



solidwood®

Build Smart. Build Natural.

Technical Facts



Energy Efficient

Simple

Solid wood has a significant thermal mass i.e. capacity to store and exchange heat, up to 2.5 times as much as concrete per kilo.

Science

Energy Efficient

Solid wood has high insulation and thermal mass meaning that less energy is required to heat, cool and ventilate a solid wood walled building. Studies conducted at Lincoln University have confirmed that the energy performance of solid wood construction is superior to that of timber frame construction. This is almost entirely due to solid wood's greater thermal mass.

Low Embodied Energy

Embodied energy refers to the quantity of energy required to manufacture, and supply to the point of use, a product, or material.

Solid wood takes little fossil fuel to manufacture. The embodied energy required to produce a wooden house is far less than a conventional light timber frame with gypsum board lining and brick or fibre cement cladding. Solid wood has the lowest energy consumption and the lowest CO₂ emissions of any commonly used building material.

Energy Generation

Byproducts of the manufacturing process can be burned cleanly to produce energy, continuing the carbon cycle without adding to the total carbon presence in the atmosphere by burning fossil fuels.

Natural Energy

Solid wood is manufactured by nature using sunshine, so very little energy is required.

