

**STOREYS, MANCHESTER
GUESTROOM REFURBISHMENT & PUBLIC
AREA REMODELLING.**

OUTLINE SPECIFICATION

Project Ref: 8180

Date: 15.12.20

Document Ref: S(00)01

Auth: SJM

Rev: A – 17.03.21

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1.0 Introduction

This statement should be read in conjunction with the record drawings from the 2002 remodel, and the current architectural and interior design proposals.

The existing hotel consists of:

- Lower & upper ground floor providing hotel reception, bar / restaurant, meeting rooms, and associated back of house areas including kitchen.
- 15no ground floor guestrooms.
- 22no guestrooms on 1st to 5th floors with ancillary servicing areas.
- 17no guestrooms at 6th floor with ancillary servicing areas.
- Roof top plant areas.

The existing hotel is of masonry construction with timber joisted floors. The 2002 works seem to have been relatively extensive to include a new steel frame throughout the building supporting new infill slabs throughout and the whole fifth & sixth floors.

2.0 Project Description

The project comprises, removal of 4no ground floor guestrooms, opening up of ground floor area, new reception, bar & café at ground floor, strip out of the lower ground floor and refurbishment of guestrooms at 1st to 3rd floor.

3.0 Design Team

Project Manager: Pillar

Cost Consultant: Saville Brown

Interior Designers: Red Deer

Architect: Leach Rhodes Walker

MEP Consultant: IN2

Structural Engineer: RoC Consulting

Approved Inspector: Bureau Veritas

4.0 The site

18-24 Princess St, Manchester M1 4LG

The site is bound by Princess Street to the front elevation, and George Street & Back George Street to the side elevations.

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5.0 Scope of Works

5.1 Lower & Upper Ground Floor

5.1.1 Removal of decorative ceilings & bulkheads to expose the soffit, services and original beams. The existing decorative ceilings & bulkheads are constructed of plasterboard linings of MF which is hung from the existing soffit with proprietary hangers. The soffits have been lined with fireline boards to provide the required fire compartmentation between floors, and the hangers appear to be fixed into the metal frame supporting the soffit boarding.

The fire boarded soffits are to be inspected for integrity and made good and certified by an authorised contractor, particularly at interfaces compartment walls & beams.

Existing services are hung from the existing soffit in the same manner as the suspended ceilings, with ducts & cable trays being supported by uni-strut on hanging rods. The services are to be retained & left in place with some defect units being replaced and additional units where required in line with the MEP consultants recommendations. Please note final specifications will be subject to the MEP sub-contractors proposals. Refer to section 5.3.

Existing fire boarding is in place encasing some of the non-original beams. The existing encasement should be inspected to ensure integrity and where encased in fire batt, the beams should receive a further board encasement leaving the batt in place. Any exposed non-original beams should be encased in fire board. All original beams should be left exposed and intumescent painted.

5.1.2 Removal of non-original staircase & platform lift shaft to street level & modern glazed enclosure. The existing staircase is of reinforced concrete construction and is a self supporting element fixed to the non-original slab at street level and the non-original lower ground floor slab. The adjacent enclosing walls are non-original. The wall on the facade side is blockwork liner supported by a non-original RHS at upper ground floor level, which is to be left in place, and a gypsum metal stud liner at lower ground floor below the RHS, this liner is to be removed to expose the existing original vent / light well to street level. As there are no connections to the original fabric the removal of the existing non-original stair does not have a detrimental effect on the original fabric. The existing non-original glazed enclosure is fixed between fire boarded soffit and structural floor. This element should be carefully removed ensuring the integrity of the fire boarded soffit is maintained.

5.1.3 Removal of existing platform lift & shaft at upper ground floor

The existing non-original platform lift shaft is of blockwork construction built off non-original floor slab at upper ground floor street level. The shaft walls are built up to the underside of structure which in some areas is original floor construction at first floor. Advanced inspections suggest the floor joists are not original and the interface of the wall is to non-original fire boarding. This element should be carefully removed ensuring the integrity of the fire boarded soffit is maintained.

5.1.4 Removal of existing beer drop lift & shaft.

The existing non-original beer drop shaft is of blockwork construction built off the non-original lower ground floor slab. One of the walls is supporting a small element of upper ground joisted floor structure, this wall is to remain in place to retain the floor structure. The void should be infilled by installing joists (to match the existing) supported between the existing original beam and retained block wall.

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5.1.5 Increase of existing staircase opening between upper & lower ground floor.

The existing opening for the non-original staircase (item 5.1.2) is trimmed with non-original steel beams, supporting the original joisted floor construction. The opening is to be increased to next beam line with the existing joists cut back accordingly. Advanced inspections suggest the floor joists are not original. The new opening should be trimmed with new joists to match the existing with patressing beneath to accommodate the head fixing of fire curtains & acoustic screen below (refer to L(00)212).

5.1.6 New openings in original masonry wall on grid line 6.

2no openings are proposed through the existing original masonry wall. These openings should be supported by new steel beams on padstones to the structural engineers details. The opening height should match those existing on grid line 3. The new beams shall be left exposed and intumescent painted.

5.1.7 Removal of existing non-original non-load bearing blockwork walls & partitions.

The existing non-original walls have been inspected and confirmed as non-load bearing built up to the underside of non-original structure. The walls should be carefully removed ensuring the integrity of the fire boarded soffit is maintained.

5.1.8 Replacement of existing acoustic floor to upper ground floor guestroom areas.

The existing non-original guestroom floating floor is made up of T&G chip board on mineral wool insulation. The insulation has degraded and does not provide a suitable & stable base for the proposed area & finishes. The existing chipboard & insulation is to be removed down to the plywood layer which is laid over the original floor boards. All original floor should be left in place and a new independent acoustic floor should be installed in line with the details shown on A(43)02.

5.1.9 Installation of new elements:

- New platform lift.
- New café at upper ground floor level.
- New bar & kitchen at upper ground floor level.
- New hotel reception greeting points & waiter stations.
- New finishes to Red Deer specification throughout the upper ground floor.

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5.2 Guestrooms Level 1-3 Scope of Works

The proposed work at guestrooms levels 1-3 is summarised below:

5.2.1 Removal of existing non-original liner wall to original external wall.

The existing liner wall consists of 1no layer of 12.5mm wallboard on Gypsum I studs. No insulation or vapour barrier is in place so is not deemed to be providing any significant thermal merit, nor in reducing any noise transmission through the jambs of the secondary glazing. The liner wall is constructed independently of the original external wall, but the existing secondary glazing frame is fixed into the original fabric with galvanised angle brackets. All existing fixings into the original fabric are to be left in place. A framing detail is proposed to reduce sound transfer through the secondary glazing jamb, head & cill, which is to be fixed into the existing non-original secondary glazing frame.

5.2.2 Removal of decorative ceilings & bulkheads to expose the soffit, services and original beams.

The existing decorative ceilings & bulkheads are constructed of plasterboard linings of MF which is hung from the existing soffit with proprietary hangers. The soffits have been lined with fireline boards to provide the required fire compartmentation between floors, and the hangers appear to be fixed into the metal frame supporting the soffit boarding.

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Existing fire boarding is in place encasing some of the non-original beams. The existing encasement should be inspected to ensure integrity and where encased in fire batt, the beams should receive a further board encasement leaving the batt in place. Any exposed non-original beams should be encased in fire board. All original beams should be left exposed and intumescent painted.

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The existing non-original guestroom floating floor is made up of T&G chip board on mineral wool insulation. The insulation has degraded and does not provide a suitable & stable base for the proposed area & finishes. The existing chipboard & insulation is to be removed down to the plywood layer which is laid over the original floor boards. All original floor should be left in place and a new independent acoustic floor should be installed in line with the details shown on A(43)01.

5.2.4 Removal of non-original elements not referenced above:

- Removal of all existing casegoods & sanitaryware.
- Removal of all walls finishes back to Fireline.
- Removal of bathroom wall to room type A.
- Removal of liner wall concealing existing services.
- Removal of defective floating floor where appropriate.
- Remove existing corridor ceiling.
- Strip out existing store room.

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5.2.5 Installation of new elements:

- Install new acoustic floating floor as required.
- Install / apply new finishes to Red Deer specification.
- Install new liner wall with access panels to conceal bathroom services.
- Install new casegoods & sanitaryware to Red Deer specification.
- Install new pantry to existing store room to Red Deer specification.

5.3 MEP

5.3.1 Ground Floor:

The Ground Floor MEP drawings scheduled below illustrate the proposed HVAC services. On these drawings are all proposed FCUs, grilles, ductwork, pipework, etc. It is proposed that the Ground Floor front-of-house existing MEP services are stripped out entirely and replaced with new services. These proposed services shall tie back into the existing MEP riser in the central core as shown.

L20006-IN2-01-00-DR-M-1001

L20006-IN2-01-00-DR-M-2001

L20006-IN2-01-00-DR-M-3001

5.3.2 Guestrooms:

The Guestroom MEP drawings scheduled below illustrate the existing and proposed MEP services. On these drawings are all proposed FCUs, grilles, lighting, power, ductwork, pipework, containment, etc. There are two guestroom types; A and B. Type A guestrooms are more service intensive and involve mostly all new MEP services (including waste/water to bathrooms, new FCUs, new lighting, etc.). Type B guestrooms are less service intensive, and involve a light refurbishment as and where required (for example, new FCU). All basebuild services are generally being retained and refurbished. This includes all primary heating plant, cooling plant, ventilation plant, water plant, switchboards, etc. All primary MEP services distribution serving guestrooms are generally being retained where possible, including heating pipework, chilled water pipework, water pipework, fresh air ductwork, extract ductwork, electrical busbar, etc.

L20006-IN2-01-02-DR-M-2001

L20006-IN2-ZZ-ZZ-DR-M-0001

L20006-IN2-ZZ-ZZ-DR-M-0002

L20006-IN2-ZZ-ZZ-DR-M-0061

L20006-IN2-ZZ-ZZ-DR-M-0062

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6.0 Features & Finishes

All existing finishes are non-original and largely provided during the 2002 extension / refurbishment. The Donald Insall Heritage statement has highlighted the existing hotel displays little of the original building and conceals or has replaced any of the original elements.

There is no evidence of any existing original cornices, panelling or skirtings, although the existing non-original skirting are to be retained & re-used on the guestroom floors.

The existing original building is or masonry construction and the proposal looks to expose elements of this on the guestroom floors and on the upper ground floor. A sealing solution should be proposed to prevent dust & debris and provide a 20-30% whitewash to even inconsistencies in previous patch repairs.

Wall tiles are proposed to ensuites / WC's / shower areas, otherwise all boarded walls should be prepared for a paint finish.

Soffits are to be exposed to fire boarding and paint finished along with soffit mounted services.

Remedial work is proposed to the existing acoustic floating floors to the guestrooms & upper ground floor as highlighted in the previous sections to replace defective areas and provide a robust sub-strate suitable for the proposed use.

The proposed floor finish in the type A guestrooms is a stained & sealed timber plank, laid butt jointed to imitate the existing floor boards beneath. A replacement carpet is proposed to the type B guestroom.

The upper ground floor is to receive a continuous layer of cement board in preparation of receiving the bespoke tiled finish.

Existing non-original columns are encased with fire boarding, and this is to be retained generally to assist with acoustic flanking in the guestrooms and compartmentation at floor levels. Some columns are to be exposed in key areas as highlighted on the L(26) code demolition plans. These will be intumescent painted to achieve 90min FP and a collar or fire batt with compound applied at base & head to ensure floor to floor compartmentation is maintained.

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7.0 C20 Demolition

To be read with Preliminaries/General conditions

GENERAL REQUIREMENTS

100 READ IN CONJUNCTION WITH LRW SERIES L(26) DRAWINGS.

140 BENCH MARKS

- 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

- 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

- Services affected by deconstruction/ demolition work: Locate and mark positions.
- Mains services marking: Arrange with the appropriate authorities for services to be located and marked.

- 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

- 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.

240 DISCONNECTION OF DRAINS

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

250 LIVE FOUL AND SURFACE WATER DRAINS

- Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings:
- Protect; maintain normal flow during deconstruction/ demolition.
- Make good any damage arising from deconstruction/ demolition work.
- Leave clean and in working order at completion of deconstruction/ demolition work.
- Other requirements: Post completion camera survey; extent to be confirmed.

260 SERVICE BYPASS CONNECTIONS

- 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.
- Minimum notice to adjoining owners and all affected occupiers: 72 hours, if shutdown is necessary during changeover.

270 SERVICES TO BE RETAINED

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

DECONSTRUCTION/ DEMOLITION WORK

310 WORKMANSHIP

- Standard: Demolish structures in accordance with BS 6187.
- Operatives:
- Appropriately skilled and experienced for the type of work.
- Holding, or in training to obtain, relevant CITB Certificates of Competence.
- 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

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

330 DUST CONTROL

- 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.
- Lead dust: Submit method statement for control, containment and clean-up regimes.

340 HEALTH HAZARDS

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

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350 ADJOINING PROPERTY

- Temporary support and protection: Provide. Maintain and alter, as necessary, as work proceeds. Do not leave unnecessary or unstable projections.
- Defects: Report immediately on discovery.
- Damage: Minimize. Repair promptly to ensure safety, stability, weather protection and security.
- Support to foundations: Do not disturb.

