Science Park restaurant

Sandwich, Kent

Keller provided a low vibration fully displacement solution for a fast food restaurant on a site where there was a danger of forming a pathway to contaminate an aquifer below the surface. The solution also delivered a lower carbon alternative to driven piling.

The project

The construction of a single storey restaurant building on the site of a large Science Park development.

The challenge

The main challenge was to provide a solution through the very low strength strata of the Tidal Flat Deposits while avoiding the formation of a pathway for contamination to the aquifer below.

The solution

RIs were installed for the foundations to achieve the required bearing capacities of 100kN/m2 for the foundations and 20kN/m2 for the floor slabs. A fully displacement cast in-situ installation method was employed to minimise the environmental impact of the works and secure the acceptance of the Environment Agency. Our proposals also offered our client significant time savings over a precast piling option as the foundations could be excavated while the concrete was fresh and a ground bearing slab could be cast onto the surface of the treated soils.

Project facts

Owner(s)
EG Group

Keller business unit(s)
Keller UK

Main contractor(s)
McFadden Building & Civil Engineering Ltd

Solutions
Bearing capacity / settlement control

Markets
Commercial

Techniques
Rigid inclusions

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