

27 May 2016

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F10
Brick/ block walling
Revision B

Section Revision History

No.	Purpose	
A	E1 tender	15th Jun 2015
B	E1 tender	17th Aug 2015

F10 Brick/ block walling

To be read with Preliminaries/ General conditions.

**FOR REPAIRS TO EXISTING BRICKWORK IN GENERAL AND CHIMNEY
REBUILDING WORKS** Refer to RGA repair specification F10r.

F21
Natural stone/ ashlar walling/ dressings
Revision B

Section Revision History

No.	Purpose	
A	E1 tender	15th Jun 2015
B	E1 tender	3rd Aug 2015

F21 Natural stone/ ashlar walling/ dressings

To be read with Preliminaries/ General conditions.

**FOR REPAIRS TO EXISTING STONework IN GENERAL AND CHIMNEY
REBUILDING WORKS** Refer to RGA repair specification F10r.

H30

Fibre cement profiled sheet cladding/ covering

Section Revision History

No.	Purpose	
A	E1 tender	24th Jun 2015

H30 Fibre cement profiled sheet cladding/ covering

To be read with Preliminaries/ General conditions.

TYPES OF CLADDING/ COVERING SYSTEM

- 120A EQUITONE [NATURA] To internal faces of BMU areas
- Manufacturer: Marley Eternit Ltd.
 - Web: www.marleyeternit.co.uk.
 - Email: info@marleyeternit.co.uk.
 - Product reference: EQUITONE [natura]
 - Thickness: 12 mm.
 - Colour: N071 (TBC), a sample to be approved by Architect.
 - Panel size: cut off site to suit the site dimensions. Joint locations to be approved by Architect on site.
 - Fixing: Screw fixing into support system.
 - Joints: - Aluminium joint profile HJP 70 for horizontal joints;
 - EFPS 36 mm and EFPS 60 mm for vertical joints; provide samples before ordering.
 - Support system: Timber battens, 38 x 50 mm and 38 x 100 mm @ min. 300mm C/C for additional support.
 - Accessories: 40mm stainless steel screws as recommended by the manufacturer; Nicholson Airtrak proprietary ventilation system covered with lead flashing at top, include for timber fillets as necessary; perforated closer and purpose made tern coated stainless steel flashing at the base.

FIXING CLADDING/ COVERING

- 350A POLYPROPYLENE BREATHER MEMBRANE
- Manufacturer: A Proctor Group Ltd.
 - Web: www.proctorgroup.com.
 - Email: technical@proctorgroup.com.
 - Product reference: Daltex Roofshield
 - Underlay head-lap (minimum):
 - Rafter pitch 12½°-14°: 225 mm (partially supported); 150 mm (fully supported).
 - Rafter pitch 15°-34°: 150 mm (partially supported); 100 mm (fully supported).
 - Rafter pitch 35° and over: 100 mm (partially supported); 75 mm (fully supported).
 - Fix in accordance with manufacturer's recommendations.
- 410A FIXING SHEETS GENERALLY
- Cut edges: Clean true lines.
 - Sheet orientation: Smooth surface uppermost and with exposed joints of side laps away from prevailing wind unless shown otherwise on drawings.
 - Verge sheets: Terminate outside edge with crown.
 - Sheet ends, laps and raking cut edges: Fully supported and with fixings at top of lap.
 - Fasteners: Drill holes. Position at regular intervals in straight lines, centred on support bearings.
 - Hook/ Crook bolt and non wing type fasteners: Position centrally within oversized drilled holes.
 - Fasteners torque: Sufficient to correctly compress washer.
 - Debris: Remove dust and other foreign matter before fixing sheets.
 - Completion: Check fixings to ensure watertightness and that sheets are secure.
 - Screw fixing: in accordance with manufacturer's recommendation

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015
B	E1 tender	3rd Aug 2015
C	E1 tender	27th May 2016

H62 Natural slating

To be read with Preliminaries/ General conditions.

IN GENERAL Refer to ATT003 - AMTRACK BROCHURE and ATT04 - BURLINGTON SLATE SPECIFICATION

TYPES OF SLATING

105A POLYPROPYLENE BREATHER MEMBRANE

- Manufacturer: A Proctor Group Ltd.
 - Web: www.proctorgroup.com.
 - Email: technical@proctorgroup.com.
 - Product reference: Daltex Roofshield
- Underlay head-lap (minimum):
 - Rafter pitch 12½°-14°: 225 mm (partially supported); 150 mm (fully supported).
 - Rafter pitch 15°-34°: 150 mm (partially supported); 100 mm (fully supported).
 - Rafter pitch 35° and over: 100 mm (partially supported); 75 mm (fully supported).
- Fix in accordance with manufacturer's recommendations

110A ROOF SLATING WITH COUNTERBATTENS To 3&4 William Street

- Substrate: Existing rafters for no. 3 William Street; new rafters to structural engineer's details for no. 4 William Street.
- Pitch: As existing roof of no. 3 William Street.
- Underlay: As clause 150A .
 - Recycled content: -.
 - Direction: Parallel to eaves.
 - Head-lap (minimum): As clause 150A.
- Counterbattens:
 - Size: 50x50mm.
 - Fixing: Submit proposal.
- Battens:
 - Size: 50 x 25 mm.
 - Fixing: 85 x 3.35mm sheradized ring shank nails.
- Slates:
 - Supplier: see below.
 - Product reference: see below.
 - Type: To match existing. For pricing purposes, allow for 'Heather Blue' slates by Welsh Slate. Submit slate samples for approval.
 - Size: Lengths and widths to match existing, otherwise 600 x 350mm.
 - Head-lap (minimum): 128mm.
 - Fixing: Two nails each slate.
- Accessories: Ventilators at eaves and ridge by Nicholson; lead covered ridge as drawn; Ventilator specified by M&E engineer.
- Other materials, fixing and workmanship requirements: see also attached 'BURLINGTONWESTMORLAND GREEN ROOFING SLATE SPECIFICATION' where applicable

SLATING GENERALLY

240 UNDERLAY

- Handling: Do not tear or puncture.
- Laying: Maintain consistent tautness.
- Vertical laps (minimum): 100 mm wide, coinciding with supports and securely fixed.
- Fixing: Galvanized steel, copper or aluminium 20 x 3 mm extra large clout head nails.
- Eaves: Where exposed, underlay must be BS 8747, Annex B, type 5U, or equivalent UV durable type.
- Penetrations: Use proprietary underlay seals or cut underlay to give a watertight fit around pipes and components.
- Ventilation paths: Do not obstruct.

ROOF SLATING EDGES/ JUNCTIONS/ FEATURES

305 GENERALLY

- Fittings and accessories: As recommended by slate supplier, do not improvise.
 - Exposed fittings and accessories: To match slate colour and finish.
- Cut slates: Cut only where necessary, to give straight, clean edges.
- Flashings: Fix with or immediately after slating. Form neatly.

325 FIRE SEPARATING WALLS

- Separating walls: Completely fill space between top of wall and underside of slates with mineral wool quilt to provide fire stopping.
- Boxed eaves: Completely seal air paths in plane of separating wall with wire reinforced mineral wool, not less than 50 mm thick, fixed to rafters and carefully cut to shape to provide fire stopping.

345A VENTILATED EAVES WITH INTEGRATED GRILLES/ TRAYS all eaves to 55-91 Knightbridge

- Fascia grilles and ventilator trays:
 - Manufacturer: Nicholson, PO Box 10943, London N12 9SJ Tel: 0845 0098 980, email: info@nicholsonsts.com.
Product reference: Airtrak - LB30.
 - Fix to carry underlay, form drip into gutter and provide free passage of air over insulation.
- Installation: as recommended by the manufacturer. Also refer to attached brochure.
- Include for timber fillet as necessary.
- Maintain min. ventilation gap of 25mm between the lowest batten and the supporting board for lead sheet below.

345B VENTILATED EAVES WITH INTEGRATED GRILLES/ TRAYS all eaves to 3&4 William Street

- Fascia grilles and ventilator trays:
 - Manufacturer: Nicholson, PO Box 10943, London N12 9SJ Tel: 0845 0098 980, email: info@nicholsonsts.com.
Product reference: Airtrak - LB20.
 - Fix to carry underlay, form drip into gutter and provide free passage of air over insulation.
- Installation: as recommended by the manufacturer, and as drawn. Also refer to attached brochure.
- Include for timber fillet/ block and lead flashing as necessary.
- Maintain min. ventilation gap of 25mm between the lowest batten and the supporting board for lead sheet below.

