OTH-TYL-TH-ZZ-SPE-Y-0002

NBS of Manchester Town Hall Kitchens 5870_Taylor Design Architects_ RevT1

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This document includes:

Code	Section	Revision	Dated
K10	Plasterboard dry linings/ partitions/ ceilings		
K40	Demountable suspended ceilings		
M50	Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting		
M60	Painting/clear finishing		
N10	General fixtures/ furnishings/ equipment		
N12	Commercial catering fittings, furnishings and equipment		

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K
Linings/Sheathing/Dry partitioning

K10
Plasterboard dry linings/ partitions/ ceilings

K10 Plasterboard dry linings/ partitions/ ceilings

To be read with Preliminaries/ General conditions.

TYPES OF DRY LINING

115 METAL STUD PARTITION SYSTEM INTERNAL PARTITION TYPE A

- Partition type: TYPE A - 92mm metal C studs.
- Partition height: 4600mm max.
- Head condition: Full height fixing to underside of soffit.
  - Deflection allowance: 15mm maximum.
- Structural performance:
  - Strength grade to BS 5234-2: Heavy.
    Additional tests: Not required.
  - Air pressure and deflection: Air pressure (maximum) 200 N/m² and deflection (maximum) height ÷ 240 mm.
  - Other requirements: N/A.
- Fire resistance of complete partition assembly: Not required.
- Airborne sound insulation
  - Laboratory measurement of complete partition assembly:
  - Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: Not required.
- Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance.
- Insulation: Not required.
  - Recycled content: None.
  - Thickness: refer to drawings.
- Resilient layer: N/A.
- Linings: 1no. layer 18mm marine plywood.
- Finishing: Seamless jointing ready for stainless steel facing.
  - Primer/ Sealer: Not required.
  - Accessories: N/A.
- Other requirements: Contractor to ensure all metal studs are fixed at head and base to manufacturer's details. Allow for additional horizontal channels to stiffen stud frame where required.

116 METAL STUD PARTITION SYSTEM INTERNAL PARTITION TYPE C

- Partition type: TYPE C - 92mm metal C studs.
- Partition height: 1500mm.
- Head condition: N/A.
  - Deflection allowance: N/A.
- Structural performance:
  - Strength grade to BS 5234-2: Heavy.
    Additional tests: Not required.
  - Air pressure and deflection: Air pressure (maximum) 200 N/m² and deflection (maximum) height ÷ 240 mm.
  - Other requirements: N/A.
- Fire resistance of complete partition assembly: Not required.
- Airborne sound insulation
  - Laboratory measurement of complete partition assembly:
  - Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: Not required.
- Metal framing: Type recommended by board manufacturer to complete the partition assembly and achieve specified performance.
- Insulation: Not required.
  - Recycled content: None.
  - Thickness: As indicated on drawings .
- Resilient layer: N/A.
- Linings: 1no. layer 18mm marine plywood .
- Finishing: Seamless jointing ready for stainless steel facing .
  - Primer/ Sealer: N/A.
  - Accessories: N/A.
- Other requirements: Contractor to ensure all metal studs are fixed at head and base to manufacturer's details. Allow for additional horizontal channels to stiffen stud frame where required.

222 PROPRIETARY SUSPENDED CEILING SYSTEM DESIGN INTENT SPEC ONLT - INSTALL BY BASE TEAM

- Manufacturer: British Gypsum.
  - Product reference: Gyproc Casoline MF.
- Lining board: 12.5mm thick moisture resistant plasterboard.
  - Finishing: Seamless jointing.
  - Accessories: Metal beads/ stops recommended by lining board manufacturer.
- Suspension system:
  - Grid centres: Primary grid MF7 centres 1200mm; Secondary grid MF5 centres 450mm.
  - Hangers: Type recommended by board manufacturer. Strap hangers or angle section.
    Length: To suit ceiling heights as indicated on Architects drawings.
    Centres: To manufacturers recommendations.
    Top fixing: To suit structural soffit of site inspection required.
- Insulation: Not required.
  - Thickness: Not applicable.
- Access units: Required as per clause 431.
- Integrated services fittings: Light fittings, air conditioning equipment, diffusers and grilles, slots for window blinds, etc. To be confirmed by M & E consultant.
- Accessories/ Other requirements: Ensure adequate provision for weight of M & E services. Specialist shadow feature to junctions of plasterboard wall and ceiling finishes in Showroom as to Architects detail and Section P20 .

GENERAL/ PREPARATION

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.

395 CONTROL SAMPLES
- General: Complete areas of finished work and obtain approval of appearance before proceeding.
- Type of dry lining: All types.
  - Location/ Size: Submit proposals.

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.

465 STAGGERED STUD PARTITIONS
- Horizontal frame members (noggins, bearers, etc.) and boards: Fix between alternate studs and not touching adjacent offset studs.

