



SEMH School Bucknall, Stoke-on-Trent

Completed 2023



In partnership with Tilbury Douglas, we recently completed the design, manufacture, and install of a full Timber Frame package for a new school in Bucknall, Stoke-on-Trent. This state-of-the-art facility was built on the former Abbey Hill School site on Greasley Road and is specifically designed to support young people with Social, Emotional, and Mental Health (SEMH) needs.

The school has been designed to accommodate up to 70 pupils aged 11 to 16, offering a specialised learning environment tailored to SEMH students. It also provides support for those with additional secondary needs, ensuring inclusive and adaptable education for all attendees.

Sponsored and managed by the Manor Hall Academy Trust, an organisation well-regarded for its expertise in specialist education, the project represents a significant investment in the region's educational infrastructure.

A key element of the build was the use of our low-carbon, fire-rated external timber frame walls –developed in collaboration with fermacell®. This solution was specified to meet the Department for Education's (DfE) strict criteria for energy efficiency, sustainability, and modern learning environments.



Pre cast concrete floors



Timber Innovations engineered, designed, manufactured and installed the complete insulated superstructure external walls, internal walls, precast concrete floors and roof cassettes. The construction incorporated traditional Timber Frame stud work, encapsulated with 15mm fermacell® boards and filled with A1 mineral fibre insulation. By harmonising proven building components in a controlled manufacturing environment, the project delivered a high-quality, efficient structure from wall to floor to roof. This method not only streamlined construction but also ensured compliance with fire safety and sustainability standards.

We are particularly proud to have been selected by Tilbury Douglas again for this project having recently completed Wednesfield Technology School, a Passivhaus exemplar school.

This innovative and collaborative approach has led to our further involvement in the development of OSKOP - Open-Source Kit of Parts, a concept created from the need to rationalise and improve the design and delivery of modern school buildings. OSKOP represents a forward-thinking build model for educational facilities, focused on quality, fire safety efficiency, and sustainability.



Internal - factory applied airtightness

Born out of a practical need in the education sector, OSKOP offers a new way to build: one that balances performance, affordability, and sustainability without locking clients into a single supplier or IP model. Timber Innovations is part of the Wyckham Blackwell Group of Companies that has 5 regional specialist Timber Frame companies able to offer OSKOP nationwide and continues to support this valuable build tool to further enhance education and commercial build projects.



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