



#### Advantages:

- Faster, more efficient single leaf construction can be used, creating additional internal space with improved thermal performance.
- Lightweight materials make this system suitable for tall constructions.
- Its closed-cell structure inhibits water absorption and it is unaffected by the normal range of climatic conditions.
- Unique thermal properties EPS is 98% air, therefore it is an excellent thermal insulator.
- **A+ green guide rating**

Expandable polystyrene boards are used as part of a render system to provide an efficient and cost effective solution. S and B EPS external wall insulation is an accepted way of adding thermal value to the outer face of most external walls. Its versatility enables it to be used with a variety of finishes including plastic weather boarding, cladding, tile hanging and reinforced render systems.

#### External Wall Insulation - Specification Data

Features	Grades EPS				Lambdatherm®	
	EPS70	EPS100	EPS150	EPS200	70	ELITE
<b>Thermal Conductivity</b> [k] value W/mk (10°C mean)	0.038	0.036	0.035	0.034	0.032	0.030
<b>Compressive Strength</b> kPa Min (at 10% compressive strength)	70	100	150	200	70	100
<b>Cross Breaking Strength</b> kPa Min	115	150	200	250	115	150
<b>Safe working load</b> kPa at 1% nominal compression	21	45	70	90	21	45
<b>Vapour diffusion resistance</b> factor $\mu$ 1	20-40	30-70	30-70	40-100	20-40	30-70
<b>Vapour permeability</b> $\delta$ mg [pa.h.m]	0.015 to 0.030	0.009 to 0.020	0.009 to 0.020	0.006 to 0.015	0.015 to 0.030	0.009 to 0.020

S and B external wall insulation when used on the external face of a masonry wall maximises the natural thermal capacity of the wall and assists in the reduction of thermal fluctuations. Given that heating and air conditioning interior rooms consumes vast amounts of energy and also accounts for approximately 80% of total energy consumption, with 30% being lost through uninsulated walls, external wall insulation offers a highly cost effective solution to reducing your carbon footprint and money expended on climate control.

S and B offer various bespoke grades for thermal wall insulation; grades such as S and B External wall, S and B Lambdatherm which is a grey, low thermal valued board, plus EPS 70E and EPS 200E all containing a fire retardant additive. Thermal values ranging from .038 down to .030 W/mk. Selected grades of EPS raw material are used for external wall applications to reduce any bowing and shrinkage of the EPS.

Identification / colour coding of products manufactured to BSEN 13163	
EPS 70E	2 x brown stripes & 1 red stripe
EPS 100E	1 x black stripe & 1 red stripe
EPS 120E	2 x green stripes & 1 red stripe
EPS 150E	1 yellow stripe & 1 red stripe
EPS 200E	2 x black stripes & 1 red stripe

#### Radius Boards:

S and B radius boards are bespoke cut boards suited to turn square edge buildings into radius arches and radius arches into square edge buildings.

#### Recycling

EPS is 100% recyclable and any left over waste we can offer a 'Waste Recycling Scheme' ask one of our team.



#### Feel free to contact us



0191 250 0818  
company@sandbeps.com

