

Cowbridge Comprehensive School

BREEAM M14 – Publication of Building Information

As part of the Council's commitment to achieving BREEAM Excellent, the Council is required to provide the following information relating to the new school building.

a. BREEAM rating and score	BREEAM Excellent
b. Basic building cost	£1,750.00/msq
c. Services costs	£350.00/msq
d. External Works	£457.00/msq
e. Gross floor area	6,943msq
f. Total area of site	11.5ha
g. Area of teaching spaces	6,124msq
h. Area of circulation	2,170msq
i. Area of storage	437msq
j. Percentage of school grounds to be used by the community	80%
k. Percentage of school buildings to be used by the community	86%
l. Predicted energy consumption	54kWh/msq
m. Predicted fossil fuel consumption	26.2kWh/msq
n. Predicted renewable energy generation	9.3kWh/msq
o. Predicted water use	3.62mcu/pupil/year
p. Percentage predicted water use to be provided by rainwater or grey water	30%

- q. The project focuses on the collocation of the existing school on to one site at Aberthin Road. This will replace the current provision which is split over three sites. Central to the philosophy of the new school is to place it firmly at the heart of Cowbridge and the use of the facilities by the community will enable this process to commence. Adjoining land has been purchased by the Council to enable the development of playing fields on the Aberthin Road site.
- r. The new school build comprises of teaching and administration provision, including new provision for resistant materials and food technology, a new main hall and a modern sports hall and associated fitness suite. Class rooms will be fitted with modern ICT provision to aid teaching and learning. Externally they school will have a state of the art 3rd generation all weather pitch and multi use games areas both of which will be floodlit.
- s. Through early discussions with the Head the design team have been able to challenge the requirements of Building Bulletin 98 in relation to teaching space and have incorporated a number of break out spaces throughout the new build. These enable the school to move away from the traditional taught environment and move towards a more learning/tasked based environment.

Early in the design process the team reviewed options for the frame construction, relating specifically to material choice. Following a review of the options, the team decided on a hybrid scheme with level 1 constructed using in situ reinforced concrete and the subsequent two levels being steel. This will benefit the construction process in as much that level 1 can commence whilst the steel work design is finalised and the thermal and acoustic requirements of the resistant materials and music class rooms which are located on level 1.

Rain water harvesting is being utilised in the building to reduce the amount of water required by building users, along with the installation of solar hot water and photo voltaics.

- t. The main contractor worked with the design team to develop a strategy to minimise the amount of material arising from the construction process being removed from site. This has had a significant impact in relation to lorry traffic on the roads and the associated CO2 emissions. These have been monitored through the life of the project and form a Key Performance Indicator for the project. Allied to this strategy has been the Client's requirement to utilise local labour and suppliers. This has seen a very high proportion of labour coming from within 50 miles of the project and the majority from within the South Wales corridor. The figure currently stands at 85%.

As part of the early survey work on the site, a number of hedgerows were identified as being important in relation to the wildlife that they supported. Whilst they were not classified as protected, the team on the advice of the consultant ecologist translocated these ensuring that local species were

retained on site and enabling the hedgerows to regenerate and sustain the sites biodiversity. We have also been involved in the relation of additional habitats to replace those that have been affected during the construction process.

- u. Opening up the school for community use is seen as a major benefit; both in terms of the schools desire to be a significant contributor to the local community as well as ensuring the most efficient use of council building. The facilities will be available from 4pm onwards during term time weekdays, and will be available all day at the weekends. During the school holidays, the facilities will be available to the public 7 days a week. The community use will also benefit the school in terms of generating a revenue stream to reinvest in to the buildings to ensure they are well maintained, potentially alleviating the contribution required from the local authority.