

Feilden Clegg Bradley Studios

National Museums Liverpool

NML Events Welfare Facilities

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NML Events Welfare Facilities_ Martin
Luther King Building

For Tender

First Issue

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Temporary Welfare Facilities for the Martin Luther King
Building.

Contents

C20 Demolition.....	1
K10 Gypsum board dry linings/ partitions/ ceilings.....	5
K11 Rigid sheet flooring/ sheathing/ decking/ sarking/ linings/ casings	7
K13 Rigid sheet fine linings and panelling.....	9
K32 Panel cubicles/ duct and wall linings/ screens	12
L20 Doors/ shutters/ hatches	14
M10 Cement based levelling/ wearing screeds.....	17
M50 Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting.....	21
M60 Painting/Clear Finishing.....	25
N10 General fixtures/ furnishings/ equipment	30
N13 Sanitary appliances and fittings	32
P21 Door/ window ironmongery.....	38

C20 Demolition

General requirements

110 Desk study/ Survey Type A

1. **Scope:** Before starting deconstruction/ demolition work, examine available information, and carry out a survey of:
 - 1.1. **Survey as Existing:** Prior to demolition Contractor to carry out a detailed survey of the existing to provide accurate General Arrangement drawings of the space prior to carrying out Construction drawings for Client sign off.
 - 1.2. the structure or structures to be deconstructed/ demolished,
 - 1.3. the site on which the structure or structures stand, and
 - 1.4. the surrounding area.
2. **Report and method statements:** Submit, describing:
 - 2.1. Form, condition and details of the structure or structures, the site, and the surrounding area.
 - 2.1.1. **Extent:**
 - 2.2. Type, location and condition of features of historical, archaeological, geological or ecological importance.
 - 2.3. Type, location and condition of adjoining or surrounding premises that might be adversely affected by removal of the structure or structures, or by noise, vibration and/ or dust generated during deconstruction/ demolition.
 - 2.4. Identity and location of services above and below ground, including those required for the Contractor's use, and arrangements for their disconnection and removal.
 - 2.5. Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - 2.6. Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.7. Proposed programme of work, including sequence and methods of deconstruction/ demolition.
 - 2.8. Details of specific pre-weakening required.
 - 2.9. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.10. Arrangements for control of site transport and traffic.
 - 2.11. **Special requirements:**
3. **Format of report:**

120 Extent of deconstruction/ demolition

1. **General:** Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to Refer to demolition plan P-015 . Demolition generally to comprise: One lightweight stud wall and associated doors to room G.06 & G.08, blinds, carpet and floor finishes obsolete services including including all light fittings and conduits, floor boxes, ceilings, ceiling and wall access hatches (to be replaced with new). NB Privacy must be maintained throughout the works, contractor to allow for temporary window coverings throughout works until film applied. Remove all existing paper, sand and make good walls, filling and skimming where required to provide a smooth sound substrate. .

150 Features to be retained

1. **General:** Keep in place and protect the following: Decorative timber dado rail, decorative moulded window reveals joinery, timber skirting, timber door architraves, radiators, existing masonry walls and plaster .

Services affected by deconstruction/ demolition

210 Services regulations

1. **Work carried out to or affecting new and/ or existing services:** Carry out in accordance with the byelaws and/ or regulations of the relevant Statutory Authority.

220 Location of services

1. **Services affected by deconstruction/ demolition work:** Locate and mark positions.
2. **Mains services marking:** Arrange with the appropriate authorities for services to be located and marked.
 - 2.1. **Marking standard:** In accordance with National Joint Utilities Group 'Guidelines on the positioning and colour coding of underground utilities' apparatus'.

230 Services disconnection arranged by contractor

1. **General:** Arrange with the appropriate authorities for disconnection of services and removal of fittings and equipment owned by those authorities prior to starting deconstruction/ demolition.

231 Services disconnection arranged by employer

1. **General:** The Employer will arrange with the appropriate authorities for disconnection of services and removal of fittings and equipment owned by those authorities prior to deconstruction/ demolition, as follows:
2. **Timing:** Do not start deconstruction/ demolition until disconnections are completed.

232 Services disconnection arranged by employer and contractor

1. **Responsibility:** The Employer will arrange with the appropriate authorities for disconnection of services and removal of fittings and equipment owned by those authorities prior to deconstruction/ demolition, as follows:
2. **Disconnection of remaining services:** Arrange with the appropriate authorities. Remove fittings and equipment not owned by those authorities.
3. **Timing:** Do not start deconstruction/ demolition until disconnections are completed.

240 Disconnection of drains

1. **General:** Locate, disconnect and seal disused foul and surface water drains.
2. **Sealing:** Permanent, and within the site.

250 Live foul and surface water drains

1. **Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings**
 - 1.1. Protect; maintain normal flow during deconstruction/ demolition.
 - 1.2. Make good any damage arising from deconstruction/ demolition work.
 - 1.3. Leave clean and in working order at completion of deconstruction/ demolition work.
2. **Other requirements:**

260 Service bypass connections

1. **General:** Provide as necessary to maintain continuity of services to occupied areas of the site on which the deconstruction/ demolition is taking place and to adjoining sites/ properties.
2. **Minimum notice to adjoining owners and all affected occupiers:** 72 hours, if shutdown is necessary during changeover.

270 Services to be retained

1. **Damage to services:** Give notice, and notify relevant service authorities and/ or owner/ occupier regarding damage arising from deconstruction/ demolition.
2. **Repairs to services:** Complete as directed, and to the satisfaction of the service authority or owner.

Deconstruction/ demolition work

310 Workmanship

1. **Standard:** Demolish structures in accordance with BS 6187.
2. **Operatives**
 - 2.1. Appropriately skilled and experienced for the type of work.
 - 2.2. Holding, or in training to obtain, relevant CITB Certificates of Competence.
3. **Site staff responsible for supervision and control of work:** Experienced in the assessment of risks involved and methods of deconstruction/ demolition to be used.

330 Dust control

1. **General:** Reduce airborne dust by periodically spraying deconstruction/ demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris. Dust cannot be allowed to migrate to other areas of the building, appropriate measure need to be included such as sealing up doors, and if dust does enter other spaces these must be thoroughly cleaned.
2. **Lead dust:** Submit method statement for control, containment and clean-up regimes.

335 Protection of adjoining spaces and rest of building through demolition and works

1. **General:** Contractor to provide adequate robust floor and door protection to the NMB Atrium and any adjacent areas to ensure no damage to the existing building during the duration of the works.
2. **Lead dust:** Submit method statement for approval for the protection of the building throughout the works.

340 Health hazards

1. **Precautions:** Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the Works.

360 Structures to be retained

1. **Extent:**
2. **Parts which are to be kept in place:** Protect.
3. **Interface between retained structures and deconstruction/ demolition:** Cut away and strip out with care to minimize making good.

391 Asbestos-containing materials – unknown occurrences

1. **Discovery:** Give notice immediately of suspected asbestos-containing materials when discovered during deconstruction/ demolition work. Avoid disturbing such materials.

2. **Removal:** Submit statutory risk assessments and details of proposed methods for safe removal.

410 Unforeseen hazards

1. **Discovery:** Give notice immediately when hazards such as unrecorded voids, tanks, chemicals, are discovered during deconstruction/ demolition.
2. **Removal:** Submit details of proposed methods for filling, removal, etc.

