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Specification: **L20 DOORS/SHUTTERS/HATCHES**

Project: **5 LINCOLNS INN FIELDS**

Project ref.: **BFF 1019**

Status: **TENDER ISSUE**

| <u>Rev.</u> | <u>Date</u> | <u>Status</u> | <u>Amendments</u> |
|-------------|-------------|---------------|-------------------|
| T1 | 08.11.10 | 5500 Joinery | |

L20 DOORS/ SHUTTERS/ HATCHES

To be read with Preliminaries/ General conditions.

Note: The house has until recently been used as an office. Existing timber doors had generally previously been upgraded to improve their fire-rating. Where fire-resisting panels have been applied to existing doors as part of this process, these are not to be removed under the refurbishment as it is feared that panel removal may damage the old doors. Instead, the existing plywood and "Supalux" panels are to be retained, but the beads which fix them are to be renewed to an *ovo/lo* profile, more in keeping with the original age of the house.

GENERAL**110 EVIDENCE OF PERFORMANCE**

- Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.

112 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.

115 FIRE RESISTING DOORS/ DOORSETS/ ASSEMBLIES

- Evidence of fire performance: Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire resistance if tested to BS 476-22, BS EN 1634-1 or BS EN 1634-3. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.
- Where test certificates for new / existing panelled door assemblies cannot be provided, provide evidence of fire-performance of new components for approval by Building Inspector,

150 SITE DIMENSIONS

- Procedure: Before starting work on new doors for existing openings take site dimensions, record on shop drawings and use to ensure accurate fabrication.

170 CONTROL SAMPLES

- 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 manufacture of the remaining quantity.
- Designated items: Oak-veneered flush door, solid oak architraves, new beads (ovolo, bolection and square edge), new profiled architraves..

PRODUCTS

- 230A **NEW INTERNAL WOOD FLUSH DOORS: NON-FIRE-RATED, 45mm THICK, PAINTED TIMBER DOOR**
- Drawing references AA(32)10-1, AA(32)10-2, AA(32)11-1, AA(32)11-2, AA(32)14-1, AA(32)34-1, AA(32)34-2
 - Manufacturer and reference: Contractors' choice .
 - Facings: plywood for painting.
 - Lippings: square flush hardwood lippings to all four edges, vertical lipping set master horizontal.
 - Preservative treatment: organic solvent as section Z12 and BWPDA Commodity.
 - Finish as delivered: primed for painting.
 - Perimeter seals: none.
 - Other requirements:
 - o Ironmongery: as shown on drawings
 - Fixing: plugged and screwed as clause 790 and section Z20.
 - Frame, stops and architraves as clause 330A
- 230B **NEW INTERNAL WOOD FLUSH DOORS: FIRE-RATED FD30S, 45mm THICK, PAINTED**
- Drawing reference AA(32)03-1, AA(32)03-2
 - Manufacturer and reference: Contractors' choice .
 - Core: solid timber to manufacturers' choice
 - Facings: plywood for painting.
 - Lippings: square flush hardwood lippings to all four edges, vertical lipping set master horizontal.
 - Preservative treatment: organic solvent as section Z12 and BWPDA Commodity.
 - Finish as delivered: primed for painting.
 - Fire seals: Mann McGowan Pyrostrip 10 x 4 500P in white rigid pvc holder to three edges of door leaf (both long sides and top) or equivalent approved as necessary to achieve stated performance.
 - Other requirements:
 - o Ironmongery: as shown on drawings
 - Fixing: plugged and screwed as clause 790 and section Z20.
 - Frame, stops and architraves as clause 330A
- 230C **NEW INTERNAL WOOD FLUSH DOORS: NON FIRE-RATED, 54mm THICK PAINTED TIMBER JIB DOOR**
- Drawing reference AA(32)26-1, AA(32)26-2
 - Manufacturer and reference: Contractors' choice
 - Facings: plywood for painting.
 - Lippings: square flush hardwood lippings to all four edges, vertical lippings to master horizontal.
 - Preservative treatment: organic solvent as section Z12 and BWPDA Commodity.
 - Finish as delivered: primed for painting.
 - Perimeter seals: none.
 - Other requirements:

- Ironmongery: as shown on drawings
 - Applied skirting to bottom of door
 - Rebated leading edge to leaf as shown on drawings
 - Fixing: plugged and screwed as clause 790 and section Z20.
 - Frame, stops and architraves as clause 330A
 - Provide shop drawings
- 231A NEW INTERNAL HARDWOOD VENEERED WOOD FLUSH DOORS: 45mm THICK, NON FIRE-RATED**
- Drawing reference AA(32)48-1, AA(32)48-2, AA(32)48-3
 - Manufacturer and reference: Contractors' choice .
 - Core: solid timber to manufacturers' choice
 - Facings: Oak veneered plywood. Veneer finish to be slip matched to follow through with flush veneer panel and other doors in the assembly.
 - Lippings: solid oak square flush lippings to all four edges, vertical lippings to master horizontal. Veneer to master lippings.
 - Preservative treatment: organic solvent as section Z12 and BWPDA Commodity.
 - Finish as delivered: TBC – allow for waxing in the tender.
Perimeter seals: not required
 - Other requirements:
 - Ironmongery: as shown on drawings
 - Fixing: plugged and screwed as clause 790 and section Z20.
 - Frame, stops and architraves as clause 330B
 - Provide shop drawings for assembly D1(3.08), D2(3.08) and D3(3.08)
- 231B NEW INTERNAL VENEERED WOOD FLUSH DOORS: 45mm THICK FIRE-RATED FD20**
- Drawing reference AA(32)48-1, AA(32)48-2, AA(32)48-3, AA(32)49-1, AA(32)49-2
 - Manufacturer and reference: Contractors' choice .
 - Core: solid timber to manufacturers' choice
 - Facings: Oak veneered plywood. Veneer finish to be slip matched to follow through with flush veneer panel and other doors in the assembly.
 - Lippings: solid oak square flush lippings to all four edges, vertical lippings to master horizontal. Veneer to master lippings.
 - Preservative treatment: organic solvent as section Z12 and BWPDA Commodity.
 - Finish as delivered: TBC – allow for waxing in the tender.
Perimeter seals: routed intumescent seals to achieve required fire rating, and in colour to match veneer as closely as possible.
 - Other requirements:
 - Ironmongery: as shown on drawings
 - Fixing: plugged and screwed as clause 790 and section Z20.
 - Frame, stops and architraves as clause 330B
 - Provide shop drawings for assembly D1(3.08), D2(3.08) and D3(3.08) as noted clause 213A above.
- 270A NEW INTERNAL WOOD DOORS: 4 PANELLED (FLAT PANEL WITH BOLECTION BEAD) NON-FIRE RATED**
- Drawing reference: AA(32)05-1, AA(32)05-2, AA(32)06-1, AA(32)06-2
 - Materials: Generally to BS EN 942.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
 - Panels: 25mm birch veneer faced plywood. Bonding quality to BS EN 341-2, Class 3.
 - Beads: hardwood bolection beads to match existing profile at basement level

- Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
 - Preservative treatment: not required.
 - Moisture content on delivery: 9-13%..
 - Finish as delivered: Primed and ready for painting.
 - Frame, stops and architraves as per drawings, and refer clause 331 (existing)
 - Other requirements:
 - Ironmongery as shown on drawings
 - Provide shop drawings.
- 270B **NEW INTERNAL WOOD DOORS: 4 PANELLED (RAISED & FIELDED PANELS), NON-FIRE RATED**
- Drawing reference: AA(32)19-1, AA(32)19-2
 - Materials: Generally to BS EN 942.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
 - Panels: Raised and Fielded softwood.
 - Beads: hardwood ovolo mouldings (to match existing profile on door D2(G.02))
 - Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
 - Preservative treatment: not required.
 - Moisture content on delivery: 9-13%..
 - Finish as delivered: Primed and ready for painting.
 - Ironmongery as shown on drawings
 - Frame, stops and architraves as per drawings, and refer clause 331 (existing)
 - Provide shop drawings.
- 270C **NEW INTERNAL WOOD DOORS: 4 PANELLED (RAISED & FIELDED PANELS), FIRE RATED FD20**
- Drawing reference: AA(32)20-1, AA(32)20-2, AA(32)31-1, AA(32)35-2, AA(32)38-1 AA(32)19-2
 - Materials: Generally to BS EN 942.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
 - Panels: Raised and Fielded softwood with 6mm supalux backing .
 - Beads: hardwood ovolo mouldings (to match existing profile on door D2(G.02))
 - Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
 - Preservative treatment: not required.
 - Moisture content on delivery: 9-13%.
 - Finish as delivered: Primed and ready for painting.
 - Perimeter fire seals: Mann McGowan Pyrostrip 10 x 4 500P in white rigid pvc holder to three edges of door leaf (both long sides and top) or equivalent approved as necessary to achieve stated performance.
 - Ironmongery as shown on drawings
 - Glazing details to upper panels (only where shown on drawings):
 - Clear 6mm Pyroshield Safety clear glass(or equivalent)
 - Pyroglaze 30 10x3mm intumescent glazing strips by Mann McGowan or similar to achieve required fire resistance (colour white)

- hardwood ovolo beads to match lower panels
- Frame, stops and architraves as clause 331 (existing)
- Other requirements:
 - o Ironmongery: as shown on drawings
 - o Provide shop drawings.

271A **EXISTING** INTERNAL “PANELLED” WOOD DOORS (BOLECTION BEADED)
NON FIRE

- Drawing reference: AA(32)41-1, AA(32)41-2, AA(32)43-1, AA(32)43-2, AA(32)44-1, AA(32)44-2, AA(32)47-1
- Existing construction / materials: solid core timber door with ‘panels’ formed using applied 6mm plywood facing with profiled timber bolection beads
- Beads: hardwood bolection mouldings (to match existing profile)
- Ironmongery as shown on drawings
- Repairs as shown on drawings
- **New** solid panels where shown on drawings are to match existing in solid core timber, with plywood facing suitable for painting.
- **New** bolection beads where shown on drawings to match existing.
- Finish: site painted as decorations schedule.
- Frames, stops and architraves as clause 330 (new) or 331 (existing).

271B **EXISTING** INTERNAL “PANELLED” WOOD DOORS (BOLECTION BEADED)
FIRE RATED FD20

- Drawing reference: AA(32)02-1, AA(32)04-1, AA(32)07-1, AA(32)08-1, AA(32)08-2, AA(32)39-1, AA(32)40-1, AA(32)40-2, AA(32)42-1, AA(32)45-1, AA(32)46-1, AA(32)46-2
- Existing construction / materials: solid core timber door with ‘panels’ formed using applied 6mm plywood facing with profiled timber bolection beads
- Ironmongery as shown on drawings
- Repairs as shown on drawings
- **New** solid panels where required to match existing in solid core timber, with plywood facing suitable for painting.
- **New** bolection beads where shown on drawings to match existing.
- **New** perimeter seals: Strip out existing fire-smoke seals, rerout door edge and piece in new intumescent seals Mann McGowan Pyrostrip 20 x 4 500P in white rigid pvc holder to three edges of door leaf (both long sides and top) or equivalent approved as necessary to achieve stated performance and to suit new wider rout. **New acoustic seals** required for doors D1(2.08) – Mann McGowan ref ACS1 Acoustic Retrofit seals (white) to head and jambs, Flexifin FF10 routed into base of door leaf.
- **Reglazing** details to upper panels (only where shown on drawings):
 - Clear 6mm Pyroshield (or equivalent)
 - Pyroglaze 30 10x3mm intumescent glazing strips by Mann McGowan or similar to achieve required fire resistance (colour white)
 - new profiled hardwood beads. Bolection beads to match lower panels to be refixed over new beads as shown on drawing.
- Finish: site painted as decorations schedule.
- Frames, stops and architraves as clause 330 (new) or 331 (existing).

