

Case study – DfE

Rivers Academy, West London

New 3-storey high school building at Feltham, West London.

1. Project Context

The scope of works comprises construction of a new 3 storey teaching block, with sports hall, along with alteration/improvements to the existing car park, to provide a more pedestrian friendly entrance to the new school.

2. Design Objectives

The project aims to deliver a new and modern facility to increase staff and student wellbeing using a mixture of on-site and off-site construction methodologies to best serve the structural requirements of the different teaching spaces provided.

3. Evidence of Compliance

Working with the design team, school staff and local council, Alan Wood and Partners (AWP) has helped ensure the school is suitable to meet the needs of its students and the new development meets the DfE standards. The development prioritises sustainable materials and construction methods where possible, aiming to minimize its environmental impact both locally and in the broader context by adopting "PV panels" on the roof and the building achieves an exceptionally low heating demand.



Location:
West London



Client:
Bowmer & Kirkland Ltd.



Architect:
Stride Treglown



Value:
£45m



Civil
Engineering

Structural
Engineering

Geotechnical and
Geoenvironmental

Modern Methods
of Construction
(MMC)

Engineer/
Manage/
Deliver/

Case study – DfE

4. Innovation & Best Practice

The design solution addresses several critical issues, including the use of a steel primary structural frame to facilitate rapid on-site construction. Overall lateral stability was achieved with a combination of vertical bracing where this can be hidden within walls. The floors of the building were precast hollowcore concrete, designed to act compositely with the steel frame.

A 75mm non-structural topping/screed is provided to achieve a level surface to receive finishes to ensure vibration resistance and acoustic robustness.

5. Stakeholder Engagement

AWP produced design calculations for traditional build structures, as well as drawings and 3D modelling for the build and the pad foundation.

6. Visual & Technical Evidence

AWP provided technical drawings, 3D revit models and design calculations for substructure, superstructure, below ground drainage and external works.

7. Outcomes & Impact

The new build school provides a comfortable, safe working environment and supports the wellbeing of staff and students with enhanced needs. The project is ongoing with planning granted ready to start construction in 2026.



Location:
West London



Client:
Bowmer & Kirkland Ltd.



Architect:
Stride Treglown



Value:
£45m



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

Engineer /
Manage /
Deliver /