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Cheadle Hulme School

Purpose-Built Pre-School Facility

 **Client:** Cheadle Hulme School

 **Sector:** Education

 **Location:** Cheadle, Cheshire

The Brief

Cheadle Hulme School required a purpose-built pre-school facility to provide a modern, high-quality learning environment for its reception year pupils. Located within the school's extensive grounds, the building needed to provide flexible teaching accommodation, dedicated welfare facilities and full accessibility while overcoming challenging site constraints and the proximity of an adjacent railway line.

Elite Systems delivered a complete turnkey solution, including design, off-site manufacture, groundworks, drainage, installation and commissioning. The project incorporated specialist acoustic construction, contemporary Western Red Cedar cladding, a feature glass entrance canopy and comprehensive external works to create an attractive, energy-efficient building that complements the school's existing campus while providing an exceptional environment for early years education.

 **Project:** Purpose-Built Pre-School Facility

 **Location:** Cheadle, Cheshire

 **Project Cost:** £243,053.63

 **Timeline:** 14 Weeks from Receipt of Order to Practical Completion

 **Key Features:** 117m² pre-school facility, 71m² reception classroom, kitchen, lobby, washrooms, accessible WC, Western Red Cedar cladding, feature glass entrance canopy, 60dB acoustic construction, pumping station, CCTV, standalone fire and intruder alarms, acoustic ventilation and complete turnkey delivery.

The Main Features

Inside

- ✓ **Spacious Reception Classroom-** A bright 71m² open-plan classroom provides a flexible learning environment designed specifically for reception pupils, encouraging both individual and group learning activities.
- ✓ **Acoustic Learning Environment-** Specialist acoustic wall construction, additional plasterboard, acoustic ventilation and enhanced insulation achieve a 60dB acoustic rating, significantly reducing noise from the adjacent railway line.
- ✓ **Dedicated Early Years Facilities-** The building incorporates a kitchen, lobby, children's washrooms, accessible WC and supporting welfare facilities to meet the day-to-day requirements of an early years setting.
- ✓ **Accessible Design-** Barrier-free access, accessible sanitary accommodation, anti-finger-trap doors and durable internal finishes provide a safe, inclusive environment for pupils, staff and visitors



Outside

- ✓ **Contemporary Architecture-** Western Red Cedar cladding, parapet walls and powder-coated aluminium glazing provide a modern architectural appearance that complements the wider school campus.
- ✓ **Feature Entrance Canopy-** A contemporary glass entrance canopy creates a welcoming focal point while providing weather protection for pupils, parents and staff.
- ✓ **Safe External Learning Environment-** New fencing, gates, CCTV and carefully planned access routes provide a safe and secure environment suitable for young children.
- ✓ **Complete Turnkey Delivery-** Elite Systems delivered the full external package including foundations, drainage, pumping station, service connections, ramps, steps and landscaping, providing a complete ready-to-use facility.



Challenges

The project presented numerous challenges, which we addressed with determination and creativity. Some of the key obstacles included:



Railway Noise

Located adjacent to a busy railway line, the building required specialist acoustic construction capable of achieving a 60dB sound reduction to create a quiet learning environment without compromising natural daylight or ventilation.



Restricted Access

The final building location could not be reached using conventional transport methods. Modules were transferred onto smaller trailers before being craned over existing trees and manoeuvred into position within the school grounds.



Tree Protection

Existing mature trees surrounding the site restricted access and required careful planning of drainage routes, deliveries and crane operations to minimise disturbance throughout construction



Acoustic Construction

Enhanced wall construction, additional plasterboard, acoustic inline fans and upgraded rear wall construction were incorporated to achieve the required sound insulation while maintaining occupant comfort.



