

Drapers' Academy Building Information

Item	Description
A basic description of the project and building	<p>A new-build Academy in Havering, north-east London, jointly sponsored by the Drapers' Company of the City of London and Queen Mary University.</p> <p>Situated on the edge of the post-war new-town-development of Harold's Hill the Academy is the first phase of a learning village initiated by the London Borough of Havering as a key part of the regeneration of the surrounding area. Bordered by the green belt and Dagnam Park (designed by Humphry Repton in 1812) the Academy's design uses the slope of the site to maximise views across the stunning Essex landscape and provide a central courtyard that takes its cues from the medieval cloister and the long tradition of the English country house and its surrounding parkland.</p>
BREEAM rating and score	Very good > 55%
The Key Innovative and low-impact design features of the building	Biome, Energy Centre, Photovoltaic Cells and Ground Source Heat Pumps
Basic Building Cost £/m²	Circa £2,265 m ²
Service Costs - £/m²	Circa £425 m ²
External Works - £/m²	Circa £197 m ²
Gross Floor Area - m²	11,590 m ²
Total area of site – Hectares	9.7 hectares
Function areas and their size (m²)	Classrooms 4,072 m ² Sports 1,187 m ² Small group/practice 519 m ² Office and Admin 622 m ² Dining 456 m ²
Area of circulation (m²)	1,955 m ²
Area of storage (m²)	592 m ²
% of grounds to be used by community (where relevant)	10.24%
% area of buildings to be used by community (where relevant)	3.6%
Predicted Electricity Consumption kWh/m²	55.65 kWh/m ²
Predicted Fossil Fuel consumption kWh/m²	25.09 kWh/m ²

Predicted Renewable energy generation kWh/m²	3.31 kWh/m ²
Predicted Water use m³/Person/year	79.9m ³
% predicted water use to be provided by rainwater/greywater	0%
Steps taken during the construction process to reduce environmental impacts i.e innovative construction management techniques	<p>The steps taken during the construction process to reduce environmental impacts, i.e. innovative construction management techniques.</p> <p>Steps taken to reduce environmental impacts</p> <ul style="list-style-type: none"> • Application for great crested newt license and erection of amphibian barrier with searching and clearance of site before work commences to lower playing fields • Phase 2 bat survey with mitigation measures proposed in new scheme to provide new habit for displayed bats • Sorting and segregation on site of waste materials with removal to re-cycling facility before eventual disposal • Control of hazardous materials by storing in dedicated compounds with full drip trays and spill kits on standby • Dust suppression by use of water bowsers to site access roads • Protection of trees by cordoning off and protection of root spread • Any waste produced is recorded and logged on Smartwaste website <p>Innovative construction management techniques</p> <ul style="list-style-type: none"> • Any waste produced is recorded and logged on Smartwaste website with targets for reducing waste