

SPECIFICATION



Client **UCLH**
 Project **UCLH Framework Wolfson Enabling works**
 Reference **GB 1010061/ D1**
 Date **Aug 2012**

C20

Demolition

AMENDMENT	REVISION NOTE	DATE	BY
	First Issue	15.08.2012	RJ
Prepared by	Royden John		RJ
Checked by			
Authorised by			

Wolfson Enabling Works

GB1010061

C20 Demolition

To be read with Preliminaries/General conditions

GENERAL REQUIREMENTS

- 110 DESK STUDY/ SURVEY
- Scope: Before starting deconstruction/ demolition work, examine available information, and carry out a survey of:
 - the structure or structures to be deconstructed/ demolished,
 - the site on which the structure or structures stand, and
 - the surrounding area.
 - Report and method statements: Submit, describing:
 - Form, condition and details of the structure or structures, the site, and the surrounding area.
Extent: as indicated on drawings GB1010061- L- 102 - 103 .
 - Type, location and condition of features of historical, archaeological, geological or ecological importance.
 - Type, location and condition of adjoining or surrounding premises that might be adversely affected by removal of the structure or structures, or by noise, vibration and/ or dust generated during deconstruction/ demolition.
 - Identity and location of services above and below ground, including those required for the Contractor's use, and arrangements for their disconnection and removal.
 - Form and location of flammable, toxic or hazardous materials, including lead-based paint, and proposed methods for their removal and disposal.
 - Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage.
 - Proposed programme of work, including sequence and methods of deconstruction/ demolition.
 - Details of specific pre-weakening required.
 - Arrangements for protection of personnel and the general public, including exclusion of unauthorized persons.
 - Arrangements for control of site transport and traffic.
 - Special requirements: n/a .
 - Format of report: electronic format .
- 120 EXTENT OF DECONSTRUCTION/ DEMOLITION
- General: Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to upper level of floor.
- 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.

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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.
- 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.

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- 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.
- 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 indicated on drawings GB1010061- L- 102 - 103.
 - Parts which are to be kept in place: Protect.
 - 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.

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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.

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.

511 EMPLOYER'S PROPERTY

- Components and materials to remain the property of the Employer: general fixtures indicated as transfer items.
- Protection: Maintain until these items are removed by the Employer or reused in the Works, or until the end of the Contract.
- Special requirements: carefully remove and set aside.

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.

SPECIFICATION
DEVEREUX
 A R C H I T E C T S

Client **UCLH**
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K10

Plasterboard dry linings/ partitions/ ceilings

AMENDMENT	REVISION NOTE	DATE	BY
A	First Issue Clause 110, 111 & 112 amended, clause 325 removed clause 326 added	15.08.2012 29.08.2012	RJ RJ
Prepared by	Royden John		RJ
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K10 Plasterboard dry linings/ partitions/ ceilings

To be read with Preliminaries/ General conditions.

20 CONSTRUCTION

Drylining to be constructed in accordance with manufacturers recommended details

30 ALTERNATIVE PRODUCTS AND SYSTEMS

- Where reference is made to 'equal or approved', the contractor may offer alternative systems for consideration as substitutes provided such products meet or exceed the Specified Performance Requirements and the Features and Technical Characteristics described in the System Description.
- The Contractor is to demonstrate compliance with the contract drawings, specifications and documents and that like for like equivalence is fully achieved on a project specific basis.
- Where alternative systems are offered, these shall be proposed at Tender Stage and shall include evidence of performance, detailed drawings, samples and test certificates demonstrating that the proposed system has the equivalent technical characteristics to the system specified.

40 BREEAM AND VOLATILE ORGANIC COMPOUNDS

All timber products to comply with the requirements as stated in BREAM manuals and in particular:

Wood Panels

- " Particleboard,
- " Fibreboard including MDF,
- " OSB,
- " Cement-bonded particleboard
- " Plywood
- " Solid wood panel and acoustic board BS EN 13986:2004

Formaldehyde E1

Verify that regulated wood preservatives are absent and of the minimum content.

Decorative paints and varnishes BS EN 13300:2001

referred to the criteria of Decorative Paint Directive

2004/42/CE43

VOC (organic solvent) content (testing req. 6), requirement for Phase 2. Fungal and algal resistant.

