

Axis Architecture Limited

Wickham and Knowle Parish Council

Extension Knowle Village Hall

24-004 - General Specification

19-09-2025

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C14

Building services surveys

Surveys generally

110 Building services surveys generally

1. **Description:** Contractor to allow for surveying services and connections prior commencing works.
2. **Survey type:** Condition survey; drainage survey; ground conditions.
3. **Objectives:** M&E assessment and design; drainage design; structural engineer design.
4. **Surveyors:** Submit evidence of qualifications and experience, prior to commencing the survey
5. **Risk assessments and method statements:** Submit prior to the survey commencing

130 Site access

1. **Description:** Site accessible by Knowle Avenue
2. **Generally:** No restrictions
3. **Contact details:** Sophie Thorogood
clerk@wickhamknowleparish.gov.uk
07770 246293

150 Preliminary work

1. **Description:** Contractor to forward proposal

170 Mechanical and electrical systems surveys generally

1. **Description:** As required to produce full M&E Design
2. **Survey types:** Intrusive if required
3. **Information to be gathered for all systems identified:** Locations of plant and equipment; Service distribution routes and sizes; Equipment manufacturer and product details; Appropriate test results; Adequate access for maintenance
4. **Survey outputs**
 - 4.1. **Drawings:** Provide general arrangement drawings for all equipment and controls
 - 4.2. **Reports:** Written report with a contents list and executive summary
 - 4.3. **Digital visualization:** N/A

180 Mechanical services surveys

1. **Description:** As required to produce full mechanical and foul drainage design
2. **Scope:** Existing drains and surface water
3. **Utility connections**
 - 3.1. **Type:** Incoming water supply connection surveys
4. **Water reclamation**
 - 4.1. **Type:** Grey water reclamation; Rainwater reclamation
5. **Hot and cold water supply**
 - 5.1. **Type:** Hot and cold water supply systems
6. **Heating and cooling systems**
 - 6.1. **Type:** Heat pump installations as part of the proposal
 - 6.2. **System interactions:** Submit proposal
7. **Ventilation and air-conditioning systems**

- 7.1. **Type:** Kitchen extract systems; Submit proposal
- 7.2. **Systems integrations:** Submit proposal
- 8. Firefighting and fire suppression systems
 - 8.1. **Type:** Dry risers
 - 8.2. **System interactions:** Submit proposal

190 Electrical services surveys

- 1. **Description:** As required to produce a full Electrical Design
- 2. Utility connections
 - 2.1. **Type:** Incoming electricity supply connection surveys
 - 2.2. **Systems interactions:** Submit proposal
- 3. On-site generation of electricity
 - 3.1. **Type:** Photovoltaic (PV) systems proposed. Contractor to check suitability
 - 3.2. **Systems interactions:** Submit proposal
- 4. Low-voltage distribution, small power systems and lighting
 - 4.1. **Type:** General lighting systems
 - 4.2. **Systems interactions:** Submit proposal

210 Incoming electricity supply connection surveys

- 1. **Description:** As required to produce a full Electrical Design
- 2. **Supply:** Assessment of the supply characteristics as defined in [BS 7671](#), as amended by [BS 7671 Corrigendum](#) and [BS 7671 Amendment 3](#)
- 3. **Details:** Obtain from the electricity supplier
- 4. **Capacity:** Estimate based on the size and capacity of main incoming protection device
- 5. **Distribution equipment:** Locate, identify and report on switchgear
- 6. **Electricity metering:** Identify type and location of metering
- 7. **Main supply cables:** Identify cable types, sizes, quantities and configuration

215 Incoming water supply connection surveys

- 1. **Supply:** Assessment of compliance with [Water Supply \(Water Fittings\) Regulations](#)
- 2. **Stopcock/ boundary box:** Location – allow for survey
- 3. **Meter:** Location – allow for survey
- 4. **Pipework:** Pipework size, route and material – allow for survey
- 5. **Building entry detail:** Valve locations and arrangement – allow for survey

220 Incoming gas supply connection surveys

- 1. **Description:** Gas supply to be capped off. Contractor to survey existing connection and incoming point to be able to produce full proposal to decommission gas supply
- 2. **Supply:** Identify location and submit proposal to decommission gas supply
- 3. **Service valves:** Service valve/ emergency control valve (ECV) locations – submit proposal for decommissioning
- 4. **Building entry detail:** Detail of building entry/ penetration – provide written description and photographs in condition report.

225 Incoming telecoms and data provision surveys

- 1. **Description:** As required to produce a full Electrical Design

2. Requirements: Assessment of compliance with [BS 6701](#)
3. Main termination point: Type and location – allow for survey
4. Incoming cable: Type, routes and sizes

235 Photovoltaic systems surveys

1. Description: No existing Photovoltaic panels. Survey for suitability.

265 Hot and cold water supply systems surveys

1. Description: Allow for survey to produce proposed design
2. Water storage: Internal condition, including cleanliness, sediment, biological growth, etc. – provide written description and photographs in condition report.
3. Water treatment: Equipment age and condition – provide written description and photographs in condition report.
4. Controls: Assessment of operation and condition – record in condition report.
5. Fixtures and appliances: Fixture types (sink, WC, washbasin, etc.), quantities and locations – show on drawings.

275 Heat pump installations surveys

1. Description: Allow for survey to check suitability of heat pump installation
2. Requirements: Assessment of compliance with [BS 7671](#), as amended by [BS 7671 Corrigendum](#) and [BS 7671 Amendment 3](#)

280 General lighting systems surveys

1. Description: Allow for survey to produce a full Lighting Design
2. Requirements: Assessment of compliance with [BS 7671](#), as amended by [BS 7671 Corrigendum](#) and [BS 7671 Amendment 3](#) ; Assessment of appropriate luminaires for locations
3. Luminaires
 - 3.1. Inspection schedule contents: Lamp configurations and types; Luminaire types

285 Emergency lighting systems surveys

1. Description: Allow for survey to produce a full fire plan design
2. Requirements: Assessment of compliance with [BS EN 1838](#)
3. Emergency luminaires
 - 3.1. Locations: Show on drawings
 - 3.2. Inspection schedule contents: Assessment of compliance of luminaires with [BS EN 60598-2-22](#) ; General comments and recommendations
4. Test facilities: Investigate and report on type and locations
5. Central battery: Assessment of central battery for compliance with [BS EN IEC 62485-1](#)
6. Static inverter: Type and rating

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 structure or structures to be deconstructed/ demolished
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: As drawing 24-004-319 - Demolition Plan
 - 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 materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.4. Proposed programme of work, including sequence and methods of deconstruction or demolition.
 - 2.5. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.6. Arrangements for control of site transport and traffic.
 - 2.7. Special requirements: Site waste management plan development and proposals
3. Format of report: PDF drawings and document

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

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
3. **Existing watercourses:** Divert or construct culvert or drain to ensure continued passage of water, all in accordance with the requirements of the local authority and environmental protection agency.

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 from, pipes, etc. Identify potential sources and assess risk prior to commencement of works on site.
2. **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. **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.

65 Structures to be retained

1. **Extent:** As demolition plan
2. **Parts which are to be kept in place:** Protect. Give notice and notify service authority or owner of damage arising from the execution of the works.
3. **Interface between retained structures and deconstruction or demolition:** Cut away and strip out with care to minimize the amount of making good needed

70 Partly demolished structures

1. **General:** Leave in a stable condition, with adequate temporary support and bracing at each stage to prevent risk of uncontrolled collapse. Make secure outside working hours.
2. **Temporary works:** Prevent overloading due to debris and machinery.
3. **Access:** Prevent access by unauthorized persons.

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.

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

91 Employer's property

1. **Components and materials to remain the property of the employer:** Tagged items
2. **Protection:** Maintain until delivered to a required place of storage

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

C40

Cleaning masonry/ concrete

General/ preparation

110 Scope of work

1. Brickwork up against new construction .

120 Related repair and remedial works

1. Work to be carried out after cleaning work: Pointing to joints in masonry, as section C41

160 Protection

1. Surfaces not designated for cleaning: Prevent damage, including marking and staining.
2. Openings: Prevent ingress of water, cleaning agents, and detritus.
 - 2.1. Vents and grilles: Seek instructions before sealing up.
3. Temporary mechanical fastenings
 - 3.1. In masonry: Locate in joints.
 - 3.2. In other surfaces: Seek instructions.

Products/ equipment

332 Water spray (mounted nozzles)

1. Equipment
 - 1.1. Spray/ Nozzle types: Contractor's choice
 - 1.2. Nozzles: Position and direction adjustable, relative to surfaces and profiles.
 - 1.3. Controls: Contractor's choice

Application

412 Removal of loosely adhered deposits

1. Timing: Before commencement of other cleaning methods.
2. Surfaces: Prevent damage, including abrasion.

452 Abrasives cleaning

1. Surfaces: Minimize abrasion.
 - 1.1. Ingrained deposits: Seek instructions.
2. Equipment settings (including nozzle type and distance from surface): Adjust regularly to achieve optimum cleaning performance for each surface.
3. Detritus: Remove with clean water.

462 Water sprayed cleaning (mounted nozzles)

1. Surfaces: Minimize water run-off. Prevent damage.
2. Adjustment of washing cycle and nozzle positions: Regularly to achieve optimum cleaning performance.

Ω End of Section

D20

Excavating and filling

To be read with preliminaries/ general conditions.

4 Site investigation

1. Report: See Preliminaries section A12

6 Site investigation report

1. To be reviewed.

12 Site clearance

1. Timing: Before topsoil stripping, if any.
2. General: Clear site of rubbish, debris and vegetation. Do not compact topsoil.
3. Treatment: Apply a suitable non-residual herbicide to areas to receive planting

14 Removing small trees, shrubs, hedges and roots

1. Identification: Clearly mark Shrubs to be removed.
2. Small trees, shrubs and hedges
 - 2.1. Roots: Grub up and dispose of without undue disturbance of soil and adjacent areas.

20 Stripping topsoil

1. General: Before beginning general excavation or filling, strip topsoil from areas where there will be regrading, buildings, pavings/ roads and other areas shown on drawings.
2. Depth
 - 2.1. Remove to an average depth of: 150 mm
 - 2.2. Give notice where the depth of topsoil is difficult to determine.
3. Handling: Handle topsoil for reuse or sale in accordance with BS 3882.
4. Around trees: Do not remove topsoil from below the spread of trees to be retained.
5. Site storage: Keep separate from excavated sub-soil

22 Adjacent excavations

1. Requirement: Where an excavation encroaches below a line drawn at an angle from the nearest formation level of another higher excavation, the lower excavation, all work within it and backfilling thereto, must be completed before the higher excavation is made.
2. Angle of line below horizontal: TBC by SE
3. Backfill material: Hardcore filling as clause D30/65

23 Excavations adjacent to existing foundations

1. Prior to commencing excavation
 - 1.1. Excavate trial pits adjacent to existing foundations to determine extent and formation levels.
 - 1.2. Allow for inspection of trial pits.
 - 1.3. Allow time for amendment of details if required.
 - 1.3.1. Time period: Five working days
2. Backfill material to new excavation: As clause D20/24

24 Backfill to excavations lower than foundation formation level

1. Critical level
 - 1.1. Distance between near faces of foundation and lower excavation less than 1 m: 150 mm above foundation formation level
 - 1.2. Otherwise: 150 mm above level at which line defined in clause 22 cuts near face of lower excavation
2. Backfill material
 - 2.1. Below critical level: TBC by SE
 - 2.2. Above critical level: Hardcore filling as clause D20/65

25 Inspecting formations

1. Give Notice: Make advance arrangements for inspection of formations for foundation to the existing building.
 - 1.1. Notice (minimum): Five days
2. Preparation: Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels.
 - 2.1. Loose material: Remove

31 Unrecorded features

1. Give notice: If unrecorded foundations, beds, voids, basements, filling, tanks, pipes, cables, drains, manholes, watercourses, ditches, etc. not shown on the drawings are encountered.

33 New foundations crossing old foundations or walls

1. Break out: Refer to SE for information

40 Excavated topsoil removal

1. General: Remove from site.

50 Hazardous, aggressive or unstable materials

1. Generally: Do not import or use fill materials which would, either in themselves or in combination with other materials or groundwater, give rise to a health hazard, damage to building structures or instability in the filling, including material that is:
 - 1.1. Frozen or containing ice.
 - 1.2. Organic.
 - 1.3. Contaminated or noxious.
 - 1.4. Susceptible to spontaneous combustion.
 - 1.5. Likely to erode or decay and cause voids.
 - 1.6. With excessive moisture content, slurry, mud or from marshes or bogs.
 - 1.7. Clay of liquid limit exceeding 80 and/ or plasticity index exceeding 55.
 - 1.8. Unacceptable, class U2 as defined in the 'Specification for highway works', clause 601.

53 Water

1. Generally: Keep all excavations free from water until:
 - 1.1. Formations are covered.
 - 1.2. Below ground constructions are completed.
 - 1.3. Basement structures and retaining walls are able to resist leakage, water pressure and flotation.

2. **Drainage:** Form surfaces of excavations and fill to provide adequate falls.
3. **Removal of water:** Provide temporary drains, sumps and pumping as necessary. Do not pollute watercourses with silt laden water.

55 Placing fill

1. **Surfaces of excavations and areas to be filled:** Free from loose soil, topsoil, organic material, rubbish and standing water.
2. **Freezing conditions:** Do not use frozen materials or materials containing ice. Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.
3. **Adjacent structures, membranes and buried services**
 - 3.1. Do not overload, destabilise or damage.
 - 3.2. Submit proposals for temporary support necessary to ensure stability during filling.
 - 3.3. Allow 14 days (minimum) before backfilling against in situ concrete structures.
4. **Layers:** Place so that only one type of material occurs in each layer.
5. **Earthmoving equipment:** Vary route to avoid rutting.

60 Backfilling around foundations

1. **Under oversite concrete and pavings:** Hardcore.
2. **Under grassed or soil areas:** Material excavated from the trench, laid and compacted in 300 mm maximum layers.

65 Hardcore filling

1. **Fill:** Granular material, free from excessive dust, well graded, all pieces less than 75 mm in any direction.
2. **Permitted materials in any one layer.**
 - 2.1. **Test requirements**
 - 2.1.1. Minimum 10% fines value tested in a soaked condition to BS 812-111: refer to SE
 - 2.1.2. Impact value SZ tested to BS EN 1097-2: refer to SE
 - 2.2. **Permitted materials in any one layer**
 - 2.2.1. Crushed rock (other than argillaceous rock) or quarry waste with not more binding material than is required to help hold the stone together.
 - 2.2.2. Crushed concrete, crushed brick or tile, free from plaster, timber and metal.
 - 2.2.3. Crushed non-expansive slag.
 - 2.2.4. Gravel or hoggin with not more clay content than is required to bind the material together, and with no large lumps of clay.
 - 2.2.5. Well-burned non-plastic colliery shale.
 - 2.2.6. Natural gravel.
 - 2.3. Natural sand.
3. **Filling:** Spread and level in 150 mm maximum layers. Thoroughly compact each layer.

67 Venting Hardcore layer

1. **Fill:** Clean granular material, well graded, passing a 75 mm BS sieve but retained on a 20 mm BS sieve. In each layer only one of the following:
 - 1.1. Crushed hard rock.
 - 1.2. Crushed concrete, crushed brick or tile, free from plaster, timber and metal.
 - 1.3. Gravel.

2. **Filling:** Spread and level in 150 mm maximum layers. Thoroughly compact each layer, whilst maintaining enough voids to allow efficient venting.

75 Blinding

1. Surfaces to receive sheet overlays or concrete:
2. Blind with
 - 2.1. Concrete where shown on drawings; or
 - 2.2. Sand, fine gravel, or other approved fine material applied to fill interstices. Moisten as necessary before final rolling to provide a flat, closed, smooth surface.
3. Sand for blinding: To BS EN 12620, grade 0/4 or 0/2 (MP).

Ω End of Section

F10

Brick/ block walling

Clauses

5 Facing brickwork Type A

1. Description: BELOW DPC
2. Bricks: To BS EN 771-1.
 - 2.1. Manufacturer: Submit proposals
3. Mortar: As section Z21.
 - 3.1. Standard: BS EN 1996-1-1
 - 3.2. Mix:
4. Bond: English
5. Joints: Bucket handle

5 Clay bricks Type B

1. Description: ABOVE DPC
2. Bricks: To BS EN 771-1.
 - 2.1. Manufacturer: [Michelmersh Brick Holdings PLC](#)
 - 2.1.1. Contact details
 - 2.1.1.1. Address: Freshfield Lane
Danehill
Haywards Heath
West Sussex
RH17 7HH
 - 2.1.1.2. Telephone: [+44 \(0\)844 931 0022](tel:+44(0)8449310022)
 - 2.1.1.3. Web: <https://www.mbhplc.co.uk/>
 - 2.1.1.4. Email: sales@mbhplc.co.uk
 - 2.1.2. Product reference: [Michelmersh Hampshire Stock Light Multi Clay Brick](#)
 - 2.2. Standard: To BS EN 771-1.
 - 2.3. Brick description: Facing brick.
 - 2.4. Appearance: Stock, sand faced, red multi.
 - 2.5. Work size (length x width x height): 215 x 102.5 x 65 mm.
 - 2.6. Tolerances
 - 2.6.1. Mean value: T1.
 - 2.6.2. Range: R1.
 - 2.7. Compressive strength
 - 2.7.1. Mean compressive strength (minimum): 6 N/mm².
 - 2.8. Durability designation: F2.
 - 2.9. Density
 - 2.9.1. Gross dry: 1400 kg/m³.
 - 2.9.2. Net dry: 1600 kg/m³.
 - 2.9.3. Tolerance: D1.
 - 2.10. Water absorption: <18%.
 - 2.11. Configuration: Group 1.
 - 2.12. Thermal conductivity: 0.41 W/m·K (50%), 0.47 W/m·K (90%).

- 2.13. Thermal resistance: 0.25 m² K/W (50%), 0.22 m² K/W (90%).
- 2.14. Water vapour permeability: 5/10.
- 2.15. Bond strength: 0.15 N/mm².
- 2.16. Reaction to fire: Class A1.
- 2.17. Active soluble salts: S2.
- 2.18. Third-party certification: BES 6001; ISO 9001; ISO 14001 and ISO 50001.