450 Site condition at completion

1. **Debris:** Clear away and leave the site in a tidy condition.
2. **Other requirements:**

Materials arising - Not Used

Ω End of Section

K10

Gypsum board dry linings/ partitions/ ceilings

Types of dry lining

220 Proprietary suspended ceiling system

1. Standard: To BS EN 13964.
2. Evidence of compliance: All ceilings kits to be CE marked. Submit Declaration of Performance (DoP).
3. Manufacturer: British Gypsum or similar approved
 - 3.1. Product reference: CasoLine MF Persomance
4. Lining board: 12.5 mm plasterboard
 - 4.1. Finishing: Skim coat plaster Seamless jointing
 - 4.2. Accessories: Metal beads/ stops recommended by lining board manufacturer
5. Suspension system
 - 5.1. Grid centres: 450 mm
 - 5.2. Hangers: Type recommended by board manufacturer
 - 5.2.1.Length: To give ceiling soffit height above finished floor level of 3340 mm (current ceiling height)
 - 5.2.2.Centres: 900 mm
 - 5.2.3.Top fixing: To suit structural soffit of existing substrate.
6. Insulation: Not required
 - 6.1. Thickness: Not applicable
7. Access units: Required
8. Integrated services fittings: Hangers and housings for linear luminaires
9. Electrical continuity and earth bonding: Not required
10. Accessories/ Other requirements: None

General/ preparation - Not Used

Components

400 Gypsum boards generally

1. Standard
 - 1.1. Gypsum plasterboard to BS EN 520.
 - 1.2. Gypsum fibre board to BS EN 15283-2.
 - 1.3. Evidence of compliance: All sheets to be CE marked. Submit Declaration of Performance (DoP).

430 Access panels

1. Description: To Suspended Ceiling as K10/220
2. Type: Plasterboard access panel with beaded frame
 - 2.1. Sizes: 450 x 450 mm (tbc once existing ceiling removed)
3. Frame: Bead for taping and jointing
4. Panel: Plasterboard infill
5. Lock: Tamper proof and operated by castellated key

Installation

445 Ceilings

1. **Sequence:** Fix boards to ceilings before installing dry lined walls and partitions.
2. **Orientation of boards:** Fix with bound edges at right angles to supports and with ends staggered in adjacent rows.
3. **Two layer boarding:** Stagger joints between layers.

485 Suspended ceiling grids

1. **Setting out:** Accurately aligned and level.
 - 1.1. **Grid members and hangers:** Centres to suit specified linings and imposed loads.
 - 1.2. **Additional grid members:** Provide bracing and stiffening at upstands, partition heads, access hatches, etc.
2. **Fixing:** Securely at perimeters, grid joints, top and bottom hanger fixings.

Finishing - Not Used

Ω End of Section

K11

Rigid sheet flooring/ sheathing/ decking/ sarking/ linings/ casings

Types of flooring/ sheathing/ decking/ sarking/ lining/ casings

110 Wood-based sheets generally

1. Standard: To BS EN 13986.
 - 1.1. Evidence of compliance: All sheets to be CE marked. Submit Declaration of Performance (DoP).

435 Oriented strand board wall sheathing

1. Substrate: To form plenum box in front of West window
 - 1.1. Additional supports: Timber battens fixed to the window reveal to support wall sheathing.
2. Sheathing: Oriented strand board to BS EN 300, Type OSB/3.
 - 2.1. Thickness: 18 mm
 - 2.2. Fire performance: Not applicable
 - 2.3. Other requirements: Sealant to form a sealed box around the whole window

860 Medium board

1. Description:
2. Substrate:
 - 2.1. Additional supports:
 - 2.2. Standard: To BS EN 622-3.
 - 2.3. Type:
 - 2.4. Manufacturer/ Supplier:
 - 2.5. Product reference:
 - 2.6. Special finish:
 - 2.7. Thickness:
 - 2.8. Fire performance:
 - 2.8.1.Reaction to fire:
 - 2.8.2.Resistance to fire:
 - 2.9. Edges:
 - 2.10. Other requirements:
3. Setting out: Long edges running
 - 3.1. Gap between adjacent boards:
4. Fixing to supports
 - 4.1. Fasteners:
 - 4.2. Fixing centres (maximum):
 - 4.3. Around board edges:
 - 4.4. Along intermediate supports:
 - 4.5. Fixing distance from edges (minimum):
5. Joint treatment:
6. Accessories:

Workmanship - Not Used

Ω End of Section

K13

Rigid sheet fine linings and panelling

Types of lining and panelling

105 Wood-based sheets generally

1. Standard: To BS EN 13986.
 - 1.1. Evidence of compliance: All sheets to be CE marked. Submit Declaration of Performance (DoP).

110 Wood panelling

120 Wood veneered panel lining

1. Description: Toilet Pod walls and ceiling
2. Substrate: Softwood framing
3. Battens: Softwood free from decay and active insect attack and with no knots wider than half the width of the section.
 - 3.1. Finished size: 38 x 75mm
 - 3.2. Moisture content at time of fixing (maximum): 18%.
 - 3.3. Spacing (centres): 400mm (tbc by Structural Engineer)
 - 3.4. Method of fixing: Plugged and screwed
4. Insulation: 70mm Glass mineral wool
5. Panels
 - 5.1. Core material: Plywood, bonding quality to BS EN 314-2, Class 1
 - 5.1.1. Thickness: 18mm
 - 5.1.2. Fire retardant impregnation treatment: As section Z12 and Wood Protection Association Commodity Specification FR1; Type D1
 - 5.2. Face veneer: Free from decay and holes.
 - 5.2.1. Supplier: Contractor's choice
 - 5.2.2. Wood species: Birch
 - 5.2.3. Cutting: Quarter cut
 - 5.2.4. Arrangement: Quarter matched
 - 5.3. Backing veneer: As recommended by fabricator.
 - 5.4. Edge treatment: Concealed solid birch lipping all round
 - 5.5. Fabrication: As section Z10.
 - 5.5.1. Adhesive: To BS EN 204; Type: To match durability class of core material.
 - 5.6. Finish (to match approved sample): Two coats matt finish lacquer Nonintumescent clear finish to give Class C reaction to fire rating to BS EN 13501-1
 - 5.7. Moisture content at time of fixing: As recommended by fabricator to suit environmental conditions.
6. Installation
 - 6.1. Method of fixing panels: Lost head nails, stopped and sealed
7. Accessories: Coved vinyl skirting to WC cubicles. Ply faced access panel to service riser wall between Unisex cubicle and Disabled WC and where shown on RCP's. Scorched burnt timber lines in plywood forming skirting, and picture rail datums.

120 Wood veneered panel lining Type A

1. **Description:** Scribed ply infill piece to the side of WC timber box to two locations indicated on drawings to close off gap between wall and WC block.
2. **Substrate:** Softwood framing
3. **Panels**
 - 3.1. **Core material:** Plywood, bonding quality to BS EN 314-2, Class 1
 - 3.1.1. **Thickness:** 18mm
 - 3.2. **Finish (to match approved sample):** Painted white
4. **Accessories:** Florescent lighting to recess formed to BH details

160 Acoustic ceiling rafts

1. **Description:** Suspended acoustic rafts to WC lobby
2. **Substrate:** New MF ceiling
3. **Panels**
 - 3.1. **Manufacturer:** Ecophon or similar approved
 - 3.1.1. **Product reference:** Ecophon Solo Freedom
 - 3.2. **Board/ Panel type:** Ecophon Solo Rectangle
 - 3.3. **Thickness:** 40mm
 - 3.4. **Core material:** Glass Wool
 - 3.5. **Facing:** Akutex FT surface.
 - 3.6. **Moisture content at time of fixing:** As recommended by fabricator to suit environmental conditions.
 - 3.7. **Edge treatment:** straight cut and painted.
4. **Installation**
 - 4.1. **Method of fixing panels:** Adjustable wire hangers.
 - 4.2. **Joint treatment:** N/A
5. **Included features:** N/A
6. **Accessories:** N/A

General requirements

220 Material samples

1. **Representative samples of designated materials:** Submit before placing orders.
2. **Designated materials:** Wood Ply Veneer panelling as K13/120

260 Environmental conditions

1. **General requirements prior to starting work specified in this section:** Building weathertight; wet trades completed and affected areas dried out.
2. **Temperature and humidity before, during and after fixing lining/ panelling:** Maintained at levels approximating to those which will prevail after building is occupied.

