

8.29 STABLE BLOCK & CAFE - ENVIRONMENTAL SUSTAINABILITY STATEMENT

Marble Hill Representation
Environmental Sustainability Statement

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This statement sets out the broad project aims for the mechanical and electrical services strategy in advance of the detailed design of the services installations.

In addition to the statutory requirements, English Heritage's own Standards of Construction requirements and requirements of the HLF Carbon Assessment tool, the mechanical and electrical services strategy for the development will target measures which will, where economically viable with the project cost plan, follow the same objectives as incentives such as:-

BREEAM. (Building Research Establishment Environmental Assessment Method),
LEED. (Leadership in Energy and Environmental Design),

The objective of these schemes and those of this project are to: -

- Use natural resources more efficiently.
- Reduce the buildings consumption of water while reducing its generation of waste water.
- Minimise its consumption of fossil fuels and therefore its carbon dioxide emissions.
- Create a pleasant internal environment with good levels of natural lighting and good indoor air quality.
- Reduce the building's use of materials which cause global warming or ozone depletion.
- Minimise the potential for the accidental wastage of resources through considered design
- Minimise the opportunities for malicious damage through robust design
- Minimise the potential for unsocial/ criminal behaviour through the adoption of secure design.

The services strategy proposed for this development will include the following measures: -

- Provision of appropriate metering of energy and water consumption.
- The cafeteria will be naturally ventilated through the use opening windows and roof lights.
- High efficiency fully condensing natural gas boiler controlled to maintain maximum seasonal efficiency through the use of reduced flow and return temperatures.
- Inverter driven variable speed fans and pumps shall be used to minimise electrical consumption.
- WHB fitted with spray taps and all new WCs shall be fitted with low volume flushing syphons.
- Public toilets fitted with automatic solenoid valves which will isolate the water supply to the building when the toilets are not in use.
- External hose union bib taps concealed within the fabric of the building to minimise the risk of vandalism.
- Pipework and ductwork insulation with a global warming potential of zero and an ozone depletion potential of less than 5.
- The building services strategy developed so as not to require the provision of refrigerant based systems.
- Consideration given to automatic daylight linked lighting controls.
- Use of automatic lighting controls within WC's and ancillary areas
- Light fittings will be selected to have low energy lamps, where practicable LED fittings will be employed
- External Lighting will be minimised to prevent light pollution
- External Lighting controls will be incorporated to reduce the lighting consumption of the external lighting system
- Security and CCTV strategies will be developed with the client security advisors to minimise the risk of vandalism