

Insulation that exceeds expectation

Floors & Warm Beam







S and B Warm Beam Suspended Floor

S and B Lambdatherm

EPS 70 Flooring

EPS 100 Flooring

EPS 150/200/250/300 Flooring

Identification Table

Specification Data

Green guide A+ rating

Our Accreditations







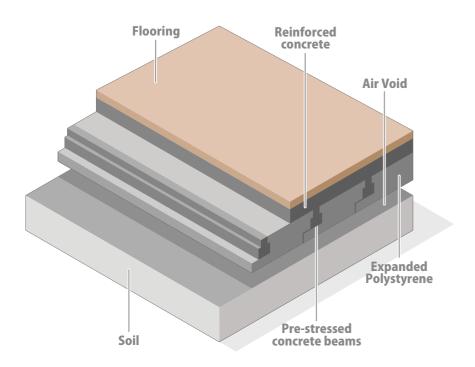




S and B Warm Beam Suspended Floor

We offer a wide range of bespoke rigid insulation modules manufactured from lightweight closed cell expanded polystyrene, which are laid between pre-stressed concrete beams finished with a self levelling concrete topping.

Given that EPS is rot, moisture and draft proof it eliminates the problems associated with part C of the building regulations relating to site preparation and resistance to contaminants and moisture.



S and B EPS suspended floor panels can be installed in conjunction with underfloor heating systems meeting the demand for more environmentally sound homes whilst reducing heating costs.

The use of S and B EPS suspended modules in conjunction with pre-stressed concrete beams are a highly effective, thermally efficient way of achieving and exceeding the thermal requirements of part L of the building regulations without the need for additional insulation.

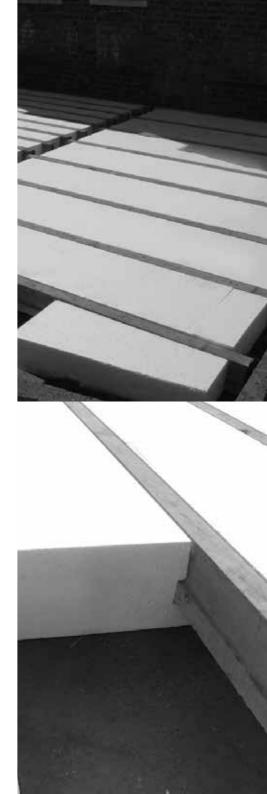
Grades

S and B EPS suspended floor modules are available in EPS 90, EPS 100, EPS 150 and Lambdatherm.

Advantages

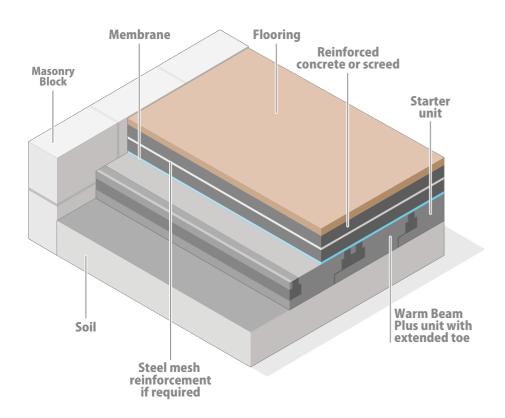
- Speed of laying application
- Thermal properties
- Interlocking panels to stop cold bridging
- Can be laid in wet conditions
- Excellent thermal properties
- Green guide A+ rating

