

BRUCE CASTLE MUSEUM

GROUND FLOOR DOOR SCHEDULE

ALL AREAS

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Rev A

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REVISIONS

REVISION	DATE	REVISION	SIGN
A	26/10/23	Updates added in red text. Appendix A added to end of document	RG

NOTES RELATING TO THE FOLLOWING SCHEDULE:

- 1. CELLS WHICH APPLY TO MEND FUNDED AREAS ARE INDICATED WITH BLUE BACKGROUND.
- 2. ALL NEW IRONMONGERY WHICH IS BEING FITTED TO FIRE DOORS IS TO HAVE ALL NECESSARY INTUMESCENT HARDWARE PROTECTION TO SUIT THE FIRE RATING OF THE DOOR SET.

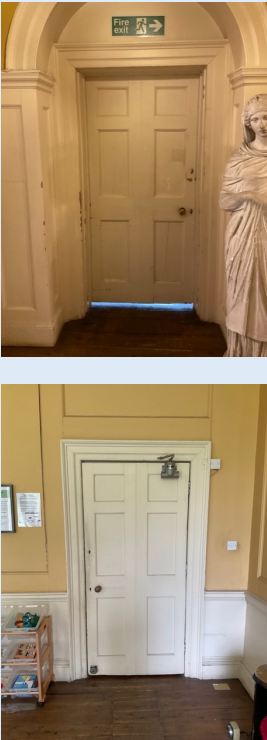
Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
GROUND FLOOR									
G1.Do4	G1 OLD KITCHEN		Existing opening size 1950 wide x 3300mm high Proposed door size 2no 494 x 2108 x 58mm	N/A	Existing opening with plastered reveals. No door present.		FD6oS	Proposal for this opening: Allow for infilling this existing opening in 1hr fire rated metal framed partition (Gypwall single frame system ref: A2o6o16 (A)(EN) or similar approved) to take a pair of double doors by Longden Doors UK Ltd (Allow approx. 1100 x 2165mm O/A structural opening size). Doors to be FD6oS rated 3 panel, flat panels with beaded surrounds - designed to match adjacent opening G12.Do3. Note that the existing radiator will need to be relocated away from this opening to achieve the line of fire compartmentation.	Proposed: 3no fire rated brass hinges per leaf. 2no unlacquered polished brass pull handles 2no push plates Allow for supply and fix of new Dorguard Smartsound Fire door retainers to base of each door leaf to enable doors to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of each door leaf.
G2.Do1	G2 KITCHEN		Existing door leaf: 835 x 1810 x 35mm New door leaf: 835 x 1810 x 58mm	Unknown	4 panel leaf with square shoulders.	Door not inspected on site. Panels appear to be split	FD6oS	Repairs to door leaf/frame/reveals: Existing door is to be removed and handed back to the employer. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Allow for supply and fix of new flush FD6oS leaf within existing door frame.	Proposed: 3no fire rated brass hinges 1no unlacquered polished brass pull handle 1no push plate Allow for supply and fix of new Dorguard Smartsound Fire door retainers to base of each door leaf to enable doors to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of each door leaf.

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G4.Do4	G4 MAIN GALLERY		470 x 2030 x 55mm (2 leaves)	Unknown	Pair of 3 panel doors, central panel is Georgian wired glazed, remaining panels are flush with beaded surrounds. Panels to G4 face have been previously upgraded (assumed for fire). Head and side reveals on G10 face are timber lined with raised and fielded panels.	Doors are held open generally on cabin hooks but when released they do not close in a controlled manor and are a Health and Safety Risk, they also do not close together fully. Services penetrations through frame. No fire and smoke seals.	FD30S	Repairs to door leaf/frame/reveals: Existing doors are to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Carry out making good to any areas on the door leafs / frame / architraves which have been affected by previous fixings or ironmongery removal, allow also for piecing in new timber to any previous repairs which have been carried out using filler. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Allow for planting a hardwood lipping onto underside of leaf to reduce the threshold gap between door and floor. Prepare and redecorate all in a satinwood finish. Ease door to prevent binding and allow it to close into frame - allow for straightening leaf to ensure that door fits well into the frame all round and that it latches closed. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Upgrade works to door leafs: Allow for carrying out intumescent paint upgrade to both door leafs. Paint to be applied to both faces of the leaf. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leafs to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for routing out door leaf (sides and head) to take a new combined fire and smoke seal - Head: 1no 15x4mm Lorient LP1504DS (white) Jambs: 1no 15x4mm Lorient LP1504DS (white) Meeting Stile (1no leaf only) : 1no 10x4mm Lorient LP1004 and 1no 10x4mm Lorient LP100DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 2 no large hinges per leaf (self closing) Large sliding bolt to head and base of each leaf. Cabin hook and eye to each leaf. Proposed: Existing hinges to be removed, make good door leafs / frame as necessary and replace with 3no fire rated brass hinges per leaf. Allow for the supply and fix of 2no unlacquered polished brass pull handles and 2no push plates. Remove existing cabin hooks and make good fixing positions to joinery on both door leafs and architraves. Allow for supply and fix of new Dorguard Smartsound Fire door retainers to base of each door leaf to enable doors to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of each door leaf.