272A **EXISTING** INTERNAL PANELLED WOOD DOORS (RAISED & FIELDDED PANELS) NON-FIRE RATED

- Drawing reference: AA(32)16-1, AA(32)16-2, AA(32)27-1, AA(32)29-1, AA(32)36-1, AA(32)36-2, AA(32)37-1, AA(32)37-2
- Existing construction / materials: solid timber rails and stiles
- Existing Panels: Raised and Fielded softwood with 6mm supalux backing .
- Beads: existing hardwood Ovolo mouldings on Raised & Fielded side of panels to be retained. Existing quadrant beads on the flat Supalux side to be **replaced** with new hardwood Ovolo beads to match existing on opposite side.
- Repairs to leaf as shown on drawings
- **Reglazing** details (only where shown on drawings):
 - 6mm safety glass, clear or etched as noted on drawings
 - Ovolo profile hardwood glazing beads to match existing
- Perimeter seals: Generally none required. Strip out existing fire-smoke seals, rerout door edge and piece in timber. Acoustic seals required for doors D2(2.02) and D2(3.02) – Mann McGowan ref ACS1 Acoustic Retrofit seals (white) to head and jambs, Flexifin FF10 routed into base of door leaf.
- New oak thresholds: to bathroom and shower room doors at 2nd and 3rd floors. To doors D2(2.02) and D2(3.02) bottom of oak threshold is to be trimmed so that slope of threshold can be adjusted to follow bottom of door leaf. This is to ensure even gap for proper closing of acoustic seal.
- Frames, stops and architraves as clause 331.
- Finish: site painted as decorations schedule.

272B **EXISTING** INTERNAL PANELLED WOOD DOORS (RAISED & FIELDDED PANELS) FIRE RATED FD20

- Drawing reference: AA(32)17-1, AA(32)21-1, AA(32)28-1, AA(32)30-1
- Existing construction / materials: solid timber rails and stiles
- Existing Panels: Raised and Fielded softwood with 6mm supalux backing .
- Beads: existing hardwood ovolo mouldings on Raised & Fielded side of panels to be retained. Existing quadrant beads on the Supalux side to be **replaced** with new hardwood Ovolo beads to match existing on opposite side.
- Repairs to leaf as shown on drawings
- **Reglazing** details (only where shown on drawings):
 - Clear 6mm Pyroshield Safety Clear glass (or equivalent)
 - Pyroglaze 30 10x3mm intumescent glazing strips by Mann McGowan or similar to achieve required fire resistance (colour white)
 - New Ovolo profile hardwood beads (to match existing on raised & fielded side)
- **New** perimeter seals: Strip out existing fire-smoke seals, rerout door edge and piece in new intumescent seals Mann McGowan Pyrostrip 20 x 4 500P in white rigid pvc holder to three edges of door leaf (both long sides and top) or equivalent approved as necessary to achieve stated performance and to suit new wider rout.
- Frames, stops and architraves as clause 331.
- Finish: site painted as decorations schedule.

330A **NEW PAINTED** SOFTWOOD DOOR FRAMES, STOPS AND ARCHITRAVES

- Sizes as shown on drawings
- Materials: Generally to BS EN 942.
 - Species: Softwood as table NA1 .
 - Appearance class: J30.
- Assembly:
 - Adhesive: WBP – Contractors choice.