Fabrication/ fixing/ finishing

310 Accuracy of fabrication

1. **Site dimensions:** Take as necessary before starting fabrication.
 - 1.1. **Discrepancies with drawings:** Report without delay and obtain instructions before proceeding.

2. Permissible deviations for panels
 - 2.1. Length: ± 1.5 mm.
 - 2.2. Width: ± 1.5 mm.
 - 2.3. Squareness (taking the longer of 2 sides at a corner as a baseline and measuring the deviation of the shorter side from the baseline perpendicular): ± 1.5 mm in 1 m.
 - 2.4. Flatness (of panels with a core thickness of 12 mm and over, as delivered to site): ± 1 mm under a 600 mm straightedge.

320 Laminated timber cores for wood veneered panels

1. Face grain direction: Perpendicular to specified direction of veneer grain.
 - 1.1. Alternative arrangement: Panels cross veneered before applying face veneer.

480 Clear finished wood

1. Nail holes: Filled with stopping coloured to match wood.
2. Prepared surface: Smooth, closed and free from sanding marks.
3. Finish: Smooth, free from brush marks, nibs, sags, runs and other defects.

Ω End of Section

K32

Panel cubicles/ duct and wall linings/ screens

To be read with preliminaries/ general conditions.

112 Fully framed panel cubicles

120 Panel cubicles

130 Privacy screens

140 Duct/ wall linings – panels only

150 Duct/ wall linings – panels and proprietary frames

160 Duct linings – preplumbed panels and proprietary frames

160 Duct linings – preplumbed panels and proprietary frames Type A

1. Manufacturer: Venesta Washroom Systems Ltd
 - 1.1. Web: www.venesta.co.uk
 - 1.2. Email: marketing@venesta.co.uk
2. Product reference: IPS Coloucoat
3. Preplumbing: As section N13
4. Panel
 - 4.1. Width (coordinating): Refer to Architect's drawings
 - 4.2. Facings Colour/ Finish: Sprayed with one coat of primer and finished with pigmented polyurethane lacquer. Colour tbc
 - 4.3. Edge treatment: As facings
5. Flashgaps
 - 5.1. Material: 18 mm thick medium density fibreboard with polyurethane lacquer
 - 5.2. Colour: As panel

180 Duct panel support framing – site fabricated softwood

1. Description: To toilet ducts
2. Framing: Softwood, free from decay and active insect attack and with no knots wider than half the width of the section.
 - 2.1. Finished size: 47 x 65* mm (*regularized)
 - 2.2. Moisture content at time of fixing (maximum): 18%.
 - 2.3. Spacing (centres): As panel manufacturer's recommendations
 - 2.4. Method of fixing: As panel manufacturer's recommendations
3. Treatment: None

210 Samples

1. General: Before placing orders submit representative samples of the following: Panel and door material and colours.
2. Delivered materials/ products: To match samples. To match samples.

220 Control samples

1. **General:** Complete samples as part of finished work and obtain approval of appearance before proceeding.
2. **Types:** Duct panels to sample cubicles, as clause 160A
 - 2.1. **Locations:** Obtain instructions

250 Installation

1. **Programming:** Do not install cubicles or duct/ wall panels before building is weathertight, wet trades have finished their work, wall and floor finishes are complete, and the building is well dried out.
2. **Accuracy:** Set out to ensure frames and/ or panels and doors are plumb, level and accurately aligned.
3. **Modifications:** Do not cut, plane or sand prefinished components except where shown on drawings.
4. **Fixing:** Secure components using methods and fasteners recommended by the cubicle/ panel manufacturer. Prevent pulling away, bowing or other distortions to frames, panels and doors.
5. **Moisture and thermal movement:** Make adequate allowance for future movement.

Ω End of Section

L20

Doors/ shutters/ hatches

General

110 Evidence of performance

1. **Certification:** Provide independently certified evidence that all incorporated components comply with specified performance requirements.

112 Timber procurement

1. **Timber (including timber for wood-based products):** Obtained from well-managed forests and/ or plantations in accordance with:
 - 1.1. The laws governing forest management in the producer country or countries.
 - 1.2. International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
2. **Documentation:** Provide either:
 - 2.1. Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - 2.2. Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
3. **Certification scheme:** Sustainable Forestry Initiative (SFI), with Chain of Custody/ Programme for the Endorsement of Forest Certification (PEFC)
 - 3.1. **Other evidence:** -

150 Site dimensions

1. **Procedure:** Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
2. **Designated items:**

170 Control samples

1. **Procedure**
 - 1.1. Finalize component details.
 - 1.2. Fabricate one of each of the following designated items as part of the quantity required for the project.
 - 1.3. Obtain approval of appearance and quality before proceeding with manufacture of the remaining quantity.
2. **Designated items:** WC birch ply door

Products

410 Wood doorsets

1. **Description:** Doors to WC's and Baby Change
2. **Manufacturer:** Graefe or similar approved
 - 2.1. **Product reference:** Solid core
3. **Door leaf:**
4. **Core:** Solid laminated softwood
5. **Thickness:** 44 mm
6. **Facings:** Interior grade birch plywood to match pod walls as spec clause K13/120

7. Lippings: Hardwood lipping applied to all edges before facings are applied.
8. Finish as delivered: Full factory finish
9. Frame and architraves
 - 9.1. Type: Frame only, no architraves to WC doorsets
10. Wood species: European birch to match doors and pod walls as K13/120
11. Finish as delivered: Full factory finish
12. Preservative treatment: Not required
13. Glazing/ Infill details: Not applicable
 - 13.1. Manifestation: Not applicable
14. Beading: Not required
15. Ironmongery: Brass lever handles as ironmongery P21
16. Perimeter seals: Not required
17. Thermal performance (U-value maximum): Manufacturer's standard
18. Other requirements: To receive 15mm diameter burnt timber signage for unisex, baby-change and disabled WC scorched into timber door.
Allow for a ventilation undercut of 15mm to each door.
19. Fixing: Plugged and screwed

630 Hatches

1. Description: Access hatches through birch ply ceiling to WC's. To allow servicing to ventilation ductwork and existing hatches. As shown on the RCP
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Performance:
4. Resistance to fire: Not Applicable
5. Smoke control: Not Applicable
6. Self-closing: Not Applicable
7. Durability: Not applicable
8. Operation: Manual operation
9. Other requirements: To be birch ply faced to match ceiling

Execution

710 Protection of components

1. General: Do not deliver to site components that cannot be installed immediately or placed in clean, dry, floored and covered storage.
2. Stored components: Stacked on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.

730 Priming/ Sealing

1. Wood surfaces inaccessible after installation: Primed or sealed as specified before fixing components.

750 Fixing doorsets

1. Timing: After associated rooms have been made weathertight and the work of wet trades is finished and dried out.

760 Building in

1. **General:** Not permitted unless indicated on drawings.

790 Fixing of wood frames

1. **Spacing of fixings (frames not predrilled):** Maximum 150 mm from ends of each jamb and at 600 mm maximum centres.

800 Fixing of loose thresholds

1. **Spacing of fixings:** Maximum 150 mm from each end and at 600 mm maximum centres.

820 Sealant joints

1. **Sealant**
 - 1.1. **Manufacturer:** Adshedd Ratcliffe or similar approved
 - 1.1.1. **Product reference:** Contractor's choice
 - 1.2. **Colour:** clear
 - 1.3. **Application:** As section Z22 to prepared joints. Triangular fillets finished to a flat or slightly convex profile.

