

Specification

Castle Quay, Banbury - Brethertons

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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:
 - 1.1. the structure or structures to be deconstructed/ demolished,
 - 1.2. the site on which the structure or structures stand, and
 - 1.3. the surrounding area.
2. Report and method statements: Submit, describing:
 - 2.1. Form, condition and details of the structure or structures, the site and the surrounding area.
 - 2.1.1. Extent: As drawings
 - 2.2. Type, location and condition of features of historical, archaeological, geological or ecological importance.
 - 2.3. Type, location and condition of adjoining or surrounding premises that might be adversely affected by removal of the structure or structures or by noise, vibration and/ or dust generated during deconstruction/ demolition.
 - 2.4. Identity and location of services above and below ground, including those required for the Contractor's use, and arrangements for their disconnection and removal.
 - 2.5. Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - 2.6. Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.7. Proposed programme of work, including sequence and methods of deconstruction/ demolition.
 - 2.8. Details of specific pre-weakening required.
 - 2.9. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.10. Arrangements for control of site transport and traffic.
 - 2.11. Special requirements: Details of services supplied by the Statutory Authority

10 Extent of deconstruction/ demolition

1. General: Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to levels indicated.

15 Bench marks

1. Unrecorded bench marks and other survey information: Give notice when found. Do not remove marks or destroy the fabric on which they are found.

25 Location of services

1. Services affected by the Works: Locate and mark positions.
2. Mains services marking: Arrange with the appropriate authorities for services to be located and marked.

30 Services disconnection arranged by contractor

1. Responsibility: Before starting deconstruction/ demolition arrange with the appropriate authorities for disconnection of services owned by those authorities and removal of associated fittings and equipment.

32 Disconnection of drains

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

35 Live foul and surface water drains

1. General: Protect drains and fittings still in use. Keep free of debris and ensure normal flow during deconstruction/ demolition work.
2. Damage: Make good damage arising from deconstruction/ demolition work. Leave clean and in working order at completion of deconstruction/ demolition work.

40 Service bypass connections

1. General: Provide as necessary to maintain continuity of services to occupied areas of the site on which the deconstruction/ demolition is taking place and to adjoining sites/ properties.
2. Notice: Give adequate notice to adjoining owners and all affected occupiers if shutdown is necessary.

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/ demolition.
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: Appropriately skilled and experienced for the type of work. Holding, or in training to obtain, relevant CITB Certificates of Competence.
3. Site staff responsible for supervision and control of work: Experienced in the assessment of risks involved and methods of deconstruction/ demolition to be used.

55 Site hazards

1. Precautions: Prevent fire and/ or explosion caused by gas and/ or vapour from tanks, pipes, etc.
2. Dust: Reduce by periodically spraying with an appropriate wetting agent, or contain.
 - 2.1. Lead dust: Submit method statement for control, containment and clean-up regimes.
3. Site operatives and general public: Protect from vibration, dangerous fumes and dust arising during the course of the Works.

60 Adjoining property

1. Temporary support and protection: Provide. Maintain and alter, as necessary, as work proceeds. Do not leave unnecessary or unstable projections.
2. Defects: Report immediately on discovery.

3. Damage: Minimize. Repair promptly to ensure safety, stability, weather protection and security.
4. Support to foundations: Do not disturb.

65 Structures to be retained

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

70 Partly demolished structures

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

71 Dangerous openings

1. General: Provide guarding at all times, including outside of working hours. Illuminate during hours of darkness.
2. Access: Prevent access by unauthorized persons.

76 Asbestos-containing materials – unknown occurrences

1. Discovery: Give notice immediately of suspected asbestos-containing materials when discovered during deconstruction/ demolition work. Avoid disturbing such materials.
2. Removal: Submit statutory risk assessments and details of proposed methods for safe removal.

78 Unforeseen hazards

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

86 Site surface at completion

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

90 Contractor's property

1. Components and materials arising from the deconstruction/ demolition work: Property of the Contractor except where otherwise provided.
2. Action: Remove from site as work proceeds where not to be reused or recycled for site use.

95 Recycled materials

1. Materials arising from deconstruction/ demolition work: Can be recycled or reused elsewhere in the project, subject to compliance with the appropriate specification and in accordance with any site waste management plan.

C40

Cleaning masonry/ concrete

General/preparation

110 Scope of work

1. Refer to drawings .

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.
4. Additional protection:

175 Control and disposal of wash water and detritus

1. Disposal: Safely. Obtain approvals from relevant Authority.
2. Control of wash water: Collect and divert to prevent ingress and damage to building fabric and adjacent areas.
3. Above and below ground drainage systems: Keep free from detritus and maintain normal operation.

190 Cleaning generally

1. Operatives: Appropriately trained and experienced for each type of cleaning work.
 - 1.1. Evidence of training: Submit on request.
2. Control of cleaning: Confine cleaning processes and materials to designated areas. Prevent wind drift.
3. Detritus: Remove regularly. Dispose of safely.
4. Monitoring: Frequently check results of cleaning compared to approved trial samples. If results established by trials are not achieved, seek instructions.
5. Modifications to cleaning methods and materials: Seek instructions.

215 Record of cleaning works

1. Written report: Record cleaning methods and procedures used for each type of surface and deposit.
 - 1.1. Content: Relevant attributes of cleaning methods used including:
 - 1.1.1. Equipment and settings.
 - 1.1.2. Dwell times.
 - 1.1.3. Number of applications.
 - 1.1.4. Ambient temperatures.
2. Additional documentation:

3. Submission: At completion of cleaning works.

230 Trial samples

1. Trial sample reference:
 - 1.1. Surface: Clay brick / concrete
 - 1.2. Location/ Size: Refer to drawings
 - 1.3. Type of soiling: Paint
 - 1.4. Cleaning methods: Chemicals
2. Records: Maintain written records for each trial area, including cleaning methods and conditions, to enable replication of results elsewhere.

Products/equipment

362 Chemical agents

1. Description: FOR PAINT REMOVAL
2. Manufacturer: Sherwin-Williams : Dumond
 - 2.1. Product reference: Smart strip PRO 4382 or approved equivalent

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.

495 Testing pH. values for chemical cleaning

1. pH indicator: To distinguish pH values between 1-14.
2. Testing before cleaning
 - 2.1. Clean rinsing water, wetted surfaces and joints: Test for pH. Record as 'control' values.
3. Testing after water rinsing and neutralization
 - 3.1. Wetted surfaces and joints: Record pH values.
 - 3.2. Acceptance criteria:

500 Chemical cleaning

1. Surfaces: Prevent damage, including discolouration, bleaching and efflorescence.
2. Product variables (including concentrations, dwell times and number of applications): Adjust for each surface to achieve optimum cleaning performance.
3. Application: To wetted surfaces.
 - 3.1. Drying out: Prevent unless recommended otherwise by cleaning product manufacturer.
4. Removal of chemicals and neutralization: As recommended by product manufacturer, including rinsing with clean water.
 - 4.1. Additional treatment: Where water rinsing is insufficient to neutralize surface, apply compatible neutralizing agent.
 - 4.2. Surfaces and joints: Minimize absorption of chemicals. Prevent damage, including abrasion.

515 Plain poulticing

1. Surfaces: Prevent damage, including abrasion.
2. Application: To wetted surfaces. Maintain contact with surfaces as poultice dries out.
3. Poultice reinforcement:
 - 3.1. Drying: Prevent excessively rapid or localized drying out.
4. Spent poultice material: Do not reuse.

K10**Gypsum board dry linings/ partitions/ ceilings**

To be read with preliminaries/ general conditions.

30 Metal stud TO SERVICES AND STEEL ENCASEMENTS

1. Description: To services and steel encasements- 120mins
2. Manufacturer: British Gypsum
 - 2.1. Product reference: GypWall Classic
System Ref: A206111 (EN)
3. Stud types: 70mm Gyproc C studs
 - 3.1. Centres: 600mm
4. Insulation: Isover partition roll
 - 4.1. Recycled content: N/A
 - 4.2. Thickness: 25mm
5. Linings: 2 layers of 12.5mm Gyproc Fireline fixed to either side
 - 5.1. Recycled content: N/A
6. Finishing: Skim coat plaster
 - 6.1. Primer/ Sealer: As recommended by board manufacturer
 - 6.2. Accessories: Metal beads/ stops recommended by board manufacturer
7. Other requirements: Fire-stopping around services as section P12

31 Metal stud INTERNAL PARTITIONS - CURVED WALLS

1. Description: Curved walls
2. Manufacturer: British Gypsum
 - 2.1. Product reference: GypWall Curve
3. Stud types: 70mm Gyproc C studs
 - 3.1. Centres: 300mm
4. Insulation: Isover partition roll
 - 4.1. Recycled content: N/A
 - 4.2. Thickness: 25mm
5. Linings: 1 layers of 12mm plywood fixed to studs overlaid with 12mm (2 x 6mm) Glassroc F Multiboard
 - 5.1. Recycled content: N/A
6. Finishing: Skim coat plaster
 - 6.1. Primer/ Sealer: As recommended by board manufacturer
 - 6.2. Accessories: Metal beads/ stops recommended by board manufacturer
7. Other requirements: Fire-stopping around services as section P12