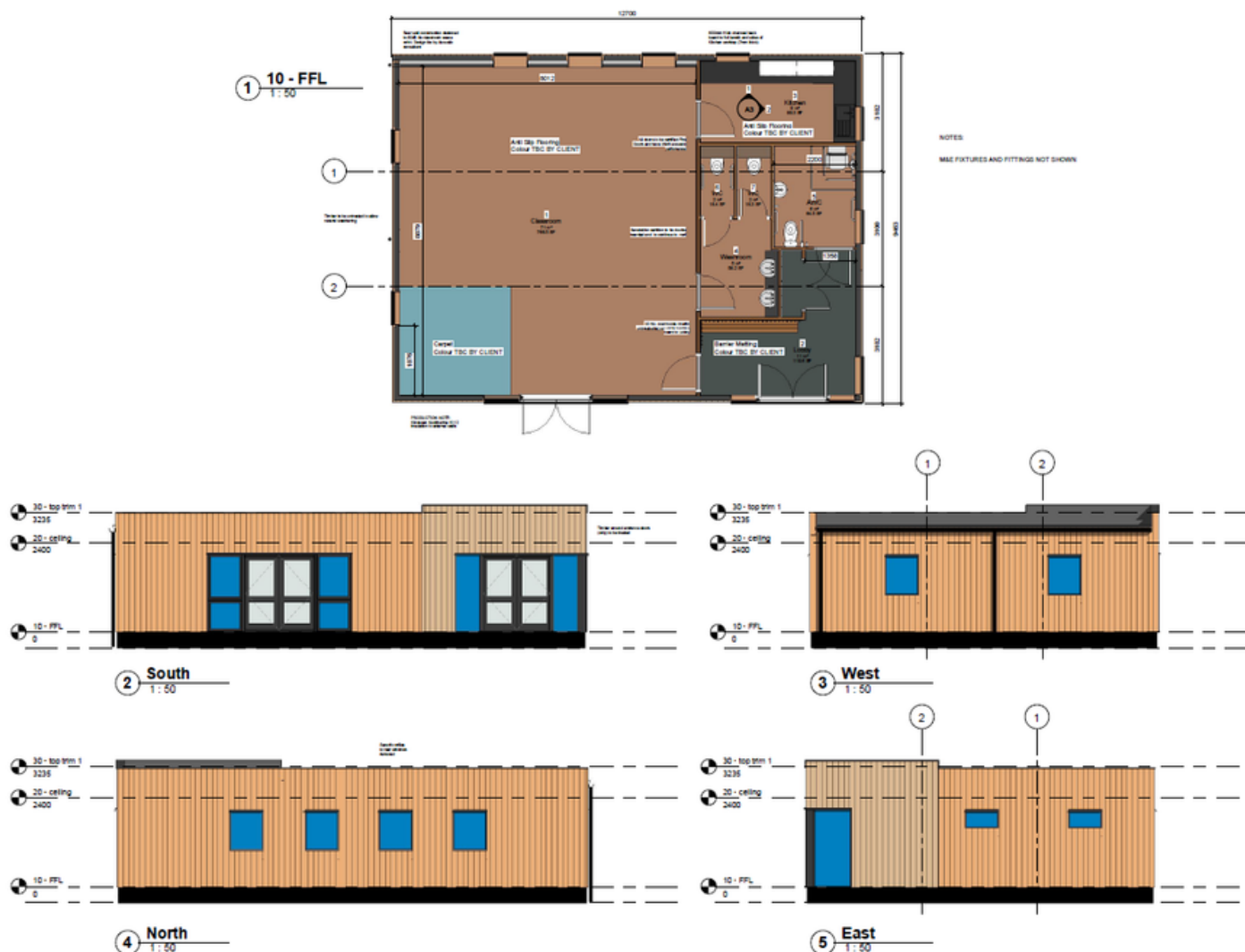
Service Installation

A new pumping station together with dedicated service connections, standalone fire alarm, intruder alarm and CCTV systems were integrated into the building to provide a fully independent facility.



Site Logistics

Groundworks, manufacture, drainage, installation and external works were carefully coordinated to maintain programme certainty and achieve handover within the planned 14-week delivery programme.



The Design



Designed specifically for early years education, the building combines contemporary architecture with specialist acoustic performance to create a bright, welcoming and practical learning environment. Every aspect of the design was developed to maximise teaching space while overcoming the unique site constraints presented by the railway line and restricted access.

Designed Around Learning

- ✓ 71m² reception classroom
- ✓ Entrance lobby
- ✓ Children's washrooms
- ✓ Accessible WC
- ✓ Staff facilities
- ✓ Large glazed elevations
- ✓ Durable internal finishes

Built for Performance

- ✓ Western Red Cedar cladding
- ✓ 60dB acoustic wall construction
- ✓ Feature glass entrance canopy
- ✓ Aluminium curtain walling
- ✓ Acoustic inline ventilation
- ✓ Standalone fire and intruder alarms



The Results

The completed Cheadle Hulme Pre-School has provided the school with a high-quality permanent facility that delivers exceptional teaching accommodation while successfully overcoming significant site and acoustic challenges. The bright classroom, specialist welfare facilities and contemporary architectural appearance provide an inspiring environment for both pupils and staff.

Delivered through Elite Systems' complete turnkey approach, the project combined off-site construction, specialist acoustic engineering and carefully coordinated site logistics to create a modern, energy-efficient educational building. The finished facility demonstrates how modular construction can successfully deliver complex architectural and technical requirements without compromising quality, programme or performance.

“

Elite Systems delivered a high-quality facility that exceeded our expectations. The new building has transformed our setting and provides the perfect environment for our children to learn and grow.”

Cheadle Hulme Pre-School
School Leadership Team