- 455A MORTAR BEDDED VERGES WITH NAILED UNDERCLOAK to internal elevation of BMU area between ridges at different heights
- Underlay: Carry over full width of verge.
 - Undercloak: Slates.
 - Position: Over underlay, level with underside of slating battens, sloping towards verge.
 - Projection: 40 mm beyond face of vertical cladding underneath. (TBC) Do not protrude to BMU area.
 - Fixing: Nails.
 - Slating battens: Carry over undercloak and finish 100 mm from verge edge.
 - Ventilated stainless steel apron flashing at junction with the vertical rainscreen below as spec H75 continuous from the flashing below ridge stones.
- 525A MITRED HIPS to all hips
- Underlay: Lay courses over hip.
 - Overlaps (minimum): 150 mm.
 - Hip slate fixing battens: 50 x 38mm.
 - Mitred slates: Cut extra wide slates and fix to form a straight, close mitred junction.
 - Metal soakers: zinc or code 4 lead to suit the courses must be inserted between successive courses to make the joints waterproof. Soakers are nailed to the battens and dressed down each roof slope with their bottom edge just covered by the slates above. Interleave with mitred slates. Fix by turning down over head of mitred slates.
- 615A VENTILATED LEAD LINED OPEN VALLEYS to all valleys
- Underlay: Cut to rake. Dress over tilting fillets and ventilation system to lap onto metal valley. Do not lay under metal.
 - Roof slates: Cut extra wide slates adjacent to valley to fit neatly.
 - Valley width: clear gutter width of 150 mm.
 - Eaves ventilator: as clause 345A
- 660 SIDE ABUTMENTS
- Underlay: Turn up not less than 100 mm at abutments.
 - Abutment slates: Cut as necessary. Fix close to abutments.
 - Soakers: Interleave with abutment slates. Fix by turning down over head of abutment slates.
- 675A TOP EDGE VENTILATED ABUTMENTS
- Underlay: Provide air gap at abutment as recommended by ventilator manufacturer.
 - Abutment ventilator:
 - Manufacturer: Nicholson, PO Box 10943, London N12 9SJ Tel: 0845 0098 980, email: info@nicholsonsts.com.
Product reference: Airtrak-VA200.
 - Fixing: As recommended by manufacturer; The ventilator is supplied flat with a pre holed tab which is bent on site to the required angle. The tab should be slightly under bent to ensure that the ventilator 'springs' down against the roof slates. Once it is fixed to the abutment wall, the ventilator is then covered with lead flashing material. The flashing is trimmed flush with the edge of the ventilator and secured with the unique Airtrak Clipfast™ system. This allows expansion of the flashing material and also retains it in position, preventing creep down the roof slope.
 - Maintain min. ventilation gap of 10mm between the top batten and the masonry wall

740A MORTAR BEDDED STONE RIDGES to 55-91 Knightsbridge

- Underlay: Lay courses over ridge.
 - Overlap (minimum): 150 mm.
- Ridge stones: To match existing natural stone ridge, submit samples for approval
 - Manufacturer: Submit proposals.
Product reference: Submit proposals.
 - Bedding: On hydraulic lime mortar, continuous to edges and solid to joints.
 - Fixing: Where rigid masonry walls support or abut ridge, secure ridge tiles within 900 mm of such walls to ridge boards or supplementary ridge battens with self-sealing non-ferrous fixings.
 - Gable end ridge tiles: Lead saddle under ridge. Fill ends with mortar and slips of tiles finished flush.
- Ridge terminals:
 - Manufacturer: Submit proposals.
Product reference: Submit proposals.

VERTICAL SLATING EDGES/ JUNCTIONS

910A BOTTOM EDGES

- Slating substrate work: Fix timber tilting fillet to support bottom course of slates in correct vertical plane. Fix flashing to tilting fillet.
- Underlay: Dress over flashing.
- Undercourse and bottom course slates: Fix with tails neatly aligned.
- Ventilation: as drawn, fix insect mesh

920 TOP EDGES

- Top slate courses: Fix under abutment and make weathertight with flashings dressed down not less than 150 mm.

930 SIDE ABUTMENTS

- Slating substrate work: Chase abutment wall and insert stepped flashing.
 - Flashing: Return not less than 75 mm behind slating, overlapping underlay and battens.
Turn back to form a vertical welt.
- Abutment slates: Cut and fix neatly.

960 JUNCTION WITH ROOF VERGES

- Slating substrate work: Fix additional slating batten parallel to and below verges.
- Course end slates: Splay cut slate and a half width slates to angle of verge rake. Fix to additional slating batten with cut edge parallel to and below verge.

H71
Lead sheet coverings/ flashings
Revision C

Section Revision History

No.	Purpose	
A	E1 tender	25th Jun 2015
B	E1 tender	27th May 2016
C	E1 tender	27th May 2016

H71 Lead sheet coverings/ flashings

To be read with Preliminaries/ General conditions.

REFER TO RGA REPAIR AND RECONSTRUCTION SPEC H71R

REFER TO ATT03 - AIRTRACK BROCHURE

REFER TO ATT07 - BLM BUILDING PAPER

TYPES OF LEADWORK

150A DORMER AT PARAPET LEVEL

- Main roof covering: Natural slate.
- Substrate: Segmental roof: curved 3 layers of 6mm thick (total 18mm) marine plywood glued and screwed together on rafters and studs
Other areas: as clause H71r/130.
 - Preparation: Not required.
- Underlay: As clause H71r/150.
- Type of lead: As clause H71r/160.
 - Thickness: As clause H71r/160.
- Pretreatment: Apply chalk slurry coat to underside of lead and allow to dry before laying, followed by chalk paste coat after bossing but before final fixing.
- Joints in top/ sill: Pedimental roof: Ridge rolls and common rolls as H71r
segmental roof: welted seams
Sill: welted seams.
- Joints in cheeks: Vertical welted seams.
- Ventilators:
Manufacturer: Nicholson, PO Box 10943, London N12 9SJ Tel: 0845 0098 980, email: info@nicholsonsts.com
Product code: eaves ventilators to be Airtrek EA; bottom of cheek ventilators to be Airtrek CL
Installation: as recommended by manufacturer. Also see attached Airtrak brochure

230A VALLEY GUTTER LINING TO SLATE/ TILE ROOFS (VENTILATED AT EAVES SIDE AS SPEC H62/345A)

- Underlay: As clause H71r/150.
- Type of lead: As clause H71r/160.
 - Thickness: As clause H71r/160.
- Pretreatment: Apply chalk slurry coat to underside of lead and allow to dry before laying, followed by chalk paste coat after bossing but before final fixing.
- Laying: Over and beyond tilting fillets.
- Lengths: Not more than 2000 mm.
 - Cross joints: Lapped not less than 200 mm.
- Fixing: Welt edges. Nail top edge of each sheet. Dress bottom end neatly into eaves gutter.
- Ridge: Lead saddle at ridge

250 WEATHERING TO DORMER CORNICES INCLUDING FINIALS

- Substrate: Timber.
- Underlay: As H71r/150.
- Type of lead: As H71r/160.
 - Thickness: As H71r/160.
- Joints: Welled.
 - Spacing: Not applicable.
- Edge details: See details.
- Fixing: As H71r/180.
- Accessories: Finials to be covered with lead, details to be agreed with Architect on site .

472A CHIMNEY FLASHINGS TO SLATE/ PLAIN TILE ROOFS

- Lead front apron (ventilated):
 - Thickness: As clause H71r/160.
 - Dimensions:
 - Length: Width of chimney plus not less than 150 mm underlap to each side flashing.
 - Upstand: Not less than 100 mm.
 - Cover to roof: Not less than 150 mm.
 - Fixing: Lead wedges into bed joint.
 - Ventilator:
 - Manufacturer: Nicholson, PO Box 10943, London N12 9SJ Tel: 0845 0098 980, email: info@nicholsonsts.com
 - Product code: eaves ventilators to be Airtrek VA150
 - Installation: as recommended by manufacturer. Also see attached Airtrak brochure
- Lead soakers: As clause H71r/570
 - Thickness: .
 - Dimensions:
 - Length: Slate/ tile gauge + lap + 25 mm.
 - Upstand: Not less than 75 mm.
 - Underlap: Not less than 100 mm.
- Lead step flashings:
 - Thickness: As clause H71r/160.
 - Dimensions:
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 100 mm.
 - Front end: Turn 75 mm around chimney over apron.
 - Cover: Overlap to soaker upstands of not less than 65 mm.
 - Fixing: Lead wedges at every course.
- Lead back gutter (ventilated at eaves side as spec H62/345A):
 - Thickness: As clause H71r/160.
 - Dimensions:
 - Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
 - Upstand: Not less than 100 mm.
 - Gutter sole: Not less than 150 mm.
 - Cover up roof: Not less than 225 mm.
- Lead back gutter cover flashing:
 - Thickness: As clause H71r/160.
 - Dimensions:
 - Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
 - Cover: Overlap to back gutter upstand of not less than 75 mm.
 - Fixing: Lead wedges into bed joint.