830 Fixing ironmongery generally

1. **Fasteners:** Supplied by ironmongery manufacturer.
 - 1.1. **Finish/ Corrosion resistance:** To match ironmongery.
2. **Holes for components:** No larger than required for satisfactory fit/ operation.
3. **Adjacent surfaces:** Undamaged.
4. **Moving parts:** Adjusted, lubricated and functioning correctly at completion.

850 Location of hinges

1. **Primary hinges:** Where not specified otherwise, positioned with centre lines 250 mm from top and bottom of door leaf.
2. **Third hinge:** Where specified, positioned on centre line of door leaf .
3. **Hinges for fire resisting doors:** Positioned in accordance with door leaf manufacturer's recommendations.

860 Installation of emergency exit devices

1. **Standard:** Unless specified otherwise, install panic bolts/ latches in accordance with BS EN 1125.

Ω End of Section

M10

Cement based levelling/ wearing screeds

Types of screed

140 Proprietary polymer modified levelling screeds

1. Description: For deep section repairs eg floor boxes to WC floor following demolition and enabling works.
2. Substrate: Existing concrete/ screed
3. Screed manufacturer: Flowcrete UK Ltd
 - 3.1. Product reference: Isocrete PQ
4. Screed construction: Fully bonded.
5. Thickness
 - 5.1. Nominal: tbc
 - 5.2. Minimum: 12mm
 - 5.3. Maximum: 150mm
6. Mix: To screed manufacturer's recommendations
7. In situ crushing resistance (ISCR) category: A (3 mm maximum indentation)
8. Flatness/ Surface regularity class: SR2
9. Finish: Trowelled, as clause 540
 - 9.1. To receive: Levelling screed as 160 as required then sheet vinyl
10. Other requirements: None

160 Proprietary self smoothing levelling screeds

1. Description: To take out any floor irregularities following demolition and enabling works prior to laying sheet vinyl floor.
2. Substrate: Existing Concrete/ screed or levelling screed as 140
3. Screed manufacturer: Flowcrete UK Ltd or similar approved
 - 3.1. Product reference: Isocrete 1500
4. Screed construction: Fully bonded, as clause 260
5. Thickness
 - 5.1. Nominal: 3mm
 - 5.2. Minimum: featheredge
 - 5.3. Maximum: 20mm
6. Standards: In accordance with BS 8204-7.
7. In situ crushing resistance (ISCR) category: B (4 mm maximum indentation)
 - 7.1. Mass of test weight: 4 kg
8. Flatness/ Surface regularity class: SR2
9. Finish to receive: Sheet Vinyl flooring as M50/150
10. Other requirements: None

Generally/ preparation

205 Design life of screeds

1. Duration: 50 years
 - 1.1. Subject to reasonable wear and tear.

2. **Location:** New WC toilet block
3. **Condition of use:** Subject to correct loading and traffic usage throughout duration.

210 Suitability of substrates

1. **General**
 - 1.1. Suitable for specified levels and flatness/ regularity of finished surfaces. Consider permissible minimum and maximum thicknesses of screeds.
 - 1.2. Sound and free from significant cracks and gaps.
2. **Concrete strength:** In accordance with BS 8204-1, Table 2.
3. **Cleanliness:** Remove plaster, debris and dirt.
4. **Moisture content:** To suit screed type. New concrete slabs to receive fully or partially bonded construction must be dried out by exposure to the air for minimum six weeks.

220 Proprietary levelling/wearing screeds

1. **General:** Materials, mix proportions, mixing methods, minimum/ maximum thicknesses and workmanship must be in accordance with recommendations of screed manufacturer.
2. **Standard:**

260 Fully bonded construction

1. **Preparation:** Generally in accordance with BS 8204-1.
2. **Removing mortar matrix:** Shortly before laying screed, expose coarse aggregate over entire area of hardened substrate.
3. **Texture of surface:** Suitable to accept screed and achieve a full bond over complete area.
4. **Bonding coat:** Manufacturer's standard

Batching/ mixing

302 Cements

1. **Cement types:** In accordance with BS 8204-1, clause 5.1.3.

305 Aggregates

1. **Sand:** To BS EN 13139.
 - 1.1. **Grading limits:** In accordance with BS 8204-1, Table B.1.
2. **Coarse aggregates for fine concrete levelling screeds**
 - 2.1. **Standard:** To BS EN 12620.
 - 2.2. **Designation:** 4/10.
3. **Lightweight aggregates:** In accordance with BS 8204-1, Annex A.

310 Batching with dense aggregates

1. **Mix proportions:** Specified by weight.
2. **Batching:** Select from:
 - 2.1. **Batch by weight.**
 - 2.2. **Batch by volume:** Permitted on the basis of previously established weight:volume relationships of the particular materials. Use accurate gauge boxes. Allow for bulking of damp sand.

330 Mixing

1. **Water content:** Minimum necessary to achieve full compaction, low enough to prevent excessive water being brought to surface during compaction.
2. **Mixing:** Mix materials thoroughly to uniform consistency. Mixes other than no-fines must be mixed in a suitable forced action mechanical mixer. Do not use a free fall drum type mixer.
3. **Consistency:** Use while sufficiently plastic for full compaction.
4. **Ready-mixed retarded screed mortar:** Use within working time and site temperatures recommended by manufacturer. Do not retemper.

335 In situ crushing resistance (ISCR)

1. **Standards and category:** In accordance with BS 8204-1, table 4.
 - 1.1. **Testing of bonded and unbonded screeds:** To Annex D.
 - 1.2. **Testing of floating levelling screeds:** To Annex E.

340 Adverse weather

1. **Screeds surface temperature:** Maintain above 5°C for a minimum of four days after laying.
2. **Hot weather:** Prevent premature setting or drying out.

Laying

345 Level of screed surfaces

1. **Permissible deviation:** (allowing for thickness of coverings) ± 7 mm from datum.

355 Flatness/ Surface regularity of floor screeds

1. **Standard:** In accordance with BS 8204-1, Table 5.
2. **Test:** In accordance with BS 8204-1, Annex C.
3. **Sudden irregularities:** Not permitted.

375 Compaction of screeds

1. **General:** Compact thoroughly over entire area.
2. **Screeds over 50 mm thick:** Lay in two layers of approximately equal thickness. Roughen surface of compacted lower layer then immediately lay upper layer.

392 General reinforcement

1. **Steel fabric:** To BS 4483.
 - 1.1. **Type:** Isocrete PP fibres
2. **Installation:** In accordance with BS 8204-1.

Finishing/curing

510 Finishing generally

1. **Timing:** Carry out all finishing operations at optimum times in relation to setting and hardening of screed material.
2. **Prohibited treatments to screed surfaces**
 - 2.1. **Wetting to assist surface working.**
 - 2.2. **Sprinkling cement.**

530 Smooth floated finish

1. **Finish:** Even texture with no ridges or steps.

540 Trowelled finish to levelling screeds

1. **Floating:** To an even texture with no ridges or steps.
2. **Trowelling:** To a uniform, smooth but not polished surface, free from trowel marks and other blemishes, and suitable to receive specified flooring material.

650 Curing

1. **General:** Prevent premature drying. Immediately after laying, protect surface from wind, draughts and strong sunlight. As soon as screed has set sufficiently, closely cover with polyethylene sheeting.
2. **Curing period (minimum):** Keep polyethylene sheeting in position for:
3. **Drying after curing:** Allow screeds to dry gradually. Do not subject screeds to artificial drying conditions that will cause cracking or other shrinkage related problems.

