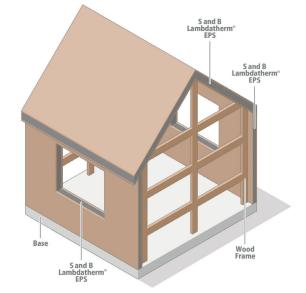


Structural Insulated Panels

Technical Datasheet



Advantages of S and B Structural Insulated Panels:

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

The way we build houses is changing, with environmental concerns and issues likely to dominate all our lives for the foreseeable future.

| Features | Grades EPS | | | | | Lambdatherm® | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | EPS70 | EPS100 | EPS150 | EPS200 | EPS250 | 70 | ELITE |
| Thermal Conductivity [k] value W/mk (10°C mean) | 0.038 | 0.036 | 0.035 | 0.034 | 0.033 | 0.032 | 0.030 |
| Compressive Strength kPa Min (at 10% compressive strength) | 70 | 100 | 150 | 200 | 250 | 70 | 100 |
| Cross Breaking Strength kPa Min | 115 | 150 | 200 | 250 | 350 | 115 | 150 |
| Safe working load kPa at 1% nominal compression | 21 | 45 | 70 | 90 | 100 | 21 | 45 |
| Vapour diffusion resistance factor µ1 | 20-40 | 30-70 | 30-70 | 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 | 0.015 to 0.030 | 0.009 to 0.020 |

S and B Structural Insulated Panels are available in the following grades:

As a result of this the building industry is changing to adapt new technologies resulting in the building of a brand new type of environmentally friendly energy efficient zero carbon housing.

One method of construction that will be at the forefront of this building design and technology is SIPS panels.

We at S and B EPS embrace this technology and are pleased to be able to offer a CFC and HCFC free EPS core material giving the required flexibility to achieve any required U value.



| 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 150E | 1 yellow stripe & 1 red stripe | | | | |
| EPS 200E | 2 x black stripes & 1 red stripe | | | | |
| EPS 250E | 1 violet stripe & 1 red stripe | | | | |

More advantages:

S and B EPS SIPS core panels are manufactured from CFC and HCFC free polystyrene and are available in the following grades EPS 70E, EPS 100E, EPS 150E, EPS 200E EPS 250E and Lambdatherm®.

S and B EPS SIPS core panels offer a wide range of sizes up to 5m in length and 1.2m in width that are able to accommodate any required thickness.

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.











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