18 Concrete facing blockwork

- 1. Description:
- 2. Blocks: To BS EN 771-3.
 - 2.1. Manufacturer:
 - 2.1.1. Product reference:
 - 2.2. Configuration:
 - 2.3. Compressive strength:
 - 2.3.1. Category:
 - 2.4. Freeze/ thaw resistance:
 - 2.5. Recycled content:
 - 2.6. Work sizes (length x width x height):
 - 2.6.1. Tolerance category:
 - 2.7. Finish/ colour:
 - 2.8. Special shapes:
 - 2.9. Additional requirements:
- 3. Mortar: As section Z21.
 - 3.1. Standard:
 - 3.2. Mix:
- 4. Bond:
- 5. Joints:
- 6. Features:

37 Autoclaved aerated concrete (AAC) common blockwork

- 1. Description:
- 2. Blocks: To BS EN 771-4.
 - 2.1. Manufacturer:
 - 2.1.1. Product reference:
 - 2.2. Configuration:
 - 2.3. Mean compressive strength (minimum):
 - 2.3.1. Category:
 - 2.4. Thermal conductivity (maximum):
 - 2.5. Recycled content:
 - 2.6. Work sizes (length x width x height):
 - 2.6.1. Tolerance category: GPLM.
 - 2.7. Special shapes:
 - 2.8. Additional requirements:
- 3. Mortar: As section Z21.
 - 3.1. Standard:

3.2. Mix:

4. Bond:

51 Basic workmanship

1. Bond where not specified: Half lap stretcher.
2. Mortar joints: Fill all vertical joints. Lay bricks, solid and cellular blocks on a full bed.
3. Clay block joints
 - 3.1. Thin layer mortar: Lay blocks on a full bed.
 - 3.2. Interlocking perpend: Butted.
4. Locations for equal levelling of cavity wall leaves
 - 4.1. Every course containing vertical twist type ties or other rigid ties.
 - 4.2. Every third tie course for double triangle/ butterfly ties.
 - 4.3. Courses in which lintels are to be bedded.
5. Lift height (maximum) for walling using cement gauged or hydraulic lime mortar: 1.2 m above any other part of work at any time.
6. Daily lift height (maximum) for walling using cement gauged or hydraulic lime mortar: 1.5 m for any one leaf.

55 Facework

1. Commencement of facework: Not less than 150 mm below finished level of adjoining ground or external works level.
2. Brick/ block selection: Do not use units with damaged faces or arrises.
3. Cut masonry units: Where cut faces or edges are exposed cut with table masonry saw.
4. Coursing brickwork and concrete blockwork: Evenly spaced using gauge rods. To produce satisfactory junctions and joints with built-in elements and components.

60 Alterations/ Extensions

1. Coursing: Line up with existing work.
2. Block bonding new walls to existing: Unless agreed otherwise cut pocket requirements as follows:
 - 2.1. Width: Full thickness of new wall.
 - 2.2. Depth (minimum): 100 mm.
 - 2.3. Vertical spacing: As follows:
 - 2.4. Brick to brick: 4 courses high at 8 course centres.
 - 2.5. Block to block: Every other course.
 - 2.6. Pocket joints: Fully filled with mortar.
3. New and existing facework in the same plane: Bonded together at every course to achieve continuity of bond and coursing.
4. Support of existing work: Fully consolidate joint above inserted lintel or masonry with semidry mortar to support existing structure.

66 Fire stopping

1. Avoidance of fire and smoke penetration: Fit tightly between cavity barriers and masonry. Leave no gaps.

90 Cracked bricks in existing facework

1. Replacement: Prior to repointing adjacent cracked joints, cut out and replace with matching sound bricks to approval.

2. Jointing mortar: As section Z21.
 - 2.1. Standard:
 - 2.2. Mix:

91 Cracked joints in existing facework which is not to be repointed

1. Crack width determining need for joint remedial work: 1.0 mm
2. Preparation: Cut out joints to form a rectangular recess of 15-20 mm depth. Clean and dampen joints sufficiently to control suction.
3. Joint profile: To match existing.
4. Repointing mortar: As section Z21.
 - 4.1. Standard:
 - 4.2. Mix:

95 Repointing

1. Preparation: Cut out joints to form a rectangular recess of 15-20 mm depth. Clean and dampen joints sufficiently to control suction.
2. Joint profile: Bucket handle
3. Mortar: As section Z21.
 - 3.1. Standard:
 - 3.2. Mix:

Ω End of Section

F30

Accessories/ sundry items for brick/ block/ stone walling

To be read with preliminaries/ general conditions.

5 Cavities

1. Concrete fill to base of cavity:
2. Concrete generally: To [BS EN 206](#) and [BS 8500-2](#).
3. Concrete type: Designated GEN1
 - 3.1. Workability: High.
4. Extent: Maintain 75 mm between top of fill and external ground level and a minimum of 225 mm between top of fill and ground-level dpc.
5. Placement: Compact to eliminate voids.
6. Cleanliness: Keep cavity faces, ties and dpcs free from mortar and debris.

6 Cleanliness

1. Cavity base and faces, ties, insulation and exposed dpcs: Free from mortar and debris.

8 Perpend joint plastics weepholes

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Contractor's choice
2. Locations: above cavity tray, dpc, openings
3. Provision: min 1m c/c or min 450mm c/c above openings

12 Partial fill cavity insulation

1. Insulation: Rock wool batts to [BS EN 13162](#)
 - 1.1. Product certification: British Board of Agrément (BBA) Certificate number 22/6252
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Face size: 900 x 450 mm
4. Thickness (nominal): 100 mm
5. Thermal conductivity: 0.032 W/(m•K)
6. Reaction to fire class: A1
7. Additional requirements: None
8. Placement: Secure against face of inner leaf.
9. Residual cavity: Clear and unobstructed.
10. Joints between boards, at closures and penetrations: No gaps and free from mortar and debris.
11. Environmental performance requirements:
 - 11.1. Environmental rating:
 - 11.2. Recycled content: 50% (minimum) to [BS EN ISO 14021](#)
 - 11.3. Volatile organic compounds (VOC) emissions level (maximum): to be confirmed
12. Verification:
 - 12.1. Submittals: Production information supplied to client
 - 12.2. Timing: before completion of detailed design

15 Airbricks in external walling

1. Standard: To [BS 493](#), Class 1.
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals

18 Cavity closers

1. Manufacturer: Submit proposals
 - 1.1. Product reference: Submit proposals
2. Accessories: To include integral insulation
3. Verification:
 - 3.1. Submittals: Production information supplied to client
 - 3.2. Timing: before completion of detailed design

25 Cavity wall ties used with partial fill insulation

1. Description: For external walls
2. Standard: To [BS EN 845-1](#).
 - 2.1. Type: 2 (Masonry general purpose)
3. Manufacturer: Submit proposals
 - 3.1. Product reference: Submit proposals
4. Verification:
 - 4.1. Submittals: Production information supplied to client
 - 4.2. Timing: before completion of detailed design

33 Fixing ties in masonry cavity walls with partial fill cavity insulation

1. Embedment in mortar beds (minimum): 50 mm.
2. Placement: Sloping slightly downwards towards outer leaf without bending. Drip centred in the cavity and pointing downwards.
3. Spacing: Staggered in alternate courses.
 - 3.1. Horizontal centres: 900 mm
 - 3.2. Vertical centres: 450 mm

39 Wall starters/ connectors

1. Manufacturer: Submit proposals
 - 1.1. Product reference: Submit proposals
2. Standard: To [BS EN 845-1](#)
3. Verification:
 - 3.1. Submittals: production formation supplied to client
 - 3.2. Timing: before completion of detail design

46 Damp-proof courses – plastics

1. Standard: To [BS EN 14909](#)
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice

52 Site-formed flexible sheet cavity trays

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

54 Gas-resistant dpcs/ cavity trays

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

56 Preformed cavity trays

1. Description: abutment with proposed flat roof
2. Manufacturer: Contractor's choice
 - 2.1. Product references and locations: Contractor's choice

62 Site-formed dpc/ cavity tray junctions/ stop ends

1. Three dimensional changes in shape: Form to provide a free draining and watertight installation.
2. Alternative use of preformed cloaks/ stop ends: Submit proposals.

66 Installation of horizontal dpcs

1. Placement: In continuous lengths on full even bed of fresh mortar, with 100 mm laps at joints and full laps at angles.
2. Width: At least full width of masonry leaf. Edges of dpc not covered with mortar or projecting into cavity.
3. Overlying construction: Immediately cover with full even bed of mortar to receive next masonry course.
4. Overall finished joint thickness: As close to normal as practicable.
5. Ground-level dpcs joint with damp-proof membrane: Continuous and effectively sealed.
6. Low-level dpcs in external walls: Install not less than 150 mm above adjoining finished ground level.
7. Sill dpcs form and placement: In one piece and turned up at the back when the sill is in contact with inner leaf.
8. Dpcs crossing cavity: Provide support to prevent sagging.

72 Installation of gas-resistant dpcs/ cavity trays

1. Joint treatment: Use continuous length wherever possible, otherwise lap at least 150 mm and seal to form gas and watertight installation.
2. Joint with damp-proof membrane: Overlap dpc/ cavity tray not less than 150 mm.

74 Installation of vertical dpcs

1. Form: In one piece wherever possible.
 - 1.1. Joints: Upper part overlapping lower not less than 100 mm.
2. Dpcs to jambs of openings: Fully lap behind cavity tray/ lintel at head and over horizontal dpc at sill. Project not less than 25 mm into cavity and maintain full contact with frames.
3. Fixing of jamb dpcs to back of built-in timber frames: Secure using galvanized clout nails or staples.

75 Installation of site-formed cavity trays

1. Requirements to prevent downward ingress of water
 - 1.1. Profiles: To match those shown on drawings. Firmly secured.

- 1.2. **Joint treatment:** Use continuous length wherever possible, otherwise lap at least 100 mm and seal to produce a free draining and watertight installation.
- 1.3. **Horizontal cavity trays:** Support using cavity closer.
- 1.4. **Sloping cavity trays:** Prevent sagging.
- 1.5. **Cleanliness:** Free from debris and mortar droppings.

76 Movement joints with sealant

1. **Manufacturer:** Contractors choice
 - 1.1. **Product reference:** Contractors choice
2. **Joint preparation and sealant application:** As section Z22.
3. **Filler:** Closed cell polyethylene foam
 - 3.1. **Placement:** Build in as work proceeds ensuring no projections into cavities and to correct depth to receive sealant system.
4. **Sealant:**
 - 4.1. **Colour:** to match mortar

85 Prefabricated steel lintels

1. **Standard:** To [BS EN 845-2](#).
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Contractor's choice
3. **Types:** As schedule From SE
4. **Sizes:** As schedule From SE
5. **Placement:** Bed on mortar used for adjacent work.
 - 5.1. **Bearing length (minimum):** 150 mm
6. **Verification:** confirmed by SE

Ω End of Section

G20

Carpentry/ timber-framing/ first fixing

Clauses

2 Timber procurement

1. Timber (including timber for wood-based products): Obtained from well-managed forests/ 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

5 Structural softwood

1. Description: to be specified by SE

12 Wood trim

1. Description: Fascia and Eaves
2. Species: Contractor's choice
3. Standard: To BS 1186-3.

15 Plywood

1. Description: For patressing
2. Standard: To an approved national standard.
3. Service class to BS EN 1995-1-1:
4. Use class to BS EN 335: see below
 - 4.1. Class 1 for use in dry conditions
 - 4.2. Class 2 for use in humid conditions eg changing rooms
 - 4.3. Class 3 for use in exterior conditions eg roofing
5. Nominal thickness: 18 mm
6. Appearance class to BS EN 635: III
7. Bonding quality to BS EN 314-2: appropriate for use Class
8. Finish: Sanded Unsanded

30 Selection and use of timber

1. Timber members damaged, crushed or split beyond the limits permitted by their grading: Do not use.

32 Notches, holes and joints in timber

1. Notches and holes: Position in relation to knots or other defects so that the strength of members will not be reduced.

2. Scarf joints, finger joints and splice plates: Do not use without approval.

35 Processing treated timber

1. Cutting and machining: Carry out as much as possible before treatment.
2. Extensively processed timber: Retreat timber sawn lengthways, thickened, planed, ploughed, etc.
3. Surfaces exposed by minor cutting/ drilling: Treat with two flood coats of a solution recommended by main treatment solution manufacturer.

40 Moisture content

1. Moisture content of wood and wood-based products at time of installation: Not more than:
 - 1.1. Covered in generally unheated spaces: 24%.
 - 1.2. Covered in generally heated spaces: 20%.
 - 1.3. Internal in continuously heated spaces: 20%.

41 Bolt/ screw assemblies

1. Note: to SE spec

43 Bolted joints

1. Bolt spacings (minimum): To BS EN 1995-1-1, section 8.5.
2. Holes for bolts: Located accurately and drilled to diameters as close as practical to the nominal bolt diameter and not more than 2 mm larger.
3. Washers: Placed under bolt heads and nuts that would otherwise bear directly on timber. Use spring washers in locations which will be hidden or inaccessible.
4. Bolt tightening: So that washers just bite the surface of the timber. Ensure that at least one complete thread protrudes from the nut.
 - 4.1. Checking: At agreed regular intervals. Tighten as necessary.

45 Framing anchors

1. New Item: To SE Spec

50 Additional supports

1. Provision: Position and fix additional studs, noggings and/ or battens to support edges of sheet materials, and wall/ floor/ ceiling-mounted appliances, fixtures, etc. shown on drawings.
2. Material properties: Timber to be of adequate size and have the same treatment as adjacent timber supports.

55 Joists generally

1. Centres: Equal, and not exceeding designed spacing.
2. Bowed joists: Installed with positive camber.
3. End joists: Positioned about 50 mm from masonry walls.

60 Joists on hangers

1. Hangers: Bedded directly on and hard against supporting construction. Do not use packs or bed on mortar.
2. Joists: Cut to leave not more than 6 mm gap at each end. Rebated to lie flush with underside of hangers.
3. Fixing to hangers: A nail in every hole.

65 Joist hangers

1. Note: To SE Spec

70 Trimming openings

1. Trimmers and trimming joists: Not less than 25 mm wider than general joists.

85 Vertical restraint straps

1. Note: To SE Spec

90 Lateral restraint straps

1. Manufacturer:
 - 1.1. Product reference:
2. Material/ finish:
3. Size: Not less than 30 x 5 mm cross section, 150 mm cranked end and mm long.
4. Fixing: To top of joists/ rafters/ ties at not more than m centres and as shown on drawings.
 - 4.1. Ensure that cranked end is in tight contact with cavity face of wall inner leaf and is not pointing upwards.
5. Straps spanning joists/ rafter/ ties running parallel to wall: Fix noggings and packs tightly beneath straps.
 - 5.1. Size of noggings and packs: Not less than three quarters of joist/ rafters/ tie depth and not less than 38 mm thick.
 - 5.2. Notching: Notch joists so that straps fit flush with surface. Do not notch rafters/ ties.
6. Fasteners: Not less than four 50 mm x 8 gauge sherardized countersunk screws per strap, evenly spread.

95 Strutting to floor joists

1. Type: One of the following:
 - 1.1. Herringbone strutting: At least 38 x 38 mm softwood.
 - 1.2. Solid strutting: At least 38 mm thick softwood and at least three quarters of joist depth.
 - 1.3. Proprietary metal strutting:
2. Fixing: Between joists as follows:
 - 2.1. Joist spans of 2.5 to 4.5 m: One row at centre span.
 - 2.2. Joist spans over 4.5 m: Two rows equally spaced.
 - 2.3. Not projecting beyond top and bottom edges of joists.
3. Outer joists: Blocked solidly to perimeter walls.

97 Eaves soffit ventilators

1. Manufacturer:
 - 1.1. Product reference:
2. Type:
3. Colour:
4. Airway: The equivalent of a continuous opening of not less than mm for full length of eaves.

98 Eaves soffit ventilation

1. Soffit boards: Fixed to leave a continuous ventilation opening not less than mm wide for full length of eaves.
2. Insect mesh: 3-4 mm mesh screen fixed across the opening to prevent large insect entry.

99 Fascias/ barges/ soffits

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Material:
4. Finish:
5. Colour:
6. Nominal depth:
7. Edge profile:
8. Accessories/ other requirements:
9. Support:
 - 9.1. Provide additional support at joints.
10. Fixings:
11. Installer: A contractor approved by the system manufacturer.

Ω End of Section

J42

Single-layer polymeric sheet roof coverings

To be read with preliminaries/ general conditions.

10 Warm deck roof covering

1. Description: New Flat Roof
2. Substrate: Plywood deck
 - 2.1. Preparation: Plywood overlay with taped joints
3. Roof covering system
 - 3.1. Manufacturer: Contractor's choice
 - 3.1.1. Product reference: Submit proposals
4. Insulation: Phenolic foam boards, as clause 27
5. Waterproof membrane: As clause 28
6. Attachment: Adhesive

15 Roofing generally

1. Surfaces to be covered: Secure, clean, dry, smooth, free from frost, contaminants, voids and protrusions.
2. Preliminary work. Complete including:: Formation of upstands, kerbs, box gutters, sumps, grooves, chases and expansion joints.
3. Moisture content and stability of substrate: Must not impair integrity of roof.
4. Adverse weather: Do not lay membrane at temperatures below 5°C in high winds, wet or damp conditions, unless effective temporary cover is provided over working area.
5. Unfinished areas of roof: Keep dry and protect edges of laid membrane from wind action.
6. Completed coverings: Firmly attached, fully sealed, smooth, weatherproof and free-draining.

27 Thermal insulation

1. Manufacturer: Submit proposals
 - 1.1. Product reference: Submit proposals
2. Standard: Phenolic foam to [BS EN 13166](#)
 - 2.1. Reaction to fire: Manufacturer's standard
 - 2.2. Thermal conductivity: 0.024 W/mK
 - 2.3. Thickness: 150 mm min
 - 2.4. Compressive strength (minimum): Manufacturer's standard
 - 2.5. Other characteristics: None
3. Verification:
 - 3.1. Submittals: submit Production information to client
 - 3.2. Timing: before completion of detailed design

28 Waterproof membrane

1. Manufacturer: Submit proposals
 - 1.1. Product reference: Submit proposals
2. Type: Polyvinyl chloride (PVC)
 - 2.1. Note: Suitable for use with Green Roof
3. Thickness: ??? mm, excluding fleece backing

4. Colour: Grey
5. Guarantee: 25 years
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing: Before completion of detailed design

29 Timber trims, etc.

1. Supplier: Contractor's choice
 - 1.1. Product reference: Contractor's choice
2. Quality: Planed. Free from wane, pitch pockets, decay and insect attack, except ambrosia beetle damage.
3. Moisture content at time of covering (maximum): 22%.
4. Preservative treatment: As membrane manufacturer's/ supplier's recommendations
5. Fasteners:
6. Fixing centres (maximum): 600 mm
7. Verification:
 - 7.1. Submittals: product information submitted to client
 - 7.2. Timing: before completion of detailed design

35 Laying air and vapour control layer

1. Laying: Loose-laid, flat and smooth
2. Side and head laps: to manufactures spec
3. Upstands, kerbs and other penetrations: Enclose edges of insulation. Fully seal at abutment by bonding or taping.

