

# ***DRET London Free School - Primary***

## **Outline Specification Document**

*Revision A: 21st March 2016 - Issued for draft CPs*

*Revision B: 23rd March 2016 - Issued for CPs*

**Table of Contents**

Outline Specification..... 4

# 05-20-60 Whole building performance

## 111 Specification Notes

- **General Notes:** -This outline specification describes the method and form of the construction, and the qualities of the materials and products to be used in the construction. It does not preclude the selection of alternative systems, products, materials of equivalent quality, performance, durability and appearance.  
-To be read in conjunction with Structural / Services / Landscape / Specifications and the Environmental Strategy Documents.
- **Notes on Materials:** -All cast-insitu concrete used in mass and reinforced applications is to have a reduced environmental impact specified by the structural engineer. This may involve use of cement replacement additives, recycled aggregates and recycled steel reinforcement and must achieve reductions in embodied energy and CO<sub>2</sub> compared with conventional concrete. All pre-cast concrete should also have a reduced environmental impact specified by the structural engineer.  
-All timber and wood products are required to be sourced from forests of known location that are sustainably managed and do not cause environmental damage or social harm. Wherever obtainable, they should be certified by the Forest Stewardship Council (FSC). If not obtainable with FSC certification, they should be certified under the Programme for Endorsement of Forest Certification (PEFC).  
-Plywood and wood particleboards, including medium density fibreboard (MDF), oriented strand board (OSB) and wood wool board/slab, are wood products, which are required to be sourced in accordance with the timber and wood products note above.  
-All medium density fibreboard (MDF) to have zero added formaldehyde.  
-All specified paints and other coatings to have following characteristics: non toxic, solvent free, virtually zero volatile organic compounds (VOCs).  
-Paints used for the internal surface of external walls designed to act as breathing walls are required to be moisture vapour permeable to dissipate moisture.  
- Structural steel composite deck to be pre-finished in ColorCoat FD25 plastisol finish to all exposed ceiling soffit areas to achieve specified thermal mass requirement as set out in Environmental Consultant and Structural Engineer's Specification.
- **Lift Finishes:** -Landing Doors: Brushed stainless steel  
-Car Doors: Brushed stainless steel  
-Car Floor: Vinyl Flooring.  
-Car Walls: Finished steel sheet from manufacturers' standard colour range with mirrors to rear walls above handrail  
-Car Ceiling: Brushed stainless steel and back-lit translucent plexiglass  
-Operating Panels: Brushed stainless steel  
-Handrails: Stainless Steel

## 125 Security and safety

- **Fire:**
  - **Methodology:** As set out in Fire Consultant's report.
- **Security:** To Secured by Design standards where possible

## 135 Sustainability

- **Methodology:** As set out in 3891 Sustainability Strategy Summary by MZA

## 239 Air permeability (Airtightness)

- **Air permeability requirements:**
  - **Air leakage rate (maximum):** 5 m<sup>3</sup>/(h.m<sup>2</sup>)

#### **241 Thermal transmittance (U-value)**

- **Requirements:**
  - **Walls U-value (maximum):** 0.23 W/m<sup>2</sup>.K
  - **Floors U-value (maximum):** 0.22 W/m<sup>2</sup>.K
  - **Soffits U-value (maximum):** 0.2 W/m<sup>2</sup>.K
  - **Roofs U-value (maximum):** 0.2 W/m<sup>2</sup>.K
  - **Window U-value (maximum):** 1.6 W/m<sup>2</sup>.K
  - **Doors U-value (maximum):** 1.9 W/m<sup>2</sup>.K

#### **245 Acoustic performance of schools**

- **General Requirements:** As acoustic engineers report

#### **279 BREEAM**

- **Scheme:** BREEAM New Construction 2011
- **Overall building rating (minimum):** Excellent

# Outline Specification

## 20-10-10 Board ceiling and soffit systems

### 110 Board suspended ceiling system type A

PLAIN PLASTERBOARD CEILING TO BULKHEAD EDGES, MAIN ENTRANCE AND WHERE REQUIRED

- System Manufacturer: Knauff, or similar
  - Product reference: MF suspended ceiling system or alternative of equivalent performance.
  - Substrate: steel structure and precast concrete planks
  - Framing System: proprietary framing system.
  - Lining: Plain plasterboard
  - Access panels: Proprietary metal frame access panels, as required
  - Accessories: Allow for all proprietary metal edge beads, angle beads and stops, and perimeter trims.
- Allow for all acoustic, fire and plenum void barriers.