476A CHIMNEY AND PARTY WALL DAMP PROOF COURSE

- Position: Level with Top edge of front apron and back gutter.
- Lead:
 - Thickness: As clause H71r/160.
- Protection: Fully coated with high build bitumen based paint on surfaces to be embedded.
- Dimensions:
 - Chimney DPC: Plan area of chimney plus laps on perimeters: turned up 50 mm against stack in roof void, turned down 50mm over stack externally, through flue lining and turned up 25 mm all round internally.
 - Party wall DPC (TBC): Plan area of wall plus covering over vertical lead sheet on wall overwrapping min. 75mm. Allow for welded sleeves for coping stone fixings
- Laying: On a thin even bed of wet mortar.
 - Next layer of overlying construction: Bed on mortar without delay and finish joint neatly.

490 VERTICAL TILING/ SLATING BOTTOM EDGE FLASHINGS

- Lead:
 - Thickness: As clause H71r/160.
- Dimensions:
 - Lengths: Not more than 1500 mm.
 - End to end joints: Laps of not less than 100 mm.
 - Width: Adequate for underlap to underlay, dressing over tilting fillet, and welted drip or straight cut bottom edge.

H75

Stainless steel strip/ sheet coverings/ flashings

Revision B

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015
B	E1 tender	27th May 2016

H75 Stainless steel strip/ sheet coverings/ flashings

To be read with Preliminaries/ General conditions.

REFER TO ATT03 - AIRTRACK BROCHURE

TYPES OF STAINLESS STEEL WORK

- 460A PURPOSE MADE STAINLESS STEEL FLASHINGS To top and bottom of rainscreen around BMU area, and base of chimney within flat roof area
- Stainless steel:
 - Grade: 1.4401 (316).
 - Finish: Terner.
 - Thickness: 0.80 mm.
 - Dimensions:
 - Lengths: Not more than Where flashings are restrained at joints or by fixed clips the maximum length is 3 m. Where one edge is wedged and pointed into masonry the maximum length should not exceed 2.5 m..
 - End to end joints: Single lock welts.
 - Lap by min. 100mm over the water proofing layer below, finish min. 50mm clear of flat roof where applicable
 - Depth to suit site dimension to cover insulation and water proofing layers specified by others
 - Continuous under ridgestones (horizontal) and verges (pitched). Detail where the pitch changes to be agreed with Architect before manufacturing.
 - Fixing (TBC): Screws below rainscreen, wedged and pointed into chimney. Clips to bottom edge at welts and 450 mm centres.
 - Ventilator: Nicholson Airtrek CRA (TBC) to suit site condition, located at the top of rainscreen, installation as recommended by the manufacturer, brochure attached.
 - Provide shop drawing for Architect's approval

GENERAL REQUIREMENTS/ PREPARATORY WORK

- 510 WORKMANSHIP GENERALLY
- Fabrication and fixing: To provide a secure, free draining and weathertight installation.
 - Operatives: Trained in the application of stainless steel coverings/ flashings. Submit records of experience on request.
 - Preforming: Measure, mark, cut and form stainless steel prior to assembly wherever possible.
 - Marking out: Use scribes discreetly for marking out stainless steel. Do not use other sharp instruments.
 - Folding: With mechanical or manual presses to give straight, regular and tight bends, leaving panels free from ripples, kinks, buckling and cracks. Use hand tools only for folding details not able to be pressed.
 - Avoiding sharp edges: Fold under or remove as work proceeds.
 - Sealants: Do not use in joints to attain waterproofing.
 - Solder: Use only where specified.
 - Finished stainless steel work: Fully supported, adequately fixed to resist wind uplift and able to accommodate thermal movement without distortion or stress.
 - Protection: Prevent staining, discolouration and damage by subsequent works.

- 520 STAINLESS STEEL STRIP/ SHEET
- Standard: To BS EN 10088-2 and BS EN ISO 9445-1 or -2.
 - Identification: Stamped or labelled with grade, finish and thickness as specified.
 - Manufacturer: Submit proposals.
 - Product reference: Purpose made.
- 540 SOLDERING/ WELDING
- In situ soldering/ welding: Not permitted
- 610 SUITABILITY OF SUBSTRATES
- Condition: Dry and free of dust, debris, grease and other deleterious matter.
- 640 TIMBER FOR USE WITH STAINLESS STEEL WORK
- Quality: Planed, free from wane, splits, pitch pockets, decay and insect attack (ambrosia beetle excepted).
 - Moisture content: Not more than 22% at time of fixing and covering.
 - Preservative treatment: CCA as section Z12, and Wood Protection Association Commodity Specification C8.

FIXING

- 710 FIXINGS FOR CLIPS
- Nails to timber substrates: Stainless steel austenitic.
 - Shank type: Annular ringed or helical threaded.
 - Shank diameter: Not less than 2.65 mm.
 - Head: Flat.
 - Length: Not less than 25 mm or equal to substrate thickness.
 - Screws to concrete/ masonry substrates: Stainless steel (austenitic) to BS 1210, table 4.
 - Diameter: Not less than 3.45 mm.
 - Length: Not less than 25 mm.
 - Washers and plastic plugs: Compatible with screws.
 - Screws to composite metal decks: Self-tapping, as recommended by the deck and stainless steel manufacturer.
- 750 CLIPS FOR FLASHINGS/ CROSS JOINTS
- Material: Stainless steel of same grade and thickness as that being secured.
 - Dimensions:
 - Width: Not less than 50 mm.
 - Length: To suit detail.
 - Fixing: Secure each clip to substrate with two fixings not more than 50 mm from edge of strip/ sheet being fixed.
- 760 CONTINUOUS CLIPS
- Material: Stainless steel of same grade and thickness as that being secured, in lengths not exceeding 1.8 m.
 - Width: To suit detail.
 - Fixing: Fix to substrate at 200 mm centres. Welt edge of strip/ sheet being fixed to continuous clip and dress down.

770 WEDGE FIXING INTO JOINTS/ CHASES

- Joint/ Chase: Rake out to a depth of not less than 25 mm.
- Stainless steel covering/ flashing: Fold 25 mm into joint/ chase with a waterstop welted end.
- Fixing: With at least two stainless steel wedges to each piece of stainless steel sheet.
 - Spacing: Wedges at not more than 450 mm centres, and at every change of direction.
- Sealant: Submit proposals.
 - Application: As section Z22.

780 WEDGE FIXING INTO DAMP PROOF COURSE JOINTS

- Joint/ Chase: Rake/ cut out under damp proof course to a depth of not less than 25 mm.
- Stainless steel covering/ flashing: Fold 25 mm into joint with a waterstop welted end.
- Fixing: With at least two stainless steel wedges to each piece of stainless steel sheet.
 - Spacing: Wedges at maximum 450 mm centres, and at every change of direction.
- Sealant: Submit proposals.
 - Application: As section Z22.

790A SCREW FIXING

- Joint/ Chase: Rake out to a depth of not less than 25 mm where applicable.
- Stainless steel covering/ flashing: Fold into joint/ chase and up back face where applicable.
- Fixing: Into back face with stainless steel screws, washers and plastics plugs.
 - Spacing: Fixings at maximum 450 mm centres and at every change of direction.
- Sealant: Submit proposals.
 - Application: As section Z22.

JOINTING

815 FREE EDGE DETAILS

- Visible feature edges: Finished with 15 mm welts.

820 SOLDERING DETAILS

- Solder: As recommended by the stainless steel manufacturer and appropriate to the metal finish. Not less than 30% tin content.
- Flux: Acidic, as recommended by the stainless steel manufacturer. Thoroughly remove residues.
- Unstressed joints: Use unreinforced soldering where there is no risk of movement stresses.
 - Seams: Form neatly and consistently with not less than 10 mm overlap of clean stainless steel.
- Stressed joints: Use reinforced soldering where there is a risk of movement stresses.
 - Seams: Form neatly and consistently with not less than 30 mm overlap of clean stainless steel. Reinforce seams with 3 mm diameter copper rivets at close centres.
 - Protection to rivets: Cover exposed rivet heads with solder. Isolate rivets from substrate with underlay to prevent localised friction.

