

MSA Decant Appraisal

11264-CAA-05-XX-SP-A-010001 – Architectural Specification

Date:- 09-02-2022
Status:- D2 - TENDER
Rev:- P1

Contents

C20 Demolition	1
K10 Gypsum board dry linings/ partitions/ ceilings	6
K32 Panel cubicles/ duct and wall linings	13
K40 Demountable suspended ceilings	15
L10 Windows/ rooflights/ screens/ louvres	18
L20 Doors.....	21
M50 Vinyl flooring/ carpet tiling/ matting/ wall tiling	25
M52 Decorative papers/ fabrics	33
M60 Painting/clear finishing.....	34
N13 Sanitary appliances and fittings	39
N15 Internal fire and safety signage systems	43
P12 Fire-stopping systems	45
P20 Unframed isolated trims/ skirtings/ sundry items	50
P21 Door/ window ironmongery	52
Z20 Fixings and adhesives.....	56

C20 Demolition

General requirements

110 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:
 - 2.2. 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.
 - 2.3. Identity and location of services above and below ground, including those required for the Contractor's use, and arrangements for their disconnection and removal.
 - 2.4. Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - 2.5. Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - 2.6. Proposed programme of work, including sequence and methods of deconstruction/ demolition.
 - 2.7. Details of specific pre-weakening required.
 - 2.8. Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - 2.9. Arrangements for control of site transport and traffic.
 - 2.10. **Special requirements:** Disposal methods for gypsum-based products Site waste management plan development and proposals
3. **Format of report:** Electronic

120 Extent of deconstruction/ demolition

1. **General:** Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to levels as shown on drawings.

140 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.

Services affected by deconstruction/ demolition

210 Services regulations

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

220 Location of services

1. **Services affected by deconstruction/ demolition work:** Locate and mark positions.

2. **Mains services marking:** Arrange with the appropriate authorities for services to be located and marked.
 - 2.1. **Marking standard:** In accordance with National Joint Utilities Group 'Guidelines on the positioning and colour coding of underground utilities' apparatus'.

230 Services disconnection arranged by contractor

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

231 Services disconnection arranged by employer

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

232 Services disconnection arranged by employer and contractor

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

240 Disconnection of drains

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

250 Live foul and surface water drains

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

260 Service bypass connections

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

270 Services to be retained

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

Deconstruction/ demolition work

310 Workmanship

1. **Standard:** Demolish structures in accordance with BS 6187.

2. Operatives

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

320 Gas or vapour risks

1. Precautions: Prevent fire and/ or explosion caused by gas and/ or vapour from tanks, pipes, etc.

330 Dust control

1. General: Reduce airborne dust by periodically spraying deconstruction/ demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris.
2. Lead dust: Submit method statement for control, containment and clean-up regimes.

340 Health hazards

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

350 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.

360 Structures to be retained

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

370 Partly demolished structures

1. General: Leave 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.

380 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.

390 Asbestos-containing materials – known occurrences

1. General: Materials containing asbestos are known to be present in:
2. Removal:

391 Asbestos-containing materials – unknown occurrences

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

410 Unforeseen hazards

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

420 Open basements, etc

1. **Temporary support:** Leave adequate buttress walls or provide temporary support to basement retaining walls up to ground level.
2. **Safety:** Make remaining sections of retaining and buttress walls safe and secure.
3. **Water movement:** Make holes in basement floors to allow water drainage or penetration (depending on water table). Provide a hole for every 10 m², not less than 600 mm in diameter.

430 Filling of basements, etc

1. **Temporary support:** Leave adequate buttress walls or provide temporary support to basement retaining walls up to ground level.
2. **Water movement:** Make holes in basement floors to allow water drainage or penetration (depending on water table). Provide a hole for every 10 m², not less than 600 mm in diameter.
3. **Filling:** Remove organic material and soil from basements and other voids. Fill and consolidate with

442 Site surface at completion

1. **Levels:** Grade the site to follow the levels of adjacent areas.
2. **Temporary surface:** Cover the site with

450 Site condition at completion

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

Materials arising

510 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.

511 Employer's property

1. **Components and materials to remain the property of the Employer:**
2. **Protection:** Maintain until these items are removed by the Employer or reused in the Works, or until the end of the Contract.
3. **Special requirements:**

520 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.
2. **Evidence of compliance:** Submit full details and supporting documentation.
 - 2.1. **Verification:** Allow adequate time in programme for verification of compliance.

Ω End of Section

K10

Gypsum board dry linings/ partitions/ ceilings

Types of dry lining

125 Metal stud partition system Wall Type A

1. **Description:** New metal stud partition system with plasterboard & skim lining to each side
2. **Manufacturer:** British Gypsum, East Leake, Loughborough, Leicestershire LE12 6HX
Website: www.british-gypsum.com,
Tel: 0115 945 6123, E-Mail: bgtechnical.enquiries@bpb.com.
 - 2.1. **Product reference:** **GypWall CLASSIC** - Metal stud.
 - 2.2. **System reference:** A206166 (A) (EN)
 - 2.3. **Nominal thickness:** 122mm. (excluding finishes)
 - 2.4. **Performance criteria:**
 - Fire resistance to BS EN 1364-1: 60 minutes
 - Sound insulation: Rw 49 dB.
 - Partition duty to BS 5234: Parts 1 and 2: Severe.
 - 2.5. **Maximum height:** 4600mm.
The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous.
 - 2.6. **Framing:**
 - **Studs:** Gypframe 70 S 50 at 600mm centres and Gypframe 70 S 50 at abutments, openings and junctions.
 - **Stud boxing:** n/a
 - **Floor channel:** Gypframe 72 FEC 50 (height up to 4200mm), 72 DC 60 (heights up to 8000mm), 72 EDC 80 (heights over 8000mm).
 - **Head channel:** 4260mm wide. As floor channel or as determined by deflection criteria.
 - **Fixing T:** Gypframe GFT1 to support horizontal joints of single layer board lining.
 - **Fixing strap:** Gypframe GFS1 to support horizontal joints in face layer of double layer board linings, or as an alternative to fixing T for single layer board linings.
3. **Head condition:** Suitably fixed up to structural soffit with deflection head detail in accordance with British Gypsum details and recommendations.
 - 3.1. **Deflection allowance:** To be determined by the Structural Engineer
4. **Insulation:** Not required
5. **Linings:** Two layers 12.5mm Gyproc SoundBloc, sheet width 1200mm, to both sides of framing.
 - 5.1. **Fixing:** As clause 591A
 - 5.2. **Screws:** Screws: 25mm & 35mm British Gypsum Drywall Screws.
 - 5.3. **Sealant:** As clause 516A
6. **Finishing:** 2mm Thistle Skim coat plaster (General use) as clause 681A
 - 6.1. **Primer/ Sealer:** As recommended by board manufacturer
 - 6.2. **Accessories:** Metal beads/ stops recommended by board manufacturer

Siderise FIP to window mullion abutments as clause 126

7. **Other requirements:** Fire-stopping around services as section P12

126 Acoustic Panel Abutment System

1. **Manufacturer:** [Siderise Group](#)

1.1. Contact details

1.1.1. Address: Forge Industrial Estate
Maesteg
Bridgend
Mid Glamorgan
United Kingdom
CF34 0AH

1.1.2. Telephone: +44 (0)1656 730833

1.1.3. Web: www.siderise.com

1.1.4. Email: sales@siderise.com

1.2. Product reference: [SIDERISE FIP High Performance Acoustic Panel](#)

2. Material: Cementitious boards, elastomeric core.
3. Finish: Sanded and painted
4. Size: 2400 x 600 x 31 mm.
5. Fire performance: To BS EN 1363-1; BS EN 1366-4.
6. Acoustic performance: 46 dB Rw.
7. Finishing: Seamless jointing
- 7.1. Accessories: Powder coated aluminium channel support frames.

205 Lining on timber sub-frame Wall Type B

1. Description: Built out walls
2. Background: Timber joists 50 x 75mm
3. Fire performance
 - 3.1. Fire resistance: Not required
4. Linings: 1no. 12mm Plywood inner layer.
1no. 12.5mm Wallboard outer layer.
Skim finish
to 1 side of wall only.
 - 4.1. Fixing: Screws
5. Finishing: Taped joints and Skim coat plaster
 - 5.1. Primer/ Sealer: Primer to painted areas

206 Lining on timber sub-frame Wall Type C

1. Description: Built in store areas
2. Background: Timber joists 50 x 75mm
3. Fire performance
 - 3.1. Fire resistance: Not required
4. Linings: 1 Layer 15mm MDF
 - 4.1. Fixing: Screws
5. Finishing: Board joints covered with 15 x 50mm MDF strips to create feature mouldings
 - 5.1. Primer/ Sealer: Primer to painted areas

220 Proprietary suspended ceiling system

1. Standard: To BS EN 13964.
2. Evidence of compliance: All ceilings kits to be CE marked. Submit Declaration of Performance (DoP).

