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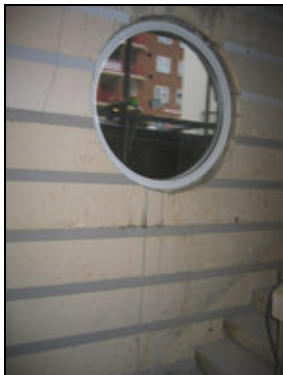
polarwall
insulating concrete formwork

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4 storey Polarwall Construction off part concrete raft foundation and ring beam. Basement level to accommodate church meeting centre with 12 apartments spread over 3 storeys. Cladding is a thin coat silicone render.

The development was constructed with a standard Polarwall core thickness of 155mm giving an overall wall thickness of 255mm (including 100mm of insulation).

This helped the developer to realise a larger percentage of the living space, which would not ordinarily be available with a traditional block construction, given the structural requirements within the ground and first floors.



Polarwall was used to provide a cost effective method of construction with built in energy performance to a U value level within the walls of $0.27W/m^2K$.

Each floor construction is using in-situ concrete cast floors giving an overall mass of $300Kg/m^2$.

Due to particularly high mass of the concrete core within the walls, all party walls have been completed using Polarwall to provide acoustic compliance with Part E of the Building Regulations.

Key facts

Core size Above ground 155mm
Core size Party wall 206mm
Insulation X25 – $0.22W/m^2K$



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