ARP PART 2

STANDARDS OF MATERIALS + WORKMANSHIP

L	WINDOWS / DOORS / STAIRS : To be read with Preliminaries/General conditions.
£10	WINDOWS / ROOFLIGHTS / SCREENS / LOUVRES
L10	PRELIMINARY INFORMATION / REQUIREMENTS
110	EVIDENCE OF PERFORMANCE: Provide independently certified evidence that all specified variants of components comply with specified performance requirements.
120	SITE DIMENSIONS must be taken and recorded on shop drawings before starting to make purpose made components.
L10	COMPONENTS : refer to Part 3.
315	STEEL WINDOWS: To BS 6510 appropriate section Weathertightness: To BS 6375:Part 1. Operation and strength characteristics: To BS 6375:Part 2.
316	STEEL WINDOWS : Manufacture steel frames and opening casements, pivots or sliders from new and existing materials. All existing ironmongery handles, closing devices and latches are to be retained, refurbished and refixed
317	REFURBISH / REMAKE WINDOWS : Remove frame from opening; clean off all debris and loose material; prepare for painting Ease & adjust frames and opening casements to operate easily Paint metal primer overall prior to refitting Frames to be fitted & fixed into grooves in stone sections Frames to be made up with hinged casements (either pivots, bottom or side hung); provide new hinges and weld fix to frames Rescure leaded glazing support bars where found to be loose All existing ironmongery handles, closing, fixing devices and latches are to be retained, refurbished and refixed Provide new waxed cord for operation of pivot, hopper and slider windows
L10	INSTALLATION
710	PROTECTION OF COMPONENTS: Do not deliver to site components which cannot be put immediately into suitable clean, dry, floored and covered storage. Stack near vertical on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.
720	MOISTURE CONTENT OF TIMBER COMPONENTS: During delivery, storage, fixing and thereafter to Practical Completion maintain conditions of temperature and humidity to suit specified moisture content(s) of components. When instructed by CA, test components with an approved electrical moisture meter used in accordance with manufacturer's recommendations.
730	PRIMING/SEALING: Before fixing components ensure that surfaces of timber which will be inaccessible after installation are primed or sealed as specified.
750	BUILDING IN will not be permitted except where specifically stated on the drawings.
765	WINDOW INSTALLATION: Install windows into prepared openings, maintaining a maximum gap of 8 mm between the frame edge and the surrounding construction. Install windows without twist or diagonal racking.
780	FIXING OF TIMBER FRAMES: When not predrilled or specified otherwise, position fixings not less than 150 mm from each end of jamb, adjacent to each hanging point of opening lights and at maximum 450 mm centres.
781	FIXING OF STEEL FRAMES: When not predrilled or specified otherwise, position fixings not less than 50 mm and not more than 190 mm from each end of jamb, adjacent to each hanging point of openeing lights, and at maximum 900mm centres.

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<u> </u>	WINDOWS / DOORS / STAIRS : To be read with Preliminaries/General conditions.	
78 4	FIXING OF COMPOSITE FRAMES: Fix vertical jambs of frames When not predrilled or specified otherwise, position fixings not more than 150 mm from each end of jamb, adjacent to each hanging point of opening lights, and at maximum 600 mm centres.	1
810	SEALANT JOINTS: Sealant manufacturer and reference: refer to Part 3. Prepare joints and apply sealant as section Z22. Finish triangular fillets with a flat or slightly convex profile.	
820	IRONMONGERY: Assemble and fix carefully and accurately using fasteners with matching finish supplied by ironmongery manufacturer. Prevent damage to ironmongery and adjacent surfaces. At completion check, adjust and lubricate as necessary to ensure correct functioning.	
L20	DOORS / SHUTTERS / HATCHES	
L20	PRELIMINARY INFORMATION/REQUIREMENTS	
110	EVIDENCE OF PERFORMANCE: Provide independently certified evidence that all specified variants of components comply with specified performance requirements.	
150	SITE DIMENSIONS must be taken and recorded on shop drawings before starting to make purpose made components.	
L20	COMPONENTS : refer to Part 3 internal or external door sections.	
200	GENERAL : Internal doors :Moisture content of components on delivery: 9 - 13%. External doors : Moisture content on delivery: 12 to 19%.	
210	MATCHBOARDED DOORS: To BS 459.	
250	TIMBER PANELLED DOORS:	
270	PURPOSE MADE TIMBER DOORS: Materials generally: To BS EN 942. Preservative treatment: Organic solvent as section Z12 and British Wood Preserving and Damp-proofing Association Commodity Specification C5. Adhesive: PVAC to BS EN 204, Class D4	
330	TIMBER DOOR FRAMES: Materials generally: To BS EN 942. Preservative treatment: Organic solvent as section Z12 and British Wood Preserving and Damp-proofing Association Commodity Specification C5. Adhesive: PVAC to BS EN 204. Class D4	
L20	INSTALLATION	
710	PROTECTION OF COMPONENTS: Do not deliver to site components which cannot be put immediately into suitable dry, floored and covered storage. Stack on bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.	
720	MOISTURE CONTENT: During delivery, storage, fixing and thereafter to Practical Completion maintain conditions of temperature and humidity to suit specified moisture content(s) of timber components. When instructed by CA, test components with an approved electrical moisture meter used in accordance with manufacturer's recommendations.	
730	PRIMING/SEALING: Before fixing components ensure that surfaces of timber which will be inaccessible after installation are primed or sealed as specified.	

