

Testimonial

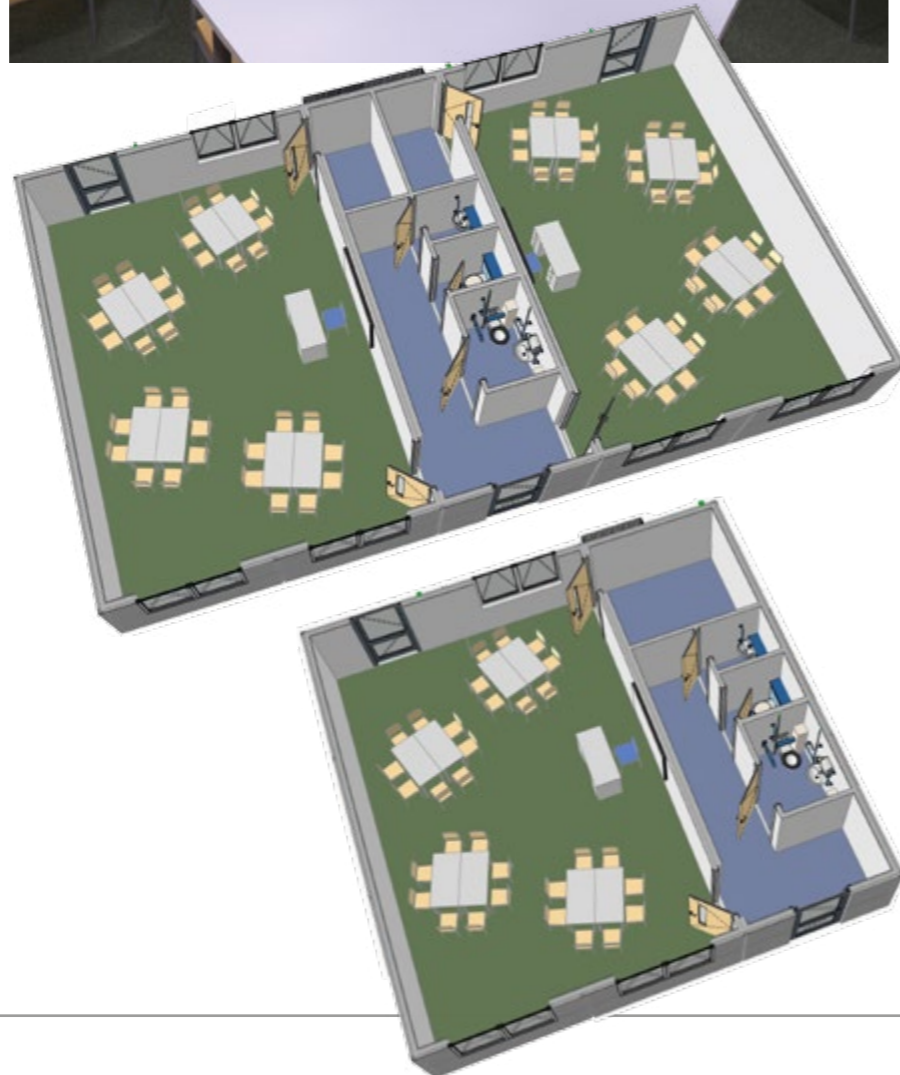
“The team were very professional and communicative. They responded quickly, courteously and effectively when issues arose during installation.

“SBC had a requirement for two units on two schools simultaneously, requiring a very short turnaround from request. The schools had different ground conditions, features and access that were all tackled appropriately, with required pre-construction information. The installation was very swift, but correct. In terms of temporary modular units, the standard of unit was high.

“McAvoy Group is on a framework for SBC to provide temporary modular accommodation. I do also appreciate the success of any project is reliant upon the individuals involved. However, based upon the team we worked with, then yes, I would consider McAvoy for future projects even if SBC did not have a framework in place.”

**Julie Burke**  
PROJECT MANAGER, SLOUGH BOROUGH COUNCIL

Standard Hirefleet Classroom



Think Smart. Build Smart.



Overview

- Time and cost predictability
- Reduced energy costs
- Lower carbon emissions
- Faster time to completion
- Flexible building solution
- Highly engineered quality finishes



**CleverClass**  
The energy efficient modular school building

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## CleverClass

CleverClass is a range of innovative, energy-efficient modular buildings made specifically for the education sector. Constructed off-site using the latest materials and technologies, these buildings are super-efficient in comparison to other offerings in our sector.



McAvoy are market leaders in the provision of permanent and temporary modular and offsite solutions for the education sector. We have served this market for over 40 years and are continually innovating our product to meet the need for energy efficient, comfortable, safe buildings.

Our CleverClass building is a convenient choice for the education sector, providing a cost-saving solution while delivering the right space and facilities for classroom demands.

Using materials that exceed the energy performances of traditional buildings, the CleverClass modular build offers significant economical, environmental and social benefits.

Because the product is fabricated offsite, quality control is stringent, health and safety standards are tight and high quality is consistent. Delivery times are quick too and allow installation to be completed with minimal disruption to the school environment.