Ω End of Section

M50

Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting

Types of covering

150 Sheetting

1. Description: Vinyl sheet flooring to WC's and lobbies
2. Location: WC's and Lobbies
3. Base: Existing screed base with new levelling screed if required to take out minor surface irregularities to ensure a smooth level substrate.
 - 3.1. Preparation: Remove existing carpet as demolitions specification, remove all adhesive. Make good existing where removal of partition walls.
4. Fabricated underlay: Not required
5. Flooring roll
 - 5.1. Standard: To BS EN 14041.
 - 5.1.1.Evidence of compliance: Submit.
 - 5.2. Reaction to fire classification: -
 - 5.3. Material: Homogeneous PVC to BS EN ISO 10581
 - 5.4. Manufacturer: Altro
 - 5.4.1.Product reference: Altro Aquarius
 - 5.5. BS EN ISO 10874 class:
 - 5.6. Slip potential
 - 5.6.1.Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to BS 7976-1, -2 and -3: PTV ≥50 (Slider 96)
 - 5.6.2.Surface roughness (Rz) (minimum) to BS 1134: 20 micrometres
 - 5.7. Recycled content: 10%
 - 5.8. Width: 2000 mm
 - 5.9. Thickness: 2mm
 - 5.10. Colour/ pattern: TBC
6. Adhesive (and primer if recommended by manufacturer): As clause 640
7. Seam welding: Hot welding with complimentary coloured rod
8. Accessories: Vinyl coved skirting to WC's and Baby change toilets
9. Finishing: As manufacturer's recommendations
10. Other requirements: Clear sealant between the vinyl flooring of lobby and the existing painted timber skirting

General requirements

210 Workmanship generally

1. Base condition after preparation: Rigid, dry, sound, smooth and free from grease, dirt and other contaminants.
2. Finished coverings: Accurately fitted, tightly jointed, securely bonded, smooth and free from air bubbles, rippling, adhesive marks and stains.

220 Samples

1. Covering samples: Before placing orders, submit representative sample of each type.

250 Layout – roll materials

1. Setting out of seams: Agree setting out for sheeting types M50/ 150 .

251 Layout – seams in roll materials

1. Setting out: Minimise occurrences of seams and cross seams.
2. Cross seams: Not permitted in following locations:

330 Commencement

1. Required condition of works prior to laying materials
 - 1.1. Building is weathertight and well dried out.
 - 1.2. Wet trades have finished work.
 - 1.3. Paintwork is finished and dry.
 - 1.4. Conflicting overhead work is complete.
 - 1.5. Floor service outlets, duct covers and other fixtures around which materials are to be cut are fixed.
2. Notification: Submit not less than 48 hours before commencing laying.

340 Conditioning

1. Prior to laying: Condition materials by unpacking and separating in spaces where they are to be laid. Maintain resilient flooring rolls in an upright position. Unroll carpet and keep flat on a supporting surface.
2. Conditioning time and temperature (minimum): As recommended by manufacturer with time extended by a factor of two for materials stored or transported at a temperature of less than 10°C immediately prior to laying.

350 Environment

1. Temperature and humidity: Before, during and after laying, maintain approximately at levels which will prevail after building is occupied.
2. Ventilation: Before during and after laying, maintain adequate provision.

Preparing bases

410 New bases

1. Suitability of bases and conditions within any area: Commencement of laying of coverings will be taken as acceptance of suitability.

420 Existing bases

1. Notification: Before commencing work, confirm that existing bases will, after preparation, be suitable to receive coverings.
2. Suitability of bases and conditions within any area: Commencement of laying of coverings will be taken as acceptance of suitability.

430 New wet laid bases

1. Base drying aids: Not used for at least four days prior to moisture content testing.
2. Base moisture content test: Carry out in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
 - 2.1. Locations for readings: In all corners, along edges, and at various points over area being tested.
3. Commencement of laying coverings: Not until all readings show 75% relative humidity or less.

440 Substrates to receive thin coverings

1. **Trowelled finishes:** Uniform, smooth surface free from trowel marks and other blemishes. Abrade suitably to receive specified floor covering material.

460 Smoothing/ levelling underlayment compound

1. **Type:** As recommended by covering manufacturer
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Contractor's choice

470 Bases from which existing floor coverings have been removed

1. **Substrate:** Clear of covering and as much adhesive as possible. Skim with smoothing underlayment compound to give smooth, even surface.

Laying coverings

640 Adhesive fixing generally

1. **Adhesive type:** As specified, as recommended by covering/ underlay, manufacturer or as approved.
2. **Primer:** Type and usage as recommended by adhesive manufacturer.
3. **Application:** As necessary to achieve good bond.
4. **Finished surface:** Free from trowel ridges, high spots caused by particles on the substrate, and other irregularities.

670 Borders and feature strips in sheet material

1. **Curl:** Not acceptable.
2. **Corners:** Mitre joints.

740 Edgings and cover strips

1. **Manufacturer:** Gradus or similar approved
 - 1.1. **Product reference:** Threshold trim between atria and toilet lobby flooring materials
2. **Material/ finish:** Satin finished brass
3. **Fixing:** Secure with edge of covering gripped. Use matching fasteners where exposed to view

770 Skirtings

1. **Types:** Vinyl as M50/150 to WC's and baby change cubicles only.
2. **Manufacturer:** Altro
 - 2.1. **Product reference:** Submit proposals
3. **Fixing:** Submit proposals
 - 3.1. **Corners:** Mitre joints.

Completion

820 Finishing

1. **Description:**
2. **Cleaning operations**
 - 2.1. Wash floor with water containing neutral (pH 6-9) detergent. If necessary, lightly scrub heavily soiled areas.
 - 2.2. Rinse with clean water, removing surplus to prevent damage to adhesive. Allow to dry.

3. **Emulsion polish:** Two coats of a type recommended by covering manufacturer.

880 Waste

1. **Spare covering material:** Retain suitable material for patching. On completion submit pieces for selection. Hand over selected pieces to Employer.

Ω End of Section

M60

Painting/Clear Finishing

Coating systems

110 Emulsion paint

1. Description: To new MF ceiling
2. Manufacturer: ICI paints or similar
 - 2.1. Product reference: kitchen and bathroom paint
3. Surfaces: Tape and jointed Plasterboard as K10
 - 3.1. Preparation: Tape and fill joints
4. Initial coats: As recommended by manufacturer
5. Number of coats: One
6. Undercoats: As recommended by manufacturer
 - 6.1. Number of coats: Two
7. Finishing coats: Matt vinyl
 - 7.1. Number of coats: Two

110 Interior paint to existing plaster and masonry Walls

1. Description: Interior paint to existing plaster and masonry walls
2. Manufacturer: ICI paints or similar
 - 2.1. Product reference: kitchen and bathroom paint
3. Surfaces: Internal walls and soffits
 - 3.1. Preparation: Remove all wall paper- fill and sand down any holes. The condition of the wall beneath paper is unknown. Contractor to allow for possible skimming required prior to painting. Any loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in. Ensure that any paint materials left remaining and the underlying substrate is sound and adhering well. Any gloss or shiny surfaces should be thoroughly flattened down using sand or emery paper to create a good key.
4. Initial coats: kitchen and bathroom paint
5. Number of coats: 2
6. Undercoats: As recommended by manufacturer
 - 6.1. Number of coats: One
7. Finishing coats: Washable matt vinyl
 - 7.1. Number of coats: One

150 Eggshell/ Satin paint

1. Description: To Internal window frames, door frames, architraves, cornicing and panelling
2. Manufacturer: ICI paints
 - 2.1. Product reference: Eggshell kitchen and bathrooms paint
3. Surfaces: Previously decorated
 - 3.1. Preparation: Remove existing gloss paint
4. Initial coats: As recommended by manufacturer
 - 4.1. Number of coats: As recommended by manufacturer
5. Undercoats: As recommended by manufacturer

- 5.1. Number of coats: As recommended by manufacturer
- 6. Finishing coats: Eggshell mid sheen finish (20% sheen)
 - 6.1. Number of coats: As recommended by manufacturer

Generally

280 Protection

- 1. 'Wet paint' signs and barriers: Provide where necessary to protect other operatives and general public, and to prevent damage to freshly applied coatings.

