

## Timber Faced Products

### DURABILITY

The panels will have comparable durability to that of OSB/3 to BS EN 300:2006. The product has an estimated expected service life of at least 60 years, provided the product is installed and maintained in accordance with the manufacturer's instructions.

Long life expectancy of our product will reduce energy consumption in a building over much of its lifespan.

### RECYCLING

OSB facings may be recycled as a fuel source.

### DISPOSAL

Where disposal is the only option, waste OSB and Polyurethane can be disposed of as inert solid waste.

Waste OSB can also be utilised as a fuel source.

### PANEL CORE

Polyurethane (PUR): Closed cell HCFC free, Zero ODP.

### REACH

Hemsec SIPs products and their packaging do not contain any products of very high concern as defined by REACH.

### THERMAL PERFORMANCE

Panel Thickness (mm)	100	125	150	175	200
PUR Core thickness (mm)	70	95	120	145	170
Design thermal conductivity $\lambda_D$ (W/mK)	0.030	0.029	0.028	0.028	0.028
Design thermal resistance $R_D$ (m <sup>2</sup> K/W)	2.30	3.25	4.25	5.15	6.05

The thermal conductivity  $\lambda$  of the OSB/3 skins is given as 0.11 W/mK. The thermal resistance R is 0.14 m<sup>2</sup>K/W per 15mm face.

### GLOBAL WARMING POTENTIAL

Defined as the potential for global warming that a chemical has relative to 1 unit of carbon dioxide, the primary greenhouse gas of a companies' product is now becoming recognised as propriety information when establishing the environmental impact of a completed project.

In accordance with the protocols issued by BREEAM, products which are 'blown' with blowing agents including "Air, CO<sub>2</sub>, Pentane and Isobutene" are deemed to possess a GWP rating of less than 5. Hemsec SIPs panels are blown with the inclusion of Pentane and therefore this rating applies.

### HEMSEC IN-HOUSE RECYCLING

Any leftover or waste product is recycled into other product streams, either through ourselves or is sold to one of our partnering companies for further use.