The CleverClass build's environmental and economical composition makes it the perfect choice for education authorities working with tight budgets.

Increased levels of air tightness, improved wall, floor and ceiling insulation, air sourced heat pump systems, dual flush toilets and PIR sensor lights collectively ensure energy usage is kept to a minimum with a typical Energy Performance Rating of B31. Carbon emissions are lower too, at a rate of 18kg CO<sub>2</sub>/m<sup>2</sup> meaning, collectively, the latter properties can mean average energy costs of £239.82 per year based on a double classroom with an air sourced heat pump.

Available in standard single classroom with toilets and standard double classroom with toilets formats, the CleverClass' flexibility means unforeseeable population changes can also be accommodated quickly should that demand the expansion or reduction of a school site.

# Why CleverClass?

<p><b>Time and cost predictability</b></p>	<p><b>Environmentally sustainable construction techniques</b></p>	
<p><b>Faster return on investment</b></p>	<p><b>Improved Health and Safety during construction</b></p>	<p><b>Faster time to completion</b></p>
<p><b>Highly engineered quality finishes with fewer defects</b></p>	<p><b>Building CO<sub>2</sub> Emissions Rate:</b></p> <p style="font-size: 1.5em; font-weight: bold;">18 Kg CO<sub>2</sub>/m<sup>2</sup></p>	<p><b>Typical Energy Performance Rating: B31</b></p>
<p><b>Lower carbon emissions</b></p>	<p><b>Typical annual energy costs:</b></p> <p style="font-size: 1.5em; font-weight: bold;">£239.82*</p> <p><small>* Based on double classroom with air sourced heat pump.</small></p>	<p><b>Flexible building solution - can be relocated &amp; extended</b></p>

## Annual Energy Cost Comparison



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## Standard Hirefleet Classroom

**EXTERNAL WALL PANELS**  
 External face: Microrib effect, plastisol steel faced insulated panel, colour Goosewing Grey  
 Insulation: Additional insulation between timber studs  
 Internal face: Vinyl faced plasterboard, colour Moonstone  
 Fire Rating: 60mins from in to out  
 'U' Value 0.23W/m<sup>2</sup>K

**INTERNAL WALLS**  
 Grade C16 timber studs @ 400mm Ctrs  
 Insulation to suit acoustic requirement  
 Vinyl faced Plasterboard both sides, colour Moonstone  
 Fire Rating 60mins  
 Acoustic Rating 42dB

**ROOF & CEILING**  
 Profiled insulated composite roof Panel  
 Vinyl faced plasterboard, colour white  
 'U' Value 0.20W/m<sup>2</sup>K

**ELECTRICAL INSTALLATION**  
 35W High frequency surface mounted luminaires c/w Prismatic Diffuser and Dimmable Ballast in classroom areas  
 Recessed LED Downlighters in corridors & WC's  
 Occupancy sensors  
 Emergency lighting  
 Programmable external lighting  
 Power outlets with DDA Colour coding  
 Multi Compartment PVC Trunking  
 Wall mounted data cabinet c/w patch panel  
 Cat 5e Data Points  
 Stand Alone Fire Alarm  
 Thermostatically Controlled electric heating

**FLOOR**  
 Plywood floor deck  
 'Burmatex' Carpet tiles to classrooms  
 Polyflor standard vinyl and Polysafe non slip flooring to lobby, stores and toilet areas  
 Insulation laid between galvanised steel joists  
 'U' Value 0.24W/m<sup>2</sup>K

**MECHANICAL INSTALLATION**  
 Back to wall WC Pan with concealed cistern  
 6/4 litre dual flush with contemporary flush plate  
 Shires 'Sorrento' wall mounted washbasin  
 DDA Compliant accessible WC with Doc M Pack  
 Ventilation to WC's S&P inline fans c/w external louvre backdraft shutter and occupancy sensor

**WINDOWS**  
 2000mm x 1000mm UPVC Frame, colour white  
 Thermally broken beaded internally  
 Clear glazing - 4/16/4 argon filled K Glass, Low E Coating  
 100mm Restrictors  
 Trickle vents in frame  
 'U' Value <1.8W/m<sup>2</sup>K

**OPTIONAL EXTRAS**  
 Stainless Steel sink unit with drainer set in worktop with cupboards  
 Twin split air conditioning with remote control and timer  
 Acoustic ceiling tiles  
 Electrically operated hand dryers  
 Vertical window blinds  
 Intruder Alarm  
 Linkage of fire alarm to existing school system  
 Electronic door access control  
 Jackpad Foundations

**EXTERNAL DOORS**  
 1190mm x 2095mm PPC Aluminium Frame, colour Merlin Grey  
 Clear glazing - 6/10/6 toughened-1C2 rated  
 'U' Value <2.2W/m<sup>2</sup>K

**INTERNAL DOORS**  
 926mm x 2040mm Oak Veneer  
 Fire Rating FD30S  
 Pyroshield safety clear glazing  
 Acoustic Rating 32dB  
 White PVC door frame and grey architrave & skirting  
 Kick plates both sides  
 DCS2024BC Closer  
 Signage as required  
 Architectural straight lever handle & sash lock