475 METAL FURRINGS FOR WALL LININGS
- Setting out: Accurately aligned and plumb.
  - Vertical furring positions: Equal vertical centres to suit specified linings, maintaining sequence across openings. Position adjacent to angles and openings.
  - Additional vertical furrings: To support vertical edges of boards and at junctions with partitions.
  - Horizontal furring positions: To provide continuous support to edges of boards.
- Adhesive bedding to furrings:
  - Dabs: Length 200 mm (minimum). Located at ends of furrings and thereafter at 450 mm (maximum) centres.
  - Junctions with partitions: Continuous bed with no gaps across cavity.

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: Wire reinforced mineral wool 50 mm (minimum) thick.
  - 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.

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.
  - Two layer boarding: Support edges of outer layer.

595 DEFLECTION HEADS

- Fixing boards: Do not fix to head channels.

K40
Demountable suspended ceilings

K40 Demountable suspended ceilings

To be read with Preliminaries/General conditions.

TYPES OF CEILING SYSTEM

120 METAL UNIT SUSPENDED CEILING SYSTEM DESIGN INTENT ONLY - BASE BUILD DESIGN AND INSTALLATION

- Ceiling system manufacturer: Armstrong.
  - Product reference: Spring T metal clip-in system.
- Ceiling:
  - Infill units: 9300MAB Metal T-Clip F Metal Clip-In Bioguard unperforated tiles in White RAL 9010..
  - Ceiling module: 600 x 600mm.
  - Soffit height above finished floor level: As stated on Architects drawings.
- Grid:
  - Form: 600 x 600mm Spring T metal clip-in system.
  - Exposure: Concealed.
- Access: Clip-in ceiling tiles,fully demountable.
- Suspension system: As clause 250.
- Perimeter trim: Metal angle by manufacturer.
- Accessories: Connect adjustable hangers, etc.
- Integrated services fittings: To Architect and M&E Engineer's drawings..
- Other requirements: Cavity barrier as clause 287.

GENERAL/ PERFORMANCE

205 COMPLIANCE WITH PERFORMANCE REQUIREMENTS

- Testing/ assessment: Submit UKAS accredited laboratory reports for the following: Electric al continuity and earth bonding .
- Materials, components and details: Use those used in the test and identified in the assessment reports. If discrepancies arise, give notice.

210 ENVIRONMENT

- Environmental classification to BS EN 13964: Class A.

COMPONENTS

240 SAMPLES

- General: Submit representative samples of the following: tile and grid .

245 STANDARDS

- Components: To BS EN 10346.
  - Aluminium sheet, strip and plate: To BS EN 485.
  - Aluminium bars, tubes and sections: To relevant parts of BS EN 515, BS EN 573, BS EN 755 and BS EN 12020.

250 SUSPENSION SYSTEM CONCEALED - TO MANUFACTURERS RECOMMENDATIONS
- Manufacturer: Armsrtong.
  - Product reference: C Channel + Spring T suspension system with Metal T-Clip F unperforated tiles.
- Extent of system: Include all hangers, fixings, main runners, cross members, primary channels, perimeter trims, splines, noggings, clips, bracing, bridging, etc. necessary to complete the ceiling system and achieve specified performance.
- Top fixings: To manufacturers recommendations.
- Hangers: To manufacturers recommendations.
- Grid type: To manufacturers recommendations.
  - Finish: Steel.
  - Colour: As stated.

287 CAVITY BARRIERS
- Standard: Firefly Plus 30.
- Manufacturer: TBA Textiles Ltd.
  - Product reference: Manufacturers standard.
- Fire resistance: To BS 476-20, 30/30minutes (Integrity/insulation).
- Type/ Material: Textile.
- Thickness: Manufacturers standard.
- Density: Manufacturers standard.
- Facings/ Wrappings: None.

EXECUTION

305 SETTING OUT
- General: Completed ceiling should present, over the whole of its surface exposed to the room below, a continuous and even surface, jointed (where applicable) at regular intervals.
- Infill and access units, integrated services: Fitted correctly and aligned.
- Edge/ perimeter infill units size (minimum): Half standard width or length.
- Corner infill units size (minimum): Half standard width and length.
- Grid: Position to suit infill unit sizes. Allow for permitted deviations from nominal sizes of infill unit.
- Infill joints and exposed suspension members: Straight, aligned and parallel to walls, unless specified otherwise.
- Suitability of construction: Give notice where building elements and features to which the ceiling systems relate are not square, straight or level.

310 BRACING
- General: Secure, with additional bracing and stiffening to give a stable ceiling system resistant to design loads and pressures.

315 PROTECTION
- Loading: Do not apply loads for which the suspension system is not designed.
- Ceiling materials: When necessary, remove and replace correctly using special tools and clean gloves, etc. as appropriate.