3. **Manufacturer:** British Gypsum, East Leake, Loughborough, Leicestershire LE12 6HX
Website: www.british-gypsum.com,
Tel: 0115 945 6123, E-Mail: bgtechnical.enquiries@bpb.com.
3.1. **Product reference:** Casoline MF
4. **Fire performance**
4.1. **Reaction to fire:**
5. **Lining board:** one layer of 12.5 mm Wallboard fixed in accordance with Manufacturers specifications
5.1. **Finishing:** 2/3mm skim coat
5.2. **Accessories:** Metal beads/ stops recommended by lining board manufacturer
6. **Suspension system**
6.1. **Primary grid:** Gypframe MF7 channels at 1200mm centres, suspended from hangers at 1200mm centres.
6.2. **Secondary grid:** Gypframe MF5 sections at 450mm centres, fixed to primary grid with British Gypsum Wafer Head Jack-Point Screws or alternatively Gypframe MF9 clips.
6.3. **Perimeters:** Gypframe MF6 channel.
6.4. **Hangers:** Gypframe MF8 Strap hanger or Gypframe FEA1 Steel angle fixed to existing timber joists via Gypframe MF12 Soffit Cleats
7. **Access units:** Required - As K10/430

General/ preparation

305 Compliance with performance requirements

1. **Testing/ Assessment:** Submit UKAS accredited laboratory reports for the following:
2. **Materials, components and details:** As used in testing/ assessment reports. If discrepancies arise, give notice.

335 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.

Components

400 Gypsum boards generally

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

430 Access panels where required by M+E Consultant for access to services for maintenance.

1. **Description:** Manufacturer: Artex Limited.
Standard Panels –
Contact T: 0800 032 6345,

E: artexcustomerservice@saint-gobain.com

Bespoke Panels – Contact T: 0115 984 9116, E: commercial.support@saint-gobain.com

Installation

435 Dry linings generally

1. **General:** Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.
2. **Cutting gypsum boards:** Neatly and accurately without damaging core or tearing paper facing.
 - 2.1. **Cut edges:** Minimize and position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.
3. **Fixings boards:** Securely and firmly to suitably prepared and accurately levelled backgrounds.
4. **Finishing:** Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

445 Ceilings

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

455 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.

510 Sealing gaps and air paths

1. **Location of sealant:** To perimeter abutments and around openings.
 - 1.1. **Pressurized shafts and ducts:** At board-to-board and board-to-metal frame junctions.
2. **Application:** To clean, dry and dust free surfaces as a continuous bead with no gaps.
 - 2.1. **Gaps greater than 6 mm between floor and underside of gypsum board:** After sealing, fill with jointing compound.

555 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.

560 Joints between boards

1. **Tapered edged gypsum boards**
 - 1.1. **Bound edges:** Lightly butted.
 - 1.2. **Cut/ unbound edges:** 3 mm gap.
2. **Square edged plasterboards:** 3 mm gap.

3. Square edged gypsum fibre boards: 5 mm gap.

565 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.

570 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.

575 Plank plasterboard

1. First layer in two layer boarding: Square edged with long edges at right angles to studs.

590 Fixing gypsum board to metal framing.

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.

595 Deflection heads

1. Fixing boards: Do not fix to head channels.

610 Fixing gypsum board to timber

1. Fixing to timber: Securely at the following centres (maximum):
 - 1.1. Screws to partitions/ wall linings: 300 mm. Reduce to 200 mm at external angles.
 - 1.2. 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.

620 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:
4. Thickness (mm) Width (mm) Dab centres (mm)

5. 12.5 1200 600
6. Adhesive dab dimensions (width x length): At least 50-75 mm x 250 mm.
 - 6.1. Position of dabs from edges/ ends of boards (minimum): 25 mm.

Finishing

650 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.

670 Seamless jointing to gypsum boards

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 paper tape, fully bedded.
3. Protection of edges/ corners: Reinforce external angles, stop ends, etc. with specified edge/ angle bead.
4. Finishing: Apply jointing compound. Feather out each application beyond previous application to give a flush, smooth, seamless surface.
5. Nail/ screw depressions: Fill with jointing compound to give a flush surface.
6. Minor imperfections: Remove by light sanding.

680 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.

692 Rigid beads/stops

1. Internal: To BS EN 13658-1.
2. External: To BS EN 13658-2.

695 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.

725 Repairs to existing gypsum board

1. Performance of repairs must match original specified performances.

2. **Filling small areas with broken cores:** Cut away paper facing, remove loose core material and fill with jointing compound.
 - 2.1. **Finish:** Flush, smooth surface suitable for redecoration.
3. **Large patch repairs:** Cut out damaged area and form neat hole with rectangular sides. Replace with matching gypsum board.
 - 3.1. **Fixing:** Use methods to suit type of dry lining, ensuring full support to all edges of existing and new gypsum board.
 - 3.2. **Finishing:** Fill joints, tape and apply jointing compound to give a flush, smooth surface suitable for redecoration.

Ω End of Section

K32

Panel cubicles/ duct and wall linings

To be read with preliminaries/ general conditions.

150 Duct/ wall linings – panels and proprietary frames to sanitary accomodation

1. **Manufacturer: TBS Amwell** (or equal client approved)
Northern Office:
Martens Road
Northbank Industrial Park
Irlam, Manchester
M44 5AX
T: +44 (0)1763 276200
E: contact@tbs-amwell.co.uk
 - 1.1. **Product reference:** PDQ Panel & Frame.
2. **Panels**
 - 2.1. **Type:** Plain, full height. Approx 2400mm
 - 2.1.1. **Width (coordinating):** Manufacturers standard width panel to suit overall width required.
Refer to drawings.
 - 2.2. **Core material:** Moisture resistant chipboard
 - 2.2.1. **Thickness:** 18mm
 - 2.3. **Facings:** Faced one side with high pressure laminate (HPL), reverse side to be faced with balancing HPL.
 - 2.3.1. **Colour/ Pattern/ Species:** Refer to Finishes Schedule.
 - 2.4. **Edge treatment:** All edges are lipped with matching or complementary 1mm durable ABS.
 - 2.5. **Reaction to fire (minimum classification, finished panel):** Manufacturer's standard
3. **Fasteners:** Manufacturer's standard
4. **Framing/ Support**
 - 4.1. **Duct panels:** Factory made coated steel frames with pre-hung panels, complete with panel alignment brackets.
5. **Flashgap panels:** Decorative high-pressure laminate (HPL).
6. **Skirting:** Coved vinyl - see section M50.

210 Samples

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

220 Control samples

1. **General:** Complete samples as part of finished work and obtain approval of appearance before proceeding.
2. **Types:** K32/112 & 150
 - 2.1. **Locations:** Obtain instructions

250 Installation

1. **Programming:** Do not install duct/ wall panels before wet trades have finished their work, wall and floor finishes are complete, and the building is well dried out.

2. **Accuracy:** Set out to ensure frames and/ or panels and doors are plumb, level and accurately aligned.
3. **Modifications:** Do not cut, plane or sand prefinished components except where shown on drawings.
4. **Fixing:** Secure components using methods and fasteners recommended by the cubicle/ panel manufacturer. Prevent pulling away, bowing or other distortions to frames, panels and doors.
5. **Moisture and thermal movement:** Make adequate allowance for future movement.

Ω End of Section

K40

Demountable suspended ceilings

Types of ceiling system

135 Board-suspended ceiling system

1. **Description:** TO 2nd & 3rd Floor Floor Studios, Meeting Rooms and Offices as indicated on the ceiling finishes drawing.
2. **Standard:** To BS EN 13964.
Fire Lining to meet B,s1,d0 standards
3. **Evidence of compliance:** All ceilings kits to be UKCA/ UKNI/ CE marked. Submit Declaration of Performance (DoP).
4. **Ceiling system manufacturer:** - Ceiling system manufacturer/supplier: Skanda Acoustics Ltd.
67, Clywedog Road North, Wrexham Industrial Estate, Wrexham LL13 9XN Tel: 01978 664255
Fax 01978 661427 Email: info@troldekt.co.uk
 - 4.1. **Product reference:** Troldekt Woodwool Baffles
 - Ceiling type: Fine fibre wood wool panels meeting EN 13168 and EN 13964 standards.
The panels must be available as be PEFC™ or FSC®-certified (FSC® C115450). Certified "Silver" Cradle to Cradle and the "Allergy Friendly Product Award" - "Allergy UK".
5. **Ceiling**
 - 5.1. **Boards:** - Panel size: 300X600mm, 300X1200mm,
 - Thickness: 20/20mm
 - Panel finish: dark Grey 208 - standard colour range TBC by Client
 - Structure: Fine 1.5mm
 - 5.2. **Soffit height above finished floor level:** TBA - above lighting level
 - Structural soffit: Concrete & Metal Deck
6. **Accessories:** - Support: Aluminium suspension rail
 - Manufacturer's Troldekt components to include suspension wire and bolt, fastening block.

General/ performance

210 Environment

1. **Environmental classification to BS EN 13964:** as manufacturers certification
2. **Release of Formaldehyde to BS EN 13964:** as manufacturers certification
3. **Susceptibility to growth of harmful micro-organisms to BS EN 13964:** as manufacturers certification

220 Structural performance

1. **Description:**
2. **Loads:** The ceiling system must safely support all anticipated loads, including services fittings to be confirmed by the structural engineer
 - 2.1. **Class:**
 - 2.2. **Additional loads/ pressures to be sustained by ceiling system:**
 - 2.2.1. Ceiling system subject to wind pressure:
3. **Deflection (maximum) between points of support**
 - 3.1. **Span under 1200 mm:** Span/400.
 - 3.2. **Span 1200-1800 mm:** Span/500.
 - 3.3. **Span over 1800 mm:** Span/600.
4. **Test standard:** To BS EN 13964.