825 WELDING DETAILS

- Seams: Form neatly and consistently.
 - Height of joint before folding: Not less than 30 mm.
 - Overlap: 10 mm.

870 LAPLOCK WELT JOINTS

- Underlap: Fold 30 mm anticapillary welt at top edge of underlap and secure with clips, two per bay.
- Overlap: Welt bottom edge of overlap 30 mm and lay 175 mm over underlap. Secure overlap welt with continuous clip, 60 mm wide, soldered to underlap.

880 SINGLE LOCK WELT JOINTS

- Joint allowances: 100 mm overlap and 50 mm underlap.
- Underlap: Welt and secure with clips, two per bay.
- Overlap: Welt around underlap and clips and dress down.

890 DOUBLE LOCK WELT JOINTS

- Joint allowances: 90 mm overlap and 60 mm underlap.
- Underlap: Welt and secure with clips, one per bay.
- Overlap: Double welt around underlap and clips and dress down.

J42
Single layer polymeric sheet roof coverings
Revision B

Section Revision History

No.	Purpose	
A	E1 tender	27th May 2016
B	E1 tender	27th May 2016

J42 Single layer polymeric sheet roof coverings

To be read with Preliminaries/ General conditions.

REFER TO ATT08 - J42 ATTACHMENT - SARNAFIL

REFER TO ATT09 - J42 ATTACHMENT - HARMER MODULOCK

K10
Plasterboard dry linings/ partitions/ ceilings
Revision B

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015
B	E1 tender	3rd Aug 2015

K10 Plasterboard dry linings/ partitions/ ceilings

To be read with Preliminaries/ General conditions.

TYPES OF DRY LINING

- 205A LINING ON TIMBER to 55-91 Knightsbridge and 3&4 William Street, to sloping and flat ceiling, dormer cheeks, internal face of return wall to pavilions where indicated on drawings
- Manufacturer: British Gypsum.
 - Web: www.british-gypsum.com.
 - Email: bgtechnical.enquiries@bpb.com.
 - Product reference: Timber stud (Non Loadbearing and Loadbearing)
 - Metal resilient (acoustic) bars: Not required.
 - Insulation: As spec P10.
 - Linings:
 - Type: 2 x 12.5 mm Gyproc WallBoard.
 - Fixing: through insulation layer into timber rafters/ joists/ studwork, As recommended by manufacturer.
 - Finishing:
 - : Tape and skim coat plaster to manufacturer's recommendation.
 - Primer/ Sealer: Primed to suit paint finish specified by others.
 - Accessories: Rigid beads/ stops (TBC).
 - Other requirements: Continuous to the adjacent wall finish specified by others.

INSTALLATION

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

445 CEILINGS

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

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.

555 FIRE STOPPING AT PERIMETERS OF DRY LINING SYSTEMS

- Material: Tightly packed mineral wool or intumescent mastic/ sealant.
- Application: To perimeter abutments to provide a complete barrier to smoke and flame.

560 JOINTS BETWEEN BOARDS

- Tapered edged plasterboards:
 - Bound edges: Lightly butted.
 - Cut/ unbound edges: 3 mm gap.
- Square edged plasterboards: 3 mm gap.
- Square edged fibre reinforced gypsum boards: 5 mm gap.

565 VERTICAL JOINTS

- Joints: Centre on studs.
 - Partitions: Stagger joints on opposite sides of studs.
 - Two layer boarding: Stagger joints between layers.

570 HORIZONTAL JOINTS

- Surfaces exposed to view: Horizontal joints not permitted. Seek instructions where height of partition/ lining exceeds maximum available length of board.
- Two layer boarding: Stagger joints between layers by at least 600 mm.
- Edges of boards: Support using additional framing.
 - Two layer boarding: Support edges of outer layer.

610 FIXING PLASTERBOARD TO TIMBER

- Fixing to timber: Securely at the following centres (maximum):
 - Nails: 150 mm.
 - Screws to partitions/ wall linings: 300 mm. Reduce to 200 mm at external angles.
 - Screws to ceilings: 230 mm.
- Position of nails/ screws from edges of boards (minimum):
 - Bound edges: 10 mm.
 - Cut/ unbound edges: 13 mm.
- Position of nails/ screws from edges of timber supports (minimum): 6 mm.

FINISHING

650 LEVEL OF DRY LINING ACROSS JOINTS

- Sudden irregularities: Not permitted.
- Joint deviations: Measure from faces of adjacent boards using methods and straightedges (450 mm long with feet/ pads) to BS 8212, clause 3.3.5.
 - Tapered edge joints:
Permissible deviation (maximum) across joints when measured with feet resting on boards: 3 mm.
 - External angles:
Permissible deviation (maximum) for both faces: 4 mm.
 - Internal angles:
Permissible deviation (maximum) for both faces: 5 mm.

670 SEAMLESS JOINTING TO PLASTERBOARDS

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

680 SKIM COAT PLASTER FINISH

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

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.

K21

Wood strip/ board fine flooring/ linings

Section Revision History

No.	Purpose	
A	E1 tender	17th Aug 2015

K21 Wood strip/ board fine flooring/ linings

To be read with Preliminaries/ General conditions.

TYPES OF FLOORING/ LINING

110A WOOD FLOORING-NEW BOARDS OPTION facsimile rooms

- Manufacturer: Junckers
- Black Oak 20.5x185 solid plank
- Finish: Ultra Matt Lacquered
- Installation: fit direct onto Hutchinson Flooring Ltd New Era Acoustic Cradle system mounted. New Era levelling System S3 (construction height range 115mm - 145mm when using 22mm thick floor) with 48mm thick battens at 60mm cradle centres to achieve 142mm overall construction height to top of finish floor boards.
Test floor for residual moisture content of no more than 75%RH. Install layer of Junckers Sylvathene vapour check membrane before setting out the cradles to support the battens. Each cradle to be packed to a maximum of 20mm. Ensure that all packing pieces are glued or fixed to the cradle and batten. Insulation material is fitted between the cradles. Ensure that the battens when laid into the cradles do not touch any perimeter walls. Leave about a 30mm gap. Battens are laid with ends staggered and laid end to end. Install 20.5 min Junckers board over the battens.

111A WOOD FLOORING-SALVAGED FLOOR BOARDS OPTION facsimile rooms

- Strips/ Boards: Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the class/ grade specified). Planed all round.
 - Finished thickness: 20mm min.
 - Moisture content at time of fixing: 6%-9%.
 - Method of joining: secret nailing with 50mm oval lost hea nails.
- Finish: lacquer finish as M60r/300.
- Installation: fit direct onto Hutchinson Flooring Ltd New Era Acoustic Cradle system mounted. New Era levelling System S3 (construction height range 115mm - 145mm when using 22mm thick floor) with 48mm thick battens at 60mm cradle centres to achieve 142mm overall construction height to top of finish floor boards.
Install layer of Junckers Sylvathene vapour check membrane before setting out the cradles to support the battens. Each cradle to be packed to a maximum of 20mm. Ensure that all packing pieces are glued or fixed to the cradle and batten. Insulation material is fitted between the cradles. Ensure that the battens when laid into the cradles do not touch any perimeter walls. Leave about a 30mm gap. Battens are laid with ends staggered and laid end to end. Install 20mm thick min salvaged board over the battens.

GENERAL/ PREPARATION

210 WORKMANSHIP GENERALLY

- Moisture content of timber supports: 12-14%.
- Methods of fixing and fasteners: As section Z20 where not specified.
- Protection: Protect from dirt, stains and damage using suitable coverings and boards laid as the work proceeds.

220 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 installing strips/ boards: Maintained at levels approximating to those which will prevail after building is occupied.

260 DRYNESS OF CONCRETE/ SCREED SUBSTRATES FOR FLOORING

- Relative humidity above substrate when tested with a hygrometer to BS 8201, Appendix A (maximum): 75%.
 - Test points: All corners, around perimeter, and random points over area being tested.
- Drying aids: Turned off for not less than four days before testing.

FIXING/ FINISHING

310 VAPOUR CONTROL LAYER INSTALLATION

- Location: Immediately below Junckers Sylvathene .
- Installation:
 - Joints: Overlapped by minimum 150 mm and sealed with vapour resistant tape.
 - Treatment of membrane at perimeter of flooring and upstands: Turned up and sealed to top face of flooring using a method approved by the strip/ board manufacturer.
- Excess material: Trimmed off neatly after fixing skirtings/ cover beads.
- Condition of membrane before laying flooring: Clean and dry.

