

Publication of Building Information Stocksbridge High School Re-development.

<p>A basic description of the project and building</p>	<p>The re-development will maintain the schools current capacity of 900 pupils. The building works include:</p> <ul style="list-style-type: none"> • Construction of a new two storey block which will be a steel framed brick and render clad structure • Refurbishment of the existing single / two storey 1930's teaching block which is a brick and slate roof structure • Part refurbishment / part re-building of the existing sports block • Construction of a new caretaker's house and demolition of the existing house • Demolition of all of the 1970's teaching block • Retention of the existing gym building and ICT suite • Extensive external works to provide new car-parking, paving, fencing, Multi Use Games Area, and soft landscaping.
<p>The key innovative and low-impact design features of the building</p>	<p>Some of the key design features are:</p> <ul style="list-style-type: none"> • Careful positioning of the building on the hilly site to minimise excavation works • Attenuating the drainage system on site to minimise impact on local sewers • Providing areas of "green" roof to slow the passage of rainwater to the drainage system. • Providing a science garden to aid the teaching curriculum • Providing stainless steel cladding to the main entrance as a link to the local communities history with steel manufacturing.
<p>Basic Building Cost - £/m²</p>	<p>The average cost per m² is £2 225 This will vary between new-build construction and refurbishment construction.</p>
<p>Services Costs - £/m²</p>	<p>These are approximately £420 m²</p>
<p>External Works - £/m²</p>	<p>The approximate costs of the external works is £65 m²</p>
<p>Gross floor area - m²</p>	<p>The gross floor area of the buildings being constructed and refurbished is 8 043m²</p>
<p>Total area of site - hectares</p>	<p>The total School Site is approximately 4.39 hectares</p>
<p>Functional areas and their size - m²</p>	<p>The total functional building area (net area) being created is 5 805m² and the total building area created is 8 002m²</p>
<p>Area of circulation - m²</p>	<p>The approximate total area for circulation is 1 475m²</p>
<p>Area of storage - m²</p>	<p>The approximate total area for storage is 242m²</p>
<p>% area of school grounds to be used by community</p>	<p>The % of the school grounds which could be used by the community is 17% based on use of the MUGA and All Weather Pitch.</p>

% area of school buildings to be used by community	This equates to 42% of the total 8 002 m ²
Predicted electricity consumption - kWh/m²	33 kWh/m ²
Predicted fossil fuel consumption - kWh/m²	144 kWh/m ²
Predicted renewable energy generation - kWh/m²	The predicted renewable energy generation is negligible in kWh/m ² but a solar collector to heat water for sinks in one of the Science Laboratory's is being provided as a teaching aid.
Predicted water use - m³/pupil/year	4.4 m ³ /pupil/year
% predicted water use to be provided by rainwater or grey water	There are no current plans to install rainwater or grey-water harvesting to the project.
The steps taken during the construction process to reduce environmental impacts, i.e. innovative construction management techniques.	Some of the measures that are being taken during the re-development of Stocksbridge School to ensure the impact of Construction activities on the environment are minimised include: <ul style="list-style-type: none"> • The site cabins being used are eco friendly and have features such as enhanced levels of insulation, PIR control of lighting and enhanced glazing. • All site waste is segregated into waste streams to ensure it can be re-cycled efficiently upon removal from site. • Dust suppression techniques have been employed to minimise air pollution. • Hedgerows and trees adjacent to the site have been fenced off and protected from construction activities.
A list of any social or economically sustainable measures achieved/piloted.	Some of the social & economical measures within the project are: <ul style="list-style-type: none"> • A building of robust design to minimise replacement of damaged materials. • A facility that can be used by all of the community – in particular the sporting facilities.
BREEAM Rating and score	Both the new building and refurbishment of the existing buildings will achieve a BREEAM rating of Very Good which requires a minimum score of 55%. At the time of writing the likely score for the project is over 60%.

* BREEAM (Building Research Establishment's Environmental Assessment Method) used as an environmental assessment method for buildings to ensure best practice in sustainable design and used to measure a buildings environmental performance.