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insulating concrete formwork

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This basement was constructed in a short time by one of Polarwall's specialist basement contractors. A slab was constructed on two levels to a thickness of 300mm, which was easy to accommodate with the Polarwall product.

Steel reinforcement was taken out of the slab to provide starter bars for the wall mesh to be tied to. The ground surrounding the basement provided good drainage. Reinforcement provision within the wall was therefore a single layer of A393 mesh.

The walls were poured with a standard concrete mix design with a minimum compressive strength of RC35.



**Key facts**  
Core size    Basement wall 251mm  
Insulation    Standard – 0.27W/m<sup>2</sup>K

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Waterproofing the basement consists of an external tanking membrane, which is applied directly to the Polarwall face. This is protected during the backfill by proprietary protection boards. As with all basements, a belt and braces approach to waterproofing should be made. Therefore an extra line of defence was added with the inclusion of an internal drainage channel along the inside perimeter base of the basement. Should moisture get through the membrane then this would be channelled to a sump where it would be pumped clear of the building.

The contractor added, *"I was extremely impressed with Polarwall, the ease and speed at which we built the structure dramatically reduced our build times and costs".*