## 20-10-20 Demountable suspended ceiling systems

### 170 Raft or island suspended ceiling system type A

ACOUSTIC CEILING RAFTS TO CLASSROOMS AND SPECIALIST TEACHING SPACES

- System Manufacturer: Ecophon, or similar
- Product Reference: Master Solo Rectangle, or similar
- Acoustic absorption: Class A
- Finish: white
- Hanging system: wire hangers suspended from precast concrete soffit

### 170 Raft or island suspended ceiling system type B

ACOUSTIC SUSPENDED CEILING RAFTS WITH INTEGRATED LIGHTING, TO STAFF ROOM AND ADMIN OFFICES

- System Manufacturer: Ecophon, or similar
- Product Reference: Ecophon Master Solo Rectangle, or similar approved
- Acoustic absorption: Class A
- Finish: white
- Lighting: Refer to M&E luminaire schedule and specification.

### 170 Raft or island suspended ceiling system type C

ACOUSTIC CEILING RAFTS TO MAIN HALL AND SMALL HALL

- System Manufacturer: Ecophon or similar approved
- Product Reference: Master Solo Rectangle, or similar approved
- Acoustic absorption: Class A
- Colour/finish: to be confirmed
- Hanging system: wire hangers suspended from precast concrete soffit

### 190 Unit (modular) suspended ceiling system type B

UNIT SUSPENDED MINERAL FIBRE CEILING TO CORRIDORS, THERAPY ROOM, AND REPROGRAPHICS

- System Manufacturer: Armstrong, or similar
- System Requirements: Fully accessible, demountable, ceiling tiles
- Acoustic performance: class C
- Access: where required

- Finish: White
- Service integration: factory formed penetrations to receive recessed light fittings.

#### **190 Unit (modular) suspended ceiling system type A**

UNIT SUSPENDED MINERAL FIBRE CEILING TO SEN RESOURCE BASE

- System Manufacturer: Armstrong, or similar
- System Requirements: Fully accessible, demountable, ceiling tiles
- Acoustic performance: class A
- Access: where required.
- Finish: White
- Service integration: factory formed penetrations to receive recessed light fittings.

#### **190 Unit (modular) suspended ceiling system type C**

UNIT SUSPENDED TILE CEILING TO TOILETS AND HYGIENE ROOM

- System requirements: Fully accessible, water resistant, micro-textured tile ceiling
- System manufacturer: Armstrong, or similar

#### **190 Unit (modular) suspended ceiling system type D**

UNIT SUSPENDED HYGIENIC TILE CEILING TO KITCHEN AND SERVERY AREAS

- System Requirements: Fully accessible, hygienic, water resistant acoustic micro-textured tile ceiling.
- Ceiling type: fibre board tile ceiling
- Ceiling modules: 600x600.
- Grid: Non interlocking, corrosion-resistant metal ceiling grid.
- Access: Infill units fully demountable.
- Services: Hangers and housings for recessed luminaires.

### **20-25-75 Roof light, roof window and roof ventilator systems**

#### **170 Rooflight system**

DOUBLE SKINNED, INSULATED ROOF HATCH WITH CURB LINER AND INTERNAL CABLOCK

- For fire escape from roof, located over ST02
- Manufacturer: Surespan or similar
- Accessories: Allow for internal retractable access ladder

### **20-50-30 Flat roof covering systems**

#### **135 Liquid applied inverted roof covering system to main roof type A**

- Substrate: precast concrete planks with structural topping and levelling screed
- Roof covering system: PermaTEC hot melt system, or similar
- Manufacturer: Permamec
- Finish: rounded pebble ballast generally. Allow for paving slabs to access routes.
- Solar PV framing to southern part of roof: 'Big Foot' non penetrative Fix-it framing system, or similar, with rounded pebble ballast generally. Allow for paving slabs to access routes
- Accessories: allow for all proprietary sleeves, trims and gully accessories.

#### **135 Liquid applied inverted roof covering system type B**

- Substrate: precast concrete planks with structural topping and levelling screed
- Roof covering system: PermaTEC hot melt system, or similar
- Manufacturer: Permamec
- Finish: Precast concrete pavers on spacers
- Accessories: allow for all proprietary sleeves, trims and gully accessories.

### **180 Reinforced bitumen membrane inverted roof covering system with brown roof to bicycle shelter**

- Substrate: WBP ply sheeting on timber joists.
- Roof covering system: Reinforced bitumen membrane
- Manufacturer: Alumasc Exterior Building Products Ltd, or similar
- Product Reference: Hydrotech 6125 Structural Waterproofing System or alternative equivalent performance
- Finish: brown roof covering with integrated drainage layer and filter layer.
- Accessories: allow for all proprietary sleeves, trims and gully accessories.

### **20-50-60 Profiled sheet roof covering systems**

#### **160 Polycarbonate roof sheeting to Reception and Year 1 classroom canopies**

Polycarbonate sheeting on purlins laid to fall back towards building

- Structure: steel
- Allow for metal gutters and downpipes

### **20-55-15 Cementitious screed systems**

#### **130 Floating cementitious levelling screed system type A**

PROPRIETARY SCREED WITH UNDERFLOOR HEATING ON INSULATION

- Location: main hall, small hall, library. Refer also to M&E drawings and specifications.
- Substrate: rigid insulation
- Screed construction: Floating with underfloor heating
- To receive: Impact resistant vinyl sheet flooring, carpet tiles.