300 Control samples

- 1. Sample areas of finished work: Carry out, including preparation, as follows:
- 2. Types of coating Location
- 3. M60/ 110. 150.
- 4. Approval of appearance: Obtain before commencement of general coating work.

321 Inspection of work stages

- 1. Programme for inspections: Submit as follows:
- 2. Types of coating Inspection at completion of
- 3. M60/ 110. 150.
- 4. Inspection: Give prior notice when each stage is ready for inspection.

Preparation

400 Preparation generally

- 1. Standard: In accordance with BS 6150.
- 2. Refer to any pre-existing CDM Health and Safety File.
- 3. Refer to CDM Construction Phase Plan where applicable.
- 4. Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
- 5. Preparation materials: Types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
- 6. Substrates: Sufficiently dry in depth to suit coating.
- 7. Efflorescence salts: Remove.
- 8. Dirt, grease and oil: Remove. Give notice if contamination of surfaces/ substrates has occurred.
- 9. Surface irregularities: Remove.
- 10. Joints, cracks, holes and other depressions: Fill flush with surface, to provide smooth finish.
- 11. Dust, particles and residues from preparation: Remove and dispose of safely.
- 12. Water based stoppers and fillers
 - 12.1. Apply before priming unless recommended otherwise by manufacturer.
 - 12.2. If applied after priming: Patch prime.
- 13. Oil based stoppers and fillers: Apply after priming.
- 14. Doors, opening windows and other moving parts
 - 14.1. Ease, if necessary, before coating.
 - 14.2. Prime resulting bare areas.

420 Fixtures and fittings

1. **Removal:** Before commencing work remove: All wall mounted fixtures and fitting and services identified in the demolitions specification C10 .
2. **Replacement:** Refurbish as necessary, refit when coating is dry.

430 Existing ironmongery

1. **Refurbishment:** Remove old coating marks. Clean and polish.

440 Previously coated surfaces generally

1. **Preparation:** In accordance with BS 6150, clause 11.5.
2. **Contaminated or hazardous surfaces:** Give notice of:
 - 2.1. Coatings suspected of containing lead.
 - 2.2. Substrates suspected of containing asbestos or other hazardous materials.
 - 2.3. Significant rot, corrosion or other degradation of substrates.
3. **Suspected existing hazardous materials:** Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
4. **Removing coatings:** Do not damage substrate and adjacent surfaces or adversely affect subsequent coatings.
5. **Loose, flaking or otherwise defective areas:** Carefully remove to a firm edge.
6. **Alkali affected coatings:** Completely remove.
7. **Retained coatings**
 - 7.1. Thoroughly clean to remove dirt, grease and contaminants.
 - 7.2. Gloss coated surfaces: Provide key.
8. **Partly removed coatings**
 - 8.1. **Additional preparatory coats:** Apply to restore original coating thicknesses.
 - 8.2. **Junctions:** Provide flush surface.
9. **Completely stripped surfaces:** Prepare as for uncoated surfaces.

461 Previously coated wood

1. **Degraded or weathered surface wood:** Take back to provide suitable substrate.
2. **Degraded substrate wood:** Repair with sound material of same species.
3. **Exposed resinous areas and knots:** Apply two coats of knotting.

471 Preprimed wood

1. **Areas of defective primer:** Take back to bare wood and reprime.

481 Uncoated wood

1. **General:** Provide smooth, even finish with arrises and moulding edges lightly rounded or eased.
2. **Heads of fasteners:** Countersink sufficient to hold stoppers/fillers.
3. **Resinous areas and knots:** Apply two coats of knotting.

570 Uncoated masonry/ Rendering

1. **Loose and flaking material:** remove.

580 Uncoated plaster

1. **Nibs, trowel marks and plaster splashes:** Scrape off.
- Feilden Clegg Bradley Studios
15-12-2020

2. Overtrowelled 'polished' areas: Key lightly.

590 Uncoated plasterboard

1. Depressions around fixings: Fill with stoppers/ fillers

611 Wall coverings

1. Retained wall coverings: Check that they are in good condition and well adhered to substrate.
2. Previously covered walls: Wash down to remove paper residues, adhesive and size.

622 Organic growths

1. Dead and loose growths and infected coatings: Scrape off and remove from site.
2. Treatment biocide: Apply appropriate solution to growth areas and surrounding surfaces.
3. Residual effect biocide: Apply appropriate solution to inhibit re-establishment of growths.

631 Previously painted window frames

1. Paint encroaching beyond glass sight line: Remove.
2. Loose and defective putty: Remove.
3. Putty cavities and junctions between previously painted surfaces and glass: Clean thoroughly.
4. Finishing
 - 4.1. Patch prime, reputty as necessary, and allow to set.
 - 4.2. Seal and coat as soon as fully set.

Application

711 Coating generally

1. Application standard: In accordance with BS 6150, clause 9.
2. Conditions: Maintain suitable temperature, humidity and air quality during application and drying.
3. Surfaces: Clean and dry at time of application.
4. Thinning and intermixing of coatings: Not permitted unless recommended by manufacturer.
5. Overpainting: Do not paint over intumescent strips or silicone mastics.
6. Priming coats
 - 6.1. Thickness: To suit surface porosity.
 - 6.2. Application: As soon as possible on same day as preparation is completed.
7. Finish
 - 7.1. Even, smooth and of uniform colour.
 - 7.2. Free from brush marks, sags, runs and other defects.
 - 7.3. Cut in neatly.
8. Doors, opening windows and other moving parts: Ease before coating and between coats.

720 Priming joinery

1. Preservative treated timber: Retreat cut surfaces with two flood coats of a suitable preservative before priming.
2. End grain: Coat liberally allow to soak in, and recoat.

730 Workshop coating of concealed joinery surfaces

1. General: Apply coatings to all surfaces of components.

N10

General fixtures/ furnishings/ equipment

Products

145 Vanity and washroom furniture

1. Description: Vanity Units to Unisex W/C's
2. Item: Vanity unit
3. Manufacturer: Vanesta
 - 3.1. Product reference: Submit proposals
4. Form: Floor-mounted
5. Dimensions: As drawings
6. Worktop: Plastics laminate-faced particleboard
 - 6.1. Finish/ Colour: To match IPS panelling
 - 6.2. Edges: Plastics laminate-faced particleboard
7. Doors/ Drawers/ Shelves
 - 7.1. Material: Plastics laminate-faced particleboard
 - 7.2. Finish/ Colour: To match IPS panelling
 - 7.3. Exposed edges: Plastics laminate-faced particleboard
8. Supports: Laminated-faced particleboard
9. Other requirements: Door access to sink plumbing

150 Baby Change Facility

1. Description: Baby Change unit
2. Manufacturer: Magrini
 - 2.1. Product reference: Horizontal wall mounted baby changing unit MH42
3. Form: Wall-mounted
4. Dimensions: 760 x 585 x 145mm

160 Shelving system

1. Description: Shelving to Cleaner's Store
2. Manufacturer: Spur (www.SpurShelving.co.uk)
 - 2.1. Product reference: wall mounted shelves
3. Dimensions: As drawings
 - 3.1. Shelf Spacing: 400mm
4. Shelves
 - 4.1. Material: Sheet steel
 - 4.2. Finish/ Colour: Natural
5. Carcass or frame
 - 5.1. Material: Plywood
 - 5.2. Finish/ Colour: Clear lacquer
6. Other components: Support brackets