225 Fire performance

1. **Description:** Fire Lining of acoustic boards to meet B,s1,d0 standards
2. **Test reports or assessments:** Include details of performance related to the particular elements of construction.

230 Acoustic performance

1. **Description:** Class B performance with data confirmed by acoustician

Components - Not Used

Execution

302 Control samples

1. **General:** Complete areas as part of the finished work in the following locations: A sample within structural grid to 3rd floor.
2. **Approval:** Obtain before completing areas of similar work.

305 Setting out

1. **General:** Completed ceiling should present, over the whole of its surface exposed to the room below, a continuous and even surface, jointed (where applicable) at regular intervals.
Refer to Architects drawings for setting out

320 Top fixing

1. **Building structure:** Verify suitability.
2. **Structural soffit:** Concrete & Metal Deck
 - 2.1. **Suitability to receive specified fixings:** Evaluate and confirm
3. **Fixing generally:** In accordance with BS EN 13964.
4. **Fixing to**
 - 4.1. **Concrete:** Drill and insert suitable expanding anchors to manufacturers recommendations
 - 4.2. **Metal roof decking:** Fix to u/s of liner tray corrugations to manufacturers recommendations.

375 Board ceiling systems

1. **Cut boards:** - Installation should be in accordance with manufacturer's instructions, see www.troldekt.co.uk for download.
 - Moisture content of boards at time of fixing: Appropriate to end use.
 - It is important that the Troldekt panels are allowed to acclimatise prior to installation. Acclimatisation means that the panels must adapt to the temperature and humidity in the room where they are to be installed.
 - Troldekt panels to wooden battens installed in broken bond
 - Cutting: Cut panels neatly and accurately in accordance with manufacturer's instructions.
 - Fixing: Slide the fastening blocks into the aluminium profile from both sides.
 - Secure the suspension wire to the fastening block in the aluminium profile min 80mm from the end, by screwing the thread at the end of the wire into the fastening block.
 - Once the fastening block and suspension wire are secured the baffle can be hung in position.

Completion

520 User instructions

1. **Contents:** Include the following:
 - 1.1. Correct methods for removing and replacing infill units and other components.
 - 1.2. Cleaning methods and materials.

- 1.3. Recommendations for redecoration.
- 1.4. Ceiling systems intended for fire protection: Limitations placed on subsequent alterations and maintenance procedures, to ensure that their fire performance is not impaired.
- 1.5. Maximum number, position and value of point loads that can be applied to ceiling system after installation.

530 Spares

1. General: At practical completion, supply the following: 1 Pack of Spare boards for both sizes including rails and fixings.

Ω End of Section

L10

Windows/ rooflights/ screens/ louvres

General

110 Evidence of performance

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

115 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.
 - 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:** Forest Stewardship Council (FSC), Grown in Britain (GiB) or Programme for the Endorsement of Forest Certification (PEFC)
 - 3.1. **Other evidence:** None

120 Pre-construction survey

1. **Procedure:** Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
2. **Designated items:** All windows requiring new secondary glazing.
3. **Primary support structure:** Carry out survey sufficient to verify that required accuracy and security of erection can be achieved.
4. **Timing:** Before fabrication.

140 Control samples

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

155 View out

1. **Windows/ opening sizes and position:** Design to meet BREEAM 'View out' criteria for relevant building type.
2. **Submit design plan and elevation drawings showing the following**
 - 2.1. All BREEAM defined 'relevant areas' dependent on building type and room depths.
 - 2.2. Actual or notional workstation/ desk layouts.

- 2.3. Window/ open areas.
3. Submit site plan showing: Building location and proximity to external obstructions.

160 Potential for natural ventilation

1. Submit design plan and elevation drawings, and calculations confirming the following: Ability to access all existing opening windows

Products

580 Secondary glazing system Type A

1. Manufacturer: [Selectaglaze Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Alban Park
Hatfield Road
St Albans
Hertfordshire
AL4 0JJ
 - 1.1.2. Telephone: [+44 \(0\)1727 837271](tel:+441727837271)
 - 1.1.3. Web: www.selectaglaze.co.uk
 - 1.1.4. Email: enquiries@selectaglaze.co.uk
 - 1.2. Product reference: [Series 10 Slimline Horizontal Sliding 3 Pane](#)
2. Third-party certification: Blast-tested to ISO 16933: EXV 45.
3. Dimensions and configurations: Site measure required. Ensure sliding panes align with existing openings to maintain access and use.
4. Product performance
 - 4.1. Safety
 - 4.1.1. Security level: EXV 45.
 - 4.2. Environmental
 - 4.2.1. Acoustic performance rating: 46 dB (Rw).
 - 4.3. Thermal
 - 4.3.1. Whole window U-value: 1.81 W/m²K.
5. Frame
 - 5.1. Profile: Low profile.
 - 5.2. Finish as delivered
 - 5.2.1. Coating: Polyester powder-coated.
 - 5.2.2. Colour: HIPCA 9910 semi-gloss white.
 - 5.3. Ventilator: Over the frame standard ventilator.
6. Glazing or infill
 - 6.1. Requirements: Toughened.
7. Hardware: H1- Integral finger pull. L13 - Sliding Latch.
8. Operation
 - 8.1. Type: Manual.
9. Fixing features: Reveal-fixed.
10. Style: Three pane horizontal slider. to suit exiting window style and location of opening windows.
11. Thickness: 6 mm.
12. Glazing gasket: Black.
13. Gloss level: Matt.

14. Acoustic reveal linings: Not required.

Execution

710 Protection of components

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

730 Priming/ sealing

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

782 Fixing of aluminium frames

1. **Standard:** As section Z20.
2. **Fasteners:** Stainless steel wood screws
 - 2.1. **Spacing:** When not pre-drilled or specified otherwise, position fasteners not more than 250 mm from ends of each jamb, adjacent to each hanging point of opening lights, and at maximum 600 mm centres.

810 Sealant joints

1. **Sealant**
 - 1.1. **Manufacturer:** A firm currently registered under a third-party quality assurance scheme
 - 1.1.1. **Product reference:** Contractor's choice
 - 1.2. **Colour:** White
 - 1.3. **Application:** As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile.

820 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.

Ω End of Section

L20 Doors

General

110 Evidence of performance

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

112 Timber procurement

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

115 Fire resisting and smoke control pedestrian doors/ door assemblies/ doorsets

1. **CE marked fire resisting and smoke control pedestrian doorsets:** To BS EN 16034 and in conjunction with BS EN 13241 and BS EN 14351-1 (and eventually prEN 14351-2).
2. **Door products:** As defined in BS EN 12519.
3. **Evidence of fire performance:** Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ door assembly/ doorset supplied will comply with the specified requirements for fire resisting and/ or smoke control if tested to BS 476-22, BS EN 1634-1, BS EN 1634-3 or is CE marked to BS EN 16034. Specified values should not be a combination of both standards. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
4. Components, assemblies or sets will be marked to the relevant CE marking European product standard (hEN), national product standard and/ or third party certification rating.

120 Non fire resisting pedestrian doors/ door assemblies/ doorsets

1. Provide certified evidence, in the form of a product conformity certificate or engineering assessment, that each pedestrian door/ doorset/ assembly supplied will comply with the specified requirements to BS EN 14351-1. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
2. Components and assemblies will be marked to the relevant CE marking European product standard (hEN), national product standard and/ or third party certification rating.

150 Site dimensions

1. **Procedure:** Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
2. **Designated items:** Note: This is an existing building, and as such all existing openings to receive new doors, frames, screens etc. must be site measured prior to any fabrication of such items.

170 Control samples

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

Products

410 Wood doorsets, fire or non-fire rated and with and without glazed screens and fanlights etc.

1. **Description:** Bespoke doorsets (to suit existing openings) either fire or non-fire rated with and without glazed side screens and fanlights etc.
Refer to internal door schedule for fire rating requirement and also frame style (side screen and fanlight) requirements.
2. **Manufacturer:** Lloyd Worrall Group or similar and approved.
 - 2.1. **Product reference:** Laminate faced Interspec Doorset
3. **Door leaf:**
4. **Core:** Solid core with timber subframe to accommodate ironmongery fixing, with chipboard subfacing.
5. **Thickness:** 44 mm
6. **Facings:** 0.9mm Formica Stock Laminate
Reference: Door Collection (Matte 58) F2253 Diamond Black - to match existing
7. **Lippings:** 9mm Oak Hardwood exposed on all four edges, factory polished.
8. **Finish as delivered:** Self finished laminate
9. **Frame and architraves**
 - 9.1. **Type:** Frame: 32mm thick solid frame with 14mm planted stop x partition thickness.
Architraves: 69 x 18mm Manufacturers standard.
10. **Wood species:** Softwood to Manufacturers standard
11. **Finish as delivered:** Prepared and primed, as section M60
12. **Preservative treatment:** Not required
13. **Glazing/ Infill details:** All glazing to doors to be clear, either non-fire rated, or fire rated to 30/30 where required. Refer to schedule for fire ratings.
All fire rated glazing must be installed in a suitable, approved, glazing bead system.
14. **Beading:** Doors to have oak beading to match the door edgings and existing MTC doorsets.
15. **Ironmongery:**
 - Ironmongery to be supplied to Manufacturer for factory fitting to the Interspec doorsets
 - Doorset manufacturer to be responsible for the compatibility and certification of the scheduled Ironmongery.
 - All non projecting ironmongery to be factory fitted: - Hinges, Locks, Lock keeps, Flush bolts.
 - All projecting ironmongery to be bagged and fitted on site.
16. **Intumescent strips / smoke seals:** Manufacturer to provide intumescent strips and smoke seals to fire rated doors.
17. **Other requirements:** Manufacturer must provide certified evidence of fire performance of the combined system i.e. door, frame, side screens etc. in accordance with Clause L20/115
18. **Fixing:** As recommended by the doorset Manufacturer.