40 Laying warm deck roof insulation

1. Setting out
 - 1.1. Long edges: Fully supported and running at right angles to Side laps in single-ply membrane.
 - 1.2. End edges: Adequately supported.
 - 1.3. Joints: Butted together.
 - 1.4. End joints: Staggered.
2. Attachment: per manufactures spec

50 Adhesive bonding of waterproof membrane

1. Setting out: Perpendicular to the deck direction
2. Attachment: Fully adhered on a continuous even coating of adhesive
3. Membrane: Do not wrinkle or stretch.
4. Surface condition at completion: Fully sealed, smooth, weatherproof and free-draining.

60 Perimeter details

1. General: Secure membrane at roof edge conditions, changes of plane, curb flashings, upstands to roof lights, etc. with mechanical fasteners.
2. Upstands, edge trims, drips, kerbs, etc: Secure preformed metal sections to roof structure with mechanical fasteners
3. Roof membrane: Terminate and secure in accordance with manufacturer's/ supplier's recommendations.

65 Roof penetrations

1. Roof membrane: Cut around penetrations and secure to deck
2. Flanged sleeve
 - 2.1. Type: Preformed flanged sleeve
 - 2.2. Installation: Dress over and around penetration.
 - 2.3. Seating: Flush to roof

Ω End of Section

K10

Gypsum board dry linings/ partitions/ ceilings

To be read with preliminaries/ general conditions.

25 Ceiling lining on timber

1. Description: Ceilings to dry area
2. Substrate: Rafters at existing centresto be surveys or Joists at 600 mm centres
3. Metal resilient (acoustic) bars: At 450 mm centres
4. Fire performance
 - 4.1. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better
 - 4.2. Fire resistance of complete ceiling assembly: To BS EN 13501-2, REI 30 or better
5. Linings: 12.5 mm plasterboard
 - 5.1. Fixing: Contractor's choice
6. Finishing: Seamless jointing
 - 6.1. Primer/ Sealer: As recommended by board manufacturer for vapour control
7. Accessories: Metal beads/ stops recommended by the board manufacturer
8. Other requirements: Fire-stopping around services as section P12

30 Gypsum board wall lining systems Type A

1. Manufacturer: [British Gypsum](#)
 - 1.1. Contact details
 - 1.1.1. Address: East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 1.1.2. Telephone: [+44 \(0\)844 800 1991](tel:+4418448001991)
 - 1.1.3. Web: <https://www.british-gypsum.com>
 - 1.1.4. Email: bg.technical@saint-gobain.com
 - 1.2. Product reference: [GypLyner Independent - B216005 \(A\) \(EN\)](#)
2. Support: Base channel: Gypframe 50 FEC 50 Folded Edge Standard Floor & Ceiling Channel. Head channel: Gypframe 50 FEC 50 Folded Edge Standard Floor & Ceiling Channel. Stud: Gypframe 48 I 50 'I' Stud. Abutments and openings: Gypframe 48 S 50 'C' Stud.
3. Insulation: Insulation, Layer 1: 50mm Isover Steel Frame Infill Batt.
4. Linings: Board side 1, Layer 1: Gyproc SoundBloc 12.5mm. Board side 1, Layer 2: Gyproc SoundBloc 12.5mm.
5. Fasteners: Screws side 1, Layer 1: British Gypsum Drywall Screws 25mm. Screws side 1, Layer 2: British Gypsum Drywall Screws 35mm.
6. Joint treatment: Fixing strap: Gypframe GFS1 Fixing Strap.
7. Finish: To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
8. System accessories: Sealant: Gyproc Sealant. Thermal sealant: Gyproc Sealant.
9. Execution: Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/wall-linings/GypLyner-Independent/B216005-A-EN#details>
10. Fire resistance: BS EN 1364-1, 30 / 30 Integrity / Insulation

11. Strength grade: BS 5234-2, Severe duty (SD)
12. Partition height: 2700mm
13. Background: Background: Steel Clad External Wall

45 Gypsum board wall lining systems Type A

1. Manufacturer: [British Gypsum](#)
 - 1.1. Contact details
 - 1.1.1. Address: East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 1.1.2. Telephone: +44 (0)844 800 1991
 - 1.1.3. Web: <https://www.british-gypsum.com>
 - 1.1.4. Email: bg.technical@saint-gobain.com
 - 1.2. Product reference: [DriLyner Dab - BASIC \(D\) \(EN\)](#)
2. Support: Fixing method: Gyproc DriWall Adhesive.
3. Linings: Board side 1, Layer 1: Gyproc WallBoard Ten 12.5mm.
4. Finish: The system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
5. System accessories: Parge coat: Gyproc SoundCoat Plus. Thermal sealant: Gyproc DriWall Adhesive.
6. Execution: Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/wall-linings/DriLyner-Dab/BASIC-D-EN#details>
7. Strength grade: Not Stated
8. Background: Background: Masonry

125 Gypsum board partition systems Type A

1. Manufacturer: [British Gypsum](#)
 - 1.1. Contact details
 - 1.1.1. Address: East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 1.1.2. Telephone: +44 (0)844 800 1991
 - 1.1.3. Web: <https://www.british-gypsum.com>
 - 1.1.4. Email: bg.technical@saint-gobain.com
 - 1.2. Product reference: [GypWall Single Frame - A206198 \(EN\)](#)
2. Framing: Base channel: Gypframe 72 FEC 50 Folded Edge Standard Floor & Ceiling Channel. Head channel: Gypframe 72 FEC 50 Folded Edge Standard Floor & Ceiling Channel. Stud: Gypframe 70 S 50 'C' Stud. Abutments and openings: Gypframe 70 S 50 'C' Stud.
3. Insulation: Insulation, Layer 1: 25mm Isover Acoustic Partition Roll (APR 1200).
4. Linings: Board side 1, Layer 1: Gyproc SoundBloc 12.5mm. Board side 1, Layer 2: Gyproc SoundBloc 12.5mm. Board side 2, Layer 1: Gyproc SoundBloc 12.5mm. Board side 2, Layer 2: Gyproc SoundBloc 12.5mm.

5. **Fasteners:** Screws side 1, Layer 1: British Gypsum Drywall Screws 25mm. Screws side 1, Layer 2: British Gypsum Drywall Screws 35mm. Screws side 2, Layer 1: British Gypsum Drywall Screws 25mm. Screws side 2, Layer 2: British Gypsum Drywall Screws 35mm.
6. **Joint treatment:** Fixing strap: Gypframe GFS1 Fixing Strap.
7. **Finish:** To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
8. **System accessories:** Sealant: Gyproc Sealant.
9. **Execution:** Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/internal-partitions-walls/GypWall-Single-Frame/A206198-EN#details>
10. **Fire resistance:** BS EN 1364-1, 60 / 60 Integrity / Insulation
11. **Sound insulation:** BS 2750-3, 52 Rw dB
12. **Strength grade:** BS 5234-2, Severe duty (SD)
13. **Partition height:** 4000mm
14. **Partition thickness:** 122mm
15. **Other requirements:** Pattress as K10/125b

125 Partition panels Type B

1. **Manufacturer:** [Drywall Pro-cut Ltd](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** No 7 Villiers Court
Meriden Business Park
Copse Drive
Coventry
West Midlands
United Kingdom
CV5 9RN
 - 1.1.2. **Telephone:** [01827 213201](tel:01827213201)
 - 1.1.3. **Web:** <https://www.drywallpro-cut.co.uk/>
 - 1.1.4. **Email:** enquiries@drywallpro-cut.co.uk
 - 1.2. **Product reference:** [Pro-Cut Pattresses \(Sheathing Plywood\)](#)
2. **Third-party certification:** FSC certified.
3. **Standard:** To BS EN 12369-1:2001 and BS EN 300:2006.
4. **Panel partition type:** Pattress.
5. **Solid panels**
 - 5.1. **Type:** Sheathing plywood.
6. **Thickness:** 18 mm.
7. **Panel dimensions:** Measure on site
8. **Density:** Moisture dependent.
9. **Reaction to fire:**
10. **Thermal conductivity:** 0.063—0.072W/mK (estimate).

Installation

60 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.

61 Metal framing for partitions/ wall linings

1. **Setting out:** Accurately aligned and plumb.
 - 1.1. **Frame/ Stud positions:** Equal centres to suit specified linings, maintaining sequence across openings.
 - 1.2. **Additional studs:** To support vertical edges of boards.
2. **Fixing centres at perimeters (maximum):** 600 mm.
3. **Openings:** Form accurately.
 - 3.1. **Doorsets:** Use sleeved or boxed metal studs and/ or suitable timber framing to achieve strength grade requirements for framing assembly and adequately support weight of door.
 - 3.2. **Services penetrations:** Allow for associated fire-stopping.

65 Dry lining generally

1. **General:** Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.
2. **Standard:**
3. Gypsum plasterboard to BS EN 520.
4. Gypsum fibre board to BS EN 15283-2.
5. **Evidence of compliance:** Submit Declaration of Performance (DoP).
6. **Cutting gypsum boards:** Neatly and accurately without damaging core or tearing paper facing.
7. **Cut edges:** Minimize and position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.
8. **Two layer boarding:** Stagger joints between layers.
9. **Finishing:** Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

67 Skim coat plaster finish

1. **Plaster type:** As recommended by board manufacturer
 - 1.1. **Thickness:** 2-3 mm.
2. **Joints:** Fill and tape except where coincident with metal beads.
3. **Finish:** Tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.

69 Installing beads/ stops

1. **Cutting:** Neatly using mitres at return angles.
2. **Fixing:** Securely using longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with substrate.
3. **Finishing:** After joint compounds/ plasters have been applied, remove surplus material while still wet from surfaces of beads exposed to view.

70 Additional supports

1. **Framing:** Accurately position and securely fix to give full support to:
 - 1.1. Partition heads running parallel with, but offset from main structural supports.
 - 1.2. Fixtures, fittings and service outlets. Mark framing positions clearly and accurately on linings.
 - 1.3. Board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.

85 mineral wool insulation

1. **Fitting insulation:** Closely butted joints and no gaps. Use fasteners to prevent slumping or displacement.
2. **Services**
 - 2.1. **Electrical cables overlaid by insulation:** Size accordingly.
 - 2.2. **Ceilings:** Cut insulation around electrical fittings, etc.

86 Cavity fire barriers within partitions/ Wall linings

1. **Metal framed systems**
 - 1.1. **Material:** Wire-reinforced mineral wool 50 mm (minimum) thick
 - 1.2. **Installation:** Form accurately and fix securely with no gaps to provide a complete barrier to smoke and flame.
2. **Adhesive fixed wall lining systems**
 - 2.1. **Material:** Adhesive compound.
 - 2.2. **Installation:** Form in a continuous line with no gaps to provide a complete barrier to smoke and flame.

87 Sealing gaps and air paths

1. **Sealing:** Apply sealant to perimeter abutments and around openings as a continuous bead with no gaps.
2. **Application:** To clean, dry and dust free surfaces as a continuous bead with no gaps.
 - 2.1. **Gaps greater than 6mm between floor and underside of gypsum board:** After sealing, fill with joint compound.

88 Fire-stopping at perimeters of dry lining systems

1. **Material:** Tightly packed mineral wool or intumescent mastic/ sealant.
2. **Application:** To perimeter abutments to provide a complete barrier to smoke and flame.

89 Cavity fire barriers within suspended ceilings

1. **Type:** As recommended by board manufacturer to meet specified performance
2. **Fire resistance:** To BS EN 13501-2, REI 30
3. **Ceiling void subdivision:** Fix barriers not more than 20 m apart in any direction.
4. **Fixing at perimeters and joints:** Secure, stable and continuous with no gaps, to provide a complete barrier to smoke and flame.
5. **Service penetrations:** Cut and pack to maintain barrier integrity. Sleeve flexible materials. Adequately support services passing through barrier.
6. **Ceiling systems for fire protection:** Do not impair fire-resisting performance of ceiling system.

90 Seamless jointing

1. **Cut edges of boards:** Lightly sand to remove paper burrs.
2. **Filling and taping:** Fill joints, gaps and internal angles with jointing compound and cover with continuous lengths of tape, fully bedded.
3. **Protection of edges/ corners:** Reinforce external angles, stop ends, etc. with specified edge/ angle bead.
4. **Finishing:** Feather out jointing compound to give a flush, smooth, seamless surface.
5. **Nail/ screw depressions and minor indents:** Fill with jointing compound to give a flush surface.
6. **Minor imperfections:** Remove by light sanding.

91 Vertical joints

1. Joints: Centre on studs.
 - 1.1. Partitions: Stagger joints on opposite sides of studs.
 - 1.2. Two layer boarding: Stagger joints between layers.

92 Horizontal joints

1. Surfaces exposed to view: Horizontal joints not permitted. Seek instructions where height of partition/ lining exceeds maximum available length of board.
2. Two layer boarding: Stagger joints between layers by at least 600 mm.
3. Edges of boards: Support using additional framing.
 - 3.1. Two layer boarding: Support edges of outer layer.

93 Fixing gypsum board to metal framing/ Furrings

1. Partitions/ Wall linings: Fix securely and firmly at the following centres (maximum):
 - 1.1. Single layer boarding: To all framing at 300 mm centres. Reduce to 200 mm centres at external angles.
 - 1.2. Multi-layer boarding: Face layer at 300 mm centres, and previous layers around perimeters at 300 mm centres.
2. Ceilings: 230 mm. Reduce to 150 mm at board ends and at lining perimeters.
3. Position of screws from edges of boards (minimum): 10 mm.
 - 3.1. Screw heads: Set in a depression. Do not break paper or gypsum core.

94 Fixing gypsum board to timber

1. Fixing to timber: Securely at the following centres (maximum):
 - 1.1. Nails: 150 mm.
 - 1.2. Screws to partitions/ wall linings: 300 mm. Reduce to 200 mm at external angles.
 - 1.3. Screws to ceilings: 230 mm.
2. Position of nails/ screws from edges of boards (minimum)
 - 2.1. Bound edges: 10 mm.
 - 2.2. Cut/ unbound edges: 13 mm.
3. Position of nails/ screws from edges of timber supports (minimum): 6 mm.

95 Fixing gypsum board with adhesive dabs

1. Setting out boards: Accurately aligned and plumb.
2. Fixing to substrates: Securely using adhesive dabs.
3. Adhesive dab spacings for each board
 - 3.1. Horizontally: One row along top edge and one continuous dab along bottom edge.
 - 3.2. Vertically: One row along each edge and thereafter at intermediate spacings to suit size of board:
 - 3.2.1. 9.5 mm thick board, 1200 mm wide to have dab centres at 400 mm (min).
 - 3.2.2. 9.5 or 12.5 mm thick board, 900 mm wide to have dab centres at 450 mm (min).
 - 3.2.3. 12.5 mm thick board, 1200 mm wide to have dab centres at 600 mm (min).
4. Adhesive dab dimensions (width x length): At least 50-75 mm x 250 mm.
 - 4.1. Position of dabs from edges/ ends of boards (minimum): 25 mm.

Finishing

97 Level of dry lining across joints

1. Sudden irregularities: Not permitted.
2. Joint deviations: Measure from faces of adjacent boards using methods and straightedges (450 mm long with feet/ pads) to BS 8212, clause 3.3.5.
 - 2.1. Tapered edge joints
 - 2.1.1. Permissible deviation (maximum) across joints when measured with feet resting on boards: 3 mm.
 - 2.2. External angles
 - 2.2.1. Permissible deviation (maximum) for both faces: 4 mm.
 - 2.3. Internal angles
 - 2.3.1. Permissible deviation (maximum) for both faces: 5 mm.

Ω End of Section

K11

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

To be read with preliminaries/ general conditions.

10 Wood-based sheets generally

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

15 Plywood

1. Description: For patressing
2. Standard: To an approved national standard.
3. Service class to BS EN 1995-1-1:
4. Use class to BS EN 335: see below
 - 4.1. Class 1 for use in dry conditions
 - 4.2. Class 2 for use in humid conditions eg changing rooms
 - 4.3. Class 3 for use in exterior conditions eg roofing
5. Nominal thickness: 18 mm
6. Appearance class to BS EN 635: III
7. Bonding quality to BS EN 314-2: appropriate for use Class
8. Finish: Sanded Unsanded

37 Plywood flooring

1. Description: To Mezzanine
2. Substrate: Joists to SE design
3. Flooring: Plywood manufactured to the relevant standards and quality control procedures specified in BS EN 636, and so marked.
 - 3.1. Fire performance
 - 3.1.1. Reaction to fire: TBC
 - 3.1.2. Resistance to fire: TBC
 - 3.2. Edges: Tongued-and-grooved to all edges
4. Setting out: Long edges running across joists. End joints central over joists and staggered.
5. Fixing to joists
 - 5.1. Fasteners: 50 mm x 8 gauge wood screws into pilot holes
 - 5.2. Fixing centres: Around floor perimeter and along edges of each board: TBC mm (maximum)
6. Expansion provision
 - 6.1. Clear expansion gap around perimeter of floor area and upstands:
 - 6.2. Intermediate expansion/ movement joints: As recommended by flooring manufacturer.

40 Plywood roof decking

1. Substrate: Roof Joist to SE design
2. Decking: Plywood manufactured to the relevant standards and quality control procedures specified in BS EN 636, and so marked.

- 2.1. Use class: External
- 2.2. Grade: III
- 2.3. Nominal thickness/ number of plies: 18mm
- 2.4. Fire performance
 - 2.4.1. Reaction to fire: TBC
 - 2.4.2. Resistance to fire: TBC
 - 2.4.3. Spread of fire: TBC
- 2.5. Edges: Tongued-and-grooved to all edges
3. Setting out: Long edges running across supports. End joints central over joists and staggered.
4. Fixing
 - 4.1. Fasteners: 50 mm x 8 gauge wood screws into pilot holes
 - 4.2. Fixing centres:
 - 4.3. Along each support: 25 mm from each long edge and at maximum centres between.
 - 4.4. Around perimeter of roof area: Maximum centres.
5. Expansion provision
 - 5.1. Clear expansion gap around perimeter of roof area and upstands: 10 mm.
 - 5.2. Intermediate expansion/ movement joints: As recommended by decking manufacturer.

