



CORNISH CONCRETE PRODUCTS

**HIGHWOOD HOUSE
BASEMENT, ALTON** ➤



CCP designed, supplied and installed the entire basement for this contract in less than one week on site using its “double wall” precast/insitu concrete hybrid system which offers all of the advantages of precast concrete with the robustness that insitu concrete affords under the ground. As can be seen, the natural quality of finish is good enough to receive direct decoration if required. This would not be possible to achieve by any other construction method.

Double wall units comprise of two precast leaves, typically 60mm thick, connected with steel lattice girders. The product is relatively light as there is a cavity between the leaves which is filled with insitu concrete.

When the unit is installed, it is temporarily propped and connecting steel to other adjacent double wall units is placed in the cavity prior to concreting. Once the concrete has hardened, a single monolithic element is created. The process is fast and avoids expensive on site shuttering as the leaves act as permanent reinforced formwork.

IMAGE 1:

Detail showing cast-in water bar and starter bars with double wall over

IMAGE 2:

Double wall units, placed and propped

IMAGE 3: Double wall units filled with insitu concrete

In basement construction, excellent waterproofing is essential. The necessary waterstops and membranes are incorporated into the design. Furthermore, CCP are also able to offer a warranty for the installed basement, as well as a pre-insulated option. For further details, please contact our office.

IMAGE 2:



Advantages of Basements:

- / More living space
- / Enhanced property values
- / Better utilisation of building land
- / Improved use of sites with difficult sloping land

IMAGE 3:



Environment and Quality

CCP takes its environmental responsibilities very seriously and is accredited with the Environmental Management system ISO14001. The company is also a founder signatory of the British Precast Sustainability Charter, and one of the first companies in the UK to be accredited with BES6001, The Code for Responsible Sourcing achieving a "Very Good" status across its entire product ranges.

From utilities to road, rail and marine applications, concrete is an essential part of these solutions and with at least 80% secondary product in every cubic metre of concrete.

CCP's Ecocrete provides the most environmentally friendly structural precast concrete in the UK. Indeed, the majority of CCP's concrete for this sector will be manufactured using Ecocrete "Plus" with an overall secondary content of at least 85%.

Furthermore, by choosing a precast concrete solution, other potentially harmful environmental impacts such as waste and contamination of the water course can also be avoided.

CCP is also accredited with the Quality Management System ISO9001.



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