

Axis Architecture Limited

Wickham & Knowle Parish Council

New Pavilion at Wickham Recreation Ground, Fareham Rd, Wickham, PO17 5BY

NBS Specification

17-04-2025

Demolition of existing sport pavilion replaced with new
sport pavilion

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B14

Prefabricated panelled constructions

Tendering

10 Information to be provided with tender

1. General structural requirements in accordance with clause: [B50/10](#)

General

110 Prefabricated building Traditional British Pavilion

1. **Proposal:** Contractor to price for product below for price comparison. However, Contractor is welcome to price for an additional alternative solutions if cost effective
2. **Description:** PASSMORES CLUB RANGE or similar approved
3. **Manufacturer:** PASSMORES
 - 3.1. **Product reference:** See Club Range Brochure
4. **External wall panels**
 - 4.1. **Outer layer**
 - 4.1.1. **Material:** Timber
 - 4.1.2. **Thickness:** As per drawing 24-050-311-Floor plans as proposed-
 - 4.2. **Core**
 - 4.2.1. **Material:** To achieve minimum U Value of 0.18 W/m²K Timber cladding fixed to 25 x 38mm preservative-treated battens (provide counter battens to ensure vented and drained cavity if required) fixed to breathable membrane (having a vapour resistance of not more than 0.6 MNs/g) and 12mm thick WBP external quality plywood sheathing (or other approved). Ply fixed to treated timber frame studs constructed using: 150mm x 50mm head & sole plates and vertical studs (with noggins) at 400mm ctrs or to s/engineer's details & calculations.

Insulation to be 150mm KINGSPAN KOOLTHERM K112 between studs.

Provide vcl and 12.5mm plasterboard over internal face of insulation. Finish with 3mm skim coat of finishing plaster. Walls within 1m of the boundary to be lined externally with 12.5mm Supalux and 12.5mm Gyproc FireLine board internally to achieve 1/2 hour fire resistance from both sides and timber cladding to be treated with Fire Retardant Coating for Timber (ESVFR & QVFR) or similar paint system to achieve class 0 and 1 EU SBI/B/s1/d0.

5. **Roof construction:** To achieve U-value 0.16 W/m²K
Pitched roof to be formed using proprietary prefabricated manufactured trusses. Design of roof trusses to be produced by specialist truss manufacturer to BS EN 1995-1-1:2004 Eurocode 5: Design of timber structures (+A2:2014), and submitted to Building Control for approval prior to commencement of work. Trusses to be placed at max 600ctrs in accordance with BS 8103-3:2009 and BS EN 1995-1 (+A2:2014) on suitable wall plates fixed using proprietary galvanised steel truss clips. All strapping, fixing and bracing to be in accordance with manufacturer's instructions.

Mechanically fix trusses to 100 x 50mm sw treated wall plates using galvanized steel truss clips. Form ceiling using 12.5mm plasterboard and min 3mm thistle multi-finish plaster. Insulation at ceiling level to be two layers of Rockwool insulation to total 300mm laid between over joists (cross direction. Provide polythene vapour barrier between insulation and plasterboard.

Where required provide opening at eaves level at least equal to continuous strip 25mm wide on

two opposite sides to promote cross-ventilation and provide mono pitched roofs with ridge/high level ventilation equivalent to a 5mm gap via proprietary tile vents spaced in accordance with manufacture's details.

Loft hatches should be suitable designed and installed to ensure optimum air tightness. A proctor roofshield breathable membrane will also be required to be fitted as part of construction

Performance

212 Structural design provided

1. Description: Structural Engineer Design to follow

Fabrication

510 Information from manufacturer

1. Requirement: Manufacturer to provide: Drawings showing all construction details, including connections and manufactured tolerances.

Execution

710 General

1. Construction: To [BS EN 1995-1-1](#)
2. Fabrication and installation: Provide a secure, stable, weathertight installation.

730 Erection

1. Lifting: Use manufacturer's designated lifting points.
2. Positioning: Do not drag units.
3. Temporary support: Provide until lateral bracing is fixed.
4. Cutting/ Drilling: Do not cut or drill panels, except as recommended by or agreed with manufacturer.

740 Accuracy of erection

1. Finished appearance: Panels must be square, regular, true to line, level and plane.

Completion

920 Verification on completion

1. Requirement: Manuals as provided by manufacturer
 - 1.1. Check completed installation, including positioning and integrity of cavity fire barriers and fire-stopping, and provide assurance of compliance with specified performance.
2. Verification: Inspections, remedial works carried out and certification of compliance.
 - 2.1. Timing: At completion of installation

Ω End of Section

B50

General structural requirements

Tendering - Not Used

General

120 Structural work

1. Designated codes of practice: To the Eurocodes appropriate to the nature of the structure
2. Design working life: Category 1 to BS EN 1990
3. Completed structure generally: To comply with the requirements of the designated codes of practice and the standards referenced therein. Deflections and other structural movements at serviceability limit state to be compatible with requirements of the building fabric, movement joints and weathertightness.
4. Special requirements: None

150 Ground investigation report

1. Requirement: Submit proposals and price for ground investigation as UK Specification for ground investigation (SFGI), to provide data for the design of the proposed work (drainage & services). See NBS C10-12 for requirements
2. Datum for borehole logs: Existing ground level
3. Obstructions and voids: None known

Performance

250 Limits on movement generated by construction

1. Definition of critical values
 - 1.1. Threshold value: The value beyond which further movement will be of significant concern.
 - 1.2. Action value: The value at which execution must cease.
2. Precautions: Take as follows if movements reach critical values:
 - 2.1. Threshold: Review situation, assess possible causes and submit proposals to ensure that action values are not exceeded.
 - 2.2. Action: Stop work, report and revise working procedures to prevent further movements.

320 Loads/ actions

1. Generally: Specified loads/ actions are characteristic values unless otherwise described.

Execution

700 Execution generally

1. Standard: Report conflict between specification and the designated codes of practice and the standards referenced therein before ordering affected materials or executing affected work.
2. Inspection levels: Submit proposals
 - 2.1. Special requirements: None
3. Quality control: Submit proposals
4. Tolerances: Notwithstanding tolerances specified elsewhere, do not exceed requirements for compliance with the designated code.

705 Connections and anchorages

1. End and edge distances and spacing (minimum): Unless otherwise specified or detailed, as required by the designated code of practice for fixings/ anchorages carrying maximum load.
2. Report locations where
 - 2.1. Type and number of fixings cannot be accommodated.
 - 2.2. Size or position of members prevents correct positioning.

Completion - Not Used

Ω End of Section

C10 Site surveys

Surveys

12 Preliminary surveys To be included in the tender

1. Description: Drainage & services
2. Competencies: Full member of the [Chartered Institution of Water and Environmental Management \(CIWEM\)](#) or similar approved
3. Area to be surveyed: Whole site and 5 m surrounding margins
4. Timing of survey: Before commencement
5. Objectives
 - 5.1. Record visible and suspected hazards
 - 5.1.1. Purpose: To permit the design of drainage works and M&E design
 - 5.1.2. Requirements: Use drawings to record the general positions and forms of potential hazards
 - 5.1.3. Hazards to be considered: See Designer Risk Assessment
 - 5.2. Record designated areas
6. Methodology
 - 6.1. Requirements: Do not use intrusive survey techniques. Avoid disturbing natural features or wildlife.
 - 6.2. Survey techniques: Submit proposals
7. Reference data: Drawings (electronic, file type DWG).
8. Preliminary survey report: Submit, as clause 92.
 - 8.1. Timing: At possession of the site.

Survey techniques

34 Unforeseen hazards

1. Requirement: Report immediately to Contract Administrator

36 Survey instruments

1. Equipment calibration: In accordance with the manufacturer's recommendations.
2. Site use calibration: To relevant parts of [BS 7334-1](#), [BS 7334-3](#), [BS 7334-4](#), [BS 7334-5](#) and [BS 7334-8](#).
3. Calibration: Use only persons accredited by the [United Kingdom Accreditation Service \(UKAS\)](#).
4. Calibration compliance: Submit evidence prior to use.

38 Protection during site surveying

1. Protect the following:: Hedges and trees; Tennis Pavilion; Path to Existing Pavilion

Completion - Not Used

Ω End of Section

C20 Demolition

To be read with preliminaries/ general conditions.

5 Desk study/ survey

1. Scope: before starting deconstruction/ demolition work, examine available information, and carry out a survey of: : The whole building; gas and services to be capped and / or disconnected
2. Report and method statements: Submit, describing: demolition and waste disposal
 - 2.1. Form, condition and details of the structure or structures, the site and the surrounding area.
 - 2.1.1. **Extent:** Existing Pavilion as shown in drawing 24-050-101 Plans and elevations as existing
 - 2.2. Identity and location of services above and below ground, including those required for the contractor's use, and arrangements for their disconnection and removal.
 - 2.3. Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - 2.4. Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.5. Proposed programme of work, including sequence and methods of deconstruction or demolition.
 - 2.6. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.7. Arrangements for control of site transport and traffic.
 - 2.8. **Special requirements:** Site waste management plan development and proposals
3. Format of report: PDF

10 Extent of deconstruction/ demolition

1. **General:** subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to: : Foundation level
2. **Verification:** submit a demolition survey before new works

25 Location and marking of services

1. **Services affected by deconstruction/ demolition work:** Locate and mark positions
2. **Mains services marking:** Arrange with the appropriate authorities for services positions to be located and marked
 - 2.1. **Marking standard:** In accordance with [Street Works UK](#) publication [Guidance on the Positioning and Colour Coding of Underground Utilities' Apparatus](#).

30 Services disconnection arranged by contractor

1. **General:** Arrange with the appropriate authorities and responsible private organizations for disconnection of services, and removal of fittings and equipment owned by those authorities and organizations where agreed, prior to starting deconstruction or demolition
2. **Decommissioning action plan:** Available in health and safety file
3. **Permanent disconnection:** Gas; all other services to be temporarily disconnected and re-connected in the new build

32 Disconnection of drains

1. **General:** Locate, disconnect and seal disused drain connections. Agree where drains are to be sealed

2. **Sealing:** Permanent, and within the site
3. **Decommissioning action plan:** Available in health and safety file

35 Live drainage systems and watercourses

1. **Unrecorded features:** Give notice if unrecorded pipes, drains, manholes, watercourses, ditches, etc. not shown on the drawings are encountered.
2. **Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings:** Make good any damage arising from deconstruction or demolition work

45 Services to be retained

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

50 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 Construction Skills certification of competence.
3. **Site staff responsible for supervision and control of work:** Experienced in the assessment of risks involved and methods of deconstruction and demolition to be used. Hold appropriate qualification or training certificates for their role.