61 Plywood

1. Description:
2. Substrate:
 - 2.1. Additional supports:
3. Plywood: Manufactured to an approved national standard.
 - 3.1. Manufacturer/ Supplier:
 - 3.1.1. Product reference:
 - 3.2. Face veneer species:
 - 3.3. Face grain direction:
 - 3.4. Bonding quality to BS EN 314-2:
 - 3.5. Appearance class to BS EN 635: Class
 - 3.6. Finish:
 - 3.7. Thickness:
 - 3.8. Fire performance
 - 3.8.1. Reaction to fire:
 - 3.8.2. Resistance to fire:
 - 3.9. Edges:
 - 3.10. Treatment:
 - 3.11. Other requirements:
4. Setting out: Long edges running
- 4.1. Gap between adjacent boards:
5. Fixing to supports
 - 5.1. Fasteners:
 - 5.2. Fixing centres:
 - 5.3. Fixing distance from edges (minimum):
6. Joint treatment:

7. Accessories:

67 Additional supports

1. Additional studs, noggings/ dwangs (Scot) and battens
 - 1.1. Provision: In accordance with board manufacturer's recommendations and as follows:
 - 1.2. Tongue and groove jointed rigid board areas: To all unsupported perimeter edges.
 - 1.2.1. Butt jointed rigid board areas: To all unsupported edges.
 - 1.3. Size: Not less than 50 mm wide and of adequate thickness.
 - 1.4. Treatment (where required): As for adjacent timber supports.
2. Additional floor supports.
 - 2.1. Type:

72 Board moisture content and conditioning

1. Moisture content of boards at time of fixing: Appropriate to end use.
2. Conditioning regime: Submit proposals.

85 Fixing generally

1. Timing: Building to be weathertight before fixing boards internally.
2. Moisture content of timber supports (maximum): 18%.
3. Boards/ sheets: Fixed securely to each support without distortion and true to line and level.
4. Joints between boards: Accurately aligned, of constant width and parallel to perimeter edges.
5. Methods of fixing, and fasteners: As section Z20 where not specified otherwise.
6. Fasteners: Evenly spaced in straight lines and in pairs across joints.
 - 6.1. Distance from edge of board: Sufficient to prevent damage.
7. Surplus adhesive: Removed as the work proceeds.

90 Open joints

1. Perimeter joints and joints between boards: Free from plaster, mortar droppings and other debris.
2. Temporary wedges/ packings: Remove on completion of board fixing.

Ω End of Section

K21

Wood strip/ board fine flooring/ linings

To be read with preliminaries/ general conditions.

10 Wood laminate flooring

1. Substrate:
2. Preparation:
3. Resilient layer:
 - 3.1. Recycled content:
4. Vapour control layer:
5. Strips/ Boards
 - 5.1. Standard:
 - 5.1.1. Evidence of compliance: Submit.
 - 5.2. Reaction to fire classification:
 - 5.3. Manufacturer/ Supplier:
 - 5.4. Product reference:
 - 5.5. Wood species (wearing layer):
 - 5.6. Grade:
 - 5.7. Finish:
6. Accessories:
7. Other requirements:

20 Composite laminated flooring

1. Substrate:
 - 1.1. Preparation:
2. Vapour control layer:
3. Resilient layer:
 - 3.1. Recycled content:
4. Strips/ Boards:
 - 4.1. Standard: To BS EN 14041.
 - 4.1.1. Evidence of compliance: Submit.
 - 4.2. Reaction to fire classification:
 - 4.3. Manufacturer/ Supplier:
 - 4.3.1. Product reference:
 - 4.4. Colour/ Pattern:
5. Accessories:
6. Other requirements:

30 Wood lining on battens

1. Substrate:
2. Battens: Regularized softwood free from decay and active insect attack.
 - 2.1. Finished size:
 - 2.2. Spacing:
 - 2.3. Method of fixing:

3. **Strips/ Boards:** Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the appearance class specified). Planed to a smooth surface free from rippling.
 - 3.1. Reaction to fire classification:
 - 3.2. Manufacturer/ Supplier:
 - 3.3. Wood species:
 - 3.4. Appearance class/ Grade:
 - 3.5. Profile:
 - 3.6. Finished size:
 - 3.7. Fire retardant impregnation treatment:
4. **Fixing:**
 - 4.1. Fasteners:
5. **Finish:**
6. **Other requirements:**

50 Existing wood flooring

1. **Condition:** Boards securely fixed and acceptably level. Protruding fasteners punched in or countersunk.

60 Fixtures

1. **Fixtures around which flooring is to be fitted:** Installed before starting work specified in this section.

65 Workmanship generally

1. **Moisture content of timber supports:** 12-14%.
2. **Methods of fixing and fasteners:** As section Z20 where not specified.
3. **Protection:** Protect from dirt, stains and damage using suitable coverings and boards laid as the work proceeds.

70 Vapour control layer installation

1. **Location:** Immediately below
2. **Installation:** Joints overlapped minimum 150 mm and sealed with vapour resistant tape. Membrane turned up at perimeter of flooring and upstands and sealed to top face of flooring. Excess material trimmed off neatly.

80 Expansion provision

1. **Expansion gaps**
 - 1.1. Edges of flooring parallel to lie of boards:
 - 1.2. Ends of flooring:
2. **Spacer blocks and debris:** Removed before fixing skirtings.

85 Environmental conditions

1. **General requirements prior to starting work specified in this section:** Building weathertight, wet trades completed and affected areas dried out.

90 Finish to flooring

1. **Exposed fastener heads:** Punched or set below surface and filled with stopping to match wood.
2. **Strips/ Boards:** Sanded to give a clean, smooth and flush surface free from score marks.

3. Finish:

95 Finish to lining

1. Exposed fastener heads: Punched or set below surface and filled with stopping to match wood.
2. Strips/ Boards: Sanded to give a clean, smooth and flush surface free from score marks.
3. Finish:

Ω End of Section

K32

Panel cubicles/ duct and wall linings/ screens

To be read with preliminaries/ general conditions.

10 Panel cubicle systems Type A

1. Manufacturer: [Venesta Washroom Systems Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: 1st Floor, Units 19-23
St George's Square
St Georges Centre
Gravesend
Kent
United Kingdom
DA11 0TA
 - 1.1.2. Telephone: +44 (0)1474 353333
 - 1.1.3. Web: <https://www.venesta.co.uk/>
 - 1.1.4. Email: marketing@venesta.co.uk
 - 1.2. Product reference: [V1 | Unity \(HPL\)](#)
2. Panels: 18 mm moisture resistant medium density fibreboard (MR MDF) faced with high pressure laminate (HPL).
3. Panel supports: Adjustable pedestals.
4. Pilasters: 35 mm moisture resistant medium density fibreboard (MR MDF) faced with high pressure laminate (HPL).
5. Doors: 35 mm moisture resistant medium density fibreboard (MR MDF) faced with high pressure laminate (HPL).
6. Lippings: 1 mm nominal matching ABS.
7. Hardware: Lock and keep (Slimline lever operated mortice lock incorporating face plate and wrap round keep); indicator bolt (flip style indicator bolt with circular face plate and emergency release facility); aluminium fixing U-channels; aluminium fixing E-channels.
8. System accessories:
9. Headrail: Slimline aluminium profile.
10. Fixings: Partition to wall fixing and pilaster to partition fixing: Satin anodized aluminium u-channel; Pilaster to wall fixing: Satin anodized aluminium e-channel.
11. Cubicle height (overall): 2070 mm from FFL to top of headrail.
12. Cubicle depth: 1800 mm.
13. Clearance: Floor, 50 mm; Ceiling, 20 mm (minimum).
14. Colour/ Finish:
15. Hinges: Modular rise and fall butt hinge.
16. Hardware:

18 Samples

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

19 Control samples

1. General: Complete samples as part of finished work and obtain approval of appearance before proceeding.

2. Types:
 - 2.1. Locations:

20 Installation

1. **Programming:** Do not install cubicles or duct 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 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

L10

Windows/ rooflights/ screens/ louvres

To be read with preliminaries/ general conditions.

3 PVC-U windows

1. Description: White PVC-U
2. Standard: Non-fire-rated and/ or non-smoke-rated windows to [BS EN 14351-1](#) and [BS 7412](#)
3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
 - 3.2. Colour/ texture: White
4. Thermal performance (U-value maximum): Manufacturer's standard
5. Acoustic performance rating: Not required
6. Fire performance
 - 6.1. Fire resistance: Not required
 - 6.2. Reaction to fire: Not required
 - 6.3. Fire egress: Not required
7. Environmental performance:
8. Glazing details: Manufacturer's standard
 - 8.1. Beading: Manufacturer's standard
9. Ironmongery/ accessories: Trickle ventilator; Locking handle
10. Fixing: Manufacturer's standard
 - 10.1. 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.

45 Rooflights

1. Description: Fixed roof light to extension flat roof
2. Manufacturer: Contractor's choice
3. Type: Manufacturer's standard
4. Frame: Aluminium
 - 4.1. Finish: Powder Coating
 - 4.2. Colour: Anthracite grey
5. Kerb: Aluminium
6. Thermal performance (U-value maximum): Manufacturer's standard
7. Fire performance
 - 7.1. Fire resistance: Manufacturer's standard
 - 7.2. Reaction to fire: Manufacturer's standard
8. Environmental performance: Manufacturer's standard
9. Glazing details: Double-skin
10. Other requirements: Manufacturer's standard
11. Fixing: Manufacturer's standard

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](#).

Ω End of Section

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

45 Doors Aluminium External Doors

1. Description: Aluminium External 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: Clear double glazing
 - 4.1. Manifestation: See drawing 24-004-321 Door Schedule
 - 4.2. Beading: See drawing 24-004-321 Door Schedule
5. Ironmongery: See drawing 24-004-321 Door Schedule
6. Fire performance
 - 6.1. Fire resistance: See 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
 - 6.2. Smoke leakage: See 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
 - 6.3. Reaction to fire: See 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
7. Thermal performance (U-value maximum): Manufacturer's standard
8. Other requirements: See drawing 24-004-321 Door Schedule

50 Wood door frames

1. Description: To match doors
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Species: To match doors
4. Preservative treatment: Not required
5. Finish as delivered: Full factory finish

6. **Perimeter seals:** Fire and smoke seal as per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
7. **Fire performance**
 - 7.1. **Fire resistance:** As per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
 - 7.2. **Smoke leakage:** As per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
 - 7.3. **Reaction to fire:** As per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
8. **Thermal performance:** Manufacturer's standard
9. **Fixing:** Built-in with cramps.
 - 9.1. **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 doorsets Type A

1. **Manufacturer:** [Ahmarra Door Solutions Ltd](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Unit 2 Hermitage Park
Harts Farm Way
Havant
Hampshire
United Kingdom
PO9 1FA
 - 1.1.2. **Telephone:** [02392 389 076](tel:02392389076)
 - 1.1.3. **Web:** <https://ahmarra.co.uk/>
 - 1.1.4. **Email:** sales@ahmarra.co.uk
 - 1.2. **Product reference:** [Single Fire Door | School Doors \(FD30s Fire & Smoke Door | Single Door | Education Range\)](#)
2. **Standard:** Internal fire-rated doorset to BS 476-22 and third-party-certified.
3. **Wood in joinery standard:** To BS EN 942.
4. **Configuration:** Single-leaf.
5. **Performance**
 - 5.1. **Fire resistance**
 - 5.1.1. **Integrity:** To BS 476-22, FD30s.
 - 5.2. **Acoustic performance:** Unrated.
 - 5.3. **Strength and durability:** Severe duty.
 - 5.4. **Thermal:** Manufacturer's standard
6. **Frame**
 - 6.1. **Material:** Timber.
 - 6.2. **Species:** See drawing 24-004-320 Door Schedule
 - 6.3. **Appearance class:** J30.
 - 6.4. **Perimeter seals or inserts:** Manufacturer's standard
 - 6.5. **Finish:** Lacquered - clear.
7. **Door leaf**
 - 7.1. **Core:** Timbercore™.
 - 7.2. **Facings:** Wood veneer.
 - 7.3. **Species:** Not required.

- 7.4. Cut: Not required.
- 7.5. Lippings: Exposed lippings to all edges.
- 7.6. Perimeter seals: As per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
- 7.7. Glazing
 - 7.7.1. Type: Fire rated as per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
- 7.8. Beading
 - 7.8.1. Type: Not required.
 - 7.8.2. Fixing: Factory fitted.
- 8. Hardware: All architectural ironmongery included - as part of a complete pre-hung doorset.
- 9. Accessories: Not required.
- 10. Vision panels: As per drawings 24-004-317 Proposed Ground Floor Fire Strategy Plan and 24-004-318 Proposed First Floor Fire Strategy Plan
- 11. Door frame: Lining with planted door stops (LNG).
- 12. Architraves: 44 x 18 mm.
- 13. Anti-finger trap Option: Not required.

55 Wood doorsets Type B

- 1. Manufacturer: [Ahmarra Door Solutions Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Unit 2 Hermitage Park
Harts Farm Way
Havant
Hampshire
United Kingdom
PO9 1FA
 - 1.1.2. Telephone: [02392 389 076](tel:02392389076)
 - 1.1.3. Web: <https://ahmarra.co.uk/>
 - 1.1.4. Email: sales@ahmarra.co.uk
 - 1.2. Product reference: [Single Fire Door | School Doors \(Non Fire Rated Door \(NFR\) | Single Door | Education Range\)](#)
- 2. Standard: Internal non-fire-rated doorset third-party-certified.
- 3. Wood in joinery standard: To BS EN 942.
- 4. Configuration: Single-leaf.
- 5. Doorset size: See drawing 24-004-320 Door Schedule
- 6. Performance
 - 6.1. Fire resistance
 - 6.1.1. Integrity: Non-fire rated.
 - 6.2. Acoustic performance: Unrated.
 - 6.3. Strength and durability: Severe duty.
 - 6.4. Thermal: Manufacturer's standard
- 7. Frame
 - 7.1. Material: Timber.
 - 7.2. Species: To match existing
 - 7.3. Appearance class: J30.
 - 7.4. Perimeter seals or inserts: See drawing 24-004-320 Door Schedule

- 7.5. Finish: Lacquered - clear.
- 8. Door leaf
 - 8.1. Core: Timbercore™.
 - 8.2. Facings: Wood veneer.
 - 8.3. Species: Not required.
 - 8.4. Cut: Not required.
 - 8.5. Lippings: Exposed lippings to all edges.
 - 8.6. Perimeter seals: See drawing 24-004-320 Door Schedule
 - 8.7. Glazing
 - 8.7.1. Type: See drawing 24-004-320 Door Schedule
 - 8.8. Beading
 - 8.8.1. Type: Not required.
 - 8.8.2. Fixing: Factory fitted.
- 9. Hardware: All architectural ironmongery included - as part of a complete pre-hung doorset.
- 10. Accessories: See drawing 24-004-320 Door Schedule
- 11. Vision panels: See drawing 24-004-320 Door Schedule
- 12. Door frame: Lining with planted door stops (LNG).
- 13. Architraves: 44 x 18 mm.
- 14. Anti-finger trap Option: Not required.

55 Wood doorsets Type C

- 1. Manufacturer: [Ahmarra Door Solutions Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Unit 2 Hermitage Park
Harts Farm Way
Havant
Hampshire
United Kingdom
PO9 1FA
 - 1.1.2. Telephone: [02392 389 076](tel:02392389076)
 - 1.1.3. Web: <https://ahmarra.co.uk/>
 - 1.1.4. Email: sales@ahmarra.co.uk
 - 1.2. Product reference: [Double Fire Doors - Double Action | School Doors \(FD30 Fire Doors | Double Doors – Double Action | Education Range\)](#)
- 2. Standard: Internal fire-rated doorset to BS 476-22 and third-party-certified.
- 3. Wood in joinery standard: To BS EN 942.
- 4. Configuration: Double-leaf, double-action.
- 5. Doorset size: See drawing 24-004-320 Door Schedule
- 6. Performance
 - 6.1. Fire resistance
 - 6.1.1. Integrity: To BS 476-22, FD30.
 - 6.2. Acoustic performance: Unrated.
 - 6.3. Strength and durability: Severe duty.
 - 6.4. Thermal: Manufacturer's standard
- 7. Frame
 - 7.1. Material: Timber.

- 7.2. Species: To match existing
- 7.3. Appearance class: J30.
- 7.4. Perimeter seals or inserts: See drawing 24-004-320 Door Schedule
- 7.5. Finish: Lacquered - clear.
- 8. Door leaf
 - 8.1. Core: Timbercore™.
 - 8.2. Facings: Wood veneer.
 - 8.3. Species: Not required.
 - 8.4. Cut: Not required.
 - 8.5. Lippings: Exposed lippings to all edges.
 - 8.6. Perimeter seals: See drawing 24-004-320 Door Schedule
 - 8.7. Glazing
 - 8.7.1. Type: See drawing 24-004-320 Door Schedule
 - 8.8. Beading
 - 8.8.1. Type: Not required.
 - 8.8.2. Fixing: Factory fitted.
- 9. Hardware: All architectural ironmongery included - as part of a complete pre-hung doorset.
- 10. Accessories: See drawing 24-004-320 Door Schedule
- 11. Lippings: See drawing 24-004-320 Door Schedule
- 12. Vision panels: See drawing 24-004-320 Door Schedule
- 13. Door frame: Lining double action (LDA).
- 14. Architraves: 44 x 18 mm.

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: transparent
 - 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

L40

General glazing

To be read with preliminaries/ general conditions.

10 Workmanship and positioning generally

1. Glazing
 - 1.1. Generally: In accordance with BS 6262 series.
 - 1.2. Integrity:
2. Glass
 - 2.1. Standards: Generally to BS 952-1, BS 952-2 and to the relevant parts of:
 - 2.1.1. BS EN 572-9 for basic soda lime silicate glass.
 - 2.1.2. BS EN 1096-1 for coated glass.
 - 2.1.3. BS EN 12150-2 for thermally toughened soda lime silicate glass.
 - 2.1.4. BS EN 14449 for laminated glass.
 - 2.2. Quality:
 - 2.3. Dimensional tolerances:
 - 2.4. Material compatibility:
 - 2.5. Protection:

20 Removal of glass/ Plastics for reuse

1. Existing glass/ plastics, glazing compound, beads, etc.:
2. Deterioration of frame/ surround:
 - 2.1. Affected areas:

30 Preparation

1. Surrounds, rebates, grooves and beads:

65 Fire-resistant tape/ Strip glazing

1. Description:
2. Fire performance
 - 2.1. Fire resistance:
 - 2.2. Manufacturer:
 - 2.2.1. Product reference:
3. Pane material:
4. Surround/ bead:
 - 4.1. Bead-fixing:
5. Glazing system:
6. Installation:
7. Certification:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

75 Fire-resistant channel glazing – solid section channel

1. Description:
2. Fire performance
 - 2.1. Fire resistance:
3. Manufacturer:
 - 3.1. Product reference:
4. Pane material:
5. Surround/ bead:
 - 5.1. Fire-resistant channel:
 - 5.2. Cover strips:
6. Installation:
7. Certification:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

80 Fire-resistant channel glazing – plastics/ elastomeric channel

1. Description:
2. Fire performance
 - 2.1. Fire resistance:
3. Manufacturer:
 - 3.1. Product reference:
4. Pane material:
5. Surround/ bead:
 - 5.1. Bead-fixing:
 - 5.2. Fire-resistant channel:
 - 5.3. Aperture lining:
6. Installation:
7. Certification:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

90 Internal tape glazing

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Pane material:
4. Surround/ bead:
 - 4.1. Bead-fixing:
5. Tape/ Section:
6. Installation:
7. Verification:
 - 7.1. Submittals:

7.2. Timing:

91 Glass mirrors

1. Description:
2. Standard: To [BS EN 1036-2](#).
 - 2.1. BS EN 1036-2 characteristics:
3. Manufacturer:
 - 3.1. Product reference:
4. Mirror material:
 - 4.1. Thickness:
 - 4.2. Backing:
 - 4.3. Edge treatment:
5. Background:
6. Fixing method:
7. Installation:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

92 Plastics mirrors

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Mirror material:
 - 3.1. Thickness:
 - 3.2. Backing:
4. Background:
5. Fixing method:
6. Installation:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

95 Window film

1. Description:
2. Type:
3. Manufacturer:
 - 3.1. Product reference:
4. Colour:
5. Application:
6. Installed film:
7. Cleaning and maintenance instructions:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

96 Manifestation

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Design:
 - 3.1. Art work:
 - 3.1.1. Media:
4. Technique:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

99 Verification on completion

1. Requirement:
2. Method:
3. Submittals:
 - 3.1. Format:
 - 3.2. Timing:

Ω End of Section

M40

Stone/ concrete/ quarry/ ceramic tiling/ mosaic

To be read with preliminaries/ general conditions.

