



### Advantages of S and B Roof Boards:

- Lightweight & easy to handle
- Water resistant
- Quick and easily to install
- 100% Recyclable
- **A+ green guide rating**

We manufacture a wide range of roofing insulation products to meet the various required applications. We work in conjunction with roof engineers and design teams to offer the complete design and supply package.

A main consideration for a specifier is to decide which weather proof finish is required and then build up a compatible system to accommodate this, coupled with the need to take into account the effect of heat on the construction both during construction and after completion.

S and B EPS Roof boards are available in the following grades:

Features	Grades EPS						Lambdatherm®	
	EPS70	EPS100	EPS150	EPS200	EPS250	EPS300	70	ELITE
<b>Thermal Conductivity</b> [k] value W/mk (10°C mean)	0.038	0.036	0.035	0.034	0.033	0.033	0.032	0.030
<b>Compressive Strength</b> kPa Min (at 10% compressive strength)	70	100	150	200	250	500	70	100
<b>Cross Breaking Strength</b> kPa Min	115	150	200	250	350	750	115	150
<b>Safe working load</b> kPa at 1% nominal compression	21	45	70	90	100	190	21	45
<b>Vapour diffusion resistance</b> factor $\mu_1$	20-40	30-70	30-70	40-100	40-100	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	0.006 to 0.015	0.006 to 0.015	0.015 to 0.030	0.009 to 0.020

Other important issues involve the selection of a compatible adhesive, sealant and or mechanical fixing to bond the weatherproof membrane plus the control of water vapour. S and B EPS offer a wide range of systems that are available in a wide range of densities and thicknesses with, a square edge, shi lap or tongue and grooved edge detail.

Cut-to-falls insulation offers the ideal solution to refurbishment and ponding problems on existing buildings. Uniform thickness boards are suitable for roofs which have an existing fall incorporated and are unaffected by bacteria, fungi or molds and maintain their thermal efficiency throughout the life of the building.



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
EPS 250E	1 violet stripe & 1 red stripe
EPS 500E	1 x black, 1 green & 1 red

### Compatibility:

S and B EPS roof insulation can be adapted to suit a wide range of applications including weatherproof roof membranes.

Unlaminated expanded roof boards are suitable for use under EPDM/ butyl rubber roofing and some plastic type single layer membranes.

Where the membrane is plasticised, a separating layer of fleece is required between the polystyrene and the membrane.

Pre-felted boards are suitable where built up felt or high performance roofing felts are used with mastic asphalt roofing, but care must be taken when laying in very high ambient temperatures (technical information available on request).

### Contact Us

Feel free to drop us a call or an email and one of our helpful staff will be happy to answer any queries.



0191 250 0818  
company@sandbeps.com