320 TOP FIXING

- Building structure: Verify suitability.
- Structural soffit: review on site.
  - Suitability to receive specified fixings: Evaluate and confirm.
- Fixing generally: In accordance with BS EN 13964.
- Fixing to:
  - Concrete: Drill and insert suitable expanding anchors.
  - Aerated concrete: Fix through from the top of concrete units and provide a system of primary support channels.
  - Structural steel: Drill, or use suitable proprietary clips/ adaptors.
  - Metal roof decking: Fix to sides of liner tray corrugations.
  - Timber: Fix to side of joists at least 50 mm from bottom edge. If ceiling system is intended for fire protection, fix into top third of joists.
  - Hollow structural members: Submit fixing proposals.

325 INSTALLING HANGERS

- Wire hangers: Straighten and tension before use.
- Installation: Install vertical or near vertical, without bends or kinks. Do not allow hangers to press against fittings, services, or insulation covering ducts/ pipes.
- Obstructions: Where obstructions prevent vertical installation, either brace diagonal hangers against lateral movement, or hang ceiling system on an appropriate rigid sub-grid bridging across obstructions and supported to prevent lateral movement.
- Extra hangers: Provide as necessary to carry additional loads.
- Fixing:
  - Wire hangers: Tie securely at top with tight bends to loops to prevent vertical movement.
  - Angle/ strap hangers: Do not use rivets for top fixing.
- Spacings: assess M&E loading prior to installation.

330 INSTALLING TIMBER EDGE BATTENS

- Fixing: Firmly to perimeter wall or other building structure.
  - Fasteners: Plugged and screwed to walls.
  - Fixing centres (maximum): 600 mm.

335 INSTALLING PERIMETER TRIMS

- Jointing: Neat and accurate, without lipping or twisting.
  - External and internal corners: Mitre joints generally. Overlap joints at internal corners are acceptable.
  - Intermediate butt joints: Minimize. Use longest available lengths of trim. Align adjacent lengths.
- Fixing: Fix firmly to perimeter wall, edge battens or other building structure.
  - Fasteners: contractors choice.
  - Fixing centres: manufacturers recommendations.

345 CONCEALED GRIDS

- Grid fixings: To manufacturers recommendations.
- Primary support channels: Install level. Do not kink or bend hangers.
  - Wire hangers wrapped around primary channels: Twice wrapped. Loops tightly formed.
  - Angle/ Strap hangers: Do not use rivets for bottom fixing.
- Splines: Locate between infill units to assist levelling of adjacent units and to resist air movement at joints.
- Spring-tee grids: Do not omit primary channel.

355 INSTALLING INFILL UNITS

- General:
  - Perimeter infill units: Trimmed, as necessary, to fully fill space between last grid member and perimeter trim. Prevent subsequent movement.
  - Deeply textured infill units: Minimize variations in apparent texture and colour. In particular, avoid patchiness.
- Concealed grids: Install infill units uniformly, straight and aligned. Avoid dimension creep.
  - Infill units around recessed luminaires and similar openings: Prevent movement and displacement.

375 BOARD CEILING SYSTEMS

- Cut boards: Neat and accurate.
- Fixing to grid:
  - Board edges: Fully support. Screw to grid members. Set heads of screws below surface of boards and fill flush with surface.
  - Boards applied in two or more layers: Stagger joints.
- Movement joints: Provide as appropriate for the area of ceiling system and/ or to coincide with movement joints in surrounding structure.

385 UPSTANDS AND BULKHEADS

- Vertical ceiling systems: Support and brace to provide alignment and stability.
- High upstands: Provide support at base of upstand.

390 OPENINGS IN CEILING MATERIALS

- General: Neat and accurate. To suit sizes and edge details of fittings. Do not distort ceiling system.

395 INTEGRATED SERVICES

- General: Position services accurately, support adequately. Align and level in relation to the ceiling and suspension system. Do not diminish performance of ceiling system.
- Small fittings: Support with rigid backing boards or other suitable means. Do not damage or distort the ceiling.
  - Surface spread of flame rating of additional supporting material: Not less than ceiling material.
- Services outlets:
  - Supported by ceiling system: Provide additional hangers.
  - Independently supported: Provide flanges to support ceiling system.

401 CEILING MOUNTED LUMINAIRES

- Support: as required to prevent bowing of tiles.
  - Independently supported luminaires: Suspension adjusted to line and level of ceiling.
  - Ceiling supported luminaires: Modifications and/ or extra support required: To each luminaire.
- Surface mounted luminaires: Units installed so that in event of a fire the designed grid expansion provision is not affected.
- Modular fluorescent recessed luminaires: Compatible with ceiling module. Extension boxes must not foul ceiling system.
- Recessed rows of luminaires: Provide flanges for support of grid and infill units, unless mounted above grid flanges. Retain in position with lateral restraint.
- Fire protecting/ resisting ceiling systems: Luminaires must not diminish protection integrity of ceiling system.
- Access: Provide access for maintenance of luminaires.