360 STRUCTURES TO BE RETAINED

- Extent: As drawings.
- Parts which are to be kept in place: All existing original fabric.
- Interface between retained structures and deconstruction/ demolition: Cut away and strip out with care to minimize making good.

370 PARTLY DEMOLISHED STRUCTURES

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

380 DANGEROUS OPENINGS

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

391 ASBESTOS-CONTAINING MATERIALS – UNKNOWN OCCURRENCES

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

410 UNFORESEEN HAZARDS

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

420 OPEN BASEMENTS, ETC

- Temporary support: Leave adequate buttress walls or provide temporary support to basement retaining walls up to ground level.
- Safety: Make remaining sections of retaining and buttress walls safe and secure.
- 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.

MATERIALS ARISING

510 CONTRACTOR'S PROPERTY

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

520 RECYCLED MATERIALS

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

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**8.0 K Linings / Sheathing / Dry Partitioning
K10 Plasterboard dry linings/ partitions/ ceilings**

To be read with Preliminaries/ General conditions.

TYPES OF DRY LINING

115A FOR ALL PARTITION DETAILS AND SPECIFICATIONS REF TO LRW A(42), L(42), L(35), A(35) DRAWING SERIES

GENERAL/ PREPARATION

305 COMPLIANCE WITH PERFORMANCE REQUIREMENTS

- Testing/ Assessment: Submit UKAS accredited laboratory reports for the following: Fire resistance: Partitions (including deflection heads and doorsets) and suspended ceilings (including access units)..

- Materials, components and details: As used in testing/ assessment reports. If discrepancies arise, give notice.

325 PREPARATION OF MASONRY TO RECEIVE WALL LININGS

- General: Suitable to receive lining system. Redundant fixtures and services removed. Cutting, chasing and making good completed.

- Holes, gaps, service penetrations, perimeter junctions and around openings: Seal.

- Adhesive fixings: Prepare substrate to achieve effective bonding.

- Contaminants: Remove loose material, dirt, grease, oil, paper, etc.

- Absorption: Control by dampening, priming or applying bonding agents as necessary.

335 ADDITIONAL SUPPORTS

- Framing: Accurately position and securely fix to give full support to:

- Partition heads running parallel with, but offset from main structural supports.

- Fixtures, fittings and service outlets. Mark framing positions clearly and accurately on linings.

- Board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.

375 NEW WET LAID BASES

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

- Material: Bituminous sheet or plastics.

COMPONENTS

INSTALLATION

435 DRY LININGS GENERALLY

- General: Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.

- Cutting plasterboards: Neatly and accurately without damaging core or tearing paper facing.

- Cut edges: Minimize and position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.

- Fixings boards: Securely and firmly to suitably prepared and accurately levelled backgrounds.

- Finishing: Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

445 CEILINGS

- Sequence: Fix boards to ceilings before installing dry lined walls and partitions.

- Orientation of boards: Fix with bound edges at right angles to supports and with ends staggered in adjacent rows.

- Two layer boarding: Stagger joints between layers.

455 METAL FRAMING FOR PARTITIONS/ WALL LININGS

- Setting out: Accurately aligned and plumb.

- Frame/ Stud positions: Equal centres to suit specified linings, maintaining sequence across openings.

- Additional studs: To support vertical edges of boards.

- Fixing centres at perimeters (maximum): 600 mm.

- Openings: Form accurately.

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- 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.

- Services penetrations: Allow for associated fire stopping.

485 SUSPENDED CEILING GRIDS

• Setting out: Accurately aligned and level.

- Grid members and hangers: Centres to suit specified linings and imposed loads.

- Additional grid members: Provide bracing and stiffening at upstands, partition heads, access hatches, etc.

• Fixing: Securely at perimeters, grid joints, top and bottom hanger fixings.

505 INSTALLING MINERAL WOOL INSULATION

• Fitting insulation: Closely butted joints and no gaps. Use fasteners to prevent slumping or displacement.

• Services:

- Electrical cables overlaid by insulation: Sized accordingly.

- Ceilings: Cut insulation around electrical fittings, etc.

510 SEALING GAPS AND AIR PATHS

• Location of sealant: To perimeter abutments and around openings.

- Pressurized shafts and ducts: At board-to-board and board-to-metal frame junctions.

• Application: To clean, dry and dust free surfaces as a continuous bead with no gaps.

- Gaps greater than 6 mm between floor and underside of plasterboard: After sealing, fill with jointing compound.

530 CAVITY FIRE BARRIERS WITHIN PARTITIONS/ WALL LININGS

• Metal framed systems:

- Material: As per LRW details.

- Installation: Form accurately and fix securely with no gaps to provide a complete barrier to smoke and flame.

• Adhesive fixed wall lining systems:

- Material: Adhesive compound.

- Installation: Form in a continuous line with no gaps to provide a complete barrier to smoke and flame.

545A CAVITY FIRE BARRIERS WITHIN SUSPENDED CEILINGS

• As per LRW details as required.

• Fixing at perimeters and joints: Secure, stable and continuous with no gaps, to provide a complete barrier to smoke and flame.

• Service penetrations: Cut and pack to maintain barrier integrity. Sleeve flexible materials. Adequately support services passing through barrier.

• Ceiling systems for fire protection: Do not impair fire resisting performance of ceiling system.

555 FIRE STOPPING AT PERIMETERS OF DRY LINING SYSTEMS

• Material: Tightly packed mineral wool or intumescent mastic/ sealant.

• Application: To perimeter abutments to provide a complete barrier to smoke and flame.

560 JOINTS BETWEEN BOARDS

• Tapered edged plasterboards:

- Bound edges: Lightly butted.

- Cut/ unbound edges: 3 mm gap.

• Square edged plasterboards: 3 mm gap.

• Square edged fibre reinforced gypsum boards: 5 mm gap.

565 VERTICAL JOINTS

• Joints: Centre on studs.

- Partitions: Stagger joints on opposite sides of studs.

- Two layer boarding: Stagger joints between layers.

570 HORIZONTAL JOINTS

• Surfaces exposed to view: Horizontal joints not permitted. Seek instructions where height of partition/ lining exceeds maximum available length of board.

• Two layer boarding: Stagger joints between layers by at least 600 mm.

• Edges of boards: Support using additional framing.

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

595 DEFLECTION HEADS

- Fixing boards: Do not fix to head channels.
- 610 FIXING PLASTERBOARD TO TIMBER
- Fixing to timber: Securely at the following centres (maximum):
- Nails: 150 mm.
- Screws to partitions/ wall linings: 300 mm. Reduce to 200 mm at external angles.
- Screws to ceilings: 230 mm.
- Position of nails/ screws from edges of boards (minimum):
- Bound edges: 10 mm.
- Cut/ unbound edges: 13 mm.
- Position of nails/ screws from edges of timber supports (minimum): 6 mm.

FINISHING

650 LEVEL OF DRY LINING ACROSS JOINTS

- Sudden irregularities: Not permitted.
 - 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.
 - Tapered edge joints:
- Permissible deviation (maximum) across joints when measured with feet resting on boards: 3 mm.
- External angles:
- Permissible deviation (maximum) for both faces: 4 mm.
- Internal angles:
- Permissible deviation (maximum) for both faces: 5 mm.

670 SEAMLESS JOINTING TO PLASTERBOARDS

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

680 SKIM COAT PLASTER FINISH

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

692 RIGID BEADS/STOPS

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

695 INSTALLING BEADS/ STOPS

- Cutting: Neatly using mitres at return angles.
- Fixing: Securely using longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with substrate.
- Finishing: After joint compounds/ plasters have been applied, remove surplus material

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while still wet from surfaces of beads exposed to view.

725 REPAIRS TO EXISTING PLASTERBOARD

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

K30 Panel partitions

Polar 101 Double Glazed partition system

- **Manufacturer:** Komfort Partitioning Ltd
 - Web: www.komfort.com
 - Email: david.gravil@komfort.com
 - Tel: 07966 116551 or 0113 3956565
- **Product reference:** Polar 101 Double glazed Krossglaze System
- **Project Name:** Lower ground Workshops
- **Project Ref:** 12843
- **Location:** Lower Ground Workshops
- **Layout:** As drawing
- **Performance of completed system:** Severe Duty
 - **Fire resistance to BS 476-22:** Non-rated – refer to drawings for locations
 - **Acoustic insulation to BS EN ISO 10140-1:2010 + BS EN ISO 10140-2:2010:** 54dB (Rw)
 - **Structural Performance in accordance with BS 52342:1992 and BS 6180:2011:** N/A
- **Partition height:** To suit floor to ceiling height up to 3200mm
 - **Deflection allowance:** Not required
- **Glazed panels:** into 100mm head channel (K101HT) with 2 x Horizontal internal glazing bar (K100KGI) and applied glazing bar (109)
 - **Glass:** 12.8mm acoustic & 16.8mm acoustic with Internal and Applied Krossglaze (54dB(Rw))
 - **Glazing joints:**
 - **In-line:** Internal Mullion with applied joint cap (109)
 - **90° Corner junction:** Bubble Joint (SJ34/k35BJ)
 - **Manifestation:** TBC by Client
- **Framework finish:** Kolourframe polyester powder coated
 - Colour: Velocity Black RAL 9005 (TBC)
- **Incorporated features:**
 - **Door:** Housed in Aluminium door frame (K100DF)
 - **Fire rating:** Non-rated
 - **Type:** Sonik Acoustic Glass (hinged) 40dB (Rw)
 - **Size:** 2700mm x 900 mm x 44mm
 - **Finish:** Sonik framed double glazed
 - **Vision panel:** N
 - **Overpanel:** Yes – as part of system
 - **Ironmongery:** SSS 720mm Guardsman pull handle & TS93 door closer
 - **Blind:** N/A
- **Installation:** Frame installation and glazing to be carried out by Komfort Partitioning Solutions approved installer.

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Raised Floors

FOR DETAILS AND SPECIFICATIONS REFER TO LRW A(43) DRAWING SERIES

Sub-Floor Preparation: Prior to installing the DECKfon® Batten 45, it is important that the subfloors are dry, level and structurally sound. The floors should be levelled to have a tolerance of at least SR2, this equates to a maximum 5mm gap over a two metre straight edge.

Installation of Battens: Starting in the far left hand corner of the room, install DECKfon® Batten 45 foam side down, around the perimeter of the room, leaving a 50mm gap between the batten and the walls. Place subsequent rows of DECKfon® Battens across the floor at a maximum of 400mm centres under HiDECK® Structural or 18mm chipboard. If installing 22mm chipboard over the battens these can be installed at a maximum of 600mm centres. Install any mineral wool required between the rows of battens. For services that need to run through the floor ensure the batten is not in contact with the pipe. Battens must not be notched out for services and these should be positioned at least 150mm away from the wall to avoid clashing with the perimeter batten. Ensure any services will not come in contact with the board once it is installed on the battens - if registering for Robust Details, the gap between the subfloor and overlay board must be a minimum 50mm when the floor is loaded to 25kg/m² in accordance with the Robust Details handbook.

Flooring Board Options 1 & 2: HiDECK® Structural If installing HiDECK® Structural over the top of the DECKfon® Batten 45 system refer to the HiDECK® installation guide found on the company website or by contacting the technical department.

Both the edge(s) of the overlay board and skirting boards must be isolated from the wall treatment with YELOfon® Edge Strip. Failure to do so will result in acoustic failure.

Partitions and thresholds: Any internal partitions built off the subfloor must be isolated from the floor treatment using the YELOfon® Edge Strip. Should lightweight, non-loadbearing partitions be built off the acoustic treatment, battens should be doubled up underneath.

At a door threshold, place one batten under the leading edge of the apartments floor deck and one under the communal areas floor deck, leaving a 5mm (min) gap between the overlay board. Ensure that any detail complies with the regulations set out in Part B of building regulations (Fire Safety).

Sanitary Wear & Kitchen Units: Under high load areas, such as kitchen or bathrooms, bring the centres of the DECKfon® Batten 45 in to create a 300mm x 300mm grid. Should it be deemed necessary please seek further loading advice from a structural engineer.

Flooring Board Option 2: Sub-Floor Preparation Prior to installing the ScreedBoard® 28/30, it is important that the subfloors are dry, level and structurally sound. The floor should have a tolerance of at least SR2, this equates to a maximum 5mm gap over a two metre straight edge.

Levelling of Subfloors: For uneven timber floors, packers should be installed under the sub-floor and any loose floorboards should be secured to the joists using suitable screws.

Installation of ScreedBoard® 28/30: Starting in the far left hand corner of the room, place 6-8mm packers against both walls and install the first ScreedBoard® 28 with the tongue of the short and long side facing the wall. TOP TIP - Do not use the YELOfon® FS/ES in place of packers as this is a compressible material Run a bead of Collecta Pro Adhesive along the short groove of the ScreedBoard® 28/30. Interlock the next board of ScreedBoard® 28/30, ensuring the joints are flush and the edges line up exactly. Place the ScreedBoard® Fixing Batten carefully in the groove of the second ScreedBoard® and tap with a club hammer to ensure there are no gaps showing between the boards. Repeat the process across the floor. At wall abutments, measure the gap from the laid ScreedBoard® to the wall allowing for a 5mm gap between the wall and the ScreedBoard®. Using a hand or circular saw cut the ScreedBoard® to the required length. Although not hazardous, ScreedBoard® can produce a fine dust when cut. Ensure a suitable face mask and dust extracon are used and cut the boards in a well ventilated area in accordance with the Safety Data Sheet.