241 Window Privacy Film

1. Description: To all windows into new temporary toilet lobby, WC's and Baby change

2. **Manufacturer:** The window film company
 - 2.1. **Product reference:** Privacy window (Frosted glass film)
3. **Type:** Frosted glass film
4. **Dimensions:** To for window panes of existing windows
5. **Material:** Frosted film
 - 5.1. **Finish/ Colour:** Frosted film

245 Signage

1. **Description:** Illuminated signage to the atrium wall adjacent to the WC door.
2. **Manufacturer:** To Buro Happolds Specification
 - 2.1. **Product reference:** To Buro Happolds Specification
3. **Type:**
4. **Dimensions:**
5. **Material:**
 - 5.1. **Finish/ Colour:**
6. **Accessories/ Other requirements:** Illuminated by existing spot lighting to BH details

460 Sealant

1. **Description:** To vanity furniture
2. **Standard:** To BS EN ISO 11600, class F20 HM
3. **Type:** One part silicone
 - 3.1. **Manufacturer:** Contractor's choice
 - 3.2. **Product reference:** Contractor's choice
 - 3.3. **Cure:** Neutral
4. **Colour:** Clear
5. **Other requirements:** None

Execution

760 Sealant bedding and pointing

1. **Application:** As section Z22.
2. **Bedding:** WHB to Vanity unit
3. **Pointing:** Joints between plinth and floor finish

Completion - Not Used

Ω End of Section

N13

Sanitary appliances and fittings

Products

300 WCs and cisterns

1. Description: To WC's
2. WC standard: To Defra WC suite performance specification or equivalent approved by relevant water company
3. Type: Wall hung, concealed cistern
4. Pan
 - 4.1. Standards: To BS EN 33 and BS EN 99
 - 4.2. Manufacturer: Armitage Shanks or similar approved
 - 4.2.1.Product reference: Concept wall hung toilet with Aquablade technology E0473(01)
 - 4.3. Material: Glazed fireclay, white
5. Seat and cover
 - 5.1. Standard: Not applicable
 - 5.2. Form: Seat and cover
 - 5.3. Manufacturer: As Pan
 - 5.3.1.Product reference: E7726(01)
 - 5.4. Material: Plastics
 - 5.5. Finish/ colour: To match pan
 - 5.6. Soft close: Required
6. Pan connector
 - 6.1. Standard: To BS 5627.
 - 6.2. Manufacturer: Contractor's choice
 - 6.2.1.Product reference: Contractor's choice
 - 6.3. Colour: To match pan
7. Cistern
 - 7.1. Standard: To BS EN 14055, Class 2
 - 7.2. Manufacturer: Armitage Shanks
 - 7.2.1.Product reference: S3643(67)
 - 7.3. Material: Plastics
 - 7.4. Finish/ colour: Not applicable
8. Inlet valve: Cistern manufacturer's standard
 - 8.1. Manufacturer: Contractor's choice
 - 8.1.1.Product reference: Contractor's choice
 - 8.2. Water supply connection: Side
9. Flushing arrangement: Cistern manufacturer's standard
 - 9.1. Manufacturer: Armitage Shanks
 - 9.1.1.Product reference: E4465(AA)
 - 9.2. Operating control: Karisma flush plate, dual flush
 - 9.3. Flush volume: Dual flush 4 or 2.6 L
10. Flush pipe: Concealed
 - 10.1. Manufacturer: Contractor's choice

10.1.1. Product reference: Contractor's choice

10.2. Material: Plastics, white

11. Accessories: WC Support Bracket

304 Wash/ dry WCs

1. Description:
2. WC standard:
3. Manufacturer:
 - 3.1. Product reference:
4. Colour:
5. Wash water supply temperature at outlet (maximum):
6. Pan connector
 - 6.1. Standard: To BS 5627.
 - 6.2. Manufacturer:
 - 6.2.1. Product reference:
 - 6.3. Colour:
7. Accessories:

311 Unisex accessible WC equipment packages (Document M)

1. Description: To Accessible toilet
2. Manufacturer: Armitage Shanks
 - 2.1. Product reference: Doc M Contour 21+ Close Coupled Left hand pack S0683(AC)
3. Type approval certificate: Submit.
4. Finish/ colour
 - 4.1. Pan: Vitreous china, white
 - 4.2. Cistern: Manufacturer's standard
 - 4.3. Seat: Plastics, white
 - 4.4. Basin: Vitreous china, white
 - 4.5. Handrails and grab bars: Stainless steel
5. Transfer handing: Left-hand
6. Water supply fittings (basin): Lever-operated basin mixer tap
 - 6.1. Water supply temperature (maximum): -
7. Accessories: Clothes hooks, Hand dryer, Mirror ,Soap dispenser, Toilet tissue dispenser

311 Unisex Ambulant Care Back To Wall or Close Coupled Packs (Document M) Type A

1. Description: To Accessible toilet
2. Manufacturer: Armitage Shanks
 - 2.1. Product reference: Doc M Contour 21+ Close Coupled Left hand pack S0683(AC)
3. Type approval certificate: Submit.
4. Finish/ colour
 - 4.1. Pan: Vitreous china, white
 - 4.2. Cistern: Manufacturer's standard
 - 4.3. Seat: Plastics, white
 - 4.4. Basin: Vitreous china, white

- 4.5. Handrails and grab bars: Stainless steel
- 5. Transfer handing: Left-hand
- 6. Water supply fittings (basin): Lever-operated basin mixer tap
 - 6.1. Water supply temperature (maximum): -
- 7. Accessories: Clothes hooks, Hand dryer, Mirror ,Paper towel dispenser ,Soap dispenser, Toilet tissue dispenser

335 Washbasins

- 1. Description: Wash Hand Basins to WC
- 2. Standard: Not applicable
 - 2.1. Overflow class: -
- 3. Manufacturer: Armitage Shanks
 - 3.1. Product reference: Softmood 45cm Handrinse Washbasin (T055101)
- 4. Size: 250 x 450mm
- 5. Material: Glazed fireclay, white
- 6. Configuration: Wall-hung
- 7. Tap/ chainstay/ overflow holes: One tap hole, right-hand Overflow hole
- 8. Water supply fittings: Basin mixer tap
 - 8.1. Water supply temperature (maximum): User controlled
 - 8.2. Flow rate (maximum): 5L/min at 3 bar
 - 8.3. Manufacturer: Armitage Shanks
 - 8.3.1.Product reference: Attitude single lever one hole mixer (A4592AA)
 - 8.4. Operation: Manual
- 9. Wastes: Pop-up
 - 9.1. Standards: To BS EN 274-1, -2 and -3.
 - 9.2. Manufacturer: As mixer tap
 - 9.2.1.Product reference: As mixer tap
 - 9.3. Size: DN 40
 - 9.4. Material: Brass, chrome-plated
 - 9.5. Tail: -
- 10. Traps: Bottle
 - 10.1. Standards: To BS EN 274-1, -2 and -3.
 - 10.2. Manufacturer: As Washbasin
 - 10.2.1. Product reference: 1 1/4 Contemporary metal bottle E0079(AA)
 - 10.3. Size: DN 40
 - 10.4. Material: chrome-plated
 - 10.5. Depth of seal (minimum): 75 mm.
- 11. Accessories: None
- 12. Other requirements: One of the Unisex WC's should be equipped for children with the basin mounted at 800mm from the floor

429 Clothes hooks

- 1. Description: To backs of WC doors
- 2. Manufacturer: Vanesta
 - 2.1. Product reference: Coat hook 0397094

3. **Material:** Stainless Steel with integral rubber buffer
4. **Finish/ colour:** Brushed satin

