

Wolfson Enabling Works

GB1010061

231 CONTROL SAMPLES

- Sample area: Complete as part of the finished work.
 - Clause reference: 147 .
 - Location: PEADS .
 - Size (minimum): 4no. panels .
 - Included features: ALL .
- Approval of appearance: Obtain before proceeding.

260 ENVIRONMENTAL CONDITIONS

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

FABRICATION/ FIXING/ FINISHING**310 ACCURACY OF FABRICATION**

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

350 FIXING LININGS AND PANELLING

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

SPECIFICATION

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

■ **DEVEREUX**
 A R C H I T E C T S

K32

Duct and wall linings

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

Wolfson Enabling Works

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K32 Panel cubicles/ duct and wall linings/ screens

To be read with Preliminaries/ General conditions.

- 161 DUCT LININGS – PREPLUMBED PANELS AND PROPRIETARY FRAMES ALL AREAS
- Manufacturer: Venesta or equal approved. contact tel: 01474 35333; www.venesta.co.uk.
 - Product reference: IPS Evolve or equal approved.
 - Preplumbed/ prefixed sanitary appliances/ fittings: Sanitary appliances fixed and sealed to IPS unit - Refer to section N13 for appliances.
 - Panels:
 - Type: Refer to IPS detail drawings for panel configuration. Width (coordinating): Refer to drawings.
 - Core material: Compact/ solid grade laminate. Panels have radiused and polished edges. Thickness: 13mm.
 - Facings: N/A - solid grade laminate. Colour/ Pattern/ Species: Chosen from Armatge Venesta standard colour range - colour TBC.
 - Edge treatment: Manufacturers standard.
 - Reaction to fire (minimum classification, finished panel): Class O.
 - Fasteners: Lift of panel using manufacturers standard details and fixings.
 - Framing: Manufacturers proprietary framing.
 - Flashgap panels: Flash gaps in solid grade laminate.
 - Skirting: Manufacturers skirting panel with coved flooring taken up face of skirting.
 - Other Requirements:
 - Contractor to provide full fabrication and installation drawings detailing all fixings and seals required to achieved the specified performance, particularly in shower locations. All joints to include gaskets/ sealing strips to ensure prevention of water ingress at the panel joints
 - Panel system to include for all grab rail loadings.
- 250 INSTALLATION
- Programming: Do not install cubicles or duct/ wall panels before building is weathertight, wet trades have finished their work, wall and floor finishes are complete, and the building is well dried out.
 - Accuracy: Set out to ensure frames and/ or panels and doors are plumb, level and accurately aligned.
 - Modifications: Do not cut, plane or sand prefinished components except where shown on drawings.
 - Fixing: Secure components using methods and fasteners recommended by the cubicle/ panel manufacturer. Prevent pulling away, bowing or other distortions to frames, panels and doors.
 - Moisture and thermal movement: Make adequate allowance for future movement.

SPECIFICATION
DEVEREUX
 ARCHITECTS

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

K40

Demountable suspended ceilings

AMENDMENT	REVISION NOTE	DATE	BY
A	First Issue Clause 108 amended	15.08.2012 30.08.2012	RJ RJ
Prepared by	Royden John		RJ
Checked by			
Authorised by			

Wolfson Enabling Works

GB1010061

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GB1010061

K40 Demountable suspended ceilings

To be read with Preliminaries/General conditions.

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.

