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polarwall

insulating concrete formwork

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Located in Cambridgeshire, this eco housing development saw the construction of 15 affordable houses destined for private and shared ownership as well as social housing rental.

Polarwall was chosen by the Home Group, one of the UK's largest providers of affordable housing based on several key factors. These included; energy & acoustic performance, incredible airtightness of the building fabric, and robustness of the final structure that would help to reduce whole life maintenance costs.



Main contractor Inspace Partnerships, formerly Willmott Dixon Housing, with whom the Polarwall contractor worked with to complete the houses, spearheaded the project. Only 2 operatives were used to complete the construction of the Polarwall houses in less than 21 weeks.



The houses were built to achieve an Eco-homes standard of 'very good', equivalent to Level 3 of the new Code for Sustainable Homes.

Polarwall was constructed off a concrete strip foundation utilising the Hanson Jetfloor for the ground floor structure and open web joist floors for the first floor. Standard roof trusses were also used.



Key facts

Core size	Above ground 155mm
Core size	Party wall 206mm
Wall U Value	0.27W/m ² k

The 2 story buildings have been completed to provide a variety of occupancy dwellings. Cladding is a mixture of a conventional masonry, rendered sections and tile hanging to interact with the local vernacular.

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