Execution

710 Protection of components

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

730 Priming/ sealing

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

750 Fixing doorsets

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

790 Fixing of wood frames

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

800 Fixing of loose thresholds

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

809 Fire resisting and smoke control doors/ door assemblies and glazed side screens etc. – accredited installer

1. **Installation:** FIRAS certified. By a firm currently registered under a third party accredited fire door installer scheme in accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.

810 Fire resisting and smoke control doors/ door assemblies and glazed side screens – contractor installed

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

830 Fixing ironmongery generally

1. **Fasteners:** Supplied by ironmongery manufacturer.
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.

840 Fixing ironmongery to fire resisting door assemblies

1. **General:** All items fixed in accordance with door leaf manufacturer's recommendations ensuring that integrity of the assembly, as established by testing, is not compromised.
2. **Holes for through fixings and components:** Accurately cut.
 - 2.1. **Clearances:** Not more than 8 mm unless protected by intumescent paste or similar.
 - 2.2. **Lock/ Latch cases** for fire doors requiring

850 Location of hinges

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

860 Installation of emergency exit devices

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

Ω End of Section

M50

Vinyl flooring/ carpet tiling/ matting/ wall tiling

Types of covering

110 Resilient floor tiling Floor Finish Type F

1. Tiles
 - 1.1. Manufacturer: [Polyflor Ltd](#)
 - 1.1.1. Contact details
 - 1.1.1.1. Address: PO Box 3
Radcliffe New Road
Whitefield
Manchester
M45 7NR
 - 1.1.1.2. Telephone: [+44 \(0\)161 767 1122](#)
 - 1.1.1.3. Web: [www.polyflor.com](#)
 - 1.1.1.4. Email: [info@polyflor.com](#)
 - 1.1.2. Product reference: [Expona Commercial - Stone and Abstract PUR \(5067 Light Grey Concrete\)](#)
 - 1.2. Standard: To BS EN 649 and BS EN ISO 10582.
 - 1.3. Use class: To BS EN ISO 10874, class 23, 33 and 42.
 - 1.4. Slip potential
 - 1.4.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): R10.
 - 1.5. Recycled content: 40%.
 - 1.6. Size: 609.6 x 609.6 mm.
 - 1.7. Thickness: 2.5 mm.
 - 1.8. Colour and pattern: Light Grey Concrete

130 Carpet tiling Floor Finish Type B

1. Location: Refer to floor finishes drawings for location
2. Base: Varies -
Existing raised access floor at 2nd floor
Existing concrete at 3rd floor
Note: where existing concrete floors are uneven a 2/3mm latex self levelling screed should be used.
 - 2.1. Preparation: All to be in accordance with carpet tile Manufacturers specification and recommendations.
3. Carpet tiles
 - 3.1. Reaction to fire classification: Class Bfl S1
 - 3.2. Manufacturer: Interface
 - 3.2.1. Product reference: Composure
 - 3.3. Type: Textile floor coverings (EN 1307)
 - 3.4. BS EN 1307 classification
 - 3.4.1. Levels of use class: 33 (Heavy)
 - 3.4.2. Luxury rating class: LC1
 - 3.4.3. Additional performance properties to BS EN 1307: Castor chair rating 2.4 - Continuous use.

- 3.5. Recycled content: Manufacturers standard
- 3.6. Size: 500 x 500 mm
- 3.7. Colour/ pattern: Transcribe Ref:4169007
Laying pattern to be confirmed.
- 4. Method of laying: Fully adhere all tiles with release (takifier) adhesive recommended by tile manufacturer.
- 5. Accessories: Colour matched threshold and joint strips where required.

151 Vinyl Sheet Flooring - Non-Slip Floor Finish Type G

1. Description:

Polyvinyl chloride floor coverings with particle based enhanced slip resistance (EN 13845). All laid in accordance with Manufacturers specification and recommendations.

2. Location: Refer to floor finishes drawings

3. Base: Concrete.

Note: where existing floors are uneven a 2/3mm latex self levelling screed should be used.

3.1. Preparation: All to be in accordance with Manufacturers specification and recommendations.

4. Flooring roll

4.1. Manufacturer: [Polyflor Ltd](#)

4.1.1. Contact details

4.1.1.1. Address: PO Box 3
Radcliffe New Road
Whitefield
Manchester
M45 7NR

4.1.1.2. Telephone: [+44 \(0\)161 767 1122](tel:+44(0)1617671122)

4.1.1.3. Web: www.polyflor.com

4.1.1.4. Email: info@polyflor.com

4.1.2. Product reference: [Polysafe Standard PUR](#)

4.2. Standard: To BS EN 13845.

4.3. Use class: To BS EN ISO 10874, class 23, 34 and 43.

4.4. Slip potential

4.4.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): R10. 36
+ Pendulum Wet Test (4S Rubber/Slider 96).

4.4.2. Surface roughness (Rz) (minimum): $\geq 20 \mu\text{m}$.

4.5. Width: 2000 mm.

4.6. Thickness: 2 mm.

4.7. Colour and pattern: Ash Grey.

4.8. Acoustic underlay: Not required.

5. Adhesive (and primer if recommended by manufacturer): As clause 640

6. Seam welding: Use [UNICOLOURED LIGHT GREY 0455](#)

7. Accessories: Colour matched edging trim for thresholds etc.

8. Finishing: As per Manufacturers specification and recommendations

General requirements

210 Workmanship generally

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

220 Samples

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

230 Control samples

1. **General:** Complete areas of finished work in approved locations as follows, and obtain approval of appearance before proceeding: Each floor type of approx 2m square .

250 Layout – roll materials

1. **Setting out of seams:** Agree setting out for sheeting types M50/ 150 & 151 .

251 Layout – seams in roll materials

1. **Setting out:** Minimise occurrences of seams and cross seams.

252 Layout – patterns

1. **Setting out:** Agree setting out for covering types M50/ 130 .

270 Extra material

1. **Provision of extra material:** At completion, hand to Employer extra material of each type of covering to extent of 5 boxes of carpet tile and 1No. roll of each vinyl type..

330 Commencement

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

340 Conditioning

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

350 Environment

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

2. Ventilation: Before during and after laying, maintain adequate provision.

Preparing bases

410 New bases

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

420 Existing bases

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

430 New wet laid bases

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

465 Smoothing/ levelling underlayment compound for use where required to ensure floor is level and true prior to laying final floor covering

1. Manufacturer: [Ardex Ltd – Flooring, Tiling & Screeding products](#)
 - 1.1. Contact details
 - 1.1.1. Address: Homefield Road
Haverhill
Suffolk
CB9 8QP
 - 1.1.2. Telephone: [+44 \(0\)1440 714939](#)
 - 1.1.3. Web: [ardex.co.uk](#)
 - 1.1.4. Email: [info@ardex.co.uk](#)
 - 1.2. Product reference: [ARDEX K 11 Rapid Hardening Levelling and Smoothing Compound](#)
2. Primer: As recommended by Ardex Ltd for each different sub-base.

470 Bases from which existing floor coverings have been removed

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

480 Existing floor coverings to be overlaid

1. Substrate: Make good by local resticking and patching or filling with smoothing underlayment compound to give smooth, even surface.

510 Wood block flooring

1. Substrate: Clean and free from wax with all blocks sound and securely bonded. Fill hollows with smoothing underlayment compound to give smooth, even surface.
2. Missing and loose blocks: Replace and reset in adhesive to match existing. Sand or plane to make level.

Laying coverings

620 Colour consistency

1. **Finished work in any one area/ room:** Free from banding or patchiness.

640 Adhesive fixing generally

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

650 Seams

1. **Patterns:** Matched.
2. **Joints:** Tight without gaps.

680 Seam welding coverings

1. **Commencement:** At least 24 hours after laying, or after adhesive has set.
2. **Joints:** Neat, smooth, strongly bonded, flush with finished surface.

700 Loose laid carpet tiles

1. **Areas of adhered tiles:** Secure using tackifier adhesive as recommended by carpet tile Manufacturer
2. **Joints:** Butted.
 - 2.1. **Perimeter joints:** Accurately cut to match abutment and prevent movement.

720 Doorways

1. **Joint location:** On centre line of door leaf.