#### **130 Floating cementitious levelling screed system type B**

PROPRIETARY SCREED ON INSULATION

- Location: Generally ground floor other than where there is underfloor heating.
- Substrate: Rigid insulation
- To receive: vinyl sheet flooring, carpet tiles, floor paint

### **20-55-75 Resilient and textile adhesive fixed floor covering systems**

#### **110 Carpet tile system type A**

CARPET TILING TO GENERAL CLASSROOM AREAS, GROUP ROOMS AND LIBRARY

- Base: cement screed on insulation to ground floor, structural topping to first floor.
- Manufacturer: tbc
- Colour and finish: from standard range

#### **110 Carpet tile system type B**

CARPET TILING TO STAFF WORK AREAS AND OFFICES

- Base: cement floating screed on insulation to ground floor, structural topping to first floor.
- Manufacturer: tbc
- Colour and finish: from standard range

#### **165 Resilient sheet flooring system type D**

VINYL SHEET FLOORING TO STAIRS

- Type of flooring: sheet flooring, vinyl.
- Base: precast concrete stair..

- Preparation: allow for levelling compound in line with manufacturers recommendations.
- Manufacturer: Forbo Flooring Uk Ltd or similar.
- Product reference: Eternal or similar.
- Colour/ pattern: from standard range.
- Accessories: Allow for stair nosing, painted MDF skirtings.

#### **165 Resilient sheet flooring system type E**

##### VINYL SHEET FLOORING TO CORRIDORS AND STORE ROOMS

- Type of flooring: vinyl.
- Base: cement floating screed on insulation to ground floor, latex levelling screed to first floor
- Manufacturer: Forbo Flooring Uk Ltd or similar.
- Product reference: Eternal or similar.
- Colour/ pattern: from standard range.
- Accessories: Transition cover strips at changes of floor covering, painted MDF skirtings.

#### **165 Resilient sheet flooring system type F**

##### NON SLIP VINYL SHEET FLOORING TO KITCHEN AND PRIMARY SERVERY

- Type of flooring: sheet flooring, slip resistant vinyl.
- Base: screed on insulation
- Preparation: allow for levelling compound in line with manufacturers recommendations.
- Manufacturer: Forbo Flooring Uk Ltd or similar.
- Product reference: Safestep R12 or similar.
- Colour/ pattern: from standard range
- Accessories: transition cover strips at changes of floor covering, painted MDF skirtings.

#### **165 Resilient sheet flooring system type G**

##### ELECTROSTATIC AND CONDUCTIVE FLOORING TO ICT SERVER ROOM

- Type of flooring: sheet flooring, Electrostatic and conductive vinyl.
- Base: latex levelling screed on structural topping
- Preparation: allow for levelling compound in line with manufacturers recommendations.
- Manufacturer: Forbo Flooring Uk Ltd or similar
- Product Reference: Colorex SD or similar
- Colour/ pattern: from standard range
- Accessories: transition cover strips at changes of floor covering, painted MDF skirtings

#### **165 Impact resistant vinyl sheet flooring system type H**

##### IMPACT RESISTANT VINYL FLOORING TO MAIN HALL AND SMALL HALL

- Type of flooring: heterogeneous indoor sport floor covering
- Base: cement floating screed on insulation with integrated underfloor heating
- Preparation: as manufacturers recommendations
- Manufacturer: Tarkett Sports, or similar
- Product reference: Omnisport Uni or similar
- Thickness: tbc
- Colour: tbc
- Seam welding: hot welding with colour matching rod

#### **165 Resilient sheet flooring system type A**

##### NON SLIP VINYL SHEET FLOORING TO SCIENCE AND ART ROOMS, AND CLASSROOMS

- Type of flooring: sheet flooring, vinyl.
- Base: cement floating screed on insulation to ground floor, levelling screed on structural topping to first floor
- Preparation: allow for levelling compound in line with manufacturers recommendations.
- Manufacturer: Forbo Flooring Uk Ltd or similar
- Product reference: Surestep R10 or similar
- Colours: from standard range
- Accessories: transition cover strips at changes of floor covering, painted MDF skirtings.