406 TRUNKING

- Recessed trunking: Provide flanges for support of grid and infill units, unless mounted above grid flanges. Retain in position with lateral restraint.

411A MECHANICAL SERVICES

- Fan coil units:
  - Inlet/ Outlet grilles: Trim ceiling grid and infill units to suit.
  - Space beneath: Sufficient for ceiling system components.
  - Suspension and connections: Permit accurate setting out and levelling of fan coil units.
- Air grilles and diffusers:
  - Setting out: Accurate and level.
  - Linear air diffusers: Retain in place with lateral restraint. Provide flanges for support of grid and infill units. Colour of diffusers to match with ceiling finish.- - - Grille/ Diffuser ceiling joints: Provide smudge rings and edge seals. Colour of grilles and diffusers to match with ceiling finish.
- Smoke detectors and PA speakers:
  - Ceiling infill units: Scribe and trim to suit.
  - Independent suspension: Required.
  - Flexible connections: Required.
- Sprinkler heads: Carefully set out and level.

415 INSTALLING INSULATION

- Fitting: Fit accurately and firmly with butted joints and no gaps.
- Insulation within individual infill units: Fit closely. Secure to prevent displacement when infill units are installed or subsequently lifted.
  - Dustproof sleeving: Reseal, if cut.
- Width: Lay insulation in the widest practical widths to suit grid member spacings.
- Services: Do not cover electrical cables that have not been sized accordingly. Cut insulation carefully around electrical fittings, etc. Do not lay insulation over luminaires.
- Sloping and vertical areas of ceiling system: Fasten insulation, to prevent displacement.

421 CEILING SYSTEMS INTENDED FOR FIRE PROTECTION

- Junctions of ceiling systems with perimeter abutments and service penetrations: Seal gaps with tightly packed mineral wool or intumescent sealant to prevent penetration of smoke and flame.
- Ceiling system/ wall junctions: Maintain protective value of ceiling system.
  - Fixings and grounds: Noncombustible.
  - Metal trim: Provide for thermal expansion.
- Access and access panels: Maintain continuity of fire protection.

425 INSTALLING CAVITY FIRE BARRIERS

- Maximum ceiling void dimension in any direction: 20m.
- Fixing: Secure barrier at head and base using proprietary angle support system.
  - General: Fix barriers securely to channels or angles at abutments to building structure.
  - At perimeters and joints: Provide permanent stability and continuity with no gaps to form a complete barrier to smoke and flame.
- Joints: Form to preserve integrity in fire.
- Service penetrations: Cut barriers neatly to accommodate services. Fit fire resistant sleeves around flexible materials. Fill gaps around services to fire barrier manufacturer's recommendations to maintain barrier integrity. Adequately support services passing through the barrier.
- Ceiling systems intended for fire protection: Do not impair fire resisting performance of ceiling system.
- Ceiling systems not intended for fire protection: Do not mechanically interlink barriers with ceiling system.

500 ELECTRICAL CONTINUITY AND EARTH BONDING

- Substantial conductive parts of the ceiling system: Electrically continuous and fully earth bonded to carry prospective earth fault currents.
  - Standard: To BS 7671.
- Sequence: Complete earth bonding as soon as possible after completion of each independent area of suspension system.
- Testing: After completion of the ceiling system, associated services and fittings, test conductive parts of suspension system required to carry earth fault current, or used as bonding connections. Give notice before testing.
  - Electrical continuity: Measure from various distant conductive points of ceiling system and to earth bar in distribution board serving the area.
  - Test current: Sufficient to indicate probable electrical performance under fault conditions.
  - Test instrument: Type providing a pulse of about 25 A at safe voltage for safe duration, and indicating resistance in ranges 0-2 ohms and 0-20 ohms.
  - Resistance of measuring conductors: Deduce from test instrument readings.
  - Test readings: Record and certify. Add results to resistance of other parts of the path forming the earth fault loop.

COMPLETION

505 TOOLS

- Access tools: At Completion, supply one set of the following: To manufacturers recommendations .

520 USER INSTRUCTIONS

- Contents: Include the following:
  - Correct methods for removing and replacing infill units and other components.
  - Cleaning methods and materials.
  - Recommendations for redecoration.
  - Ceiling systems intended for fire protection: Limitations placed on subsequent alterations and maintenance procedures, to ensure that their fire performance is not impaired.
  - Maximum number, position and value of point loads that can be applied to ceiling system after installation.

530 SPARES

- General: At Completion supply the following: 30 number ceiling tiles.