438 Mirrors

1. **Description:** Mirrors to WC's
2. **Manufacturer:** Submit proposals
 - 2.1. **Product reference:** Submit proposals
3. **Material:** Silvered frameless laminated glass.
4. **Finish/ colour:** Free from tarnishing, discoloration, scratches and other defects visible in the designed viewing conditions. Reflection undistorted.
5. **New Item:** Full height mirror to all Unisex, disabled and baby change rooms

458 Soap dispensers

1. **Description:** To All WC's
2. **Manufacturer:** Washware Essentials
 - 2.1. **Product reference:** SDA- Automatic wall mounted soap dispenser
3. **Material:** Stainless Steel
4. **Finish/ colour:** Satin polished

462 Toilet paper holders

1. **Description:** To All WC's
2. **Manufacturer:** Loveair or similar approved
 - 2.1. **Product reference:** L787CS
3. **Material/ finish:** Stainless Steel
4. **Finish/ colour:** Satin

472 Hand dryers

1. **Description:** To all WC's
2. **Standard:** To BS EN 60335-2-23.
3. **Type:** High-velocity air
4. **Manufacturer:** Loveair
 - 4.1. **Product reference:** Air Fury C1 (L89ACS)
5. **Operation:** Automatic
6. **Heater power rating:** -
7. **Enclosure:** Stainless steel
 - 7.1. **Colour:** Satin
8. **Fixing arrangement:** Surface
9. **Ingress protection to BS EN 60529:** IPX5
10. **Noise level at 1 m (maximum):** 78 dB(A)
11. **Features:** Hands only
12. **Electrical supply:** Fused switched 13 A connection
13. **Additional requirements:** Child- friendly Unisex WC to have hand- drier mounted no higher than 1000mm

580 Sealant for pointing

1. **Standard:** To BS EN ISO 11600

- 1.1. Class: F20HM
2. Type: High Modulus Silicone
3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
4. Colour: White

Execution

610 Installation generally

1. Assembly and fixing: Surfaces designed to falls to drain as intended.
2. Fasteners: Nonferrous or stainless steel.
3. Supply and discharge pipework: Fix before appliances.
4. Fixing: Fix appliances securely to structure. Do not support on pipework.
5. Jointing and bedding compounds: Recommended by manufacturers of appliances, accessories and pipes being jointed or bedded.
6. Appliances: Do not use. Do not stand on appliances.
7. On completion: Components and accessories working correctly with no leaks.
8. Labels and stickers: Remove.

613 Compatibility of components

1. General: Each sanitary assembly must consist of functionally compatible components, preferably obtained from a single manufacturer.
 - 1.1. Exceptions:

620 Noggings and bearers

1. Noggings, bearers, etc. to support sanitary appliances and fittings: Position accurately. Fix securely.

650 Installing WC pans

1. Floor-mounted pans: Screw fix and fit cover caps over screw heads. Do not use mortar or other beddings.
2. Seat and cover: Stable when raised.

670 Installing cisterns

1. Cistern operating components: Obtain from cistern manufacturer.
2. Inlet and flushing valves: Match to pressure of water supply.
3. Internal overflows: Into pan, to give visible warning of discharge.
4. External overflows: Fix pipes to falls and locate to give visible warning of discharge. Agree location where not shown on drawings.

710 Installing taps

1. Fixing: Secure against twisting.
2. Seal with appliance: Watertight.
3. Positioning: Hot tap to left of cold tap as viewed by user of appliance.

720 Installing wastes and overflows

1. Bedding: Waterproof jointing compound.
2. Fixing: With resilient washer between appliance and backnut.

725 Installing hand dryers

1. Fused connection units
 - 1.1. Type: Switched
 - 1.2. Engraving: With 'HAND DRYER'.
 - 1.3. Location: Next to hand dryer
2. Final connection: Concealed.
 - 2.1. Containment: 25 mm HG galvanized conduit

755 Sealant bedding and pointing

1. Bedding: Bed and point basins to wall
2. Pointing: Joints between appliances and walls. Joints between appliances and floors.

Ω End of Section

P21

Door/ window ironmongery

Pre-tender

10 Quantities and locations

1. Quantities and locations of ironmongery are on the drawings .
2. Fixing: As sections L10 and L20.

General

120 Ironmongery range selected by Contractor

1. Source: Single co-ordinated range.
2. Notification: Submit details of selected range, manufacturer and/ or supplier.
3. Principal material/ finish:
4. Items unavailable within selected range: Submit proposals.

122 Ironmongery from listed proprietary ranges

1. Source: One only of the following manufacturers/ suppliers and ranges:
2.
3. Notification: Submit details of selected range, manufacturer and/ or supplier.
4. Principal material/ finish:
5. Items unavailable within selected range: Submit proposals.

130 Approved suppliers

1. Source: Obtain ironmongery from one of the following:
2. Notification: Submit details of selected supplier.

140 Samples

1. General: Before placing orders with suppliers submit labelled samples of the following: Mortice Bathroom lock case, lever handle and rose, turn release indicator, signage plate .
 - 1.1. Conformity: Retain samples on site for the duration of the Contract. Ensure conformity of ironmongery as delivered with labelled samples.

180 Strength class or category of duty for door ironmongery

1. Requirement: -
2. General: Durability of ironmongery components to be compatible with stated category of duty of each door leaf.
 - 2.1. Exclusions: Ironmongery with specific duty or 'category of use' defined elsewhere.
 - 2.2. Documentation: Before placing orders with suppliers submit documentation showing product compliance with stated category of duty.

Door hanging devices

310 Single axis door hinges

1. Description: To all new doors
2. Standard: To BS EN 1935.
 - 2.1. Hinges to doors on escape routes and fire/ smoke control doors: CE marked.

3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
4. Type: -
5. Size: -
6. Material/ finish: Satin brass
7. Hinge grade: -
8. Other requirements: None

Window hanging devices - Not Used

Door operating devices - Not Used

Door securing devices

515 Door locks

1. Description: To all WC doors
2. Standard: To BS EN 12209.
3. Manufacturer: Submit proposals
 - 3.1. Product reference: Submit proposals
4. Type: Mortice Bathroom lock case
5. Backset: 44 mm
6. Material/ finish: Satin brass faceplate
7. Keying: not applicable

570 Powered door operation

1. Description: Existing Push Button power operated door from atrium to kitchen
2. Additional requirements: Existing push button to be relocated from pole to wall as indicated on drawings.

570 Powered door operation Type B

1. Description: Existing door from atrium to WC lobby to be upgraded to push button mechanically operated.
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Type: Wall mounted push pad
4. Additional requirements: Fail safe to open in the event of a fire

Window securing devices

592 Sash fasteners

1. Description: To West window to allow fitting of 200 mm ventilation grille
2. Manufacturer: Hafele or similar
 - 2.1. Product reference: Sash window restrictor
3. Type: Sash restrictor
4. Size: Contractor's choice
5. Material/ finish: Contractor's Choice
6. Additional requirements: to be fully reversible once ventilation panel no longer required.

Door furniture

610 Lever handles

1. Description: To both sides of all WC's and baby change doors
2. Standard: To BS EN 1906.
3. Manufacturer: Hafele or similar
 - 3.1. Product reference: Submit proposals
4. Style: Round pattern with return to door
5. Size: 22 mm diameter
6. Material/ finish: Satin brass
7. Mounting: lever handle rose with concealed bolt fixing
8. Additional requirements: Large turn release and indicator on rose

690 Kick plates

1. Description: To pull side of all WC and baby change doors
2. Manufacturer: Allgood or similar
 - 2.1. Product reference: Kick plate
3. Size: As drawings As drawings
4. Material/ finish: Satin brass
5. Mounting: Face fix
6. Additional requirements: Screw heads colour matched to plate

720 Door stops

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice
2. Type: Floor mounted black rubber centre fixing
3. Usage: To doors opening against walls other than those fitted with closers with a back check facility

Window furniture - Not Used

Ω End of Section



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