### **165 Resilient sheet flooring system type C**

#### **NON SLIP VINYL FLOORING TO WET AREAS**

- Type of flooring: sheet flooring, slip resistant vinyl.
- Base: screed on insulation
- Preparation: allow for levelling compound in line with manufacturers recommendations.
- Manufacturer: Forbo Flooring Uk Ltd or similar
- Product Reference: Surestep R10 or similar
- Colour/ pattern: from standard range

### **25-05-60 Panel cubicle systems**

#### **160 Panel cubicle system type A**

##### **WC PANEL CUBICLES WITH FULL HEIGHT CUBICLE PARTITIONS AND IPS PANELS TO Y3/4 AND Y5/6 PUPIL TOILETS**

- Manufacturer: Total Laminates or similar
- System Reference: 12.5mm solid grade laminate panel cubicles or similar
- Colour/ finish: from standard range
- IPS enclosure: full height, accessible service enclosure at the rear of each cubicle. Allow for 10mm gap to top and bottom of doors and overpanel above doors.
- Vanity units: allow for colour matching vanity units as indicated in drawings

#### **160 Panel cubicle system type B**

##### **WC PANEL CUBICLES WITH REDUCED HEIGHT CUBICLE PARTITIONS AND FULL HEIGHT IPS PANELS**

##### **TO RECEPTION AND Y1 AND Y2 TOILETS**

- Manufacturer: Total Laminates or similar
- System Reference: 12.5mm solid grade laminate panel cubicles or similar
- Colour/ finish: from standard range
- IPS enclosure: full height, accessible service enclosure at the rear of each cubicle
- Vanity units: allow for colour matching to vanity units as indicated in drawings

### **25-15-25 Framed partition systems**

#### **135 Gypsum board partition system type K**

#### **135 Gypsum board partition system type O**

##### **Structural steel, frameless cladding system to all columns, beams and other structural steework**

- System manufacturer: British Gypsum or similar
- System reference: FireCase or similar
- Thickness: 15mm
- Fire rating: 1 hour unless otherwise shown on drawings

#### **135 Gypsum board partition system type A**

##### **METAL STUD PARTITION SYSTEM**

- Gypsum board partition system on metal stud subframe to achieve specified sound and fire resistance
- System manufacturer: Knauf or similar
- Structural soffit: Precast concrete planks.
- Thickness (including linings): as required
- Duty: Severe
- Acoustic rating: as shown on drawings
- Fire rating: as shown on drawings
- Other Requirements: Provide sufficient board density to allow for fixing of furniture and fittings where

required; allow for plywood pattress to support AV boards where required; Fire stopping around service penetrations; Sockets backed using baffle boxes, intumescent putty pads or suitable rock mineral wool, sufficient to maintain the fire/acoustic performance: Partition base detail to control flanking sound transmission: Min 100mm high timber plate to create partition foot with floating screed cast against a resilient layer either side of the plate. Partition head detail to control flanking sound, allow for insulated fibreboard boxing where partition meets structural steel members. Allow for pattressing as required.

## **25-15-35 Framed wall structure systems**

### **145 Light steel framed wall structure system type A**

#### **LIGHT STEEL FRAMED INFILL WALLING SYSTEM TO INNER LEAF OF EXTERNAL WALLS**

- Metsec SFS infill walling or similar
- Design concept: Steel frame to provide frame for internal linings, support areas of external brick slip cladding and provide support and bracing to carry external windows and doors.
- Design Standards: BS 5950 and BS EN 1993-1-1.
- Completion of Design: Fully developed by the subcontractor to provide specified performance.
- Insulation: Rockwool mineral wool or similar within Metsec framing, with PIR insulation board on outside face, to achieve overall target u-value.
- Other requirements: Allow for sheathing cement bonded particle board, vapour control layer, breather membrane and all necessary ties and fixings within build up. Internal lining to be Knauf Impact Panel or similar.

### **145 Light steel framed wall structure system type B**

#### **PARAPET TO ROOF AND EXTERNAL TERRACES**

- Design: Metsec SFS system to main roof and first floor terraces, to provide frame for internal linings, support areas of brick slip cladding to outside face and cementitious waterproof board to the inside face of roof/terrace.
- Balustrade fixings: first floor terraces to take balustrades fixed to inside face of upstand. Upstand to meet loading requirements in line with Building Regulations part K.

### **145 Light steel framed wall structure system type C**

#### **LIGHT STEEL FRAMED INFILL WALLING SYSTEM TO INNER LEAF OF EXTERNAL WALLS WITH STEEL BRACING**

- Metsec SFS infill walling or similar
- Design concept: Steel frame to provide frame for internal linings, support areas of external brick slip cladding and provide support and bracing to carry external windows and doors.
- Design Standards: BS 5950 and BS EN 1993-1-1.
- Completion of Design: Fully developed by the subcontractor to provide specified performance.
- Insulation: Rockwool mineral wool or similar within Metsec framing, with PIR insulation board on outside face, to achieve overall target u-value.
- Other requirements: Allow for sheathing cement bonded particle board, vapour control layer, breather membrane and all necessary ties and fixings within build up. Internal lining to be Knauf Impact Panel or similar.

