Z10 PURPOSE MADE JOINERY

LOCATION

* Refer to Koha Architects drawings : New Kitchenette to G04. Allow for Howdens base units and carcassing with corian worktop with stainless steel sink. Cupboard facings to be confirmed. Worktop to be adjustable in height for accessible purposes (extendable tap hoses). Splashback connected to worktop and to adjust with worktop. Further drawings to be provided

Z10/10 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. Heads of countersunk screws sunk at least 2 mm below surfaces visible in completed work.

- Adhesives: Compatible with wood preservatives applied and end uses of timber.

Z10/20 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.

- Hardwood sections: To BS EN 1313-2.

Z10/30 PRESERVATIVE TREATED WOOD

- Cutting and machining: Completed as far as possible before treatment.

- Extensively processed timber: Retreat timber sawn lengthways, thicknessed, planed, ploughed, etc.

- Surfaces exposed by minor cutting and/ or drilling: Treat as recommended by main treatment solution manufacturer.

Z10/40 MOISTURE CONTENT

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

Z10/50 FINISHING

- Surfaces: Smooth, even and suitable to receive finishes.

- Arrises: Eased unless shown otherwise on drawings.

- End grain in external components: Sealed with primer or sealer as section M60 and allowed to dry before assembly.

Z11 PURPOSE MADE METALWORK

Z11/31 METAL PRODUCTS: New Cast Aluminium half-round Gutters and Downpipes in Heritage Black by Alumasc or equal approved (subject to budget and condition upon inspection). Samples to be obtained for sign off.

- Grades of metals, section dimensions and properties: To the appropriate British Standards and suitable for the purpose.

- Fasteners: Generally, same metal as component, with matching coating and finish.

FABRICATION

Z11/50 PREPARATION FOR APPLICATION OF COATINGS

- General: Complete fabrication, and drill fixing holes before applying coatings.

- Paint, grease, flux, rust, burrs and sharp arrises: Remove.

Z11/51 FABRICATION GENERALLY

- Contact between dissimilar metals in components: Avoid.

- Finished components: Rigid and free from distortion, cracks, burrs and sharp arrises.

- Moving parts: Free moving without binding.

- Corner junctions of identical sections: Mitre.

- Prefinished metals: Do not damage or alter appearance of finish.

Z11/52 COLD FORMED WORK

- Profiles: Accurate, with straight arrises.

Z11/53 WELDING AND BRAZING GENERALLY

- Surfaces to be joined: Clean thoroughly.

- Tack welds: Use only for temporary attachment.

- Joints: Fully bond parent and filler metal throughout with no inclusions, holes, porosity or cracks.

- Surfaces of materials that will be self-finished and visible in completed work: Protect from weld spatter.

- Flux residue, slag and weld spatter: Remove.

Z11/54 WELDING OF STEEL

- Method: Metal arc welding to BS EN 1011-1 and -2.

Z11/56 FINISHING WELDED AND BRAZED JOINTS VISIBLE IN COMPLETE WORK

- Butt joints: Smooth, and flush with adjacent surfaces.

- Fillet joints: Neat.

- Grinding: Grind smooth where indicated on drawings.

Z11/58 GALVANIZING

- Standard: To BS EN ISO 1461.

- Vent and drain holes:

- Location: Where noted in each section

- Sealing after galvanizing: Required. Submit proposals.

Z12 PRESERVATIVE/ FIRE RETARDANT TREATMENT

Z12/10 TREATMENT APPLICATION

- Timing: After cutting and machining timber, and before assembling components.

- Processor: Licensed by manufacturer of specified treatment solution.

- Certification: For each batch of timber provide a certificate of assurance that treatment has been carried out as specified.

Z12/20 COMMODITY SPECIFICATIONS

- Standard: Current edition of the Wood Protection Association (WPA) publication 'Industrial wood preservation specification and practice'.

Z12/25 PRESERVATIVE TREATMENT SOLUTION STRENGTHS/ TREATMENT CYCLES

- General: Select to achieve specified service life and to suit treatability of specified wood species.

Z12/30 PRESERVATIVE TREATMENT

- Solution: To be confirmed

- Manufacturer: TRITON

Product reference: To be confirmed by David Reynolds Building Preservation as named Specialist Subcontractor upon further opening up / inspection.

Z20 FIXINGS AND ADHESIVES

Z20/10 FIXINGS AND FASTENERS GENERALLY

- Integrity of supported components: Select types, sizes, quantities and spacings of fixings, fasteners and packings to retain supported components without distortion or loss of support.

- Components, substrates, fixings and fasteners of dissimilar metals: Isolate with washers or sleeves to avoid bimetallic corrosion.

- General usage: To recommendations of fastener manufacturers and/ or manufacturers of components, products or materials fixed and fixed to.

- Fixings: To be in straight lines, at regular centres.

Z20/25 FASTENER DURABILITY

- Materials: To have:

- Bimetallic corrosion resistance appropriate to items being fixed.

- Atmospheric corrosion resistance appropriate to fixing location.

- Appearance: Submit samples on request.

Z20/30 FIXINGS THROUGH FINISHES

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

Z20/35 PACKINGS

- Materials: Noncompressible, corrosion proof.

- Area of packings: Sufficient to transfer loads.

Z20/40 CRAMP FIXINGS

- Fasteners: Fix cramps to frames with screws of same material as cramps.

- Fixings in masonry work: Fully bed in mortar.