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L	WINDOWS / DOORS / STAIRS : To be read with Preliminaries/General conditions.
760	BUILDING IN will not be permitted except where specifically stated.
770	BUILDING IN TIMBER FRAMES: Fix dpcs with galvanized clout nails to backs of frames which are to be built into external openings.
790	FIXING CENTRES FOR TIMBER FRAMES: When not predrilled or specified otherwise, position fixings 150 mm from each end of jamb, adjacent to each hanging point and at 600 mm maximum centres.
791	FIXING TIMBER FRAMES: fix frames to brickwork or masonry through Protim joinery lining damp proof membrane; which turn below base of frame
820	SEALANT JOINTS: Prepare joints and apply sealant as section Z22. Finish triangular fillets with a flat or slightly convex profile.
830	FIXING IRONMONGERY GENERALLY: Assemble and fix carefully and accurately using fasteners supplied by the ironmongery manufacturer, with matching finish and equivalent corrosion resistance.
	Holes for components to be no larger than the minimum required for satisfactory fit/operation. Protect ironmongery and adjacent surfaces as necessary to prevent damage. At completion, check, adjust and lubricate as necessary to ensure correct functioning of all moving parts.
850	LOCATION OF HINGES: Where not specified otherwise, position hinges with centre lines 250 mm from top and bottom of door leaf. Position third hinge on centre line of door leaf. Position hinges for fire resisting doors in accordance with door leaf manufacturer's recommendations.
L40	GENERAL GLAZING
L40	GENERAL REQUIREMENTS
130	REMOVAL OF GLAZING FOR REUSE: Carefully remove existing glazing and glazing compound, beads, etc., avoiding damage to the frame, to leave clean smooth rebates free from obstructions and debris. Report to CA any signs of deterioration of the surround revealed by removal of glazing, compounds, etc. Do not reglaze affected surrounds until instructed.
	Clean glazing, beads and other components that are to be reused.
150	WORKMANSHIP GENERALLY: Glazing generally: to BS 6262. The glazing must be wind and watertight under all conditions with full allowance made for deflections and other movements. Panes/sheets to be within ±2 mm of specified dimensions. Avoid contact between glazing panes/units and alkaline materials such as cement and lime. Keep materials dry until fixed. Keep insulating glass units and plastics glazing sheets protected from the sun and away from heat sources. Ensure that glass/plastics, surround materials, sealers primers and paints/clear finishes to be used together are compatible. Comply with glazing and sealant manufacturers' recommendations.
152	PREPARATION: Clean surrounds, rebates, grooves and beads, and prepare as specified before installing glazing.
155	GLASS GENERALLY: To BS 952 and the relevant part(s) of: BS EN 572 for basic soda lime silicate glass. Panes/sheets to be 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.
L40	TYPES OF GLAZING

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L	WINDOWS / DOORS / STAIRS : To be read with Preliminaries/General conditions.
200	
	Reuse all existing stained glass in new glazing
	Cathedral glass formed in panels of lead bars; fixed at edge into rebate in stone mullions / sections; fixed to support bars/ ferramenta across glazing
	Type of glass : Cathedral glass; rolled finish one side, bubble finish on other
	Pane size :generally : square c 75 x 75; diamond 75 x 75; rectangular 35 x 75
	Lead Cames: Historian to match existing some
	Side fixing :
	Type of putty: linseed oil putty to BS 544 / metal casement putty
	Apply sufficient putty to produce not less than 1.5 mm finished thickness of back bedding after inserting glazing.
	Locate glazing centrally in rebate in surround; secure / wedge in place with lead wedges along entire length.
	Fixing to ferramenta :
	Lead solder coppper clips from lead bars to ferramenta at 150mm centres; twist tightly over ferramenta and turn down neatly.
201	COLOURED GLAZING
	Cathedral glass formed in panels; fixed at edge in timber beads
	Type of glass : Cathedral glass; rolled finish one side, bubble finish on other
	Pane size : reter to detailed drawings
	manufacturer : Hetjeys
202	COLOURED GLAZING
	Cathedral glass formed in panels; fixed at edge into rebates in stone surrounds - lime putty mortared in place
	Type of glass : Cathedral glass; rolled finish one side, bubble finish on other
	Pane size : refer to detailed drawings
	Thickness: 4mm
	manufacturer : Hetleys
210	NEW SUPPORT BARS / FERRAMENTA
	New support bars / ferramenta to be 6mm round section; material austenitic steel
	Fixing into existing hole in stonework; which clean out prior to fitting; drilt out as necessary for new bar
	Paint overall before fixing: undercoat, matt black finish
	The ball into existing note it stonework, which clean out prior to itxing; itx in place with lime putty:stone mortar
220	RESECURING SUPPORT BARS / FERRAMENTA
	Carefully remove existing loose puuty or mortar from ends of bars in masonry;
	Paint overall before fiving clins to cless load hom
	Fix bar into existing hole in stonework; fix in place with lime putty:stone mortar
250	BEAD FIXED SINGLE GLAZING : with tapes and capping sealant
	Apply tape of sufficient thickness to produce not less than 3 mm bed on both sides of the glazing after compression. Butt joint tape at corners, leaving no gaps. Tape to finish approximately 6 mm short of sight line on external side of glazing to receive capping sealant.
	Locate glazing centrally in the surround using setting and location blocks.
	Bed beads in sealant, press firmly into position to compress tape, and fix securely.
	Analy capping sealant to fill yold between bead and glazing and finish to a smooth chamfor
260	BEAD FIXED SINGLE GLAZING : with extruded gaskets
	Locate glazing centrally in surround using setting and location blocks.
	install gaskets and fit beads as recommended by the frame manufacturer. Cut gasket sections over length to ensure a light fit without gaps at corners.
300	LEADED BAR GLAZING
	Reuse all existing stained glass in new glazing