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50 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 documentation to verify that all timber to be to BREEAM tier 1 accreditation

- full chain of custody - (As defined in BREEAM Healthcare Assessor Manual 2008 issue 4, Checklist A5 table 27)

TYPES OF DRY LINING

110 METAL STUD PARTITION SYSTEM TYPE A

Drawing references: L-100 & L-101

- Manufacturer and reference : British Gypsum Ltd, Gypwall ROBUST or equal approved.
 - Nominal thickness : **124mm**
 - Performance criteria :
 - Head condition: Existing concrete or timber soffit
 - Head deflection allowance: +/- 15mm
 - Maximum height : 4900 mm - full height to u/s soffit to be confirmed
 - Structural performance:
 - Strength grade to BS 5234-2: **Severe**
 - Additional tests: None
 - Air pressure and deflection: None
 - Fire resistance of complete partition assembly to BS 476-20 and -22:
 - Integrity/ insulation: **Up to 60 minutes.**
 - Sound insulation of complete partition assembly:
 - Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: **52 dB.**
 - Metal framing: As recommended for the purpose by the board manufacturer, fabricated from galvanized mild steel sheet to BS EN 10142.
 - Coating designation: DX51D+Z275-N-A-C.
 - Studs : 92 S 60 C at 600 mm centres for increased height centres can be reduced specialist manufacturer to advise.
 - Floor channel : 94 DC 60.
 - Head channel : 94 EDC 70
 - Linings: 1x 15mm Duraline board each side.
 - Fixing: As clause 590
 - Screws : 25 and 42 mm dry wall screws.
 - Cavity insulation: Isover APR1200.
 - Recycled content: Approx 86% - (from manufacturers data)
 - Thickness: 50mm
 - Sealant : As clauses 331, 515 and 556.
 - Finishing: Skim coat finish as clause 680
 - Primer/ sealer: N/A
 - Accessories: Corner beads, in accordance with clause 695
 - Other requirements:
 - Fixing straps at horizontal board joints in accordance with clause 570
 - 18 mm plywood fixing noggins fixed between studs with support plates or angles system in accordance with clause 335, for support of M&E services and wall mounted fixtures, fittings and equipment .
 - Fire stopping around all service penetrations : _____ Fire stopping positions to be co-ordinated with fire strategy drawing L301 & L-302 - As section P12:XXX
 - Head deflection : 2 no layers 30mm thick Glasroc Firecase 'F' board as continuous dropped soffit at head, fire stop with Gyproc FiresStrip all in accordance with manufacturers details were required ; Fixed in accordance with clause 595.
 - Door frames : - Openings sleeved with 94 DC 60 channels and constructed in accordance with manufacturers details.
- SEE GUIDANCE NOTES

111 METAL STUD PARTITION SYSTEM TYPE B

Drawing references: L-100 & L-101

- Manufacturer and reference : British Gypsum Ltd, Gypwall ROBUST or equal approved.
 - Nominal thickness : **124mm**
 - Performance criteria :
 - Head condition: Existing concrete or timber soffit
 - Head deflection allowance: +/- 15mm
 - Maximum height : 4900 mm - full height to u/s soffit to be confirmed
 - Structural performance:
 - Strength grade to BS 5234-2: **Severe**
 - Additional tests: None
 - Air pressure and deflection: None
 - Fire resistance of complete partition assembly to BS 476-20 and -22:
 - Integrity/ insulation: **Up to 60 minutes.**
 - Sound insulation of complete partition assembly:
 - Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: **45 dB.**
 - Metal framing: As recommended for the purpose by the board manufacturer, fabricated from galvanized mild steel sheet to BS EN 10142.
 - Coating designation: DX51D+Z275-N-A-C.
 - Studs : 92 S 60 C at 600 mm centres for increased height centres can be reduced specialist manufacturer to advise.
 - Floor channel : 94 DC 60.
 - Head channel : 94 EDC 70
 - Linings: 1x 15mm Duraline board each side.
 - Fixing: As clause 590
 - Screws : 25 and 42 mm dry wall screws.
 - Cavity insulation: NA.
 - Recycled content: NA
 - Thickness: NA
 - Sealant : As clauses 331, 515 and 556.
 - Finishing: Skim coat finish as clause 680
 - Primer/ sealer: N/A
 - Accessories: Corner beads, in accordance with clause 695
 - Other requirements:
 - Fixing straps at horizontal board joints in accordance with clause 570
 - 18 mm plywood fixing noggins fixed between studs with support plates or angles system in accordance with clause 335, for support of M&E services and wall mounted fixtures, fittings and equipment .
 - Fire stopping around all service penetrations : _____ Fire stopping positions to be co-ordinated with fire strategy drawing L301 & L-302 - As section P12:XXX
 - Head deflection : 2 no layers 30mm thick Glasroc Firecase 'F' board as continuous dropped soffit at head, fire stop with Gyproc FiresStrip all in accordance with manufacturers details were required ; Fixed in accordance with clause 595.
 - Door frames : - Openings sleeved with 94 DC 60 channels and constructed in accordance with manufacturers details.
- SEE GUIDANCE NOTES