M
Surface finishes

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

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

To be read with Preliminaries/ General conditions.

TYPES OF COVERING

150A SHEETING VINYL TO FLOOR - DESIGN INTENT ONLY DESIGN AND INSTALL IS BASE BUILD

- Location: As indicated on drawings.
- Base: Existing substrate.
  - Preparation: Complete Design.
- Fabricated underlay: Complete Design.
- Flooring roll: Homogeneous PVC to BS EN 13845.
  - Manufacturer: Altro Floors.
    Product reference: Altro Stronghold 30 3mm thich Safety Floor.
  - EN ISO 10874 class: 34/43.
  - Slip potential:
    Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to BS 7976: =55 (wet).
    Surface roughness (Rz) (minimum) to BS 1134: =20 (wet).
  - Recycled content: 10%.
  - Width: 2000mm.
  - Thickness: 3mm.
  - Colour/ pattern: Dolphin K3010.
- Adhesive (and primer if recommended by manufacturer): Complete Design.
- Seam welding: As recommended by flooring manufacturer.
- Accessories: Edging trim for thresholds - developer to complete design.
- Finishing: Seal and polish.
- Other requirements: Coved skirting. Where the flooring is used to form the coved skirting, make certain that the wall background is smooth, clean and dry enough to allow full adhesion of the system. Non-slip finish..

150B PVC-U SHEET CLADDING TO WALLS FOR DESIGN INTENT OBLY DESIGN AND INSTALLATION BY BASE BUILD TEAM

- Location: As indicated on drawings
- Substrate: complete design
  - Preparation: To manufacturer's recommendations
- Sheet: Extruded semi-rigid PVCu sheet, EU Grade
- Maximum service temperature: 60°C
- Fire rating: BS 476 Part 7 (1987) surface spread of flame - Class 1
  BS 476 Part 6 (1989) fire propagation - Class 0*
  (*when fixed to a non-combustible substrate)
  EN13501-1 B-s3, d0
- Manufacturer: Altro.
  - Web: www.altro.co.uk.
  - Email: enquiries@altro.com.
  - Product reference: Altro Whiterock White
- Size: width 1220 mm height to suit single sheet height .
- Thickness: 2.5mm
- Surface finish: Satin
- Colour: White
- Light reflectance value: 89
- Adhesive: AltroFix W139 or to manufacturer's recommendations depending on substrate
- Other requirements:
  - Altro Whiterock FlexiJoint
  - AltroFix W139 Wall Cladding Adhesive
  - AltroFix W157 uPVC Wall Cladding Adhesive
  - Altro Whiterock Joints and Transitions
  - Angles and corner bends to be thermoformed on site
  - Transition strip to coving required

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.

220 SAMPLES

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

250 LAYOUT - ROLL MATERIALS

- Setting out of seams: Agree setting out for sheeting types M50/ Cross seams will not be permitted .

251 LAYOUT - SEAMS IN ROLL MATERIALS

- Setting out: Minimise occurrences of seams and cross seams.
- Cross seams: Not permitted in following locations: In general.

252 LAYOUT - PATTERNS

- Setting out: Agree setting out for covering types M50/ In general .

270 EXTRA MATERIAL

- Provision of extra material: At completion, hand to Employer extra material of each type of covering to extent of 5%.

330 COMMENCEMENT

- 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.

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, Annexe A or BS 8203, Annexe 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: Arditex NA smoothing compound.
- Manufacturer: Ardex UK Ltd..
  - Product reference: Arditex NA applied to base at a minimum thickness of 3mm in accordance with manufacturers product data sheet incorporating aggregate for applications more than 12mm thick. Allow to dry before laying floor tiling/sheeting.

531 SURFACE DAMP PROOF MEMBRANE

- Manufacturer and reference: AltroProof Solo "Universal" epoxy surface damp proof membrane by Altro Floors effective up to 97%RH.
  - In the event of underfloor heating, please consult Altro Technical for for conditions of use.
  - Apply in accordance with manufacturers instructions.

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

641 ADHESIVE FIXING - ALTRO SHEET FLOORING
- Place the material in position on the floor, allowing at least 25mm each end for trimming, and overlapping at least 15mm at joints.
- Cut-in material along joints.
- Fold (do not roll) the material back along half its length. When adhesive is ready, refold material back onto adhesive. Repeat for second half of material.
- Consult data sheet on rolling requirements.

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

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.

680A SEAM WELDING ALTRO VINYL FLOORS
- Do not commence welding of coverings until a minimum of 24 hours after laying or until adhesive has completely set.
  - Cut groove, 3 mm wide by 2/3 the depth of material, evenly along each joint using:
  - Altro hand grooving tool or
  - Automatic grooving machine fitted with diamond blade.
  - Hot-weld using hot air welding gun (fitted with high speed welding nozzle) and Altro welding rod. Select colour of rod to match floor covering. Cut off surplus weld rod with spatula. Do not chemical weld.
  - Form a neat, smooth, strongly bonded joint, flush with finished surface.