Apply Collecta Pro Adhesive in the groove and install to complete the row. Place the ScreedBoard® Pull Bar over the edge of the board nearest the wall and tap gently with a club hammer to fully interlock the boards. Apply a bead of Collecta Pro Adhesive along the long edge of the first board of ScreedBoard® 28/30. Ensuring the cut is on the outside, use the off cut of ScreedBoard® to begin the next row. Where possible, it is advised that any off cut should be no less than 100mm in width. Install the long edge of the ScreedBoard®, leaving approximately a 30mm gap between the short edges. Ensure there is no gap between the long edge. Using the Laying Timber, gently tap the short edge into place ensuring that all edges line up. The remainder of the ScreedBoard® is then installed in a

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brick bond formation ensuring all boards are glued and tightly interlocked. It is important that none of the boards are in contact with any walls or door treatments as this can result in acoustic failure. Remove the packing shims from around the ScreedBoard® and install YELOfon® FS strip around all perimeters to isolate the ScreedBoard® and stop flanking transmission. Any soil pipes or services that penetrate the ScreedBoard® should be isolated from the board using YELOfon® ES/FS. If

undertaking dry lining after the boards have been installed, care should be taken to protect the ScreedBoard® from excessive point loads of further trades (ie. plasterboard trolleys). All plasterboard, as well as the skirting boards must be isolated from the ScreedBoard® by the YELOfon® FS Strip

Sanitary Ware & Kitchen Units: All kitchen units and sanitary ware can be built off the structural floor or ScreedBoard®. If building off the structural floor ensure a gap is left between units, overlay board and any floor finish. Seal any gaps with a suitable mass. If required raise the height of the sanitary ware or units to suit the finished height of the ScreedBoard® 28/30 and selected floor finish. If fixing kitchen units/sanitary ware to the ScreedBoard® 28/30, care must be taken to ensure that no mechanical fixings penetrate the resilient layer.

Door Thresholds: At door thresholds between apartments and communal areas or under any boards that are butt jointed, install RUBBERfon® TSS (Threshold Support Strip). With a sharp knife, carefully trim back 35mm of the resilient layer from the leading edges of the ScreedBoard®'s and install the 75mm RUBBERfon® TSS. When adopting the threshold detail between communal and habitable areas particular attention must be paid to Building Regulations Part B - Fire Safety.

Floor Finishes: Carpet Underlays and carpet can be installed directly over the ScreedBoard® 28/30 without additional preparation. If mechanically fixing carpet grippers, care must be taken not to penetrate the resilient layer. If bonding carpet tiles to the ScreedBoard® follow the below steps to prime the floor prior to installation

Wooden and laminate floors Ensure any wood flooring is acclimatised to the room it will be installed in, in accordance with the manufacturers guidance. Where possible wood flooring should be laid at a 90 degree angle to the ScreedBoard® 28/30. Allow suitable expansion joints around the perimeter of the room in line with the manufacturers advice. If wooden flooring needs to be mechanically fixed, care should be taken to not penetrate the resilient layer. If the flooring needs to be adhered to the ScreedBoard®, the board will need priming. **Tiles** Before installing any tiles, take time to plan and review the installation guidelines from the tile manufacturer. All tiles should be installed in line with these and the relevant British Standards. Prime and seal the floor using Collecta Primer to the clean dry surface using a long handled foam roller, do not pour directly onto the ScreedBoard®. Allow to thoroughly dry (approx 2-4 hours). Do not use in confined spaces without adequate ventilation. Wear suitable clothing, gloves and face mask. For full details, see Collecta's safety data sheets. Once dried, install the tile adhesive onto the primed ScreedBoard® and install tiles in accordance with the manufacturers guidelines. Where possible, tiles should be installed from the centre of the floor outward to ensure cuts are positioned against the perimeter of the room. For larger format tiles, speak to the technical team prior to commencing installation. For natural stone tiles a decoupling membrane may be required, please check with your tile manufacturer before installing.

Vinyl If installed correctly, ScreedBoard® 28/30 will give a seamless finish that can accept vinyl flooring directly. Remove any debris from the surface of the ScreedBoard® and scrape away any excess adhesive from the joints. Carefully check the floor installation to identify any imperfections that may show through the vinyl. For minor repairs mix Collecta FC180 to the desired consistency with cold clean water - typically using 200ml of water to 1kg of powder. In a clean container, sprinkle in the FC180 to the water whilst mixing vigorously until lump free. Mix only as much as can be applied within 10-15 minutes. Spread the FC180 mix evenly into the areas in need of repair with a smoothing trowel. Leave for approx. 15 minutes and then re-work to smooth. Sand back any excess ridges that may show through the vinyl. Should it be deemed necessary, Collecta RL24 can be installed over the ScreedBoard® 28/30. Follow the above steps to ensure that no levelling compound can migrate through any larger gaps in the ScreedBoard®. Prime and seal the ScreedBoard® in accordance with the instructions above. In a clean container, mix Collecta RL24 in a ratio of 25kg of dry powder to 6 litres of clean water to a smooth and lump free consistency (ratio to be maintained for part quantities). Using a smoothing trowel, apply to the prepared surface to the required thickness. Allow to fully dry before proceeding (24 hours @ 3mm). Vinyl can be installed directly to the RL24 without additional primer

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9.0 L Windows / Doors / Stairs

L10 Windows/ Rooflights/ Screens/ Louvres

To be read with Preliminaries/ General conditions.

GENERAL

110 EVIDENCE OF PERFORMANCE

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

155 VIEW OUT

- Windows/ opening sizes and position: Design to meet BREEAM 'View out' criteria for relevant building type.
- Submit design plan and elevation drawings showing the following:
 - All BREEAM defined 'relevant areas' dependent on building type and room depths.
 - Actual or notional workstation/ desk layouts.
 - Window/ open areas.
- Submit site plan showing: Building location and proximity to external obstructions.

PRODUCTS

205 WINDOW MATERIALS SPECIFICATION

210A READ IN CONJUNCTION WITH LRW SERIES DRAWINGS L(31) AND SCHEDULES S(31) FOR ALL WINDOW TYPES AND PRODUCT SPECIFICATIONS/ EQUAL AND APPROVED

- Ref to L(31) AND SCHEDULES S(31)

EXECUTION

710 PROTECTION OF COMPONENTS

- General: Do not deliver to site components that cannot be installed immediately or placed in clean, dry floored and covered storage.
- 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

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

750 BUILDING IN

- General: Not permitted unless indicated on drawings.
 - Brace and protect components to prevent distortion and damage during construction of adjacent structure.

765 WINDOW INSTALLATION GENERALLY

- Installation: Into prepared openings.
- Gap between frame edge and surrounding construction:
 - Minimum: as per manufacturers recommendations.
 - Maximum: as per manufacturers recommendations.
- Distortion: Install windows without twist or diagonal racking.

770 DAMP PROOF COURSES IN PREPARED OPENINGS

- Location: Ensure correct positioning in relation to window frames. Do not displace during fixing operations.

781 FIXING OF STEEL FRAMES

- Standard: As section Z20.
- Fasteners: as per manufacturers recommendations.
 - Spacing: When not predrilled or specified otherwise, position fasteners not less than 50 mm and not more than 190 mm from ends of each jamb, adjacent to each hanging point of opening lights and at maximum 900 mm centres.

782 FIXING OF ALUMINIUM FRAMES

- Standard: As section Z20.
- Fasteners: as per manufacturers recommendations.
 - Spacing: When not predrilled 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.

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790 FIRE RESISTING FRAMES

- Gap between back of frame and reveal: Completely fill with intumescent mastic or tape.

810 SEALANT JOINTS

- Sealant:

- Manufacturer: ADSHEAD RATCLIFFE or similar approved.

Product reference: To suit application.

- Colour: Ref to drawn details.

- Application: As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile.

820 IRONMONGERY

• 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.

• Checking/ Adjusting/ Lubricating: Carry out at Completion and ensure correct functioning.

L20 Doors/ shutters/ hatches

To be read with Preliminaries/ General conditions.

GENERAL

110 EVIDENCE OF PERFORMANCE

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

112 TIMBER PROCUREMENT

• Timber (including timber for wood-based products): Obtained from well-managed forests and/ or plantations in accordance with:

- The laws governing forest management in the producer country or countries.

- International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).

• Documentation: Provide either:

- Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.

- Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.

• Certification scheme: Submit proposals.

- Other evidence: None.

115 FIRE RESISTING AND SMOKE CONTROL PEDESTRIAN DOORS/ DOOR ASSEMBLIES/ DOORSETS

• 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).

• Door products: As defined in BS EN 12519.

• 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.

• 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

• 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.

• Components and assemblies will be marked to the relevant CE marking European product standard (hEN), national product standard and/ or third party certification rating.

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PRODUCTS

210A READ IN CONJUNCTION WITH LRW SERIES SCHEDULES S(32) INTERNAL DOORS AND A & L(32) DRAWINGS.

PRODUCT SPECIFICATION

EXECUTION

710 PROTECTION OF COMPONENTS

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

730 PRIMING/ SEALING

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

750 FIXING DOORSETS

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

760 BUILDING IN

- General: Not permitted unless indicated on drawings.

770 DAMP PROOF COURSES ASSOCIATED WITH BUILT-IN WOOD FRAMES

- Method of fixing: To backs of frames using galvanized clout nails.

780 DAMP PROOF COURSES IN PREPARED OPENINGS

- Location: Correctly positioned in relation to door frames. Do not displace during fixing operations.

790 FIXING OF WOOD FRAMES

- 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

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

809 FIRE RESISTING AND SMOKE CONTROL DOORS/ DOOR ASSEMBLIES/ DOORSETS/ ROLLER SHUTTERS AND CURTAINS - ACCREDITED INSTALLER

- Installation: 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.

811 FIRE RESISTING AND SMOKE CONTROL DOORSETS, INDUSTRIAL, COMMERCIAL AND GARAGE DOORS

- Installation: By manufacturer or their approved installers, in accordance with requirements of BS EN 16034 and in conjunction with BS EN 13241, including the Declaration of Performance (DoP) certification for the CE marked doorset.

830 FIXING IRONMONGERY GENERALLY

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

840 FIXING IRONMONGERY TO FIRE RESISTING DOOR ASSEMBLIES

- 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.
- Holes for through fixings and components: Accurately cut.
- Clearances: Not more than 8 mm unless protected by intumescent paste or similar.
- Lock/ Latch cases for fire doors requiring > 60 minutes integrity performance: Coated with intumescent paint or paste before installation.

850 LOCATION OF HINGES

- Primary hinges: Where not specified otherwise, positioned with centre lines 250 mm from top and bottom of door leaf.
- Third hinge: Where specified, positioned as per fire certificate .

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- Hinges for fire resisting doors: Positioned in accordance with door leaf manufacturer's recommendations.

860 INSTALLATION OF EMERGENCY EXIT DEVICES

- Standard: Unless specified otherwise, install panic bolts/ latches in accordance with BS EN1125.

10.0 M Surface Finishes

M10 Cement based levelling/ wearing screeds

To be read with Preliminaries/General conditions.

TYPES OF SCREED

100 READ IN CONJUNCTION WITH LRW DRAWING SERIES (L43) All materials installed to manufacturers details and instructions

130C LEVELLING SCREEDS .

- Substrate: RC Slab.
- Screed manufacturer:.
- Product reference:.
- Screed construction: Floating, as clause 290A.

Thickness:

- Nominal: To suit existing.
- Minimum: 50mm.

• Mix:

- Cement: As recommended by screed manufacturer.
- Proportions: To manufacturer's recommendations.
- Flatness/ Surface regularity class: As manufacturers recommendations.
- Finish: As manufacturers recommendations.
- To receive: Varies, Refer to finishes schedule.
- Other requirements: Movement joints - Ref to setting out drawings, topped with REGUPOL 4515 resilient layer..

192A PROPRIETARY SELF SMOOTHING WEARING SCREEDS WHERE REQUIRED

- Substrate: In situ concrete.
- Screed manufacturer: ARDEX.
- Product reference: K80 or similar, site visit by product manufacturer required to ascertain best product for application.
- Screed construction: Fully bonded.

• Thickness:

- Minimum: 5mm.

Finish: Self finished.

- Slip resistance value (minimum): As standard, manufacturer to give guidance.

GENERALLY/ PREPARATION

210 SUITABILITY OF SUBSTRATES

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

220 PROPRIETARY LEVELLING/ WEARING SCREEDS

- General: Materials, mix proportions, mixing methods, minimum/ maximum thicknesses and workmanship must be in accordance with recommendations of screed manufacturer.
- Standard: In accordance with BS 8204-3.

250 CONDUITS UNDER FLOATING SCREEDS

- Haunching: Before laying insulation for floating screeds, haunch up in 1:4 cement:sand on both sides of conduits.

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255 PIPE DUCTS/ TRUNKING

- Preformed access ducts: Before laying screed, fix securely to substrates and level accurately in relation to finished floor surface.

290A FLOATING CONSTRUCTION

- Insulation:
 - Installation: Lay with tight butt joints. Continue up at perimeter abutments for full depth of screed.
- Separating layer:
 - Installation: Lay over insulation and turn up at perimeter abutments. Lap 100 mm at joints.