Agrèment certificate can be downloaded from the BBA website

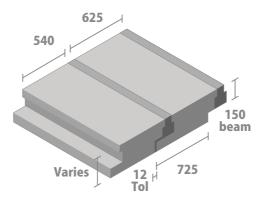


S and B Warm Beam / Warm Beam Plus

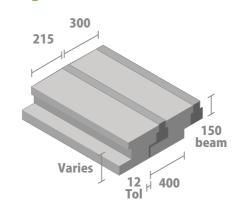
Typical installation layout



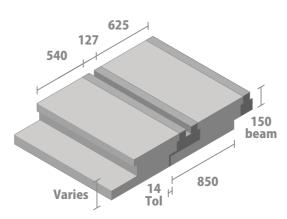
Single Max



Single Narrow



Double Max

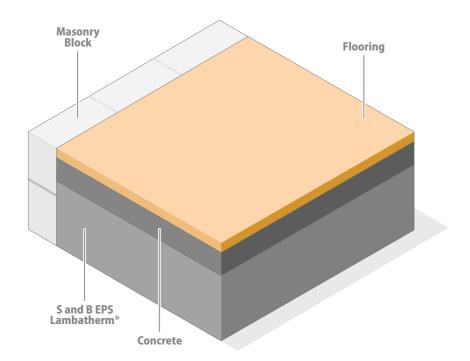




S and B Lambdatherm

S and B EPS Lambdatherm is a specially designed EPS that contains tiny chemically modified particles that reflect heat radiation and gives the material its grey colour.

These infrared absorbers and reflectors lower the thermal conductivity of the material offering a thickness reduction of about 20% against standard white EPS.





S and B Lambdatherm are designed for the insulation of ground floors in a variety of applications including domestic and commercial applications.

Features

- S and B EPS flooring offers excellent thermal performance providing savings in energy costs and higher comfort levels in dwellings.
- Maintains its thermal efficiency throughout the life of a building.

Compatibility

S and B EPS flooring is compatible with timber, cement, concrete, brick masonry and concrete beams. mortars it is compatible with bitumen based membranes but should not be used with membranes based on coal tar pitches. Plasticised PVC electrical cables can react with FPS when in direct contact. This reaction does not affect the performance of the EPS or the insulation properties of the cables. However it is recommended that PVC cables be run in conduit wherever possible.

S and B EPS Flooring has been assessed by the BBA, certificate number 02/3943 and copies of our accreditation can be

downloaded from our website. www.sandbeps.com or obtained direct from S and B FPS Limited.

Dimensions

Standard board sizes 2400 x 1200 thickness 25, 30, 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order. Tongue and Grooved boards 1200 x 600 thickness 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Applications

Cavity wall Structural insulated panels [SIPS] External wall Ground floors Pre-stressed

Grades Supplied

- S and B Lambdatherm 90: 0.030 w/mk (thermal conductivity can be obtained)
- S and B Lambdatherm 70: 0.032 w/mk (thermal conductivity can be obtained)

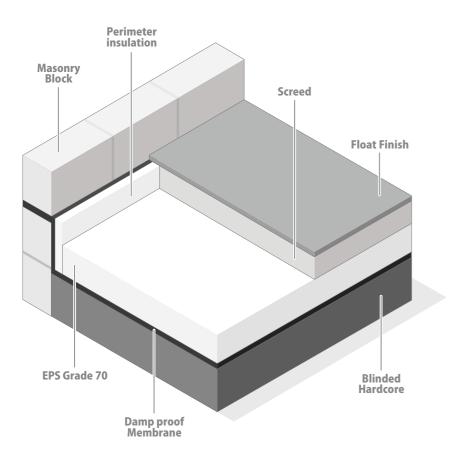
S and B EPS Flooring is manufactured from expanded polystyrene conforming to **BSEN 13163.**

EPS 70 Flooring

S and B EPS flooring boards are designed for the insulation of ground floors in a variety of applications. The product is a CFC and HCFC free, lightweight, closed cell material which is easy to install. It has a high insulation value and allows for rapid dry construction methods to be used in new and renovated dwellings and is available in either square edge or tongue and grooved profile.

Features

- S and B EPS flooring offers excellent thermal performance providing savings in energy costs and higher comfort levels in dwellings.
- Maintains its thermal efficiency throughout the life of a building.