TYPES OF CEILING SYSTEM**106 SUSPENDED CEILING SYSTEM TYPE A**

- Standard: To BS 8290-0 .
- Structural soffits: Existing Concrete or deck soffit
Ceiling system manufacturer: Rockfon or equal approved.
 - Product reference: MEDICARE AIR Edge A24 RockLine 24
- Ceiling type: High density stone wool resin bonded mineral wool with reinforced surface finish and double latex coated edges (not wet felted mineral fibre).
 - Grid form: Interlocking .
 - Grid exposure: Exposed
- Access: Fully demountable ceiling
- Ceiling module: 600 x 600mm
- Ceiling soffit above finished floor level: Refer to ceiling drawings L-410 & L-411 and finishes schedules S-010 .
- Performance:
 - Structural: Fittings exceeding 0.5kg in weight to be independently supported using appropriate accessories as recommended by manufacturer .
 - Fire: N/A .
 - Acoustic: Alpha W = 0.80 .
- Components:
 - Suspension system: Grid and hanger fixings and spacings as recommended by the suspended ceiling/membrane manufacturer. To include all hangers, fixings, main runners, cross members, primary channels, perimeter trims, splines, noggings, clips, bracing, bridging, etc., which are necessary to complete the installation .
 - Perimeter trim: As clause 260 .
 - Infill units: High density stone wool resin bonded mineral wool with reinforced surface finish and double latex coated edges (not wet felted mineral fibre)
Fire performance : Class A1 in accordance with EN 13501-1
Humidity resistance: No hygroscopic and able to resist up to 100 % relative humidity at 40 degrees C, providing 100% dimensional stability.
 - Boards: Not applicable
 - Fabric membranes: N/A .
 - Access units: N/A .
 - Insulation: N/A .
 - Air plenum barriers: N/A .
- Finish/ colour: Micro-textured / White.
- Accessories: N/A
- Integrated services fittings: Refer to M&E engineers spec for details of luminaires, grilles, smoke detectors etc. Refer to ceiling manufacturers recommended installation details for details of additional support hangers, clips, requirement for plywood or similar backing boards.
Large services or signage shall be independently supported. Services/ additional loads up to 10 KG, attach to main runners using ERICO iDS clips and suspension hangers. Services / additional loads up to 1.4Kg/ m2 can be installed into the system using lightweight yokes/ support arms to transfer the load to the top of the grid. Services/ additional loads less than 250g can be supported on the back of the tile using small yokes to spread the load on the back of the tile.
- Other requirements: The tiles should be secured to the grid with Connect Universal clips in order to withstand pressure during cleaning and to minimise dirt traps. All visible cut edges

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shall be repainted using Rockfon edge paint.

108 SUSPENDED CEILING SYSTEM TYPE **B**

- Standard: To BS 8290-0 .
- Structural soffits: Existing Concrete or deck soffit
- Ceiling system manufacturer: Rockfon or equal approved.
 - Product reference: SONAR Edge E24 RockLink 24 color to match existing
- Ceiling type: High density stone wool resin bonded mineral wool with reinforced surface finish and double latex coated edges (not wet felted mineral fibre).
 - Grid form: Interlocking .
 - Grid exposure: Exposed
- Access: Fully demountable ceiling
- Ceiling module: 600 x 600mm
- Ceiling soffit above finished floor level: Refer to ceiling drawings L-410 & L-411 and finishes schedules S-010 .
- Performance:
 - Structural: Fittings exceeding 0.5kg in weight to be independently supported using appropriate accessories as recommended by manufacturer .
 - Fire: N/A .
 - Acoustic: Alpha W = 1.00 .
- Components:
 - Suspension system: Grid and hanger fixings and spacings as recommended by the suspended ceiling/membrane manufacturer. To include all hangers, fixings, main runners, cross members, primary channels, perimeter trims, splines, noggings, clips, bracing, bridging, etc., which are necessary to complete the installation .
 - Perimeter trim: As clause 260 .
 - Infill units: High density stone wool resin bonded mineral wool with reinforced surface finish and double latex coated edges (not wet felted mineral fibre)
 - Fire performance : Class A1 in accordance with EN 13501-1
 - Humidity resistance: No hygroscopic and able to resist up to 100 % relative humidity at 40 degrees C, providing 100% dimensional stability.
 - Boards: Not applicable
 - Fabric membranes: N/A .
 - Access units: N/A .
 - Insulation: N/A .
 - Air plenum barriers: N/A .
- Finish/ colour: Micro-textured / White.
- Accessories: N/A
- Integrated services fittings: Refer to M&E engineers spec for details of luminaires, grilles, smoke detectors etc. Refer to ceiling manufacturers recommended installation details for details of additional support hangers, clips, requirement for plywood or similar backing boards. Large services or signage shall be independently supported. Services/ additional loads up to 10 KG, attach to main runners using ERICO iDS clips and suspension hangers. Services / additional loads up to 1.4Kg/ m2 can be installed into the system using lightweight yokes/ support arms to transfer the load to the top of the grid. Services/ additional loads less than 250g can be supported on the back of the tile using small yokes to spread the load on the back of the tile .
- Other requirements: The tiles should be secured to the grid with Connect Universal clips in order to withstand pressure during cleaning and to minimise dirt traps. All visible cut edges shall be repainted using Rockfon edge paint .

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GENERAL/ PERFORMANCE

- 210 ENVIRONMENT
- Environmental classification to BS EN 13964: **Normal**.

COMPONENTS

- 240 SAMPLES
- General: Submit representative samples of the following: Clause 106 & 108 .

- 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.

- 260 PERIMETER TRIMS All Areas
- Type: Steel angle trim, colour and finish to match exposed grid non corrosive wet areas.
 - Manufacturer: As per clause 106.
 - Product reference: Shadow moulding.
 - Fixings:
 - Fasteners: Manufacturers standard.
 - Fixing centres (maximum): 450 mm.