295 FLOATING CONSTRUCTION (THIN SHEET IMPACT SOUND INSULATION)

- Substrate: Remove projections that may puncture the insulation.
- Insulation:
 - Type: REGUPOL 4515 resilient layer.
 - Installation: Lay on substrate. Turn up for full depth of screed at perimeter abutments. Lap 100 mm at joints and seal with tape.
 - Perimeter: Maintain isolation of screed.

BATCHING/ MIXING

302 CEMENTS

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

305 AGGREGATES

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

307 ADMIXTURES

- Standard: In accordance with BS 8204-1, Table 1.
- Calcium chloride: Do not use in admixtures.

310 BATCHING WITH DENSE AGGREGATES

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

311 BATCHING WITH LIGHTWEIGHT AGGREGATES

- Standard: In accordance with BS 8204-1, Annex A.
- Mix proportions: Specified by volume.
- Batching: Use accurate gauge boxes.

330 MIXING

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

335 IN SITU CRUSHING RESISTANCE (ISCR)

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

340 ADVERSE WEATHER

- Screeds surface temperature: Maintain above 5°C for a minimum of four days after laying.

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- Hot weather: Prevent premature setting or drying out.

LAYING

355 FLATNESS/ SURFACE REGULARITY OF FLOOR SCREEDS

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

375 COMPACTION OF SCREEDS

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

405 JOINTS IN LEVELLING SCREEDS GENERALLY

- Laying screeds: Lay continuously using 'wet screeds' between strips or bays. Minimize defined joints.

- Daywork joints: Form with vertical edge.

406 BAY JOINTS IN LEVELLING SCREEDS

- Screed type: As clause 130.

- Bay sizes:

- Area (maximum): To manufacturers specification.
- Length (maximum): To manufacturers specification.

- Location of bay joints: Coordinate with those required for substrate slab and floor covering.

440 CRACK INDUCING GROOVES IN LEVELLING SCREEDS

- Groove depth: At least half the depth of screed.
- Cutting grooves: Straight, vertical and accurately positioned. Select from the following:
 - Trowel cut as screed is laid.
 - Saw cut sufficiently early after laying to prevent random cracking.

FINISHING/CURING

510 FINISHING GENERALLY

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

540 TROWELLED FINISH TO LEVELLING SCREEDS

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

650 CURING

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

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M40 Stone/ concrete/ quarry/ ceramic tiling/ mosaic

To be read with Preliminaries/ General conditions.

TYPES OF TILING/ MOSAIC

110A READ IN CONJUNCTION WITH RED DEER DRAWINGS & SPECIFICATION

GENERAL

210 SUITABILITY OF BACKGROUNDS/ BASES

• Background/ base tolerances: To permit specified flatness/ regularity of finished surfaces given the permissible minimum and maximum thickness of bedding.

• New background drying times (minimum):

- Concrete walls: 6 weeks.

- Brick/ block walls: 6 weeks.

- Rendering: 2 weeks.

- Gypsum plaster: 4 weeks.

• New base drying times (minimum):

- Concrete slabs: 6 weeks.

- Cement:sand screeds: 3 weeks.

215 FALLS IN THE BASES

• General: Give notice if falls are inadequate.

PREPARATION

310 EXISTING BACKGROUNDS/BASES GENERALLY

• Efflorescence, laitance, dirt and other loose material: Remove.

• Deposits of oil, grease and other materials incompatible with the bedding: Remove.

• Tile, paint and other nonporous surfaces: Clean.

• Wet backgrounds: Dry before tiling.

355 OLD ADHESIVE RESIDUES ON CONCRETE/SCREED BASES

• Soft or unsound adhesive residues: Remove without damaging base.

360 EXISTING PAINT

• Paint with unsatisfactory adhesion: Remove so as not to impair bedding adhesion.

370 NEW IN SITU CONCRETE

• Backgrounds/ bases to be tiled: Remove mould oil, surface retarders and other materials incompatible with bedding.

380 NEW PLASTER

• Plaster: Dry, solidly bedded, free from dust and friable matter.

• Plaster primer: Apply if recommended by adhesive manufacturer.

390 PLASTERBOARD BACKGROUNDS

• Boards: Dry, securely fixed and rigid with no protruding fixings and face to receive decorative finish exposed.

460 SMOOTHING UNDERLAYMENT

• Type: Recommended by adhesive manufacturer.

• Condition: Allow to dry before tiling.

FIXING

510 FIXING GENERALLY

• Colour/ shade: Unintended variations within tiles for use in each area/ room are not permitted.

- Variegated tiles: Mix thoroughly.

• Adhesive: Compatible with background/ base. Prime if recommended by adhesive manufacturer.

• Use of admixtures with cementitious adhesives: Only admixtures approved by adhesive manufacturer.

• Cut tiles: Neat and accurate.

• Fixing: Provide adhesion over entire background/ base and tile backs.

• Final appearance: Before bedding material sets, make adjustments necessary to give true, regular appearance to tiles and joints when viewed under final lighting conditions.

• Surplus bedding material: Clean from joints and face of tiles without disturbing tiles.

530 SETTING OUT

• Joints: True to line, continuous and without steps.

- Joints on walls: Horizontal, vertical and aligned round corners.

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- Joints in floors: Parallel to the main axis of the space or specified features.
- Cut tiles: Minimize number, maximize size and locate unobtrusively.
- Joints in adjoining floors and walls: Align.
- Joints in adjoining floors and skirtings: Align.
- Movement joints: Where locations are not indicated, submit proposals.
- Setting out of . : Drawing references: ..
- Setting out of . : Submit proposals.

540 LEVEL OF FLOOR TILING

- Permissible deviation in level from datum as per the British Standard recommendations.

550 FLATNESS/ REGULARITY OF TILING/ MOSAICS

- Sudden irregularities: Not permitted.
- Deviation of surface: Measure from underside of a 2 m straightedge with 3 mm thick feet placed anywhere on surface. The straightedge should not be obstructed by the tiles and no gap should be greater than 6 mm, i.e. a tolerance of + 3 mm.

560 LEVEL OF TILING ACROSS JOINTS

- Deviation (maximum) between tile surfaces either side of any type of joint:
 - 1 mm for joints less than 6 mm wide.
 - 2 mm for joints 6 mm or greater in width.

570 MORTAR BEDDING

- Bedding mix:
 - Cement: Portland to BS EN 197-1, type CEM I/42.5.
 - Sand for walls: To BS EN 13139.

Grading designation: 0/2 (CP or MP) category 2 fines.

- Sand for floors: To BS EN 13139.

Grading designation: 0/4 (MP) category 1 fines and between 20%-66% passing a 0.5 sieve.

- Batching: Select from:
 - Batch by weight.
 - Batch by volume: Permitted on the basis of previously established weight:volume relationships of the particular materials. Use accurate gauge boxes. Allow for bulking of damp sand.
- Mixing: Mix materials thoroughly to uniform consistence. Use a suitable forced action mechanical mixer. Do not use a free fall type mixer.
- Application: At normal temperatures use within two hours. Do not use after initial set. Do not retemper.

580 POROUS TILES

- Tiles to be bedded in cement:sand: Soak in clean water for at least 30 minutes. Fix as soon as surface water has drained.

650 ADHESIVE BED - NOTCHED TROWEL METHOD (WALLS)

- Application: By 3 mm floated coat of adhesive to dry background in areas of approximately 1 m². Comb surface.
- Tiling: Press tiles firmly onto float coat.

651 ADHESIVE BED - NOTCHED TROWEL AND BUTTERING METHOD (WALLS)

- Application: By floated coat of adhesive to dry background in areas of about 1 m². Comb surface.
- Tiling: Apply thin even coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles. Press tiles firmly onto float coat.
- Finished adhesive thickness: 3 mm or within the range allowed by the adhesive manufacturer.

652 ADHESIVE BED - BUTTERING METHOD (WALLS)

- Tiling: Apply even coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles.
- Finished adhesive thickness: 3 mm or within the range allowed by the adhesive manufacturer.

660 ADHESIVE BED - NOTCHED TROWEL METHOD FOR MESH BACKED MOSAIC (WALLS)

- Application: By 3 mm floated coat of adhesive to dry background. Comb surface.
- Placing mosaic sheets: Hang in horizontal rows, working downwards. Stagger vertical joints. Prevent slippage of sheets. Lightly beat mosaics into adhesive.

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- Width, plane and alignment of joints between sheets: To match joints between mosaic tiles.

661 ADHESIVE BED - NOTCHED TROWEL METHOD FOR PAPER FACED MOSAIC

(WALLS)

- Application: By 3 mm floated coat of adhesive to dry background. Comb surface.
 - Preparing mosaic sheets: Pre-grout. Remove surplus before fixing.
 - Placing mosaic sheets: Hang in horizontal rows, working downwards. Stagger vertical joints.
 - Width, plane and alignment of joints between sheets: To match joints between mosaic tiles.
 - Paper face: Before adhesive hardens completely, remove paper face. Complete grouting.
- Wash off glue from face of mosaic.

710 ADHESIVE BED - NOTCHED TROWEL AND BUTTERING METHOD (FLOORS)

- Application: Floated coat of adhesive to dry base and comb surface.
- Tiling: Apply coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles. Press tiles firmly onto float coat.

- Finished adhesive thickness: Within range allowed by manufacturer.

711 ADHESIVE BED - BUTTERING METHOD (FLOORS)

- Tiling: Apply even coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles.

- Finished adhesive thickness: Within the range allowed by the adhesive manufacturer.

720 CEMENT:SAND MORTAR BEDDING (FLOORS)

- Mortar bedding mix: 1:3-4 cement:sand.

- Consistency: Stiff plastic.

- Laying: Lay suitably small working areas of screeded bed. Compact thoroughly to level.

- Finished bed thickness:

For tiles up to 10 mm thick: 10-15 mm.

For tiles greater than 10 mm thick: 15-20 mm.

- Tiling: Within two hours and before bedding sets, evenly coat backs of tiles with adhesive.

Press tiles firmly into position.

- Finished adhesive thickness: Within range recommended by manufacturer.

MOVEMENT JOINTS/ GROUTING/ COMPLETION

815A SEALANT MOVEMENT JOINTS GENERALLY

- Joints: Extend through tiles and bedding to base/ background. Centre over joints in base/ background and refer to architects setting out drawings.

Colour: Ref to Finishes schedule.

- Preparation and application: As section Z22.

875 GROUTING

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

885 COLOURED GROUT

- Staining of tiles: Not permitted
- Evaluating risk of staining: Apply grout to a few tiles in a small trial area. If discoloration occurs apply a protective sealer to tiles and repeat trial.

M50 Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting

To be read with Preliminaries/ General conditions.

TYPES OF COVERING

110A READ IN CONJUNCTION WITH RED DEER DRAWINGS & SPECIFICATION

GENERAL REQUIREMENTS

210 WORKMANSHIP GENERALLY

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

330 COMMENCEMENT

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

340 CONDITIONING

- 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.
- 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

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

360 FLOORS WITH UNDERFLOOR HEATING

- Commencement of laying: Not before a period of 48 hours after heating has been turned off.
- Post laying start up of heating system: Slowly return heating to its operative temperature not less than 48 hours after completing laying.

PREPARING BASES

410 NEW BASES

- 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

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

440 SUBSTRATES TO RECEIVE THIN COVERINGS

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

460 SMOOTHING/ LEVELLING UNDERLAYMENT COMPOUND

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

520 TIMBER BOARDING/ STRIP FLOORING

- Substrate: Boards/ strips securely fixed and acceptably level with no protruding fasteners. Plane, sand or apply smoothing underlayment compound to give a smooth, even surface.

LAYING COVERINGS

610 SETTING OUT TILES

- Method: Set out from centre of area/ room, so that wherever possible:
 - Tiles along opposite edges are of equal size.
 - Edge tiles are more than 50% of full tile width.

620 COLOUR CONSISTENCY

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

640 ADHESIVE FIXING GENERALLY

- Adhesive type: As specified, as recommended by covering/ underlay, manufacturer or as approved.
- Primer: Type and usage as recommended by adhesive manufacturer.
- Application: As necessary to achieve good bond.

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- Finished surface: Free from trowel ridges, high spots caused by particles on the substrate, and other irregularities.

650 SEAMS

- Patterns: Matched.
- Joints: Tight without gaps.

670 BORDERS/ AND FEATURE STRIPS IN SHEET MATERIAL

- Curl: Not acceptable.
- Corners: Mitre joints.

680 SEAM WELDING COVERINGS

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

720 DOORWAYS

- Joint location: On centre line of door leaf.

760 STAIR COVERINGS - SEPARATE RISERS AND TREADS

- Fixing: Accurately cut. Fit risers before treads.

COMPLETION

820 FINISHING PLASTICS FLOORING

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

880 WASTE

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

M60 Painting/clear finishing

To be read with Preliminaries/General conditions.

COATING SYSTEMS

110A READ IN CONJUNCTION WITH RED DEER DRAWINGS & SPECIFICATION

GENERALLY

210 COATING MATERIALS

- Manufacturers: Obtain materials from any of the following:
Dulux or similar approved for carparking relining use proprietry lining paint suitable for application.
- Selected manufacturers: Submit names before commencement of coating work.

215 HANDLING AND STORAGE

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

220 COMPATIBILITY

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

280 PROTECTION

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

320 INSPECTION BY COATING MANUFACTURERS

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

PREPARATION

400 PREPARATION GENERALLY

- Standard: In accordance with BS 6150.
- Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and

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obtain approval before commencing work.