- Highly cost effective floors.
- Rapid construction: no specialised equipment or trades required.
- Saves up to a week in building time when used in an all-dry system with flooring grade chipboard.
- Can be used under screeds, in heated floor slabs, below suspended slabs or between joists.
- Available in a variety of thicknesses.
- Non-toxic, non-irritant, moisture resistant, easy to cut and fix.
- Green guide A+ rating

Grade

S and B EPS 70 as standard for use under screeds to insulate all ground floors.

Dimensions

Standard board sizes 2400 x 1200 thickness 25, 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Tongue and grooved boards 1200×600 thickness 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Durability

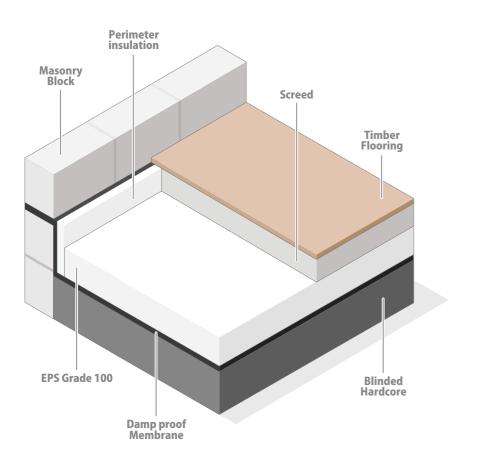
S and B EPS Flooring is moisture resistant and rot proof and is unaffected by bacteria, fungi or molds. It is non-toxic and odourless and provides no nutrients for insects or vermin.



EPS 100 Flooring

S and B EPS 100 flooring grade is recommended when high floor loadings are likely to be encountered in commercial applications and is suitable for use with either a solid or suspended ground floor and will meet the current building regulation U value requirements.

The product is CFC and HCFC free lightweight closed cell material which is easy to install. It has a high insulation value and allows for rapid dry construction methods to be used in new or renovated dwellings and is available in either square edge or tongue and grooved profile.



Features

- S and B EPS flooring offers excellent thermal performance providing savings in energy costs and higher comfort levels in buildings.
- Maintains its thermal efficiency throughout the life of a building.
- Highly cost effective floors.
- Rapid construction: no specialised equipment or trades required.
- Saves up to a week in building time when used in an all-dry system with flooring grade chipboard.
- Can be used under screeds, chipboard, in heated slabs and below suspended slabs.
- Available in a variety of thicknesses.
- Non-toxic, non-irritant, moisture resistant, easy to cut and fix.
- Green guide A+ rating

Grade

S and B EPS 100 as standard for use under chipboard and under screeds to insulate all commercial ground floors.

Dimensions

Standard board sizes 2400 x 1200 thickness 25, 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Tongue and grooved boards 1200 x 600 thickness 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Durability

S and B EPS flooring is moisture resistant and rot proof and is unaffected by bacteria, fungi or molds. It is non toxic and odourless and provides no nutrients for insects or vermin.

Compatibility

S and B EPS flooring is compatible with timber, cement, concrete, brick masonry and mortars. It is compatible with bitumen based membranes but should not be used with membranes based on coal tar pitches.

Plasticised PVC electrical cables can react with EPS when in direct contact. This reaction does not affect the performance of the EPS or the insulation properties of the cables. However it is recommended that PVC cables be run in conduit wherever possible.

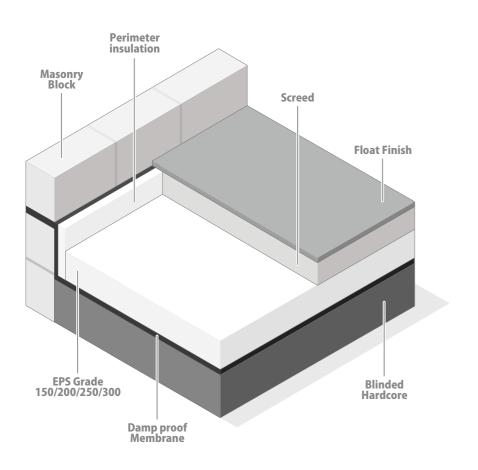
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EPS 150/200/250/300 Flooring

S and B EPS 150/200/250/300 flooring grade is recommended when high floor loadings are likely to be encountered in commercial applications and is suitable for use with either a solid or suspended ground floor and will meet the current building regulation U value requirements.