5 Tiling

1. Description:
2. Tiles:
 - 2.1. Manufacturer/ supplier:
 - 2.1.1. Product reference:
 - 2.2. Standard:
 - 2.3. Colour:
 - 2.4. Finish:
 - 2.4.1. Ceramic tiles:
 - 2.5. Size:
 - 2.6. Thickness:
 - 2.7. Slip potential
 - 2.7.1. Slip resistance value (SRV) (minimum)/ pendulum test value (PTV) (minimum) to BS EN 16165:
 - 2.7.2. Surface roughness (Rz) (minimum) in accordance with BS 1134:
 - 2.7.3. Ramp test class:
 - 2.8. Recycled content:
 - 2.9. Other requirements:
3. Background/ base:
 - 3.1. Preparation:
4. Intermediate substrate:
5. Bedding
 - 5.1. Walls:
 - 5.2. Floors:
 - 5.3. Reinforcement:
 - 5.4. Adhesive:
6. Joint width:
7. Grout:
 - 7.1. Type/ classification:
 - 7.2. Admixture:
8. Movement joints:
 - 8.1. Location:
9. Accessories:
10. Verification
 - 10.1. Submittals:
 - 10.2. Timing:

10 Natural stone covering

1. Description:
2. Type:

3. Stone

- 3.1. Name (traditional):
- 3.2. Petrological family:
- 3.3. Colour:
- 3.4. Origin:
- 3.5. Finish:
- 3.6. Supplier:
- 3.7. Quality:
- 3.8. Size:
- 3.9. Thickness:
- 3.10. Slip potential
 - 3.10.1. Slip resistance value (SRV) (minimum) to BS EN 14231:
 - 3.10.2. Surface roughness (Rz) (minimum) in accordance with BS 1134:
 - 3.10.3. Ramp test class:
- 3.11. Other requirements:

4. Background/ base:

- 4.1. Preparation:

5. Intermediate substrate:

6. Bedding

- 6.1. Walls:
- 6.2. Floors:
- 6.3. Reinforcement:
- 6.4. Adhesive:

7. Joint width:

8. Grout:

- 8.1. Type/ classification:

9. Movement joints:

10. Accessories:

11. Verification

- 11.1. Submittals:
- 11.2. Timing:

12 Mosaic

1. Description:

2. Mosaic:

- 2.1. Manufacturer/ supplier:
- 2.2. Product reference:
- 2.3. Colour:
- 2.4. Finish:
- 2.5. Size:
- 2.6. Thickness:
- 2.7. Slip potential
 - 2.7.1. Slip resistance value (SRV) (minimum)/ pendulum test value (PTV) (minimum) to BS EN 16165:
 - 2.7.2. Surface roughness (Rz) (minimum) in accordance with BS 1134:

2.7.3. Ramp test class:

3. Background/ base:
 - 3.1. Preparation:
4. Intermediate substrate:
5. Bedding: Adhesive bed using notched trowel method as
6. Adhesive.....
7. Grout:
 - 7.1. Type/ classification:
8. Admixture:
9. None
10. Movement joints:
11. Accessories:
12. Verification
 - 12.1. Submittals:
 - 12.2. Timing:

15 New backgrounds/ bases

1. Background drying times (minimum)
 - 1.1. Brick/block walls:
 - 1.2. Rendering:
 - 1.3. Gypsum plaster:
2. Base drying times (minimum)
 - 2.1. Concrete slabs:
 - 2.2. Cement:sand screeds:

20 Existing backgrounds/ bases generally

1. Efflorescence, laitance, dirt, loose and defective material:
2. Deposits of oil, grease and other materials incompatible with the bedding:
3. Tile, paint and other nonporous surfaces:
4. Wet backgrounds:
5. Paint with unsatisfactory adhesion:

25 New plaster

1. Plaster:
2. Plaster primer:

27 Intermediate substrate

1. Type:
 - 1.1. Manufacturer:
 - 1.1.1. Product reference:
2. Fixing system:
 - 2.1. Application:
3. Joints:
 - 3.1. Treatment:
4. Penetrations: Seal.

5. Accessories:

30 Fixing generally

1. Colour/ shade:
 - 1.1. Variegated tiles:
2. Adhesive:
3. Cut tiles:
4. Fixing:
5. Final appearance:
6. Deviation of surface:
7. Surplus bedding material:

32 Mortar bedding

1. Bedding mix
 - 1.1. Cement:
 - 1.2. Sand for walls:
 - 1.2.1. Grading designation:
 - 1.3. Sand for floors:
2. Grading designation:
3. Batching:
 - 3.1. Batch by weight.
 - 3.2. Batch by volume:
4. Mixing:
5. Application:

35 Setting out

1. Joints:
 - 1.1. Joints on walls:
 - 1.2. Joints in floors:
2. Cut tiles:
3. Joints in adjoining floors and walls:
4. Joints in adjoining floors and skirtings:
5. Movement joints:
6. Setting out of : Drawing references:
7. Setting out of : Submit proposals.

40 Tile skirtings

1. Bedding: Solid to wall on

50 Adhesive bed – notched trowel method to walls

1. Application:
2. Tiling:

55 Adhesive bed – notched trowel and buttering method to walls

1. Application:
2. Tiling:

3. Finished adhesive thickness:

57 Adhesive bed – buttering method

1. Tiling:
2. Finished adhesive thickness
 - 2.1. Walls:
 - 2.2. Floors:

60 Adhesive bed – notched trowel and buttering method to floors

1. Application:
2. Tiling:
3. Finished adhesive thickness:

62 Adhesive bed – notched trowel method for mesh-backed mosaic to walls

1. Application:
2. Placing mosaic sheets:
3. Width, plane and alignment of joints between sheets:

64 Adhesive bed – notched trowel method for paper-faced mosaic to walls

1. Application:
2. Preparing mosaic sheets:
3. Placing mosaic sheets:
4. Width, plane and alignment of joints between sheets:
5. Paper face:

66 Semi-dry cement:sand bedding (floors)

1. Mortar bedding mix:
 - 1.1. Water content:
2. Preparation:
3. Laying:
 - 3.1. Finished bed thickness (minimum):
 - 3.2. Finished bed thickness (maximum):
4. Tiling:

70 Grouting

1. Sequence:
2. Joints:
3. Grouting:
4. Profile:
5. Polishing:

75 Sealant movement joints

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Joints:

- 3.1. Width:
- 4. Sealant:
 - 4.1. Colour:
 - 4.2. Preparation and application:

80 Strip movement joints

- 1. Description:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Joint width:
- 4. Fixing to base:
- 5. Joints:

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
 - 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
 - 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](#)
 - 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](tel:+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](#)
 - 1.1. Contact details
 - 1.1.1. Address: Vine House
Cheddar Business Park
Cheddar
 - 1.1.2. Telephone: [+44 \(0\)1934 740305](tel:+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](#)
 - 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](#)
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 \(Polyrey washroom collection\)](#)
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
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
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)
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

N10

General fixtures/ furnishings/ equipment

To be read with preliminaries/ general conditions.

80 Sealant

1. Description:
2. Standard:
3. Type:
4. Manufacturer:
 - 4.1. Product reference:
5. Colour:
6. Cure:
7. Other requirements:
8. Application:
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

170 Linked seats To All Changing Rooms

1. Manufacturer: [Venesta Washroom Systems Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: 1st Floor, Units 19-23
St George's Square
St Georges Centre
Gravesend
Kent
United Kingdom
DA11 0TA
 - 1.1.2. Telephone: [+44 \(0\)1474 353333](tel:+441474353333)
 - 1.1.3. Web: <https://www.venesta.co.uk/>
 - 1.1.4. Email: marketing@venesta.co.uk
 - 1.2. Product reference: [Lockers | SGL Locker Benching \(Perimeter Bench with legs \)](#)
2. Seats and backs
 - 2.1. Material: Solid grade laminate (SGL).
 - 2.2. Finish: Laminated.
 - 2.3. Colour: TBC
3. Frames
 - 3.1. Material: Steel, nylon.
 - 3.2. Finish: Powder coated.
 - 3.3. Colour: Light grey.
4. Integral accessories: Polyester powder-coated (PPC) aluminium coat hook.
5. Lengths: To fit
6. Frame: Steel frame with height adjustable nylon foot. Legs supports centered at 700 mm (maximum 850 mm).
7. Seats: One 13 mm solid grade laminate (SGL) seat.

8. Fixing: Stainless steel screws.
9. Depth: 330 mm.
10. Height: 440–460 mm.
11. Edge treatment: Black, radiused and polished.

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: Black/ grey
6. Exposed edges: Stainless steel
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

N12

Commercial catering fittings, furniture and equipment

Products

310 Food preparation

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Work surface
 - 4.1. Material:
 - 4.2. Finish/ Colour:
5. Support:
 - 5.1. Material:
 - 5.2. Finish/ Colour:
6. Other requirements:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

320 Worktops

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Material:
5. Finish/ Colour:
6. Exposed edges:
7. Support:
 - 7.1. Material:
 - 7.2. Finish/ Colour:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

330 Cooking equipment

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Material:
5. Finish/ Colour:
6. Capacity:
7. Service connections:

8. Power rating:
9. Other requirements:
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

340 Appliances

1. Item:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Material:
5. Finish/ Colour:
6. Capacity:
7. Service connections:
8. Power rating:
9. Other requirements:
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

350 Hot cupboards

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Material:
5. Finish/ Colour:
6. Service connections:
7. Power rating:
8. Other requirements:
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

360 Servery counters

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Material:
5. Finish/ Colour:
6. Service connections:
7. Power rating:
8. Other requirements:

- 9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

370 Display units

- 1. Description:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Dimensions:
- 4. Material:
- 5. Finish/ Colour:
- 6. Service connections:
- 7. Power rating:
- 8. Other requirements:
- 9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

380 Sinks, taps, traps and wastes

- 1. Description:
- 2. Sinks
 - 2.1. Manufacturer:
 - 2.1.1. Product reference:
 - 2.2. Configuration:
 - 2.3. Overall size:
 - 2.4. Material:
 - 2.5. Finish/ Colour:
- 3. Support:
 - 3.1. Material:
 - 3.2. Finish/ Colour:
- 4. Tap/ Chainstay/ Overflow holes:
- 5. Taps:
 - 5.1. Manufacturer:
 - 5.1.1. Product reference:
 - 5.2. Operation:
 - 5.3. Material:
- 6. Wastes:
 - 6.1. Standard: To [BS EN 274-1](#), [BS EN 274-2](#) and [BS EN 274-3](#).
 - 6.2. Manufacturer:
 - 6.2.1. Product reference:
 - 6.3. Size:
 - 6.4. Material:
 - 6.5. Tail:
- 7. Traps:
 - 7.1. Standard: To [BS EN 274-1](#), [-2](#) and [-3](#).

- 7.2. Manufacturer:
 - 7.2.1. Product reference:
- 7.3. Size:
- 7.4. Material:
- 7.5. Depth of seal (minimum):
- 8. Other requirements:
- 9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

390 Food waste disposal units

- 1. Description:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Capacity/ Output:
- 4. Power rating/ motor:
- 5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

400 Dishwashing machines

- 1. Description:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Dimensions:
- 4. Material:
- 5. Finish/ Colour:
- 6. Capacity:
- 7. Service connections:
- 8. Water consumption:
- 9. Power rating
- 10. Wash temperature:
- 11. Accessories:
- 12. Other requirements:
- 13. Verification:
 - 13.1. Submittals:
 - 13.2. Timing:

410 Refrigeration and freezer units

- 1. Item:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Dimensions:
- 4. Material:
- 5. Finish/ Colour:

6. Capacity:
7. Service connections:
8. Other requirements:
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

420 Cupboards and storage units

1. Item:
2. Manufacturer:
 - 2.1. Product reference:
3. Dimensions:
4. Material:
5. Finish/ Colour:
 - 5.1. Edges:
6. Accessories:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

430 Shelving

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Shelves
 - 3.1. Material:
 - 3.2. Finish/ Colour:
4. Accessories:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

440 Purpose-made

1. Description:
2. Manufacturer:
3. Dimensions:
4. Timber:
 - 4.1. Species:
 - 4.2. Appearance class:
 - 4.3. Moisture content on delivery:
5. Wood-based boards:
6. Metal:
 - 6.1. Grade:
7. Other materials:
8. Finishes:

9. Adhesive:
10. Fixings:
 - 10.1. Fasteners:
11. Joinery workmanship:
12. Metalwork materials and workmanship:
13. Other requirements:
14. Verification:
 - 14.1. Submittals:
 - 14.2. Timing:

450 Loose-laid matting

1. Description:
2. Purpose/ Location:
3. Manufacturer:
 - 3.1. Product reference:
4. Size:
5. Colour:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Items:

460 Miscellaneous equipment

1. Item:
2. Manufacturer:
 - 2.1. Product reference:
3. Size/ Capacity:
4. Material:
 - 4.1. Finish/ Colour:
5. Other requirements:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

470 Sealant

1. Standard:
2. Type:
3. Manufacturer:
 - 3.1. Product reference:
4. Colour:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

Execution

610 Moisture content of wood and wood-based boards

1. Control and monitoring
 - 1.1. Method statement:

620 Installation generally

1. Fixing and fasteners:
2. Services:

630 Installing equipment, units, appliances and worktops

1. General:

640 Services to equipment, units and appliances

1. Connections:

650 Installing sinks, taps, traps and wastes

1. Water supply:
2. Taps
 - 2.1. Fixing:
 - 2.2. Positioning:
3. Wastes
 - 3.1. Bedding:
 - 3.2. Fixing:

660 Sealant bedding and pointing

1. Application:
2. Bedding:
3. Pointing:

670 Trims

1. Lengths:
2. Angle joints:

Completion

910 General

1. Doors and drawers:
2. Ironmongery:

920 Equipment, units and appliances

1. Test:
2. Documentation:

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:
 - 2.1. Material:
 - 2.2. Colour:
3. Pan:
 - 3.1. Standards:
 - 3.2. Manufacturer:
 - 3.2.1. Product reference:
4. Material:
5. Seat:
6. Pan connector:
7. Flushing arrangement:
 - 7.1. Manufacturer:
 - 7.1.1. Product reference:
 - 7.2. Operating control:
 - 7.3. Flush volume:
8. Accessories:

10 WC pans Type A

1. Pan:
 - 1.1. Manufacturer: [Armitage Shanks](#)
 - 1.1.1. Contact details
 - 1.1.1.1. Address: Armitage
Old Road
Rugeley
Staffordshire
WS15 4BT
 - 1.1.1.2. Telephone: [+44 \(0\)870 122 8822](tel:+44(0)8701228822)
 - 1.1.1.3. Web: www.idealspec.co.uk
 - 1.1.1.4. Email: info@thebluebook.co.uk
 - 1.1.2. Product reference: [Contour 21+ Back-to-Wall Rimless Toilet](#)
 - 1.2. Standard: To BS EN 997.
 - 1.3. Form: Back-to-wall, dual flush.
 - 1.4. Connecting dimensions: To BS EN 33.
 - 1.5. Pan height: 410 mm.
 - 1.6. Materials
 - 1.6.1. Body: Vitreous china.
 - 1.6.2. Finish and colour: White.
 - 1.7. Water supply, outlet and seat holes

1.7.1. Outlet: Horizontal back outlet.

1.8. Seat:

12 Accessible WC equipment packages

1. Manufacturer: [Armitage Shanks](#)
 - 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: [Doc M Standard WC Pack - Right Hand](#)
2. Standards: In accordance with Approved Document M.
3. Form: Complete accessible WC Doc M package and fittings.
4. Arrangement: Back-to-wall pack.
5. Transfer handing: Right-hand.
6. Material and colour
 - 6.1. WC pans: Vitreous china to BS EN 997, white.
 - 6.2. WC cisterns: Vitreous china to BS EN 997, white.
 - 6.3. WC seats: Plastics, white.
 - 6.4. Washbasins
 - 6.4.1. Material: Vitreous china to BS EN 14688, white.
 - 6.5. Handrails: Blue powder-coated carbon steel.
7. Water supply fittings: TMV3 mixer tap with copper tails.
8. Integral accessories: Toilet roll holder.

14 Accessible shower equipment packages

1. Manufacturer: [Twyford Bathrooms](#)
 - 1.1. Contact details
 - 1.1.1. Address: Lawton Road
Alsager
Stoke-on-Trent
Staffordshire
ST7 2DF
 - 1.1.2. Telephone: [+44 \(0\) 1926 516 800](tel:+44(0)1926516800)
 - 1.1.3. Web: www.twyfordbathrooms.com
 - 1.1.4. Email: enquiries@geberit.co.uk
 - 1.2. Product reference: [Twyford Avalon Shower Set, Surface Mounting, Barrier-Free \(PK7020BE steel blue RAL 5011\)](#)
2. Form: Complete accessible shower Doc M package, fittings, surface mounting.
3. Material and colour
 - 3.1. Seat: Plastics, grey.
 - 3.2. Seat back: Plastics, grey.
 - 3.3. Shower curtains and rails: Plastics, white.

- 3.4. Handrails: Coated aluminium, dark blue.
- 4. Water supply fittings
 - 4.1. Shower fittings: Fixed shower head, detachable shower head and hose including pipe, shower rail, shower tap.
 - 4.2. Finish: Chrome-plated.
 - 4.3. Operating control: Manual.
 - 4.4. Flow rate: 18.6 l/min. at 3 bar.
- 5. Integral accessories: Fastening material.

