

the technology of the future
built on successes of the past.

polarwall
insulating concrete formwork

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This is one of the largest re-developments projects for social housing in Ireland. Phase 1 involves the demolition of 5 of the 14 blocks of flats built in the 1950's, and in their place the construction of 110 houses using Polarwall. Subsequent phases of the project will involve the construction of 500 homes with the provision of community, sports and commercial units.



Polarwall was chosen as the building system based on several factors. These included; energy performance, acoustics, robustness of final structure, and the ability to speed up the build process.



The project benefited from an EU backed Irish energy fund grant, due to the ability of Polarwall increasing the thermal performance in the wall structure by 20%. The X25 product was used increasing the polystyrene layer on the outer face, to achieve a U-Value of 0.22W/m²K. This attracted grant funding from the EU to the value of €2,500 per unit and over €250K to the particular phase of the project.



Polarwall was constructed off a concrete pad foundation. A mixture of open web joist floors and hollow-core planks were used together with a standard truss roof construction.



Key facts

Core size Above ground 155mm
Core size Party wall 206mm
Insulation X25 - 0.22W/m²k

A mixture of 2 and 3 stories has been completed to provide a variety of dwellings. Cladding is a mixture of a conventional masonry skin and render.

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