32 Metal stud INTERNAL PARTITIONS

1. Description: Internal Partitions - 30mins
2. Manufacturer: British Gypsum

K10

Gypsum board dry linings/ partitions/ ceilings

- 2.1. Product reference: GypWall Classic
System Ref: A206046 (EN)
- 3. Stud types: 70mm Gyproc C studs
 - 3.1. Centres: 600mm
- 4. Insulation: Isover partition roll
 - 4.1. Recycled content: N/A
 - 4.2. Thickness: 25mm
- 5. Linings: 1 layers of 12mm plywood fixed to studs overlaid with 15mm Gyproc Wallboard
 - 5.1. Recycled content: N/A
- 6. Finishing: Skim coat plaster
 - 6.1. Primer/ Sealer: As recommended by board manufacturer
 - 6.2. Accessories: Metal beads/ stops recommended by board manufacturer
- 7. Other requirements: Fire-stopping around services as section P12

33 Metal stud INTERNAL PARTY WALL PARTITIONS

- 1. Description: Internal Party Wall - 60mins
- 2. Manufacturer: British Gypsum
 - 2.1. Product reference: Gyproc FireLine
System Ref: A206110 (EN)
- 3. Stud types: 70mm Gyproc C studs
 - 3.1. Centres: 600mm
- 4. Insulation: Isover partition roll
 - 4.1. Recycled content: N/A
 - 4.2. Thickness: 25mm
- 5. Linings: 1 layers of 15mm FireLine Board to both sides
 - 5.1. Recycled content: N/A
- 6. Finishing: Skim coat plaster
 - 6.1. Primer/ Sealer: As recommended by board manufacturer
 - 6.2. Accessories: Metal beads/ stops recommended by board manufacturer
- 7. Other requirements: Fire-stopping around services as section P12

50 Suspended ceiling system on metal framing

- 1. Standard: To BS EN 13964.
- 2. Evidence of compliance: All ceilings kits to be CE marked. Submit Declaration of Performance (DoP).
- 3. Manufacturer: British Gypsum
 - 3.1. Product reference: Casoline MF
- 4. Structural soffit: Soffit height - refer to drawings
- 5. Suspension system
 - 5.1. Hangers: GA1 Steel angles
 - 5.2. Type: Recommended by board manufacturer screwed to sides of joists
 - 5.3. Hanger centres: 1200

- 5.4. Grid centres: 1200 x 450
- 6. Linings: 2 x 12.5mm fireline board generally
- 7. Insulation: 100mm Isover APR acoustic Roll
 - 7.1. Recycled content: As manufacturers standard
- 8. Finishing: Seamless jointing
 - 8.1. Integrated services fittings : Hangers and housings for luminaires and services
 - 8.2. Accessories: Timber edge battens
- 9. Other requirements: Fire stopping around service penetrations and section P12

51 Suspended ceiling system on metal framing TO WCs

- 1. Standard: To BS EN 13964.
- 2. Evidence of compliance: All ceilings kits to be CE marked. Submit Declaration of Performance (DoP).
- 3. Manufacturer: British Gypsum
 - 3.1. Product reference: Gyprex Satinspar - 05006/0 - White
- 4. Structural soffit: Soffit height - refer to drawings
- 5. Ceiling system manufacturer: British Gypsum
 - 5.1. Product reference: Casoline Quick-lock lay in grid T15 C10A020 (A) (EN)
- 6. Ceiling
 - 6.1. Soffit height above finished floor level: Soffit height - refer to drawings
- 7. Suspension system
 - 7.1. Hangers: Recommended by board manufacturer
 - 7.2. Type: Recommended by board manufacturer
 - 7.3. Hanger centres: Recommended by board manufacturer
 - 7.4. Grid centres: 600x 600mm
- 8. Finishing: Seamless jointing
 - 8.1. Integrated services fittings : Hangers and housings for luminaires and services
 - 8.2. Accessories: All trims and accessories necessary to complete installation.
- 9. Other requirements: Fire stopping around service penetrations and section P12

Installation

65 Dry lining generally

- 1. General: Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.
- 2. Standard:
 - 2.1. Gypsum plasterboard to BS EN 520.
 - 2.2. Gypsum fibre board to BS EN 15283-2.
 - 2.3. Evidence of compliance: All sheets to be CE marked. Submit Declaration of Performance (DoP).
- 3. Cutting gypsum boards: Neatly and accurately without damaging core or tearing paper facing. Minimize cut edges.

4. Gypsum plasterboard to BS EN 520.
5. Gypsum fibre board to BS EN 15283-2.
6. Evidence of compliance:
7. Two layer boarding: Stagger joints between layers.
8. Finishing: Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

67 Skim coat plaster finish

1. Plaster type: Thistle multi finish
 - 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 services.
 - 1.3. Board edges and lining perimeters.

75 New wet laid bases

1. Dpcs: Install under full width of partitions/ freestanding wall linings.

85 mineral wool insulation

1. Fitting insulation: Closely butted joints and no gaps. Prevent slumping.

87 Sealing gaps and air paths

1. Sealing: Apply sealant to perimeter abutments and around openings as a continuous bead with no gaps.
 - 1.1. Gaps between floor and underside of gypsum board: After sealing, fill with joint compound.

90 Seamless jointing

1. Filling and taping: Fill joints, gaps and internal angles with jointing compound and cover with continuous lengths of tape, fully bedded.
2. Finishing: Feather out jointing compound to give a flush, smooth, seamless surface.
3. Nail/ screw depressions and minor indents: Fill to give a flush surface.

Finishing - Not Used

K13

Rigid sheet fine linings and panelling

Types of lining and panelling

170 Acoustic panel lining

1. Substrate: Metal stud partitions
2. Battens: Softwood free from decay and active insect attack and with no knots wider than half the width of the section.
3. Panels
 - 3.1. Manufacturer: Acupanel
 - 3.1.1. Product reference: Contemporary Walnut Acoustic Wood Wall Panels
 - 3.2. Thickness: 22mm
 - 3.3. Finish: As Supplied
4. Installation
 - 4.1. Method of fixing panels: Secret nailed, as recommended by manufacturer
5. Accessories: None

General requirements

210 Advance registration

1. Materials registered in advance by the employer: Obtain from supplier named in Preliminaries section A56.
 - 1.1. Ordering: Supersede employer's registration and take over responsibility by an order to the supplier covering price, supply and delivery to suit progress of the work.

260 Environmental conditions

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

Fabrication/ fixing/ finishing

310 Accuracy of fabrication

1. Site dimensions: Take as necessary before starting fabrication.
 - 1.1. Discrepancies with drawings: Report without delay and obtain instructions before proceeding.
2. Permissible deviations for panels
 - 2.1. Length: ± 1.5 mm.
 - 2.2. Width: ± 1.5 mm.
 - 2.3. Squareness (taking the longer of 2 sides at a corner as a baseline and measuring the deviation of the shorter side from the baseline perpendicular): ± 1.5 mm in 1 m.
 - 2.4. Flatness (of panels with a core thickness of 12 mm and over, as delivered to site): ± 1 mm under a 600 mm straightedge.

K13

Rigid sheet fine linings and panelling

320 Laminated timber cores for wood-veneered panels

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

350 Fixing linings and panelling

1. Setting out: Accurate, true to line and level, free from undulations and lipping, with lines and joints aligned, straight and parallel unless specified otherwise.
2. Movement allowance: Adequate for future moisture and temperature movement of boards.
3. Fixing of panels: Secure, to prevent pulling away, bowing, or other movement during use.
4. Methods of fixing and fasteners: As section Z20 unless specified otherwise.
5. Trims: Wherever possible, to be in unjointed lengths between angles or ends of runs.
 - 5.1. Running joints: Where unavoidable, submit proposals for location and method of jointing.
 - 5.2. Angle joints: Mitred, unless specified otherwise.

400 Door frames

1. Hardwood packing between frames and reveals: To give even joints of specified width.
 - 1.1. Position of packs: Where fixings tighten frame against structure.
2. Positions of frames: Accurate, plumb, level, and aligned.
 - 2.1. Fixing of frames: Secure, to prevent pulling away, deflection, or other movement during use.
 - 2.2. Fastener locations: 600 mm maximum centres with at least one fixing 150 mm from each end of jambs and one adjacent to each hanging point.

410 Fire-resisting frames

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

480 Clear finishes

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

K30

Panel partitions

To be read with preliminaries/general conditions.

10 Partition System

1. Description: Glazed partitions and doors
2. Manufacturer: Kova Partitions
 - 2.1. Product reference: Industrial Style Black framed Partitions
3. Standard: To BS 5234
4. Strength grade: To BS 5234-2, Heavy (HD)
5. Fire resistance of complete system
 - 5.1. Standard: To BS EN 13501-2
 - 5.2. Rating: 30 minutes' integrity
6. Reaction to fire (for rateable components): To BS EN 13501-1, Class A1
7. Sound insulation (minimum)
 - 7.1. Standard: BS EN ISO 140-3
 - 7.2. Rating: 48 dB (Rw) (100-3150 Hz) to glazed panels
8. Accessible design: In accordance with BS 8300-2
9. Partition height: 2.4m high As drawing 7002.302
10. Partition abutments
 - 10.1. Head: Concrete slab and steel beams
 - 10.2. Deflection allowance: Up to +/- 15 mm
 - 10.3. Floor: Concrete slab
 - 10.4. Wall/ Vertical structure: Concrete columns/ Blockwork
11. Framing: Aluminium, powder-coated
12. Junctions/ Corners: Exposed aluminium posts
13. Skirtings/ Sills: Floor mounted - as manufacturers detail
14. Trims: Square-edge aluminium cover trim
15. Glazed panels: As Drawing
 - 15.1. Glass types: **Glazing to be toughened glass with laminate to achieve sound proofing performance of 46dB.**

Glazing to be clear on top and bottom panels, central panels to be obscured - refer to drawings.