- 295 ADDITIONAL LOADS
- Large services or signage shall be independently supported. Services/ additional loads up to 10 KG, attach to main runners using ERICO iDS clips and suspension hangers . Services / additional loads up to 1.4Kg/ m2 can be installed into the system using lightweight yokes/ support arms to transfer the load to the top of the grid. Services/ additional loads less than 250g can be supported on the back of the tile using small yokes to spread the load on the back of the tile

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.

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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: Existing concrete slab.
 - 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: To Manufactures recommendation.

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 not 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: Hidden above ceiling.
 - Fixing centres: 450 mm.

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340 EXPOSED GRIDS

- Grid fixings: All ceiling types.
- Main runners: Install level. Do not kink or bend hangers.
 - Spliced joints: Stagger.
 - Wire hangers passing through main runners: Use sharp bends and tightly wrapped loops.
 - Angle/ strap hangers: Do not use rivets for bottom fixing.
 - Angular displacement of long axis of one runner in relation to next runner in line with it: Not visually apparent.
- Cross members supported by main runners or other cross members: Install perpendicular to intersecting runners.
- Cross tees: Flat and coplanar with flanges of main runners after panel insertion.
 - Cross tees over 600 mm long, cut and resting on perimeter trim: Provide an additional hanger.
- Holding down clips: Locate to manufacturer's recommendations.
 - Fire protecting/ resisting ceiling systems: Use clip type featured in the fire test/ assessment.

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.

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: Independent.
 - Independently supported luminaires: Suspension adjusted to line and level of ceiling.
 - Ceiling supported luminaires: Modifications and/ or extra support required: N/A.
- 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.

411 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.
 - Grille/ Diffuser ceiling joints: Provide smudge rings and edge seals.
- 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.

426 INSTALLING CAVITY FIRE BARRIERS

- Fire resistance to BS 476-20:
 - Integrity/ insulation: Refer to fire plans and ceiling plans .
- Material: Wire reinforced mineral wool at least 50 mm thick .
- Ceiling void subdivision areas (maximum): Refer to fire strategy plans and ceiling plans .
- Fixing:
 - General: Fix firmly to channels or angles at abutments to building structure.
 - At perimeters and joints: Secure. Provide permanent stability and continuity with no gaps. Provide a complete barrier to smoke and flame.
- Joints: Form to preserve integrity in fire.
- Service penetrations: Cut and pack to maintain barrier integrity. Sleeve flexible materials. 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**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.

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■ DEVEREUX
ARCHITECTS

UCLH
UCLH Framework Wolfson Enabling works
GB 1010061/ D1
Aug 2012

530 SPARES

- General: At Completion supply the following: 10 of each type of tile.

Windows/ rooflights/ screens/ louvres

AMENDMENT	REVISION NOTE	DATE	BY
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Prepared by	Royden John		RJ
Checked by			
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Wolfson Enabling Works

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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.

115 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.

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PRODUCTS**517 GLAZED WOOD SCREENS NON FIRE RESISTING**

Drawing reference: [C-300 + Schedule No S-002. The following information is extracted from Leaderflush Shapland screen literature]

Timber: Generally to BS EN 942.

- Species: 124x32mm Barum profile hardwood as BS EN 942:1996, table NA2 of a minimum density of 550 kg/m³, obtained from a FSC and Chain of Custody certified source.
 - Appearance class: NA.
 - Moisture content on delivery: 9-13%.
 - Panels: NA.
 - Assembly adhesive: PVAC to BS EN 204, Class D4 or as recommended by the joinery sub-contractor for the specified location and conditions .
 - Joinery workmanship: As section Z10.
 - Finish as delivered: To match door finish refer to specification L20.
 - Glazing details: 30x20mm high & 37x20mm hardwood beads with minimum density of 510kg/m³.
 - Glass: [12.8 Pilkington Optiphon]
 - Fixings: [No. 8 x 38mm long stainless steel tamper proof wood screws and cups at 200mm nominal centres]
- Special features/ Other requirements: Faber Interstitial venetian Blinds with dual control with cord and tilting rod (see S-004 for blind location), 18mm thick hardwood extension linings, length to suit overall width of wall. 60 x 18mm hardwood standard Barum profile architraves glued and pinned to frame. Gaps between frame and reveal to be packed with mineral wool quilt or pointed with a bead of intumescent paste or mastic each side in accordance with BS 8214:1990 table 2, Centre line of screen frame to align with centre line of partition.
- Fixing: Frames, extension linings to be counter bored by screen manufacturer for countersunk screw fixings. Fill holes and prepare for painting. Frame fixings to be staggered.