## **25-25-10 Balustrade and handrail systems**

### **110 Balustrade and guarding system type A**

#### **METAL BALUSTRADE AND GUARDING EDGE OF ALL INTERNAL BALCONIES**

- Purpose made metal framed balustrade comprising mild steel vertical rods welded to mild steel flat top and bottom rails and base plate, all with factory-applied paint finish.
- Height: 1100mm high from FFL

### **110 Balustrade and guarding system type B**

## GLASS AND STEEL BALUSTRADE AND GUARDING TO ROOF TERRACES

- Purpose made balustrade comprising toughened glass panels set between steel uprights, fixed to metsec framing on inside face of parapet. Detail to be confirmed.

### **135 Handrail System type A**

#### PURPOSE MADE DOUBLE HANDRAIL TO PRIMARY STAIRS

- Handrail: 50mm diameter round stainless steel handrail. Second additional low level handrail to match.
- Brackets: mild steel, factory applied paint finish.

## **25-50-20 Door, shutter and hatch systems**

### **120 Internal doorset system type B**

#### INTERNAL WOOD FLUSH SINGLE DOORSETS, HEAVY DUTY / SEVERE DUTY, FULLY GLAZED SIDE PANEL (SIZE AS DRAWINGS)

- Manufacturer: European Doors, or similar
- Duty Category to DD171: Heavy duty / Severe Duty. Circulation doors to be severe duty. All other doors to be heavy duty.
- Fire Resistance as BS476-22 and as shown on drawings
- Sound insulation of completed doorset: as shown on drawings and Acoustic Consultants Report.
- Door Leaf Facings: laminate, colours tbc by from standard range .
- Lippings: hardwood lipping.
- Finish as delivered: Full factory finish.
- Frame and architraves:
  - Wood species: Softwood frames
  - Finish as delivered: Primed for painting on site
  - Beading: Timber beading to match door lipping fixed to manufacturer's recommendation.
  - Allow for aluminium threshold strips as manufacturer's recommendation. Planted on anti- finger traps.

### **120 Internal doorset system type C**

#### INTERNAL WOOD FLUSH FULLY GLAZED DOUBLE DOORSET WITH GLAZED OVERPANEL

- Manufacturer: European Doors, or similar
- Duty Category to DD171: Heavy duty / Severe Duty. Circulation doors to be severe duty. All other doors to be heavy duty.
- Fire Resistance as BS476-22 and as shown on drawings
- Sound insulation of completed doorset: as shown on drawings and Acoustic Consultants Report.
- Door Leaf Facings: laminate, colours tbc by from standard range .
- Lippings: hardwood lipping.
- Finish as delivered: Full factory finish.
- Frame and architraves:
  - Wood species: Softwood frames
  - Finish as delivered: Primed for painting on site
  - Glazing details: Vision panel and overhead panel as shown on component schedule
  - Beading: Timber beading to match door lipping fixed to manufacturer's recommendation.
  - Allow for aluminium threshold strips as manufacturer's recommendation. Planted on anti- finger traps.

### **120 External solid aluminium doorset system type ED-B3/B4**

#### EXTERNAL SOLID DOUBLE DOORS TO KITCHEN AND COFELEY PLANT ROOM

- Type: panel aluminium door set
- Finish: PPC
- Allow for stainless steel ironmongery, aluminium flashings and cills.

### **120 External fully glazed aluminium doorset system type ED-A1**

#### EXTERNAL FULLY GLAZED SINGLE DOOR WITH DOUBLE GLAZED SIDE PANEL AND OVERPANEL TO CLASSROOMS

- Type: Fully glazed double doors

- Manufacturer: SAPA or similar
- Type: tbc
- Finish: PPC .
- Glazing: Insulated, double glazed units to subcontractor design to achieve specified overall thermal performance and solar control.
- Overall thermal performance of door: min average U-value: 1.9W/m2K
- Zone Interfaces: Co-ordinate to achieve required average U-value.
- Standard: To BS EN ISO 717-1.
- Other requirements: Allow for stainless steel ironmongery, aluminium flashing or cills as necessary. Allow for finger-protection hinges

### **120 External fully glazed aluminium doorset system type ED-B1/B2**

EXTERNAL DOUBLE DOORS WITH INSULATED DOUBLE GLAZED UNITS AND OVERHEAD DOUBLE GLAZED PANEL, TO MAIN HALL AND ST01

- Type: Fully glazed double doors with integral glazing
- Finish: PPC .
- Glazing: Insulated, double glazed units to subcontractor design to achieve specified overall thermal performance and solar control.
- Overall thermal performance of door: min average U-value: 1.9 W/m2K
- Zone Interfaces: Co-ordinate to achieve required average U-value.
- Standard: To BS EN ISO 717-1.
- Other requirements: Allow for stainless steel ironmongery, aluminium flashing or cills as necessary. Allow for finger-protection hinges

### **120 Internal doorset system type A**

INTERNAL WOOD FLUSH SINGLE DOORSETS, HEAVY DUTY / SEVERE DUTY, WITH VISION PANEL AS DRAWINGS

- Manufacturer: European Doors, or similar
  - Duty Category to DD171: Heavy duty / Severe Duty. Circulation doors to be severe duty. All other doors to be heavy duty.
  - Fire Resistance as BS476-22 and as shown on drawings
  - Sound insulation of completed doorset: as shown on drawings and Acoustic Consultants Report.
  - Door Leaf Facings: laminate, colours tbc by from standard range .
  - Lippings: hardwood lipping.
  - Finish as delivered: Full factory finish.
- Frame and architraves:
- Wood species: Softwood frames
  - Finish as delivered: Primed for painting on site
  - Glazing details: Vision panel as shown on component schedule
  - Beading: Timber beading to match door lipping fixed to manufacturer's recommendation.
  - Allow for aluminium threshold strips as manufacturer's recommendation. Planted on anti- finger traps.