Class 1B1 to BS EN 12600 safety
16. Doorsets: Internal pedestrian doorsets to BS EN 14351-2
 - 16.1. Door frames as part of complete doorset: Aluminium, powder-coated
 - 16.2. Doors as part of complete doorset: Glazed as supplied by manufacturer
 - 16.3. Seals as part of complete doorset: As supplied by system manufacturer
 - 16.4. Threshold: Drop down

- 16.5. Vision panels as part of complete doorset: As drawing
- 16.6. Ironmongery as part of complete doorset: As supplied
- 17. Cable management/ outlets: Not required
- 18. Accessories: None
- 19. Other requirements: None

50 Workmanship generally

- 1. Setting out: Plumb, true to line and level and free from bowing, undulations and other planar distortions.
- 2. Joints: Align accurately with no lipping.
- 3. Stability: Fix securely, with additional supports where necessary at perimeters.
- 4. Moisture and thermal movement of framing/ panels: Make adequate allowance.

56 Environmental conditions

- 1. General: Before, during and after installation, maintain temperature and humidity levels similar to those that will prevail after building is occupied.

70 Perimeter seals

- 1. Sealant material: A type recommended by the partition/ panel manufacturer.
- 2. Application: Continuously to clean, dry, dust free surfaces, leaving no gaps. In accordance with the sealant manufacturer's instructions.

75 Fire-stopping

- 1. General: Seal gaps at junctions of partitions with perimeter abutments, cavity barriers, service penetrations, etc., to prevent penetration of smoke and flame.
- 2. Materials: Non-combustible or intumescent.
- 3. Fire-stopping: Cross-reference NBS section P12 for requirements of fire-stopping systems.

76 Glazing for partitions

- 1. Glass standards: To BS 952-1, BS 952-2 and relevant parts of:
 - 1.1. BS EN 572 for basic soda lime silicate glass.
 - 1.2. BS EN 1096 for coated glass.
 - 1.3. BS EN 1748 for borosilicate glass.
 - 1.4. BS EN 1863 for heat-strengthened soda lime silicate glass.
 - 1.5. BS EN 12150 for thermally toughened glass.
 - 1.6. BS EN 12337 for chemically strengthened soda lime silicate glass.
 - 1.7. BS EN ISO 12543 for laminated glass.
 - 1.8. BS EN 13024 for thermally toughened borosilicate safety glass.
 - 1.9. BS EN 14178 for basic alkaline earth silicate glass.
 - 1.10. BS EN 14321 for thermally toughened alkaline earth silicate safety glass.
 - 1.11. BS EN 14449 for laminated glass and laminated safety glass.
- 2. Insulated glass unit standard: To relevant parts of BS EN 1279.
- 3. Pane size: Within ± 2 mm of nominal size.

4. Pane condition: Clean and free from obvious scratches, bubbles, rippling, dimples and other defects.
5. Glazing standard: To relevant parts of BS 6262.
6. Preglazed panes: To be capable of being reglazed in situ.

79 Ironmongery for partitions

1. Frames and doors: Prepare accurately to accept ironmongery and associated fixings.
2. Ironmongery installation: Accurate and without damage to components or surrounding surfaces.
 - 2.1. Fasteners: Supplied by partition/ ironmongery manufacturer. Finish to match component.
3. Completion: Check, adjust and lubricate as necessary for correct operation.

K32**Panel cubicles/ duct and wall linings/ screens***To be read with preliminaries/ general conditions.***10 Panel cubicles Type A**

1. Manufacturer:
 - 1.1. Product reference: Flow Laminate
2. Manufacturer: [Thrislington Cubicles](#)
 - 2.1. Contact details
 - 2.1.1. Address: Prince William Avenue
North Wales Trade Centre
Sandycroft
Deeside
Flintshire
CH5 2QZ
 - 2.1.2. Telephone: [+44 \(0\)1244 520677](tel:+441244520677)
 - 2.1.3. Web: www.thrislingtoncubicles.com
 - 2.1.4. Email: sales@thrislingtoncubicles.com
3. Panel supports: Full anodized aluminium frame using aluminium alloy 6063T6, with a 5 micron anodized finish and 60% recycled content. Extruded headrail finished with matching high pressure laminate. Stainless steel lock located into receiver integrated within the vertical fascia.
4. Doors: 42mm finished thickness, consisting of a 40mm ultra-lightweight MDF core sourced from sustainable forests, rebated first, hand lipped and faced with high pressure laminate. Concealed fixings within the door allow attachment to stainless steel pivot blocks, suspended from a structural aluminium headrail and located onto floor-fixed pivot bracket. Door falls closed by means of a hydraulic door-closer designed specifically for the purpose, concealed within the aluminium headrail (alternatively, the closer can be factory-set to fall open).
5. Hardware: 1.4305 (303) grade brushed stainless steel lock, hand-turned in UK and able to be opened using a closed fist, fixed through the door to the faceplate for added strength. Sacrificial hard nylon shear tip to the lock finger, which locates into flush receiver, integrated with the cubicle fascia. Complete with emergency release facility and buffer. Divider fixed to back wall using concealed steel brackets, fastened by through- fixings. divider connected to front fascia using unique magnetic invisible fixings. Stainless steel coat hook supplied as standard.
6. System accessories: Divider: Supported, 8mm from floor with concealed fixings.
7. Size:: Full height up to 2100mm.
8. Finish:: 0.8 mm high-pressure laminate TBC
9. Colour:: C131 CHÊNE MURANO - Externally
C105 CHÊNE QUEBEC - Internally

15 Duct/ wall lining panels Type A

1. Manufacturer:
 - 1.1. Product reference: [Sentry Laminate Access Module](#)
2. Manufacturer: [Thrislington Cubicles](#)
 - 2.1. Contact details

2.1.1.Address: Prince William Avenue
North Wales Trade Centre
Sandycroft
Deeside
Flintshire
CH5 2QZ

2.1.2.Telephone: +44 (0)1244 520677

2.1.3.Web: www.thrislingtoncubicles.com

2.1.4.Email: sales@thrislingtoncubicles.com

3. Fasteners: Access panels are factory-fitted to framework using adjustable zinc alloy die-cast hinges and fastened using zinc alloy die-cast locating catches. Panel accessed using supplied injection-moulded key.
4. Supporting frame
 - 4.1. Duct panels: Full aluminium frame using Aluminium Alloy 6063T6, factory-assembled using extruded vertical posts and horizontal cross-rails.
5. Access panel: Medium density fibreboard.
6. Infill panels: High Pressure Laminate.
7. Colour/ Finish:: C105 CHÊNE QUEBEC - Internally
C131 CHÊNE MURANO - Externally

18 Samples

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

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.

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:
 - 2.1. Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - 2.2. Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
3. Certification scheme: UK Timber procurement policy Category A evidence certification scheme.

25 Wood panelled doors

1. Description: FD30 FIRE-RESISTING - INTERNAL DOORS
2. Manufacturer: Howdens
 - 2.1. Product reference: Thruxton White Grained 4 panel moulded FD30 fire door
3. Wood species: HDF
4. Preservative treatment: Not required
5. Finish as delivered: Full factory finish
6. Glazing/ Infill details: Not applicable
 - 6.1. Manifestation: Not required
 - 6.2. Beading: Not required
7. Thermal performance (U-value maximum): Manufacturer's standard
8. Other requirements: None

50 Wood door frames

1. Description: AND ARCHITRAVES
2. Manufacturer: Howdens
 - 2.1. Product reference: Primed softwood FD30 door frame and linings
3. Species: Softwood
4. Preservative treatment: Not required
5. Finish as delivered: Full paint system, as section M60
6. Perimeter seals: Fire and smoke seal
7. Thermal performance: Manufacturer's standard
8. Fixing: Plugged and screwed, as section Z20
 - 8.1. 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.

L20**Doors/ shutters/ hatches**

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: White
 - 1.3. Application: As section Z22 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.

M40**Stone/ concrete/ quarry/ ceramic tiling/ mosaic***To be read with preliminaries/ general conditions.***5 Tiling FLOOR TILES WCS**

1. Tiles:
 - 1.1. Manufacturer/ Supplier: Original Style Floor Tiles, Devon
 - 1.1.1. Product reference: Blenheim 3 Colour Style
 - 1.2. Colour: Blenheim 3 Colour Style includes:
 - 7103V Dover White - square
 - 6803V Grey - square
 - 6313V Black - triangle
 - 7113V Dover White - triangle
 - 7973V Black on Dover White - livingstone
 - 1.3. Size:
 - 7103V Dover White - square - 75 x 75mm
 - 6803V Grey - square - 75 x 75mm
 - 6313V Black - triangle - 73 x 52mm
 - 7113V Dover White - triangle - 73 x 52mm
 - 7973V Black on Dover White - livingstone - 106 x 106mm
2. Background/ Base: Existing Screed- presumed
 - 2.1. Preparation: As clause
3. Intermediate substrate: Norcros Permalayer anti fracture membrane into a solid 2mm bed of Norcros rapid porcelain tile adhesive. Level as required using Norcros pro 50 and allow to dry.
4. Bedding: Adhesive bed notched trowel and buttering method, as clause 60.
 - 4.1. Adhesive: Norcross Rapid porcelain and stone S1 adhesive
5. Joint width: 3mm
6. Grout: Norcros 4 into 1 flexible grout, colour TBC
7. Movement joints: Generally at the perimeter and at 8m intervals.
8. Accessories:
 - Fill perimeter movement joints with Norcros 4 into 1 silicone sealant colour to match grout.
 - Tile skirtings - TBC

10 Tiling WALL TILING

1. Tiles:
 - 1.1. Manufacturer/ Supplier: Original Style Floor Tiles, Devon
 - 1.1.1. Product reference: La Belle Collection or equally approved
 - 1.2. Colour: Snowdrop KA5900 or equally approved
 - 1.3. Size: 100 x 100mm
2. Background/ Base: Tile backer

M40**Stone/ concrete/ quarry/ ceramic tiling/ mosaic**

- 2.1. Preparation: Apply BAL TANK-IT, no priming required
3. Intermediate substrate: Not required
4. Bedding: Adhesive bed notched trowel and buttering method, as clause 60.
 - 4.1. Adhesive: to BS EN 12004: BAL RAPID FLEX ONE.
5. Joint width: 3mm
6. Grout: BAL MICROMAX 2.
7. Movement joints: Generally at the perimeter and at 8m intervals.
8. Accessories: None

15 New backgrounds/ bases

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

20 Existing backgrounds/ bases generally

1. Efflorescence, laitance, dirt, loose and defective material: Remove and make good defective areas with materials compatible with background/base and bedding.
2. Deposits of oil, grease and other materials incompatible with the bedding: Remove.
3. Tile, paint and other nonporous surfaces: Clean.
4. Wet backgrounds: Dry before tiling.
5. Paint with unsatisfactory adhesion: Remove so as not to impair bedding adhesion.

