

i-FAST

All components of the panel are recyclable, and CE marked and BBA certified

Fire

- A1 rated (non-combustible) board and insulation for fire safety according to the Euroclass fire safety rating system and surface spread of flame rating class 0 for fire propagation

Thermal

- The panel addresses thermal bridging losses through staggering the central studs to limit the amount of framing in contact with the internal and external faces.
- U- values range from 0.28 – 0.12 W/m²·K and air tight performance is enhanced with the introduction of factory fitted VCL

Acoustic

- The sound transmission rating for a standar panel configuration is RW 56 dB.
- This can be further upgraded to RW 60-62 dB with an additional gypsum layer on one or both sides.
- When used as an external panel behind brick cladding the performance will exceed RW 70 dB

Structure

Vertical Load

The panel supports vertical loads in the same way as a standard timber frame, with load sharing between the inner and outer studs.

Horizontal Load

The outer studs are restrained by the outer board but are structurally isolated from the inner studs, bearing the wind load and transmitting it into the head and base rails.

Lateral restraint

Racking forces are transmitted from walls into the floor diaphragm and directly into abutting racking walls. Panels transmit horizontal forces into the foundations to resist overturning and sliding