Z20/50 PELLETED COUNTERSUNK SCREW FIXINGS

- Finished level of countersunk screw heads: Minimum 6 mm below timber surface.

- Pellets: Cut from matching timber, grain matched, glued in to full depth of hole.

- Finished level of pellets: Flush with surface.

Z20/55 PLUGGED COUNTERSUNK SCREW FIXING

- Finished level of countersunk screw heads: Minimum 6 mm below timber surface.

- Plugs: Glue in to full depth of hole.

- Finished level of plugs: Projecting above surface.

Z20/60 APPLYING ADHESIVES

- Surfaces: Clean. Regularity and texture to suit bonding and gap filling characteristics of adhesive.

- Support and clamping during setting: Provide as necessary. Do not mark surfaces of or distort components being fixed.

- Finished adhesive joints: Fully bonded. Free of surplus adhesive.

Z21 MORTARS

Z21/10 MORTAR MIXES

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

Z21/20 SAND FOR SITE MADE CEMENT GAUGED MASONRY MORTARS

- Standard: To BS EN 13139.

- Grading: 0/2 (FP or MP).

- Fines content where the proportion of sand is specified as a range (e.g. 1:1: 5-6):

Lower proportion of sand: Use category 3 fines.

Higher proportion of sand: Use category 2 fines.

- Sand for facework mortar: Maintain consistent colour and texture. Obtain from one source.

Z21/25 SAND FOR LIME:SAND MASONRY MORTARS

- Type: Sharp, well graded.

- Quality, sampling and testing: To BS EN 13139.

- Grading/ Source: As specified elsewhere.

* NOTE: Sands obtained from Cornish Lime ‘Bideford grit’. Contact Phil Brown and range of samples to be obtained. Note – a recently re-pointed adjacent building to be a guide in terms of execution (stone Gable end to St. Mary’s Place)

Z21/30 READY-MIXED LIME:SAND FOR PLASTIC STONE REPAIRS. REFER ALSO TO SECTION F10/95

- Standard: To BS EN 998-2.

- Lime: NHL 3.5 (possibly NHL 2). To be confirmed

- Type: CL 90S.

- Pigments for coloured mortars: To BS EN 12878.

Z21/40 CEMENTS FOR MORTARS – BLOCKING UP IN CONCRETE BLOCKWORK/BLOCK WALLS TO EXISTING OPENINGS IDENTIFIED ON DRAWINGS

- Cement: To BS EN 197-1 and CE marked.

- Types: Portland cement, CEM I.

Portland limestone cement, CEM II/A-LL.

Portland slag cement, CEM II/B-S.

Portland fly ash cement, CEM II/B-V.

- Strength class: 32.5, 42.5 or 52.5.

- White cement: To BS EN 197-1 and CE marked.

- Type: Portland cement, CEM I.

- Strength class: 52.5.

- Sulfate resisting Portland cement:

- Types: To BS EN 197-1 Sulfate resisting Portland cement, CEM I/SR

and CE marked.

To BS EN 197-1 fly ash cement, CEM II/B-V and CE marked.

- Strength class: 32.5, 42.5 or 52.5.

- Masonry cement: To BS EN 413-1 and CE marked.

- Class: MC 12.5.

Z21/50 ADMIXTURES FOR SITE MADE MORTARS

- Air entraining (plasticizing) admixtures: To BS EN 934-3 and compatible with other mortar constituents.

- Other admixtures: Submit proposals.

- Prohibited admixtures: Calcium chloride, ethylene glycol and any admixture containing calcium chloride.

Z21/60 MAKING MORTARS GENERALLY

- Batching: By volume. Use clean and accurate gauge boxes or buckets.

- Mix proportions: Based on dry sand. Allow for bulking of damp sand.

- Mixing: Mix materials thoroughly to uniform consistency, free from lumps.

- Mortars containing air entraining admixtures: Mix mechanically. Do not overmix.

- Contamination: Prevent intermixing with other materials.

Z21/70 MAKING HYDRAULIC LIME:SAND MORTARS

- Mixing hydrated hydraulic lime:sand: Follow the lime manufacturer’s recommendations for each stage of the mix.

- Water quantity: Only sufficient to produce a workable mix.

Z22 SEALANTS

PRODUCTS

Z22/31 JOINTS

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

EXECUTION

Z22/61 SUITABILITY OF JOINTS

- Presealing checks:

- Joint dimensions: Within limits specified for the sealant.

- Substrate quality: Surfaces regular, undamaged and stable.

Z22/62 PREPARING JOINTS

- Surfaces to which sealant must adhere:

- Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.

- Clean using materials and methods recommended by sealant manufacturer.

- Vulnerable surfaces adjacent to joints: Mask to prevent staining or smearing with primer or sealant.

- Backing strip and/ or bond breaker installation: Insert into joint to correct depth, without stretching or twisting, leaving no gaps.

- Protection: Keep joints clean and protect from damage until sealant is applied.

Z22/63 APPLYING SEALANTS

- Substrate: Dry (unless recommended otherwise) and unaffected by frost, ice or snow.

- Environmental conditions: Do not dry or raise temperature of joints by heating.

- Sealant application: Fill joints completely and neatly, ensuring firm adhesion to substrates.

- Sealant profiles:

- Butt and lap joints: Slightly concave.

- Fillet joints: Flat or slightly convex.

- Protection: Protect finished joints from contamination or damage until sealant has cured.