55 Site hazards

1. **Precautions:** Prevent fire or explosion caused by gas and vapour from tanks, pipes, etc. Identify potential sources and assess risk prior to commencement of works on site.
2. **Hazardous atmospheres:** Produce and submit risk assessments
3. **Dust:** Minimize airborne dust by periodically spraying deconstruction and demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris
 - 3.1. **Dust suppression and reduction:** Submit method statement for control, containment and clean-up regimes. Submit documentation outlining additional lead dust controls
4. **Site operatives and general public:** Protect from health hazards including those associated with vibration, dangerous fumes and dust arising during the course of the works.

76 Asbestos-containing materials – unknown occurrences

1. **Discovery:** Stop work, and give immediate notice of suspected asbestos-containing materials when they are discovered during deconstruction and demolition work. Avoid disturbing such materials.
2. **Removal:** Submit statutory risk assessments and details of proposed methods for safe removal.

78 Unforeseen hazards

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

85 Site condition at completion

1. **Debris:** Clear away and leave the site in a clean, tidy, safe and secure condition.

86 Site surface at completion

1. **Topography:** Grade the site to follow the levels of adjacent areas

90 Contractor's property

1. **Components and materials arising from the deconstruction and demolition work:** Property of the contractor, except for designated items which remain the property of the employer
2. **Action:** Remove from site as work proceeds where not to be reused or recycled for site use

95 Recycled materials

1. **Materials arising from deconstruction and demolition work::** Can be recycled or reused elsewhere in the project, subject to compliance with the appropriate specification and in accordance with the site waste management plan.
2. **Verification**
 - 2.1. **Evidence of compliance:** Submit full details and supporting documentation.
 - 2.2. **Timing:** Allow adequate time in programme for verification of compliance.

Ω End of Section

L10

Windows/ rooflights/ screens/ louvres

To be read with preliminaries/ general conditions.

31 PVC-U windows

1. Description: Grey PVC-U Windows
2. Standard: Non-fire-rated and/ or non-smoke-rated windows to [BS EN 14351-1](#) and [BS 7412](#)
3. Colour/ texture: Anthracite grey
4. Exposure category to BS 6375-1/ design wind load: Manufacturer's standard
5. Reinforcement: Manufacturer's standard
6. Thermal performance (U-value maximum): Manufacturer's standard
7. Acoustic performance rating: Not required
8. Fire performance
 - 8.1. Fire resistance: Not required
 - 8.2. Reaction to fire: Not required
 - 8.3. Fire egress: Not required
9. Environmental performance:
10. Glazing details: Manufacturer's standard
 - 10.1. Beading: Manufacturer's standard
11. Ironmongery/ accessories: Trickle ventilator; Locking handle
12. Fixing: Manufacturer's standard
 - 12.1. Fastener spacing: When not pre-drilled or specified otherwise, position fasteners 150-250 mm from ends of each jamb, adjacent to each hanging point of opening lights, but no closer than 150 mm to a transom or mullion centre line, and at maximum 600 mm centres.

65 Priming/ sealing

1. Wood surfaces inaccessible after installation: Prime or seal as specified before fixing components.

75 Sealant joints

1. Sealant
 - 1.1. Manufacturer: Contractor's choice
 - 1.1.1. Product reference: Contractor's choice
 - 1.2. Colour: to match unit
 - 1.3. Application: As [section Z22](#) to prepared joints. Finish triangular fillets to a flat or slightly convex profile.
2. Environmental performance: Contractor's choice

80 Ironmongery

1. Fixing: In accordance with any third-party certification conditions applicable. Assemble and fix carefully and accurately, using fasteners with matching finish supplied by ironmongery manufacturer. Do not damage ironmongery and adjacent surfaces.
2. Checking/ adjusting/ lubricating: Carry out at completion and ensure correct functioning.

90 Replacement window installation

1. Standard: To [BS 8213-4](#).

L20

Doors/ shutters/ hatches

To be read with preliminaries/ general conditions.

10 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 in accordance with chain of custody certification scheme requirements:
 - 2.1. Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied; or
 - 2.2. Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
3. Chain of custody certification scheme: Contractor's choice in accordance with [UK Government Timber procurement policy \(UKTPP\)](#), i.e. FSC, GiB or PEFC
 - 3.1. Other evidence: None

20 Wood internal doors

1. Description: Dark grey internal doors
2. Materials: Generally to [BS EN 942](#).
 - 2.1. Species: Softwood as Table NA1
3. Panels: Not applicable
4. Assembly
 - 4.1. Joinery workmanship: As section Z10.
 - 4.2. Accuracy: To [BS 4787-1](#)
5. Moisture content on delivery: 12–16%
6. Finish as delivered: Full paint system, as section M60
7. Glazing/ infill details: Clear fire-resisting glazing
 - 7.1. Manifestation: Not required
8. Fire performance
 - 8.1. Fire resistance: See 24-050-320 Door & Window Schedule (Internal & External)
 - 8.2. Smoke leakage: See 24-050-320 Door & Window Schedule (Internal & External)
 - 8.3. Reaction to fire: See 24-050-320 Door & Window Schedule (Internal & External)
9. Thermal performance (U-value maximum): Manufacturer's standard
10. Other requirements: None

45 Other External Doors Aluminium Access Control Doors

1. Description: Aluminium Access Control Doors
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Finish as delivered: Polyester powder-coated, RAL 7016
4. Glazing/ infill details: See 24-050-320 Door & Window Schedule (Internal & External)

- 4.1. **Manifestation:** See 24-050-320 Door & Window Schedule (Internal & External)
- 4.2. **Beading:** Internal
5. **Ironmongery:** As ironmongery schedule 24-050-320 Door & Window Schedule (Internal & External)
6. **Fire performance**
 - 6.1. **Fire resistance:** See 24-050-320 Door & Window Schedule (Internal & External)
 - 6.2. **Smoke leakage:** See 24-050-320 Door & Window Schedule (Internal & External)
 - 6.3. **Reaction to fire:** See 24-050-320 Door & Window Schedule (Internal & External)
7. **Thermal performance (U-value maximum):** Manufacturer's standard
8. **Other requirements:** Access control as per door / ironmongery schedule on drawing 24-050-320 Door & Window Schedule (Internal & External)

52 Wood door frames

1. **Description:** To all wooden doors
2. **Materials:** Generally to [BS EN 942](#)
 - 2.1. **Species:** to match door
3. **Assembly**
 - 3.1. **Adhesive:** PVAC to [BS EN 204](#), Class D4
 - 3.2. **Joinery workmanship:** As section Z12.
4. **Preservative treatment:** Organic solvent as section Z12 and WPA Commodity Specification C5; desired service life: 30 years
5. **Moisture content on delivery:** 12–16%
6. **Finish as delivered:** Full paint system, as section M60
7. **Perimeter seals:** Fire and smoke seal as described on drawing 24-050-320 Door & Window Schedule (Internal & External)
8. **Fire performance**
 - 8.1. **Fire resistance:** See 24-050-320 Door & Window Schedule (Internal & External)
 - 8.2. **Smoke leakage:** See 24-050-320 Door & Window Schedule (Internal & External)
 - 8.3. **Reaction to fire:** See 24-050-320 Door & Window Schedule (Internal & External)
9. **Thermal performance:** Manufacturer's standard
10. **Fixing:** Plugged and screwed.
 - 10.1. **Spacing of fixings (frames not predrilled):** Maximum 150 mm from ends of each jamb, adjacent to each hanging point and at 600 mm maximum centres.

55 Wood entrance doorset

1. **Description:** Entrance door grey timber with double glazing
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Contractor's choice
3. **Wood species:** Hardwood
4. **Preservative treatment:** Required
5. **Finish as delivered:** Full paint system, as section M60
 - 5.1. **Paint :** Eggshell anthracite grey
6. **Glazing/ infill details:** Clear double glazing
 - 6.1. **Manifestation:** Not required
 - 6.2. **Beading:** Internal
7. **Fire performance**
 - 7.1. **Fire resistance:** Manufacturer's standard

7.2. Smoke leakage: Manufacturer's standard

7.3. Reaction to fire: Not required

8. Thermal performance (U-value maximum): Manufacturer's standard

9. Other requirements: None

70 Fire and smoke resistance

1. Requirement: Specified performance to be the minimum period attained when tested for integrity in accordance with BS 476-22, BS EN 1634-1 or BS EN 1634-3.
2. Components and assemblies will be marked to the relevant product standard and/ or third-party certification rating.

75 Fire-resisting/ smoke control doors/ doorsets

1. Gaps between frames and supporting construction: Filled as necessary in accordance with door/ doorset manufacturer's instructions.

80 Sealant joints

1. Sealant
 - 1.1. Manufacturer: Contractor's choice
 - 1.1.1. Product reference: Contractor's choice
 - 1.2. Colour: to match door
 - 1.3. Application: To prepared joints. Triangular fillets finished to a flat or slightly convex profile.

85 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.

Ω End of Section

M40

Stone/ concrete/ quarry/ ceramic tiling/ mosaic

To be read with preliminaries/ general conditions.

5 Tiling

1. Tiles: To all showers
 - 1.1. Manufacturer/ supplier: Solus Ceramics Ltd or similar approved
 - 1.1.1. Product reference: Halogen
 - 1.2. Standard: To [BS EN 12057](#)
 - 1.3. Colour: Garnant 2RPV406.
 - 1.3.1. Grout: mid-grey.
 - 1.4. Finish: Honed.
 - 1.4.1. Ceramic tiles: Glazed
 - 1.5. Size: 300 x 300 mm.
2. Background/ base: Clean smooth surface.
3. Intermediate substrate: Not required
4. Bedding
 - 4.1. Walls: Adhesive bed – notched trowel method, as [clause 50](#)
 - 4.2. Reinforcement: Not applicable
 - 4.3. Adhesive: Contractor's choice
5. Joint width: 2 mm
6. Grout: Contractor's choice
 - 6.1. Type/ classification: Contractor's choice
 - 6.2. Admixture: Contractor's choice
7. Accessories: None

15 New backgrounds/ bases

1. Background drying times (minimum)
 - 1.1. Gypsum plaster: Four weeks.

25 New plaster

1. Plaster: Dry, solidly bedded, free from dust and friable matter.
2. Plaster primer: Apply if recommended by adhesive manufacturer.

30 Fixing generally

1. Colour/ shade: Avoid unintended variations within tiles for use in each area/ room.
2. Adhesive: Compatible with background/ base.
3. Cut tiles: Neat and accurate.
4. Fixing: Provide adhesion over entire background/ base and tile backs.
5. Final appearance: Before bedding material sets, make adjustments necessary to give true, regular appearance to tiles and joints.
6. Deviation of surface: Measure from underside of a 2 m straightedge with 3 mm thick feet placed anywhere on surface. The straightedge should not be obstructed by the tiles/ mosaics and no gap should be greater than 6 mm, i.e. a tolerance of +/- 3 mm
7. Surplus bedding material: Clean from joints and face of tiles/ mosaics.