720 DOORWAYS
- Joint location: On centre line of door leaf.

731 SEALANT ALTRO VINYL FLOORS
- Manufacturer and reference: Altromastic 100 by Altro Floors, colour to match floorcovering.
  - Location: To all exposed edges of flooring material around all protrusions through floor and pipework as necessary.

741 EDGINGS AND COVER STRIPS
- Manufacturer: Genesis EPS Internationa tel 01642 713000 .
  - Product reference: vinyl / tile EDS angled profile .
- Material/ finish: Silver .
- Fixing: Secure with edge of covering gripped. Use matching fasteners where exposed to view

750 STAIR NOSINGS AND TRIMS
- Manufacturer: Genesis EPS international tel 01642 713000.
  - Product reference: NHD17246.
- Material/ finish: Brushed aluminium black infill.
- Fixing: Secure, level and with mitred joints. Adjusted to suit thickness of covering with continuous packing strips of hardboard or plywood. Nosings and packing strips bedded in gap-filling adhesive recommended by nosing manufacturer.
  - Screw fixing with matching plugs: Required.

770A SKIRTINGS
- Manufacturer: Altro.
  - Web: www.altro.co.uk.
  - Email: enquiries@altro.com.
  - Product reference: Self-Coved Skirting - Whiterock
- Cove former: Altro 38R.
- Securely bond to base and background
  - Turn flooring material up wall and securely bond to cove former and background, with top edge straight.
  - Accurately mitre at corners
  - Height: Minimum 150mm
  - Top edge: Overlap by 50mm
- Adhesive: As F Ball adhesive recommendations
- Hot weld joints and mitred corners with matching Altro welding rod. Do not chemical weld.
- Seal underside of Whiterock sheet using Altromastic 100 clear (see Altro detail drawing WF8)

COMPLETION

820 FINISHING Vinyl
- 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

M60 Painting/clear finishing

To be read with Preliminaries/General conditions.

COATING SYSTEMS

151A EGGSHELL/ SATIN PAINT DESIGN INTENT ONLY DESIGN AN INSTALLATION IS BASE BUILD TEAM
- Manufacturer: Dulux.
  - Product reference: Vinyl eggshell. Colour to match RAL 9010 White.
- Surfaces: Pre-primed and sealed.
  - Preparation: Degrease and provide key.
- Initial coats: Sealer.
  - Number of coats: 1.
- Undercoats: As recommended by manufacturer.
  - Number of coats: 1.
- Finishing coats: Eggshell.
  - Number of coats: 1.

GENERALLY

210 COATING MATERIALS
- Manufacturers: Obtain materials from any of the following:
  Dulux.
- 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.

240 SURFACES NOT TO BE COATED
- areas of prefinished ceiling tiles and trim and intumescent coating.

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 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.

420 FIXTURES AND FITTINGS

- Removal: Before commencing work remove: any surface mounted fixtures.
- Replacement: Refurbish as necessary, refit when coating is dry.

425 IRONMONGERY

- Removal: Before commencing work: Remove ironmongery from surfaces to be coated.
- Hinges: Do not remove tape and protect.
- Replacement: Refurbishment as necessary; refit when coating is dry.

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.

490 PREVIOUSLY COATED STEEL
- Defective paintwork: Remove to leave a firm edge and clean bright metal.
- Sound paintwork: Provide key for subsequent coats.
- Corrosion and loose scale: Take back to bare metal.
- Residual rust: Treat with a proprietary removal solution.
- Bare metal: Apply primer as soon as possible.
- Remaining areas: Degrease.

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.

521 UNCOATED STEEL - MANUAL CLEANING
- Oil and grease: Remove.
- Corrosion, loose scale, welding slag and spatter: Remove.
- Residual rust: Treat with a proprietary removal solution.
- Primer: Apply as soon as possible.

531 UNCOATED STEEL - BLAST CLEANING
- Oil and grease: Remove.
- Blast cleaning:
  - Atmospheric conditions: Dry.
  - Abrasive: Suitable type and size, free from fines, moisture and oil.
  - Surface finish: To BS EN ISO 8501-1, preparation grade Sa2.
- Primer: Apply as soon as possible and within four hours of blast cleaning.

541 UNCOATED ALUMINIUM/ COPPER/ LEAD
- Surface corrosion: Remove and lightly key surface.
- Pretreatment: Etching primer if recommended by coating system manufacturer.

552 UNCOATED PVC-U
- Dirt and grease: Remove. Do not abrade surface.

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

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.