740 Edgings and cover strips

1. **Manufacturer:** Contractor's choice
 - 1.1. **Product reference:** Submit proposals
2. **Material/ finish:** Rubber, colour matched to flooring
3. **Fixing:** Secure with edge of covering gripped. Use matching fasteners where exposed to view

750 Stair nosings and trims

1. **Manufacturer:** Gradus
Tel: +44 (0)1625 428922
www.gradus.com
 - 1.1. **Product reference:** Gradus ELA51750 - Secret fix
(or similar approved)
2. **Material/ finish:** Aluminium with coloured inserts from the Gradus standard colour range
3. **Fixing:** Secure, level and with mitred joints. Adjusted to suit thickness of covering with continuous packing strips of hardboard or plywood. Nosings and packing strips bedded in gap-filling adhesive recommended by nosing manufacturer.

760 Stair coverings – separate risers and treads

1. **Fixing:** Accurately cut. Fit risers before treads.

770 Skirtings

1. **Types:**
2. **Manufacturer:**
 - 2.1. **Product reference:**
3. **Fixing:** Secure with top edge straight and parallel with floor.
 - 3.1. **Corners:** Mitre joints.

780 Trafficking after laying

1. **Covering types:**
2. **Traffic free period:**

Completion

820 Finishing

1. **Description:**
2. **Cleaning operations**
 - 2.1. Wash floor with water containing neutral (pH 6-9) detergent. If necessary, lightly scrub heavily soiled areas.
 - 2.2. Rinse with clean water, removing surplus to prevent damage to adhesive. Allow to dry.
3. **Emulsion polish:** Two coats of a type recommended by covering manufacturer.

825 Finishing non-textile antistatic flooring

1. **Cleaning operations**
 - 1.1. Wash floor with water containing neutral (pH 6-9) detergent. If necessary, lightly scrub heavily soiled areas.
 - 1.2. Rinse with clean water, removing surplus to prevent damage to adhesive. Allow to dry for not less than 24 hours before testing.

830 Finishing rubber flooring

1. **Cleaning operations**
 - 1.1. Wash floor with a cleaner recommended by covering manufacturer.
 - 1.2. Wet vacuum or mop up residue.
 - 1.3. Rinse with clean water. Wet vacuum or mop up and allow to dry.
2. **Final treatment:** Follow recommendations of covering manufacture and spray buff with wetting agent or dry burnish.

840 Finishing rubber flooring – polish finish

1. **Cleaning operations**
 - 1.1. Wash floor with a cleaner recommended by covering manufacturer.
 - 1.2. Wet vacuum or mop up residue.
 - 1.3. Rinse with clean water. Wet vacuum or mop up and allow to dry.
2. **Polishing:** Apply two coats of buffable or semibuffable polish of a type recommended by covering manufacturer.

850 Finishing cork tile flooring – polish finish

1. **Preparation:** Lightly sand joints to remove any lipping. Match original finish.
2. **Cleaning operations**
 - 2.1. Remove dust and wash, using water containing a neutral detergent. Allow to dry.
3. **Sealing:** Apply a water based seal of a type and number of coats recommended by cork manufacturer. Allow each coat to dry. Dry burnish.
4. **Emulsion polish:** Two coats of a type recommended by cork manufacturer. Dry burnish each coat.

851 Finishing cork tile flooring – polyurethane finish

1. **Preparation:** Lightly sand joints to remove any lipping. Match original finish.
2. **Cleaning operations**
 - 2.1. Remove dust and wash with water containing a neutral detergent. Allow to dry.
3. **Polyurethane varnish:** Apply a type and number of coats recommended by cork manufacturer. Allow each coat to dry.

860 Testing antistatic flooring

1. Floor covering to be tested: M50/
2. **Test methods:**
3. **Required electrical resistance values**
 - 3.1. **Upper limit**
 - 3.1.1. Average value not more than
 - 3.1.2. No individual reading more than
 - 3.2. **Lower limit**
 - 3.2.1. Average value not less than
 - 3.2.2. No individual reading less than
4. **Electrical resistivity:** Submit and agree date and time of test. Record and submit results.
5. **Floor covering details sign:** Before fixing, agree location and submit details of a brass plate, size 50 x 75 mm, engraved with the following details:
 6. The words 'ANTISTATIC FLOOR'.
 7. Manufacturer and reference of flooring.
 8. Name of flooring contractor.
 9. Date when laid.

861 Slip resistance testing

1. **Testing authority:**
2. **Floor covering(s) to be tested:**
3. **Test:** To BS 7976-1, -2 and -3.
 - 3.1. **Floor covering condition:**
 - 3.2. **Witnessing/ Certification:** Arrange for tests to be witnessed/ certified by:
4. **Report:** Submit.

880 Waste

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

Ω End of Section

M52

Decorative papers/ fabrics

Types of covering

110 Covering for

1. **Description:** Internal feature walls to 2nd & 3rd Floor as noted on Architects wall finishes drawing.
2. **Substrate:** Existing emulsion painted plaster
 - 2.1. **Preparation:** Remove peelable vinyl surface
 - 2.2. **Treatment:** as recommended by vinyl manufacturer
3. **Adhesive:** As covering manufacturer's recommendations for substrate
4. **Covering:** Vinyl decal / graphic to end user designs. Sizing to suit wall width as noted on finishes drawing and a height of 2000mm allowed
 - 4.1. **Manufacturer:** Contractor's choice
 - 4.1.1. **Product reference:** Submit proposals
 - 4.2. **Colour/ pattern:** To end user designs

Generally

220 Samples

1. **General:** Submit designs to end user for approval prior to order.

Preparation

310 Preparation generally

1. **Preparation materials:** Types recommended by their manufacturers and covering manufacturer for situation and substrate being prepared.
2. **Substrates:** Sufficiently dry in depth to suit covering to be hung.
3. **Dirt, grease and oil:** Remove. Give notice if contamination of substrates has occurred.
4. **Substrate irregularities:** Fill cracks, joints, holes and other depressions with stoppers/ fillers. Work well in and finish off flush with surface. Abrade to a smooth finish.
5. **Dust, particles and residues from abrasion:** Remove.

360 Vinyl covered substrates

1. **Existing covering:** Existing vinyl applied to glazed partitions. Remove peelable vinyl surface. Remove old adhesive by washing

Hanging

450 Setting out

1. **Approval of setting out:** Obtain before commencement of hanging coverings, for the following:
New Vinyl coverings.

Ω End of Section

M60

Painting/clear finishing

Coating systems

110 Emulsion paint

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: Refer to wall finishes plans
5. System code: D261W - Painted (water based) wall and ceiling surfaces. D281 - New plaster/ cement/ calcium silicate boards, etc. (uncoated).
6. Form: Liquid.
7. Capacity: 10 L.

130 Satin paint

1. Description: TO INTERNAL EXPOSED SOFTWOOD
2. Manufacturer: Dulux Trade
 - 2.1. Product reference: Contractor's choice
3. Surfaces: Preprimed and sealed
 - 3.1. Preparation: Ensure surfaces are clean and dry Degrease and provide key
4. Initial coats: As recommended by manufacturer
 - 4.1. Number of coats: 1
5. Undercoats: As recommended by manufacturer
 - 5.1. Number of coats: 1
6. Finishing coats: Satin Paint
 - 6.1. Number of coats: 2

150 Eggshell/ satin paint

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 Eggshell](#).
2. Composition: Acrylic copolymer.
 3. Sheen: Eggshell.
 4. Colour: Refer to wall finishes plans
 5. System code: D96 - Painted wall and ceiling surfaces. D599 - New plaster/ cement/ calcium silicate boards etc.
 6. Capacity: 2.5 L.
 7. Form: Liquid.

Generally

210 Coating materials

1. Manufacturers: Obtain materials from any of the following:
Dulux Trade
2. Selected manufacturers: Submit names before commencement of coating work.

215 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.

220 Compatibility

1. Coating materials selected by contractor
 - 1.1. Recommended by their manufacturers for the particular surface and conditions of exposure.
 - 1.2. Compatible with each other.
 - 1.3. Compatible with and not inhibiting performance of preservative/fire-retardant pretreatments.

240 Surfaces not to be coated

1. Areas of acoustic ceiling tiles.

280 Protection

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

300 Control samples

1. Sample areas of finished work: Carry out, including preparation, as follows:
2. Types of coating Location
3. M60/ 110, 130 & 150. Colour samples required.
4. Approval of appearance: Obtain before commencement of general coating work.

320 Inspection by coating manufacturers

1. General: Permit manufacturers to inspect work in progress and take samples of their materials from site if requested.

321 Inspection of work stages

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

Preparation

400 Preparation generally

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

420 Fixtures and fittings

1. Removal: Before commencing work remove: Coverplates, grilles, wall clocks, and other surface mounted fixtures.
2. Replacement: Refurbish as necessary, refit when coating is dry.

440 Previously coated surfaces generally

1. Preparation: In accordance with BS 6150, clause 11.5.
2. Contaminated or hazardous surfaces: Give notice of:
 - 2.1. Coatings suspected of containing lead.
 - 2.2. Substrates suspected of containing asbestos or other hazardous materials.
 - 2.3. Significant rot, corrosion or other degradation of substrates.
3. Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
4. Removing coatings: Do not damage substrate and adjacent surfaces or adversely affect subsequent coatings.