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L.	WINDOWS / DOORS / STAIRS : To be read with Preliminaries/General conditions.
	Cathedral glass formed in panels of lead bars; fixed at edge into rebate in stone mullions / sections; fixed to support bars/ ferramenta across glazing
	Type of glass : Cathedral glass; rolled finish one side, bubble finish on other
	Pane size :generally : square c 75 x 75; diamond 75 x 75; rectangular 35 x 75
	Thickness: 3mm
	Lead Cames: H section to match existing cames
	Side fixing :
	Type of putty: linseed oil putty to BS 544 / metal casement putty
	Apply sufficient putty to produce not less than 1.5 mm finished thickness of back bedding after inserting glazing.
	Locate glazing centrally in rebate in surround; secure / wedge in place with lead wedges along entire length.
	Fixing to ferramenta :
	Lead solder coppper clips from lead bars to ferramenta at 150mm centres; twist tightly over ferramenta and turn down neatly.
320	NEW SUPPORT BARS / FERRAMENTA
	New support bars / ferramenta to be 6mm round section; material austenitic steel
	Fixing into existing hole in stonework; which clean out prior to fitting; drill out as necessary for new bar
	Paint overall before fixing: undercoat, matt black finish
	Fix bar into existing hole in stonework, which clean out prior to fixing; fix in place with lime putty:stone mortar
340	RESECURING SUPPORT BARS / FERRAMENTA
	Carefully remove existing loose puuty or mortar from ends of bars in masonry;
	Clean up bars and remove all debris
	Paint overall before fixing clips to glass lead bars
	Fix bar into existing hole in stonework; fix in place with lime putty:stone mortar
370	BEAD FIXED INSULATING GLASS UNITS : with insert gasket sections
	Locate insulating unit centrally in surround using setting and location blocks.
	Install gaskets and fit beads as recommended by the frame manufacturer. Cut gasket sections over length to ensure a tight fit without gaps at corners.
	Ensure that drainage and ventilation holes are not obstructed.
371	BEAD FIXED INSULATING GLASS UNITS : with cellular adhesive sections/strips or preshimmed mastic tapes
	Apply glazing section/strip/tape to rebate upstand in position recommended by the manufacturer.
	Locate insulating unit centrally in surround using setting and locations blocks.
	Apply second glazing section/tape to beads, Install beads using sufficient pressure to compress inner and outer sections/strips/tapes and fix securely.
	Ensure that drainage and ventilation holes are not obstructed.
372	BEAD FIXING INSULATING GLASS UNITS :with load bearing tapes or synthetic rubber sections with sealant capping
	Apply glazing section/strip/tape to rebate upstand finishing approximately 5 mm short of sight line to allow for capping sealant.
	Locate insulating unit centrally in surround using setting and location block.
	Apply second glazing section/strip/tape to beads finishing approximately 5 mm short of sight line. Install beads using sufficient pressure to compress inner and outer sections/strips/tapes and fix securely.
	Apply capping sealant to both sides of glazing unit and finish to a smooth chamfer.
	Ensure that drainage and ventilation holes are not obstructed.
380	BEAD FIXED INSULATING GLASS UNITS : for inside or outside bead glazing with solid bedding
	Apply sealant to full height to rebate. Use distance pieces to give not less than 3 mm bed between rebate and unit.
	Locate insulating unit centrally in surround using setting and location blocks.
	Fill edge clearance void with outer sealant and apply a substantial bead between the unit and the rebate platform. Insert distance pieces to give not less than 3 mm bed between unit and beads.
	Bed the beads on sealant and apply sufficient pressure to extrude the sealant up between beads and upit. Fix beads securely
	Apply further sealant to complete the bedding up to sight line and finish with a smooth chamfer.
	Finish off sealant to a smooth chamfer.
505	FIRE RESISTANT TAPE/STRIP GLAZING

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STANDARDS OF MATERIALS + WORKMANSHIP

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L WINDOWS / DOORS / STAIRS : To be read with Preliminaries/General conditions.

Installation to be carried out by a BM TRADA Certification or FIRAS registered installer in accordance with glazing manufacturer's recommendations.

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