**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.

 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:

 As per details.

 140 CONTROL SAMPLES

 • Procedure:

 - Finalise 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 manufacturer of the

 remaining quantity.

 • Designated items:

 As per client requirements.

 **PRODUCTS**

 400 COMPOSITE WINDOWS: As per Architects Drawing/Schedules

 • Manufacturer: Alu-Timber, The Parkside Group Ltd, Unit 5, 17 Willow Lane, Mitcham,

 Surrey, CR4 4NX.

 -Product reference: Alu-Timber Casement, Alu-Timber Tilt & Turn.

 • Materials: Exterior frame/ sash cladding: Manufactured from extruded aluminium alloy 6063-T6

 complying with BS EN 755-9, crimped or screw groove jointed to form a complete

 aluminium frame.

 Finish: Polyester powder coated in accordance with BS EN 12206-1: 2004 to a minimum

 thickness of 60 microns, Qualicoat standard, painted at Barley Chalu Ltd .

 - Interior frame/ sash section: Manufactured from Larch Engineered Timber, harvested

 from sustainably managed source, laminated and finger jointed in profiled lengths.

 Finish: Pre coated with two coats of water based lacquer.

 • Glazing details: All glass to conform to BS 6262 for thickness and type. Glass types must

 conform to client requirements for thermal and acoustic properties. All glass to conform to

 customer specification for thermal and acoustic properties .

 - Beading: Vent frames, glazed internally using both retained and site applied wedge

 gaskets manufactured from EPDM to meet the requirements of BS 6262 for vented and

 drained glazing systems. All fixed lights glazed internally using both retained and site

 applied wedge gasket manufactured from EPDM with security bead retaining clips, all to

 meet the requirements of BS 6262 for vented and drained glazing systems.

 • Ironmongery/ Accessories: Both Side-Top-hung open out windows, hung on stainless steel

 friction hinges (restricted as required) and fitted with multi-point espagnolette locking

 mechanisms. Windows operated by off-set, die cast locking handles from standard finish

 range.

 • Fixing: All windows are fixed from timber frame members to the structure using either

 proprietary or specialised fixing lugs. Perimeter sealing carried out using silicon pointing

 with a sponge polypropylene backing rod in accordance with manufacturers specification

 ensuring bonding to two surfaces only.

 410 COMPOSITE WINDOWS: As per Architects Drawing/Schedules

 • Manufacturer: A firm currently registered under a third party quality assurance scheme.

 • Materials:

 - Exterior frame/ sash cladding: As per Section 400.

 Finish: As per Section 400.

 - Interior frame/ sash section: As per Section 400.

 Finish: As per Section 400.

 • Thermal improvement: Product designed to utilise the natural thermal properties of timber

 to the inside of the building and aluminium externally. Thermally assessed in accordance

 with benchmark simulations defined in Bisco BS EN 10077-2.

 • Exposure category to BS 6375-1/ Design wind load: Tested in accordance with BS 6375

 passing at 600Pa moat 1 grading A3 for air and 500P MOAT No 1 grading E4 for water.

 • Operation and strength characteristics: To BS 6375-2.

 • Glazing details: As per section 400.

 - Beading: As per Section 400.

 • Ironmongery/ Accessories: As per Section 400.

 • Fixing: As per Section 400.

 **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.

 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: 5mm.

 - Maximum: 5mm.

 • Distortion: Install windows without twist or diagonal racking.

 770 DAMP PROOF COURSES IN PREPARED OPENINGS

 • Location: Ensure correct positioning in relation to window frames. Do not displace during

 fixing operations.

 784 FIXING OF COMPOSITE FRAMES

 • Standard: As section Z20.

 • Fasteners: As per Technical Manual.

 - 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 600 mm centres.

 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.