112 METAL STUD PARTITION SYSTEM TYPE C

- Drawing references: L-100 & L-101
 - Manufacturer and reference : British Gypsum Ltd, Gypwall ROBUST or equal approved.
 - Nominal thickness : To match existing partition.
 - Performance criteria :
 - Head condition: Existing partition
 - Head deflection allowance: +/- 15mm
 - Maximum height : 4000 mm.
 - Structural performance:
 - Strength grade to BS 5234-2: **Severe**.
 - Additional tests: None
 - Air pressure and deflection: None
 - Fire resistance of complete partition assembly to BS 476-20 and -22:
 - Integrity/ insulation: NA.
 - Sound insulation of complete partition assembly:
 - Weighted sound reduction index R_w (minimum) to BS EN ISO 717-1: NA.
 - Metal framing: As recommended for the purpose by the board manufacturer, fabricated from galvanized mild steel sheet to BS EN 10142.
 - Coating designation: DX51D+Z275-N-A-C.
 - Studs : to match existing at 600 mm centres.
 - Floor channel : to match existing.
 - Head channel : to match existing
 - Linings: 1 x 15mm SoundBloc board each side
 - Use moisture resistant boards as face layer on wet walls NB showers and behind sinks/basins/ baths .
 - Fixing: As clause 591
 - Screws : 25 mm dry wall screws.
 - Cavity insulation: Isover APR 1200L.
 - Recycled content: Approx 86% - (from manufacturers data)
 - Thickness: 25 mm
 - Sealant : As clauses 331, 515 and 556.
 - Finishing: Skim coat finish as clause 680
 - Primer/ sealer: NA
 - Accessories: corner beads, in accordance with clause 695
 - Other requirements:
 - Fixing straps at horizontal board joints in accordance with clause 570
 - 18 mm plywood fixing noggins fixed between studs with support plates or angles system in accordance with clause 335, for support of M&E services and wall mounted fixtures, fittings and equipment .
 - Fire stopping around all service penetrations : _____ Fire stopping positions to be co-ordinated with fire strategy drawing L301 & L-302 - As section P12:XXX
 - Head deflection : 2 no layers 30mm thick Glasroc Firecase 'F' board as continuous dropped soffit at head, fire stop with Gyproc FiresStrip all in accordance with manufacturers details were required ; Fixed in accordance with clause 595.
 - Door frames : - Openings sleeved with 94 DC 60 channels and constructed in accordance with manufacturers details.
- SEE GUIDANCE NOTES.

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.

326 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.
 - Care should be taken to protect the existing dado rail, partition studs should not be fixed to the dado rail and a silicon seal should be used to close any gaps created

331 THERMAL SEALS FOR GYPROC LININGS

- Manufacturer and reference : British Gypsum Ltd, Gyproc Dri Wall Adhesive or Gyproc sealant .
- Before/ during installation of dry lining system, fully seal all air paths around the perimeter of the background and around structural openings and service penetrations through the background.
- Apply as a continuous fillet, leaving no gaps

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: **Clause 110 & 111** .
 - Location/ Size: **NA** .

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.