32 Mortar bedding

1. Bedding mix
 - 1.1. Cement: Portland to [BS EN 197-1](#), Type CEM I/42.5.
 - 1.2. Sand for walls: Fine aggregate to [BS EN 13139](#).
 - 1.2.1. Grading designation: 0/2 (CP or MP) Category 2 fines.
2. Grading designation: 0/4 (MP) Category 1 fines and between 20–66% passing a 0.5 sieve.
3. Mixing: Mix materials thoroughly to uniform consistence. Use a suitable forced action mechanical mixer. Do not use a free fall type mixer.
4. Application: At normal temperatures use within two hours. Do not use after initial set. Do not retemper.

35 Setting out

1. Joints: True to line, continuous and without steps.
 - 1.1. Joints on walls: Horizontal, vertical and aligned round corners.
2. Cut tiles: Minimize number, maximize size and locate unobtrusively.
3. Joints in adjoining floors and walls: Align.
4. Joints in adjoining floors and skirtings: Align.
5. Movement joints: Where locations are not indicated, submit proposals.
6. Setting out of shower tiles : Submit proposals.

40 Tile skirtings

1. Bedding: Solid to wall on Tile adhesive to [BS EN 12004-1](#).

70 Grouting

1. Sequence: Grout when bed/ adhesive has set sufficient to prevent disturbance of tiles.
2. Joints: 6 mm deep (or depth of tile if less). Free from dust and debris.
3. Grouting: Fill joints completely, tool to profile, clean off surface. Leave free from blemishes.
4. Profile: Flush
5. Polishing: When grout is hard, polish tiling with dry cloth.

75 Sealant movement joints

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice
2. Joints: Extend through tiles and bedding to base/ background. Centre over joints in base/ background.
 - 2.1. Width: 2 mm
3. Sealant: Contractor's choice
 - 3.1. Colour: to match grout
 - 3.2. Preparation and application: As [section Z22](#)

Ω End of Section

M50

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

To be read with preliminaries/ general conditions.

20 VinylSheeting Polyvinyl chloride (PVC) sheets

1. Description: To Clubroom and Office
2. Manufacturer: Polyflor Ltd or similar approved
 - 2.1. Product reference: Standard XL Sheet (Slate Grey 9200)
3. Standard: To [BS EN 14041](#)
4. Base: Smooth clean surface
 - 4.1. Preparation: As [clause 42](#)
5. Underlay: Natural rubber latex
6. Properties
 - 6.1. Reaction-to-fire classification: Manufacturer's standard
 - 6.2. Material: Polyvinyl chloride
 - 6.3. Slip potential
 - 6.3.1. Slip resistance value (SRV)/ pendulum test value (PTV) (minimum): R9
 - 6.4. Width: 2000 mm
 - 6.5. Thickness: 1.5mm
 - 6.6. Colour/ pattern: Graphite.
7. Adhesive: Contractor's choice
8. Seams: Manufacturer's recommendations
9. Accessories: Coving skittings where shown on tender drawings

27 Samples

1. Requirement: Submit samples representative of each floor type prior to placing orders

30 Layout

1. General: Submit proposal
2. Seams: Minimize occurrences of seams and cross seams where possible
3. Pattern: As per manufacturer's instructions.
4. Transition joints: As per manufacturer's instructions.

32 Extra material

1. Requirement: Provide extra material for each type of floor covering installed
 - 1.1. Amount: 10% extra

34 Conditioning

1. Prior to laying: Condition materials in accordance with manufacturer's instructions
2. Conditioning time and temperature: As recommended by manufacturer

37 New bases

1. General: Designer and those responsible for the construction of the base are to ensure suitability

60 Setting out tiles

1. Method: As per manufacturer's instructions

65 Laying coverings

1. Preparation: Ensure clean smooth surface
2. Primer: As per manufacturer's instructions
3. Adhesive: As per manufacturer's instructions
 - 3.1. Application: As per manufacturer's instructions
4. Traffic-free period: As per manufacturer's instructions

67 Seams

1. Seams: As per manufacturer's instructions
2. Joining method: As per manufacturer's instructions

70 Edgings and cover strips

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice
2. Properties
 - 2.1. Material: Submit proposal
 - 2.1.1. Colour: Dark grey
 - 2.2. Dimensions: Submit proposal
 - 2.3. Height difference: Submit proposal
3. Fixing: Submit proposal

80 Polyvinyl chloride (PVC) cove skirtings To all floors

1. Manufacturer: [Polyflor Ltd](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: PO Box 3
Radcliffe New Road
Whitefield
Manchester
M45 7NR
 - 1.1.2. Telephone: [+44 \(0\)161 767 1122](tel:+44(0)1617671122)
 - 1.1.3. Web: <https://www.polyflor.com/>
 - 1.1.4. Email: info@polyflor.com
 - 1.2. Product reference: [Sit-on Coved Skirting \(Sit-on coved skirting MC8\)](#)
2. Skirting type: Set on cove.
3. Colour: Dark Grey.
4. Depth: 20 mm.
5. Height: 100 mm.
6. Length: 2 m.

82 Finishing

1. Description: Installed to all floors
2. Cleaning: before completion
3. Treatment: Manufacturer's instructions

4. Temporary protection: Required

85 Leftover material

1. Spare covering material: Retain suitable material for patching. On completion, submit pieces for selection. Hand over selected pieces to employer.
2. Waste disposal: Safely, in accordance with material safety data sheets.

89 Verification on completion

1. Requirement: Slip resistance testing to all wet areas
2. Method: third-party certification; manufacturer's performance declarations (DoPs or similar)
3. Submittals
 - 3.1. Format: PDF
 - 3.2. Timing : At project completion

150 New clause

1. <https://nbs.fyi/2iWUik>

150 Particle-based enhanced slip-resistant polyvinyl chloride (PVC) sheets To All Cupboards and Equipment Store

1. Manufacturer: [Polyflor Ltd](#) or similar approved
2. Contact details
 - 2.1. Address: PO Box 3
Radcliffe New Road
Whitefield
Manchester
M45 7NR
 - 2.2. Telephone: [+44 \(0\)161 767 1122](tel:+44(0)1617671122)
 - 2.3. Web: <https://www.polyflor.com/>
 - 2.4. Email: info@polyflor.com
3. Product reference: [Polysafe Standard PUR Safety Flooring \(Nordic Grey\)](#)
4. Standard: To BS EN 13845.
5. Use class: To BS EN ISO 10874, class 23, 34 and 43.
6. Slip potential
 - 6.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): R10. 36 + Pendulum Wet Test (4S Rubber/Slider 96).
 - 6.2. Surface roughness (Rz) (minimum): ≥20 µm.
7. Width: 2000 mm.
8. Thickness: 2 mm.
9. Colour and pattern: Nordic Grey.
10. Acoustic underlay: Not required.

155 Particle-based enhanced slip-resistant polyvinyl chloride (PVC) sheets To All Changing Rooms, Toilets and Kitchen

1. Manufacturer: [Polyflor Ltd](#) or similar approved
2. Contact details
 - 2.1. Address: PO Box 3
Radcliffe New Road
Whitefield

Manchester
M45 7NR

- 2.2. Telephone: [+44 \(0\)161 767 1122](tel:+441617671122)
- 2.3. Web: <https://www.polyflor.com/>
- 2.4. Email: info@polyflor.com
- 3. Product reference: [Polysafe Ultima Safety Flooring \(4360 Mortar\)](#)
- 4. Standard: To BS EN 13845.
- 5. Use class: To BS EN ISO 10874, class 23 34 and 43.
- 6. Slip potential
 - 6.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): R11/ ≥40 (wet test - 4S Rubber/Slider 96), ≥36 (wet test - TRL Rubber/Slider 55).
 - 6.2. Surface roughness (Rz) (minimum): Rz 70µm.
- 7. Width: 2000 mm.
- 8. Thickness: 2.5 mm.
- 9. Colour and pattern: Aurora Grey.
- 10. Acoustic underlay: Not required.
- 11. Note: Electric Underfloor Heating below

Ω End of Section

M60

Painting/ clear finishing

To be read with preliminaries/ general conditions.

10 Waterborne undercoats To All Walls

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
United Kingdom
SL2 5DS
 - 1.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 1.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 1.1.4. Email: project.support@akzonobel.com
 - 1.2. Product reference: [Quick Dry Undercoat](#)
2. Composition: Acrylic copolymer.
3. Colour: White
4. Form: Liquid.
5. Capacity: 5 L.

14 Water-based finishing coats To All Wooden Doors, Lining and Architraves

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
United Kingdom
SL2 5DS
 - 1.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 1.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 1.1.4. Email: project.support@akzonobel.com
 - 1.2. Product reference: [Dulux Trade Diamond Satinwood](#).
2. Composition: Acrylic copolymer.
3. Sheen: Satin.
4. Colour: Anthracite Grey
5. Capacity: 5 L.
6. Form: Liquid.

16 Wood stains To External Decking

1. Manufacturer: [Sadolin, product of Crown Paints Ltd](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: PO Box 37
Crown House
Hollins Road

Darwen
Lancashire
BB3 0BG

1.1.2. Telephone: +44(0)330 0240310

1.1.3. Web: <https://www.crownpaintsprofessional.com/brands/sadolin/>

1.1.4. Email: info@crownpaintspec.co.uk

1.2. Product reference: [Decking Stain and Protector](#)

2. Category of use: Exterior.
3. Composition: Acrylic resin dispersed in water.
4. Colour: Natural.
5. Opacity: Opaque.
6. Execution: Apply by brush.
7. Coverage: 10 m²/L.
8. Drying time: 2–4 hours.
9. Film thickness: Wet: 100 micrometres at 10 m²/L; Dry: 15 micrometres at 10 m²/L.
10. VOC content: 32 g/L VOC.

18 Clear varnishes To External Cladding

1. Manufacturer: [POLYVINE LIMITED](#) or similar approved

1.1. Contact details

1.1.1. Address: Vine House
Cheddar Business Park
Cheddar

1.1.2. Telephone: +44 (0)1934 740305

1.1.3. Web: www.polyvine.com

1.1.4. Email: info@polyvine.co.uk

1.2. Product reference: [Exterior Wood Varnish](#)

2. Composition: Water-based.
3. Binder: Acrylic copolymer.
4. Sheen: Matt.
5. Colour: Clear.
6. Coverage: 10–20 m² per L.
7. Drying time: 1–2 hours (touch dry); 4 hours (recoatable).
8. Cure time: 5 days.

22 Handling and storage

1. Coating materials: Deliver in sealed containers, labelled clearly with brand name, type of material and manufacturer's batch number.
2. Materials from more than one batch: Store separately. Allocate to distinct parts or areas of the work.