325 FLOORING BATTENS

- Quality of timber: Free from decay, insect attack (except ambrosia beetle damage) and with no knots wider than half the width of the section.
- Preservative treatment: As section Z12 and Wood Protection Association Commodity Specification C8.
 - Type/ Desired service life: 25 years.
- Moisture content at time of laying: 12–14%.

335 TREATED TIMBER

- Surfaces exposed by minor cutting and drilling: Treated with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

340 ACCESS PANELS

- Size and position: Agree before strips/ boards are fixed.
- Additional noggings/ dwangs (Scot), battens, etc: Provide and fix as necessary.

360 EXPANSION PROVISION

- Expansion gaps:
 - Edges of flooring: Parallel to lie of strips/ boards and as Manufacturer's recommendation mm wide.
 - Ends of flooring: 10 mm wide.
- Spacer blocks and debris: Removed before fixing skirtings/ cover fillets.
- Intermediate expansion/ movement joints: Formed as recommended by flooring manufacturer/ supplier.

L10
Windows/ Rooflights/ Screens/ Louvres
Revision B

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015
B	E1 tender	17th Aug 2015

L10 Windows/ Rooflights/ Screens/ Louvres

READ IN CONJUNCTION WITH RGA REPAIR SPECIFICATIONS

- L40r glazing repairs
- L41r leaded lights repairs
- Z10r joinery repairs
- Z11r metal work repairs

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.

120 SITE DIMENSIONS

- Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- Designated items: all new timber windows, new and facsimile replacements, and shopfront windows .

PRODUCTS

205 WINDOW MATERIALS SPECIFICATION

- Minimum BRE 'Green Guide to Specification Online' rating: A+.

251 WOOD WINDOWS - SLIDING SASH NEW AND FACSIMILE

- Standard: To BS 644.
- Manufacturer: A firm currently registered under a third party quality assurance scheme.
- Exposure category to BS 6375-1/ Design wind load: ??? Pa.
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Douglas fir.
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Preservative treatment: Organic solvent as section Z12 and WPA Commodity Specification C5; Desired service life 30 years.
- Finish as delivered: Primer and undercoat as section M60.
- Glazing details: glass to match existing windows retained and refurbished.
 - Beading: External.
- Ironmongery/ Accessories: Brass.
- Fixing: Built in with cramps as clause 780.

252A WOOD WINDOWS - UPPER DORMER FACADE JOINERY INCLUDING SASH WINDOW FACSIMILE

- Standard: To BS 644.
- Manufacturer: A firm currently registered under a third party quality assurance scheme.
- Exposure category to BS 6375-1/ Design wind load: ??? Pa.
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: In general Douglas fir, except window cill to be hardwood as table NA2, submit proposal for hardwood species.
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Preservative treatment: Organic solvent as section Z12 and WPA Commodity Specification C5; Desired service life 30 years.
- Finish as delivered: Primer and undercoat as section M60.
- Glazing details: glass to match existing windows retained and refurbished.
 - Beading: External.
- Ironmongery/ Accessories: Brass.
- Fixing: Built in with cramps as clause 780.
- Lead clad finials and pediment as drawn

255 WOOD WINDOWS - SHOPFRONTS knightsbridge

- Standard: To BS 644.
- Manufacturer: A firm currently registered under a third party quality assurance scheme.
- Exposure category to BS 6375-1/ Design wind load: 1600 Pa.
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: european oak.
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Preservative treatment: Organic solvent as section Z12 and WPA Commodity Specification C5; Desired service life 30 years.
- Finish as delivered: see M60r/335.
- Glazing details: Vision-Lite security laminated anti-reflective glass, thickness as scheduled.
 - Beading: Internal.
- Ironmongery/ Accessories: antique brass.
- Fixing: Built in with cramps as clause 780.

- 257 WOOD WINDOWS - SHOPFRONTS william street
- Standard: To BS 644.
 - Manufacturer: A firm currently registered under a third party quality assurance scheme.
 - Exposure category to BS 6375-1/ Design wind load: 1600 Pa.
 - Operation and strength characteristics: To BS 6375-2.
 - Timber: Generally to BS EN 942.
 - Species: Douglas fir.
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
 - Preservative treatment: Organic solvent as section Z12 and WPA Commodity Specification C5; Desired service life 30 years.
 - Finish as delivered: see M60r210/.
 - Glazing details: Vision-Lite security laminated anti-reflective glass, thickness as scheduled .
 - Beading: Internal .
 - Ironmongery/ Accessories: antique brass.
 - Fixing: Built in with cramps as clause 780.
- 316 STEEL WINDOWS SECONDARY GLAZING
- Standard: To BS 6510.
 - Material: Hot rolled carbon steel.
 - Window section: W30.
 - Exposure category to BS 6375-1/ Design wind load: 1600 Pa.
 - Type: hinged casement
 - Operation and strength characteristics: To BS 6375-2.
 - Finish as delivered: galvanised, polyester powder coated .
 - Glazing details: refer to window type drawings and window schedule .
 - Beading: External.
 - Ironmongery/ Accessories: weld on friction hinges and locking handle .
 - Fixing: Built in as clause 781.

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.
- 740 CORROSION PROTECTION
- Surfaces to be protected: Aluminium alloy components in contact with preservative treated timber.
 - Protective coating: Two coats of bitumen solution to BS 6949 or an approved mastic impregnated tape.
 - Timing of application: 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.

- 760 REPLACEMENT WINDOW INSTALLATION
- Standard: To BS 8213-4.
- 765 WINDOW INSTALLATION GENERALLY
- Installation: Into prepared openings.
 - Gap between frame edge and surrounding construction:
 - Minimum: 2mm.
 - Maximum: 6mm.
 - Distortion: Install windows without twist or diagonal racking.
- 780 FIXING OF WOOD FRAMES
- Standard: As section Z20.
 - Fasteners: 25 x 3 x 150 mm galvanized carbon steel frame cramps.
 - Spacing: When not predrilled or specified otherwise, position fasteners not more than 150 mm from ends of each jamb, adjacent to each hanging point of opening lights, and at maximum 450 mm centres.
- 781 FIXING OF STEEL FRAMES
- Standard: As section Z20.
 - Fasteners: 25 x 3 x 150 mm galvanized carbon steel frame cramps.
 - Spacing: When not predrilled or specified otherwise, position fasteners not less than 50 mm and not more than 190 mm from ends of each jamb, adjacent to each hanging point of opening lights and at maximum 900 mm centres.
- 810 SEALANT JOINTS
- Sealant:
 - Manufacturer: Submit proposals.
 - Product reference: Submit proposals.
 - Colour: tba.
 - Application: As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile.
- 820 IRONMONGERY
- Fixing: Assemble and fix carefully and accurately using fasteners with matching finish supplied by ironmongery manufacturer. Do not damage ironmongery and adjacent surfaces.
 - Checking/ Adjusting/ Lubricating: Carry out at completion and ensure correct functioning.

Section Revision History

No.	Purpose	
A	E1 tender	14th Aug 2015

L20 Doors/ shutters/ hatches

To be read with Preliminaries/ General conditions.

GENERAL

110 EVIDENCE OF PERFORMANCE

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

112 TIMBER PROCUREMENT

- Timber (including timber for wood-based products): Obtained from well-managed forests and/ or plantations in accordance with:
 - The laws governing forest management in the producer country or countries.
 - International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- Documentation: Provide either:
 - Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
- Certification scheme: a CPET Category A evidence scheme .
 - Other evidence: None.

115 FIRE RESISTING DOORS/ DOORSETS/ ASSEMBLIES

- Evidence of fire performance: Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ 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. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.

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: doors D5-01, D73-01, W03-01B.

PRODUCTS

270 WOOD DOORS external doors D5-01, D73-01

- Materials: Generally to BS EN 942.
 - Species: english oak.
 - Appearance class: J30.
- Panels: solid oak fielded.
- Assembly:
 - Adhesive: WBP to manufacturer's choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
- Preservative treatment: as M60r/335.
- Moisture content on delivery: 13-19%.
- Finish as delivered: Full stain system, as M60r/335.
- Glazing/ Infill details: Clear single glazing Vision-Lite security laminated anti-reflective glass, 8mm thick.
 - Manifestation: Not applicable.
 - Beading: Internal.
- Other requirements: perimeter seals for weatherproofing.