The product is CFC and HCFC free lightweight closed cell material which is easy to install. It has a high insulation value and allows for rapid dry construction methods to be used in new or renovated dwellings and is available in either square edge or tongue and grooved profile.



Features

- S and B EPS flooring offers excellent thermal performance providing savings in energy costs and higher comfort levels in buildings.
- Maintains its thermal efficiency throughout the life of a building.
- Highly cost effective floors.
- Rapid construction: no specialised equipment or trades required.
- Saves up to a week in building time when used in an all-dry system with flooring grade chipboard.
- Can be used under screeds, chipboard, in heated slabs and below suspended slabs.
- Available in a variety of thicknesses.
- Non-toxic, non-irritant, moisture resistant, easy to cut and fix.
- Green guide A+ rating

Grade

S and B EPS 150/200/250/300 as standard for use under chipboard and under screeds to insulate all commercial ground floors.

Dimensions

Standard board sizes 2400 x 1200 thickness 25, 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Tongue and grooved boards 1200 x 600 thickness 40, 50, 60, 75, 80, 90 and 100mm with non-standard sizes supplied to order.

Durability

S and B EPS flooring is moisture resistant and rot proof and is unaffected by bacteria, fungi or molds. It is non toxic and odourless and provides no nutrients for insects or vermin.

Compatibility

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S and B Flooring

S and B Identification Table

New Identification / colour coding of products manufactured to BSEN 13163							
EPS 70	2 x brown stripes						
EPS 70 E	2 x brown stripes & 1 red stripe	111					
EPS 100	1 black stripe	I					
EPS 100 E	1 black stripe & 1 red stripe	11					
EPS 120	2 x green stripes	11					
EPS 120 E	2 x green stripes & 1 red stripe	111					
EPS 150	1 yellow stripe	I					
EPS 150 E	1 yellow stripe & 1 red stripe	11					
EPS 200	2 x black stripes	11					
EPS 200 E	2 x black stripes & 1 red stripe	111					
EPS 250	1 violet stripe	1					
EPS 250 E	1 violet stripe & 1 red stripe	11					
EPS 300	2 x violet stripes	11					
EPS 300 E	2 x violet stripes & 1 red stripe	111					

S and B Flooring

S and B Specification Data

Property	Conditions			Grades					Lambdatherm		
riopcity	Containing	EPS300	EPS250			EPS120	EPS100		90	70	
Strength											
Compressive strength kPa Min	at 10% compressive strength	300	250	200	150	120	100	70	90	70	
Cross breaking strength kPa Min		450	350	250	200	170	150	115	150	115	
Safe working load kPa	at 1% nominal compression	120	100	90	70	45	45	21	45	21	
Heat											
Thermal conductivity [k] value W/mk Max	10°C mean	0.033	0.033	0.034	0.035	0.036	0.036	0.038	0.030	0.032	
Water (tabulated values)											
Vapour diffusion resistance factor µ1		40-100	40-100	40-100	30-70	30-70	30-70	20-40	30-70	20-40	
Vapour permeability δ mg [pa.h.m]		0.007 to 0.018	0.007 to 0.018 to	0.007 o 0.018 to	0.010 0.024 to	0.010 0.024 to	0.010 o 0.024 to	0.018 0.036	0.010 to 0.024 t	0.018 o 0.036	

To discover more about the benefits of S and B EPS Flooring, call today on **0191 250 0818**. Or, go to www.sandbeps.com



At S and B EPS Ltd we take real pride in finding solutions to problems, so whatever your expanded polystyrene needs, you can call on us to deliver

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Or follow us on Facebook: sandbeps/facebook and Twitter:@sandbepslimited