SipsEcoPanels

Product Data Sheet

OSB3-EPS Panels

PERFORMANCE

Fire

Panel Internal and External OSB has class 3 surface spread of flame to BS476 Part 7: 1987.
When Sips Eco Panels are used as part of a through-wall build up they pass the requirements of BS476 Part 21 fire resistance of load bearing walls and have achieved up to 75 minutes fire rating.
Non-load bearing walls can achieve up to a 90 minute fire rating (BS476 Part 22:1987)

EPS insulation is bromide free polymeric flame retardant, in accordance with EU REACH legislation.

Acoustic

Internal Walls

OSB Faced Panel plus 12.5mm plasterboard to each face achieved a weighted sound reduction index (SRI) 40dB (DnT,w+C;Ctr).

Party Walls (Single Panel Construction)

OSB Faced Panel plus 12.5mm Fireline and 12.5mm Plasterboard to both faces, achieved a weighted sound reduction index (SRI) 49dB

External Walls

OSB Faced Panel plus 12.5mm Fireline and 12.5mm Plasterboard to one face, achieved a weighted sound reduction index (SRI) 41dB

Structural

Loading Capacity Walls & Roofs

For Loading values please refer to the Structural Design Guide which can be downloaded from www.sipsecopanels.co.uk under the Technical Download section.

Quality & Durability

Sips Eco Panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards,
complying with !SO90001:2008 standard, ensuring long-term reliability and service life.

The panels will have comparable durability to that of OSB/3 to BS EN 300: 2006, therefore, provided the installation remains weathertight and damp-proof; a life of at least 60 years may be expected.

The long life expectancy of our product will reduce energy consumption of a building over its lifespan.

Incresed Usable Floor Space

When building a wall with Sips Eco Panel Systems SIP wall panels to achieve a U Value of 0.16W/m² the structure can be just 252mm thick.(1) In comparison a timber frame structure to achieve the same U-Value could be up to 460mm thick (2) and a full fill masonry cavity wall would need to be 453mm thick to achieve the same U-Value.

(1) Sips Eco Panels No Cavity Render System = 5mm render/12mm Knauf Aquapanel exterior/breathable membrane/194mm SIPs Eco Panel/25mm service battens/12.5mm vapour check plasterboard, 3mm skim. (2) Timber Frame Wall = 102.5mm Brick/50mm cavity/0.3mm foil faced breathable membrane/12mm OSB/280mm glass mineral wool quilt between 280mm deep studs, 12.5mm vapour check plasterboard/3mm skim. (3) Masonry Full Cavity Wall = 102.5mm brick/220mm rock mineral fibre/100mm dense block/15mm dab cavity/12.5mm plasterboard on dabs/3mm skim.

This means on a 10m x 8m 2 storey house, the SIPs Eco Panel System can yield an extra 13.8m² of usable internal space for the same building footprint when compared to the construction method above (2)

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