5. Loose, flaking or otherwise defective areas: Carefully remove to a firm edge.
6. Alkali affected coatings: Completely remove.
7. Retained coatings
 - 7.1. Thoroughly clean to remove dirt, grease and contaminants.
 - 7.2. Gloss-coated surfaces: Provide key.
8. Partly removed coatings
 - 8.1. Additional preparatory coats: Apply to restore original coating thicknesses.
 - 8.2. Junctions: Provide flush surface.
9. Completely stripped surfaces: Prepare as for uncoated surfaces.

461 Previously coated wood

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

471 Preprimed wood

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

481 Uncoated wood

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

560 Uncoated concrete

1. Release agents: Remove.

580 Uncoated plaster

1. Nibs, trowel marks and plaster splashes: Scrape off.
2. Overtrowelled 'polished' areas: Key lightly.

590 Uncoated plasterboard

1. Depressions around fixings: Fill with stoppers/ fillers

611 Wall coverings

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

622 Organic growths

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

645 Sealing of internal movement joints

1. General: To junctions of walls and ceilings with architraves, skirtings and other trims.
2. Sealant: Waterborne acrylic.
 - 2.1. Manufacturer: Contractor's choice

- 2.1.1. Product reference: Submit proposals
- 2.2. Preparation and application: As section Z22.

Application

711 Coating generally

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

720 Priming joinery

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

730 Workshop coating of concealed joinery surfaces

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

Ω End of Section

N13 Sanitary appliances and fittings

Products

311 Unisex accessible WC equipment packages (Document M) Type A

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](#)
 - 1.1.3. Web: www.twyfordbathrooms.com
 - 1.1.4. Email: enquiries@geberit.co.uk
 - 1.2. Product reference: [Doc.M Rimless Back-to-Wall Pack \(PK8357BE\)](#)
 - 1.3. Comprising components:
 - Avalon 700mm projection BTW Rimfree pan
 - Concealed cistern, single flush lever, 4 litre flush
 - Avalon 50mm extension for WC
 - Avalon seat ring, stainless steel bar hinge, top fix and stability buffers
 - Doc.M back support with cushion
 - Sola square handrinse basin 400, no overflow 1 tap
 - Sola thermostatic basin mixer with fixed spout and copper tails (SF1140CP),
 - Grid waste,
 - Wall bolts (pair),
 - 4 x 600mm grab rails concealed fixings,
 - 1 x 450mm grab rail concealed fixings,
 - 1x Hinged support rail and toilet roll holder concealed fixings
2. Standards: In accordance with Approved Document M.
3. Type approval certificate: WRAS Approved, TMV3 Approved.
4. Form: Complete accessible WC Doc M package and fittings.
5. Arrangement: Back to wall pack.
6. Transfer handing: Left hand.
7. Material and colour
 - 7.1. WC pans: Avalon 700 mm projection BTW Rimfree pan, 50 mm extension, vitreous china, white.
 - 7.2. WC cisterns: Concealed cistern, single flush lever, 6 L flush.
 - 7.3. WC seats: Avalon seat ring, stainless steel bar hinge, top fix and stability buffers, grey (RAL 7005).
 - 7.4. Wash basins
 - 7.4.1. Material: Sola square handrinse basin 400, no overflow, one tap hole, vitreous china, white.
 - 7.5. Handrails: Four 600 mm grab rails with concealed fixings, one 450 mm grab rail with concealed fixings, one hinged support rail and toilet roll holder with concealed fixings, grey powder-coated aluminium (RAL 7005).
8. Water supply fittings: Sola thermostatic basin mixer with fixed spout and copper tails (SF1140CP).

438 Mirrors

1. **Description:** To WC areas. Refer to drawings for locations and sizes
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Submit proposals
 - 2.2. **Fixing::** Mirror adhesive or chrome domed screws

442 Soap dispenser - 1No. per wash hand basin & 1No. per Cleaners Store

1. **Manufacturer:** Arrow
 - 1.1. **Product reference:** Ref: **15-062**
Soap dispenser (contact MMU FM dept.)
System 300 Foam (white) soap Dispenser
250mm (h) x 115mm (w) x 115mm (d)

449 Adjustable shelves where shown on drawings

1. **Description:** Spur adjustable shelving system with timber shelves.
2. **Manufacturer:** Spur Shelving Ltd.
EFF Manufacturing Ltd,
21 Corngreaves Trading Est,
Charlton Drive,
Cradely Heath,
West Mids,
B64 7BJ
 - 2.1. **Product reference:** Support System.
 - Ref: **SLU122W** Spur ® Steel-Lok Heavy Duty Shelving Support Uprights 1220mm long fixed to wall at max 750mm centres.
 - Ref: **SLBH27W** Spur ® Bracket Steel-lok Wall Shelf brackets 270mm Heavy Duty Shelves
 - 18mm white melamine shelves. 330mm x Length as shown on drawings. Each shelf to be screw fixed to each bracket from the underside.

472 Hand dryers to WC areas

1. **Description:** Wall mounted electric hand dryer
2. **Standard:** To BS EN 60335-2-23.
3. **Type:** High-velocity air
4. **Manufacturer:** Mitsubishi
 - 4.1. **Product reference:** **Jet towel slim**
Warm air hand drier
Jet towel slim (Silver/Black)
5. **Operation:** Automatic
6. **Fixing arrangement:** Surface
7. **Electrical supply:** Refer to M+E Consultants details.

580 Sealant for pointing to washbasins, WCs etc.

1. **Type:** High modulus one part silicone sealant
2. **Manufacturer:** Adshead Ratcliffe
 - 2.1. **Product reference:** Arbosil 1081 (or similar approved)
3. **Colour:** White

Execution

610 Installation generally

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

613 Compatibility of components

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

620 Noggings and bearers

1. **Noggings, bearers, etc. to support sanitary appliances and fittings:** Position accurately. Fix securely.
Note: The Contractor is responsible for providing and fixing any additional concealed bearers (grounds) for the fixing of sanitaryware and associated fittings.

630 Tiled backgrounds other than splashbacks

1. **Timing:** Complete before fixing appliances.
2. **Fixing appliances:** Do not overstress tiles.

650 Installing WC pans

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

670 Installing cisterns

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

710 Installing taps

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

720 Installing wastes and overflows

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

725 Installing hand dryers

1. Fused connection units
 - 1.1. Type: Refer to M+E Consultants details
 - 1.2. Engraving: With 'HAND DRYER'.
 - 1.3. Location: Refer to M+E Consultants details
2. Final connection: Concealed.
 - 2.1. Containment: Refer to M+E Consultants details

Ω End of Section

N15

Internal fire and safety signage systems

General

110 Fire and safety signage systems

1. **Description:** General fire signage where required.
Note: this is in addition to the signs requiring services input and an electrical supply which are specified by the M+E Consultant i.e. self contained emergency lighting and signage systems with central battery emergency and signage systems).
2. **System manufacturer:** Contractor's choice
 - 2.1. **System reference:** Submit proposals
3. **Locations and layout:** Refer to Fire Strategy drawing and Hoare Lea Fire Strategy Report
 - 3.1. **Language:** English.
4. **Material:** Adhesive vinyl
 - 4.1. **Other properties:** Photoluminescent

System performance

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:** Fire Strategy Report

220 Sign design and format

1. **Description:** For escape routes
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 ISO 20712-1.

270 Fire reaction

1. **Description:** All fire signs
2. **Non flammable surface**
 - 2.1. **Standard:** To Building Regulations Approved Document B

280 Design life

1. **Description:** Of fire escape and safety signage system.
2. **Duration:** 15 years
 - 2.1. **Subject to reasonable wear and tear.**
3. **Condition of use:** Subject to regular maintenance.

Products

310 Adhesive vinyl

1. Description: For escape route and warning signage
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Submit proposals
3. Component thickness: 2 mm
4. Finish: Matt

Execution

610 Fixing signs generally

1. Installation: Secure, plumb and level.
2. Strength of fasteners: Sufficient to support live and dead loads.
3. 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

P12

Fire-stopping systems

General

130 Fire-stopping system to individual services penetrations

1. **Description:** Through any fire resisting compartment, or fire enclosure, wall.
Refer to Fire Strategy drawings and Hoare Lea Fire Strategy Report for locations of all fire resisting walls etc.
2. **Fire resistance:** As Fire Strategy report and drawings.
3. **Penetration seal:** Pipe collar Pipe collar - concealed intumescent, as clause 370, or,
Pipe collar - surface-mounted intumescent, as clause 371
 - 3.1. **Size:** To suit existing wall thickness and the service penetration
4. **Capping sealant:** Fire-resisting silicone, as clause 338
 - 4.1. **Colour:** White

140 Fire-stopping system to multiple services penetrations

1. **Description:** Through any fire resisting compartment, or fire enclosure, wall.
Refer to Fire Strategy drawings and Hoare Lea Fire Strategy Report for locations of all fire resisting walls etc.
2. **Fire resistance:** As Fire Strategy report and drawings.
3. **Board barrier**
 - 3.1. **Material:** Ablative coated batt, as clause 360
In tray fire stop, as clause 375
 - 3.1.1. **Number of layers:** One
 - 3.2. **Framing:** Provide if required by board Manufacturer
 - 3.3. **Finish:** Not applicable
4. **Capping sealant:** Fire-resisting silicone, as clause 338
 - 4.1. **Colour:** White

150 Loose fire-stopping

1. **Description:** To any areas of the existing structure located on fire compartment, or fire enclosure lines, found to have gaps.
Refer to Fire Strategy drawings and Hoare Lea Fire Strategy Report for locations of all fire resisting walls etc.
2. **Fire resistance:** As Fire Strategy report and drawing
3. **Penetration seal:** Intumescent pillows, as clause 345, or
Mineral wool rigid batts - unfaced, as clause 360
 - 3.1. **Size:** To suit existing gap(s)

160 Linear gap sealing

1. **Description:** To tops of walls, if found to have gaps, to any areas of the existing structure located on fire compartment, or fire enclosure lines, found to have gaps.
Refer to Fire Strategy drawings and Hoare Lea Fire Strategy Report for locations of all fire resisting walls etc.
2. **Fire resistance:** As Fire Strategy report and drawing
3. **Gap width or height (nominal):** Existing as found
4. **Gap filler:** Linear gap filler as clause 365

5. Capping sealant: Fire-resisting silicone, as clause 338
 - 5.1. Colour: White

System performance

210 Design

1. **Design:** Complete the design of the fire-stopping system if alternative products are being proposed.
2. **Proposals:** Submit drawings, technical information, calculations and manufacturers' literature.