25 New plaster

1. Plaster primer: Apply if recommended by adhesive manufacturer.

30 Fixing generally

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

32 Mortar bedding

1. Bedding mix
 - 1.1. Cement: Portland to BS EN 197-1, type CEM I/42.5.
 - 1.2. Sand for walls: Fine aggregate to BS EN 13139.
 - 1.2.1. Grading designation: 0/2 (CP or MP) category 2 fines.
 - 1.3. Sand for floors: Fine aggregate to BS EN 13139.
2. Grading designation: 0/4 (MP) category 1 fines and between 20-66% passing a 0.5 sieve.
3. Batching: Select from:
 - 3.1. Batch by weight.
 - 3.2. Batch by volume: Permitted on the basis of previously established weight:volume relationships of the particular materials. Use accurate gauge boxes. Allow for bulking of damp sand.
4. Mixing: Mix materials thoroughly to uniform consistence. Use a suitable forced action mechanical mixer. Do not use a free fall type mixer.
5. Application: At normal temperatures use within two hours. Do not use after initial set. Do not retemper.

35 Setting out

1. Joints: True to line, continuous and without steps.
 - 1.1. Joints on walls: Horizontal, vertical and aligned round corners.
 - 1.2. Joints in floors: Parallel to main axis of space or specified features.
2. Cut tiles: Minimize number, maximize size and locate unobtrusively.
3. Joints in adjoining floors and walls: Align.
4. Joints in adjoining floors and skirtings: Align.

60 Adhesive bed – notched trowel and buttering method to floors

1. Application: Floated coat of adhesive to dry base and comb surface.
2. Tiling: Apply coat of adhesive to backs of dry tiles. Fill any profiles. Press tiles firmly onto float coat.
3. Finished adhesive thickness: Within range allowed by manufacturer.

70 Grouting

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

M50

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

To be read with preliminaries/ general conditions.

10A Resilient floor tiling Type A

1. Description: Refer to floor finishes drawings
2. Tiles
 - 2.1. Manufacturer: [Karndean Designflooring](#)
 - 2.1.1. Contact details
 - 2.1.1.1. Address: Crab Apple Way
Vale Park
Evesham
Worcestershire
WR11 1GP
 - 2.1.1.2. Telephone: [+44 \(0\)1386 820104](tel:+44(0)1386820104)
 - 2.1.1.3. Web: www.karndean.com
 - 2.1.1.4. Email: commercialmarketing@karndean.co.uk
 - 2.1.2. Product reference: [Art Select](#)
 - 2.2. Standard: To EN 649/ EN ISO 10582.
 - 2.3. Use class: To EN 685/EN ISO 10874, class 43.
 - 2.4. Slip potential
 - 2.4.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): R10; DS.
 - 2.5. Size: 228 x 76 mm.
 - 2.6. Thickness: 3 mm.
 - 2.7. Colour and pattern: AP06 Morning Oak Parquet
 - 2.8. Border: Two strips wide laid brick pattern.
 - 2.9. Adhesive & Primer: As recommended by manufacturer: Karndean Universal.
 - 2.10. Wear layer thickness: 0.7 mm.
 - 2.11. Surface treatment: K-Guard+ PU coating.
 - 2.12. Edge: Standard bevelled.
 - 2.13. Mass: 5015 g/m².
 - 2.14. Reaction to fire: Bfl-s1.
 - 2.15. Lightfastness: ≥6.
 - 2.16. Abrasion resistance: Group T; Type 1.
 - 2.17. Flexibility: Pass.
 - 2.18. Dimensional stability: Pass.
 - 2.19. Sound reduction: 2 dB.
 - 2.20. Residual indentation: ≤0.1 mm (Pass).
 - 2.21. Castor chair rating: Pass.
 - 2.22. Thermal resistance: 0.0147 m²K/W.

10B Resilient floor tiling Type B

1. Description: Refer to floor finishes drawings
2. Tiles
 - 2.1. Manufacturer: [Karndean Designflooring](#)
 - 2.1.1. Contact details
 - 2.1.1.1. Address: Crab Apple Way
Vale Park
Evesham
Worcestershire
WR11 1GP
 - 2.1.1.2. Telephone: [+44 \(0\)1386 820104](tel:+44(0)1386820104)
 - 2.1.1.3. Web: www.karndean.com
 - 2.1.1.4. Email: commercialmarketing@karndean.co.uk
 - 2.1.2. Product reference: [Art Select](#)
 - 2.2. Standard: To EN 649/ EN ISO 10582.
 - 2.3. Use class: To EN 685/EN ISO 10874, class 43.
 - 2.4. Slip potential
 - 2.4.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): R10; DS.
 - 2.5. Size: 915 x 152 mm.
 - 2.6. Thickness: 3 mm.
 - 2.7. Colour and pattern: HC02 Morning Oak
 - 2.8. Adhesive & Primer: As recommended by manufacturer: Karndean Universal.
 - 2.9. Wear layer thickness: 0.7 mm.
 - 2.10. Surface treatment: K-Guard+ PU coating.
 - 2.11. Edge: Standard bevelled.
 - 2.12. Mass: 5015 g/m².
 - 2.13. Reaction to fire: Bfl-s1.
 - 2.14. Lightfastness: ≥6.
 - 2.15. Abrasion resistance: Group T; Type 1.
 - 2.16. Flexibility: Pass.
 - 2.17. Dimensional stability: Pass.
 - 2.18. Sound reduction: 2 dB.
 - 2.19. Residual indentation: ≤0.1 mm (Pass).
 - 2.20. Castor chair rating: Pass.
 - 2.21. Thermal resistance: 0.0147 m²K/W.

20 Sheetting Type A

1. Description: Cleaners Cupboards - Refer to floor finishes drawings
2. Flooring roll
 - 2.1. Manufacturer: [Altro](#)
 - 2.1.1. Contact details

2.1.1.1. Address: Works Road
Letchworth Garden City
Hertfordshire
SG6 1NW

2.1.1.2. Telephone: [+44 \(0\)1462 489516](tel:+44(0)1462489516)

2.1.1.3. Web: www.altro.co.uk

2.1.1.4. Email: enquiries@altro.com

2.1.2. Product reference: [Altro Aquarius](#)

2.2. Colour: Puffin - AQI2005 - TBC

2.3. Surface finish/ treatment: Refer to manufacturer standards

40 Laying coverings on new wet laid bases

1. Base drying aids: Not used for at least four days prior to moisture content test.
2. Base moisture content test: Carry out in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
3. Commencement of laying coverings: Not until all readings show 75% relative humidity or less.

45 Existing floor covering removed

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

65 Laying coverings

1. Base/ substrate condition: Rigid, dry, smooth, free from grease, dirt and other contaminants.
2. Use a primer where recommended by adhesive manufacturer. Allow to dry thoroughly.
3. Adhesive: As specified, as recommended by covering manufacturer or, as approved.
4. Conditioning of materials prior to laying: As recommended by manufacturer.
5. Environment: Before, during and after laying, provide adequate ventilation and maintain temperature and humidity approximately at levels which will prevail after building is occupied.
6. Finished coverings: Accurately fitted, tightly jointed, securely bonded, smooth and free from air bubbles, rippling, adhesive marks, stains, trowel ridges and high spots.

75 Stair nosings and trims Type A

1. Manufacturer: [Gradus](#)
 - 1.1. Contact details
 - 1.1.1. Address: Chapel Mill
Park Green
Macclesfield
Cheshire
SK11 7LZ
 - 1.1.2. Telephone: [+44 \(0\)1625 428922](tel:+44(0)1625428922)
 - 1.1.3. Web: www.gradus.com
 - 1.1.4. Email: imail@gradus.com
 - 1.2. Product reference: [PVC-U Hardnose XT Stair Edging](#) or approved equivalent
2. Profile: DDXT1
3. Colour: Granite

M50

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

4. Insert
 - 4.1. Type: Interior
 - 4.2. Insert colour: Granite
5. Fixing: Mechanical (screw) and adhesive fix

80 Skirtings Type A - TO CLEANERS CUPBOARD & SHOWER

1. Manufacturer:
 - 1.1. Product reference: [Self-Coved Skirting](#)
2. Manufacturer: [Altro](#)
 - 2.1. Contact details
 - 2.1.1. Address: Works Road
Letchworth Garden City
Hertfordshire
SG6 1NW
 - 2.1.2. Telephone: [+44 \(0\)1462 489516](tel:+44%201462489516)
 - 2.1.3. Web: www.altro.co.uk
 - 2.1.4. Email: enquiries@altro.com
3. Cove former: CF20R
4. Capping seal: C7

85 Waste

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

M60

Painting/ clear finishing

To be read with preliminaries/ general conditions.