25 Sinks

- 1. Description:
- 2. Type:
- 3. Manufacturer:
 - 3.1. Product reference:
- 4. Size:
- 5. Material:
- 6. Colour:
- 7. Tap holes:
- 8. Taps:
 - 8.1. Material:
 - 8.2. Size:
 - 8.3. Water supply temperature (maximum):
- 9. Wastes:
 - 9.1. Standards: To BS EN 274-1, -2 and -3.
 - 9.2. Manufacturer:
 - 9.2.1. Product reference:
 - 9.3. Size:
 - 9.4. Material:
 - 9.5. Tail:
- 10. Traps:
 - 10.1. Standards: To BS EN 274-1, -2 and -3.
 - 10.2. Manufacturer:
 - 10.2.1. Product reference:
- 11. Accessories:

30 Washbasins

- 1. Type:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Material:
- 4. Colour:
- 5. Size:
- 6. Tap holes:
- 7. Taps:
 - 7.1. Type:

- 7.2. Material:
- 7.3. Size:
- 7.4. Manufacturer:
 - 7.4.1. Product reference:
- 7.5. Water supply temperature (maximum):
- 8. Wastes:
- 9. Traps:
- 10. Accessories:

30 Wash troughs Type A

- 1. Manufacturer: [Armitage Shanks](#)
 - 1.1. Contact details
 - 1.1.1. Address: Armitage
Old Road
Rugeley
Staffordshire
WS15 4BT
 - 1.1.2. Telephone: [+44 \(0\)870 122 8822](#)
 - 1.1.3. Web: www.idealspec.co.uk
 - 1.1.4. Email: info@thebluebook.co.uk
 - 1.2. Product reference: [Silhouette 180cm Washtroughs](#)
- 2. Standards: To BS EN 14296 and EN 695.
- 3. Form:
- 4. Stations: Three.
- 5. Materials
 - 5.1. Body: Solid surface.
 - 5.2. Finish and colour: White.
- 6. Size: 1200 x 470 mm.
- 7. Water supply, overflow and waste holes
 - 7.1. Water supply: Two tap holes in backplate at each user position.
 - 7.2. Overflow: None.

30 Countertop washbasins Type B

- 1. Type: <https://nbs.fyi/IKcGUE>
- 2. Manufacturer: [Villeroy & Boch AG](#)
 - 2.1. Contact details
 - 2.1.1. Address: Saaruferstraße 1-3
Germany
66693 METTLACH
 - 2.1.2. Telephone: [+49 \(0\) 6864 81 1500](#)
 - 2.1.3. Web: <https://pro.villeroy-boch.com>
 - 2.1.4. Email: information@villeroy-boch.com
 - 2.2. Product reference:
- 3. Material:
- 4. Colour:
- 5. Size:

6. Tap holes:
7. Taps:
 - 7.1. Type:
 - 7.2. Material:
 - 7.3. Size:
 - 7.4. Manufacturer:
 - 7.5. Water supply temperature (maximum):
8. Wastes:
9. Traps:
10. Accessories:

40 Shower thermostatic water supply sets Type A

1. Tray:
 - 1.1. Manufacturer: [Armitage Shanks](#)
 - 1.1.1. Contact details
 - 1.1.1.1. Address: Armitage
Old Road
Rugeley
Staffordshire
WS15 4BT
 - 1.1.1.2. Telephone: [+44 \(0\)870 122 8822](#)
 - 1.1.1.3. Web: [www.idealspec.co.uk](#)
 - 1.1.1.4. Email: [info@thebluebook.co.uk](#)
 - 1.1.2. Product reference: [Avon 21 Built-In Self Closing Shower Mixer](#)
 - 1.2. Approvals: Water Regulations Advisory Scheme (WRAS)-approved.
 - 1.3. Form: Concealed wall-mounted thermostatic shower mixer valve.
 - 1.4. Materials
 - 1.4.1. Body: Brass.
 - 1.4.2. Finish and colour: Chrome-plated.
 - 1.5. Flow rate (maximum): 6 L/ min at 1 bar.
 - 1.6. Integral accessories: Variable temperature control.
 - 1.7. Shower head:
 - 1.8. Dimensions: 190 mm diameter.
 - 1.9. Weight: 2.86 kg.

41 Shower heads Type A

1. Manufacturer: [Dolphin Solutions](#)
 - 1.1. Contact details
 - 1.1.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 1.1.2. Telephone: [+44 \(0\)1424 202224](#)
 - 1.1.3. Web: [www.dolphinsolutions.co.uk](#)
 - 1.1.4. Email: [info@dolphinsolutions.co.uk](#)

- 1.2. Product reference: [Dolphin Blue Shower Heads \(DB1031\)](#)
2. Materials
 - 2.1. Body: Brass.
 - 2.2. Finish and colour: Chrome plated.
3. Mounting: Wall mounted.
4. Inlet: Rear inlet.
5. Flowrate: 9 L/ minute.

42 Shower mixer valves

1. Manufacturer: Submit proposals
 - 1.1. Product reference: Submit proposals
2. Type: As sanitary schedule

60 Toilet paper dispensers To All WCs

1. Description:
2. Manufacturer: [Dudley Industries Limited](#)
 - 2.1. Contact details
 - 2.1.1. Address: Preston Road
Lytham
Lancashire
FY8 5AT
 - 2.1.2. Telephone: [+44 \(0\)1253 738311](tel:+44(0)1253738311)
 - 2.1.3. Web: <https://www.dudleyindustries.com/>
 - 2.1.4. Email: sales@dudleyindustries.com
 - 2.2. Product reference: Jumbo Toilet Roll Dispenser 89424SS
 - 2.3. Form: Wall mounted large roll dispensers.
3. Material: Stainless steel
4. Dimension: 400 x 398 x 140 mm.
5. Qty: 8

62 Soap dispensers To All WHB

1. Description: Hand Soap Dispenser
2. Manufacturer: [Delabie UK Ltd](#)
 - 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
3. Type: As sanitary schedule
4. Size: Manufacturer standard
5. Material: Plastics
6. Colour: White

63 Glass mirrors To Staff WC

1. Description: Mirror above WHB
2. Manufacturer: [Delabie UK Ltd](#)
 - 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:
3. Type: As sanitary schedule
4. Size: To match WHB
5. Material: Chromium-plated
6. Colour: Self-coloured

64 Hand dryers To All WHC

1. Description: Heat Outdoors & Handy Dryers
2. Standard: To BS EN 60335-2-23.
3. Type: Manufacturer Standard
4. Manufacturer: [Heat Outdoors & Handy Dryers](#)
 - 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](tel:+(0)1279466500)
 - 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)
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
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
 - 1.1. **Product reference:** See NBS N13-12
2. **Type:** As sanitary schedule
3. **Material:** As sanitary schedule
4. **Colour:** See NBS N13-12
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.

71 Removing sanitary appliances and fittings

1. **Extent:** Complete installation
 - 1.1. **Sanitary appliances:** As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.1.1. **Quantity:** As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.1.2. **Disposal:** Remove from site for recycling
 - 1.2. **Water supply fittings:** As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.2.1. **Quantity:** As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.2.2. **Disposal:** Remove from site for recycling
 - 1.3. **Accessories:** As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.3.1. **Quantity:** As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.3.2. **Disposal:** Remove from site for recycling

72 Modifying sanitary installations

1. **Extent:** As drawing 24-004-311 GA Proposed Ground Floor Plan
2. **Method:** Submit proposals

73 Installing sanitary appliances and fittings

1. Extent
 - 1.1. Sanitary appliances: As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.2. Water supply fittings: As drawing 24-004-311 GA Proposed Ground Floor Plan
 - 1.3. Accessories: As drawing 24-004-311 GA Proposed Ground Floor Plan

75 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 position.

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.
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

331 Cleaner's sink

1. Manufacturer: [Shaws of Darwen](#)
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 New clause

1. <https://nbs.fyi/KuOyma>

335 Washbasin taps To WC, Accessible WC and All Changing Rooms (B)

1. Manufacturer: [dline](#)
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, 190mm (QST3190M, Stainless Steel, satin)
4. Description: 190 mm infrared sensor tap for wall installation.

429 Clothes hooks To All Shower Doors

1. Manufacturer: [Hafele UK Ltd](#)
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. Contact details<https://nbs.fyi/4QAOcO>
 - 3.1. Address: Swift Valley Industrial Estate
Rugby
Warwickshire
CV21 1RD
 - 3.2. Telephone: [+44 \(0\)800 171 2907](tel:+44(0)8001712907)

- 3.3. Web: https://www.hafele.co.uk/en/info/project/358/?hafref=Direct_None_MK0023-ProjectsNBSlink_72393892_HUK
- 3.4. Email: Estimating.HUK@hafele.co.uk
- 4. Product reference: HUKP-0105-21
- 5. Qty: 5

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

- 1. Manufacturer: [Allgood Ltd](#)
- 2. Contact details
 - 2.1. Address: 63-83 Brearley Street
Birmingham
United Kingdom
United Kingdom
B19 3NT
 - 2.2. Telephone: [+44 \(0\)121 359 4415](tel:+44(0)1213594415)
 - 2.3. Web: <https://www.allgood.co.uk/>
 - 2.4. Email: info@allgood.co.uk
- 3. Product reference:
- 4.

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
 - 3.2.1. Product reference: Concept Arc Close Coupled Toilet With Aquablade Technology
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](#)
 - 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:+441472882282)
 - 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](#)
 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.
- Axis Architecture Limited
19-09-2025

11. Dimensions: 355 x 540 x 340 mm.

14 Unisex accessible shower room equipment packages (Document M)

1. Description: <https://nbs.fyi/6K6u4l>
2. Manufacturer: [Twyford Bathrooms](#)
 - 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](tel:+441926516800)
 - 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](#)
 - 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](tel:+441926516800)
 - 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](#)
 - 1.1. Contact details
 - 1.1.1. Address: Saaruferstraße 1-3
Germany
66693 METTLACH
 - 1.1.2. Telephone: [+49 \(0\) 6864 81 1500](tel:+49(0)6864811500)
 - 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 \(414261R1\)](#)
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](#)
 - 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](#)
 - 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: [Kim Shower Panel \(S7872\)](#)
- 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](#)
 - 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:+44122388228822)
- 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](#)
 - 1.1. Contact details
 - 1.1.1. Address: Preston Road
Lytham
Lancashire
FY8 5AT
 - 1.1.2. Telephone: [+44 \(0\)1253 738311](tel:+441253738311)
 - 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 \(89424WB\)](#)
- 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](#)
 - 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:+441491824449)
 - 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

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](#)
 - 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](tel:+441279466500)
 - 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)
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
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](#)
2. **Contact details**

- 2.1. Address: The Granary
School Road
Neatishead
Norwich
Norfolk
NR12 8BU
- 2.2. Telephone: +44 (0)1603 424855
- 2.3. Web: <https://www.dunhamswashrooms.com/>
- 2.4. Email: info@dunhamswashrooms.com
3. Product reference: [Sanivé® Flow Solid Surface Wash Trough](#)
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](#)
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](#)
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 \(QST3190M, Stainless steel, satin\)](#)
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 Changing Rooms

- 1.

429 Clothes hooks To All Shower Doors

1. Manufacturer: [Hafele UK Ltd](#)
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 \(HUKP-0105-21\)](#)
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:
2. System manufacturer:
 - 2.1. System reference:
3. Location and layout:
 - 3.1. Language: English.
4. Material:
 - 4.1. Other properties:

125 Photoluminescent way guidance system

1. Description:
2. System manufacturer:
 - 2.1. System reference:
3. Locations and layout:
4. Material:

System performance

205 Design of internal signage systems

1. Description:
2. Design: Complete detailed design and submit before commencing work.
3. Content: Signs including facing information, components, inserts, accessories and fixings necessary to complete the system.
4. Proposals: Submit drawings, schedules, technical information, calculations and manufacturer's literature before commencing work.

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:

220 Sign design and format

1. Description:
2. Format:
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:
2. Luminance delay classification to BS ISO 17398:

270 Fire performance

1. Description:
2. Reaction to fire
 - 2.1. Standard:
 - 2.2. Class:

Products

310 Adhesive vinyl

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Component thickness:
4. Finish:

320 Aluminium plate

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Component thickness:
4. Finish:
5. Perimeters:
6. Supports/ fixings:
7. Accessories:

330 Plastics sheet

1. Description:
2. Material:
3. Manufacturer:
 - 3.1. Product reference:
4. Component thickness:
5. Finish:
6. Perimeters:
7. Supports/ fixings:
8. Accessories:

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

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

N17

Portable and mobile firefighting systems

General

10 Portable fire extinguisher system

1. Description:
2. Type:
3. Capacity:
4. Supports:

12 Mobile fire extinguisher system

1. Description:
2. Type:
3. Capacity:

15 Fire blanket system

1. Description:
2. Type:
3. Size:
4. Supports:

16 Fire bucket system

1. Description:
2. Type:
3. Supports:

System performance

21 Design

1. Design: Complete the design of the portable firefighting system.
 - 1.1. Basis:
2. Proposals:

22 Colour coding

1. Portable fire extinguishers: Colour code in accordance with BS 7863.

Products

31 Carbon dioxide portable extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

32 Dry powder portable extinguishers

1. Standard:
2. Manufacturer:

2.1. Product reference:

33 Foam portable extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

34 Water portable extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

35 Wet chemical portable extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

36 Carbon dioxide mobile extinguishers

1. Standard: To BS EN 1866-3
2. Manufacturer:
 - 2.1. Product reference:

37 Dry powder mobile extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

38 Foam mobile extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

39 Water mobile extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

40 Wet chemical mobile extinguishers

1. Standard:
2. Manufacturer:
 - 2.1. Product reference:

41 Fire blankets – light-duty

1. Standard: To BS EN 1869.
2. Manufacturer:
 - 2.1. Product reference:

45 Fire buckets

1. Manufacturer:
 - 1.1. Product reference:
2. Sand:

Execution

61 Installing portable fire extinguishers

1. Mounting height above finished floor level:

65 Installing fire blankets

1. Mounting height above finished floor level:

67 Installing fire buckets

1. Mounting height above finished floor level:
2. Contents:

Completion

91 Cleaning

1. Protective wrappings:
2. Cleaning:

92 Testing

1. Test standard: To BS 5603-0.
2. Test times:
3. Notice for testing (minimum):

93 Training

1. Training:
2. Fire brigade:

94 Maintenance

1. Servicing:
2. Maintenance standard: To BS 5603-0.

Ω End of Section

P11

Foamed/ fibre/ bead cavity wall insulation

To be read with preliminaries/ general conditions.

10 Survey of existing wall

1. Timing: Before starting insulation work.
2. Purpose: To confirm suitability for filling.
3. Report: Submit, stating:
 - 3.1. Form of construction, materials used.
 - 3.2. General condition of walls.
 - 3.3. Thickness of walls.
 - 3.4. Width and condition of cavity.
 - 3.5. Exposure to wind driven rain.
 - 3.6. Nature and extent of remedial work and other work required to ensure suitability.
 - 3.7. Any other information considered relevant.

20 Remedial work to existing walls

1. Responsibility:
2. Work to be carried out:
3. Approval: Obtain before starting insulation work.

25 Suitability of walls

1. Suitability: Check.
2. Timing: Before and during filling of cavities.
3. Defects: Report immediately.

50 Injected cavity fill

1. Manufacturer:
 - 1.1. Product reference:
2. Third-party certification:
3. Material:
4. Recycled content:
5. Installer:

55 Polyurethane foam cavity wall stabilization system

1. Manufacturer:
 - 1.1. Product reference:
2. Standard:
3. Installation standard: To BS 7456.
4. Installer: Approved in accordance with the British Board of Agrément Surveillance Scheme.
5. Removal of corroded ties:
6. Location and spacing of stainless steel anchors:

70 Gaps and openings

1. **Gaps:** Seal with tightly packed mineral wool to prevent loss of fill and fulfil any fire-stopping requirements.
2. **Openings:** Fit approved sleeve to keep openings permanently clear.
3. **Air bricks/ grilles of untrunked vents:** Remove and seal openings into cavity.

75 Injection holes

1. **Arrangement:** Form neatly to a regular pattern and to sizes recommended by cavity fill manufacturer.
2. **Before commencing filling of each wall:** Form all holes in that wall.
3. **Precautions:** Avoid damage to dpcs, cavity trays, flues, etc. Prevent debris falling into cavity.

80 Making good

1. **Blockages:** Remove from vents and refix or replace any air bricks.
2. **Injection holes:** Fill, replacing existing materials where possible.
 - 2.1. **Finished appearance:** Obtain approval of first few holes before completing the remainder.

85 Flues with no appliance

1. **Blockages:** Remove.
2. **Smoke test:** Carry out if full inspection cannot be made.
 - 2.1. **Purpose:** To ensure there is no leakage of gases from flue walls/ joints.

90 Flues with an appliance fitted

1. **Blockages:** Remove and retest until performance is satisfactory.
2. **Test:** Before and after filling cavities. Give notice before testing.
 - 2.1. **Purpose:** To ensure there is no leakage of gases from flue walls/ joints.

95 Documentation

1. **Certificates, records, guarantees and other documents:** Submit on completion.

Ω End of Section

P12

Fire-stopping systems

General

10 Fire-stopping to service penetrations

1. Description:
2. Fire performance:
3. Penetration seal:
 - 3.1. Size:
4. Gap sealer:
5. Capping sealant:
 - 5.1. Colour:
6. Environmental performance:
7. Verification
 - 7.1. Submittals:
 - 7.2. Timing:

16 Linear gap sealing

1. Description:
2. Fire performance:
3. Gap width or height (nominal):
4. Gap filler:
5. Capping sealant:
 - 5.1. Colour:
6. Environmental performance:
7. Verification
 - 7.1. Submittals:
 - 7.2. Timing:

17 Fire performance

1. Description:
2. Resistance to fire:
3. Reaction to fire:
4. Smoke resistance
 - 4.1. Air leakage rate (maximum):
5. Verification
 - 5.1. Submittals:
 - 5.2. Timing:

Products

30 Product certification

1. Certification:
2. Acceptable evidence:

34 Intumescent mastic

1. Manufacturer:
 - 1.1. Product reference:
2. Environmental performance
3. Verification:
 - 3.1. Submittals:
 - 3.2. Timing:

35 Flexible intumescent gap sealers

1. Manufacturer:
 - 1.1. Product reference:
2. Strip width:
3. Environmental performance:
4. Verification
 - 4.1. Submittals:
 - 4.2. Timing:

36 Intumescent foam fillers

1. Manufacturer:
 - 1.1. Product reference:
2. Environmental performance:
3. Verification
 - 3.1. Submittals:
 - 3.2. Timing:

37 Intumescent mortars

1. Manufacturer:
 - 1.1. Product reference:
2. Environmental performance:
3. Verification
 - 3.1. Submittals:
 - 3.2. Timing:

38 Fire-resisting mortars

1. Manufacturer:
 - 1.1. Product reference:
2. Environmental performance:
3. Verification
 - 3.1. Submittals:
 - 3.2. Timing:

39 Intumescent putties

1. Manufacturer:
 - 1.1. Product reference:
2. Environmental performance:

3. Verification
 - 3.1. Submittals:
 - 3.2. Timing:

40 Mineral wool rigid batts

1. Manufacturer:
 - 1.1. Product reference:
2. Standard: To [BS EN 13162](#).
3. Surface treatment:
4. Environmental performance:
5. Verification
 - 5.1. Submittals:
 - 5.2. Timing:

43 Pipe collars

1. Manufacturer:
 - 1.1. Product reference:
2. Type:
3. Environmental performance:
4. Verification
 - 4.1. Submittals:
 - 4.2. Timing:

46 Sealant-backing materials

1. Manufacturer:
 - 1.1. Product reference:
2. Environmental performance:
3. Verification
 - 3.1. Submittals:
 - 3.2. Timing:

47 Sealants

1. Manufacturer:
 - 1.1. Product reference:
2. Type:
3. Environmental performance:
4. Verification
 - 4.1. Submittals:
 - 4.2. Timing:

Execution

61 Third-party-certified installers

1. Certification:
2. Acceptable evidence:

62 Workmanship generally

1. Gaps:
2. Adjacent surfaces:

63 Installing flexible intumescent gap sealer

1. Fitting of strips:
2. Shrink-wrapping:
3. Joints
 - 3.1. Ends of strips:
 - 3.2. Joints between strips:

64 Applying intumescent foam

1. New joints:
2. Old joints:
3. Priming:
4. Application:
5. Trimming:

65 Applying intumescent mortar

1. Sequence:
2. Loose dust and combustible materials:
3. Shuttering:
4. Temperature:
5. Powder:water ratio:
6. Mortar cure:
7. Shuttering:

66 Installing mineral wool batts

1. Installing batts:
 - 1.1. Brackets:
 - 1.1.1. Bracket fixing:
2. Face of batts:
3. Joints between batts:
4. Gaps between services and barrier:

67 Applying intumescent putty

1. Sequence:
2. Loose dust and combustible materials:
3. Putty cure:

68 Fixing pipe collars

1. Collar fixing:
2. Gap around collar:
3. Length of wraps:

71 Inserting sealant-backing material

1. Preparation:
2. Installation:

73 Applying sealants generally

1. Application:

74 Applying capping sealant

1. Preparation:
2. Priming:
3. Depth of sealant:
4. Temperature:

Completion

91 Cleaning

1. Masking tapes:
2. Cleaning:

92 Inspection

1. Notice for inspection (minimum):

Ω End of Section

P21

Door/ window ironmongery

To be read with preliminaries/ general conditions.