28 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.

30 Preparation generally

1. Standard: In accordance with BS 6150.

2. Refer to any pre-existing CDM Health and Safety File and CDM Construction Phase Plan where applicable.
3. **Risk assessments and method statements for suspected hazardous materials:** Prepare for operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
4. **Preparation materials:** Types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
5. **Substrates:** Sufficiently dry in depth to suit coating.
6. **Efflorescence salts, dirt, grease and oil:** Remove. Give notice if contamination of surfaces/ substrates has occurred.
7. **Surface irregularities:** Provide smooth finish.
8. **Organic growths and infected coatings**
 - 8.1. Remove with assistance of biocidal solution.
 - 8.2. Apply residual effect biocidal solution to inhibit regrowth.
9. **Joints, cracks, holes and other depressions:** Fill with stoppers/ fillers. Provide smooth finish.
10. **Dust, particles and residues from preparation:** Remove and dispose of safely.
11. **Water-based stoppers and fillers**
 - 11.1. Apply before priming unless recommended otherwise by manufacturer.
 - 11.2. If applied after priming: Patch prime.
12. **Doors, opening windows and other moving parts**
 - 12.1. Ease, if necessary, before coating.
 - 12.2. Prime resulting bare areas.

32 Previously coated surfaces generally

1. **Preparation:** In accordance with BS 6150.
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. **Risk assessment and method statement for hazardous materials:** Prepare for 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.
 - 7.2. **Gloss-coated surfaces:** Provide key.
8. **Partly removed coatings**
 - 8.1. Apply additional preparatory coats.
 - 8.2. **Junctions:** Provide flush surface.
9. **Completely stripped surfaces:** Prepare as for uncoated surfaces.

35 Fixtures and fittings

1. **Risk assessment and method statement for hazardous materials:** Prepare for operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.

2. Removal: Before commencing work: Ironmongery, cover plates, grilles, wall clocks, and other surface mounted fixtures.
3. Replacement: Refurbish as necessary, refit when coating is dry.

36 Ironmongery

1. Removal: Before commencing work remove ironmongery from surfaces to be coated.
2. Hinges: Remove or cover
3. Replacement: Refurbish as necessary; refit when coating is dry.

37 Wood preparation

1. General: Provide smooth, even finish with lightly rounded arrises.
2. Degraded or weathered surface wood: Take back surface to provide suitable substrate.
3. Degraded substrate wood: Repair with sound material of same species.
4. Heads of fasteners: Countersink sufficient to hold stoppers/ fillers.
5. Resinous areas and knots: Apply two coats of knotting.
6. Defective primer: Take back to bare wood and reprime.

43 Plaster preparation

1. Nibs, trowel marks and plaster splashes: Scrape off.
2. Overtrowelled 'polished' areas: Provide suitable key.
3. Depressions around fixings: Fill with stopper/ filler.

60 Water-based finishing coats To All Walls In Dry Areas (A)

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
United Kingdom
SL2 5DS
 - 1.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 1.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 1.1.4. Email: project.support@akzonobel.com
 - 1.2. Product reference: [Dulux Trade Spraymatt](#)
2. Composition: Pigment: Lightfast Pigments. Binder: PVA copolymer emulsion. Solvent: Water.
3. Sheen: Matt.
4. Colour: White
5. Execution: Applying coating.
6. CoverageArea: 17 m²/L.
7. Application method: Brush, roller or airless spray.
8. Drying time: Touch dry: dependent on temperature and humidity. Recoat: 2–4 hours.
9. VOC Content (maximum): 0.9 g/L.
10. Solids content: White: 30% (nominal).

60 Water-based finishing coats To All Walls In Wet Areas (B)

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)

1.1. Contact details

- 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
United Kingdom
SL2 5DS
- 1.1.2. Telephone: +44 (0)333 222 7070
- 1.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
- 1.1.4. Email: project.support@akzonobel.com

1.2. Product reference: Dulux Kitchen & Bath

- 2. Composition: Pigment: Lightfast Pigments. Binder: PVA copolymer emulsion. Solvent: Water.
- 3. Sheen: Matt.
- 4. Colour: White
- 5. Execution: Applying coating.
- 6. CoverageArea: 17 m²/L.
- 7. Application method: Brush, roller or airless spray.
- 8. Drying time: Touch dry: dependent on temperature and humidity. Recoat: 2–4 hours.
- 9. VOC Content (maximum): 0.9 g/L.
- 10. Solids content: White: 30% (nominal).

61 Coating generally

- 1. Application: In accordance with BS 6150,
- 2. Conditions: Maintain suitable temperature, humidity and air quality.
- 3. Surfaces: Clean and dry at time of application.
- 4. Thinning and intermixing: Not permitted unless recommended by manufacturer.
- 5. Overpainting: Do not paint over intumescent strips or silicone mastics.
- 6. Priming coats: Apply 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.

68 Staining wood

- 1. Primer: Apply, if recommended by stain manufacturer.
- 2. Application: Apply in flowing coats and brush out excess stain to produce uniform appearance.

69 Varnishing wood

- 1. First coat: Thin with plant oil-based thinner
 - 1.1. Brush well in and lay off avoiding aeration.
- 2. Subsequent coats: Provide light key along the grain between coats.

70 External doors

- 1. Bottom edges: Prime and coat before hanging.

75 Bead glazing to coated wood

1. **Before glazing:** Apply first two coats to rebates and beads.

80 Linseed oil putty glazing

1. **Setting:** Allow putty to set for seven days.
2. **Sealing**
 - 2.1. Within a further 14 days, seal with a solvent-borne primer.
 - 2.2. Fully protect putty with coating system as soon as it is sufficiently hard.
 - 2.3. Extend finishing coats on to glass up to sight line.

Ω End of Section

N10

General fixtures/ furnishings/ equipment

To be read with preliminaries/ general conditions.

30 Shelf units To All Showers

1. Description: Shelves to showers
2. Manufacturer: [KEUCO](#) or similar anti-vandal item approved
 - 2.1. Contact details
 - 2.1.1. Address: 57 Sheffield Road
Dronfield
Derbyshire
United Kingdom
S18 2GF
 - 2.1.2. Telephone: +44 (0) 1442 865220
 - 2.1.3. Web: <https://www.keuco.com/gb/>
 - 2.1.4. Email: projects@keuco.co.uk
 - 2.2. Product reference: ELEGANCE Shower Shelf Soap Basket (11658010000)
3. Dimensions: 239 mm x 70 mm and 105 mm deep
 - 3.1. Shelf Spacing: Centred in each shower cubicle
4. Qty: 8
5. Carcass or frame
 - 5.1. Material: Steel
 - 5.2. Finish/ Colour: Chrome-plated.

80 Sealant

1. Description: To all sanitary ware
2. Standard: To [BS EN ISO 11600](#), Class F20 HM
3. Type: One-part silicone
4. Manufacturer: Contractor's choice
 - 4.1. Product reference: Contractor's choice
5. Colour: White
6. Other requirements: None
7. Application: As [section Z22](#).

170 Linked seats To All Changing Rooms

1. Manufacturer: [Bristol Panel Formers](#) or similar approved
2. Contact details
 - 2.1. Address: Unit 606 Central Park
Petherton Rd
Hengrove
Bristol
Avon
United Kingdom
BS149Z
 - 2.2. Telephone: [01275830544](tel:01275830544)
 - 2.3. Web: <https://bristolpanelformers.co.uk/>

2.4. Email: sales@bristolpanelformers.co.uk

3. Product reference: [Benches \(Polyrey washroom collection\)](#) or similar anti-vandal item approved
4. Fire performance: Manufacturer's standard.
5. Dimensions: To fit
6. Seats and backs
 - 6.1. Material: 12 mm-thick solid grade laminate (SGL); 300 mm bench seat.
 - 6.2. Finish: Polyrey washroom collection.
 - 6.3. Colour: TBC
7. Frames
 - 7.1. Material: Steel section.
 - 7.2. Finish: Ten-stage acid and zinc-plated, then polyester powder-coated.
 - 7.3. Colour: Black.
8. Integral accessories: Polyester powder-coated (PPC) aluminium coat hook.
9. Fixings: Through bolts, manufactured from non-corrosive materials.
10. Configuration:

180 Corner guards

1. Manufacturer: Inpro
2. Web: www.inprocorp.co.uk
 - 2.1. Email: jtomlin@inprocorp.com
3. Product reference: Aluminium Corner Guard
4. Material: Aluminium.
5. Size: 19 mm.
6. Fixing: Adhesive.

193 Writing Magnetic Boards To Changing Rooms

1. Manufacturer: Sundeala or similar anti-vandal item approved
2. Web: www.sundeala.co.uk
 - 2.1. Email: enquiries@sundeala.co.uk
3. Product reference: Sundeala Writing Wall
4. Board surface: White.

260 Shelving to Equipment Store

1. Product reference: Wide MDF Shelves on steel brackets
2. Size: 700mm x 450mm
3. Requirements: Provide 3 rows of shelves
4. Location: wall-mounted by Cleaner's Sink

270 Anti Vandal Mirrors To All WHB

1. Manufacturer: Anderson, GEC Ltd or similar anti-vandal item approved
2. Description: Polished stainless steel anti vandal mirrors above all WHB.
3. Web: www.gecanderson.co.uk
 - 3.1. Email: info@gecanderson.co.uk
4. Product reference: Stainless Steel Mirror
5. Standards: To BS EN 14301.

6. Materials and standards
 - 6.1. Materials: Stainless steel.
7. Dimensions: same width as WHB / trought x 1200 mm high.
8. Thickness: 1 mm.
9. Finish: Polished.
10. Edges
 - 10.1. Profile: Square.
11. Provision for fixing: Ashesive.
12. Pre-drilled holes: Not required.
13. Quantities required: 5.

300 Entrance Matting To Clubhouse

1. Manufacturer: Heckmondwike FB, Wellington Mills, Liversedge, West Yorkshire, WF15 7FH (T: 01924 410544) or similar approved
2. Product reference: Diamond, Sheet Barrier Matting
3. Roll Width: 2 metres
4. Colour: Charcoal.
5. Thickness: 10.5 mm.

700 Installation Generally

1. General: As per manufacturers recommendations.
2. Fixing and fasteners: As per manufacturers recommendations.
3. Blinds: Accurately aligned, not binding. Adjusted to ensure smooth operation.
4. Appliances:
 - Test: Ensure that all functions and features work correctly.
 - Documentation: Submit guarantees, instruction manuals, etc.
5. Fixing and fasteners: As per manufacturers recommendations.
6. Services: electrical supply required for switch.

770 Trims

1. Lengths: Wherever possible, unjointed between angles or ends of runs.
2. Running joints: Where unavoidable, obtain approval of location and method of jointing.
3. Angle joints: Mitred.