- Preparation materials: Types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
- Substrates: Sufficiently dry in depth to suit coating.
- Efflorescence salts: Remove.
- Dirt, grease and oil: Remove. Give notice if contamination of surfaces/ substrates has occurred.
- Surface irregularities: Remove.
- Joints, cracks, holes and other depressions: Fill flush with surface, to provide smooth finish.
- Dust, particles and residues from preparation: Remove and dispose of safely.
- Water based stoppers and fillers:
 - Apply before priming unless recommended otherwise by manufacturer.
 - If applied after priming: Patch prime.
- Oil based stoppers and fillers: Apply after priming.
- Doors, opening windows and other moving parts:
 - Ease, if necessary, before coating.
 - Prime resulting bare areas.

440 PREVIOUSLY COATED SURFACES GENERALLY

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

471 PREPRIMED WOOD

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

481 UNCOATED WOOD

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

500 PREPRIMED STEEL

- Areas of defective primer, corrosion and loose scale: Take back to bare metal. Reprime as soon as possible.

511 GALVANIZED, SHERARDIZED AND ELECTROPLATED STEEL

- White rust: Remove.
- Pretreatment: Apply one of the following:
 - 'T wash'/ mordant solution to blacken whole surface.
 - Etching primer recommended by coating system manufacturer.

580 UNCOATED PLASTER

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

590 UNCOATED PLASTERBOARD

- Depressions around fixings: Fill with stoppers/ fillers

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611 WALL COVERINGS

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

622 ORGANIC GROWTHS

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

APPLICATION

711 COATING GENERALLY

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

720 PRIMING JOINERY

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

730 WORKSHOP COATING OF CONCEALED JOINERY SURFACES

- General: Apply coatings to all surfaces of components.

751 STAINING WOOD

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

770 EXTERNAL DOORS

- Bottom edges: Prime and coat before hanging doors.

800 GLAZING

- Etched, sand blasted and ground glass: Treat or mask edges before coating to protect from contamination by oily constituents of coating materials.

M61 Intumescent coatings for fire protection of steelwork

To be read with Preliminaries/General conditions

PROTECTIVE COATING SYSTEMS

110A ON SITE INTUMESCENT COATING FOR METALWORK

Contractors proposal to be fit for purpose for the environment and conditions refer to architects/ structural engineers drawings for beam sizes/ positions
Submit method of application, if spraying proposed refer to architects to confirm if any areas require masking.

- Use/ location: semi exposed.
 - Fire resistance to BS 476-21: 90 minutes.
 - Preparation and priming: By steelwork contractor
 - Intumescent coating system:
 - Manufacturer: Nullifire or similar approved.
- Product reference: S605 or similar approved.
- Intumescent coat:

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Type: As above.

Finish: Visible areas: Normal decorative.

- Top sealer coat:

Type: As above.

Colour: White.

• Bolt head/ Nut protection: As main steelwork.

GENERAL REQUIREMENTS

205 VALIDATION OF MATERIALS

• Project specific evaluation of intumescent coating materials:

- Standard: In accordance with BS 8202-2, clause 4.

- Test results: Submit on request.

210 WORKING PROCEDURES

• Standard: In accordance with BS 8202-2.

• Give notice: Before commencing surface preparation and coating application.

• Quality control: Record project specific procedures for surface preparation and coating application.

215 WORKING CONDITIONS

• General: Maintain manufacturer's recommended temperature, humidity and air quality conditions during application and drying.

• Surface condition: Clean and dry at time of application.

220 APPLICATOR'S PERSONNEL

• Operatives: Trained/ experienced in anticorrosive and intumescent coatings.

• Evidence of training/ experience: Submit on request.

220A APPLICATOR

The system applicator and all on site applicators have to be FIRAS or similar approved Third Party accredited by UKAS.

• Operatives: Trained/ experienced in anticorrosive and intumescent coatings.

• Evidence of training/ experience: Submit prior to undertaking the works.

270 INSPECTION

• Permit intumescent manufacturer to:

- Inspect work in progress.

- Inspect quality control records.

- Take dry film thickness and other measurements.

- Take samples of products.

• Intumescent manufacturer's inspection reports: Submit without delay.

280 OFF SITE COATED STEEL

• Handling and erection: Use methods and devices designed to minimise damage to intumescent coatings.

• Damaged areas of coating: Reinstate in accordance with coating manufacturer's recommendations.

PREPARATION OF SURFACES

315 NEW STEEL - BLAST CLEANING

• Preparation: Remove oil, grease and contaminants.

• Blast cleaning:

- Atmospheric condition: Dry.

- Abrasive: Suitable type and size, free from fines, moisture and oil.

- Finish: To BS EN ISO 8501-1, preparation grade SA2½, with an average profile of approximately 75 micrometres.

- Abrasive residues and moisture: Remove.

• Primer: Apply as soon as possible after cleaning and before gingering or blackening appears.

320 EXISTING STEEL - BLAST CLEANING

• Preparation: Remove oil, grease and contaminants.

• Blast cleaning: Remove existing coatings and rust.

- Atmospheric condition: Dry.

- Abrasive: Suitable type and size, free from fines, moisture and oil.

- Finish: To BS EN ISO 8501-1, preparation grade SA2½, with an average profile of approximately 75 micrometres.

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- Abrasive residues and moisture: Remove.
 - Primer: Apply as soon as possible after cleaning and before gingering or blackening appears.
- 330 EXISTING STEEL - MANUAL CLEANING**
- Preparation: Remove oil, grease and contaminants.
 - Loose or unsound coatings: Remove to a firm edge.
 - Finish: To BS EN ISO 8501-1, preparation grade St2. Leave a clean but unpolished dry surface.
 - Primer: Apply as soon as possible after cleaning and before gingering or blackening appears. Remove coating edges that lift as a result of priming, and reprime.

340 EXISTING STEEL - OVERCOATING

- Preparation: Remove oil, grease and contaminants.
- Loose or unsound coatings: Remove to a firm edge.
- Exposed steel finish: Manually clean to BS EN ISO 8501-1, grade St2. Leave a clean but unpolished dry surface.
- Existing coatings finish: Abrade to give a good key. Leave a clean, dry surface.
- Primer: Apply one brush coat to bare steel areas. Remove coating edges that lift as a result of priming, and reprime.

APPLICATION OF CASTINGS

402 INTUMESCENT CASTING THICKNESS

- Required thickness: Determine for every steel member to give specified period of fire resistance. Use intumescent casting manufacturer's current published loading tables.
- Special sections and partial fire exposure conditions: Obtain required thickness in writing from manufacturer.
- Schedule and drawings: Submit at least two weeks before starting work.
- Schedule content: Member sizes, weights/ thicknesses, loading conditions, etc. showing, for each variant, the exposed perimeter/ sectional area (Hp/A) ratio and required casting thickness.
- Drawing content: Steelwork drawings marked in colour to show required thickness for each member.

404 INTUMESCENT CASTING INSTALLATION

- Assembly: Adhesive fix casting sections tight to steel substrate.
- Filling: Apply intumescent filler to all joints and deformations to produce a smooth and uniform finish.

APPLICATION OF COATINGS

410 INTUMESCENT COATING DRY FILM THICKNESS (DFT)

- Applicable coatings: Part of submitted proposals by contractor.
- Required dft: Determine for every steel member to give specified period of fire resistance. Use intumescent coating manufacturer's current published loading tables.
- Special sections and partial fire exposure conditions: Obtain required dft in writing from manufacturer.
- Schedule and drawings: Submit at least two weeks before starting work.
- Schedule content: Member sizes, weights/ thicknesses, loading conditions, etc. showing, for each variant, the exposed perimeter/ sectional area (Hp/A) ratio and required dft.
- Drawing content: Steelwork drawings marked in colour to show required dft for each member.

420 MEASUREMENT OF INTUMESCENT DFT

- Primer dft: Determine average dft (for deduction from total dft after application of intumescent).
- Intumescent dft: Determine at:
 - 500 mm centres along each coated plane of universal sections (8 planes), and rectangular hollow sections (4 planes).
 - 125 mm centres along coated circular hollow sections, spread evenly around circumference.
- Acceptance standard:
 - Average intumescent dft: Not less than required dft (exclusive of primer and top sealer).
 - Local intumescent dft: Not less than 80% of required dft. Areas greater than 100 mm equivalent diameter with a dft of less than 80% of required dft must be brought up to thickness.

440 BASIC FINISH

- Definition: Reasonably smooth and even. Orange peel, other texture, minor runs and similar minor defects are acceptable.

450 NORMAL DECORATIVE FINISH

- Definition: Good standard of cosmetic finish generally, when viewed from a distance of 5 m

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or more. Minor orange peel or other texture is acceptable.

460 HIGH DECORATIVE FINISH

- Definition: High standard of evenness, smoothness and gloss when viewed from a minimum distance of 2 m.

490 TOP SEALER COAT

- Application: To achieve dft recommended by manufacturer and to give an even, solid, opaque appearance, free from runs, sags and other visual defects.

520 COMPLETION OF OFF SITE COATED STEEL

- Uncovered areas, including fixings: Following erection of steelwork, apply intumescent coating locally.

- Unscheduled additional connections to erected steelwork: Remove and reinstate intumescent coating locally.

COMPLETION

530A RECORDS OF INTUMESCENT APPLICATION

- On completion of intumescent work, submit:

- Accurate surface preparation, coating and intumescent application records.

- Fire resistance certificates.

- Intumescent manufacturer's recommendations for maintenance and overcoating.

- Any other necessary documentation in line with the applicators third party accreditation (FIRAS).

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11.0 N Furniture / Equipment

N12 Commercial catering fittings, furnishings and equipment

NAMED PRODUCTS AND MATERIALS

- All components and materials are to be installed strictly in accordance with the manufacturer's recommendations.
- All finishes and materials are to have the Client's full approval.
- Any discrepancies between this specification and the drawings are to be brought to the attention of the Architect and the Contract Administrator.

PRODUCTS

310A FOOD PREPARATION KITCHENETTE AREAS

- FOR DETAILS OF KITCHEN AREAS REFER TO SPECIALIST & RED DEER DRAWINGS & SPECIFICATION • FOR DETAILS OF ALL FINISHES TO KITCHENETTE AREAS REFER TO RED DEER DRAWINGS & SPECIFICATION

EXECUTION

610 MOISTURE CONTENT OF WOOD AND WOOD BASED BOARDS

- Control and monitoring:
- Method statement: Submit.

620 INSTALLATION GENERALLY

- Fixing and fasteners: As section Z20.
- Services: As Engineering Services specification.

630 INSTALLING EQUIPMENT, UNITS, APPLIANCES AND WORKTOPS

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

640 SERVICES TO EQUIPMENT, UNITS AND APPLIANCES

- Connections: Provide to electric, gas, and hot and cold water services.

650 INSTALLING SINKS, TAPS, TRAPS AND WASTES

- Water supply: To BS EN 806-1, -2, -3, -4 and -5 and BS 8558.
- Taps:
- Fixing: Secure, watertight seal with the appliance.
- Positioning: Hot tap to left of cold tap as viewed by the user of the appliance.
- Wastes:
- Bedding: Waterproof jointing compound.
- Fixing: With resilient washer between appliance and backnut.

660 SEALANT BEDDING AND POINTING

- Application: As section Z22
- Bedding: Worktop kitchen equipment.
- Pointing: Between worktop splash backs and wall where required.

670 TRIMS

- Lengths: Unjointed between angles or ends of runs.
- Angle joints: Mitred.

COMPLETION

910 GENERAL

- Doors and drawers: Accurately aligned, not binding. Adjusted to ensure smooth operation.
- Ironmongery: Checked, adjusted and lubricated to ensure correct functioning.

920 EQUIPMENT, UNITS AND APPLIANCES

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- Test: Ensure that all functions and features work correctly.
- Documentation: Submit guarantees, instruction manuals, etc.

N13 Sanitary appliances and fittings

To be read with Preliminaries/ General conditions.

PRODUCTS

300A READ IN CONJUNCTION WITH RED DEER DRAWINGS & SPECIFICATION

375A WALK IN SHOWER UNITS / WET ROOMS

- - Manufacturer: ON THE LEVEL.

Product reference: SS BES1 Bespoke SuperSlim Former
at 1000 x 1200mm.

Pre-tanked in factory c/w 50mm shoulders for site trimming

Pre-Machined for SS800 SuperSlim Channel SS800

800mm SS Linear Channel c/w STW4R_V trapped gully

50l/m waterflow and 50mm water seal.

OTL0218LN OTL Linear Tanking Kit 8m2 to

be used with pre-tanked formers

OTL028 OTL Tanking Internal Corner .

EXECUTION

610 INSTALLATION GENERALLY

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

613 COMPATIBILITY OF COMPONENTS

- General: Each sanitary assembly must consist of functionally compatible components, preferably obtained from a single manufacturer.
- Exceptions: Water supply fittings, wastes and traps.

620 NOGGINGS AND BEARERS

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

630 TILED BACKGROUNDS OTHER THAN SPLASHBACKS

- Timing: Complete before fixing appliances.
- Fixing appliances: Do not overstress tiles.

650 INSTALLING WC PANS

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

670 INSTALLING CISTERNS

- Cistern operating components: Obtain from cistern manufacturer.
- Float operated valve: Matched to pressure of water supply.
- Overflow pipe: Fixed to falls and located to give visible warning of discharge.
- Location: Agreed, where not shown on drawings.

