

## 6. MATERIALS

### 6.1 General

6.1.1 Green Building products shall be used in all the building construction as laid down in the Green Building regulations by the authorities.

6.1.2 All materials used in any construction shall be of a type and quality that fulfils the purpose for which they are used. They must be safe and durable. Where and to the extent that materials, products and workmanship are not fully detailed or specified, they are to be of a standard appropriate to the works and suitable for the functions stated in or reasonably to be inferred from the project documents, in accordance with good building practice.

6.1.3 Products must be new and previously unused. For products specified to British or other approved standards, certificates of compliance shall be obtained from manufacturers. Where a choice of manufacturer or source of supply is allowed for any particular product, the whole quantity required to complete the work must be of the same type, manufacture and/or source.

6.1.4 Concerning basic workmanship; and where compliance with BS 8000 is specified, this is only to the extent that the recommendations therein define the quality of the finished work. Where BS 8000 gives recommendations on particular working methods or other matters which are properly within the province and responsibility of the Contractor, compliance therewith will be deemed to be a matter of general industry good practice and not a specific requirement of the Authority.

### 6.2 Screeds and Toppings

Cement screed shall be to BS 8204 and BS 8000 part: 9.

Heavy duty epoxy topping shall be composed of epoxy aggregate matrix and top coats to produce a dense, seamless and impervious topping, colours to be selected by the Consultant.

Epoxy concrete floor sealer to be solvent based epoxy floor coating providing abrasion, chemical resistant, coloured, dustproof and sealed surface.

### 6.3 Finishes

All finishes are to conform to relevant BS and BS code of practice.

6.3.1 Internal plastering is to be executed in accordance with BS 5492.

6.3.2 External rendering is to be executed in accordance with BS 5262.

6.3.3 Painting is to be in accordance with BS 6150 and BS 8000 pt: 12.

### 6.4 Rigid Floor and Wall Tiling and Slabs

6.4.1 Ceramic tiles and fittings shall conform to BS 6431. Fixing of ceramic tiling and fittings is as per BS 5385: part: 1.

6.4.2 Terrazzo tiles and fittings shall conform to BS 4131, hydraulically pressed and steam cured. Joints to be true to line, continuous and without steps and parallel to the main axis of the space or specified features.

### 6.5 Cladding and Covering

6.5.1 Insulated composite cladding panels comprising outer skin of profiled sheet steel, hot-dip galvanized to BS 2989 -82 type G275. Sheets are to be coated with an anti corrosive epoxy primer and barrier coat on both sides and a protective coloured coating. Profiled sheeting and ancillary materials are to be fixed neatly to manufacturer's recommendations to make the whole sound and weather tight.

6.5.2 External cladding shall be executed in accordance with BS 8298. Cladding is to resist all dead and live loads; wind loads are to be calculated in accordance with BS CP 3, chapter V, Part 2 based on prevailing site conditions.

### 6.6 Glazing

Glass generally shall conform to BS 952. Glazing must be wind and water tight under all conditions to BS 6375 with full allowance made for deflections and other movements. Preparation of surrounds, dimensions of edge cover and clearance, positions and materials of distance pieces, setting and location blocks are to conform to BS 6262 and to glass and sealant manufacturers' recommendations. General glazing is to conform to BS 6262. Security glazing is to be to BS 5357.