10 Emulsion paint Type A

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1.Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 1.1.2.Telephone: [+44 \(0\)333 222 7070](#)
 - 1.1.3.Web: www.duluxtradepaintexpert.co.uk
 - 1.1.4.Email: project.support@akzonobel.com
 - 1.2. Product reference: [Dulux Trade Diamond Matt](#)
2. Composition: Acrylic copolymer.
3. Sheen: Matt.
4. Colour: Pure Brilliant White. TBC
5. System code: D7 - Painted walls to be Class 0 fire rating upgraded.
6. Form: Liquid.

12 Gloss paint Type A

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1.Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 1.1.2.Telephone: [+44 \(0\)333 222 7070](#)
 - 1.1.3.Web: www.duluxtradepaintexpert.co.uk
 - 1.1.4.Email: project.support@akzonobel.com
 - 1.2. Product reference: [Dulux Trade Quick Dry Gloss](#)
2. Composition: Alkyd.
3. Sheen: High gloss.
4. Colour: TBC
5. System code: D1284 – Internal non-resinous softwood / Hardwood.
6. Form: Liquid.

14 Eggshell/ satin paint Type A

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

- 1.1. Contact details
 - 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 1.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44%20333%2022%207070)
 - 1.1.3. Web: www.duluxtradepaintexpert.co.uk
 - 1.1.4. Email: project.support@akzonobel.com
- 1.2. Product reference: [Dulux Trade Diamond Eggshell](#).
2. Composition: Acrylic copolymer.
3. Sheen: Eggshell.
4. Colour: TBC
5. System code: D95S - Painted wall and ceiling surfaces.

18 Metal Paint TO METAL HANRAILS OVER WINDOWS

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 1.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44%20333%2022%207070)
 - 1.1.3. Web: www.duluxtradepaintexpert.co.uk
 - 1.1.4. Email: project.support@akzonobel.com
 - 1.2. Product reference: [Dulux Trade Metalshield Satin](#)
2. Composition: Alkyd.
3. Sheen: Satin.
4. Colour: TBC
5. Execution: Applying coating.
6. Form: Liquid.
7. Surfaces: Handrails
 - 7.1. Preparation: Wash down all surfaces
8. Initial coats: As recommended by manufacturer
 - 8.1. Number of coats: 1
9. Undercoats: As recommended by manufacturer
 - 9.1. Number of coats: Not required
10. Finishing coats: As recommended by manufacturer
 - 10.1. Number of coats: 2

20 Coating materials

1. Manufacturers: Obtain materials from any of the following:

2. Selected manufacturers: Submit name before commencement of coating work.

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 assessment and method statement for 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.
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. Doors, opening windows and other moving parts
 - 11.1. Ease, if necessary, before coating.
 - 11.2. Prime resulting bare areas.

32 Previously coated surfaces generally

1. Preparation: In accordance with BS 6150, clause 11.5.
2. Contaminated or hazardous surfaces: Give notice of:
 - 2.1. Coatings suspected of containing lead.
 - 2.2. Substrates suspected of containing asbestos or other hazardous materials.
 - 2.3. Significant rot, corrosion or other degradation of substrates.
3. 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: Apply additional preparatory coats.
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.

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.

39 Steel preparation

1. Corrosion and loose scale: Take back to bare metal.
2. Residual rust: Treat with a proprietary removal solution.
3. Bare metal: Apply primer as soon as possible.

41 Masonry and rendering preparation

1. Loose and flaking material: Remove.

43 Plaster preparation

1. Nibs, trowel marks and plaster splashes: Scrape off.
2. Overtrowelled 'polished' areas: Provide suitable key.

52 Sealing of internal movement joints

1. General: To junctions of walls and ceilings with architraves, skirtings and other trims.
2. Sealant: Water-borne acrylic.
 - 2.1. Manufacturer: Contractor's choice
 - 2.1.1. Product reference: Contractor's choice
 - 2.2. Preparation and application: As section Z22.

61 Coating generally

1. Application standard: In accordance with BS 6150, clause 9.
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. Priming coats: Apply as soon as possible on same day as preparation is completed.
6. Finish
 - 6.1. Even, smooth and of uniform colour.
 - 6.2. Free from brush marks, sags, runs and other defects.
 - 6.3. Cut in neatly.
7. Doors, opening windows and other moving parts: Ease before coating and between coats.

65 Concealed joinery surfaces

1. General: After priming, apply additional coatings to surfaces that will be concealed when component is fixed in place.
 - 1.1. Components: Biophilia seating and reception desk
 - 1.2. Additional coatings: One undercoat

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.

N10

General fixtures/ furnishings/ equipment

Clauses

95 Live Moss Circle

1. Item: Behind Reception Desk
2. Manufacturer: Moss Life Interiors - Moss Life
 - 2.1. Product reference: Circle Moss Frame
3. Size/ Capacity: 100cm - TBC
4. Material: Wood
5. Finish/ Colour: Black
6. Fixing: As Manufacturers details
7. Other requirements: Brethertons to be cut from black steel and mounted forwards of the moss circle.

To be read with preliminaries/ general conditions.

10 Purpose-made - Biophilia Seating

1. Description: Refer to drawing
2. Timber: American Walnut
3. Wood based boards: Timber slats
4. Finishes: As Section M60
5. Adhesive: As section Z20
6. Fixings:
 - 6.1. Fasteners: To suit
7. Joinery workmanship: As section Z10.
8. Metalwork workmanship: As section Z11.
9. Other requirements:

11 Purpose-made Reception Desk

1. Timber: American Oak melamine
2. Wood based boards: Melamine
3. Finishes: American Oak melamine
4. Adhesive: To suit
5. Fixings:
 - 5.1. Fasteners: To suit
6. Joinery workmanship: As section Z10.
7. Metalwork workmanship: As section Z11.
8. Other requirements: As drawing

30 Purpose-made - Pigeon Holes

1. Description: Post Room Pigeon Holes

N10

General fixtures/ furnishings/ equipment

2. Dimensions: As drawing 7002.602
3. Shelves
 - 3.1. Material: American Oak melamine
4. Carcass or frame
 - 4.1. Material: American Oak melamine

31 Planter System

1. Manufacturer: Orange Box
 - 1.1. Product reference: Wood Mobile Planters
 - WOODS-02
 - WOODS-03
2. Dimensions: 1450 (H) x 1800 (w) x 360 (d)mm
3. Shelves
 - 3.1. Finish/ Colour: Oak Cladding
4. Carcass or frame
 - 4.1. Finish/ Colour: Black
 - 4.2. Foot type: with Glides
5. Components: Manufacturer's standard

70 Blinds Type A - TO EXISTING WINDOWS

1. Manufacturer:
 - 1.1. Product reference: [YewdaleDefiant® VN25 premium venetian blind with wand and cord mechanism](#)
2. Manufacturer: [Yewdale Corporation Ltd](#)
 - 2.1. Contact details
 - 2.1.1. Address: Enterprise Way,
Wickford
SS11 8DH
 - 2.1.2. Telephone: [+44 \(0\) 1268 570900](tel:+44201268570900)
 - 2.1.3. Web: www.yewdale.co.uk
 - 2.1.4. Email: enquiries@yewdale.co.uk
3. Dimensions (minimum width x depth): To suit windows
4. Slats
 - 4.1. Width (maximum): To suit - 3000 mm.
 - 4.2. Material: Aluminium.
 - 4.3. Finish: YewdaleDefiant Roe Fabric.
 - 4.4. Colour: Mid Grey- TBC
5. Headrail
 - 5.1. Material: Aluminium.
 - 5.2. Colour: TBC
6. Operation: Manual, mono chain.

80 Sealant

1. Type: One part silicone
 - 1.1. Manufacturer: Contractor's choice
 - 1.2. Product reference: Contractor's choice
 - 1.3. Cure: Acetory Cure
 - 1.4. Colour: White / clear
2. Other requirements: Fungicidal
3. Application: As section Z22.

N11

Domestic kitchen fittings, furnishings and equipment

To be read with preliminaries/general conditions

10 Fitted base units and wall units

1. Manufacturer: Howdens Joinery Ltd
 - 1.1. Product reference: Allendale - Cashmere
2. Dimensions: To BS EN 1116.
3. Surface finishes: To BS 6222-3.
4. Doors and drawer fronts
 - 4.1. Material: Wood veneer
 - 4.2. Finish and colour: Allendale Cashmere
 - 4.3. Edges: Wood veneer
5. Side panels, plinths and shelves
 - 5.1. Material: Wood veneer
 - 5.2. Finish and colour: Allendale Cashmere
 - 5.3. Edges: Wood veneer
6. Accessories: Hinges, drawers, handles and plinths all as standard.