### **120 Internal doorset system type A2/A3**

### **145 Industrial doorset system**

ROLLER SHUTTER TO SERVERY TO MAIN HALL WITH 60 MINUTES RESISTANCE

- Fire resistance: 60 minutes integrity and insulation each side.
- Arrangement: Vertical operation from floor level to ceiling.
- Finish as delivered: Polyester powder coated.
- Operation: Fail safe electrical.
- Other requirements: Shutter to close automatically upon activation of the fire alarm system.

### **185 Sliding stacking panel partition system**

SLIDING FOLDING ACOUSTIC PARTITIONS BETWEEN RECEPTION CLASSROOMS AND BETWEEN MAIN AND SMALL HALL

- Manufacturer: London Wall or similar.
- Product reference: TBC

- Sound insulation of completed system: Refer to drawings
- Arrangement: top hung single point suspension.
- Track system: by manufacturer
- Finish as delivered: Flush laminate
- Ironmongery: by manufacturer for operation of door.

## **25-50-95 Window systems**

### **125 Aluminium external window system type B**

ALUMINIUM THERMALLY BROKEN WINDOWS WITH INSULATED DOUBLE-GLAZED UNIT AND EXTERNALLY FIXED LOUVRES

- Window to be fitted with Monodraught Thermal Hybrid Unit at high level
- Internally opening solid casement window behind external louvres below thermal hybrid unit
- Finish: PPC
- Type: tbc
- U-Value: 1.4 W/m2K
- Manufacturer: SAPA or similar
- Other requirements: windows and glazing to SBD standards

### **125 Aluminium external window system type A**

ALUMINIUM THERMALLY BROKEN WINDOWS WITH INSULATED DOUBLE-GLAZED UNITS

- Finish: PPC
- Type: tbc
- U-Value: 1.4 W/m2K
- Opening lights with manual/teleflex operation
- Manufacturer: SAPA or similar approved
- Other requirements: windows and glazing to SBD standards

### **140 Internal timber glazed screen system type S1**

INTERNAL TIMBER GLAZED SCREENS TO SMALL HALL AND ST01

- Hardwood timber framed & beaded screen with clear safety glass to comply with acoustic and fire requirements.
- Fire resistance: Refer to Architects Screen Schedules and Fire Plans.
- Sound resistance: Refer to Acoustic Consultants drawings and Architects Schedules.
- Finish: Primed for site painting
- Glazing details: designed by the manufacturer to satisfy performance specification
- Fixings: to manufacturer's recommendation.

## **25-55-45 Louvre and shading systems**

### **150 Louvre window system type L1**

ALUMINIUM LOUVRE PANEL EXTERNALLY FIXED TO WINDOWS

- Horizontal extruded aluminium louvre panel.
- Finish: PPC finish to match window and curtain walling frames.

### **150 Louvres to external wall of Plant room and Cofeley Room type L2**

EXTERNAL ALUMINIUM LOUVRE PANEL

- Horizontal extruded aluminium louvre panel.
- Finish: PPC finish to match window and curtain walling frames.
- Other requirements:
- Plant room panel to be removeable for plant access
- Acoustic performance to be confirmed

## **25-80-15 Curtain walling systems**

### **175 Aluminium curtain walling system type A**

PPC ALUMINIUM THERMALLY BROKEN GLAZED CURTAIN WALLING WITH INSULATED DOUBLE-GLAZED UNITS TO MAIN ENTRANCE AND REAR OF FOYER

- Aluminium external cover caps with PPC finish
- Opaque glazing panels (back-painted internal pane) to intermediate panels in front of first floor slab at main entrance
- Fully-glazed external doors to match.
- High level PPC louvres as required and shown on architectural drawings
- Manufacturer: SAPA or similar

### **175 Aluminium curtain walling system type B**

PPC ALUMINIUM THERMALLY BROKEN GLAZED CURTAIN WALLING WITH INSULATED DOUBLE-GLAZED UNITS TO MAIN AND SMALL HALLS

- Aluminium external cover caps with PPC finish
- Intermediate opaque glazing panels with plasterboard lining internally
- Fully-glazed external doors to match.
- Low level PPC louvres as required and shown on architectural drawings
- Manufacturer: SAPA or similar

### **175 Aluminium curtain walling system type C**

PPC ALUMINIUM THERMALLY BROKEN GLAZED CURTAIN WALLING WITH INSULATED DOUBLE-GLAZED UNITS TO KS2 ENTRANCE AND MAIN LOBBY

- Aluminium external cover caps with PPC finish
- Fully-glazed external doors to match.
- Manufacturer: SAPA or similar

## **25-80-70 Rainscreen cladding systems**

### **120 Drained and back-ventilated rainscreen cladding system type B**

MECHANICALLY FIXED BRICK TILE CLADDING SYSTEM.

