

Think Smart. Build Smart.



mcavoy



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CleverClass

The energy efficient modular school building

Overview

Time and cost predictability

Reduced energy costs

Lower carbon emissions

Faster time to completion

Flexible building solution - single, double and two storey

Highly engineered quality finishes

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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 CO₂/m² 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, standard double classroom and two storey 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?

Faster return on investment



Time and cost predictability



Environmentally sustainable construction techniques



Improved Health and Safety during construction



Faster time to completion



Highly engineered quality finishes with fewer defects



Building CO₂ Emissions Rate:

18 Kg CO₂/m²

Typical Energy Performance Rating: B31



Lower carbon emissions



Typical annual energy costs:

£239.82*

*Based on double classroom with air sourced heat pump.

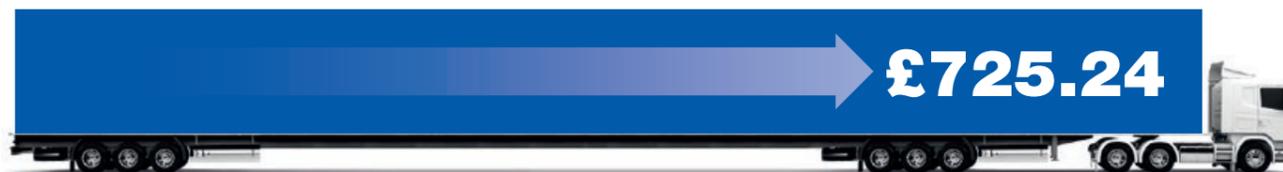
Flexible building solution - can be relocated & extended



Annual Energy Cost Comparison



NEW CleverClass DOUBLE CLASSROOM WITH AIR SOURCED HEAT PUMP



INDUSTRY STANDARD DOUBLE CLASSROOM (5-10 YEARS OLD) WITH ELECTRIC HEATING

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/m²K

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/m²K

ELECTRICAL INSTALLATION

High frequency LED 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/m²K

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/m²K

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

EXTERNAL DOORS

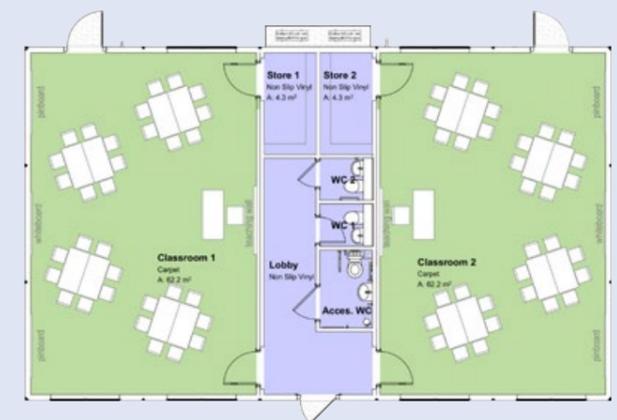
1190mm x 2095mm PPC Aluminium Frame, colour Merlin Grey
Clear glazing - 6/10/6 toughened-1C2 rated
'U' Value <2.2W/m²K

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

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



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



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