710 INSTALLING TAPS

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

720 INSTALLING WASTES AND OVERFLOWS

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

N14 General internal signage systems

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NAMED PRODUCTS AND MATERIALS

- All components and materials are to be installed strictly in accordance with the manufacturer's recommendations.
- All finishes and materials are to have the Client's full approval.
- Any discrepancies between this specification and the drawings are to be brought to the attention of the Architect and the Contract Administrator

To be read with Preliminaries/ General conditions.

GENERAL

SYSTEM PERFORMANCE

210 GENERAL REQUIREMENTS

- Signage system: Complete to BS 559, including facing information, components, inserts, accessories and fixings necessary to complete the system.
- Comply with the requirements which are to be determined.
- Geometric shapes, colours and layout: In accordance with BS 8501.
- Design standard for disabled people: In accordance with BS 8300.
- Proposals: Submit drawings, schedules, technical information, calculations and manufacturer's literature.

240 FIRE REACTION OF SIGNAGE SYSTEM

- Non flammable surface:
- Standard: To Building Regulations Approved Document B .

280 DESIGN LIFE

- Duration: 10 years .
- Subject to reasonable wear and tear.
- Condition of use: Subject to regular maintenance.

290 SIGNAGE SAMPLES

- Sign type: Signage system .
- Action: Submit labelled samples.
- Conformity: Retain samples on site for the duration of the contract or until instructed to remove.
- Delivered product: To conform with labelled samples.

295 SIGNAGE SAMPLES BOARD

- Samples board: Submit.
- Content: Selected labelled signs, showing methods of fixing.
- Conformity: Retain samples on site for the duration of the contract or until instructed to remove.
- Delivered product: To conform with labelled samples.

PRODUCTS

305 PRODUCTS GENERALLY

- Standard: To BS 559.

EXECUTION

610 FIXING SIGNS GENERALLY

- Installation: To BS 559.
- Secure, plumb and level.
- Strength of fasteners: Sufficient to support all live and dead loads.
- Fasteners and or adhesives: As section Z20.
- Fixings showing on surface of sign: Must not detract from the message being displayed.

620 FIXING SIGNS FOR THE VISUALLY IMPAIRED

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

670 ELECTRICAL AND DATA SERVICES

- Services connection required: To be determined .
- Standard: To BS 7671.
- Coordinate with services trades.

COMPLETION

910 DOCUMENTATION

- Submit:

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

920 SPARES

- Supply as follows:

- Type: To be determined .
- Quantity: To be determined .

930 SPECIALIST TOOLS

- Supply as follows: To be determined .

N15 Internal fire and safety signage systems

NAMED PRODUCTS AND MATERIALS

- All components and materials are to be installed strictly in accordance with the manufacturer's recommendations.
- All finishes and materials are to have the Client's full approval.
- Any discrepancies between this specification and the drawings are to be brought to the attention of the Architect and the Contract Administrator.

To be read with Preliminaries/ General Conditions.

GENERAL

110A FIRE AND SAFETY SIGNAGE SYSTEMS

- FIRE SAFETY SIGNAGE IS TO BE PROVIDED IN LINE WITH THE FIRE LRW PLANS AND FIRE STRATEGY DOCUMENT.

SYSTEM PERFORMANCE

205 DESIGN OF INTERNAL SIGNAGE SYSTEMS GENERALLY

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

220 SIGN DESIGN AND FORMAT

- Format: In accordance with BS EN ISO 7010.
- Geometric shapes, colours and layout: In accordance with BS ISO 3864-1.
- Design principles for graphical symbols: In accordance with BS ISO 3864-3.
- Colorimetric and photometric properties of safety sign materials: In accordance with BS ISO 3864-4.
- Water safety: In accordance with BS ISO 20712-1.

260 PHOTOLUMINESCENT PROPERTIES FOR ESCAPE ROUTE SIGNAGE

- Luminance decay classification to BS ISO 17398: A.

EXECUTION

610 FIXING SIGNS GENERALLY

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

COMPLETION

910 DOCUMENTATION

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

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12.0 P Building Fabric Sundries

P12 Fire stopping systems

NAMED PRODUCTS AND MATERIALS

- All components and materials are to be installed strictly in accordance with the manufacturer's recommendations.
- All finishes and materials are to have the Client's full approval.
- Any discrepancies between this specification and the drawings are to be brought to the attention of the Architect and the Contract Administrator.

To be read with Preliminaries/ General conditions.

GENERAL

100 FIRE STOPPING SYSTEMS TO BE INSTALLED BY A FIRAS OR OTHER THIRD PARTY ACCREDITED CONTRACTOR, REF TO LRW SERIES A(42) DRAWINGS AND REF TO M&E DETAILS, REPORT ANY CONFLICTS TO PROJECT MANAGER

110 FIRE STOPPING SYSTEM TO EXTERNAL WALLS

- Penetration seal/ Gap filler: Contractor's choice .

130 FIRE STOPPING SYSTEM TO INDIVIDUAL SERVICES PENETRATIONS within Fire Resisting walls

- Fire resistance: As drawings .
- Penetration seal: Submit proposals.
- Size: To match wall thickness.
- Capping sealant: Submit proposals.
- Colour: Submit proposals.

140 FIRE STOPPING SYSTEM TO MULTIPLE SERVICES PENETRATIONS within Fire Resisting walls

- Fire resistance: As drawings .
- Board barrier:
- Material: Submit proposals.
- Thickness: as manufacturers recommendations.
- Number of layers: as manufacturers recommendations.
- Framing: as manufacturers recommendations.
- Finish: Submit proposals.

- Capping sealant: Submit proposals.
- Colour: Submit proposals.

150 LOOSE FIRE STOPPING to Fire Resisting walls

- Fire resistance: As drawings.
- Penetration seal: Submit proposals.
- Size: submit proposals .

160 LINEAR GAP SEALING to fire resisting walls

- Fire resistance: As drawings A(42).
- Gap width or height (nominal): up to 25mm.
- Gap filler: Submit proposals.
- Capping sealant: Submit proposals.
- Colour: Submit proposals.

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SYSTEM PERFORMANCE

210 DESIGN

- Design: Complete the design of the fire stopping system.
- Proposals: Submit drawings, technical information, calculations and manufacturers' literature.

260 DESIGN LIFE

- Effective design life: 25 years.

PRODUCTS

305 PRODUCT CERTIFICATION

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

330 FIRE STOP LAMINATE

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.
- Strip width: Wider than joint width.

335 INTUMESCENT FOAM

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

338 INTUMESCENT MASTIC

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

345 INTUMESCENT PILLOWS

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.
- Composition: Sealed polyethylene bags containing graphite and vermiculite granules treated with fire activated chemicals.
- Integral reinforced eyelets: Required.
- Linking cable: Non-corrosive cotton-coated wire.

350 INTUMESCENT PUTTY

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

360 MINERAL WOOL RIGID BATTS

- Standard: To BS EN 13162.
- Manufacturer: Submit proposals.
- Product reference: Submit proposals.
- Recycled content: Submit proposals.

370 PIPE COLLAR - CONCEALED INTUMESCENT

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

380 PIPE COLLAR - SURFACE MOUNTED INTUMESCENT

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

385 SEALANT BACKING MATERIAL

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

390 SEALANT - FIRE RESISTING SILICONE

- Manufacturer: Submit proposals.
- Product reference: Submit proposals.

EXECUTION

620 WORKMANSHIP GENERALLY

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

650 INSTALLING FIRE STOP LAMINATE

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- Fitting of strips: Compress strips and fit into gap so that, as they decompress, the strips wedge themselves in the void.

- Shrink wrapping: Not applicable.

- Joints:

- Ends of strips: Fit intumescent 'end piece' at both ends of run of fire stop laminate.

- Joints between strips: Fit two intumescent 'end pieces' at each butt joint.

660 APPLYING INTUMESCENT FOAM

- New joints: Remove builder's debris, mortar droppings, grease, and other contaminants.

- Old joints: Clean and remove existing sealant from each joint.

- Priming: Lightly moisten substrate with water.

- Application: Fill joint to approximately half its depth, and allow foam to expand to face of joint.

- Trimming: Trim excess foam to give a neat, flush appearance.

680 INSTALLING INTUMESCENT PILLOWS

- Number of pillows (per m² of opening): Number necessary to achieve fire resistance.

- Orientation of bags: Perpendicular to plane of construction element containing opening.

690 APPLYING INTUMESCENT PUTTY

- Sequence: Install putty after services are permanently installed.

- Loose dust and combustible materials: Remove from the opening.

710 INSTALLING MINERAL WOOL BATTS

- Installing batts: Fit tight into void between the penetrating services and the surrounding construction to form a solid barrier.

- 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: as manufacturers system.

- Face of batts: Flush with the surface of wall, floor or soffit.

- Joints between batts: Close butt joints, seal with fire resisting sealant.

- Gaps between services and barrier: Seal with fire resisting sealant.

730 FIXING PIPE COLLARS

- Collar fixing: Submit proposals.

- Gap around collar: Submit proposals.

- Length of wraps: Not applicable.

745 APPLYING SEALANTS GENERALLY

- Application: As section Z22.

750 APPLYING CAPPING SEALANT

- Preparation: De-grease using cleaner recommended by sealant manufacturer.

- Priming: Primer recommended by sealant manufacturer.

- Depth of sealant: as determined by manufacturer.

- Temperature: Do not apply water based sealants when they could be damaged by frost.

COMPLETION

910 CLEANING

- Masking tapes: Remove.

- Cleaning: Clean off splashes and droppings. Wipe down finishes.

920 INSPECTION

- Notice for inspection (minimum): 5 working days.

P21 Door/ window ironmongery

To be read with Preliminaries/ General conditions.

PRE-TENDER

10A QUANTITIES AND LOCATIONS

- Quantities and locations of ironmongery are Ref to KONCEPT S(40) schedules .

- Fixing: As sections L10 and L20.

GENERAL

170 IRONMONGERY FOR FIRE DOORS

- Relevant products: Ironmongery fixed to, or morticed into, the component parts of a fire resisting door assembly.

- Compliance: Ironmongery included in successful tests to BS 476-22 or BS EN 1634-1 on

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door assemblies similar to those proposed.

- Certification: Submit evidence of successful testing by UKAS accredited laboratory .
- Melting point of components (except decorative non functional parts): 800°C minimum.

180 CATEGORY OF DUTY FOR DOOR IRONMONGERY

- Standard: To DD 171.
- Category of duty of doors: tbc .
- General: Durability of ironmongery components to be compatible with stated category of duty of each door leaf.
- Exclusions: Ironmongery with specific duty or 'category of use' defined elsewhere.

Documentation: Before placing orders with suppliers submit documentation showing product compliance with stated category of duty.

Platform Lift – Access Lifts Open Platform Lift

1 Key Information

Drive Mechanism Belt Drive

Lubrication Automatic

Rated Load 400kg

Speed 0.15 m/s

Travel 1140mm Floors 2

2 External Lift Shaft Footprint

Width 1300mm

Depth 1760mm

Pit Depth N/A

3 Cabin

Width 1100mm

Depth 1400mm

Height 1100mm

Control Panel Landing Pushes, Emergency Stop, Alarm

Handrail Yes (aluminium, on long side)

Push Button Control Hold to travel

Lighting Illumination on controls

Safety Underside safety pan

Internal Wall Glass panels

Internal Skirting Anodised Aluminium in RAL 9006 - White Aluminium

Flooring Black bobbled rubber

Number of Cabin Doors 1

Cabin Door Finish Glass panel

4 Doors

Aperture 900mm clear opening

Type Swing landing door

Door Frame 1100mm x 1100mm

Number of Doors 1 Fire Rating N/A

Glass (if applicable) Frameless glass upper landing door

Finishes RAL 9006 - White Aluminium

Door Operation Manual Landing Pushes Landing push buttons controls on wall on both levels

Locks Electrical and mechanical locking on all floors

5 Safety & Emergency

Emergency Brake Instantaneous safety gear

Anti Trap Anti trap device on the underside of the lift

Pit Prop Electromechanical pit prop

Emergency Stop On platform control panel

Overload Thermal overload on motor

Emergency Descent Emergency lowering controlled from top floor landing

Emergency Lighting On controls

Alarm External sounding alarm triggered when alarm button pushed on platform

Control System Microprocessor control with full fault memory provision

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6 Power Supply

Supply Single phase, 230V, 16A
Control Box Inset at top of lift
Starting Current 14 Ampere
Running Current 5 Ampere
Preparation Rotary Isolator Switch

7 Additional Information

Equipment meets EN81:41 and the Machinery Directive 06/42/CE

8 Warranty 12 months parts and labour

FIRE CURTAINS

Period of Fire Resistance: 90 minutes

Certification: Complete barrier assemblies are certified by an independent accredited certification body operating to ISO/IEC 17065:2012. Complete barrier assemblies are certified with an independent accredited certification body operating an accredited UKAS scheme for installation, commissioning and servicing.

