

insulation
that exceeds
expectation



expanded
polystyrene

Product Handbook Specialist Laminated Panels



Contents

PVC Door Panels

Precut Door Panels

Caravan & Cold Store Buildings

Identification Table

Specification Data

PVC Door Panels

S and B offer precision cut panels with a standard tolerance of +/- 1mm to the laminating panel manufacturer.

Highly specialised cutting technology enables S and B to slice sheets from 5mm and above with a high quality finish coupled with high compressive strengths.

Bespoke grades for the door panel market all contain a fire retardant additive, for example EPS 100E, EPS 120E, EPS 150E and EPS 200E an ultra high density material for specialist applications (see specification data table at the rear of this guide).

Sizes up to 5000mm in length and 1200 in width can manufactured and are both CFC [chlorofluorocarbons] and HCFC [hydrochlorofluorocarbons] free, with none of these ozone depleting components being emitted during the manufacturing process or in situ.



Quality Standards



Precut Door Panels

Using the latest CNC operated machinery S and B offer a ready cut door panel supplied in all fire retardant materials.

This saves on waste EPS at the customers premises and time on the laminating line.



Caravan & Cold Store Buildings

S and B offer EPS panels for use in the caravan industry, touring and static caravans are lined with expandable polystyrene.

S and B EPS offer all grades of expandable polystyrene for this application with all containing a fire retardant additive.

S and B offer EPS panels for use in the cold store building market.

Using EPS make the panels lightweight with speed and ease of construction.



Quality Standards



S and B Specialist Insulated Panels Identification Table

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

Specification Data

Property	Conditions	Grades					Lambdatherm	
		EPS 200	EPS 150	EPS120	EPS100	EPS70	90	70
Water [tabulated values]								
Vapour diffusion resistance factor μ 1		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	0.010 to 0.024	0.010 to 0.024	0.010 to 0.024	0.018 to 0.036	0.010 to 0.024	0.018 to 0.036
Heat								
Thermal conductivity [K] value W/mk Max	10°C mean	0.034	0.035	0.036	0.036	0.038	0.030	0.032
Strength								
Compressive strength kPa Min	at 10% compressive strength	200	150	120	100	70	90	70
Cross breaking strength kPa Min		250	200	170	150	115	150	115
Safe working load kPa	at 1% nominal compression	90	70	45	45	21	45	21

For further information on these products and others within the S and B EPS range please get in touch.

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