910 Documentation

1. Submit:
 - 1.1. Manufacturer's Operation / maintenance instructions.
 - 1.2. Product Guarantees

Ω End of Section

N12

Commercial catering fittings, furniture and equipment

Products

320 Worktop

1. Description: To Kitchen
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Dimensions: See 24-050-311 Floor plans as proposed
4. Material: Non-toxic polyethylene
5. Finish/ Colour: oak wood
6. Exposed edges: Laminate wood lipping
7. Support: Base units

340 Appliances Microwave

1. Item: Microwave
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Dimensions: Over counter unit
4. Material: Manufacturer's standard
5. Finish/ Colour: Manufacturer's standard
6. Capacity: Manufacturer's standard
7. Service connections: Electricity
8. Power rating: 550 W
9. Other requirements: None

380 Sinks, taps, traps and wastes

1. Description: to Kitchen
2. Sinks
 - 2.1. Manufacturer: Submit proposals
 - 2.1.1. Product reference: Submit proposals
 - 2.2. Configuration: Single sink with drainer
 - 2.3. Overall size: 1200 x 600 mm
 - 2.4. Material: Stainless steel grade 1.4301 (304)
 - 2.5. Finish/ Colour: Manufacturer's standard
3. Tap/ Chainstay/ Overflow holes: One tap hole, centre.
4. Taps: Mixer
 - 4.1. Manufacturer: Submit proposals
 - 4.1.1. Product reference: Submit proposals
 - 4.2. Operation: Lever
 - 4.3. Material: Chromed steel
5. Wastes: Pop-up
 - 5.1. Standard: To [BS EN 274-1](#), [BS EN 274-2](#) and [BS EN 274-3](#).
 - 5.2. Manufacturer: Submit proposals

5.2.1. Product reference: Submit proposals

5.3. Size: To fit sink

5.4. Material: Chromed steel

5.5. Tail: Unslotted

6. Traps: Deep seal bottle

6.1. Standard: To BS EN 274-1, -2 and -3.

6.2. Manufacturer: Contractor's choice

6.2.1. Product reference: Contractor's choice

6.3. Size: To fit sink

6.4. Material: Plastics, self-colour

6.5. Depth of seal (minimum): 75 mm

7. Other requirements: None

390 Food waste disposal units

1. Description: Integrated Bin Pull-out Unit

2. Manufacturer: Contractor's choice

2.1. Product reference: Contractor's choice

3. Capacity/ Output: Manufacturer's standard

4. Power rating/ motor: Manufacturer's standard

400 Dishwashing machines

1. Description: Over the counter dishwasher

2. Manufacturer: Submit proposals

2.1. Product reference: Submit proposals

3. Dimensions: Manufacturer's standard

4. Material: Stainless steel

5. Finish/ Colour: Polished

6. Capacity: Small

7. Service connections: Electricity

8. Water consumption: 3 L per wash cycle

9. Power rating Manufacturer's standard.

10. Accessories: Manufacturer's standard

11. Other requirements: None

410 Appliances Freezer

1. Item: Freezer

2. Manufacturer: Contractor's choice

2.1. Product reference: Contractor's choice

3. Dimensions: Under counter integrated unit

4. Material: Manufacturer's standard

5. Finish/ Colour: Manufacturer's standard

6. Capacity: Manufacturer's standard

7. Service connections: Electricity

8. Power rating: 550 W

9. Other requirements: None

410 Appliances Fridge

1. Item: Refrigerator
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Dimensions: Under counter integrated unit
4. Material: Manufacturer's standard
5. Finish/ Colour: Manufacturer's standard
6. Capacity: Manufacturer's standard
7. Service connections: Electricity
8. Power rating: 550 W
9. Other requirements: None

420 Cupboards and storage units Kitchen Units

1. Item: Kitchen Base Units and Drawers
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Dimensions: 24-050-311 Floor plans as proposed-
4. Material: Manufacturer's standard
5. Finish/ Colour: White
 - 5.1. Edges: Not required
6. Accessories: Adjustable legs

470 Sealant

1. Standard: To BS EN ISO 11600, class F20 HM
2. Type: One-part silicone
3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
4. Colour: White

Execution

620 Installation generally

1. Fixing and fasteners: As [section Z20](#).
2. Services: As services specification

630 Installing equipment, units, appliances and worktops

1. General: Correctly positioned and aligned, stable and secure.

640 Services to equipment, units and appliances

1. Connections: Provide to electric, and cold water services.

650 Installing sinks, taps, traps and wastes

1. Water supply: To [BS EN 806-1](#), [BS EN 806-2](#), [BS EN 806-3](#), [BS EN 806-4](#) and [BS EN 806-5](#) and [BS 8558](#).
2. Taps
 - 2.1. Fixing: Secure, watertight seal with the appliance.

2.2. **Positioning:** Hot tap to left of cold tap as viewed by the user of the appliance.

3. **Wastes**

3.1. **Bedding:** Waterproof jointing compound.

3.2. **Fixing:** With resilient washer between appliance and backnut.

660 Sealant bedding and pointing

1. **Application:** As section Z22

2. **Bedding:** Sink to top of worktop

3. **Pointing:** Between units and splashbacks

670 Trims

1. **Lengths:** Unjointed between angles or ends of runs.

2. **Angle joints:** Mitred.

Completion

910 General

1. **Doors and drawers:** Accurately aligned, not binding. Adjusted to ensure smooth operation.

2. **Ironmongery:** Checked, adjusted and lubricated to ensure correct functioning.

920 Equipment, units and appliances

1. **Test:** Ensure that all functions and features work correctly.

2. **Documentation:** Submit guarantees, instruction manuals, etc.

Ω End of Section

N13

Sanitary appliances and fittings

To be read with preliminaries/ general conditions.

10 WC pans and flushing arrangements

1. Standard: To Defra WC suite performance specification or equivalent approved by the relevant water company.
2. Type: Close-coupled cistern
 - 2.1. Material: Vitreous china
 - 2.2. Colour: White
3. Pan:
 - 3.1. Standards: To BS EN 33 and BS EN 997, Class 2
 - 3.2. Manufacturer: Ideal Standard (UK) Ltd or similar approved
 - 3.2.1. Product reference: Concept Arc Close Coupled Toilet With Aquablade Technology or similar anti-vandal item approved
4. Material: Vitreous china, white
5. Seat: To BS 1254 and Kitemarked, colour to match pan
6. Pan connector: To BS 5627, colour to match pan
7. Flushing arrangement: Cistern manufacturer's standard
 - 7.1. Manufacturer: As cistern
 - 7.1.1. Product reference: Contractor's choice
 - 7.2. Qty: 6

12 Accessible WC equipment packages

1. Description: To Accessible Changing Room
2. Manufacturer: [Ideal Standard \(UK\) Ltd](#) or similar approved
 - 2.1. Contact details
 - 2.1.1. Address: The Bathroom Works
National Avenue
Hull
HU5 4HS
 - 2.1.2. Telephone: [+44 \(0\)870 122 8822](tel:+44(0)8701228822)
 - 2.1.3. Web: <https://www.idealstandard.co.uk/>
 - 2.1.4. Email: ukcustcare@idealstandard.com
 - 2.2. Product reference: [Blend Curve Wall Hung Toilet Bowl](#) or similar anti-vandal item approved
3. Standard: To BS EN 997.
4. Form: Wall-mounted.
5. Connecting dimensions: To BS EN 33.
6. Pan height: 400 mm.
7. Materials
 - 7.1. Body: Vitreous china.
 - 7.2. Finish and colour: White (01).
8. Water supply, outlet and seat holes
 - 8.1. Outlet: Horizontal back outlet.
9. Integral accessories:

10. Weight: 24.70 kg.

11. Dimensions: 355 x 540 x 340 mm.

14 Unisex accessible shower room equipment packages (Document M)

1. Description: <https://nbs.fyi/6K6u4I>
2. Manufacturer: [Twyford Bathrooms](https://www.twyfordbathrooms.com) or similar approved
 - 2.1. Contact details
 - 2.1.1. Address: Lawton Road
Alsager
Stoke-on-Trent
Staffordshire
ST7 2DF
 - 2.1.2. Telephone: +44 (0) 1926 516 800
 - 2.1.3. Web: www.twyfordbathrooms.com
 - 2.1.4. Email: enquiries@geberit.co.uk
 - 2.2. Product reference: [Twyford Avalon Shower Set, Surface Mounting, Barrier-Free \(PK7020BE steel blue RAL 5011\)](#)
3. Form: Complete accessible shower Doc M package, fittings, surface mounting.
4. Material and colour
 - 4.1. Seat: Plastics, grey.
 - 4.2. Seat back: Plastics, grey.
 - 4.3. Shower curtains and rails: Plastics, white.
 - 4.4. Handrails: Coated aluminium, dark blue.
5. Water supply fittings
 - 5.1. Shower fittings: Fixed shower head, detachable shower head and hose including pipe, shower rail, shower tap.
 - 5.2. Finish: Chrome-plated.
 - 5.3. Operating control: Manual.
 - 5.4. Flow rate: 18.6 l/min. at 3 bar.
6. Integral accessories: Fastening material.

25 Sinks

1. Description: To Kitchen Worktop
2. Manufacturer: [Twyford Bathrooms](https://www.twyfordbathrooms.com) or similar approved
 - 2.1. Contact details
 - 2.1.1. Address: Lawton Road
Alsager
Stoke-on-Trent
Staffordshire
ST7 2DF
 - 2.1.2. Telephone: +44 (0) 1926 516 800
 - 2.1.3. Web: www.twyfordbathrooms.com
 - 2.1.4. Email: enquiries@geberit.co.uk
 - 2.2. Product reference: [Twyford Sola Lay-On Kitchen Sink, Slim Design, With One Sink \(PS8601SS\)](#)
3. Form: Inset.
4. Bowls: One.

5. Drainers: One, right-hand.
6. Materials
 - 6.1. Body: Stainless steel.
7. Size: 1028 x 500 mm.
8. Water supply, overflow and waste holes
 - 8.1. Water supply: Two tap holes.
 - 8.2. Overflow: No overflow hole.
 - 8.3. Waste: Centre.
9. Integral accessories: Waste outlet and fastening material.
10. Wastes: Strainer
 - 10.1. Manufacturer: Contractor's choice
11. Traps: Tubular, S-type
 - 11.1. Manufacturer: Contractor's choice

30 Countertop washbasins To Referee's Shower and WC

1. Manufacturer: [Villeroy & Boch AG](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: Saaruferstraße 1-3
Germany
66693 METTLACH
 - 1.1.2. Telephone: +49 (0) 6864 81 1500
 - 1.1.3. Web: <https://pro.villeroy-boch.com>
 - 1.1.4. Email: information@villeroy-boch.com
 - 1.2. Product reference: [Finion Surface-mounted Washbasin 414261 \(414261R1\)](#) or similar anti-vandal item approved
2. Standard: To EN 14688 and EN 31.
3. Form: Vanity top (vessel).
4. Materials
 - 4.1. Body: Ceramic.
 - 4.2. Finish and colour: White alpin ceramic plus, gloss.
5. Size: 600 x 445 mm.
6. Water supply, overflow and waste holes
 - 6.1. Water supply: Single tap hole, centred.
 - 6.2. Overflow: None.
 - 6.3. Waste: Bottom waste outlet. No chainstay hole.
7. Integral accessories: Unclosable valve with ceramic valve cover.
8. Weight: 16.4 kg.