- Joinery workmanship: As section Z12.
 - Preservative treatment: Organic solvent as section Z12 and BWPDA Commodity.
 - Moisture content on delivery: 9-13%..
 - Finish as delivered: Primed and ready for site painting.
 - Perimeter seals: Not required – where necessary intumescent fire seals are to be routed into new doors.
 - Fixing: Countersunk screwed and pelleted as section Z20.
- 330B NEW WOOD DOOR FRAMES, STOPS, ARCHITRAVES IN SOLID OAK
- Location: To door assembly D1(3.08), D2(3.08) D1(3.08)
 - Materials: Generally to BS EN 942.
 - Species: Oak.
 - Appearance class: J30.
 - Assembly:
 - Adhesive: WBP - Contractors choice.
 - Joinery workmanship: As section Z12.
 - Preservative treatment: Not required.
 - Moisture content on delivery: 9-13%.
 - Finish as delivered: Waxed.
 - Perimeter seals: Not required.
 - Fixing: Countersunk screwed and pelleted as section Z20.
- 331 WORKS TO EXISTING FRAMES
- Linings: Where noted on the drawings, these are to be pieced in to provide new fixing for hinges.
 - Stops: existing 'modern' 25mm deep stops to be removed. Provided the existing original stops are deep enough (minimum 10mm) no replacement stops are required. Otherwise, where necessary new 12mm deep stops are to be installed, fixed at 150mm centres vertically using 8mm woodscrews csk and filled.
 - Architraves: allow for resin repairs to architraves to the following doors D1(G.04), D1(G.05), D1(G.06) D2(1.02), D1(1.03), D1(2.02), D1(2.06), D1(3.06). Where existing wide profiled architraves have been battered / or the rounded corner feature bead "squared off" using decorators fill, these are to be repaired. Profile of corner bead to be restored using resin filler eg Dry Flex Resin Filling compound by Repair Care International tel 01487 830311, in accordance with manufacturers' instructions.
- 370 ALUMINIUM DOOR FRAME TO KITCHEN FIRE-RATED 20FDS
- Drawing reference(s): AA(32)32-1, AA(32)32-2, AA(32)32-3
 - Manufacturer and reference: Stewart Fraser Ltd, Henwood Industrial Estate, Ashford, Kent TN24 8DR, 01233 625911, or similar approved
 - Product reference: Pyrostyle E60 series Door System – Satin Brushed Stainless Steel.
 - Frame and architraves: frame to be flush mounted as drawing
 - Door leaf material: to manufacturers recommendations to comply with requirements for safety and fire resistance where applicable.
 - Thickness: 12mm
 - Colour: Clear,
 - Manifestation: film as clause L40/610; height/pattern, opacity to be confirmed.
 - Door frame: non standard height bottom rail, refer to drawings
 - Material/Finish: satin finish stainless steel
 - Ironmongery: floor spring and top centre pivot as standard. Ironmongery schedule to follow.