271A WOOD DOORS external door W3-01B

- Materials: Generally to BS EN 942.
 - Species: Douglas Fir.
 - Appearance class: J30.
- Panels: solid Douglas Fir fielded.
- Assembly:
 - Adhesive: WBP to manufacturer's choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
- Preservative treatment: as M60r/210.
- Moisture content on delivery: 13-19%.
- Finish as delivered: prepared and primed.
- Glazing/ Infill details: Clear single glazing Vision-Lite security laminated anti-reflective glass, 8mm thick.
 - Manifestation: Not applicable.
 - Beading: Internal.
- Other requirements: perimeter seals for weatherproofing.

275A WOOD DOORS facsimile offices internal doors

- Materials: Generally to BS EN 942.
 - Species: Douglas Fir.
 - Appearance class: J30.
- Panels: solid Douglas Fir fielded.
- Assembly:
 - Adhesive: WBP to manufacturer's choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
- Preservative treatment: as M60r/200.
- Moisture content on delivery: 9-13%.
- Finish as delivered: prepared and primed.
- Glazing/ Infill details: Not applicable.
 - Manifestation: Not applicable.
 - Beading: Not required.
- Other requirements: perimeter seals for fire and smoke resistance; allow for acoustic seals to acoustic consultant's requirements.

EXECUTION

710 PROTECTION OF COMPONENTS

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

730 PRIMING/ SEALING

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

760 BUILDING IN

- General: Not permitted unless indicated on drawings.

770 DAMP PROOF COURSES ASSOCIATED WITH BUILT IN WOOD FRAMES

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

790 FIXING OF WOOD FRAMES

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

809 FIRE RESISTING/ SMOKE CONTROL DOORS/ DOORSETS/ ROLLER SHUTTERS/ CURTAINS

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

830 FIXING IRONMONGERY GENERALLY

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

840 FIXING IRONMONGERY TO FIRE RESISTING DOOR ASSEMBLIES

- General: All items fixed in accordance with door leaf manufacturer's recommendations ensuring that integrity of the assembly, as established by testing, is not compromised.
- Holes for through fixings and components: Accurately cut.
 - Clearances: Not more than 8 mm unless protected by intumescent paste or similar.
 - Lock/ Latch cases for fire 60 doors requiring ≥ 60 minutes integrity performance: Coated with intumescent paint or paste before installation.

850 LOCATION OF HINGES

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

Stairs/ ladders/ walkways/ handrails/ balustrades

Section Revision History

No.	Purpose	
A	E1 tender	14th Aug 2015

L30 Stairs/ ladders/ walkways/ handrails/ balustrades

To be read with Preliminaries/ General conditions.

PRELIMINARY INFORMATION/ REQUIREMENTS

- 107 COMPLETION OF DESIGN of facsimile stairs
- Requirement: Complete the detailed design to satisfy specified performance criteria and coordinate with the detailed design of related and adjacent work.
 - Standard: BS5395.
 - Structural requirements: As section B50.
 - Additional requirements: None.
 - Design and production information: fabrication drawings showing fixings between units, anchorages to supporting structure, joint details, formation of upstands and lifting details. .
 - Timing of submissions: As Preliminaries section A31.
- 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.
 - Certification scheme: as CPET recommendations.
 - Other evidence: None.
- 130 SITE DIMENSIONS
- Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
 - Designated items: staircase.

COMPONENTS

- 570 PURPOSE MADE HANDRAILS to match existing handrail
- Component material, grade and finish as delivered:
 - Handrails: hardwood as existing handrail.
 - Brackets: steel brackets fixed to newel at winders, allow for 3 no. at each set of winders .
 - Workmanship:
 - Joinery: Z10r.
 - Metalwork: Z11r.
 - Other requirements: None.
 - Fixing: fixed to existing salvaged balusters.
 - Centres: as existing detail.

- 571A PURPOSE MADE HANDRAILS new wall handrail
- Component material, grade and finish as delivered:
 - Handrails: 50mm diameter bronze ref BHR2 satin polished.
 - Brackets: bronze awall brackets.
 - Workmanship:
 - Joinery: Z10r.
 - Metalwork: Z11r.
 - Other requirements: None.
 - Fixing: Anchor fixed to concrete.
 - Centres: at 900mm centres max.

INSTALLATION

- 610 MOISTURE CONTENT
- Temperature and humidity: Monitor and control internal conditions to achieve specified moisture content in wood components at time of installation.
- 620 PRIMING/SEALING/PAINTING
- Surfaces inaccessible after assembly/installation: Before fixing components, apply full protective/decorative treatment/coating system.
- 630 CORROSION PROTECTION OF DISSIMILAR MATERIALS
- Components/ substrates/ fasteners of dissimilar materials: Isolate using washers/ sleeves or other suitable means to separate materials to avoid corrosion and/ or staining.
- 640 INSTALLATION GENERALLY
- Fasteners and methods of fixing: To section Z20.
 - Structural members: Do not modify, cut, notch or make holes in structural members, except as indicated on drawings.
 - Temporary support: Do not use stairs, walkways or balustrades as temporary support or strutting for other work.
 - Applied features (finishes, inserts, nosings and the like): Substrates to be even, dry, sound and free from contaminants. Make good substrate surfaces and prepare/ prime as applied feature manufacturer's recommendations before application.

COMPLETION

L40
General glazing

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015

L40 General glazing

READ IN CONJUNCTION WITH RGA REPAIR SPECIFICATION

- L40r Leded Lights and Glazing Repairs

To be read with Preliminaries/ General conditions.

GENERAL REQUIREMENTS

130 REMOVAL OF GLASS/ PLASTICS FOR REUSE

- Existing glass/ plastics and glazing compound, beads, etc: Remove carefully, avoiding damage to frame, to leave clean, smooth rebates free from obstructions and debris.
- Deterioration of frame/ surround: Submit report on defects revealed by removal of glazing.
 - Affected areas: Do not reglaze until instructed.
- Reusable materials: Clean glass/ plastics, beads and other components that are to be reused.

150 WORKMANSHIP GENERALLY

- Glazing generally: To BS 6262.
- Integrity: Glazing must be wind and watertight under all conditions with full allowance made for deflections and other movements.
- Dimensional tolerances: Panes/ sheets to be within ± 2 mm of specified dimensions.
- Materials:
 - Compatibility: Glass/ plastics, surround materials, sealers, primers and paints/ clear finishes to be used together to be compatible. Avoid contact between glazing panes/ units and alkaline materials such as cement and lime.
 - Protection: Keep materials dry until fixed. Protect insulating glass units and plastics glazing sheets from the sun and other heat sources.

152 PREPARATION

- Surrounds, rebates, grooves and beads: Clean and prepare before installing glazing.

155 GLASS GENERALLY

- Standards: To BS 952 and relevant parts of:
 - BS EN 572 for basic soda lime silicate glass.
 - BS EN 1096 for coated glass.
 - BS EN 1748-1 for borosilicate glass.
 - BS EN 1748-2 for ceramic glass.
 - BS EN 1863 for heat strengthened soda lime silicate glass.
 - BS EN 12150 for thermally toughened soda lime silicate safety glass.
 - BS EN 12337 for chemically strengthened soda lime silicate glass.
 - BS EN 13024 for thermally toughened borosilicate safety glass.
 - BS EN ISO 12543 for laminated glass and laminated safety glass.
- Panes/ sheets: Clean and free from obvious scratches, bubbles, cracks, rippling, dimples and other defects.
 - Edges: Generally undamaged. Shells and chips not more than 2 mm deep and extending not more than 5 mm across the surface are acceptable if ground out.

181 BEAD FIXING WITH SCREWS

- Screw spacing: Regular at maximum 225 mm centres, and within 75 mm of each corner.