40 Shower enclosures To Referee's Shower

1. Tray: Acrylic resin to BS EN 14527, Class 2, white as per N13-43
 - 1.1. Manufacturer: [Geberit Sales Ltd](#) or similar approved
 - 1.1.1. Contact details
 - 1.1.1.1. Address: Geberit House
Edgehill Drive
Warwick
Warwickshire

United Kingdom
CV34 6NH

- 1.1.1.2. Telephone: [+44 \(0\)1926 516800](tel:+44(0)1926516800)
- 1.1.1.3. Web: <https://www.geberit.co.uk/home/>
- 1.1.1.4. Email: enquiries@geberit.co.uk
- 1.1.2. Product reference: [Folding door GEO \(560.126.00.2, Geo bi fold door, LH or RH, 900 mm\)](#) or similar approved.
- 1.2. Form: Bi-fold door.
- 1.3. Materials
 - 1.3.1. Frame
 - 1.3.1.1. Body: Aluminium.
 - 1.3.1.2. Finish and colour: Polished silver.
 - 1.3.2. Glazing
 - 1.3.2.1. Glazing type: 6 mm toughened safety glass with PRO Clean glass protective coating.
 - 1.3.2.2. Finish and colour: Clear.
- 1.4. Side panel: Not required.
- 1.5. Tray:
- 1.6. Accessories/ Other requirements:
- 1.7. Width: To fit.

42 Shower fittings package To All Showers

- 1. Manufacturer: [Armitage Shanks](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: Armitage
Old Road
Rugeley
Staffordshire
WS15 4BT
 - 1.1.2. Telephone: [+44 \(0\)870 122 8822](tel:+44(0)8701228822)
 - 1.1.3. Web: <https://www.idealspec.co.uk/>
 - 1.1.4. Email: productinfo@idealspec.co.uk
 - 1.2. Product reference: [Kirm Shower Panel \(S7872\)](#) or similar anti-vandal item approved
- 2. Standards
 - 2.1. Shower mixers: To BS EN 10088: Part2: 2005.
- 3. Approvals: Water Regulations Advisory Scheme (WRAS)-approved and TMV3.
- 4. Form: Wall-mounted, lever operated, thermostatic valve.
- 5. Materials
 - 5.1. Body: Stainless steel.
 - 5.2. Finish and colour: Silver.
- 6. Weight: 11 kg.

43 Shower trays To Referee's Shower

- 1. Manufacturer: [Ideal Standard \(UK\) Ltd](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: The Bathroom Works
National Avenue

Hull
HU5 4HS

- 1.1.2. Telephone: [+44 \(0\)870 122 8822](tel:+44(0)8701228822)
- 1.1.3. Web: <https://www.idealstandard.co.uk/>
- 1.1.4. Email: ukcustcare@idealstandard.com
- 1.2. Product reference: [Ideal Standard Ultra Flat S i.life Shower Tray 100cm x 90cm \(Pure White - T5231FR\)](#)
- 2. Standards: To BS EN 14527.
- 3. Form: Rectangular.
- 4. Materials
 - 4.1. Body: Stone resin.
 - 4.2. Finish and colour: Textured matt, pure white.
- 5. Size: 1000 x 900 mm. Size to be checked before ordering.
- 6. Waste hole: Offset, centre (waste on the short side).
- 7. Integral accessories: Integrated waste cover.
- 8. Height: 30 mm.
- 9. Net weight: 31.60 kg.

60 Toilet paper dispensers To All WCs

- 1. Manufacturer: [Dudley Industries Limited](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: Preston Road
Lytham
Lancashire
FY8 5AT
 - 1.1.2. Telephone: [+44 \(0\)1253 738311](tel:+44(0)1253738311)
 - 1.1.3. Web: <https://www.dudleyindustries.com/>
 - 1.1.4. Email: sales@dudleyindustries.com
 - 1.2. Product reference: [Jumbo Toilet Roll Dispenser Complete System Anti Ligature Range 89424SS \(89424WB\)](#) or similar anti-vandal item approved
- 2. Form: Wall mounted large roll dispensers.
- 3. Materials
 - 3.1. Body: Stainless steel.
- 4. Dimensions: 400 x 398 x 140 mm.
- 5. Qty: 7

62 Soap dispensers To All WHBs & Trhoughs

- 1. Description: Hand Soap Dispenser
- 2. Manufacturer: [Delabie UK Ltd](#) or similar approved
 - 2.1. Contact details
 - 2.1.1. Address: Henderson House
Hithercroft Road
Wallingford
Oxfordshire
OX10 9DG
 - 2.1.2. Telephone: [+44 \(0\)1491 824449](tel:+44(0)1491824449)
 - 2.1.3. Web: <https://www.delabie.co.uk>

2.1.4. Email: info@delabie.co.uk

2.2. Product reference: White, 1 L - 512066W or similar anti-vandal item approved

3. Type: As sanitary schedule
4. Size: Manufacturer standard
5. Material: Plastics
6. Colour: White

64 Hand dryers To All WHBs & Throughs

1. Description: Hand Dryer
2. Standard: To BS EN 60335-2-23.
3. Type: Manufacturer standard
4. Manufacturer: [Heat Outdoors & Handy Dryers](#) or similar a approved
 - 4.1. Contact details
 - 4.1.1. Address: Unit 9 Stort Valley
Industrial Estate
Bishop's Stortford
CM23 2TU
 - 4.1.2. Telephone: + (0) 1279 466 500
 - 4.1.3. Web: www.handydryers.co.uk
 - 4.1.4. Email: info@handydryers.co.uk
 - 4.2. Product reference: Crocodillo T2 Blade Hand Dryer (Metallic Silver Powder Coated) or similar anti-vandal item approved
5. Heater power rating: Manufacturer Standard
6. Controls: Automatic
7. Enclosure: ABS plastics
 - 7.1. Colour: White

67 Sanitary appliance brackets and supports

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice but allow for anti-vandal support
2. Type: Manufacturer's standard
3. Material: Manufacturer's standard
4. Finish: Manufacturer's standard
5. Colour: White

68 Sealant for pointing

1. Standard: To BS EN ISO 11600
 - 1.1. Class: F20 HM
2. Type: Silicone
 - 2.1. Manufacturer: Contractor's choice
 - 2.1.1. Product reference: Contractor's choice
3. Colour: White

69 Support rails and grab bars

1. Manufacturer: See NBS N13-12 and NBS N13-14
 - 1.1. Product reference: See NBS N13-12 and NBS N13-14

2. **Type:** As sanitary schedule
3. **Material:** As sanitary schedule
4. **Colour:** See NBS N13-12 and NBS N13-14
5. **Size:** As sanitary schedule
6. **Stand-off wall:** 50 mm distance

70 Installation generally

1. **Standards:** In accordance with BS 6465-1, -2 and -3.
2. **Assembly and fixing:** Fix appliances securely to structure, without taking support from pipelines, level and plumb and so that surfaces designed to fall drain as intended.
3. **Fasteners:** Non-ferrous or stainless steel.
4. **Jointing and bedding compounds:** Recommended by manufacturers of appliances, accessories and pipes, to form watertight joints between appliances and backgrounds (except cisterns) and between appliances and discharge pipes.
5. **Supply and discharge pipework:** Fix before appliances.
6. **Timing:** Tiled backgrounds, other than splashbacks, complete before fixing appliances. Do not overstress tiles when fixing appliances.
7. **On completion:** Components and accessories working correctly with no leaks.
8. **Labels and stickers:** Remove.

73 Installing sanitary appliances and fittings

1. **Extent**
 - 1.1. **Sanitary appliances:** As drawing 24-050-311 Floor plans as proposed
 - 1.2. **Water supply fittings:** As drawing 24-050-311 Floor plans as proposed
 - 1.3. **Accessories:** As drawing 24-050-311 Floor plans as proposed

76 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.

77 Installing wastes and overflows

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

78 Installing hand dryers

1. **Fused connection units**
 - 1.1. **Type:** Switched
 - 1.2. **Engraving:** With 'HAND DRYER'.
 - 1.3. **Location:** Next to hand dryer. See 24-050-311 Floor plans as proposed-
2. **Final connection:** Concealed.
 - 2.1. **Containment:** 25 mm PVC-U rigid conduit

81 Sealant bedding and pointing

1. **Bedding:** Bed and point basins to underside of vanity units
2. **Pointing:** Joints between appliances and splashbacks

145 Wash Through To Changing Rooms

1. Manufacturer: [Dunhams Washroom Systems](#) or similar approved
2. Contact details
 - 2.1. Address: The Granary
School Road
Neatishead
Norwich
Norfolk
NR12 8BU
 - 2.2. Telephone: [+44 \(0\)1603 424855](tel:+44(0)1603424855)
 - 2.3. Web: <https://www.dunhamswashrooms.com/>
 - 2.4. Email: info@dunhamswashrooms.com
3. Product reference: [Sanivé® Flow Solid Surface Wash Trough](#) or similar anti-vandal item approved
4. Form: Wall-mounted.
5. Stations: Three.
6. Materials
 - 6.1. Body: Solid surface.
 - 6.2. Finish and colour: Corian Glacier White.
7. Size: 800 x 400 mm.
8. Water supply, overflow and waste holes
 - 8.1. Overflow: None.
 - 8.2. Waste: One high flow grated waste included per trough.
9. Length: To fit
10. Carcass or frame: Factory-constructed WBP ply sub-frame with pre-fitted access panels and integral factory laminated 100 mm plinth.
11. Panels: 12/13 mm solid grade laminate. Profile radiused and polished edge.
12. Colour/ Finish: Dark grey
13. Options: Hinged/ lockable access panels.

331 Cleaner's Sink

1. Manufacturer: [Shaws of Darwen](#) or similar approved
2. Contact details
 - 2.1. Address: Third Floor, North Dome
Design Centre Chelsea Harbour
Lots Road
London
United Kingdom
SW10 0XE
 - 2.2. Telephone: [07443186488](tel:07443186488)
 - 2.3. Web: www.shawsofdarwen.com
 - 2.4. Email: stephen.ferry@houseofrohl.com
3. Product reference: [Cleaner Sink Pack \(CL02-PACK-A - 20" Cleaner sink pack, lever taps\)](#)
4. Form: Cleaner's sink.
5. Materials
 - 5.1. Body: Fireclay.
 - 5.2. Finish and colour: White, glazed.
6. Size: 515 x 382 x 393 mm.