- Pull handles: IZE pull handle, back-to-back through glass fixings.
 - Size: t.b.c
 - Material/ finish: satin stainless steel.
 - Perimeter seals: proprietary smoke seals to three edges of door leaf (both long sides and top) as necessary to achieve stated performance.
 - Fixing: to manufacturers recommendation to support construction and to meet performance requirement
 - Other requirements:
Provide shop drawings
- 420 **PANELLED WOOD SECURITY DOORSET**
- Manufacturer: Shield Security doors 020 8795 3178
 - Product reference: Skydas Standart 3.
 - Drawing reference: AA(32)13-1, AA(32)13-2
 - Door leaf to manufacturer's standard customised to panel and bead profile shown on the drawings.
 - Finish as delivered: Factory painted.
 - Frame to manufacturer's standard:
 - Finish as delivered: Factory painted.
 - Glazing details: to manufacturer's standard.
 - Beading
 - Ironmongery: as shown on drawings.
 - Perimeter seals: weather seals.
 - Fixing: to manufacturer's standard.
 - Other requirements: catflap.
Provide shop drawings.
- 430A **EXISTING EXTERNAL PANELLED WOOD DOOR IN EXISTING FRAME**
- Repairs as BFF drawing reference AA(32)18-1
 - New perimeter seals: Mann McGowan Enviroseal or similar approved. Seal type to be agreed following inspection of air gaps.
 - Finish: site painting as Finishes Schedule.
- 430B **EXISTING EXTERNAL PANELLED WOOD DOOR IN NEW FRAME**
- Works as BFF drawing reference AA(32)22-1, AA(32)22-2, AA(32)22-3
 - New perimeter seals: Mann McGowan Enviroseal or similar approved. Seal type to be agreed following inspection of air gaps.
 - Finish: leaf to be redecorated. New frame to be supplied primed ready for site painting as Finishes Schedule.
- 430C **NEW EXTERNAL GLAZED PANELLED WOOD DOOR IN NEW FRAME**
- Drawing reference AA(32)50-1, AA(32)50-2, AA(32)51-1, AA(32)51-2
 - Door leaf: Generally to BS EN 942.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
 - Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
 - Preservative treatment: organic solvent as section Z12 and BWPDA Commodity Specification C5, desired service life: 60 years.
 - Moisture content on delivery: 13 – 19%
 - Glazing: double glazed 4mm toughened outer leaf/ 6mm laminated inner leaf

- Beads: 16x16mm square flush hardwood internal bead with quirk, counter sunk screwed and plugged.
- Softwood architraves as shown on drawings:
- Wood species:
- Ironmongery as shown on drawings
- Finish as delivered: primed and ready for site painting.
- Other requirements: catflap (specification tbc)

430D NEW FULLY-GLAZED INTERNAL TIMBER FRAMED DOOR SETS FIRE RATED FD20

- Drawing reference: AA(32)24-1, AA(32)24-2, AA(32)25-1, AA(32)25-2
- Door leaf: Generally to BS EN 942.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
- Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
- Preservative treatment: not required.
- Moisture content on delivery: 9-13%..
- Glazing details to upper panels:
 - Glass: 6mm Pyroshield Safety Clear or equivalent approved fire resistant glass
 - Beads: profiled bolection hardwood beads with intumescent trip Pyroglaze 10x3mm by Man McGowan or similar approved.
- Perimeter deals: intumescent seals routed into door leaf edges and top as necessary to achieve stated performance of door assembly.
- 'Etched' film to be applied glass where shown on drawings.
- Frame and stops: Utile hardwood to size shown on drawings Stops to be fixed using countersunk steel woodscrews at nominal 150mm centres approx 45° to the vertical.
- Softwood architraves as shown on drawings:
- Wood species:
- Ironmongery as shown on drawings
- Finish as delivered: Primed and ready for painting.

510 EXISTING METAL STRONG ROOM DOOR

- Works as BFF drawing reference AA(32)09-1, AA(32)12-1

520 SLIDING DOORS TO BIKE STORE AND METER CUPBOARD

- Drawing reference: AA(32)15-1
- Arrangement: 3 top-hung, parallel sliding door leaves.
 - Track system: GEZE Perlan 140 3-track .
- Door leaves: 2 no to bike store formed in tongue and groove timber, framed, ledged and battened softwood. 1 no to meter cupboard, of closely-spaced vertical timber slats with air gaps between, framed.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
- Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
- Preservative treatment: organic solvent as section Z12 and BWPDA Commodity Specification C5, desired service life: 60 years.