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.

SPECIFICATION



Wolfson Enabling Works

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

L20

Doors

AMENDMENT	REVISION NOTE	DATE	BY
A	First Issue Clause 422, 425 & 426	15.08.2012 30.08.2012	RJ RJ
Prepared by	Royden John		RJ
Checked by			
Authorised by			

L20 Doors/ shutters/ hatches

To be read with Preliminaries/ General conditions.

- 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.

GENERAL

- 110 EVIDENCE OF PERFORMANCE
- Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements. Fire Doorsets
- 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.

116 FIRE RESISTING DOORS/ DOORSETS/ ASSEMBLIES

- Certification: Provide evidence, in the form of a product conformity certificate, test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire resistance if tested to BS 476-22, BS EN 1634-1 or BS EN 1634-3, BS 8214: 1990 Comply with the requirements for BWF-CERTIFIRE; BM TRADA Q-Mark or other equivalent approved body, certified fire rated doorsets. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges seals and any additional fire stopping.
- All fire resisting door sets to be clearly marked in accordance with the guidance of the certifying authority using plastic plugs or equivalent, discreetly and permanently embedded in the leaf and or frame of the certified doorset.

120 SUPPLY OF TIMBER

Use only timber and veneers from farmed/ sustainable sources, FSC certified and chain of custody or other agreed and accredited source of supply. Submit proof of accreditation.

120 NON FIRE RESISTING DOORS/ DOORSETS/ ASSEMBLIES

- Provide certified evidence, in the form of a product conformity certificate or engineering assessment, that each 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.

150 SITE DIMENSIONS

- Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- Designated items:
Internal Doors .

170 CONTROL SAMPLES

- Procedure:
 - Finalize component details.
 - Fabricate one of each of the following designated items as part of the quantity required for the project.
 - Obtain approval of appearance and quality before proceeding with manufacture of the remaining quantity.
- Designated items:
L20:421 incl. ironmongery .

PRODUCTS

422 WOOD DOORSETS INTERVIEW & TREATMENT ROOMS - INTERIOR LAMINATE FACED DOORSETS

Manufacturer and reference : Leaderflush Shapland Ltd, Designer Range interior doorsets. or equivalent approved. Contact tel : 0870 240 0666 .

Fire resistance rating: Fire performance: See Door Schedule. Certification: BWF-CERTIFIRE.

Smoke control: Required if fire-rated.

- Sound insulation rating: **30dBA**.
- Door leaf:
 - Core: EnduraCor severe duty with finger-jointed softwood perimeter framing around core. to BS DD 171:1987, solid softwood or equivalent approved material to meet specified period of fire resistance
 - Facings: Laminated to match existing.
 - Lippings: Exposed hardwood to all edges..
 - Finish as delivered: Facings - left clean; Lippings – Hyalux clear lacquer with Hygienilac.
- Frame and architraves:
 - Frame :
 - Frame: Cubith split frame with 14mm separate stop.
 - Wood species: Sustainable hardwood..
 - Appearance class to BS EN 942: J30.
 - Finish as delivered: Primed for painting on site by others..
 - Architraves : Integral to frame.
 - Wood species: Sustainable hardwood..
 - Finish as delivered: Primed for painting on site by others.
- Glazing/ Infill details: Refer to door schedule.
 - Manifestation: None
 - Bead system: Steamed Beech hardwood bolection bead, pinned, finish to match lippings.
 - Size and position of aperture(s): As per door type elevations
 - Size and position of aperture(s): As per door type elevations
 - Moisture content on delivery: 10 to 12%..
 - Finish as delivered:
- Ironmongery: Refer to ironmongery schedule. Stainless steel or equivalent approved hinges, as supplied and fixed by door manufacturer.
- Hinges: Ref. J-603 satin stainless steel fixed pin hinge Grade 13 to BS EN 1935, supplied and fixed by doorset manufacturer.
- Locks: Factory morticed, supplied and fixed by doorset manufacturer.
- Perimeter seals: Standard type for this doorset, with intumescent seals rebated into frame..
- Fixing: Frames to be counter bored by door manufacturer and supplied with matching pellets for screw fixings.
- planted stops pinned, punched and filled; include packing as required. Fixings to be staggered.
- Other requirements: 1) Hygieniform PVC kick and mid-rail sheets bonded to door facing, not let-in flush; 2) HTM58 FR30/60 discs to be let-in flush with facing. .