TYPES OF GLAZING

- 210 PUTTY FRONTED SINGLE GLAZING to new and facsimile sliding sash windows
- Pane material: to match glass on existing windows retained and refurbished - see L40r .
 - Surround: Softwood .
 - Sealer: Paint primer .
 - Type of putty: Linseed oil .
 - Glass installation:
 - Glass: Located centrally in surround using setting and location blocks, and secured with glazing sprigs/ cleats/ clips at 300 mm centres.
 - Finished thickness of back bedding after inserting glazing (minimum): 1.5 mm.
 - Front putty: Finished to a smooth, neat triangular profile stopping 2 mm short of sight line. Surface lightly brushed to seal putty to glass and left smooth with no brush marks.
 - Sealing putty: Seal as soon as sufficiently hard but not within 7 days of glazing. Within 28 days apply either:
 - The full final finish, suitably protected until completion and cleaned down and made good as necessary, or
 - Two coats of primer applied locally to the compound, to be followed nearer completion with the full specified finish.
 - Opening lights: Keep in closed position until putty has set sufficiently to prevent displacement of glazing when opened.
- 380 BEAD FIXED INSULATING GLASS UNITS to William Street rear windows
- Pane material: 24mm insulating glass units to BS EN 1279 and Kitemark certified .
 - Inner pane: 6mm clear toughened glass .
 - Outer pane: 6mm clear toughened glass .
 - Spacer: 12mm anodized aluminium, colour: Black .
 - Perimeter taping: Do not use.
 - Surround/ bead: Softwood frame with hardwood beads .
 - Preparation: Paint primer .
 - Bead location: Outside .
 - Bead fixing: stainless steel woodscrews .
 - Glazing system:
 - Inner sealant: Low permeability sealant .
 - Outer sealant: Moisture vapour permeable sealant .
 - Glazing installation:
 - Insulating unit: Located centrally in surround using setting and location blocks and distance pieces.
 - Inner sealant: Applied to full height of rebate.
 - Outer sealant: Applied to fill edge clearance void and space between unit and beads up to sight line.
 - Finished thickness of back and front bedding after inserting glazing (minimum): 3 mm.
 - Beads: Bedded on outer sealant and fixed securely.
 - Excess sealant: Trimmed to a smooth chamfer.
- 630 MANIFESTATION to Knightsbrisse shopfronts
- Design: tba.
 - Art work: Supplied by design.
 - Media: Full size drawing.
 - Technique: Applied film.

M10
Cement based levelling/ wearing screeds

Section Revision History

No.	Purpose	
-	E1 tender	27th May 2016

M10 Cement based levelling/ wearing screeds

To be read with Preliminaries/General conditions.

REFER TO ATT10 - M10 ATTACHMENT - RONACRETE

M20
Plastered/ Rendered/ Roughcast coatings

Section Revision History

No.	Purpose	
A	E1 tender	14th Aug 2015

M20 Plastered/ Rendered/ Roughcast coatings

To be read with Preliminaries/ General conditions.

TYPES OF COATING

- 210 LIGHTWEIGHT GYPSUM PLASTER facsimile staircase
- Substrate: Concrete blockwork and in-situ concrete.
 - Preparation: Bonding agent recommended by plaster manufacturer.
 - Manufacturer: Contractor's choice.
 - Undercoats: To BS EN 13279-1.
 - Product reference: Contractor's choice.
 - Thickness (excluding dubbing out and keys): Two coat 13 mm overall.
 - Final coat: Finish plaster to BS EN 13279-1, class B.
 - Product reference: Contractor's choice.
 - Thickness: 2-3 mm.
 - Finish: Smooth.
 - Accessories: Cornice moulding.

MATERIALS AND MAKING OF MORTAR

- 497 COLD WEATHER
- General: Do not use frozen materials or apply coatings on frozen or frost bound substrates.
 - External work: Avoid when air temperature is at or below 5°C and falling or below 3°C and rising. Maintain temperature of work above freezing until coatings have fully hardened.
 - Internal work: Take precautions to enable internal coating work to proceed without damage when air temperature is below 3°C.

PREPARING SUBSTRATES

- 510 SUITABILITY OF SUBSTRATES
- Soundness: Free from loose areas and significant cracks and gaps.
 - Cutting, chasing, making good, fixing of conduits and services outlets and the like: Completed.
 - Tolerances: Permitting specified flatness/ regularity of finished coatings.
 - Cleanliness: Free from dirt, dust, efflorescence and mould, and other contaminants incompatible with coatings.
- 646 CRACK CONTROL AT JUNCTIONS BETWEEN DISSIMILAR SOLID SUBSTRATES
- Locations: Where defined movement joints are not required. Where dissimilar solid substrates materials are in same plane and rigidly bonded or tied together.
 - Crack control materials:
 - Isolating layer: Building paper to BS 1521.
 - Metal lathing: Internally: Galvanized steel plain expanded metal with spacers .
 - Installation: Fix metal lathing over isolating layer. Stagger fixings along both edges of lathing.
 - Width of installation over single junctions:
 - Isolating layer: 150 mm.
 - Lathing: 300 mm.
 - Width of installation across face of dissimilar substrates material (column, beam, etc. with face width not greater than 450 mm):
 - Isolating layer: 25 mm (minimum) beyond junctions with adjacent substrates.
 - Lathing: 100 mm (minimum) beyond edges of isolating layer.

MOULDINGS/ DECORATIVE PLASTERWORK

INTERNAL PLASTERING

710 APPLICATION GENERALLY

- Application of coatings: Firmly and in one continuous operation between angles and joints. Achieve good adhesion.
- Appearance of finished surfaces: Even and consistent. Free from rippling, hollows, ridges, cracks and crazing.
 - Accuracy: Finish to a true plane, to correct line and level, with angles and corners to a right angle unless specified otherwise, and with walls and reveals plumb and square.
- Drying out: Prevent excessively rapid or localised drying out.

715 FLATNESS/ SURFACE REGULARITY

- Sudden irregularities: Not permitted.
- Deviation of plaster surface: Measure from underside of a straight edge placed anywhere on surface.
 - Permissible deviation (maximum) for plaster not less than 13 mm thick: 3 mm in any consecutive length of 1800 mm.

720 DUBBING OUT

- General: Correct substrate inaccuracies.
- New smooth, dense concrete and similar surfaces: Dubbing out prohibited unless total plaster thickness is within range recommended by plaster manufacturer.
- Thickness of any one coat (maximum): 10 mm.
- Mix: As undercoat.
- Application: Achieve firm bond. Allow each coat to set sufficiently before the next is applied. Cross scratch surface of each coat.

778 WOOD FLOAT FINISH

- Appearance: An even overall texture. Finish with a dry wood float as soon as wet sheen has disappeared.

M50

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

Section Revision History

No.	Purpose	
A	tender	18th Dec 2015

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

To be read with Preliminaries/ General conditions.

TYPES OF COVERING

175 STAIR RUNNER

- Location: Facsimile Stair including landings and first and second floor corridors.
- Base: New concrete stair.
- Carpet underlay to BS 5808 and BS EN 14499:
 - Manufacturer: [Ball & Young Ltd].
 - Product reference: [Cloud 9 Flame Retardant 8].
- Underlay adhesive (and primer if recommended by manufacturer): [F Ball and Co Ltd Styccobond F40 applied to form peelable bond].
- Carpet:
 - Manufacturer: Brintons - TBC.
 - Product reference: Burgundy point.
 - Type: Axminster.
 - BS EN 1307 classification:
 - Category: Type 2.
 - Level of use class: 31.
 - Luxury rating class: To manufacturer specification.
 - Recycled content: None permitted.
 - Width: nom. 910 mm.
- Carpet adhesive (and primer if recommended by manufacturer): [F Ball and Co Ltd Styccobond F3].
- Accessories: Use existing brass rods and fixings, allow for new if necessary to match existing.
- Other requirements: [interlocking edge detail throughout except at ground floor level].

176 STAIR RUNNER

- Location: Stair, 4 William Street including landings.
- Base: Existing timber.
- Carpet underlay to BS 5808 and BS EN 14499:
 - Manufacturer: [Ball & Young Ltd].
 - Product reference: [Cloud 9 Flame Retardant 8].
- Underlay adhesive (and primer if recommended by manufacturer): [F Ball and Co Ltd Styccobond F40 applied to form peelable bond].
- Carpet:
 - Manufacturer: Brintons - TBC.
 - Product reference: Burgundy point.
 - Type: Axminster.
 - BS EN 1307 classification:
 - Category: Type 2.
 - Level of use class: 31.
 - Luxury rating class: To manufacturer specification.
 - Recycled content: None permitted.
 - Width: nom. 910 mm.
- Carpet adhesive (and primer if recommended by manufacturer): [F Ball and Co Ltd Styccobond F3].
- Accessories: New brass rods and fixings.
- Other requirements: [interlocking edge detail except at ground floor level (wall to wall)].

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.

230 CONTROL SAMPLES

- General: Complete areas of finished work in approved locations as follows, and obtain approval of appearance before proceeding: Facsimile Stair .

250 LAYOUT - ROLL MATERIALS

- Setting out of seams: Agree setting out for sheeting types M50/ 175 and 176 .

251 LAYOUT - SEAMS IN ROLL MATERIALS

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

252 LAYOUT - PATTERNS

- Setting out: Agree setting out for covering types M50/ 175 and 176 .

