

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: ALL .

140 CONTROL SAMPLE

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

PRODUCTS

220 WIN-1 TIMBER FIX WINDOWS

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window fixed Contemporary
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.6W/m²k
- G-value: 0.62
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

- 221 WIN-2 TIMBER WINDOWS LOWER PART WITH 2 FIX PANELS AND HIGHER PART WITH 2 TURN AND TILT PANELS
- Drawing reference: Windows schedule, A900 to A913
 - Standard: To BS 644.
 - Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window Contemporary
Tilt & Turn Window fixed Contemporary
 - Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
 - Operation and strength characteristics: To BS 6375-2.
 - Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
 - Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
 - Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
 - Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
 - Fixing: Strictly according to manufacturer's recommendations .
 - Thermal performance: U-value: 1.4W/m²k
 - G-value: 0.63
 - Security: BS PAS 24-2012 with P1a rated laminated glass
 - Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

222 WIN-3 TIMBER WINDOWS DOUBLE SASHES

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Sliding Sash - Spiral Balance (Inline Balance) Contemporary
Top Sash: Opening/Opening
Btm Sash: Opening/Opening
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.4W/m²k
- G-value: 0.63
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

223 WIN-4 TIMBER WINDOWS SINGLE SASH

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Sliding Sash - Spiral Balance (Inline Balance) Contemporary
Top Sash: Opening
Btm Sash: Opening
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.4W/m²k
- G-value: 0.63
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

224 WIN-6 TIMBER WINDOWS LOWER PART WITH 3 FIX PANELS AND HIGHER PART WITH 3 TILT PANELS

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window fixed Contemporary
Tilt & Turn Window Contemporary
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.4W/m²k
- G-value: 0.63
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

- 225 WIN-8 TIMBER WINDOWS LOWER PART WITH 2 TURN AND TILT PANELS AND HIGHER PART WITH 1 FIX PANEL
- Drawing reference: Windows schedule, A900 to A913
 - Standard: To BS 644.
 - Manufacturer:
 - A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window fixed Contemporary
Tilt & Turn Window Contemporary
 - Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
 - Operation and strength characteristics: To BS 6375-2.
 - Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
 - Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
 - Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
 - Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
 - Fixing: Strictly according to manufacturer's recommendations .
 - Thermal performance: U-value: 1.4W/m²k
 - G-value: 0.63
 - Security: BS PAS 24-2012 with P1a rated laminated glass
 - Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

- 226 WIN-9 TIMBER WINDOWS LOWER PART WITH 2 TURN AND TILT PANELS, 3 FIX PANELS AND HIGHER PART WITH 3 FIX PANELS
- Drawing reference: Windows schedule, A900 to A913
 - Standard: To BS 644.
 - Manufacturer:
 - A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window fixed Contemporary
Tilt & Turn Window Contemporary
 - Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
 - Operation and strength characteristics: To BS 6375-2.
 - Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
 - Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
 - Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
 - Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
 - Fixing: Strictly according to manufacturer's recommendations .
 - Thermal performance: U-value: 1.4W/m²k
 - G-value: 0.63
 - Security: BS PAS 24-2012 with P1a rated laminated glass
 - Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

227 WIN-10 TIMBER WINDOWS TRIPLE SASHES

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Sliding Sash - Spiral Balance (Inline Balance)
Top Sash: Opening/Opening/Opening
Btm Sash: Opening/Opening/Opening
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.4W/m²k
- G-value: 0.63
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

228 WIN-11 TIMBER WINDOWS TURN AND TILT

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window Contemporary
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.4W/m²k
- G-value: 0.63
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