645 SEALING OF INTERNAL MOVEMENT JOINTS
- General: To junctions of walls and ceilings with architraves, skirtings and other trims.
- Sealant: Water based acrylic.
  - Manufacturer: Contractor's choice.
    Product reference: Submit proposals.
  - Preparation and application: As section Z22.

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.

770 EXTERNAL DOORS
- Bottom edges: Prime and coat before hanging doors.

780 BEAD GLAZING TO COATED WOOD
- Before glazing: Apply first two coats to rebates and beads.

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

810 WATER REPELLENT
- Application: Liberally flood surface, giving complete and even coverage.

N
Furniture/Equipment

N10
General fixtures/ furnishings/ equipment

N10 General fixtures/ furnishings/ equipment

To be read with Preliminaries/General conditions.

PRODUCTS

110A PURPOSE MADE SCULPTURE CAFE SERVERIES

- Manufacturer:
  Showcase interiors
  contact PAUL BARKER
  Strategic Director

  Office: 08458 336 515
  Mobile: 07392 866 166

  Head Office Address:
  Paslow Hall Farm Estate
  King Street
  High Ongar
  Essex
  .
- Fabrication: contractor to propose for fabrication. metal framed with timber carcass, materials as indicated n architects drawings include for aluminium signage & CCTV framing. Coordination with service supplies required.
  .
  Other requirements: contactor to complete design for fabrication, serveries to be removable without any permanent damage to listed building fabric.

EXECUTION

770 TRIMS

- Lengths: Wherever possible, unjointed between angles or ends of runs.
- Running joints: Where unavoidable, obtain approval of location and method of jointing.
- 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 APPLIANCES

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

N12
Commercial catering fittings, furnishings and equipment

N12 Commercial catering fittings, furnishings and equipment

PRODUCTS

311 FOOD PREPARATION BENCHING TO KITCHEN AREAS AS INDICATED ON CATERING LAYOUT DRAWINGS

- Manufacturer: PREMIER KITCHEN FABRICATIONS.
  - Product reference: Submit proposals.

    All benching shall be free standing, to suit the particular design and specification.

    Verify actual dimensions of construction to receive metal countertops by site measurements before fabrication. Prior to installation the contractor shall provide fabrication Drawings for client approval.

- Dimensions: AS INDICATED ON CATERING LAYOUT DRAWINGS.
- Work surface:
  - Material: Stainless steel grade 1.4301 (304)

    Benching shall have working surfaces made from 1.5 mm, 304 grade stainless steel. Units shall have a nominal 50 mm turndown all round, finished with a return chamfer or turn-under. Where located adjacent to a wall, benching shall have a 225mm rear high upstand as an integral part of the working surface. Upstand to be detailed to provide a rigid and hygienic finish, complete with turnback and 15 mm turndown. The end of the upstand shall be closed in line with the side turndown. Spacers shall be provided to ensure that there cannot be an edge-on contact between the unit back edge and adjacent fabric or services
    .
    Where stainless-steel sinks occur in stainless-steel tops, factory weld into one integral unit. Grind and polish surfaces to produce uniform, directional satin finish, with no evidence of welds and free of cross scratches. Drawers, where specified, shall be constructed from 304 grade stainless steel with runners and supports to carry a removable 100 mm deep gastronorm containers. Taps supported with additional strengthening plate.

    When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces clean.
    A non-toxic, impervious, sound deadening material, bonded with an adhesive, shall be applied to a minimum of 85% of the underside of the working surface. Sink benching shall have a removable undershelf of 1.5 mm, 304 grade stainless steel. It shall be finished with a turndown all round, or where located against a wall, turndown to front and ends, with a 225 mm high rear upstand. The shelf shall be nominally 250 mm above floor level to allow ease of cleaning..

  - Finish/ Colour: Polished .

- Support: box stainless adjustable frame

  The fully-framed under structure and legs shall be 304 grade stainless steel of minimum 30 mm tube box section and shall support the working surface at a height of 900mm above floor level. The depth of the under structure shall allow for a 10 mm front overhang for the worktop. The nominal length shall allow for a 25 mm overhang of the worktop. All benching to be on brake lock castors except for fixed plumbed in sink units and instanta boilers.

Rear legs shall be inset 105mm, to allow for service runs except where the bench is to support a grill. The understructure shall be adequately braced to ensure stability in use.

Benching shall allow underbench storage of bins, etc. with open void clear sections. The bench shall be adequately braced to ensure stability in use

Where benching is to support equipment such as mixers, slicers, bulk water boilers, etc., additional reinforcement shall be provided at 300 mm intervals. .

- Material: Stainless steel grade 1.4301 (304).
- Finish/ Colour: Polished .

