018**

Acquired extra land adjacent to our factory. It is now a 10 acre site.

**2020**

Investment to continue in latest cutting technology.

**1997**

Decision was taken to become a block manufacturer of EPS.

**2008**

We obtained certification to CE mark civil engineering products to BS EN 14933:2007 standard.

**2013**

Investment of over £1.5 million on new cutting technology.

**2019**

Large expansion with new buildings and machines began January with a £4 million investment.



## What is Expanded polystyrene (EPS)?

Expanded polystyrene is a lightweight, rigid, plastic foam insulation produced from solid beads of polystyrene. Expansion is achieved using a steamed process to form a perfectly closed cellular structure. These cells occupy approximately 40 times the volume of the original polystyrene bead. In a next step the material is then moulded into blocks up to 5m in height. Then converted into standard and bespoke sizes.

## EPS is 98% air

Encapsulating the air in the material allows EPS to offer lightweight, excellent thermal properties along with many other benefits detailed in our technical brochure.

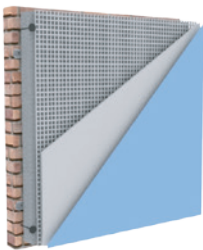




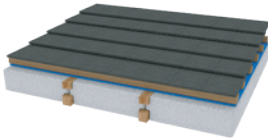
# Products

We offer a wide range of EPS products, all containing the fire retardant additive. Sizes can be bespoke to any application needs.

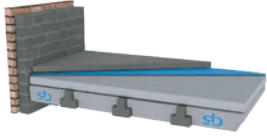
## Applications include:



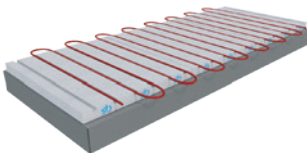
**Walls**  
External wall insulation (adhesive and mechanical) and structural insulated panels.



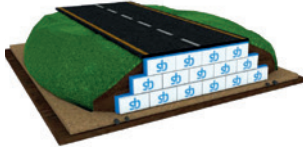
**Roofs**  
Cut to fall roof boards. Warm pitched roofs.



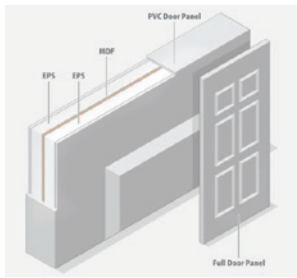
**Floor/ Warmbeam®**  
Warmbeam® Topsheet System, Warmbeam® System EPS Floorings.



**Underfloor**  
S and B Crios System. EPS Contour Board.



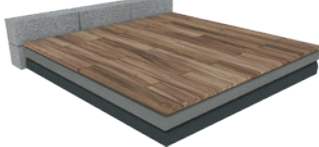
**Civil engineering**  
Noise bunds and landscaping, Road and Rail Embankments, Cylinder Void Fillers.



**PVC Doors / Special laminated panels**  
Pre-cut Door Panels. PVC Door Panels. Structural Panels.



**Custom shapes**  
Custom EPS shapes.



**Lambdatherm®**  
Lambdatherm® is a specially designed EPS with increased thermal properties for walls and floors.

## Technical

For detailed technical data sheets on all products, please visit our website or contact our dedicated technical team.

Features	Grades EPS						Lambdatherm®	
	EPS 70	EPS 100	EPS 150	EPS 200	EPS 250	EPS 500	70	ELITE
Thermal conductivity [k] value W/mk (10°C mean)	0.038	0.036	0.035	0.034	0.033	0.033	0.031	0.030
Compressive strength kPa Min (at 10% compressive strength)	70	100	150	200	250	500	70	100
Cross breaking strength kPa Min	115	150	200	250	350	750	115	150
Safe working load kPa at 1% normal compression	21	45	70	90	100	190	21	45
Vapour diffusion resistance Factor μ1	20-40	30-70	30-70	40-100	40-100	40-100	20-40	30-70
Vapour permeability omg [pa.h.m]	0.015 to 0.030	0.009 to 0.020	0.009 to 0.020	0.006 to 0.015	0.006 to 0.015	0.006 to 0.015	0.015 to 0.030	0.009 to 0.020

## Colour guide

Identification / colour coding of products manufactured to BS EN. 13163		
EPS 70E	2 x brown stripes and 1 red stripe	
EPS 100E	1 x black stripe and 1 red stripe	
EPS 150E	1 x yellow stripe and 1 red stripe	
EPS 200E	2 x black stripes and 1 red stripe	
EPS 250E	1 x violet stripe and 1 red stripe	
EPS 500E	1 x black stripe, 1 green stripe and 1 red stripe	



# Nationwide distribution

S and B EPS believes that service is one of the main fundamentals of ensuring a good working relationship with our stockists and customers. To ensure this, we operate a dedicated transport fleet of vehicles offering flexibility of load sizes from small local deliveries to 90m3 loads nationally.

We pride ourselves on offering a fast, reliable delivery service for part or full trailer loads to any part of the UK, either to stock or direct to site.



## Environment and sustainability

The environmental impact of the materials that we use in every human activity is of growing concern and importance. EPS is a light and rigid foam that is widely used in the worldwide building and construction industry as a thermal insulation.



**EPS** is  
**100%**  
**RECYCLABLE**



Fully recyclable

EPS is an excellent example of an efficient use of a natural resource as the transformation process uses very little energy. The use of EPS for thermal insulation in the construction industry means significant energy savings on heating and cooling buildings and a dramatic reduction in the emission of polluting gases. Therefore, it contributes to alleviating the greenhouse effect and acid rain.

EPS is fully recyclable and no waste is created in its manufacture.

[Ask about our waste recycling scheme.](#)



A+ green guide rating

The manufacture and use of EPS does not generate any risk to health or the environment and life cycle analytics have shown that expanded polystyrene has far less of an impact on the environment than other competitive materials for the same use.

EPS always scores well in relation to the protection of the earth's ozone layer, as neither chlorofluorocarbons [CFCs] nor hydrochlorofluorocarbons [HCFCs] are used in its manufacture, nor are these ozone-depleting components emitted whilst EPS is in situ.

Therefore EPS passes an obvious first test of its suitability for a role in environmental protection and obtains a zero depletion rating and so achieves a BREEAM credit and A+ green guide rating.



Looking after the environment

**EPS has zero Ozone Depletion Potential (ODP) and a low Global Warming Potential (GWP).**

EPS utilises a very small percentage of the global oil feedstock, only 0.1%. Its attributes and many benefits in energy and efficiency can save as much as 200 times its own resource in thermal energy savings.





Ask about our waste  
Recycling scheme

# BBA

ISO 14001  
Registered Company  
QMS CERTIFICATION 12/E013

# BBA

ISO 9001  
Registered Company  
QMS CERTIFICATION 03/Q001



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