20 Worktops

1. Manufacturer: Howdens Joinery Ltd
 - 1.1. Product reference: Square Edged Solid Oak Wood
2. Material: Oak
3. Dimensions: To suit layout - 600mm deep
4. Exposed edges: Square edged
5. Support: Off base units or as required

30 Sinks, taps, traps and wastes

1. Sinks
 - 1.1. Manufacturer: Howdens Joinery Ltd
 - 1.1.1. Product reference: Lamona Drayon 1.5 Bowl inset Stainless Steel; code: SNK5176
 - 1.2. Configuration: sink and a half with drainer
 - 1.3. Material: Stainless steel
 - 1.3.1. Colour and finish: Brushed steel
2. Tap/ chainstay/ overflow holes: One tap hole, centre. To be included as standard
3. Taps: Mixer
 - 3.1. Manufacturer: Howdens Joinery Ltd
 - 3.1.1. Product reference: Lamona Nevola Polished Chrome Swan Neck Mixer Tap; Code: TAP1127
 - 3.2. Operation: Dual Lever Handle
 - 3.3. Material : Chromed Steel

N11

4. Wastes: As standard
 - 4.1. Manufacturer: Contractor's choice
 - 4.1.1. Product reference: Contractor's choice
 - 4.2. Size: To fit sink
5. Traps: Tubular, P type
 - 5.1. Manufacturer: Contractor's choice
 - 5.1.1. Product reference: Contractor's choice
 - 5.2. Size: To fit waste
 - 5.3. Material : Plastic
 - 5.4. Depth of seal (minimum): 75 mm.
6. Accessories: None

50 Sealant

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

Execution - Not Used

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: Back to wall, concealed cistern
3. Pan:
 - 3.1. Standards: To BS EN 997 and BS 3402
4. Manufacturer: SanCeram, The Sanitaryware Company, Montagu Court, Kettering Venture Park, Kettering Parkway, Kettering, NN15 6XR. Tel: 01474 338300 Fax: 01474 338301 www.theswc.co.uk
5. Product Reference : Chartham Beyond wall hung rimless WC Ref: CHWC122
6. Material: Vitreous china, white
7. Seat: To BS 1254 and Kitemarked, colour to match pan
 - 7.1. Standard: To BS 1254
 - 7.2. Form : Seat and cover
 - 7.3. Manufacturer : SanCeram
 - 7.3.1. Product Reference : Chartham Beyond slim seat and soft close cover Ref: CHWC124
 - 7.4. Material : Plastics
 - 7.5. Finish/ colour : White
8. Pan connector: To BS 5627, colour to match pan
 - 8.1. Manufacturer: Contractor's choice
9. Cistern::
 - 9.1. Standard: To comply with DEFRA performance specification
 - 9.2. Manufacturer: Tyde
 - 9.3. Product Reference : Osmo T1 Concealed Cat 5, WRAS approved cistern Ref: CIST200
 - 9.4. Material : Plastic
 - 9.5. Finish/ colour : To match pan
10. Flushing arrangement: Cistern manufacturer's standard
 - 10.1. Manufacturer: Tyde
 - 10.1.1. Product reference: Reef dual flush push plate – Chrome Ref: CIST208
 - 10.1.2. Water supply connection: As recommended by manufacturer
11. Flush Pipe:: Concealed
 - 11.1. Manufacturer : Contractor's choice
 - 11.2. Product reference : Contractor's choice
 - 11.3. Material : Plastic
12. Accessories:
 - Floor fixing kit supplied by manufacturer
 - Wall hung brackets - TSWC117

12 Unisex accessible WC equipment packages (Document M)

1. Manufacturer: SanCeram, The Sanitaryware Company, Montagu Court, Kettering Venture Park, Kettering Parkway, Kettering, NN15 6XR. Tel: 01474 338300 Fax: 01474 338301
www.theswc.co.uk
 - 1.1. Product reference: SanCream close coupled, right handed WC Doc M pack with grey seat and rails SCDMCCRG
2. Type approval certificate: Submit.

15 Urinals and cisterns

1. Urinals:
2. Standards: To BS 3402, BS EN 13407
3. Manufacturer: SanCeram, The Sanitaryware Company, Montagu Court, Kettering Venture Park, Kettering Parkway, Kettering, NN15 6XR. Tel: 01474 338300 Fax: 01474 338301
www.theswc.co.uk
4. Product reference: Marden concealed trap urinal Ref: MDUR101
5. Material : Vitreous china, white.
6. Wastes:
 - 6.1. Standards: To BS EN 274-1, 2 & 3
 - 6.2. Manufacturer : SanCeram
 - 6.3. Product Reference : URIN116
 - 6.4. Size : 1 ½"
 - 6.5. Material : Plastic
 - 6.6. Tail : Unslotted
7. Cistern, complete with automatic siphon, petcock and lid :
 - 7.1. Standards: To BS 1876
 - 7.2. Manufacturer : SanCeram
 - 7.3. Product Reference : Concealed 4.5ltr auto cistern and fittings Ref: URIN101
 - 7.4. Material : 4.5ltr
 - 7.5. Flush Volume : 4.5ltr
 - 7.6. Operating Control : Contractor's choice
 - 7.7. Flush Pipe : Contractor's choice
 - 7.8. Product reference : Contractor's choice
 - 7.9. Material : Contractor's choice
8. Accessories:
 - Marden back inlet spreader Ref: MDUR102
 - Supplied with concealed hangers & fixings
9. Option :
 - Chartham unbranded urinal separator and fixings Ref: CHUR107
 - Kinetic room sensor URIN123

25 Sinks CLEANERS CUPBOARD SINKS

1. Standard: To BS EN 13310
2. Manufacturer: Armitage Shanks

- 2.1. Product reference: Birch cleaners sink with bucket grating, ref. S5920(01).
3. Size: 510 x 380mm
4. Material : Glazed fireclay, white.
5. Configuration: Floor standing
6. Tap/ chainstay/ overflow holes:: No tap holes.
7. Water supply fittings:: 43°C.
 - 7.1. Flow rate (maximum): 6 L/ min. at 3 bar.
 - 7.2. Manufacturer: As sink
 - 7.3. Product Reference : Alterna 1/2 bib)taps, ref. B1457(AA), Bib tap mount, ref. B1686(AA).
8. Wastes: Grated
 - 8.1. Standards: To BS EN 274-1, -2 and -3.
 - 8.2. Manufacturer: Armitage Shanks
 - 8.2.1.Product reference: 8726(AA).
 - 8.3. Material: Plastics, self-colour.
 - 8.4. Tail: Unslotted
9. Traps: 1.5" plastic trap pastic bottle with 75mm seal.
 - 9.1. Standards: To BS EN 274-1, -2 and -3.
 - 9.2. Manufacturer: Armitage Shanks.
 - 9.2.1.Product reference : S8915(67).
 - 9.3. Material : Plastics, self-colour.
 - 9.4. Depth of seal (minimum): 75 mm.
10. Accessories: Sink Support, ref. 8726(AA), Domex screw pack, ref. S9101(01).

30 Washbasins

1. Type:
2. Manufacturer: SanCeram, The Sanitaryware Company, Montagu Court, Kettering Venture Park, Kettering Parkway, Kettering, NN15 6XR. Tel: 01474 338300 Fax: 01474 338301
www.theswc.co.uk
 - 2.1. Product reference: · Langley vessel basin, no taphole or overflow ref LLWB108
 · Size 395mm x 325mm
 - 2.2. Material : Viterous china, white
3. Taps:
 - 3.1. Water supply fittings::
 - 3.1.1.Manufacturer : SanCeram
 - 3.1.2.Product reference : SanCeram Tall Hartley Basin Mixer HABW102
 - 3.1.3.Operation : Lever
4. Wastes:
 - 4.1. Standards: To BS EN 274-1, 2 & 3
 - 4.2. Manufacturer: SanCeram
 - 4.3. Product Reference : Strainer waste ref TSWC102
 - 4.4. Size: 1 ¼"
 - 4.5. Material : Chrome plated

- 4.6. Tail : Unslotted
5. Traps:
 - 5.1. Standards: SanCeram
 - 5.2. Manufacturer : SanCeram
 - 5.3. Product reference: TSWC112
 - 5.4. Size: 1 ¼"
 - 5.5. Material : Metal
 - 5.6. Depth of seal : 75mm
6. Accessories:
 - Thermostatic mixing valve ref SCBW113 and 15mm isolating valve ref ISOVALVE.
Supplied with Fischer wall fixings
 - Overflow adapter TSWC111

43 Shower Units

1. Manufacturer: SanCeram, The Sanitaryware Company, Montagu Court, Kettering Venture Park, Kettering Parkway, Kettering, NN15 6XR. Tel: 01474 338300 Fax: 01474 338301
www.theswc.co.uk
2. Tray::
 - 2.1. Product Reference : - SanCeram 35mm 1000 x 800mm touchstone shower tray Ref : STRC35108
 - 2.2. Size : 1000x800mm
 - 2.3. Material: Stone Resin
3. Shower Fittings::
 - 3.1. Manufacturer : Deva
 - 3.2. Product Reference : Substance 3 function signature shower kit Ref : SIGKITM02
 - 3.3. Finish : Chrome plated
4. Operating Control: :
 - 4.1. Manufacturer: SanCeram
 - 4.2. Product Reference : Vision Thermostatic Shower Valve Ref : VSNVSEQ02
 - 4.3. Material : Chrome plated
 - 4.4. Tail : N/A
5. Trap::
 - 5.1. Standards: To BS EN 274-1, 2 & 3
 - 5.2. Manufacturer: As Tray
 - 5.3. Product Reference : 90mm Chrome Domed waste. Ref: SHWT102
 - 5.4. Depth of seal : 50mm
6. Enclosure :
 - 6.1. Manufacturer : SanCeram
 - 6.2. Product Reference : Sanceram 1000mm slider shower door Ref : MBS1000

60 Toilet paper holders

1. Manufacturer: Dolphin Solutions
- Web: www.dolphinsolutions.co.uk.

- Email: info@dolphinsolutions.co.uk.