7. Water supply, overflow and waste holes
 - 7.1. Water supply: No tap holes.
 - 7.2. Overflow: None.
 - 7.3. Waste: Bottom.
8. Integral accessories: Integral hinged stainless steel grating, legs, brackets, waste and trap.
9. Taps: Lever taps.
10. SinkType: 20" low back cleaner.

335 Washbasin taps To All WHBs and Throughs

1. Manufacturer: [dline](#) or similar approved
2. Contact details
 - 2.1. Address: 17 Key Business Park
Kingsbury Road
Birmingham
B24 9PT
 - 2.2. Telephone: [+44 \(0\)121 3734488](tel:+44(0)1213734488)
 - 2.3. Web: <https://dline.co.uk/>
 - 2.4. Email: uksales@dline.com
3. Product reference: [Qtoo collection: Built-in sensor tap, 190 mm \(QST3190M, Stainless steel, satin\)](#) or similar anti-vandal item approved
4. Description: 190 mm infrared sensor tap for wall installation.
5. Manufacturer: dline.
6. Approvals: Water Regulations Advisory Scheme (WRAS)-approved.
7. Form: Automatic action thermostatic mixer taps.
8. Materials
 - 8.1. Body: AISI 316 stainless steel.
 - 8.2. Finish and colour: Silver, satin.
9. Flow rate (maximum): 5 L/minute at 3 bar.
10. Projection: 190 mm.

429 Clothes hooks To All Shower Doors

1. Manufacturer: [Hafele UK Ltd](#) or similar approved
2. Contact details
 - 2.1. Address: Swift Valley Industrial Estate
Rugby
Warwickshire
CV21 1RD
 - 2.2. Telephone: [+44 \(0\)800 171 2907](tel:+44(0)8001712907)
 - 2.3. Web: https://www.hafele.co.uk/en/info/project/358/?hafref=Direct_None_MK0023-ProjectsNBSlink_72393892_HUK
 - 2.4. Email: Estimating.HUK@hafele.co.uk
3. Product reference:

or similar approved [Coat Hook Buffered \(HUKP-0105-21\)](#) or similar anti-vandal item approved
4. Form: Coat hook, rubber buffered.
5. Material: Stainless steel, grade 1.4401 (316).
6. Colour: Satin stainless steel.

7. Dimensions: 75 x 36 mm.
8. Qty: 8

474 Waste bins To WC, Accessible Shower Room and All Changing Rooms

1. Manufacturer: See clause NBS N10-170
2. NOTE: Clothes Hooks for Changing Rooms to be integral parts of the benches
3. Qty: 5

Ω End of Section

N14

General internal signage systems

General

110 Signage system

1. Description: To Changing Rooms Doors, WC, Refere's Changing; Accessible Changing; Store
2. System manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Sign type: Aluminium plate
4. Layout and dimensions: Submit proposals
5. Lettering
 - 5.1. Language: English
 - 5.2. Font: Helvetica Medium
 - 5.3. Colour: White RAL 9010
 - 5.4. Size: Manufacturer's standard range
6. Writing required: Room Names
7. Background colour: Manufacturer's standard range
 - 7.1. Inserts: None
8. Supports/ fixings: Door-mounted, self-adhesive
9. Accessories: Not required

Products - Not Used

Execution

610 Fixing signs generally

1. Installation: Secure, plumb and level.
2. Strength of fasteners: Sufficient to support all live and dead loads.
3. Fasteners and/ or adhesives: As section Z20.
4. Fixings showing on surface of sign: Must not detract from the message being displayed.

620 Fixing signs for the visually impaired

1. Protection of users
 - 1.1. Fasteners for tactile/ Braille signs must not have sharp edges or protrusions that would cause confusion or injury to users.

Completion

910 Documentation

1. Submit
 - 1.1. Manufacturer's maintenance instructions.
 - 1.2. Guarantees, warranties, test certificates, record schedules and log books.

Ω End of Section

N15

Internal fire and safety signage systems

General

110 Fire and safety signage systems

1. Description: FOR ESCAPE ROUTE
2. System manufacturer: Contractor's choice
 - 2.1. System reference: Contractor's choice
3. Location and layout: As drawing 24-050-339-Ground Floor Fire Strategy plan-
 - 3.1. Language: English.
4. Material: Submit proposals
 - 4.1. Other properties: Submit proposals

125 Photoluminescent way guidance system

1. Description: Fire Exit
2. System manufacturer: Contractor's choice
 - 2.1. System reference: Contractor's choice
3. Locations and layout: As drawing 24-050-339-Ground Floor Fire Strategy plan-
4. Material: Manufacturer's standard

System performance

210 General requirements

1. Signage and way guidance system design:
 - 1.1. For fire escape and evacuation signage: In accordance with: BS 5499-4 or BS ISO 16069.
 - 1.2. For way guidance systems: In accordance with BS ISO 16069.
 - 1.3. For safety signs other than escape route signage: In accordance with: BS 5499-10.
2. Comply with the requirements of: Fire strategy drawing

220 Sign design and format

1. Description:
2. Format: In accordance with BS EN ISO 7010
3. Geometric shapes, colours and layout: In accordance with BS ISO 3864-1.
4. Design principles for graphical symbols: In accordance with BS ISO 3864-3.
5. Colorimetric and photometric properties of safety sign materials: In accordance with BS ISO 3864-4.
6. Water safety: In accordance with BS EN ISO 7010.

260 Photoluminescent properties

1. Description: FOR ESCAPE ROUTE SIGNAGE
2. Luminance decay classification to BS ISO 17398: A

270 Fire performance

1. Description: OF FIRE ESCAPE SIGNAGE SYSTEM
2. Reaction to fire

2.1. Standard: To BS EN 13501-1

Products - Not Used

Execution

610 Fixing signs generally

1. Installation:
2. Secure, plumb and level.
3. Fasteners and adhesives: As section Z20.
4. Strength of fasteners: Sufficient to support live and dead loads.
5. Fixings showing on surface of sign: Must not detract from the message being displayed.

Completion

910 Documentation

1. Submit
 - 1.1. Manufacturer's maintenance instructions.
 - 1.2. Guarantees, warranties, test certificates, record schedules and logbooks.

Ω End of Section

T90

Heating systems

General

110 Heating system

1. Description: Air Source Heat Pump
2. System: Submit design and cost proposals
3. Distribution: Submit design and cost proposals
4. Heat source: Air source heat pumps, air-to-air
5. Flues: Submit design and cost proposals
6. Pipelines: Submit design and cost proposals
7. Circulating pumps: Submit design and cost proposals
8. Insulation: Submit design and cost proposals
9. System control: Submit design and cost proposals
10. Completion: Documentation

System performance

225 Thermal insulation of building fabric

1. Heat loss calculations: Base on the following maximum U-values:
 - 1.1. Floors: 0.15 W/m²K
 - 1.2. Walls: 0.18 W/m²K
 - 1.3. Windows: Manufacturer Standard
 - 1.4. Roofs: 0.16 W/m²K

240 Heating system capacity

1. Requirement: Submit Proposal
2. Boiler output: Total calculated heat loss, including emission from the system pipelines
3. Total heat load: Calculated to BS EN 12831-1
4. Heat-up load: Submit Proposal

241 Heating and hot water supply system capacity

1. Requirement: To heat up all showers and taps
2. Boiler output: Total calculated heat loss, including emission from the system pipelines, and to meet the domestic hot water supply requirements
3. Total heat load: Calculated to BS EN 12831-1 and -3
4. Heat-up load: Submit Proposal

250 System control

1. Temperature and time control Fully automatic and independent.
2. Controls: Compatible with each other

Products

425 Valves generally

1. **Types:** Approved for the purpose by local water supply undertaker and of appropriate pressure and temperature ratings
2. **Control of valves:** Fit with handwheels for isolation and lockshields for isolation and regulation of circuits or equipment

441 Manifold for underfloor heating

1. **Manufacturer:** Contractor's choice
 - 1.1. **Product reference:** Contractor's choice
2. **Accessories:** Contractor's choice

478 Underfloor heating

1. **Manufacturer:** Contractor's choice
 - 1.1. **Product reference:** Contractor's choice
2. **Standards:** To BS EN 60335-1 and BS EN IEC 60335-2-96
3. **Accessories:** Submit proposals

485 Thermostats

1. **Description:** Submit Proposal
2. **Standards:** To BS EN 60730-1 and BS EN IEC 60730-2-9. BEAB-approved
3. **Manufacturer:** Contractor's choice
 - 3.1. **Product reference:** Contractor's choice

500 Air-to-air heat pumps

1. **Description:** Submit Proposal
2. **Standards:** Safety and environmental: To BS EN 378-1 and -2
3. **Type:** Self-contained
4. **Manufacturer:** Contractor's choice
 - 4.1. **Product reference:** Contractor's choice
5. **Output:** Submit proposals

Execution

610 Installation generally

1. **Standard:** To BS EN 14336
2. **Performance:** Free from leaks and the audible effects of expansion, vibration and water hammer
3. **Fixing of equipment, components and accessories:** Fix securely, parallel or perpendicular to the structure of the building
4. **Preparation:** Immediately before installing tanks and cisterns on a floor or platform, clear the surface completely of debris and projections
5. **Corrosion resistance:** In locations where moisture is present or may occur, use corrosion-resistant fittings/ fixings and avoid contact between dissimilar metals by use of suitable washers, gaskets, etc.

