

B&M Retail Unit

Mablethorpe

Rigid Inclusions delivered a cheaper, lower carbon and programme-saving alternative to driven piling for a retail unit.



The project

The construction of a retail unit on the edge of Mablethorpe.

The challenge

The main challenge was to provide a solution through the very low strength strata of the Tidal Flat Deposits which extended to depths of circa 14m.

The solution

RIs were installed to achieve a bearing capacity of 125kN/m² for the foundations and 15kN/m² for the floor slabs. A fully displacement cast in-situ installation method was employed to minimise waste and maximise column capacities. The column design was locally adapted to accommodate the need to build over a new drain run. During the course of the installation works, Keller trimmed the slab columns so that these areas were made ready for the construction of a ground bearing slab. For the foundations, the columns were easy to excavate which allowed the follow-on groundworks to progress quickly. The overall solution offered our client significant cost and time savings over a precast piling option.

Project facts

Owner(s)

LB Mablethorpe

Keller business unit(s)

Keller UK

Main contractor(s)

Lindum Group

Solutions

Bearing capacity / settlement control

Markets

Commercial

Techniques

Rigid inclusions

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