229 WIN-12 TIMBER WINDOWS WITH 2 TILT AND TURN PANELS ON EACH SIDE OF A FIX PANEL

- Drawing reference: Windows schedule, A900 to A913
- Standard: To BS 644.
- Manufacturer:
A firm currently registered under a third party quality assurance scheme
 - Deemed to comply:
 - Manufacturer: Bereco (complies)
Unit 5, Aspen Court, Centurion Business Park, Bessemer Way,
Rotherham S60 1FB
OR approved equal
 - Product: Tilt & Turn Window Contemporary
Tilt & Turn Window fixed Contemporary
- Exposure category to BS 6375-1/ Design wind load: To specialist contractor design .
- Operation and strength characteristics: To BS 6375-2.
- Timber: Generally to BS EN 942.
 - Species: Redwood (FSC) .
 - Appearance class: J10 for glazing beads, drip mouldings and the like. J40 or better for all other members.
 - Moisture content on delivery: 12-19%.
- Finish as delivered: Factory painted contrast colours internal and externally
 - Internal colour: white RAL TBC - External colour: white RAL TBC . .
- Glazing details: Double glazed unit to specialist contractor design to achieve specified performance .
 - Beading: To specialist design .
- Ironmongery/ Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect. .
- Fixing: Strictly according to manufacturer's recommendations .
- Thermal performance: U-value: 1.4W/m²k
- G-value: 0.63
- Security: BS PAS 24-2012 with P1a rated laminated glass
- Option: When the cill is lower than 800mm: Toughened glass required - Refer to Windows schedule A900 to A913

- 232 RFL-1 NEW POWER OPERATED ROOFLIGHT TO FIRE ESCAPE STAIR 05
- Refer to A770 and A771
 - Manufacturer: Glazing vision
 GLAZING VISION Ltd,
 Saw Mills Road, Diss, Norfolk, IP22 4RG
 Telephone: 0333 8000 881 .
 OR approved equal
 - Product reference: GV Standard Three Wall Box - Code 607 .
 - Type: Sliding rooflight .
 - Frame: PPC aluminium extrusions integrated with 39mm polyamide thermal breaks, concealed closed-cell PIR insulation .
 - Finish: Architect to confirm .
 - Colour: Architect to confirm .
 - Kerb: No visible kerb fixings through the use of extruded external clip-on cover. .
 - Glazing details: Double glazed
 Outer: 6mm HST Clear toughened.
 Spacer: 20mm Black warm edge silicone-sealed argon-filled cavity. Inner: 6mm HST Clear soft low E toughened. .
 - U-value: 1.4W/m²k
 - Power operated: automatic hold open device in case of fire
 - Built in anti-lifting mechanism to prevent disengagement of drive mechanism via vertical movement of sliding frame.
 - Other requirements: Refer to manufacturer's requirement
 - Fixing: Strictly according to manufacturer's recommendations
 - Accessories: All required to complete installation to manufacturers recommendations. Confirm details with architect
- 240 LV-1 ACOUSTIC LOUVRE TO 6TH FLOOR PLANT AREA
- Manufacturer: ALLAWAY ACOUSTICS LIMITED
www.allawayacoustics.co.uk
 OR approved equal
 - Product reference: L60D ACOUSTIC LOUVRE MODEL AL1515
 - Horizontal blades within a four sided external frame.
 Finish: PPC Black Architect to confirm RAL
 - To be compliant with requirement of planning application - Report from RBA Acoustic issued 26th August 2016
- 241 LV-2 ACOUSTIC DOOR TO ACOUSTIC LOUVRE TO 6TH FLOOR PLANT AREA
- Manufacturer: ALLAWAY ACOUSTICS LIMITED
www.allawayacoustics.co.uk#
 OR approved equal
 - Product reference: L370C SINGLE ACOUSTIC LOUVRED DOOR MODEL SAL3015
 RAISED THRESHOLD
 - Finish: PPC Black Architect to confirm RAL
 - To be compliant with requirement of planning application - Report from RBA Acoustic issued 26th August 2016

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: Any copper alloys in contact with iron steel, zinc or aluminium.
 - 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: 3 mm.
 - Maximum: 6 mm.
 - Distortion: Install windows without twist or diagonal racking.
- 780 FIXING OF WOOD FRAMES
- Standard: As section Z20.
 - Fasteners: Contractor choice according manufacturer's 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.
- 782 FIXING OF ALUMINIUM FRAMES
- Standard: As section Z20.
 - Fasteners: Contractor choice according manufacturer's recommendations.
 - Spacing: When not predrilled or specified otherwise, position fasteners not more than 250 mm from ends of each jamb, adjacent to each hanging point of opening lights, and at maximum 600 mm centres.
- 790 FIRE RESISTING FRAMES
- Gap between back of frame and reveal: Completely fill with tightly packed mineral wool OR intumescent mastic.
- 800 BACKFILLING OF STEEL FRAME SECTIONS
- Windows fixed direct into openings: After fixing, fill back of steel frame with waterproof cement fillet.
- 810 SEALANT JOINTS
- Sealant:
 - Manufacturer: Contractor's choice.
Product reference: Submit proposals.
 - Colour: Confirm with architect.
 - 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.