

West Coventry Academy

Coventry

Working closely with Curtins Consulting, Keller delivered a low carbon foundations solution in line with the UK government's energy consumption and net zero targets. Works were completed in less than four weeks.



The project

The construction of a 1500-place academy to replace the existing 50+ year old facility. The new school comprises a three-storey teaching block and two-storey sports hall.

The challenge

To provide a ground improvement solution through variable Glacial soils to accommodate relatively high line loadings of up to 550kN.m for the retaining walls, while offering the greenest feasible foundation solution in support of the government's energy consumption and net zero targets.

The solution

VSCs were selected to achieve a bearing capacity of up to 150kN/m² and facilitate the construction of shallow foundations and ground bearing floor slabs and swimming pools.

Project facts

Owner(s)

Department for Education

Keller business unit(s)

Keller UK

Main contractor(s)

Bowmer & Kirkland

Engineer(s)

Curtins Consulting

Solutions

Bearing capacity / settlement control

Markets

Institutional/public

Techniques

Vibro stone columns

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