456 METAL FRAMING FOR PARTITIONS/ WALLS LININGS

- Install using components, accessories and methods recommended by the board manufacturer.
- Setting out: Accurately aligned and plumb.
 - 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, including:
 - Doorsets: Sleeved/ 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.

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.

482 METAL FRAMING WALL LINING SYSTEM

Setting out: Accurately aligned and plumb

- Position frame fixing brackets at equal vertical centres and fix to background with fixings as recommended by manufacturer or proprietary fixings for hollow backgrounds.
- Position channel sections at equal centres, maintaining sequence across openings, and locate in frame track at floor and ceiling. Provide additional frame channel sections as necessary to ensure support to all vertical edges of boards. Fix channel sections to fixing brackets using Screws as recommended by the system manufacturer.
- Provide additional frame sections at wall abutments and corners as recommended by board manufacturer.
- Install Fixing 'T's' for single layer board applications, inserted between face of framework and back of plasterboard lining, or Fixing Strap for double layer board applications, inserted between board layers, to receive fixings at end board joints, as recommended by manufacturer. Construct internal/ external corners, reveals and all junctions in accordance with manufacturer's recommended details.

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.

515 AIR/ ACOUSTIC SEAL TO GAPS AND AIR PATHS

- Manufacturer and reference : British Gypsum- Gyproc sealant or equal approved .
- Location : At junctions between partition(s) and adjoining structure and at other air paths.
- Application of sealant to dry lining systems: Continuous beads leaving no gaps or air paths.
- Acoustic sealant: Apply to perimeter abutments with walls, floors, ceilings and around openings.
 - Gaps greater than 6 mm wide: After application of sealant, complete sealing with jointing compound.
- Air pressure sealant: Apply to board to board and board to metal frame junctions in pressurised shafts, ducts, linings to external walls etc. Before/ during installation of dry lining system, fully seal all air paths around the perimeter of the background and around structural openings and service penetrations through the background. Apply as a continuous fillet, leaving no gaps.

545 CAVITY FIRE BARRIERS WITHIN SUSPENDED CEILINGS

- Type: **REFER TO NBS AND MANUFACTURERS GUIDANCE** .
- Fire resistance: **EDIT ME**.
- Ceiling void subdivision: Fix barriers **EDIT - CHECK ANY SPECIFIC PROJECT REQUIREMENTS** as indicated on the drawings and not more than 20 m apart in any direction.
- 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.

556 FIRE STOPPING AT PERIMETERS OF DRY LINING SYSTEMS

- Manufacturer and reference : **EDIT ME - see User guidance** .
- Application: To perimeter abutments to provide a complete barrier to smoke and flame. Pack gaps exceeding 6mm with tightly packed mineral wool prior to application of the intumescent mastic/ sealant.

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.

561 MOVEMENT JOINTS

- Manufacturer and reference:
At brick/ masonry wall abutments: Beads.
Width of gap: max 10mm
Fixing: Fixed to plasterboard in accordance with manufacturers recommended fixing instructions

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.

572 CEILING JOINTS

- For multi-layer boarding, stagger joints by at least 600mm.

591 FIXING PLASTERBOARD TO METAL FRAMING/ FIRRINGS

- Partitions/linings/casings :
- Face layer : Fix securely to all supports at maximum 300 mm centres (Reduce to 200 mm at external angles where recommended by the board manufacturer).
 - Previous layer of plank plasterboard : Install with long edges at right angles to studs, and fix securely to each stud using two screws.
Other previous layers: Fix securely to supports around the perimeter of each board at maximum 300 mm centres.
 - Ceilings: Fix securely to all supports at maximum 230 mm centres (reduced to 150 mm at board ends and at lining perimeters where recommended by the board manufacturer).
 - Fix working from the centre of each board. Position screws not less than 10 mm from the edge of the board
 - Screw heads: Set in a depression. Do not break paper or gypsum core.

593 FIXING PLASTERBOARD TO METAL SUPPORTS - CEILINGS

- Prior to board installation, prime all board edges in accordance with manufacturers recommendations (refer to manufacturer for instructions).
- Fix securely to all supports at a maximum 230 mm centres (reduced to 150 mm at board ends)
- Fix around board perimeters before making fixings in the centre of the board. All fixings to be strictly in accordance with manufacturers instructions. Position screws not less than 13mm from the edge of the board.
- Set heads in a depression; do not damage the board perforations or 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.