Or approved equivalent

- 1.1. Product reference: BC925 Stainless steel Mini Jumbo dispenser
2. Type: Toilet roll holder, wall mounted
3. Material: Stainless steel
4. Colour: Brushed satin finish stainless steel

62 Soap dispensers

1. Manufacturer: Dolphin Solutions
 - Web: www.dolphinsolutions.co.uk.
 - Email: info@dolphinsolutions.co.uk.Or approved equivalent
- 1.1. Product reference: DP1107 Foam soap dispenser
2. Material: Stainless steel
3. Colour: Self-coloured

63 Glass mirrors

1. Manufacturer: Anderson, GED Ltd.
 - Web: www.gecanderson.co.uk.
 - Email: info@gecanderson.co.uk.Or approved equivalent.
- 1.1. Product reference: Stainless Steel Mirrors
2. Edges: Square corners
3. Size: As drawings
4. Pre-drilled holes: Required
5. Normal fixings : Screws
6. Protective backing: Mirror backing foil.

64 Hand dryers

1. Standard: To BS EN 60335-2-23.
2. Type: High-velocity air
3. Manufacturer: Dolphin Solutions
 - Web: www.dolphinsolutions.co.uk.
 - Email: info@dolphinsolutions.co.uk.Or approved equivalent
- 3.1. Product reference: BC2001 Satin Brushed Stainless steel
4. Heater power rating: Not applicable
5. Controls: Automatic
6. Enclosure: Stainless steel
- 6.1. Colour: Self-coloured

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

70 Installation generally

1. 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.
2. 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.

73 Installing sanitary appliances and fittings

1. Extent
 - 1.1. Sanitary appliances: As sanitary schedule
 - 1.2. Water supply fittings: As sanitary schedule
 - 1.3. Accessories: As sanitary schedule

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.

81 Sealant bedding and pointing

1. Bedding: Bed sinks to top of worktops
2. Pointing: Joints between appliances and splashbacks

N15

Internal fire and safety signage systems

General

110 Fire and safety signage systems GENERALLY - ALL AREAS

1. System manufacturer: Jalite Plc
 - 1.1. System reference: Self Adhesive photoluminescent signage
 - 1.1.1. Fire Alarm Location/ break glass : 6421A - 100 x 100mm sign
 - 1.1.2. Fire extinguisher location: 6422A - 100 x 100mm sign
 - 1.1.3. Fire Exit Signage : 435T - 120 x 340mm
 - 430T - 120 x 340mm
 - 439T - 120 x 340mm
 - 433T - 120 x 340mm
 - 436T - 120 x 340mm
 - 437T - 120 x 340mm
 - 1.1.4. Fire Action Notice : 5 Point Fire Action Notice/ Do not take any risks signage
2. Location and layout: Refer to Fire compartmentation drawings
 - 2.1. Language: English.
3. Material: Plastic sheet
 - 3.1. Other properties: Photoluminescent

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 guiding system design:
 - 1.1. For fire escape and evacuation signage: In accordance with: BS 5499-4 or BS ISO 16069.
 - 1.2. For way guiding 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: Building Operation Report

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.

P12

Fire-stopping systems

General

10 Fire-stopping to individual services penetrations:

1. Resistance to fire: As clause 17
2. Penetration seal: Intumescent foam, as clause 36
3. Capping sealant: Sealant, as clause 47

16 Linear gap sealing

1. Fire resistance: As clause 17
2. Gap width or height (nominal): 15 mm
3. Gap filler: Sealant backing material, as clause 46
4. Capping sealant: Sealant, as clause 47

17 Fire performance

1. Resistance to fire: To BS EN 13501-2, E30 or better
2. Reaction to fire: To BS EN 13501-1, Class A1

Products

30 Product certification

1. Certification: For products specified generically, submit evidence of compliance with the specification
2. Acceptable evidence: Agrément certificate

34 Intumescent mastic

1. Manufacturer: Envirograf or approved equivalent
 - 1.1. Product reference: AM Mastic - Envirograf Intumescent Acrylic High Pressure Mastic
Product number: 58

36 Intumescent foam

1. Manufacturer: [Nullifire – a brand of CPG UK Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Tremco CPG UK Limited
Coupland Road
Hindley Green
Wigan
Greater Manchester
WN2 4HT
 - 1.1.2. Telephone: [+44 \(0\) 1942 251 400](tel:+44201942251400)
 - 1.1.3. Web: www.nullifire.com
 - 1.1.4. Email: hello@cpg-europe.com
 - 1.2. Product reference: [Nullifire FF197](#)

37 Intumescent trunking pillows

1. Manufacturer: Envirograf or approved equivalent
 - 1.1. Product reference: Intumescent Trunking pillows
Product ref: 27

46 Sealant backing material

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

47 Sealant

1. Manufacturer: Envirograf
 - 1.1. Product reference: Silicone Sealant
Product Ref: 62

Execution

61 Third-party-certified installer

1. Certification: For the technical competency of the installer of the evidence of compliance with a third-party installation certification scheme
2. Acceptable evidence: UKAS Accreditation Certificate

62 Workmanship generally

1. Gaps: Seal gaps between building elements and services, to provide fire resistance and resist the passage of smoke
2. Adjacent surfaces: Prevent overrun of sealant or mortar on to finished surfaces

63 Installing flexible intumescent gap sealer

1. Fitting of strips: Compress strips and fit into gap, so that, as they decompress the strips wedge themselves in the void
2. Shrink wrapping: Not applicable
3. Joints
 - 3.1. Ends of strips: Fit intumescent 'end piece' at both ends of run of stop laminate
 - 3.2. Joints between strips: Fit two intumescent 'end pieces' at each butt joint

64 Applying intumescent foam

1. New joints: Remove builders' debris, mortar droppings, grease, and other contaminants
2. Old joints: Clean and remove existing sealant from each joint
3. Priming: Lightly moisten substrate with water
4. Application: Fill joint to approximately half its depth, and allow foam to expand to face of joint
5. Trimming: Trim excess foam to give a neat, flush appearance

73 Applying sealants generally

1. Application: As section Z22

74 Applying capping sealant

1. Preparation: De-grease using cleaner recommended by sealant manufacturer
2. Priming: Primer recommended by sealant manufacturer
3. Depth of sealant: 10 mm
4. Temperature: Do not apply water-based sealants when they could be damaged by frost

Completion

91 Cleaning

1. Masking tapes: Remove
2. Cleaning: Clean off splashes and droppings. Wipe down finishes

92 Inspection

1. Notice for inspection (minimum): Five working days

P20

Unframed isolated trims/ skirtings/ sundry items

To be read with preliminaries/ general conditions.

20 Hardwood

1. Description: SKIRTINGS GENERALLY
2. Quality of wood and fixing: To BS 1186-3.
 - 2.1. Species: European oak
 - 2.2. Class: 1
3. Moisture content at time of fixing: 9 -13%
4. Preservative treatment: Not required
5. Fire rating: Not applicable
6. Profile: Rectangular, with a 10mm wide x 6mm deep groove set 25mm down from the top edge
 - 6.1. Finished size: 125 x 22mm
7. Finish as delivered: One coat clear finish as M60
8. Fixing: Plugged, screwed and pelleted at 450mm centres

35 Medium-density fibreboard Skirtings

1. Manufacturer: Howdens
 - 1.1. Product reference: MODO804
2. Standard: To BS EN 622-5.
 - 2.1. Type: MDF
 - 2.2. Formaldehyde class: To BS EN 622-1, class E1.
3. Fire rating:
4. size: 120 x 18mm
5. Edges: Ogee
6. Finish: Prepared and primed as M60
7. Support/ Fixing: Fix to softwood grounds with lost head nails at 600 mm centres

80 Installation generally

1. Joinery workmanship: As section Z10.
2. Metal workmanship: As section Z11.
3. Methods of fixing and fasteners: As section Z20.
4. Straight runs: To be in one piece, or in long lengths with as few joints as possible.
5. Running joints: Location and method of forming to be agreed where not detailed.
6. Joints at angles: Mitre, unless shown otherwise
7. Position and level: To be agreed where not detailed.

P21

Door/ window ironmongery

To be read with preliminaries/ general conditions.

3 Quantities and locations

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

8 Door hinges

1. Manufacturer: Contractor's choice
 - 1.1. Product reference: Submit proposals
2. Type: As schedule
3. Size: As schedule
4. Material/ finish: Satin stainless steel, grade 1.4301 (304)
5. Other requirements: None

12 Overhead door closers Type A

1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details
 - 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
 - 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44201213594415)
 - 1.1.3.Web: www.allgood.co.uk
 - 1.1.4.Email: info@allgood.co.uk
 - 1.2. Product reference: [9156A](#)
2. Closer Casing finish: SS - Plated stainless steel
3. Accessories: Not required

24 Door locks

1. Standard: To BS EN 12209.
2. Manufacturer: Eurospec or similar approved
3. Type: Cylinder mortice lock
4. Backset: 44 mm
5. Material/ finish: Stainless steel faceplate
6. Keying: In master keyed suite

36 Privacy indicator bolts Type A

1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details

- 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
- 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44%20121%20359%204415)
- 1.1.3.Web: www.allgood.co.uk
- 1.1.4.Email: info@allgood.co.uk
- 1.2. Product reference: [771Q2529](#)
- 2. Finish: SA

38 Lever handles Type A

- 1. Manufacturer: [ASSA ABLOY Opening Solutions UK & Ireland](#) or similar approved
 - 1.1. Contact details
 - 1.1.1.Address: ASSA ABLOY UK Ltd
School Street
Willenhall
West Midlands
WV13 3PW
 - 1.1.2.Telephone: [+44 \(0\)1902 364120](tel:+44%201902%20364120)
 - 1.1.3.Web: www.assaabloy.co.uk
 - 1.1.4.Email: emily.benson@assaabloy.com
 - 1.2. Product reference: [Series 1000 Lever Handles](#)
- 2. Springing: Sprung
- 3. Finish: SS – Satin stainless steel.
- 4. Accessories: 1000-OE