3 Quantities and locations

1. Quantities and locations of ironmongery:
2. Fixing: As sections L10 and L20.

4 Ironmongery range selected by contractor

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

5 Ironmongery from single proprietary range

1. Manufacturer:
 - 1.1. Product reference:
2. Principal material/ finish:
3. Items unavailable within selected range: Submit proposals.

6 Samples

1. General: Before placing orders with suppliers submit labelled samples of the following:
 - 1.1. Conformity:

7 Single-axis door hinges

1. Description:
2. Standard: To [BS EN 1935](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Size:
6. Material/ finish:
7. Hinge grade:
8. Other requirements:
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

8 Door hinges

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:

5. Material/ finish:
6. Other requirements:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

10 Door track and running gear

1. Description:
2. Standard: To [BS EN 1527](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Track type:
5. Category of door:
6. Opening dimensions:
7. Accessories:
8. Operation: Smooth and quiet.
 - 8.1. Safety: Doors not able to come off track when in use.
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

12 Controlled door closers

1. Description:
2. Standard: To [BS EN 1154](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Power size:
5. Other functions:
6. Casing finish:
7. Operational adjustment
 - 7.1. Variable power: Matched to size, weight and location of doors. Fully closing latched doors and holding unlatched doors closed.
 - 7.2. Closing against smoke seals of fire doors: Positive. No gaps.
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

14 Floor springs

1. Description:
2. Standard: To [BS EN 1154](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Power size:
5. Other functions:
6. Material/ finish:

7. Operational adjustment
 - 7.1. Variable power: Matched to size, weight and location of doors. Fully closing latched doors and holding unlatched doors closed.
 - 7.2. Closing against smoke seals of fire doors: Positive. No gaps.
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

16 Electromagnetic hold-open/ swing-free devices

1. Description:
2. Standard: To [BS EN 1155](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Material/ finish:
6. Electric supply:
7. Means of release: Alarm or failure of power supply.
8. Test switch: In a convenient position adjacent to door.
9. Operational adjustment of integral closer
 - 9.1. Variable power: Matched to size, weight and location of doors. Fully closing latched doors and holding unlatched doors closed.
 - 9.2. Closing against smoke seals of fire doors: Positive. No gaps.
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

18 Door coordinators

1. Description:
2. Standard: To [BS EN 1158](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Material/ finish:
5. Application: To all single-swing double doors with rebated meeting stiles and fitted with self-closers.
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

19 Door dampers

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Leaf:
 - 4.1. Width:
 - 4.2. Thickness:

5. Material/ finish:
6. Colour:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

20 Uncontrolled door closers

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Material/ finish:
5. Action:
6. Operation: Hold unlatched doors closed under normal conditions.
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

22 Thief-resistant door locks

1. Description:
2. Standard:
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Backset:
6. Material/ finish:
7. Keying:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

24 Door locks

1. Description:
2. Standard: To [BS EN 12209](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Backset:
6. Material/ finish:
7. Keying:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

26 Special function door locks

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Backset:
5. Material/ finish:
6. Keying:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

28 Door latches

1. Description:
2. Standard: To [BS EN 12209](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Backset:
6. Material/ finish:
7. Latch spring strength: Select to prevent unsprung lever handles drooping.
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

30 Emergency exit devices

1. Description:
2. Standard: To [BS EN 179](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Material/ finish:
6. Additional requirements:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

32 Panic exit devices

1. Description:
 2. Standard: To [BS EN 1125](#).
 3. Manufacturer:
 - 3.1. Product reference:
 4. Type:
 5. Material/ finish:
 6. Additional requirements:
- Axis Architecture Limited
19-09-2025

7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

34 Door bolts

1. Description:
2. Standard: To [BS EN 12051](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Size:
6. Material/ finish:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

36 Privacy indicator bolts

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Material/ finish:
5. Emergency release facility: Required.
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

38 Lever handles

1. Description:
2. Standard: To [BS EN 1906](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Style:
5. Size:
6. Material/ finish:
7. Mounting:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

40 Door knobs

1. Description:
2. Standard: To [BS EN 1906](#).
3. Manufacturer:
 - 3.1. Product reference:

4. Style:
5. Size:
6. Material/ finish:
7. Mounting:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

42 Pull handles

1. Description:
2. Standard: To [BS 8424](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Shape:
5. Diameter:
6. Distance between centres:
7. Material/ finish:
8. Mounting:
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

44 Push plates

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Size:
4. Material/ finish:
5. Mounting:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

46 Kick plates

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Size:
4. Material/ finish:
5. Mounting:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

48 Escutcheons

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Material/ finish:
4. Keyhole type:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

50 Door stops

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Verification:
 - 4.1. Submittals:
 - 4.2. Timing:

52 Letter plates

1. Description:
2. Standard: To [BS EN 13724](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Operation:
5. Size:
6. Material/ finish:
7. Features:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

54 Internal letter flaps

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

56 Door holders

1. Description:

2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

58 Door-mounted coat hooks

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Material/ finish:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

60 Threshold weatherstrip

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

62 Weatherstrip to door head and jambs

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

64 Door viewers

1. Description:
2. Manufacturer:
 - 2.1. Product reference:

3. Angle of vision:
4. Material/ finish:
5. Viewer body diameter:
6. Door thickness:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

66 Door-mounted air transfer grilles

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

70 Single-axis window hinges

1. Description:
2. Standard: To [BS EN 1935](#).
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Size:
6. Material/ finish:
7. Hinge grade:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

72 Window hinges

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

74 Sliding friction stay window hinges

1. Description:

2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

76 Sash window spiral balances

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Sash heights:
4. Sash weight:
5. Type:
6. Material/ finish:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

78 Boxed sash window hanging fittings

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Axle pulleys:
4. Cords:
5. Weights:
 - 5.1. Matched to weights of glazed sashes.
6. Other requirements:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

80 Sash window fasteners

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

82 Casement/ sash window mortice bolts

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Additional requirements:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

84 Casement window handles

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Material/ finish:
5. Features:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

86 Casement window stays

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Features:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

88 Sash window lift handles

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

90 Sash window eyes

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

92 Weatherstrip to windows

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Size:
5. Material/ finish:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

Ω End of Section

Q37

Green roofs

General

110 Intensive green roof

1. Description:
2. Roof type:
 - 2.1. Substrate:
 - 2.2. Slope:
3. Waterproofing:
4. Thermal insulation:
5. Protection:
6. Moisture control layers:
7. Growing medium:
 - 7.1. Depth:
8. Vegetation:
9. Accessories:

120 Simple intensive green roof

1. Description:
2. Roof type:
 - 2.1. Substrate:
 - 2.2. Slope:
3. Waterproofing:
4. Thermal insulation:
5. Protection:
6. Moisture control layers:
7. Growing medium:
 - 7.1. Depth:
8. Vegetation:
9. Accessories:

130 Extensive green roof

1. Description:
2. Roof type:
 - 2.1. Substrate:
 - 2.2. Slope:
3. Waterproofing:
4. Thermal insulation:
5. Protection:
6. Moisture control layers:
7. Growing medium:
 - 7.1. Depth:
8. Vegetation:

9. Accessories:

140 Paving and decking systems

1. Type:
2. Paving support:

Performance

210 Contractor's design of green roofs

1. Design responsibility:
2. Structural and fire requirements
 - 2.1. Generally: As section B50 and B05.
 - 2.2. Modifications:
 - 2.3. Design: Complete the design in accordance with the designated code of practice to satisfy specified performance criteria.
3. Functional requirements
 - 3.1. Performance:
4. Additional requirements:
5. Design and production information:
6. Timing of submissions:

255 Maximum permitted green roof loads

1. Permanent loads
 - 1.1. Green roof layers:
2. Imposed loads
 - 2.1. Actions:
 - 2.2. Vegetation:
 - 2.3. Allowance for additional loads during construction:
3. Service loads:
4. Requirement: Restrict site activities to ensure that design loads are not exceeded, or submit proposals for temporary supports.

Products

310 Inverted roof insulation

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type: Extruded polystyrene board to BS EN 13164.
 - 3.1. Compressive strength:
4. Edges:
5. Integral topping:
6. Thickness:

320 Root barrier

1. Description:
2. Manufacturer:

2.1. Product reference:

3. Material:

3.1. Thickness:

325 Slip layer

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material: Two layers polyethylene sheet

3.1. Thickness of each layer:

330 Protection layer

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

3.1. Thickness:

335 Separation layer

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

3.1. Thickness:

340 Moisture retention mat

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

3.1. Capacity:

350 Drainage layer

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

3.1. Depth:

4. Infill:

355 Combined layers

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Type:

4. Material:

4.1. Depth:

5. Other requirements:

360 Filter membrane

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

3.1. Mass:

400 Vegetation blanket

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Planting mix:

3.1. Thickness:

4. Vegetation coverage (minimum): 75%.

410 Anti-erosion mat

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

420 Edge-retaining profile

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

4. Height:

430 Inspection chambers

1. Description:

2. Manufacturer:

2.1. Product reference:

3. Material:

4. Size:

4.1. Depth:

5. Access covers:

6. Features:

440 Fire breaks

1. Description:

2. Material:

3. Submit proposals

4. Depth:

Axis Architecture Limited

19-09-2025

5. Width:

450 Roof drainage outlets

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Material:
4. Size:
5. Fixing:

460 Support pedestals

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Material:
5. Dimensions:
6. Additional pedestals:
7. Accessories:

Execution

710 Installation generally

1. Preparation: Clear all surfaces of debris.
 - 1.1. Timing: After certification of waterproof membrane integrity.
 - 1.2. Surface condition: Visually inspect waterproof membrane, report any damage.
2. Faults in waterproof membrane: Report.
3. Contamination: Do not use materials detrimental to healthy plant growth.
4. Storage: Do not overload.
 - 4.1. Point loads: Avoid.
5. Outlets: Do not block.
 - 5.1. Outlet grilles: Installed.

720 Adverse weather

1. Unfinished work: Secure from damage and wind uplift.
2. Conditions: Do not install or work with frozen materials.

730 Installation of inverted roof insulation

1. Preparation: Clear roof of other trades.
2. Condition of substrate: Clean.
3. Fitting: Loose lay.
4. Joints: Butt together.
 - 4.1. End joints: Stagger.
5. Cutting: Minimize.
 - 5.1. Perimeters and upstands: Fit full sized pieces.
 - 5.2. Penetrations: Cut cleanly and fit closely.

6. **Stability:** Springing and rocking not permitted.
7. **Protection:** Cover to prevent wind uplift.

740 Root barrier installation

1. **Joints:** Minimize.
 - 1.1. **Overlaps (minimum):**
2. **Upstands:** Extend to top of growing medium.

750 Protection layer installation

1. **Joints:** Minimize.
 - 1.1. **Overlaps (minimum):**
2. **Upstands:** Extend to top of growing medium.

755 Separation layer installation

1. **Joints:** Minimize.
 - 1.1. **Overlaps (minimum):**
2. **Upstands:** Extend to top of growing medium.

760 Moisture retention mat installation

1. **Joints:** Minimize.
 - 1.1. **Overlaps (minimum):**
2. **Upstands:** Fit closely around penetrations and outlets.

770 Drainage layer installation

1. **Extent:** Continuous over entire roof area.
2. **Fitting:**
3. **Upstands:** Fit closely around penetrations and outlets.

780 Filter membrane installation

1. **Joints:** Minimize.
 - 1.1. **Overlaps (minimum):**
2. **Fitting:**
3. **Upstands:** Extend to top of growing medium.

790 Growing medium installation

1. **Handling:** Minimize.
 - 1.1. **Conditions:** Handle in the driest condition possible. Do not handle or install when wet or frozen.
2. **Layers**
 - 2.1. **Depth (maximum):** 150 mm.
 - 2.2. **Sequence:** Gently firm each layer before spreading the next.

800 Vegetation blanket installation

1. **Handling blankets**
 - 1.1. **Timing:** Lay within 36 hours of lifting from growing position.
 - 1.2. **Excessive stacking:** Not permitted.

- 1.3. **Material loss (maximum):** 3% of total surface area.
2. **Growing medium condition:** Thoroughly watered.
3. **Laying blankets**
 - 3.1. **Dry, damaged, frosty or waterlogged blankets:** Do not lay.
 - 3.2. **Orientation:** Diagonal or perpendicular to slope of roof.
 - 3.3. **Joints:** Stagger. Butt together or slightly overlap to prevent gaps. Do not stretch blankets. Secure with biodegradeable pegs.
 - 3.4. **Edges:** Finish with whole blankets.
 - 3.5. **Consolidation:** Firm as laying proceeds to ensure full contact with the growing medium. Do not use rollers.
4. **Dressing:**
 - 4.1. **Application:** Brush in to fill joints.
5. **Watering:** Thorough, immediately after laying and dressing.

810 Anti-erosion mat installation

1. **Joints:** Minimize.
 - 1.1. **Overlaps (minimum):**
2. **Fixing:**
 - 2.1. **Frequency:**
3. **Mat durability:** Until vegetation is firmly rooted to growing medium.

820 Edge-retaining profile installation

1. **Cutting:** Neat, accurate and without spalling.
 - 1.1. **Junctions:** vertical, secured using proprietary connectors.
2. **Position:** True to line and level. Smooth continuous lines.
3. **Fixing:**

830 Inspection chamber installation

1. **Location:** Install centrally over drain outlet.
 - 1.1. **Orientation:** Align parallel with adjacent features.
2. **Bedding:**
3. **Backfill:**
4. **Surround:**

840 Pedestal installation

1. Ensure that surface to accept pedestals is clean and free of debris.
2. **Setting out:** Mark centre-point of pedestal on substrate surface, with perpendicular guidelines to ensure square layout.
 - 2.1. **Orientation:** Align parallel with adjacent features.
 - 2.2. **Spacing:**
3. **Overall movement tolerance (maximum):** 3 mm.

Completion

910 Inspection

1. **Timing:** Before handover.
 - 1.1. **Give notice (minimum):** Three days.

920 Completion

1. **General:** Leave the works in a clean, tidy condition.
2. **Surfaces:** Clean immediately before handover.
3. **Outlets:** Clean and clear of obstructions.
4. **Completed green roof:** Protect from adjacent or high level working.