620 FIXING PLASTERBOARD WITH ADHESIVE DABS

- Setting out boards: Accurately aligned and plumb.
- Fixing to substrates: Securely using adhesive dabs.
- Adhesive dab spacings for each board:
 - Horizontally: One row along top edge and one continuous dab along bottom edge.
 - Vertically: One row along each edge and thereafter at intermediate spacings to suit size of board:

Thickness (mm)	Width (mm)	Dab centres (mm)
9.5	1200	400
9.5/12.5	900	450
12.5	1200	600
- Adhesive dab dimensions (width x length): At least 50-75 mm x 250 mm.
 - Position of dabs from edges/ ends of boards (minimum): 25 mm.

625 FIXING INSULATION BACKED PLASTERBOARD WITH ADHESIVE DABS

- Fixing to substrates: In addition to adhesive dab fixings, secure boards with nailable plugs in locations recommended by board manufacturer.

630 FIXING INSULATION BACKED PLASTERBOARD WITH ADHESIVE SPOTS

- Setting out boards: Accurately aligned and plumb.
- Fixing to substrates: Securely using adhesive spots and mechanical fastenings.
- Adhesive spot spacings to each board: Four vertical rows, at 400 mm centres in each row.
- Adhesive spot diameters (minimum): 25 mm.
- Mechanical fasteners: Nailable plugs in locations recommended by board manufacturer.

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.

680 SKIM COAT PLASTER FINISH

- Plaster type British Gypsum Thistle Board Finish or equal approved .
 - 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.

690 RIGID BEADS/STOPS

- Manufacturer: British Gypsum or equal approved.
 - Product reference:
 - Gyproc Drywall metal angle bead
 - Gyproc Drywall metal edge bead.
 - Material: Galvanized steel or plastic.

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 while still wet from surfaces of beads exposed to view.

SPECIFICATION



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Client **UCLH**
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 Date **Aug 2012**

K13

Rigid sheet fine linings and panelling

AMENDMENT	REVISION NOTE	DATE	BY
	First Issue	15.08.2012	RJ
Prepared by	Royden John		RJ
Checked by			
Authorised by			

K13 Rigid sheet fine linings and panelling

To be read with Preliminaries/ General conditions.

- 40 BREEAM AND VOLATILE ORGANIC COMPOUNDS
- Adhesives:
 - All adhesives to comply with the requirements of BS EN 13999-1:2007
 - Verify and provided accredited test evidence that carcinogenic or sensitising volatile substances are absent.

TYPES OF LINING AND PANELLING

- 148 PROPRIETARY PLASTICS CLADDING WHITE PVCu LININGS.
- Drawing reference(s): S-10 Finishes Schedule
 - Substrate: Existing plasterboard & Masonry.
 - Battens: N/A.
 - Panels:
 - Manufacturer: Trovex, 01992 625990.
 - Product reference: Trovex Diamond Semi rigid hygienic PVCu cladding.
 - Thickness: 2.5 mm.
 - Colour/ Pattern/ Finish: T.B.C.
 - Edge treatment: Straight and square with no rough edges permitted, post formed to manufacturer's recommendations.
 - Installation:
 - Method of fixing panels: In accordance with manufacturer's recommendations, as clause (s) 260 and 350. Adhesives as manufacturer's standard and in accordance with clause 40.
 - Joint treatment: Trovex Diamond H Joint sections.
 - Accessories: Silicone bead at perimeter edges using anti-fungal silicone seal ref A805. Jointing strip at junction with vinyl floor finish. Ensure that all junctions are fully sealed with no gaps or open joints..

GENERAL REQUIREMENTS

- 220 MATERIAL SAMPLES
- Representative samples of designated materials: Submit before placing orders.
 - Designated materials: Altro Whiterock as clause 145 .
- 230 CONTROL SAMPLES
- Sample area: Complete as part of the finished work.
 - Clause reference: 146 .
 - Location: En-Suite .
 - Size (minimum): 1no. finished cubicle .
 - Included features: ALL .
 - Approval of appearance: Obtain before proceeding.