675 Installation of underfloor heating

1. **Standards:** In accordance with BS 7671

2. Heat emitter fixings: Rail with clips

680 Installation of heat pumps generally

1. Standards: To BS EN 378-3 and BS EN 378-4
2. Fixing of equipment, components and accessories: Fix securely on purpose-made bases or supports
3. External units: Protect from high winds. Prevent snow from blocking air flow
4. Access: Provide for inspection and servicing of heat pumps and ancillary equipment
5. Refrigerant lines: Short and straight
6. Location of outdoor unit: Away from windows and adjacent buildings

Completion

810 Testing

1. Standard: To BS EN 14336
2. Notice (minimum): Three days
3. Preparation: Secure and clean pipework and equipment. Fit cistern/ tank covers
4. Leak testing: Start boiler and run the system until parts are at normal operating temperatures and then allow to cool to cold condition for a period of three hours
5. Pressure testing: For systems fed from storage: At both hot and cold conditions, joints, fittings and components must be free from leaks and signs of physical distress when tested for at least one hour when applying a test pressure equal to the pressure produced when the storage cistern is filled to its normal maximum operating level

820 Setting to work and commissioning

1. Equipment: Check and adjust operation of equipment, controls and safety devices
2. Outlets: Check operation of outlets for satisfactory rate of flow and temperature

835 Testing and commissioning for underfloor heating

1. Standards: In accordance with BSRIA Guide BG 4/2011

840 Documentation

1. Manufacturers' operating and maintenance instructions: Submit for equipment and controls
2. System operating and maintenance instructions: Submit for the system as a whole giving optimum settings for controls
3. Record drawings: Submit drawings showing the location of circuits and operating controls

850 Labels

1. Valve labels: Provide labels on isolating and regulating valves on primary circuits, stating their function

Ω End of Section

V90 Electrical systems

General - Not Used

System performance

210 Design of low-voltage electrical installation generally

1. Design and detailing: Complete for the electrical installation.
2. Standards: In accordance with [BS 7671](#), as [amended](#), and the requirements of the electricity distributor.
3. Distribution circuits
 - 3.1. Spare capacity: Submit design and cost proposals
 - 3.2. Conductor sizes (minimum): Submit design and cost proposals
4. Spare capacity of distribution equipment: Submit design and cost proposals
5. Protective devices: Coordinate the selection and adjustment of protective device settings to achieve discrimination throughout the fault level range. Grade so that a fault on any outgoing branch circuit is cleared by the switching device installed in the faulted branch circuit without affecting the other outgoing branch circuits
6. Final circuits
 - 6.1. Spare capacity: Submit design and cost proposals
 - 6.2. Conductor sizes (minimum): Submit design and cost proposals
7. Selection of cables, conduit, trunking and ducting: Submit sizes where not stated
8. Equipment: Provide electrical supplies to equipment requiring power
9. Proposals: Submit design and cost proposals
10. Verification: system performance
 - 10.1. Submittals: Samples and verification of individual performance
 - 10.2. Timing: Before completion

222 Design of photovoltaic system

1. Design and detailing: Complete for the photovoltaic system.
2. Standards: To [BS EN 50549-1](#), and in accordance with [EN A EREC G98](#)
3. Output: Determine a suitable rating for the installation.
4. General: Manage and liaise with the electricity distributor
5. Testing and commissioning: Incorporate adequate measures to allow full testing and commissioning of the completed system.

240 Design of general lighting system

1. Design and detailing: Complete for the general lighting system.
2. Standard: In accordance with [SLL Code for lighting](#)
3. Maintenance: Submit proposals for the maintenance/ relamping regime

250 Design of emergency lighting system

1. Design and detailing: Complete for the emergency lighting system.
2. Standards
 - 2.1. Emergency escape lighting: In accordance with [BS 5266-1](#)

2.2. Escape route, open area, high-risk task area and standby lighting: To [BS EN 1838](#) and [BS EN 50172](#)

3. System classification: Submit design and cost proposals

4. Method of testing: Central manual test facility

265 Design and lighting calculations

1. Proposals: Submit drawings, technical information, calculations and manufacturers' literature

2. Lighting calculations

2.1. Type: Computer-generated point calculations

3. Submit the following: Luminaire layout drawings and full electrical design

Products

312 Photovoltaic modules

1. Manufacturer: [InstaGroup Ltd](#) or similar approved

1.1. Contact details

1.1.1. Address: Insta House Ivanhoe Road
Hogwood Business Park
Finchampstead
Wokingham
Berkshire
RG40 4PZ

1.1.2. Telephone: [+44 \(0\)118 973 9560](tel:+44201189739560)

1.1.3. Web: <https://www.instagroup.co.uk>

1.1.4. Email: info@instacoustic.co.uk

1.2. Product reference: [InstaGen Solar Panels](#) or similar approved

2. Third-party certification: TUV and MSC certified.

3. Application class: To BS EN 61140, Class II.

4. Cell type: Monocrystalline to BS EN IEC 61215-1.

5. Framework

5.1. Material: Anodized aluminium alloy.

5.2. Colour: Black.

6. Module interconnections

6.1. Module connectors: MC4 compatible.

6.2. Ingress protection (minimum): IP68 (junction box).

7. Nominal output of module

7.1. Peak power:

7.2. Power output tolerance: 0–5 W.

8. Bypass diodes: 3/6.

9. Output warranty:

10. Size:: 1724 x 1134 x 30 mm.

320 Distribution boards

1. Manufacturer: Submit proposals

1.1. Product reference: Submit proposals

2. Standards: To [BS EN IEC 61439-1](#) and [BS EN 61439-3](#)

3. Third-party certification: ASTA-certified

4. Rated operational voltage (Ue): Submit proposals
5. Rated operational frequency: Submit proposals
6. Rating: Submit proposals

511 Lamps generally

1. Manufacturer: Submit proposals
 - 1.1. Lamps of the same type and rating: Same manufacturer.
2. Standards
 - 2.1. Light-emitting diodes (LEDs): To [BS EN IEC 62031](#)

590 Energy storage batteries To store solar panel gain

1. Manufacturer: [InstaGroup Ltd](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: Insta House Ivanhoe Road
Hogwood Business Park
Finchampstead
Wokingham
Berkshire
RG40 4PZ
 - 1.1.2. Telephone: [+44 \(0\)118 973 9560](tel:+44(0)1189739560)
 - 1.1.3. Web: <https://www.instagramroup.co.uk>
 - 1.1.4. Email: info@instacoustic.co.uk
 - 1.2. Product reference: [InstaGen Battery Storage Solution \(LV05\)](#)
2. Description: Residential modular battery storage system.
3. Manufacturer: InstaGroup.
4. Standards: To IEC62619/ UN38.3.
5. Supply voltage: 51.2 V.
6. Configuration: 1P16S.
7. Enclosure
 - 7.1. Ingress protection (minimum): IP65.
8. Energy rating: 5.12 kWh.
9. Current: 50 A.
10. Weight: 62.5 kg.
11. Size:: 665 x 200 x 503 mm.

Execution

610 Electrical installation generally

1. Standard: In accordance with [BS 7671](#), as [amended](#)

615 Installing connection to incoming supply

1. Main switchboard/ distribution board: Connect to main incoming metering equipment.
2. Nature of connection: Liaise with the DNO to ensure the correct size, quantity and type of cable is provided for connection to their equipment.

620 Installing photovoltaic systems

1. Standards: In accordance with [ENA EREC G98](#)

2. Installer: Submit proposals
3. Location of collector modules: Submit proposals
4. Location of inverter and controls: Submit proposals
5. Connection to building installation: Submit proposals

Completion

810 Final fix

1. Accessory faceplates, luminaires and other equipment: Fit after completion of building painting

820 Cleaning

1. Electrical equipment: Clean immediately before handover
2. Equipment not supplied but installed under the electrical works: Clean immediately before handover

830 Inspection and testing generally

1. Standard: In accordance with [BS 7671](#), as amended
2. Notice before commencing tests (minimum): 24 hours
3. Labels and signs: Fix securely before system is tested
4. Certificates: Submit
 - 4.1. Number of copies: Two

840 Testing and commissioning of photovoltaic systems

1. Standards: To [BS EN 62446-1](#), [BS EN 50549-1](#) and in accordance with [EN 50549-1](#)
2. Microgeneration Certification Scheme: Submit certificate
3. Documentation: To [BS EN 62446-1](#), annex A and annex C

860 Inspection and testing of emergency lighting systems

1. Standard: In accordance with [BS 5266-1](#)
2. Certificate of testing: Submit
 - 2.1. Standard: To [BS 5266-1](#), annex H
 - 2.2. Number of copies: Two
3. System log book: To [BS 5266-1](#)

880 Documentation

1. Timing: Submit at practical completion
2. Contents: Manufacturers' operating and maintenance instructions for fittings and apparatus including relamping instructions for luminaire types. Identify hazardous lamps that require specialist disposal; Manufacturers' guarantees and warranties; As-installed drawings showing circuits and their ratings and locations of fittings and apparatus; Full technical description of each system installed.

890 Maintenance

1. Servicing and maintenance: Undertake
 - 1.1. Duration: Until 12 months after practical completion

Ω End of Section

Z20

Fixings and adhesives

To be read with preliminaries/ general conditions.

20 General requirements for fixings

1. Materials need to have:
 - 1.1. Atmospheric corrosion resistance appropriate to fixing location.
 - 1.2. Bimetallic corrosion resistance appropriate to items being fixed.
 - 1.3. Fire resistance appropriate to fixing location and application.
 - 1.4. Material safety and data sheets (MSDS).

21 General requirements for adhesives

1. Adhesives need to have:
 - 1.1. Fire resistance appropriate to location and application.
 - 1.2. Material safety and data sheets (MSDS).

Products

30 General fixings

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice

31 Bolts and bolt assemblies

1. Bolt assembly system: Contractor's choice
2. Thread form: British Standard Fine (BSF)
3. Bolts
 - 3.1. Manufacturer: Contractor's choice

39 Adhesives

1. Manufacturer: Contractor's choice
2. Properties
 - 2.1. Form: One-component

40 Bonding agents and compounds

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice

Execution

61 Installing fixings generally

1. Preparation: As per Manufacturer's instructions
2. Installation: As per Manufacturer's instructions
3. Testing: As per Manufacturer's instructions

70 Applying adhesives

1. Surface preparation: As per Manufacturer's instructions

2. Finished joints: As per Manufacturer's instructions
3. Other requirements: None

Ω End of Section

Z22 Sealants

Products

310 Joints

1. Description: As per Manufacturer's instructions
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Primer, backing strip, bond breaker: Types recommended by sealant manufacturer.
4. Fire performance
 - 4.1. Fire resistance: Manufacturer's standard
 - 4.2. Reaction to fire: Manufacturer's standard

Execution

620 Preparing joints

1. Surfaces to which sealant must adhere
 - 1.1. Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
 - 1.2. Clean using materials and methods recommended by sealant manufacturer.
2. Vulnerable surfaces adjacent to joints: Mask to prevent staining or smearing with primer or sealant.
3. Backing strip and/ or bond breaker installation: Insert into joint to correct depth, without stretching or twisting, leaving no gaps.
4. Protection: Keep joints clean and protect from damage until sealant is applied.

630 Applying sealants

1. Substrate: Dry (unless recommended otherwise) and unaffected by frost, ice or snow.
2. Environmental conditions: Do not dry or raise temperature of joints by heating.
3. Sealant application: Fill joints completely and neatly, ensuring firm adhesion to substrates.
4. Sealant profiles
 - 4.1. Butt and lap joints: Slightly concave.
 - 4.2. Fillet joints: Flat or slightly convex.
5. Protection: Protect finished joints from contamination or damage until sealant has cured.

Ω End of Section



Specification created using NBS Chorus