240 Fire performance

1. **Description:** Generally refer to the Fire Strategy drawings and Hoare Lea's Fire Strategy Report for the fire performance requirements.

260 Design life

1. Effective design life: 40 years

Products

305 Product certification

1. **Certification:** For products specified generically, submit evidence of compliance with the specification.
2. **Acceptable evidence:** One of the following:
 - Agrément certificate
 - Listing in CERTIFIRE Register
 - Listing in LPCB Register
 - Third-party certification

335 Intumescent expanding foam to seal gaps behind the frames of fire doors prior to fixing architraves.

1. **Manufacturer:** Pyroplex Ltd
The Furlong
Droitwich,
Worcestershire
WR9 9BG
United Kingdom
[t] +44 (0) 1905 795 432
[f] +44 (0) 1905 796 662
[e] info@pyroplex.com
 - 1.1. **Product reference:** Pyroplex® Fire Rated Expanding Foam
Cavity gap sealing - **Maximum gap = 32mm**
Fire Resistance Period: 120 minutes
Insulation/integrity: Insulation and integrity
Test Standard: EN 1366-4 and BS 476: Part 20:22
Approval Type: Certifire TS40, Certifire CF828, or similar approved.

338 Intumescent mastic

1. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.
 - 1.1. **Product reference:** Acoustic Intumescent Sealant or similar approved.

345 Intumescent pillows

1. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.
 - 1.1. **Product reference:** FIREPRO® Intumescent Pillows CE or similar approved
2. **Composition:** Sealed polyethylene bags containing graphite and vermiculite granules treated with fire activated chemicals.
3. **Integral reinforced eyelets:** Required.
4. **Linking cable:** Non-corrosive cotton-coated wire.

360 Mineral wool rigid batts

1. **Standard:** To BS EN 13162.
2. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.
 - 2.1. **Product reference:** FIREPRO® Ablative Coated Batt or similar approved

365 Linear gap sealer

1. **Standard:** To BS EN 13162.
2. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.
 - 2.1. **Product reference:** FIREPRO® Linear gap sealer
Firestop 2A and 2B or similar approved

370 Pipe collar - Insulated wrap

1. **Type:** Insulated wrap
2. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.
 - 2.1. **Product reference:** FirePro Fire Tube or similar approved.

371 Pipe collar - Insulated wrap - Surface mounted intumescent

1. **Type:** Surface mounted
2. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.
 - 2.1. **Product reference:** Firestop Pipe Collars or similar approved.

375 Service tray firestopping

1. **Type:** Surface mounted
2. **Manufacturer:** Rockwool Ltd
Pencoed
Bridgend
CF35 6NY.

2.1. Product reference: FIREPRO® Multi-Cable Firestop

385 Sealant backing material

1. **Manufacturer:** Everbuild Building Products Ltd
Sika Company,
Site 41,
Knowsthorpe Way,
Cross Green Industrial Estate,
Leeds,
LS9 0SW
United Kingdom
0113 200 9456.

1.1. Product reference: Product reference: Joint Backer Rod or similar approved.

Execution

610 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:** FIRAS Installer Certification

620 Workmanship generally

1. **Gaps:** Seal between building elements and services, to provide effective resistance to fire and the passage of smoke. Allow for capping sealants where required. Finish flush with surrounds.
2. **Adjacent surfaces:** Prevent overrun of filler, sealant or mortar on to finished surfaces.

640 Installing boarding

1. **Position of boarding:** Fit tight into void between the penetrating services and the surrounding construction to form a solid barrier.
Face of batts: Flush with the surface of wall, floor or soffit.
 - Joints between batts: Close butt joints, seal with acoustic intumescent sealant.
 - Gaps between services and barrier: Seal with fire resisting sealant.
2. **Framing:**
 - Brackets: Impale batts on proprietary pressed steel brackets at 500 mm maximum centres and not greater than 250 mm from ends of batts.
 - Bracket fixing: mechanically fixed to inner leaf. or penetration framing.
3. **Bedding:** Seal with acoustic intumescent sealant.
4. **Multiple board layers:** Stagger joints between layers.
 - 4.1. **Joints:** Joints between batts: Close butt joints, seal with acoustic intumescent sealant.

650 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. **Joints**
 - 2.1. **Ends of strips:** To Manufacturers specification and recommendations
 - 2.2. **Joints between strips:** To Manufacturers specification and recommendations

660 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

680 Installing intumescent pillows

1. Number of pillows (per m² of opening): Number necessary to achieve fire resistance
2. Orientation of bags: Perpendicular to plane of construction element containing opening

710 Installing mineral wool batts

1. Installing batts: Fit tight into void between the penetrating services and the surrounding construction to form a solid barrier.
 - 1.1. Brackets: Impale batts on proprietary pressed steel brackets at 500 mm maximum centres and not greater than 250 mm from ends of batts.
2. Face of batts: Flush with the surface of wall, floor or soffit.
3. Joints between batts: Butt joints, seal with acoustic intumescent sealant
4. Gaps between services and barrier: Seal with fire-resisting sealant.

730 Fixing pipe collars

1. Collar fixing: Plugged and screwed
2. Gap around collar: Seal with gap filler and sealant
3. Length of wraps: Project 50 mm from each side of the element

740 Inserting sealant backing material

1. Preparation: Removed debris from service penetration.
2. Installation: Insert joint filler to full depth of joint leaving sufficient depth to apply sealant

745 Applying sealants generally

1. Application: As section Z22.

Completion

910 Cleaning

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

920 Inspection

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

Ω End of Section

P20

Unframed isolated trims/ skirtings/ sundry items

To be read with preliminaries/ general conditions

200 Medium-density fibreboard

1. Description: For wall lining
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Submit proposals
3. Standard: To BS EN 622-5.
 - 3.1. Type: MDF
 - 3.2. Formaldehyde class: To BS EN 622-1, class E1.
4. Thickness: 15 mm
5. Edges: Chamfered
6. Finish: Prepared and primed, as section M60
7. Support/ Fixing: Fix to softwood grounds with lost head nails at 600 mm centres.

200 Medium-density fibreboard Skirtings

1. Description: For Skirtings
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Submit proposals
3. Standard: To BS EN 622-5.
 - 3.1. Type: MDF
 - 3.2. Formaldehyde class: To BS EN 622-1, class E1.
4. Profile:
 1. The majority of existing timber trims for skirtings, architraves etc. are to remain. New will only be required for splicing in or repairing the existing. The Contractor is responsible for taking dimensions and making profiles to match the existing for repair and splicing in new where required.
 2. Where an individual room is noted to have new skirtings (mainly the Basement) to all walls then the profile is to be 100 x 19mm with a square top edge.
5. Finish: Prepared and primed, as section M60
6. Support/ Fixing: Fix to softwood grounds with lost head nails at 600 mm centres.

240 Plywood

1. Description: For general partition lining
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Submit proposals
3. Face ply species: Contractor's choice, but must be smooth to take a paint finish
4. Appearance class to BS EN 635: Class I/II
5. Bond quality to BS EN 314-2: Class 1
6. Thickness: 12mm
7. Edges: Hardwood lipping to match facing
8. Finish: Prepared and primed, as section M60

9. **Support/ Fixing:** Pinned and glued to softwood grounds for permanently fixed areas.
cups and screws for areas which will require future removal for maintenance purposes.

Execution

510 Installation generally

1. **Joinery workmanship:** As section Z10.
2. **Metal workmanship:** As section Z11.
3. **Methods of fixing and fasteners:** As section Z20 where not specified.
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.

Ω End of Section

P21

Door/ window ironmongery

Pre-tender

10 Quantities and locations

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

General

121 Ironmongery from single proprietary range

1. Manufacturer: Glutz
 - 1.1. Product reference: 5088 Zurich
2. Principal material/ finish: Satin stainless steel, grade 1.4301 (304)
3. Items unavailable within selected range: Submit proposals.

