

Ormiston Horizon

Stoke on Trent, England



Metal Technology System 4-35 Hi+ windows have been installed at Stoke's newest school. The £22m Ormiston Horizon Academy opened its doors to over 1000 pupils this term following a two year project to replace the James Brindley Science College under the Building Schools for the Future programme.

Designed and constructed by Balfour Beatty, the purpose- built accommodation provides exceptional resources for students and the local community in a two-storey, four wing building housing various basic and specialised classrooms.

System 4-35Hi+ High Performance thermally enhanced casement windows offer the designer a wide and diverse range of profiles that will provide structural integrity, weather performance, thermal enhancement and security. The Thermal range is designed to aid compliance with the latest thermal requirements of the current building regulations. However in conjunction with the correct glass specification these windows can achieve U values below 1.0W/m2K.

Polyamide thermal break profiles have been specifically designed to minimise heat transfer across the window profiles and work in conjunction with specially designed thermal gaskets and foam profiles. The combination of all these products reduce radiated heat loss across the air cavities and thermal transmittance within the window profiles to provide this high level of thermal enhancement.

This system has passed PAS 24, "Specification for Enhanced Security Performance" as generally accepted on Secure by Design products, it has a BREEAM sustainability rating A and a WER rating of A+.

Design

Balfour Beatty

Contractor

Balfour Beatty

Fabricator

Leay

Value

£550K

Systems Used

System 4-35Hi+



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