930 Documentation

1. **Timing:** Submit at handover.
2. **Contents**
 - 2.1. Growing medium declaration of analysis.
 - 2.2. Manufacturers' guarantees and warranties.
 - 2.3. Procedures for maintenance of the green roof.
 - 2.4. Record drawings showing the location of planting and associated features.
3. **Number of copies:**

Ω End of Section

S90

Hot and cold water supply systems

General

110 Mains cold water supply

1. Description:
2. Estimated daily consumption:
3. Position of incoming mains water supply:
4. Drinking water outlets:
5. Water meters:
6. Water softener:
7. Pipework:
 - 7.1. Accessories:
8. Valves:
9. Insulation:
10. Sanitary appliances:
11. Control:
12. Accessories:
13. Completion:
14. Verification:
 - 14.1. Submittals:
 - 14.2. Timing:

120 Storage cold water supply

1. Description:
2. Estimated daily consumption:
3. Storage capacity:
4. Drinking water outlets:
5. Position of mains water supply:
6. Water meters:
7. Storage cistern:
8. Water softener:
9. Pipework:
10. Accessories:
11. Valves:
12. Insulation:
13. Sanitary appliances:
14. Control:
15. Accessories:
16. Completion:
17. Verification:
 - 17.1. Submittals:
 - 17.2. Timing:

130 Instantaneous hot water supply

1. Description:
2. Position of water heater:
3. Instantaneous water heater:
4. Outlets:
5. Capacity:
6. Control:
7. Pipework:
 - 7.1. Accessories:
8. Valves:
9. Insulation:
10. Sanitary appliances:
11. Accessories:
12. Completion:
13. Verification:
 - 13.1. Submittals:
 - 13.2. Timing:

140 Direct hot water storage supply

1. Description:
2. Position of unit:
3. Direct hot water storage unit:
 - 3.1. System:
4. Capacity:
5. Pipework:
 - 5.1. Accessories:
6. Valves:
7. Pump:
8. Insulation:
9. Sanitary appliances:
10. Controls:
11. Accessories:
12. Completion:
13. Verification:
 - 13.1. Submittals:
 - 13.2. Timing:

150 Indirect hot water storage supply

1. Description:
2. Capacity:
3. Primary heat source:
 - 3.1. Primary:
4. Indirect hot water storage unit:
5. Pipework:

- 5.1. Accessories:
- 6. Valves:
- 7. Pump:
- 8. Insulation:
- 9. Sanitary appliances:
- 10. Controls:
- 11. Accessories:
- 12. Completion:
- 13. Verification:
 - 13.1. Submittals:
 - 13.2. Timing:

160 Rainwater/ grey water recycling system

- 1. Description:
- 2. Storage tank:
- 3. Connections
 - 3.1. Incoming supply connection:
 - 3.2. Outgoing supply connection:
 - 3.3. Mains cold water supply:
 - 3.4. Mains electricity supply:
- 4. Pipework:
 - 4.1. Accessories:
- 5. Valves:
- 6. Pump:
- 7. Sanitary appliances:
- 8. Control unit:
- 9. Accessories:
- 10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

System performance

210 Design

- 1. Description:
- 2. Design:
- 3. Standard:
- 4. Proposals:
- 5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

220 Cold water supply

- 1. Incoming mains water supply
 - 1.1. Location:

- 1.2. Site factors:
2. Storage capacity:
3. Drinking water outlets:
4. Pumped supply:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

230 Instantaneous hot water supply

1. Type:
2. Water supply:
3. Verification:
 - 3.1. Submittals:
 - 3.2. Timing:

240 Centralized hot water storage

1. Storage capacity
 - 1.1. Quantity per person per day:
 - 1.2. Number of people:
2. Primary heat source:
3. Temperature range of stored hot water:
4. Water supply:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

250 Pipework sizes

1. Sizing:
2. Performance
 - 2.1. Water velocity (maximum):
 - 2.2. Filling time (maximum) for cold water storage cistern:
3. Verification:
 - 3.1. Submittals:
 - 3.2. Timing:

260 Draw-off requirements

1. Baths (G³/₄)
 - 1.1. Type of supply:
 - 1.2. Discharge rate (design):
2. Baths (G1)
 - 2.1. Type of supply:
 - 2.2. Discharge rate (design):
3. Bidets
 - 3.1. Type of supply:
 - 3.2. Discharge rate (design):

4. Dishwashing machines
 - 4.1. Type of supply:
 - 4.2. Discharge rate (design):
5. Handbasins (pillar or mixer taps)
 - 5.1. Type of supply:
 - 5.2. Discharge rate (design):
6. Handbasins (spray or spray mixer taps)
 - 6.1. Type of supply:
 - 6.2. Discharge rate (minimum):
7. Kitchen sinks (G½)
 - 7.1. Type of supply:
 - 7.2. Discharge rate (design):
8. Kitchen sinks (G¾)
 - 8.1. Type of supply:
 - 8.2. Discharge rate (design):
9. Kitchen sinks (G1)
 - 9.1. Type of supply:
 - 9.2. Discharge rate (design):
10. Shower heads
 - 10.1. Type of supply:
 - 10.2. Discharge rate (minimum):
11. Urinal cisterns (each position served)
 - 11.1. Type of supply:
 - 11.2. Discharge rate (design):
12. Urinal flushing valves
 - 12.1. Type of supply:
 - 12.2. Discharge rate (design):
13. Washbasins (pillar or mixer taps)
 - 13.1. Type of supply:
 - 13.2. Discharge rate (design):
14. Washing machines
 - 14.1. Type of supply:
 - 14.2. Discharge rate (design):
15. WC cisterns (to fill in 2 minutes)
 - 15.1. Type of supply:
 - 15.2. Discharge rate (design):
16. WC pressure flushing valves
 - 16.1. Type of supply:
 - 16.2. Discharge rate (design):
17. WC flushing troughs
 - 17.1. Type of supply:
 - 17.2. Discharge rate (design):
18. Verification:
 - 18.1. Submittals:

18.2. Timing:

270 Combustion air supply to gas appliances

1. Size:
2. Location:
3. Verification:
 - 3.1. Submittals:
 - 3.2. Timing:

Products

310 Dezincification

1. Fittings, pipework, equipment located below ground or in concealed or inaccessible locations:

315 Water meters

1. Description:
2. Standard:
3. Third-party certification:
4. Type:
5. Manufacturer:
 - 5.1. Product reference:
6. Size:
7. Features:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

320 Cisterns for non-potable water

1. Description:
2. Standard:
3. Third-party certification:
4. Size:
5. Manufacturer:
 - 5.1. Product reference:
6. Valves:
7. Insulation:
 - 7.1. Thickness:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

325 Cisterns for potable water

1. Description:
2. Standards:
3. Third-party certification:
4. Size:

5. Manufacturer:
 - 5.1. Product reference:
6. Valves:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

330 Water softeners

1. Description:
2. Third-party certification:
3. Manufacturer:
 - 3.1. Product reference:
4. Unsoftened supply:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

345 Evacuated tube solar collectors

1. Description:
2. Standards:
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Arrangement:
6. Total solar collector area:
7. Total solar collector output:
8. Number of collectors:
9. Controls
 - 9.1. Unit standards:
 - 9.2. Sensors:
 - 9.3. Accessories:
10. Expansion vessels:
11. Verification:
 - 11.1. Submittals:
 - 11.2. Timing:

347 Flat plate solar collectors

1. Description:
2. Standards:
3. Manufacturer:
 - 3.1. Product reference:
4. Type:
5. Arrangement:
6. Total solar collector area:
7. Total solar collector output:

8. Number of collectors:
9. Transparent cover:
10. Controls
 - 10.1. Unit standards:
 - 10.2. Sensors:
 - 10.3. Accessories:
11. Expansion vessels:
12. Verification:
 - 12.1. Submittals:
 - 12.2. Timing:

350 Instantaneous shower units, electric

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Rating:
6. Flow rate:
7. Accessories:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

360 Instantaneous water heaters, electric

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Type:
6. Rating:
7. Flow rate:
8. Casing finish:
9. Controls:
10. Accessories:
11. Verification:
 - 11.1. Submittals:
 - 11.2. Timing:

365 Instantaneous water heaters, gas-fired

1. Description:
2. Standard:
 - 2.1. Performance:
3. Third-party certification:

4. Manufacturer:
 - 4.1. Product reference:
5. Type:
6. Rating:
7. Flow rate:
8. Casing finish:
9. Controls:
10. Accessories:
11. Flue:
12. Verification:
 - 12.1. Submittals:
 - 12.2. Timing:

370 Direct hot water storage cylinders

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Hot water capacity:
6. Insulation:
7. Accessories:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

380 Direct-insulated combination units

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Hot water capacity:
6. Accessories:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

390 Immersion heaters

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Type:

6. Rating:
7. Element length:
8. Mounting:
9. Thermostat:
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

400 Storage water heaters, electric

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Type:
6. Rating:
7. Flow rate:
8. Casing finish:
9. Controls:
10. Accessories:
11. Verification:
 - 11.1. Submittals:
 - 11.2. Timing:

405 Storage water heaters, gas-fired

1. Description:
2. Standard:
 - 2.1. Performance:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Type:
6. Rating:
7. Flow rate:
8. Casing finish:
9. Controls:
10. Accessories:
11. Flue:
12. Verification:
 - 12.1. Submittals:
 - 12.2. Timing:

410 Indirectly heated unvented hot water storage

1. Description:
2. Standard:

3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Capacity:
6. Pressure:
7. Electric immersion heater:
8. Energy cut-out device:
9. Temperature relief valve:
10. Pressure relief/ expansion valve:
11. Pressure-reducing valve:
12. Back flow prevention:
13. Discharge pipe:
 - 13.1. Size:
14. Verification:
 - 14.1. Submittals:
 - 14.2. Timing:

420 Indirect hot water storage cylinders, double-feed

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Hot water capacity:
6. Insulation:
7. Accessories:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

425 Indirect hot water storage cylinders, single-feed

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Hot water capacity:
6. Insulation:
7. Accessories:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

430 Indirect-insulated combination units, double-feed

1. Description:

2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Hot water capacity:
6. Accessories:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

435 Indirect-insulated combination units, single-feed

1. Description:
2. Standard:
3. Third-party certification:
4. Manufacturer:
 - 4.1. Product reference:
5. Hot water capacity:
6. Accessories:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

450 Metal flue pipes

1. Description:
2. Standard:
3. Manufacturer:
 - 3.1. Product reference:
4. Material:
5. Internal and external finish:
6. Colour:
7. Fittings:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

460 Canned rotor water pumps

1. Description:
2. Third-party certification:
3. Type:
4. Manufacturer:
 - 4.1. Product reference:
5. Flow rate:
6. System resistance:
7. Electrical supply:
8. Speed control:

- 9. Accessories:
- 10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

470 Close-coupled in-line pumps

- 1. Description:
- 2. Third-party certification:
- 3. Type:
- 4. Manufacturer:
 - 4.1. Product reference:
- 5. Flow rate:
- 6. System resistance:
- 7. Electrical supply:
- 8. Speed control:
- 9. Accessories:
- 10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

500 Copper pipework, chromium-plated

- 1. Description:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Standard:
 - 3.1. Finish:
- 4. Third-party certification:
- 5. Temper:
- 6. Wall thicknesses (nominal):
- 7. Jointing:
 - 7.1. Finish:
- 8. Connections to appliances and equipment:
 - 8.1. Compression fittings:
 - 8.2. Fittings with threaded ends:
- 9. Supports:
- 10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

510 Copper pipework for general use

- 1. Description:
- 2. Manufacturer:
 - 2.1. Product reference:
- 3. Standard:
- 4. Third-party certification:

5. Temper:
6. Finish:
 - 6.1. Colour:
7. Wall thickness (nominal):
8. Jointing generally:
9. Connections to appliances and equipment:
 - 9.1. Compression fittings:
 - 9.2. Fittings with threaded ends:
10. Supports:
11. Verification:
 - 11.1. Submittals:
 - 11.2. Timing:

515 Copper pipework for underground use

1. Standard:
2. Third-party certification:
3. Manufacturer:
 - 3.1. Product reference:
4. Temper:
5. Finish:
 - 5.1. Type:
 - 5.2. Colour:
6. Wall thickness (nominal):
7. Jointing generally:
8. Connections to appliances and equipment:
 - 8.1. Compression fittings:
 - 8.2. Fittings with threaded ends:
9. Supports:
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

520 Polyethylene pipework for underground use

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:
4. Third-party certification:
5. Jointing:
6. Colour: Blue
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

530 Stainless steel pipework

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:
4. Third-party certification:
5. Jointing:
6. Fluxes: Do not use fluxes containing chlorides or borides
 - 6.1. Type:
7. Supports:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

540 Thermoplastics pipework

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:
4. Third-party certification:
5. Jointing:
6. Supports:
7. Verification:
 - 7.1. Submittals:
 - 7.2. Timing:

560 Warning/ overflow pipes to cisterns

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Material:
4. Jointing:
5. Minimum OD:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

565 Trace heating tape for pipework

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Application:
4. Pipe material:
5. Tape:
6. Electrical voltage:

7. Accessories:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

570 Insulation to pipework

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Material:
4. Function:
5. Thermal conductivity:
6. Emissivity:
7. Thickness (minimum):
8. Protection:
 - 8.1. Material:
 - 8.2. Colour:
9. Fire performance (minimum):
10. Verification:
 - 10.1. Submittals:
 - 10.2. Timing:

580 Masking plates

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Locations:
4. Type:
5. Material:
6. Finish:
7. Fixing:
8. Verification:
 - 8.1. Submittals:
 - 8.2. Timing:

590 Pipe ducts

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Types:
4. Size:
5. Pipe duct sealant:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

600 Rainwater/ grey water recycling system control units

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Accessories:
4. Verification:
 - 4.1. Submittals:
 - 4.2. Timing:

610 Timers

1. Description:
2. Standards:
3. Manufacturer:
 - 3.1. Product reference:
4. Features:
5. Verification:
 - 5.1. Submittals:
 - 5.2. Timing:

615 Thermostats

1. Description:
2. Standards:
3. Third-party certification:
4. Type:
5. Manufacturer:
 - 5.1. Product reference:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

620 Valves generally

1. Types:
2. Third-party certification:
3. Control of valves:
4. Verification:
 - 4.1. Submittals:
 - 4.2. Timing:

625 Ball valves

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:
4. Material:
5. Operation:

630 Double-check valve assemblies

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:

640 Draining taps

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:

650 Flow-reducing/ servicing valves

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Type:
4. Material:
5. Finish:

660 Gate valves

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:

670 Stop valves and draw-off taps, above ground

1. Description:
2. Manufacturer:
 - 2.1. Product reference:

675 Stop valves, underground

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:

680 Thermostatic mixing valves

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Standard:
4. Third-party certification:

690 Flush control devices

1. Description:
2. Manufacturer: <https://nbs.fyi/W2U02q>
 - 2.1. Product reference:
3. Third-party certification:
4. Type:
5. Operation:
6. Verification:
 - 6.1. Submittals:
 - 6.2. Timing:

690 Flush control devices Type A

1. Manufacturer: [Armitage Shanks](#)
 - 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:+4418271228822)
 - 1.1.3. Web: www.idealspec.co.uk
 - 1.1.4. Email: info@thebluebook.co.uk
 - 1.2. Product reference: [Septa Pro P1 pneumatic metal dual flushplate](#)
2. Materials
 - 2.1. Body: Stainless Steel.
 - 2.2. Finish and colour: Self-finish.
3. Operation: Push-button.
4. Controller: Surface-mounted.

695 Water coolers

1. Description:
2. Manufacturer:
 - 2.1. Product reference:
3. Third-party certification:
4. Type:
5. Flow rate:
6. Temperature of delivered water:
7. Water inlet:
8. Power supply:
9. Verification:
 - 9.1. Submittals:
 - 9.2. Timing:

Execution

710 Stripping out

1. Extent of stripping out:

715 Installation generally

1. Installation:
2. Performance:
3. Fixing of equipment, components and accessories:
4. Preparation:
5. Corrosion resistance:

718 Installing water meters

1. Standard:

720 Installing cisterns

1. Outlet positions:
2. Access:

725 Installing warning/ overflow pipes to cisterns

1. Difference (minimum) between normal water level and overflow level
 - 1.1. Cold water storage cisterns:
 - 1.2. Feed and expansion cisterns:
2. Vertical distance (minimum) of water supply inlet above overflow level:
3. Fall (minimum):
4. Installation:
5. Insulation:

727 Installing vent pipes over cisterns

1. Route:
2. Internal diameter (minimum):

730 Installing water softeners

1. Position:
2. Supply continuity:
3. Drains:
4. Back siphonage:

745 Installing solar panels

1. Orientation:
2. Pitch:
3. Free standing mounting frame:
4. Roof-mounted collectors:

750 Installing gas-fired instantaneous water heaters

1. Label:

760 Unvented hot water storage discharge pipes

1. Fall (minimum):
2. Discharge:
 - 2.1. Discharge point:

770 Installing flue pipe

1. Joints and bends:
2. Slope:
3. Joints:
 - 3.1. Seals:
4. Expansion and contraction:
5. Fire safety:
6. Roof junction:

780 Balanced flue terminal

1. Opening in external wall:
2. Flue guard:

790 Pipework installation

1. Appearance:
2. Pipework finish:
3. Concealment:
4. Access:
5. Arrangement of hot and cold pipework:
6. Electrical equipment:
7. Insulation allowance:

800 Pipework fixing

1. Fixing:
2. Joints, bends and offsets:
3. Pipework support:
4. Drains and vents:
5. Thermal expansion and contraction:
6. Dirt, insects or rodents:

805 Installing thermoplastics pipework

1. Primary heating circuits:

810 Supports for copper and stainless steel pipework

1. Spacing:
 - 1.1. 15 and 22 mm pipe OD:
 - 1.2. 28 and 35 mm pipe OD:
 - 1.3. 42 and 54 mm pipe OD:
2. Additional supports:

815 Supports for exposed thermoplastics pipework

1. Spacing:
 - 1.1. Up to 16 mm pipe OD:
 - 1.2. 17-25 mm pipe OD:
 - 1.3. 26-32 mm pipe OD:
2. Additional supports:

820 Bends in thermoplastics pipework

1. Bends: Do not use 90° elbow fittings instead of 90° bends
2. Large radius bends:
3. 90° bends:
4. Small radius bends:

830 Pipework spacing

1. Clearance (minimum) to face of wall-fixed pipes or pipe insulation
 - 1.1. From floor:
 - 1.2. From ceiling:
 - 1.3. From wall:
 - 1.4. Between pipes:
 - 1.5. From electrical conduit, cables, etc.:

840 Joints in copper and stainless steel pipework

1. Preparation:
2. Joints:
3. Bends:
4. Adaptors for connecting dissimilar materials:
5. Substrate and plastics pipes and fittings:
6. Flux residue:

841 Capillary joints in plastics-coated pipework

1. Plastics coating:

845 Joints in thermoplastics pipework

1. Standard:
2. Fittings and accessories for joints:
3. Preparation:
4. Joints:
5. Compression fittings:

850 Pipework entering buildings

1. Depth:
2. Pipework rising into building within 750 mm of the external face of the external wall or passing through a ventilated void below floor level:
3. Ends of pipe ducts:

855 External supply pipework

1. Requirement:

860 Installation of insulation to pipework

1. Standard:
2. Cold water pipework:
3. Hot water pipework:
4. Protection:
5. Appearance:
6. Timing:

865 Installing insulation to cisterns

1. Standard:
2. General:
3. Access cover:
4. Underside of cistern:

870 Installing valves

1. Isolation and regulation valves:
2. Access:
3. Connection to pipework:

Completion

910 Flushing and filling

1. Standard:

920 System disinfection

1. Disinfection:

930 Testing

1. Standard:
2. Notice (minimum):
3. Preparation:
4. Leak testing:
5. Pressure testing:
 - 5.1. Systems fed directly from the mains, and systems downstream of a booster pump:
 - 5.2. Systems fed from storage:
 - 5.3. Inaccessible or buried pipework:

940 Commissioning

1. Standard:
2. Equipment:
3. Outlets:

950 Testing service pipework

1. Test method:
2. Test criterion:

960 Documentation

1. Manufacturers' operating and maintenance instructions:
2. System operating and maintenance instructions:
3. Record drawings:

970 Operating tools

1. Tools:
2. Valve keys:

980 Labels

1. Valve labels:

995 Verification on completion

1. Requirement::
2. Method::
3. Submittals::
 - 3.1. Format::
 - 3.2. Timing::

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 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: Contractor to allow for designing full PV system. 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

270 Control of external luminaires

1. Individual control: Not required
2. Group control: Submit proposals

Products

312 Photovoltaic systems

1. Manufacturer: Submit proposals (Contractor's Design)
 - 1.1. Product reference: Submit proposals
2. Standards
 - 2.1. Photovoltaic modules: To the BS EN 61215 series of standards
 - 2.2. Junction boxes and switchgear assemblies: To [BS EN IEC 61439-1](#) and [BS EN IEC 61439-2](#)
 - 2.3. Surge protection devices: To [BS EN 61643-31](#)
3. Module mounting: Roof (integrated tiles)
4. Rating: Submit proposals
5. Colour: Submit proposals

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](#)

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

725 Final connections

1. Preliminary work: Gas supply to be capped off
2. Size: Determine
3. Length: Allow for equipment removal and maintenance

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 [ENA EREC G98](#)
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).
2. Appearance:

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