42 Pull handles Type A

- 1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details
 - 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
 - 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44%20121%20359%204415)
 - 1.1.3.Web: www.allgood.co.uk
 - 1.1.4.Email: info@allgood.co.uk
 - 1.2. Product reference: [1720](#)
- 2. Finish: SS
- 3. Fixings: BT

44 Push plates Type A

- 1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details

- 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
- 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44(0)1213594415)
- 1.1.3.Web: www.allgood.co.uk
- 1.1.4.Email: info@allgood.co.uk
- 1.2. Product reference: [6801G](#)
- 2. Finish: SS

46 Kick plates Type A

- 1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details
 - 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
 - 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44(0)1213594415)
 - 1.1.3.Web: www.allgood.co.uk
 - 1.1.4.Email: info@allgood.co.uk
 - 1.2. Product reference: [6851](#)
- 2. Size: 150mm high
- 3. Finish: SS

48 Escutcheons Type A

- 1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details
 - 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
 - 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44(0)1213594415)
 - 1.1.3.Web: www.allgood.co.uk
 - 1.1.4.Email: info@allgood.co.uk
 - 1.2. Product reference: [750](#)
- 2. Finish: SS

50 Door stops Type A

- 1. Manufacturer: [Allgood plc](#) or similar approved
 - 1.1. Contact details
 - 1.1.1.Address: 63-83 Brearley Street
Birmingham
United Kingdom
B19 3NT
 - 1.1.2.Telephone: [+44 \(0\)121 359 4415](tel:+44(0)1213594415)

1.1.3.Web: www.allgood.co.uk

1.1.4.Email: info@allgood.co.uk

1.2. Product reference: [2301](#)

2. Finish: Manufacturer's standard

Z10

Purpose made joinery

To be read with preliminaries/ general conditions.

110 Fabrication

1. Standard: To BS 1186-2.
2. Sections: Accurate in profile and length, and free from twist and bowing. Formed out of solid unless shown otherwise.
 - 2.1. Machined surfaces: Smooth and free from tearing, wooliness, chip bruising and other machining defects.
3. Joints: Tight and close fitting.
4. Assembled components: Rigid. Free from distortion.
5. Screws: Provide pilot holes. Heads of countersunk screws sunk at least 2 mm below surfaces visible in completed work.

120 Cross section dimensions of timber

1. General: Dimensions on drawings are finished sizes.
2. Maximum permitted deviations from finished sizes
 - 2.1. Softwood sections: To BS EN 1313-1.
 - 2.2. Hardwood sections: To BS EN 1313-2.

130 Preservative treated wood

1. Cutting and machining: Completed as far as possible before treatment.
2. Extensively processed timber: Retreat timber sawn lengthways, thickened, planed, ploughed, etc.
3. Surfaces exposed by minor cutting and/ or drilling: Treat as recommended by main treatment solution manufacturer.

140 Moisture content

1. Wood and wood based products: Maintained within range specified for the component during manufacture and storage.

250 Finishing

1. Surfaces: Smooth, even and suitable to receive finishes.
 - 1.1. Arrises: Eased unless shown otherwise on drawings.
2. End grain in external components: Sealed with primer or sealer as section M60 and allowed to dry before assembly.

Z12**Preservative/ fire retardant treatment***To be read with preliminaries/ general conditions.****110 Treatment application***

1. Timing: After cutting and machining timber, and before assembling components.
2. Processor: Licensed by manufacturer of specified treatment solution.
3. Certification: For each batch of timber provide a certificate of assurance that treatment has been carried out as specified.

120 Commodity specifications

1. Standard: Current edition of the Wood Protection Association (WPA) publication 'Industrial wood preservation specification and practice'.

130 Preservative treatment solution strengths/ treatment cycles

1. General: Select to achieve specified service life and to suit treatability of specified wood species.

150 Water-based organic preservative treatment

1. Solution
 - 1.1. Manufacturer: Contractor's Choice
 - 1.1.1. Product reference: Submit proposals
 - 1.2. Application: High pressure impregnation.
2. Moisture content of wood
 - 2.1. At time of treatment: Not more than 28%.
 - 2.2. After treatment: Timber to be surface dry before use.

160 Organic solvent preservative treatment

1. Solution
 - 1.1. Manufacturer: Contractor's Choice
 - 1.1.1. Product reference: Submit proposals
 - 1.2. Application: Double vacuum + low pressure impregnation, or immersion.
2. Moisture content of wood
 - 2.1. At time of treatment: As specified for the timber/ component at time of fixing.
 - 2.2. After treatment: Timber to be surface dry before use.

210 Flame-retardant treatment

1. Solution type: INT2
 - 1.1. Manufacturer: Contractor's Choice
 - 1.1.1. Product reference: Submit proposals
 - 1.2. Application: Vacuum + pressure impregnation.
2. Moisture content of wood
 - 2.1. At time of treatment: As specified for the timber/ component at time of fixing.

- 2.2. After treatment: Timber to be redried slowly at temperatures not exceeding 60°C to minimize distortion and degradation.

610 Making good to preservative treatment on site

1. Fire retardant/ preservative solution: Compatible with off-site treatment.
2. Application: In accordance with preservative manufacturer's recommendations.

Z20

Fixings and adhesives

Clauses

25 Fastener durability

1. Materials: To have:
 - 1.1. Bimetallic corrosion resistance appropriate to items being fixed.
 - 1.2. Atmospheric corrosion resistance appropriate to fixing location.
2. Appearance: Submit samples on request.

Products

310 Fasteners generally

1. Integrity of supported components: Select types, sizes, quantities and spacings of fixings, fasteners and packings to retain supported components without distortion or loss of support.
2. Components, substrates, fixings and fasteners of dissimilar metals: Isolate with washers or sleeves to avoid bimetallic corrosion.
3. General usage: To recommendations of fastener manufacturers and/ or manufacturers of components, products or materials fixed and fixed to.
4. Fixings: To be in straight lines, at regular centres.

320 Packings

1. Materials: Noncompressible, corrosion proof.
2. Area of packings: Sufficient to transfer loads.

Execution

620 Fixing through finishes

1. Penetration of fasteners and plugs into substrate: To achieve a secure fixing.

640 Fixing cramps

1. Fasteners: Fix cramps to frames with screws of same material as cramps.
2. Fixings in masonry work: Fully bed in mortar.

670 Pelleted countersunk screw fixing

1. Finished level of countersunk screw heads: Minimum 6 mm below timber surface.
2. Pellets: Cut from matching timber, grain matched, glued in to full depth of hole.
3. Finished level of pellets: Flush with surface.

680 Plugged countersunk screw fixing

1. Finished level of countersunk screw heads: Minimum 6 mm below timber surface.
2. Plugs: Glue in to full depth of hole.
3. Finished level of plugs: Projecting above surface.

700 Applying adhesives

1. Surfaces: Clean. Regularity and texture to suit bonding and gap filling characteristics of adhesive.
2. Finished adhesive joints: Fully bonded. Free of surplus adhesive.

Z21 Mortars

Clauses

10 Mortar mixes

1. Specification: Proportions and additional requirements for mortar materials are specified elsewhere.

Cement gauged mortars

120 Sand for site made cement gauged masonry mortars

1. Standard: To BS EN 13139.
2. Grading: 0/2 (FP or MP).
 - 2.1. Fines content where the proportion of sand is specified as a range (e.g. 1:1: 5-6):
 - 2.1.1. Lower proportion of sand: Use category 3 fines.
 - 2.1.2. Higher proportion of sand: Use category 2 fines.
3. Sand for facework mortar: Maintain consistent colour and texture. Obtain from one source.

160 Cements for mortars

1. Cement: To BS EN 197-1 and CE marked.
 - 1.1. Types: Portland cement, CEM I.
 - 1.1.1. Portland limestone cement, CEM II/A-LL.
 - 1.1.2. Portland slag cement, CEM II/B-S.
 - 1.1.3. Portland fly ash cement, CEM II/B-V.
 - 1.2. Strength class: 32.5, 42.5 or 52.5.
2. Portland slag cement, CEM II/B-S.
3. Portland fly ash cement, CEM II/B-V.
 - 3.1. Strength class:
4. White cement: To BS EN 197-1 and CE marked.
 - 4.1. Type: Portland cement, CEM I.
 - 4.2. Strength class: 52.5.
5. Sulfate resisting Portland cement
 - 5.1. Types: To BS EN 197-1 Sulfate resisting Portland cement, CEM I/SR and CE marked.
 - 5.1.1. To BS EN 197-1 fly ash cement, CEM II/B-V and CE marked.
 - 5.2. Strength class: 32.5, 42.5 or 52.5.
6. To BS EN 197-1 fly ash cement, CEM II/B-V and CE marked.
 - 6.1. Strength class:
7. Masonry cement: To BS EN 413-1 and CE marked.
 - 7.1. Class: MC 12.5.

180 Admixtures for site made cement gauged mortars

1. Air entraining (plasticizing) admixtures: To BS EN 934-3 and compatible with other mortar constituents.
2. Other admixtures: Submit proposals.
3. Prohibited admixtures: Calcium chloride, ethylene glycol and any admixture containing calcium chloride.

Lime:sand mortars - Not Used

Z22 Sealants

Products

310 Joints GENERALLY

1. Primer, backing strip, bond breaker: Types recommended by sealant manufacturer.

Execution

610 Suitability of joints

1. Presealing checks
 - 1.1. Joint dimensions: Within limits specified for the sealant.
 - 1.2. Substrate quality: Surfaces regular, undamaged and stable.
2. Joints not fit to receive sealant:

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.