- Manufacturer: Weinerberger, or similar.
- System: Corium brick facade, or similar.
- Brick bonding: stretcher bond and vertical stretcher bond as architects drawings.
- Accessories: allow for tophat or z-profile sections fixed through rigid insulation to metsec SFS system.

## **25-80-76 Rigid sheet cladding systems**

### **170 Rigid sheet cladding system**

PPC ALUMINIUM CLADDING TO SIDE WALLS AND SOFFITS OF MAIN ENTRANCE AND REAR RECESS

- Soffit / substrate: Precast concrete planks/ Metsec framing.
- Manufacturer: TBC
- Joints: butted.
- Support system: pressed aluminium mechanical secret fix system.
- Thermal insulation: Insulation to achieve required u-value.

## **25-85-45 Lining and casing systems**

### **150 Metal framed wall lining system**

#### **WALL LINING (METAL FURRINGS) SYSTEM TO EXTERNAL WALLS**

Wall lining system with gypsum fibreboard lining.

- System manufacturer: Knauf dry lining systems or alternative of equivalent performance.
- System reference: TBC
- Structural soffit: precast concrete structural slab to SE detail.
- Linings: Soundboard or similar
- Insulation: not required
- Other Requirements: Fire stopping around service penetrations; Sockets backed using baffle boxes, intumescent putty pads or suitable rock mineral wool sufficient to maintain the fire/acoustic performance. Allow for vapour barrier to external walls.
- Finishing: Joint treatment: tbc

### **25-85-75 Rigid sheet fine lining and panelling systems**

#### **105 Acoustic panel lining system type A**

##### **ACOUSTIC PANEL LINING TO WALLS IN GENERAL TEACHING AREAS, SPECIALIST CLASSROOMS & LRC**

- Acoustic wall panels installed at high level. Absorption levels and area required as per Acoustic Consultants report and drawings.
- Substrate: Gypsum partition system.
- Manufacturer: Ecophon Limited, [www.ecophon.co.uk](http://www.ecophon.co.uk), or similar.
- Product reference: TBC
- Acoustic requirement: Class A

#### **105 Acoustic panel lining system type B**

##### **ACOUSTIC PANELS TO MAIN HALL AND SMALL HALL**

- Acoustic wall panels installed at high level. Absorption levels and area required as per Acoustic Consultants report and drawings.
- Substrate: Gypsum partition system.
- Manufacturer: Ecophon Limited, [www.ecophon.co.uk](http://www.ecophon.co.uk), or similar.
- Product reference: TBC
- Acoustic requirement: Class A

### **25-85-97 Wall tiling systems**

#### **140 Internal ceramic wall tiling system**

- Tiles: Glazed ceramic tiles on mortar bedding with primer for internal finishes to wet areas.
- Manufacturer/supplier: Johnson Tiles or similar
- Colour: from standard range

### **30-05-30 Fixed utilitarian access systems**

#### **165 Permanently-fixed vertical ladder system**

Galvanized steel vertical maintenance ladder with safety cage, guard rail and all other required accessories.

### **30-70-90 Waterproofing systems**

### **150 Loose-laid bentonite membrane external or sandwiched tanking system**

GAS PROOF WATERPROOF MEMBRANE LAID UNDER GROUND SLAB

- Manufacturer: Cetco or similar
- Product reference: Voltex or similar
- Gas proof requirement: CS2 in line with soil investigation and ground gas/vapour assessment.
- Other requirements: Allow for covering vertical face of ground slab with 200mm overlap with Volsheet laid vertically up to DPC level. Allow for Bentoseal between two sheets.