Product Name and Model: FireMaster® A1 active fire curtain barrier assemblies

General description: An electrically operated FireMaster® A1 active fire curtain barrier assembly used to form a virtually continuous barrier as a fire separating element. FireMaster® A1 active fire curtain barrier assemblies comprise a woven steel and glass fabric wound on to a steel roller, powered by an internal 24V dc electric motor, enclosed within a 1.2 mm Stainless Steel box. Within the main curtain assembly there are two vision panels. A bottom bar is fitted to the bottom edge of the curtain providing tension to the curtain with sufficient weight for the curtain to 'fail-safe by gravity'. The 24V motor contains an electromagnetic brake to arrest motion of the curtain when in the open position. FireMaster® A1 active fire curtain barrier assemblies have been tested to the requirements of BS EN 14600:2005 for 'Durability of Self-Closing' (500 cycles on primary power and an additional 50 cycles using back-up power; closing speed of 0.08m/s). FireMaster® A1 active fire curtain barrier assemblies have been tested to the requirements of BS EN 1634-1:2014 for 'Fire Resistance' (120 minutes integrity). FireMaster® A1 active fire curtain barrier assemblies have been tested to the requirements of BS EN 1634-1:2014 for 'Radiant Heat Flux' (30 minutes).

Operation: FireMaster® A1 active fire curtain barrier assemblies commence movement upon initiation of alarm or power or system failure, and fully deploy to the fire operational position within the range of velocities of 0.06 m/s to 0.15 m/s using the unique VarioSpeed™ function. Operating speeds are site adjustable without altering the bottom bar mass. Speeds may be dictated by those authorities having jurisdiction for 'safety in use' according to the location, nature or function of each unit. In the event of a mains supply power failure, the curtain is retained in the open position for a pre-determined period (nominally 30 minutes), using battery back-up power. At the end of the period, the Barrier assembly will deploy.

Curtain Material: The main curtain fabric type is EFP™ A1, which is a stainless steel wire reinforced glass fabric fire barrier. It has an area weight of 665g/m2 -5% +10%. The curtain fabric offers dimensional stability and is non-combustible to BS EN 13501-1 + A1– Reaction to Fire. The fabric has passed testing to BS EN 1634-1, BS EN 1363-1, BS EN 1362-2 and BS EN 1634-3 (Fire/Smoke Resistance) The fabric has passed testing to BS EN ISO 1716 (Determination of the Heat of Combustion for Building Products) The fabric has passed testing to BS EN 13823 (Reaction to Fire Tests – Single Burning Item) The fabric has passed testing to BS 6853 (Methods for measuring smoke density) The fabric has passed testing to HSG 248 (Analysis of Material for the presence of Asbestos) The fabric has passed testing to BS EN 14184-1 (Textiles – Determination of Formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction method) The fabric has a Classification of Reaction to Fire Performance in accordance with EN 13501-1:2007 +A1:2009 of 'A1'

Warranty: The manufacturer shall submit a written warranty for a period of one (1) year. If any part of the works of this section, including design, fabrication or installation are sublet to any party, such party shall provide a collateral warranty equivalent to the warranty

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13.0 Z Building Fabric Reference Specification

Z10 Purpose made joinery

To be read with Preliminaries/ General conditions.

110 FABRICATION

- Standard: To BS 1186-2.
- Sections: Accurate in profile and length, and free from twist and bowing. Formed out of solid unless shown otherwise.
- Machined surfaces: Smooth and free from tearing, wooliness, chip bruising and other machining defects.
- Joints: Tight and close fitting.
- Assembled components: Rigid. Free from distortion.
- Screws: Provide pilot holes.
- Screws of 8 gauge (4 mm diameter) or more and screws into hardwood: Provide clearance holes.
- Countersink screws: Heads sunk at least 2 mm below surfaces visible in completed work.
- Adhesives: Compatible with wood preservatives applied and end uses of timber.

120 CROSS SECTION DIMENSIONS OF TIMBER

- General: Dimensions on drawings are finished sizes.
- Maximum permitted deviations from finished sizes:
- Softwood sections: To BS EN 1313-1:-
Clause 6 for sawn sections.
- Hardwood sections: To BS EN 1313-2:-
Clause 6 for sawn sections.
- Clause NA.3 for further processed sections.

130 PRESERVATIVE TREATED WOOD

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

140 MOISTURE CONTENT

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

210 LAMINATED PLASTICS VENEERED BOARDS/ PANELS

- Fabrication: To British Laminated Plastics Fabricators Association Ltd (BLF) fabricating standards.
- Balancing veneer: From decorative veneer manufacturer and of similar composition.
- Applied to reverse side of core material.
- Finished components: Free from defects, including bow, twist, scratches, chipping, cracks, pimpling, indentations, glue marks, staining and variations in colour and pattern.
- Joints visible in completed work: Tight butted, true and flush.

220 WOOD VENEERED BOARDS/ PANELS

- Core material and veneers: Conditioned before bonding.
- Setting out: Veneer features and grain pattern aligned regularly and symmetrically unless

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instructed otherwise.

- Balancing veneer: Applied to reverse side of core material.
- Moisture and temperature movement characteristics: As facing veneer.
- Veneer edges: Tight butted and flush, with no gaps.
- Tolerance of veneer thickness (maximum): ± 0.5 mm.
- Finished components: Free from defects, including bow, twist, scratches, chipping, splits, blebs, indentations, glue marks and staining.
- Surface finish: Fine, smooth, free from sanding marks.

250 FINISHING

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

Z11 Purpose made metalwork

To be read with Preliminaries/ General conditions.

310 MATERIALS GENERALLY

- Grades of metals, section dimensions and properties: To appropriate British Standards. When not specified, select grades and sections appropriate for the purpose.
- Prefinished metal: May be used if methods of fabrication do not damage or alter appearance of finish, and finish is adequately protected.
- Fasteners: To appropriate British Standards and, unless specified otherwise, of same metal as component being fastened, with matching coating or finish.

320 STEEL LONG AND FLAT PRODUCTS

- Hot rolled structural steels (excluding structural hollow sections and tubes): To BS EN10025-1.
- Fine grain steels, including special steels: To BS EN 10025-3 and -4.
- Steels with improved atmospheric corrosion resistance: To BS EN 10025-5.

330 STEEL PLATE, SHEET AND STRIP

- Plates and wide flats, high yield strength steel: To BS EN 10025-6.

340 HOT ROLLED STEEL PLATE, SHEET AND STRIP

- Flat products, high yield strength for cold forming: To BS EN 10149-1, -2 and -3.
- Carbon steel sheet and strip for cold forming: To BS EN 10111.
- Narrow strip, formable steel and steel for general engineering purposes: To BS 1449-1.8 and BS 1449-1.14.

350 COLD ROLLED STEEL PLATE, SHEET AND STRIP

- Steel sections: To BS EN 10162.
- Flat products, high yield strength micro-alloyed steels for cold forming: To BS EN 10268.
- Carbon steel flat products for cold forming: To BS EN 10130 and BS EN 10131.
- Uncoated carbon steel narrow strip for cold forming: To BS EN 10139 and BS EN 10140.
- Narrow strip steel for general engineering purposes: To BS EN 10132-1, -2, and -3.
- Carbon steel flat products for vitreous enamelling: To BS EN 10209.

360 COATED STEEL FLAT PRODUCTS

- Hot dip zinc coated carbon steel sheet and strip for cold forming: To BS EN 10346 and BS EN 10143.
- Hot dip zinc coated structural steel sheet and strip: To BS EN 10143 and BS EN 10346.
- Hot dip zinc-aluminium (za) coated sheet and strip: To BS EN 10346.
- Hot dip aluminium-zinc (az) coated sheet and strip: To BS EN 10346.
- Organic coated flat products: To BS EN 10169.

370 STEEL STRUCTURAL HOLLOW SECTIONS (SHS)

- Non alloy and fine grain steels, hot finished: To BS EN 10210-1 and -2.
- Non-alloy and fine grain steels, cold formed welded: To BS EN 10219-2.
- Weather resistant steels, hot finished: To BS 7668.

380 OTHER STEEL SECTIONS

- Equal flange tees: To BS EN 10055.
- Equal and unequal angles: To BS EN 10056-1 and -2.
- Wire, carbon steel for general engineering purposes: To BS 1052.

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- Wire and wire products, general: To BS EN 10218-2.
- Tubes:
 - Seamless circular: To BS EN 10297-1.
 - Seamless cold drawn: To BS EN 10305-1.
 - Welded and cold sized square and rectangular: To BS EN 10305-5.
 - Welded circular: To BS EN 10296-1.
 - Welded cold drawn: To BS EN 10305-2.
 - Welded cold sized: To BS EN 10305-3.

400 STAINLESS STEEL PRODUCTS

- Chemical composition and physical properties: To BS EN 10088-1.
- Sheet, strip and plate: To BS EN 10088-2.
- Semi-finished products bars, rods and sections: To BS EN 10088-3.
- Wire: To BS EN 1088-3.
- Tubes:
 - Welded circular: To BS EN 10296-2.
 - Seamless circular: To BS EN 10297-2.

410 ALUMINIUM ALLOY PRODUCTS

- Designations:
 - Designation system, chemical composition and forms: To BS EN 573-1, -2, -3 and -5.
 - Temper designations: To BS EN 515.
- Sheet, strip and plate: To BS EN 485-1 to -4.
- Cold drawn rods, bars and tubes: To BS EN 754-1 and -2.
- Extruded rods, bars, tubes and profiles: To BS EN 755-1 and -2.
- Drawn wire: To BS EN 1301-1, -2 and -3.
- Rivet, bolt and screw stock: To BS 1473.
- Structural sections: To BS 1161.

420 COPPER ALLOY PRODUCTS

- Sheet, strip, plate and circles for general purposes: To BS EN 1652.
- Sheet and strip for building purposes: To BS EN 1172.
- Rods: To BS EN 12163.
- Profiles and rectangular bars: To BS EN 12167.
- Wire: To BS EN 12166.
- Tubes: To BS EN 12449.

FABRICATION

515 FABRICATION GENERALLY

- Contact between dissimilar metals in components: Avoid.
- Finished components: Rigid and free from distortion, cracks, burrs and sharp arrises.
- Moving parts: Free moving without binding.
- Corner junctions of identical sections: Mitre.

520 COLD FORMED WORK

- Profiles: Accurate, with straight arrises.

525 ADHESIVE BONDING

- Preparation of surfaces of metals to receive adhesives:
 - Degrease.
 - Abrade mechanically or chemically etch.
 - Prime: To suit adhesive.
- Adhesive bond: Form under pressure.

527 WELDING GENERALLY.

- Welding procedures:
 - Method and standard: TIG or MIG welding to BS EN 1011-4.
 - Welding Procedure Specification (WPS): Not required.
- Preparation:
 - Joint preparation: Clean thoroughly.
 - Surfaces of materials that will be self-finished and visible in the completed work: protect from weld splatter.

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• Jointing:

- Joints: Fully bond parent and filler metal throughout with no inclusions, holes, porosity or cracks.
- Dissimilar metals: Filler metal grade to be approved by a qualified metallurgist.
- Strength requirements: Welds to achieve design loads.
- Heat straightening: Obtain approval.
- Complex assemblies: Agree priority for welding members to minimize distortion caused by subsequent welds.
- Tack welds: Use only for temporary attachment.
- Jigs: Provide to support and restrain members during welding.
- Filler plates: Not permitted.
- Lap joints: Minimum 5 x metal thickness or 25 mm, whichever is greater.
- Weld terminations: Clean and sound.

530 STAINLESS STEEL FABRICATION

- Guillotining or punching: Do not use for metal thicknesses greater than 10 mm.
- Thermal cutting:
- Carbonation in the heat affected zone: Remove, after cutting.

• Bending:

- Plates or bars: Cold bending radius not less than material thickness.
- Tubes: Cold bending radius not less than 2 x tube diameter.
- Welding: In addition to general welding requirements:
- Protect adjacent surfaces from weld spatter.
- Pickle all welds before post fabrication treatments.
- Protection: Provide protection to fabricated components during transit and on site.

555 BRAZING

- Standard: To BS EN 14324.
- Testing:
- Destructive testing: To BS EN 12797.
- Nondestructive testing: To BS EN 12799.

FINISHING

710 FINISHING WELDED AND BRAZED JOINTS VISIBLE IN COMPLETE WORK

- Standard: To BS EN ISO 8501-3.
- Preparation grade: P1.
- Butt joints: Smooth, and flush with adjacent surfaces.
- Fillet joints: Neat.
- Grinding: Grind smooth where indicated on drawings.

745 PREPARATION FOR APPLICATION OF COATINGS

- General: Complete fabrication, and drill fixing holes before applying coatings.
- Paint, grease, flux, rust, burrs and sharp arrises: Remove.

750 LIQUID ORGANIC COATING FOR ALUMINIUM ALLOY COMPONENTS

- Standard: To BS 4842.

760 ZINC AND CADMIUM PLATING OF IRON AND STEEL SURFACES

- Zinc plating: To BS EN ISO 2081.
- Cadmium plating: To BS EN ISO 2082.

780 GALVANIZING

- Standard: To BS EN ISO 1461.
- Preparation:
- Vent and drain holes: Provide in accordance with BS EN ISO 14713-1 and -2. Seal after sections have been drained and cooled.
- Components subjected to cold working stresses: Heat treat to relieve stresses before galvanizing.
- Welding slag: Remove.
- Component cleaning: To BS EN ISO 8501-3.
- Grade: ..

COMPLETION

910 DOCUMENTATION

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• Submit:

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

920 COMPLETION

- Protection: Remove.
- Cleaning and maintenance: Carry out in accordance with procedures detailed in fabricators' guarantees.

Z20 Fixings and adhesives

To be read with Preliminaries/ General conditions.