- Moisture content on delivery: 13 – 19%
 - Finish as delivered: painted to finishes schedule.
 - Operation: manual.
 - Ironmongery: track as noted above. Doors to be lockable.
 - Perimeter seals: not required.
- 540 SLIDING FOLDING PANELLED DOORS TO ANNEXE (NON FIRE RATED)
- Drawing reference: AA(32)01-1, AA(32)01-2, AA(32)01-4
 - Arrangement: 4-leaf end folding door, butt surface mounted.
 - Track system: GEZE Apoll including bottom track
 - Door leafs: timber framed, single-panel door leafs
 - Materials: Generally to BS EN 942.
 - Species: Softwood as NA1 .
 - Appearance class: J30.
 - Panels: 12mm birch veneer faced plywood. Bonding quality to BS EN 341-2, Class 3.
 - Beads: hardwood square edge beads to match existing profile at basement level
 - Assembly:
 - Adhesive: WBP – Contractors choice.
 - Joinery workmanship: As section Z10.
 - Accuracy: To BS 4787-1.
 - Preservative treatment: not required.
 - Moisture content on delivery: 9-13%..
 - Finish as delivered: Primed and ready for painting.
 - Ironmongery: 3 stainless steel hinges per leaf. Flush bolt. Pair back-to-back stainless steel recess pulls for the leading leaf.

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: Stacked on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.
- 730 PRIMING/ SEALING
- Wood surfaces inaccessible after installation: Primed or sealed as specified before fixing components.
- 750 FIXING DOORSETS
- Timing: After associated rooms have been made weathertight and the work of wet trades is finished and dried out.
- 760 BUILDING IN
- General: Not permitted unless indicated on drawings.
- 770 DAMP PROOF COURSES ASSOCIATED WITH BUILT IN WOOD FRAMES
- Method of fixing: To backs of frames using galvanized clout nails.
- 780 DAMP PROOF COURSES IN PREPARED OPENINGS
- Location: Correctly positioned in relation to door frames. Do not displace during fixing operations.
- 790 FIXING OF WOOD FRAMES

- Spacing of fixings (frames not predrilled): Maximum 150 mm from ends of each jamb and at 600 mm maximum centres.
- 800 FIXING OF LOOSE THRESHOLDS
- Spacing of fixings: Maximum 150 mm from each end and at 600 mm maximum centres. Slope of oak thresholds to be adjusted to ensure even gap along bottom of door leaf for proper closing of acoustic seal.
- 809 FIRE RESISTING/ SMOKE CONTROL DOORS/ DOORSETS
- Installation: By a firm currently registered under a third party accredited fire door installer scheme in accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.
- 810 FIRE RESISTING/ SMOKE CONTROL DOORS/ DOORSETS
- Gaps between frames and supporting construction: Filled as necessary in accordance with requirements for certification and/ or door/ doorset manufacturer's instructions.
- 820 SEALANT JOINTS
- Sealant:
 - Manufacturer and reference: to contractor choice .
 - Colour: white .
 - Application: As section Z22 to prepared joints. Triangular fillets finished to a flat or slightly convex profile.
- 830 FIXING IRONMONGERY GENERALLY
- Fasteners: Supplied by ironmongery manufacturer.
 - Finish/ Corrosion resistance: To match ironmongery.
 - Holes for components: No larger than required for satisfactory fit/ operation.
 - Adjacent surfaces: Undamaged.
 - Moving parts: Adjusted, lubricated and functioning correctly at completion.
- 840 FIXING IRONMONGERY TO FIRE RESISTING DOOR ASSEMBLIES
- General: All items fixed in accordance with door leaf manufacturer's recommendations ensuring that integrity of the assembly, as established by testing, is not compromised.
 - Holes for through fixings and components: Accurately cut.
 - Clearances: Not more than 8 mm unless protected by intumescent paste or similar.
 - Lock/ Latch cases for fire doors requiring > 60 minutes integrity performance: Coated with intumescent paint or paste before installation.
- 850 LOCATION OF HINGES
- Primary hinges: Where not specified otherwise, positioned with centre lines 250 mm from top and bottom of door leaf. Hinges on existing door leaves are to be positioned as existing.
- 860 INSTALLATION OF EMERGENCY EXIT DEVICES
- Standard: Unless specified otherwise, install panic bolts/ latches in accordance with BS EN 1125.