

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.
- Certification scheme: FSC.

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 items.

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: all items.

PRODUCTS

330 ALUMINIUM THERMALLY BROKEN DOOR SYSTEM

Refer to drawing A2200

- Manufacturer: Kawneer
 - Product reference: AA 720 Standard Aluminium Thermally Broken Door;
- Materials:
 - Exterior frame/ sash cladding: Aluminium
Finish: PPC as section Z31 – colour TBC
 - Interior frame/ sash section: Aluminium

- Finish: Factory finished, 2 coat micro porous paint, or clear stain selected from standard colour range.
- Configuration : outward opening
- Thermal performance (U-value maximum): 1.4 W/m²K..
- Exposure category classification requirements shall be indicated in conformance with:
 - DS/EN 12207 for air permeability
 - DS/EN 12208 for water tightness
- Glazing details: To DS/EN 1279 with black warm edge spacers, safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.
 - 30mm double glazed unit (High G): Glazing Ug 1.31 / Gg 0.73
- Ironmongery/ Accessories:
 - To include: aluminium folded sill pressings, aluminium ventilators to achieve 2500mm² EA, opening handles to operate a fully concealed multi-point locking safety bolt mechanism with night vent position.
 - To include: support angles at cill level in line with manufacturers recommendations (refer to details)
- - DOUBLE GLAZED UNITS TO MEET SECURE BY DESIGN CERTIFICATION/ BS 7950.
(LAMINATED OUTER AND TOUGHENED INNER PANEL)

331 ALUMINIUM THERMALLY BROKEN WINDOW SYSTEM TO TERRACE

Refer to drawing A2200

- Manufacturer: Kawneer
 - Product reference: AA 720 H2
- Materials:
 - Exterior frame/ sash cladding: Aluminium
Finish: PPC as section Z31 – colour TBC
 - Interior frame/ sash section: Aluminium
- Finish: Factory finished, 2 coat micro porous paint (Permacover polyester powder-coated)
- Configuration : fixed pane
- Thermal performance (U-value maximum): 1.4 W/m²K..
- Exposure category classification requirements shall be indicated in conformance with:
 - DS/EN 12207 for air permeability
 - DS/EN 12208 for water tightness
- Glazing details: To DS/EN 1279 with black warm edge spacers, safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.
 - 30mm double glazed unit (High G): Glazing Ug 1.31 / Gg 0.73
- Ironmongery/ Accessories:
 - To include: aluminium folded sill head and jamb pressings, aluminium ventilators to achieve 2500mm² EA, opening handles to operate a fully concealed multi-point locking safety bolt mechanism with night vent position.
 - To include: support angles at cill level in line with manufacturers recommendations (refer to details)
- DOUBLE GLAZED UNITS TO MEET SECURE BY DESIGN CERTIFICATION/ BS 7950.
(LAMINATED OUTER AND TOUGHENED INNER PANEL)

332 ALUMINIUM THERMALLY BROKEN WINDOW SYSTEM

Refer to drawing A2200

- Manufacturer: Kawneer
- Product reference: AA 720 H2
- Materials:
 - Exterior frame/ sash cladding: Aluminium
Finish: PPC as section Z31 – colour TBC
 - Interior frame/ sash section: Aluminium
- Finish: Factory finished, 2 coat micro porous paint (Permacover polyester powder-coated)
- Configuration : bottom hung
- Thermal performance (U-value maximum): 1.4 W/m²K..
- Exposure category classification requirements shall be indicated in conformance with:
 - DS/EN 12207 for air permeability
 - DS/EN 12208 for water tightness
- Glazing details: To DS/EN 1279 with black warm edge spacers, safety glass to BS EN12600:2002, below 800 mm above finished floor level and below 1500mm within 300mm of doors.
 - 30mm double glazed unit (High G): Glazing Ug 1.31 / Gg 0.73
- Ironmongery/ Accessories:
 - To include: aluminium folded sill head and jamb pressings, aluminium ventilators to achieve 2500mm² EA, opening handles to operate a fully concealed multi-point locking safety bolt mechanism with night vent position.
 - To include: support angles at cill level, head level and within jambs in line with manufacturers recommendations (refer to details)
 - Actuator
 - Product information (or equal and approved)
 - GEZE EC electric window chain operator for smoke ventilation
- DOUBLE GLAZED UNITS TO MEET SECURE BY DESIGN CERTIFICATION/ BS 7950.
(LAMINATED OUTER AND TOUGHENED INNER PANEL)

340 INTERNAL WINDOW BETWEEN 01/04 AND 01/05

Refer to drawing A3120 for dimensions

- **Requirements for secondary-glazed arrangement :**
- Pane 1 : 12.8mm acoustically laminated single glazed panel (
 - Manufacturer/product: Pilkington Optiphon
 - Acoustic requirement: R_w 38 dB
- Cavity : Min. 26mm with acoustically absorbent reveals.
 - Reveals lined with 50mm thick rock fibre slabs ; density not exceeding 80kg/m³ ; faced with a medium having a large free area (minimum 23%), or alternatively be tissue or fabric faced.
- Pane 2 : 16.8mm acoustically laminated single glazed panel
 - Manufacturer/product : Pilkington Optiphon
 - Acoustic requirement : R_w 41 dB

NOTE: acoustic consultant to be consulted upon specification and manufacturer of window.

341 INTERNAL WINDOW BOX OFFICE

Refer to drawing A3120 for dimensions

- **FIXING:** Frameless glazing into metal u-channels; mechanically fixed to surrounding SW timber frame;
- **PRODUCT:** toughened and laminated single sheet of glass

- **FIRE REQUIREMENT:** None

660 BRASS PLATE FLASHINGS TO WINDOWS

LOCATION: REFER TO A SERIES DRAWINGS.

Type: Pressed 5mm Brass Panel

Substrate: Plywood (G20.310)

To include:

Sizes: As indicated on drawings.

- Finish: Distressed brass
- Fixing: Fixing to Subcontractors detail, all fixings to be recessed joints, NONE ON FACE OF PANELS.

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

- 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: 6mm .
 - Maximum: 15mm.
- 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.

780 FIXING OF WOOD FRAMES

- Standard: As section Z20.
- Fasteners: to manufacturers recommendations.
 - 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.

784 FIXING OF COMPOSITE FRAMES

- Standard: As section Z20.
- Fasteners: appropriate to surrounding structure.
 - 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.

810 SEALANT JOINTS

- Sealant:
 - Manufacturer: Adshead Ratcliffe.
Product reference: Arbo LM.
- Colour: to match window colour.
- Application: As section Z22 to prepared joints. Finish triangular fillets to a flat or slightly convex profile.

820 IRONMONGERY

- Fixing: In accordance with any third party certification conditions applicable. 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.