• Other requirements:
All benching to be on brake lock castors except for fixed plumbed in sink units and instanta boilers
Keep finished surfaces covered with polyethylene film or other protective covering during handling and installation.
Each bench shall be fitted with an electrical stud for connection (by others) to an external equipotential conductor. The bench shall be constructed in such a way as to ensure effective electrical connection between all components and fixings.
.

381 TAPS EACH SINK INCLUDE BOTH MIXER AND PR ERINSE

• Taps: MIXER.
- Manufacturer: Mechline Aquajet.
  Product reference: AJ B 306L .
- Operation: Lever.
- Material: Chromed steel.
  Taps: [PRE RINSE___].
- Manufacturer: [Mechline Aquajet_].
  Product reference: [AJ PR30 ST].
- Operation: [___Lever__].
- Material: [_Chromed steel_____].

• Other requirements: NA.

411 REFRIGERATION AND FREEZER UNITS

- Item: COLD ROOMS and BLAST CHILLER.

  Installer to complete design in line with drainings and information supplied
  Verify actual dimensions of construction to receive metal countertops by site measurements before fabrication. Prior to installation the contractor shall provide fabrication Drawings for client approval.

  LOCATIONS
  LG 036 - Level LG Freezer / Chiller dual room with insulated floor to the freezer
  GF 031 - Level GF Chiller floorless
  FF 039 - Level 01 Freezer / Chiller dual room with insulated floor to the freezer
  FF 039 - Level 01 Large Chiller room
  FF 039 - Supply Blast Chiller Type by Foster to suit drawings

- Manufacturer: Crowther and Shaw.
  - Product reference: Submit proposals.
- Dimensions: As Indicated on catering layouts.

  FABRIC DESIGN
  100mm PIR panels to all walls and to ceilings.
  White foodsafe finish to all seen surfaces.
  Modular floor, reinforced with 12mm plywood overlaid with 2mm Ali Five Bar.
  Walls sat in U-channel fixed and sealed to existing floor.
  Internal corners covered with aluminium angle and 2 part coving.
  External corners cloaked with white flashings.
  4 No. Hinged Doors and frames clear opening: 850mm x 2000mm.
  2 No. manual sliding door and frames, clear opening 850mm (w) x 2000mm (h) no locks.
  White food safe door blades, capped with anodized aluminium.
  Anodized Aluminium Frames with anodized reveals.
  PVC strip curtain fit to freezer doors.
  Freezer doors complete with heater tapes and transformer to suit.
- Colour: White.
- Service connections:
  Installer to supply complete refrigeration system to each room comprising the following components.
  1 x Condensing Unit
  1 N° pressure relief valve fit to each freezer.
  1 x Ceiling mounted electric defrost evaporator
  1 x Control panel including digital temperature display and defrost controller
  Interconnecting refrigeration quality insulated copper pipework
  Electrical cables from panel to evaporator and condensing unit
  Condensate drain including trace heating in freezers from cooler to suitable drain allowance for pumped drain where necessary. .
- Other requirements: PRV's heater tapes and transformers to be wired by the refrigeration contractor..

431 RACKING To Wet Store and Lower ground Storage areas

Installer to complete design in line with drawings and information supplied Racking shall be provided as required in the particular specification. General design and detail of the system shall provide a smooth finish with no sharp edges or dirt traps. Refer to layout drawings and provide drawings in line with required layouts.

Racks shall be of robust construction suitable for heavy duty usage, adequately braced to ensure stability in use and supplied complete with linking devices where required.

Each shelf shall be marked with the manufacturer's safe working load. Shelves shall be adjustable for height.

- Manufacturer: RAPID RACKING .
  - Product reference: Rapid Racking Rapid 1 .
- Shelves:
  - Material: Chipboard decking applied to every level c/w support beams for Heavy Duty Levels .
  - Finish/ Colour: Adjustable Wide Span shelving with Blue uprights and Orange beams...
- Accessories: All upright frames over 2m must be floor fixed with 12mm diameter sleeve anchors Inc..

432 RACKING GROUND AND FIRST FLOOR STORAGE AREAS

Racking shall be provided as required in the particular specification. General design and detail of the system shall provide a smooth finish with no sharp edges or dirt traps.

Refer to layout drawings and provide drawings in line with required layouts.

Racks shall be of robust construction suitable for heavy duty usage, adequately braced to ensure stability in use and supplied complete with linking devices where required.

Each shelf shall be marked with the manufacturer's safe working load. Shelves shall be adjustable for height.

Generally 600mm wide. Manufacturer to provide layout drawings in line with catering layouts. Include for 1830 height 4 tier shelf units.

- Manufacturer: CAMBRO.
  - Product reference: Camshelving Metric Premium Series .
- Shelves:
  - Material: Steel core composite plastic .
  - Finish/ Colour: Manufacturers standard speckled white.
- Accessories: Dunnage Stand.support requirfements to manufacturers standard.

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.

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