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Rosary RC Primary School, Proposed Education Building

Addtional local and national level documentation.

Planning Assessment

Need for proposal

- The school has identified a need for accomodation to provide space for teaching, following the loss of a similar sized unit (because of fire) on the same site which had not yet been replaced. This need is not met satisfactorily by the existing facilities. Addtional accomodation of the quality proposed will bring obvious benefits for the education of children, the teaching conditions of staff and the wider community at large, which can enjoy improved facilities.

Planning Policy

- Where relevant all national, regional and local level planning policies and requirements have been consulted to ensure the proposal is compliant

Involvement

- The following parties have been involved in developing the proposed scheme:
  a) Rosary RC Primary School
  b) The Garden Escape / Metropolis Architecture Ltd.
- Adjoining neighbours have not been consulted on the proposed development prior to submission. However there was consultation of a previous scheme which was bigger than that proposed here.

Sustainable Development

- One of the primary motivations of the Garden Escape Ltd is to provide ecologically and environmentally sensitive buildings. As a result our buildings achieve (depending on individual specifications and requirements) an 'A' or 'B' EPC (energy performance certificate) rating when assessed by independent evaluators. Virtually every component, material and constructional method used in the manufacture and assembly of the Garden Escape is selected with the environment in mind. Careful attention has been paid to orientation and daylighting to ensure efficient resource use, indoor environmental quality and lessen the likelihood of overheating; important in an educational building. Cross ventilation is permitted by the provision of opening lights on front and rear elevations and a narrow plan. Space heating (to the two classroom areas) is provided by air-source units (with provision for summer cooling) Below is a summary of some of the 'green' features:

Foundation System
- Mini Pile system (or plinth or screw pile system depending on ground conditions) with minimal ground disturbance.

Walls and Roof construction
- Timber from certified, sustainable sources.
- 80% recycled insulation.
- Airtight, lightweight construction.
- Low U-values
- Optional multi-foil construction

Glazing
- Oiled Hardwood screens from sustainable sources. No toxic surface treatment.
- High performance coated Low E double glazed units.
- Argon filled option.
- Fully draught sealed.
- Strategically positioned 'light-pipe' units.

External Cladding
- Western Red Cedar from Sustainable sources (FSC and PEFC certified).
- Oiled or left to silver naturally.
- No toxic surface treatment.

Services
- Class-A rated equipment.
- Low energy lighting systems with optional smart control.
- Instantaneous water heating (lower energy demands than storage systems)
- Air-Source heat pump space heating (to main areas) with summer cooling (double 'A' rated).

Activities
- The Garden Escape is offsetting its activities and CO^2 emissions generated with ***Climate Care.***

Evaluation

- Due to the lack of any objection or identification of problems and issues thus far, the proposal has progressed as intended by the designers and client. With no problems or issues of conflict yet incurred.

Lighting Assessment:

Equipment schedule: Ultra low watt LED recessed spot lights fitted to external soffits above entrance screens.
Emergency lights intalled above entrance screen in the event of a power failure

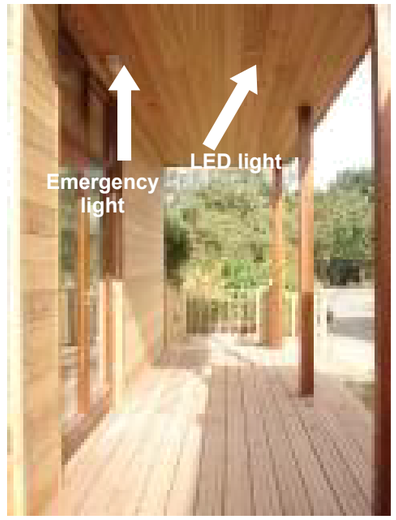
Equipment details / Comments: GU50 fittings. LEDs provide a subtle down-lighting effect and do not produce glare. Primarily installed to highlight entrance areas and not to illuminate landscape.

Position and number of units: (see drawing number 14 - elevations)

Hours of operation: At user's discretion. Emergency units for power failure situations only.

Plan with beam orientation: Down-lighters used only. No lighting with outward casting beam proposed at design stage.

Typical Installation:



Ventilation & Extract Statement Assessment - Air source heating / summer cooling

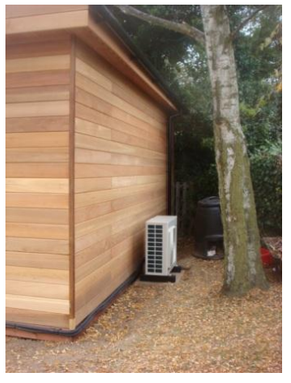
Manufacturer: Mitsubishi

Model: Inverter (Combined Air-Conditoning and Air source heat pump unit)

Noise Levels: See manufacturer's information.

Dimensions: 550x765x285 mm

Drawing indication equipment size / position: See drawing 12



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