



CORNISH CONCRETE PRODUCTS LTD

## THERMOWALL PANELS

Thermowall panels offer the chance to drive down U-Values to figures that are not possible with traditional construction and yet still take advantage of the thermal mass effect.

They comprise of two layers of concrete with a layer of insulation sandwiched in between connected together with non-metallic low conductivity ties to ensure that the panels remain thermally efficient.

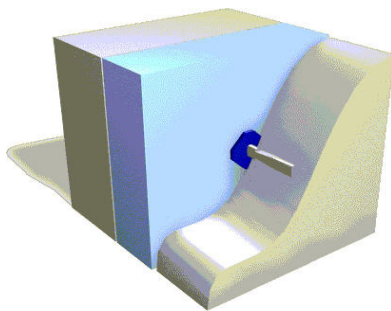
The types of ties, usually known as connectors, do not have the same restraints as blockwork ties and hence insulation thicknesses can be increased.



The environmental benefits of this type of system over the life cycle of a building are enormous and are increased further in the light of over 70% of the concrete content of the panels comes from secondary sources.

Thermowall can be used for a variety of applications including, office development, educational institutions, sporting facilities,

eco-housing, distribution centres and any form of construction which wishes to take advantage of the thermal mass effect of concrete and reduce environmental impact of the building design and operation.



Insulated sandwich panels are cast face down on large steel tilting tables, thus enabling any chosen finish to be achieved. Predrilled insulation is then placed on top of this layer and then special non-metallic ties are inserted.



Reinforcement is then placed in the mould, and concrete for the inner wall is then poured forming the other layer of the sandwich. The panels are then tilted up and lifted away. This ensures that only the minimum amount of reinforcement is necessary, reducing costs and wastage. Thermowall panel walling enables unprecedented speed in sealing the building envelope, reduces lifetime energy costs, can be left untreated, no external scaffold on the building and low maintenance costs.

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