Case study

Extension to Kingswood Academy

A new Secondary School extension building constructed to the rear of the award-winning Kingswood Academy. The building offers an additional 150 spaces for students and features a glazed ground floor cafeteria space with undercroft.

The structural engineering challenges stemmed from the open spaces on the ground floor, which were designed to accommodate a glazed cafeteria area, offering limited options for bracing. This resulted in lateral stability issues that were addressed by employing a diaphragm system to transfer forces back to stability cores located near areas of vertical integration at one end of the building.

The temporary stability of the structure was also considered, with temporary systems being designed and detailed by the AWP Structures Team to ensure that the structure remained safe and stable throughout the process of the build.

Support on this project in the form of our Geotechnical, Civil and Structural specialisms to deliver a BREEAM 'Very Good' facility.

Alan Wood & Partners

Location:
Hull

Client:
Esteem, Sewell & Hull City Council

Architect:
AHMM

Value:
£4.4m

Civil Engineering | Structural Engineering | Geotechnical and Geoenvironmental | Modern Methods of Construction (MMC)

Engineer / Manage / Deliver /