141 Sample boards

1. General: Before placing orders with suppliers submit a sample board, containing labelled samples of ironmongery and showing methods of fixing.
2. Range: Include Zurich .
 - 2.1. Conformity: Retain board on site in an approved location for the duration of the Contract. Ensure conformity of ironmongery as delivered with labelled samples.

170 Ironmongery for fire doors

1. Relevant products: Ironmongery fixed to, or morticed into, the component parts of a fire resisting door assembly.
2. Compliance: Ironmongery included in successful tests to BS 476-22 or BS EN 1634-1 on door assemblies similar to those proposed.
 - 2.1. Certification: Submit CERTIFIRE certificates
3. Melting point of components (except decorative non-functional parts): 800°C minimum.

180 Strength class or category of duty for door ironmongery

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

Door hanging devices

320 Door hinges

1. Description: As Ironmongery Schedule
2. Manufacturer: Glutz
 - 2.1. Product reference: As ironmongery schedule
3. Type: As schedule
4. Size: As schedule

5. Material/ finish: Satin stainless steel, grade 1.4301 (304)

Window hanging devices - Not Used

Door operating devices

410 Overhead door closers

1. Description: As Ironmongery Schedule
2. Standard: To BS EN 1154.
3. Manufacturer: Glutz
 - 3.1. Product reference: As Ironmongery Schedule
4. Type: Concealed except on fire doors
5. Other functions: As schedule
6. Casing finish: As schedule
7. Operational adjustment
 - 7.1. Variable power: Matched to size, weight and location of doors.
 - 7.2. Latched doors: Override latches and/ or door seals when fitted.
 - 7.3. Unlatched doors: Hold shut under normal working conditions.
 - 7.4. Closing against smoke seals of fire doors: Positive. No gaps.

Door securing devices

515 Door locks

1. Description: As Ironmongery Schedule
2. Standard: To BS EN 12209.
3. Manufacturer: Glutz
 - 3.1. Product reference: As Ironmongery Schedule
4. Type: As schedule
5. Backset: As schedule
6. Material/ finish: As schedule
7. Keying: As schedule

540 Door latches

1. Description: As Ironmongery Schedule
2. Standard: To BS EN 12209.
3. Manufacturer: Glutz
 - 3.1. Product reference: As Ironmongery Schedule
4. Type: As schedule
5. Backset: As schedule
6. Material/ finish: As schedule
7. Latch spring strength: Select to prevent unsprung lever handles drooping.

571 Emergency exit devices

1. Description: As Ironmongery Schedule
2. Standard: To BS EN 179.
3. Manufacturer: Glutz
 - 3.1. Product reference: As Ironmongery Schedule

4. Type: As schedule
5. Material/ finish: As schedule

582 Door bolts

1. Description: As Ironmongery Schedule
2. Standard: To BS EN 12051.
3. Manufacturer: Glutz
 - 3.1. Product reference: As Ironmongery Schedule
4. Type: As schedule
5. Size: As schedule
6. Material/ finish: As schedule

586 Privacy indicator bolts

1. Description: As Ironmongery Schedule
2. Manufacturer: Glutz
 - 2.1. Product reference: As Ironmongery Schedule
3. Type: As schedule
4. Material/ finish: As schedule
5. Emergency release facility: Required.

Window securing devices - Not Used

Door furniture

610 Lever handles

1. Description: As Ironmongery Schedule
2. Standard: To BS EN 1906.
3. Manufacturer: Glutz
 - 3.1. Product reference: Zurich - As Ironmongery Schedule
4. Style: As schedule
5. Size: As schedule
6. Material/ finish: Satin stainless steel, grade 1.4301 (304)
7. Mounting: As schedule

641 Pull handles

1. Description: As Ironmongery Schedule
2. Standard: To BS 8424.
3. Manufacturer: Glutz
 - 3.1. Product reference: As Ironmongery Schedule
4. Shape: As schedule D handle
5. Diameter: As schedule
6. Distance between centres: As drawings
7. Material/ finish: As schedule
8. Mounting: As schedule

670 Push plates

1. Description: As Ironmongery Schedule
2. Manufacturer: Glutz
 - 2.1. Product reference: As Ironmongery Schedule
3. Size: As schedule
4. Material/ finish: As schedule
5. Mounting: As schedule
6. Additional requirements: Rounded edges and radiused corners

690 Kick plates

1. Description: As Ironmongery Schedule
2. Manufacturer: Glutz
 - 2.1. Product reference: As Ironmongery Schedule
3. Size: As schedule & Drawings
4. Material/ finish: As schedule
5. Mounting: As schedule Face fix
6. Additional requirements: Rounded edges and radiused corners

710 Escutcheons

1. Description: As Ironmongery Schedule
2. Manufacturer: Glutz
 - 2.1. Product reference: As Ironmongery Schedule
3. Material/ finish: As schedule
4. Keyhole type: As schedule
5. Usage: As schedule

720 Door stops

1. Manufacturer: Glutz
 - 1.1. Product reference: As Ironmongery Schedule
2. Type: As schedule Floor mounted black rubber centre fixing
3. Usage: As schedule

895 Door mounted air transfer grilles

1. Description: Where required by MEP Designer
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Type: Through door composite fitting
4. Size: as required - TBC
5. Material/ finish: Satin stainless steel, grade 1.4301 (304)

Window furniture - Not Used

Ω End of Section

Z20

Fixings and adhesives

Products

310 Fasteners generally

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.

320 Packings

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

330 Nailed timber fasteners

1. **Nails**
 - 1.1. **Steel:** To BS 1202-1 or BS EN 10230-1.
 - 1.2. **Copper:** To BS EN 1202-2.
 - 1.3. **Aluminium:** To BS 1202-3.

340 Masonry fixings

1. **Light duty:** Plugs and screws.
2. **Heavy duty:** Expansion anchors or chemical anchors.

350 Plugs

1. **Type:** Proprietary types to suit substrate, loads to be supported and conditions expected in use.

360 Anchors

1. **Types**
 - 1.1. **Expansion:** For use in substrate strong enough to resist forces generated by expansion of anchor.
 - 1.2. **Adhesive or chemical**
 - 1.2.1. For use in substrate where expansion of anchor would fracture substrate.
 - 1.2.2. For use in irregular substrate where expansion anchors cannot transfer load on anchor.
 - 1.3. **Cavity:** For use where the anchor is retained by toggles of the plug locking onto the inside face of the cavity.

370 Wood screws

1. **Type**
 - 1.1. Wood screws (traditional pattern).
 - 1.1.1. **Standard:** To BS 1210.
 - 1.2. Wood screws.
 - 1.2.1. **Pattern:** Parallel, fully threaded shank or twin thread types.
2. **Washers and screw cups:** Where required are to be of same material as screw.

380 Miscellaneous screws

1. **Type:** To suit the fixing requirement of the components and substrate.
 - 1.1. **Pattern:** Self-tapping, metallic drive screws, or power driven screws.
2. **Washers and screw cups:** Where required to be of same material as screw.

390 Adhesives

1. **Standards**
 - 1.1. **Hot-setting phenolic and aminoplastic:** To BS 1203.
 - 1.2. **Thermosetting wood adhesives:** To BS EN 12765.
 - 1.3. **Thermoplastic adhesives:** To BS EN 204.

410 Powder actuated fixing systems

1. **Types of fastener, accessories and consumables:** As recommended by tool manufacturer.

Execution

610 Fixing 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/ sleeves to avoid bimetallic corrosion.
3. **Appearance:** Fixings to be in straight lines at regular centres.

620 Fixing through finishes

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

630 Fixing packings

1. **Function:** To take up tolerances and prevent distortion of materials and components.
2. **Limits:** Do not use packings beyond thicknesses recommended by fixings and fasteners manufacturer.
3. **Locations:** Not within zones to be filled with sealant.

640 Fixing cramps

1. **Cramp positions:** Maximum 150 mm from each end of frame sections and at 600 mm maximum centres.
2. **Fasteners:** Fix cramps to frames with screws of same material as cramps.
3. **Fixings in masonry work:** Fully bed in mortar.

650 Nailed timber fixing

1. **Penetration:** Drive fully in without splitting or crushing timber.
2. **Surfaces visible in completed work:** Punch nail heads below wrot surfaces.
3. **Nailed timber joints:** Two nails per joint (minimum), opposed skew driven.

660 Screw fixing

1. **Finished level of countersunk screw heads**
 - 1.1. **Exposed:** Flush with timber surface.
 - 1.2. **Concealed (holes filled or stopped):** Sink minimum 2 mm below surface.

670 Pelleted countersunk screw fixing

1. Finished level of countersunk screw heads: Minimum 6 mm below timber surface.
2. Pellets: Cut from matching timber, match grain and glue 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.

690 Using powder actuated fixing systems

1. Powder actuated fixing tools: To BS 4078-2 and Kitemark certified.
2. Operatives: Trained and certified as competent by tool manufacturer.

700 Applying adhesives

1. Surfaces: Clean. Adjust regularity and texture to suit bonding and gap filling characteristics of adhesive.
2. Support and clamping during setting: Provide as necessary. Do not mark surfaces of or distort components being fixed.
3. Finished adhesive joints: Fully bonded. Free of surplus adhesive.

Ω End of Section



Specification created using NBS Chorus