## **35-05-35 General fittings, furnishings and equipment (FF&E) systems**

### **135 Entrance matting. type A**

BARRIER MATTING TO ALL EXTERNAL DOOR AND ENTRANCES

- tbc

### **135 Reception Desk type B**

- Reception desk with two level counter.
- Other requirements: See architects drawings

### **135 Solar Control Roller Blinds to classrooms, offices, auxillary teaching areas, main hall, small hall, therapy room type C**

- Solar Control roller blinds with all other required accessories.
- Allow for manual control to single height glazing.
- Allow for electric operation to high level blinds
- Manufacturer: Faber Blinds UK Ltd or similar

## **35-05-50 Minor joinery systems**

### **150 Wood Skirting**

MEDIUM DENSITY FIBREBOARD SKIRTING BOARDS

## **35-70-70 Sanitary appliance systems**

### **114 Accessible Shower area assembly**

DOCUMENT M PACKAGE SHOWER ROOM PACK TO HYGIENE ROOM

- Manufacturer: Armitage Shanks, or similar
- Product reference: Doc M Shower Room Pack
- WRAS approved

### **120 Janitorial unit assembly**

CLEANERS SINKS

- Heavy duty cleaner's sink with integral splashback
- Manufacturer: Armitage Shanks or similar
- Product reference: S5900 Alder Sink or similar
- WRAS approved

### **124 Wash basin assembly**

WASH BASINS TO PUPIL TOILETS

- Manufacturer: Armitage Shanks or similar.
- Product reference: tbc.



- Water supply: Thermostatic basin mixer tap.
- WRAS approved

#### **134 WC assembly**

WCs and CISTERNS TO PUPIL TOILETS

- Manufacturer: Armitage Shanks or similar
- Product Reference: tbc. Allow for range of sizes to suit age range.
- Type: Back to wall, concealed cistern.
- WRAS approved

#### **140 Accessible WC package assembly**

DOCUMENT M PACKAGE - STANDARD DISABLED WC SUIT

- Manufacturer: Armitage Shanks or similar
- Product Reference: Doc M pack
- WRAS approved.

#### **190 Sanitary accessories type A**

CHANGING BENCH TO HYGIENE ROOM

- Bench: Height adjustable changing bench

#### **190 Sanitary accessories type B**

PUPIL TOILET AND DISABLED TOILET ACCESSORIES

- Accessories: allow for wall mounted mirrors. Paper towel dispensers, soap dispensers, toilet roll holders by client.

### **35-80-25 External signage and interpretation systems**

#### **110 Fixed external signage system type A**

EXTERNAL SIGNAGE TO MAIN ENTRANCE

- Manufacturer: Purpose made PPC steel fabricated entrance signage comprising fixed to primary structure with concealed fixings.

### **35-80-30 Fire and safety signage systems**

#### **110 Safety signage system**

FIRE SIGNAGE SYSTEMS FOR ESCAPE ROUTE

- System manufacturer: TBC
- Product reference: TBC
- Layout and dimensions: TBC
- Sign type: Photoluminescent .

### **35-80-40 Internal architectural signage systems**

#### **110 Internal fixed architectural signage system type A**

SIGNAGE SYSTEM VINYL GRAPHICS FOR INTERNAL WAYFINDING

Signage type: Vinyl applied graphics and lettering, wall mounted.

Artwork: Concept design by Architect.

Wayfinding: incorporated

Layout and dimensions: to be advised

## **35-85-40 Intumescent coating systems**

### **145 Intumescent coating system**

PROTECTIVE COATING INTUMESCENT PAINT TO INTERNAL STEELWORK - SEE STRUCTURAL ENGINEERS FOR PERFORMANCE, WHERE REQUIRED

- Location: Members to receive treatment to be agreed with Building Control.
- Fire resistance to BS 476-21: 60 minutes.
- Preparation and priming: By steelwork contractor, to structural engineers specification.
- Manufacturer: Nullifire or similar.
- Product reference: System S: S707-60 or alternative of equivalent performance.
- Finish: Visible areas: decorative finish.
- Number of coats: As recommended by manufacturer and in compliance with structural engineers specification.
- Colour: To be confirmed from standard RAL range.

## **35-85-60 Painting and clear finishing systems**

### **195 Water-borne paint system type A**

WASHABLE PAINT TO GYPSUM FIBREBOARD WALL SURFACES

- Surfaces: Gypsum plasterboard
- Manufacturer: Akzonobel or similar.
- Product: Dulux Trade Diamond Matt or similar

### **195 Water-borne paint system type C**

EGGSHELL PAINT TO INTERNAL TIMBER / MDF SKIRTINGS / SILLS / LININGS / TRIMS

- Manufacturer: Akzonobel or similar
- Product reference: Dulux Diamond Eggshell, with low VOC, or similar.

### **195 Water-borne paint system type B**

MATT EMULSION PAINT TO CEILING SURFACES

- Surfaces: Plasterboard
- Manufacturer: Akzonobel or similar.
- Product: Dulux Trade Matt with low VOC, or similar.

### **195 Water-borne paint system type E**

MATT EMULSION PAINT TO EXPOSED SOFFIT CEILING SURFACES

- Surfaces: Precast concrete planks
- Manufacturer: Akzonobel or similar.
- Product: Dulux Trade Matt with low VOC, or alternative of equivalent performance .

### **195 Water-borne paint system type F**

SATIN PAINT TO INTERNAL METALWORK

- Manufacturer: Akzonobel or similar.
- Product reference: Dulux Trade Eggshell, with low VOC, or similar