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.

420 EXISTING BASES

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

430 NEW WET LAID BASES

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

440 SUBSTRATES TO RECEIVE THIN COVERINGS

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

520 TIMBER BOARDING/ STRIP FLOORING

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

LAYING COVERINGS

620 COLOUR CONSISTENCY

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

650 SEAMS

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

670 BORDERS/ AND FEATURE STRIPS IN SHEET MATERIAL

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

M60
Painting/ clear finishing

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015

M60 Painting/ clear finishing

To be read with Preliminaries/ General conditions.

READ IN CONJUNCTION WITH RGA REPAIR SPECIFICATIONS

- M60r painting and decorating
- Z10r joinery repairs
- Z11r metal work repairs

N10
General fixtures/ furnishings/ equipment

Section Revision History

No.	Purpose	
A	tender	18th Dec 2015

N10 General fixtures/ furnishings/ equipment

To be read with Preliminaries/General conditions.

PRODUCTS

- 120 PURPOSE MADE Backlit Shop Sign
- Manufacturer: TBC.
 - Metal: Lightweight aluminium carcass with bronze outer lining to frame.
 - Fixings: Hollow bronze support rods welded to bronze plates and fixed to masonry .
 - Metalwork materials and workmanship: As section Z11.
 - Other requirements: The hollow support rods to accommodate electrical cabling.
- 290 MATWELL FRAMES to facsimile stairs and 4 William Street stairs
- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
 - Material: Stainless steel .
 - Finish: polished.
 - Size: as drawings.
 - Angles: 50 x 50 x 5 mm thick tbc.
 - Corners: Mitred and welded.
 - Angle size: to suit entrance mat for flush finish.
- 300 ENTRANCE MATTING to facsimile stairs and 4 William Street stairs
- Manufacturer: 3M Nomad .
 - Product reference: Optima 9920 .
 - Colour: as supplied .
 - Size: 22mm .

EXECUTION

- 720 INSTALLATION GENERALLY
- General: Backlit shop signs.
 - Fixing and fasteners: As section Z20.
 - Services: As Engineering Services specification .

COMPLETION

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

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015
B	E1 tender	3rd Aug 2015
C	E1 tender	17th Mar 2016
D	E1 tender	27th May 2016

P10 Sundry insulation/ proofing work

SUNDRY INSULATION/ PROOFING WORK

To be read with Preliminaries/ General conditions

REFER TO ATT02 - CELOTEX

TYPES OF INSULATION

125A INSULATION BETWEEN RAFTERS/ JOISTS/ STUDWORK to 55-91 Knightsbridge

- Manufacturer: Celotex, Web: www.celotex.co.uk.
 - Email: info@celotex.co.uk.
 - Product reference: FR5000.
- Material: Not applicable.
- Recycled content: Not applicable.
- Thickness: To suit thickness as shown in drawing .
- Installation requirements:
 - Installation standard: As recommended by manufacturer.
 - Joints: Butted, no gaps.
 - Insulation at perimeter: Carried over wall plates.
 - Eaves ventilation: Unobstructed.
 - Service holes: Sealed, and debris removed before laying insulation.
 - Water cistern platforms: Not applicable.

125B INSULATION BETWEEN RAFTERS/ JOISTS/ STUDWORK to 3&4 William Street

- Manufacturer: Celotex, Web: www.celotex.co.uk.
 - Email: info@celotex.co.uk.
 - Product reference: GA4000.
- Material: Not applicable.
- Recycled content: Not applicable.
- Thickness: To suit thickness as shown in drawing .
- Installation requirements:
 - Installation standard: As recommended by manufacturer.
 - Joints: Butted, no gaps.
 - Insulation at perimeter: Carried over wall plates.
 - Eaves ventilation: Unobstructed.
 - Service holes: Sealed, and debris removed before laying insulation.
 - Water cistern platforms: Not applicable.

125C INSULATION BETWEEN RAFTERS/ JOISTS/ STUDWORK to 3&4 William Street

- Manufacturer: Celotex, Web: www.celotex.co.uk.
 - Email: info@celotex.co.uk.
 - Product reference: TB4000.
- Material: Not applicable.
- Recycled content: Not applicable.
- Thickness: To suit thickness as shown in drawing .
- Installation requirements:
 - Installation standard: As recommended by manufacturer.
 - Joints: Butted, no gaps.
 - Insulation at perimeter: Carried over wall plates.
 - Eaves ventilation: Unobstructed.
 - Service holes: Sealed, and debris removed before laying insulation.
 - Water cistern platforms: Not applicable.

125D INSULATION BETWEEN RAFTERS/ JOISTS/ STUDWORK to 3&4 William Street

- Manufacturer: ROCKWOOL Ltd
www.rockwool.co.uk
email: info@rockwool.com.
 - Product reference: RWA45.
- Material: Not applicable.
- Recycled content: Not applicable.
- Thickness: To suit thickness as shown in drawing .
- Installation requirements:
 - Installation standard: As recommended by manufacturer.
 - Joints: Butted, no gaps.
 - Insulation at perimeter: Carried over wall plates.
 - Eaves ventilation: Unobstructed.
 - Service holes: Sealed, and debris removed before laying insulation.
 - Water cistern platforms: Not applicable.

135B INSULATION LAID ACROSS CEILING TIES/ JOISTS to 3&4 William Street

- Manufacturer: Celotex, Web: www.celotex.co.uk.
 - Email: info@celotex.co.uk.
 - Product reference: Rockwool roll - TBC following opening up work .
- Material: Not applicable.
- Recycled content: Not applicable.
- Thickness: as shown in the drawings.
- Installation requirements:
 - Installation standard: As recommended by manufacturer.
 - Insulation widths: Widest practical.
 - Laid direction: At right angles to ties/ joists.
 - Joints: Butted, no gaps.
 - Insulation: Fitted neatly around rafter ends and extended over wall plates.
 - Eaves ventilation: Unobstructed.
 - Service holes: Sealed, debris removed before laying insulation.
 - Water cistern platforms: Not applicable.

212A INSULATION FIXED ACROSS INNER FACE OF RAFTERS/ STUD WALLING to 55-91 Knightsbridge

- Manufacturer: Celotex.
 - Product reference: TB4000.
- Material: Not applicable.
- Thickness: 25mm.
- Number of layers: One.
- Installation requirements:
 - Fixing: Secure to inner face of studs, with vapour control facing (if provided) on warm side.
 - Fasteners: As recommended by manufacturer.
 - Fixing centres: As recommended by manufacturer.
 - Joints: Butt, as recommended by insulation manufacturer, with no gaps. Seal with vapour impermeable adhesive tape to create vapour barrier.

212B INSULATION FIXED ACROSS INNER FACE OF RAFTERS to 3&4 William Street

- Manufacturer: Celotex.
 - Product reference: GA4000.
- Material: Not applicable.
- Thickness: as shown in drawing.
- Number of layers: One.
- Installation requirements:
 - Fixing: Secure to inner face of studs, with vapour control facing (if provided) on warm side.
 - Fasteners: As recommended by manufacturer.
 - Fixing centres: As recommended by manufacturer.
 - Joints: Butt, as recommended by insulation manufacturer, with no gaps. Seal with vapour impermeable adhesive tape to create vapour barrier.

320A BREATHER MEMBRANE TO RETURN WALL TIMBER INNER LEAVES TO PAVILIONS

- Manufacturer: A Proctor Group Ltd.
 - Web: www.proctorgroup.com.
 - Email: technical@proctorgroup.com.
 - Product reference: Frameshield 100
- Colour: Grey.
- Width: 1400 mm.

Z10
Purpose made joinery
Revision B

Section Revision History

No.	Purpose	
A	E1 tender	23rd Jun 2015
B	E1 tender	27th May 2016

Z10 Purpose made joinery

REFER TO RGA REPAIR SPECIFICATION:

- Z10r joinery repairs

REFER TO ATT06 - JUNCKERS FLOORING

To be read with Preliminaries/ General conditions.

2A FABRICATION

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

110 FABRICATION

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

120 CROSS SECTION DIMENSIONS OF TIMBER

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

130 PRESERVATIVE TREATED WOOD

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

140 MOISTURE CONTENT

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

250 FINISHING

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

Section Revision History

No.	Purpose	
A	E1 tender	26th Jun 2015

Z21 Mortars

To be read with Preliminaries/ General conditions.

FOR ROOF AND CHIMNEY RECONSTRUCTION WORKS Refer to RGA repair specification Z21r