

PANELOX

systems ltd



Key Benefits

Thermal Efficiency

Solid concrete core, with sandwich insulation brings U values as low as 0.09. No thermal bridges, maximised thermal mass and thus massively reduced energy costs.

Fast Construction

Insulated walls can be built approximately 4x faster than traditional building methods. The panelised version can complete a simple family home in 3 days, from foundations to roof.

Easy to Install

Free training for self-builders and a growing network of approved installers.

Environmentally Friendly

Recycled wood provides 90% of the volume of the boards, Carbon negative production methods, drastically reduced energy consumption.



Creating hugely energy efficient buildings, extremely quickly, with minimal environmental impact

Velox is an ICF (Insulated Concrete Form) building system. Used extensively in Europe since 1956, Velox and its sister company Panelox are now manufacturing insulated boards and full panels in the UK.

Social Housing, Luxury properties, Hotels, Apartment blocks and Hospitals have all been built using Velox, the system is extremely flexible and scalable, from simple home extensions up to 21 storey buildings.

The principle component of the system are 2m x 0.5m boards constructed from recycled woodchip, with cement, providing strength and cohesion to the boards. A patented mineralising technique ensures that the boards are fireproof, and protected from humidity, mold and rodents. Velox boards provide the external and internal walls, ceiling/floor and roof surfaces, between which is sandwiched insulation and a poured concrete core.

The system maximises air-tightness, thermal efficiency and sound deadening to Passive House levels.

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