PRODUCTS

310 FASTENERS GENERALLY

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

320 PACKINGS

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

330 NAILED TIMBER FASTENERS

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

340 MASONRY FIXINGS

- Light duty: Plugs and screws.
- Heavy duty: Expansion anchors or chemical anchors.

350 PLUGS

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

360 ANCHORS

- Types:
 - Expansion: For use in substrate strong enough to resist forces generated by expansion of anchor.
 - Adhesive or chemical:

For use in substrate where expansion of anchor would fracture substrate.

For use in irregular substrate where expansion anchors cannot transfer load on anchor.

- Cavity: For use where the anchor is retained by toggles of the plug locking onto the inside face of the cavity.

370 WOOD SCREWS

- Type:
 - Wood screws (traditional pattern).
- Standard: To BS 1210.
- Wood screws.

Pattern: Parallel, fully threaded shank or twin thread types.

- Washers and screw cups: Where required are to be of same material as screw.

380 MISCELLANEOUS SCREWS

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

390 ADHESIVES GENERALLY

- Standards:
 - Hot-setting phenolic and aminoplastic: To BS 1203.
 - Thermosetting wood adhesives: To BS EN 12765.
 - Thermoplastic adhesives: To BS EN 204.

410 POWDER ACTUATED FIXING SYSTEMS

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

EXECUTION

610 FIXING GENERALLY

- 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.
- Components, substrates, fixings and fasteners of dissimilar metals: Isolate with washers/sleeves to avoid bimetallic corrosion.
- Appearance: Fixings to be in straight lines at regular centres.

620 FIXING THROUGH FINISHES

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

630 FIXING PACKINGS

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

640 FIXING CRAMPS

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

650 NAILED TIMBER FIXING

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

660 SCREW FIXING

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

670 PELLETED COUNTERSUNK SCREW FIXING

- Finished level of countersunk screw heads: Minimum 6 mm below timber surface.
- Pellets: Cut from matching timber, match grain and glue in to full depth of hole.
- Finished level of pellets: Flush with surface.

680 PLUGGED COUNTERSUNK SCREW FIXING

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

690 USING POWDER ACTUATED FIXING SYSTEMS

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

700 APPLYING ADHESIVES

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

Z21 Mortars

To be read with Preliminaries/ General conditions.

CEMENT GAUGED MORTARS

110 CEMENT GAUGED MORTAR MIXES

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

120 SAND FOR SITE MADE CEMENT GAUGED MASONRY MORTARS

- Standard: To BS EN 13139.
- Grading: 0/2 (FP or MP).

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- Fines content where the proportion of sand in a mortar mix is specified as a range (e.g. 1:1: 5-6):
Lower proportion of sand: Use category 3 fines.
Higher proportion of sand: Use category 2 fines.
- Sand for facework mortar: Maintain consistent colour and texture. Obtain from one source.
- 131 READY-MIXED LIME:SAND FOR CEMENT GAUGED MASONRY MORTARS**
- Standard: To BS EN 998-2.
- Lime: Nonhydraulic to BS EN 459-1.
- Type: CL 90S.
- Pigments for coloured mortars: To BS EN 12878.
- 135 SITE MADE LIME:SAND FOR CEMENT GAUGED MASONRY MORTARS**
- Permitted use: Where a special colour is not required and in lieu of factory made ready mixed material.
- Lime: Nonhydraulic to BS EN 459-1.
- Type: CL 90S.
- Mixing: Thoroughly mix lime with sand, in the dry state. Add water and mix again. Allow to stand, without drying out, for at least 16 hours before using.
- 160 CEMENTS FOR MORTARS**
- Cement: To BS EN 197-1 and CE marked.
- Types: Portland cement, CEM I.
Portland limestone cement, CEM II/A-L or CEM II/A-LL.
Portland slag cement, CEM II/B-S.
Portland fly ash cement, CEM II/B-V.
- Strength class: 32.5, 42.5 or 52.5.
- White cement: To BS EN 197-1 and CE marked.
- Type: Portland cement, CEM I.
- Strength class: 52.5.
- Sulfate resisting Portland cement:
- Type: To BS EN 197-1 Sulfate resisting Portland cement, CEM I/SR and CE marked.
- To BS EN 197-1 fly ash cement, CEM II/B-V and CE marked.
- Strength class: 32.5, 42.5 or 52.5.
- Masonry cement: To BS EN 413-1 and CE marked.
- Class: MC 12.5.
- 180 ADMIXTURES FOR SITE MADE CEMENT GAUGED MORTARS**
- Air entraining (plasticizing) admixtures: To BS EN 934-3 and compatible with other mortar constituents.
- Other admixtures: Submit proposals.
- Prohibited admixtures: Calcium chloride, ethylene glycol and any admixture containing calcium chloride.
- 190 RETARDED READY TO USE CEMENT GAUGED MORTAR**
- Standard: To BS EN 998-2.
- Lime for cement:lime:sand mortars: Nonhydraulic to BS EN 459-1.
- Type: CL 90S.
- Pigments for coloured mortars: To BS EN 12878.
- Time and temperature limitations: Use within limits prescribed by mortar manufacturer.
- Retempering: Restore workability with water only within prescribed time limits.
- 200 STORAGE OF CEMENT GAUGED MORTAR MATERIALS**
- Sands and aggregates: Keep different types/ grades in separate stockpiles on hard, clean, free-draining bases.
- Factory made ready-mixed lime:sand/ ready to use retarded mortars: Keep in covered containers to prevent drying out or wetting.
- Bagged cement/ hydrated lime: Store off the ground in dry conditions.
- 210 MAKING CEMENT GAUGED MORTARS**
- Batching: By volume. Use clean and accurate gauge boxes or buckets.

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- Mix proportions: Based on dry sand. Allow for bulking of damp sand.
- Mixing: Mix materials thoroughly to uniform consistency, free from lumps.
- Mortars containing air entraining admixtures: Mix mechanically. Do not overmix.
- Working time (maximum): Two hours at normal temperatures.
- Contamination: Prevent intermixing with other materials.

Z22 Sealants

To be read with Preliminaries/General conditions.

PRODUCTS

310 JOINTS GENERALLY

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

EXECUTION

610 SUITABILITY OF JOINTS

- Presealing checks:
 - Joint dimensions: Within limits specified for the sealant.
 - Substrate quality: Surfaces regular, undamaged and stable.
- Joints not fit to receive sealant: Submit proposals for rectification.

620 PREPARING JOINTS

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

630 APPLYING SEALANTS

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

Z31 Powder coatings

To be read with Preliminaries/ General conditions.

120 POWDER COATING MATERIALS

- Manufacturer: Obtain from one only of the following: Contractors choice.
- Selected manufacturer: Submit details before commencement of powder coating including:
 - Name and contact details.
 - Details of accreditation schemes.
 - Technical data of product including current Agrément certificates.

210 WORKING PROCEDURES

- Comply with the follow following standards.
 - Aluminium components: To BS 6496 or BS EN 12206-1.
 - Steel components: To BS EN 13438.
 - Safety standards: To British Coatings Federation 'Code of safe practice: Powder coating. Application of coating powders by electrostatic spraying'.
 - Health and safety guidance: Health and Safety Executive 'Reducing risk associated with using coating powders - employers' web page.

220 POWDER COATING APPLICATORS

- Applicator requirements:
 - Approved by powder coating manufacturer.
 - Currently certified to BS EN ISO 9001.

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- Comply with quality procedures, guarantee conditions, standards and tests required by powder coating manufacturer.

- Selected applicator: Submit details before commencement of powder coating including: Name and contact details.

Details of accreditation schemes.

225 GUARANTEES

- Powder coating manufacturer and applicator guarantees:
- Submit sample copies before commencement of powder coating.
- Submit signed project specific copies on completion of work.

230 CONTROL SAMPLES

- Sequence: Prior to ordering materials for the works, obtain approval of appearance for:

- Powder coated samples: Of various grades and forms of background metal to be used, showing any colour, texture and gloss variation.

- Fabrication samples: Showing joint assembly, how powder coating is affected and how any cut metal edges are finished and protected.

- Where manual application is required, controlled samples should be coated and inspected for colour and gloss stability.

- Samples to include the following information:

- Product reference.

- Colour.

- Reference number.

- Name.

- Gloss level.

250 COMPONENT DESIGN

- Condition of components to be powder coated:

- To comply with relevant recommendations of BS 4479-1, -3, and -4.

- Of suitable size to fit plant capacity.

- Of suitable thickness to withstand oven curing.

310 PRETREATMENT OF ALUMINIUM COMPONENTS

- Condition of components to be pretreated:

- Free from corrosion and damage.

- All welding and jointing completed and finish off as specified.

- Free from impurities including soil, grease and oil.

- Suitable for and compatible with the pretreatment process.

- Conversion coating requirements:

- Chromate system: To BS 6496 or BS EN 12206-1.

- Chromate-free system: To BS EN 12206-1. Submit details before using.

- Rinsing requirements: Use demineralized water. Drain and dry.

320 PRETREATMENT OF STEEL COMPONENTS

- Condition of components to be pretreated:

- Free from corrosion and damage.

- All welding and jointing completed and finish off as specified.

- Free from impurities including soil, grease and oil.

- Suitable for and compatible with the pretreatment process.

- Conversion coating requirements: To BS EN 13438.

- Rinsing requirements: Use demineralized water. Drain and dry.

330 PRETREATMENT FOR PROTECTION IN AGGRESSIVE ENVIRONMENTS

- Minimum thickness of 60 microns across significant and/ or primary surfaces.

- Minimum thickness of 25 microns on non-significant and/ or secondary faces ensuring a coherent film layer.

- All cut edges, drilled holes and mitres to be fully sealed.

- Cleaning and maintenance: Carried out once every three to twelve months (dependent on proximity to pollutant).

430 EXTENT OF POWDER COATINGS

- Application: To visible component surfaces, and concealed surfaces requiring protection.

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Coated surfaces will be deemed 'significant surfaces' for relevant BS 6496 or BS EN 13438 performance requirements.

435 APPLICATION OF POWDER COATINGS

- Surfaces to receive powder coatings: Free from dust or powder deposits.
- Powder colours: Obtain from one batch of one manufacturer.
- Commencement of powder coating: To be continuous from pretreatment.
- Components to be installed on site in order of application.
- Jig points: Not visible on coated components.
- Curing: Controlled to attain metal temperatures and hold periods recommended by powder coating manufacturer.
- Stripping and recoating of components: Only acceptable by prior agreement of powder coating manufacturer. Stripping, pretreatment and powder coating are to be in accordance with manufacturer's requirements.
- Overcoating of components: Not acceptable.

440 PERFORMANCE AND APPEARANCE OF POWDER COATINGS

- For aluminium components:
 - Standard: To BS 6496 or BS EN 12206-1.
- For steel components:
 - Standard: To BS EN 13438.
- Visual inspection after powder coating: Significant surface viewing distances to be as specified in the relevant Standard, unless specified otherwise.
- Colour and gloss levels: To conform with approved samples.

450 ALUMINIUM ALLOY FABRICATIONS

- Units may be assembled:
 - Before powder coating.
 - From components powder coated after cutting to size.
 - Where approved, from components powder coated before cutting to size.
- Exposure of uncoated background metal: Not acceptable.
- Assembly sealants: Compatible with powder coatings. Obtain approval of colour if sealants are visible after fabrication.

460 STEEL FABRICATIONS

- Unit assembly: Wherever practical, before powder coating.
- Exposure of uncoated background metal: Not acceptable.
- Assembly sealants: Compatible with powder coatings. Obtain approval of colour if sealants are visible after fabrication.

470 FIXINGS

- Exposed metal fixings: Powder coat together with components, or coat with matching repair paint system applied in accordance with the powder coating manufacturer's recommendations.

480 DAMAGED COMPONENTS - REPAIR OR REPLACEMENT

- Before delivery to site: Check all components for damage to powder coatings. Replace damaged components.
- Site damage: Submit proposals for repair or replacement.

510 PROTECTION

- Powder coated surfaces of components: Protect from damage during handling and installation, or by subsequent site operations.
- Protective coverings must be:
 - Resistant to weather conditions.
 - Partially removable to suit building in and access to fixing points.
- Protective tapes in contact with powder coatings must be:
 - Low tack, self adhesive and light in colour.
 - Applied and removed in accordance with tape and powder coating manufacturers' recommendations. Do not use solvents to remove residues as these are detrimental to the coating.
- Inspection of protection: Carry out monthly. Promptly repair any deterioration or deficiency.

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520 PROTECTION IN HAZARDOUS LOCATIONS

- Minimum thickness of 60 microns across significant and/ or primary surfaces.
- Minimum thickness of 25 microns on non-significant and/ or secondary faces ensuring a coherent film layer.
- All cut edges, drilled holes and mitres to be fully sealed.
- Cleaning: Carried out once every three to twelve months (dependent on proximity to pollutant).

535 DOCUMENTATION

- Submit the following information for each batch of powder coated components:
 - Supplier.
 - Trade name.
 - Colour.
 - Type of powder.
 - Method of application.
 - Batch and reference number.
 - Statutory requirements.
 - Test certificates.
 - Maintenance instructions.

540 COMPLETION

- Protection: Remove any protective coverings.
- Cleaning and maintenance of powder coatings: Carry out in accordance with procedures detailed in powder coating manufacturer and applicator guarantees.