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G6.Do1	G6 EAST WING GALLERY	 	950 x 2035 x 48mm	10mm	Appears to be a historic door leaf. 6 panel leaf, flat panels with beading to panel edges. Door reveals and head are timber panelled with beading to edges of panels.	Some minor opening-up along joint lines to panels/stiles/rails. Section of frame has been pieced in previously and there is cracking to joints. Original doorstop has been added to, to increase depth (see survey). Cable penetrations through door frame / linings. Intumescent seals exist to both edges and top of door leaf. Groove on closing stile is slightly too large for seal. 20mm gap at bottom of door.	FD3oS	Repairs to door leaf/frame/reveals: Existing door to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Reinstate timber linings in full and redecorate. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (include for filling any gaps from items which have previously been removed). Allow for any adjustments to the leaf to ensure that door fits well into the frame all round and that it latches closed. Carry out minor repairs to door leaf and plant hardwood lipping onto underside of leaf to reduce the threshold gap between door and floor to max. 10mm. Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Upgrade works to door leaf: Allow for carrying out intumescent paint upgrade to this door leaf. Paint to be applied to both faces of the leaf. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system.. Door leaf to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for removal and replacement of existing intumescent seals (sides and head) to take new combined fire and smoke seals (include for additional routing out as necessary to take new seals) - Head: 1no 10x4mm Lorient Lp10o4DS (white) Jambs: 1no 10x4mm Lorient Lp10o4DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 3 no. 102 x 35mm hinges (painted) all screws intact. Brass bun knobs operating latch. Allow for overhaul or replacement. All screws missing from rose backplate on G4 face. Keyhole (no escutcheons) to operate deadlock alongside knob latch. Separate union deadlock, operated by Key (brass escutcheons to both sides) at higher level in s/s finish. Redundant lock higher up on door (see photo), no keep exists for this lock. Overhead closer- old type Briton C in painted silver/grey colour. Magnetic hold open device fitted to bottom of leaf which is bracketed off floor. Proposed: Remove redundant lock and make good joinery and fixing positions. Remove existing magnetic hold open device and all redundant services to this location. Remove existing overhead closer and make good fixing positions to joinery. Supply and install new combined overhead closer and hold open device linked to the fire alarm system. <i>Note: Location of magnetic release button is to be agreed on site.</i> All remaining ironmongery to be assessed and removed if redundant or overhauled /replaced as necessary. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of door leaf.

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G6.Do6	G6 EAST WING GALLERY		2 no. leafs 627 x 2008 x 53mm	17mm	Replacement door leaf. Pair of 3 panelled doors, flat panels with beading and rebated meeting stiles. Door reveals and head are also timber panelled.	Leading leaf has intumescent seal to hinge stile (section between bottom and mid hinge is missing). No seal to top (rebate for seal exists). No seal (or rebate) to closing edge. Slave leaf has intumescent seal to hinge stile (section between bottom and mid hinge is missing). No seal to top (rebate for seal exists). Closing stile has intumescent seal (section missing between lock and lower bolt). Gap at bottom approx. 12mm.	FD30S	Repairs to door leaf/frame/reveals: Existing doors are to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Reinstate timber linings in full and redecorate. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (include for filling any gaps from items which have previously been removed). Allow for any adjustments to both leafs to ensure that doors fit well into the frame all round and they latch closed. Carry out minor repairs to door leaf and plant hardwood lipping onto underside of both leafs to reduce the threshold gap between doors and floor to max. 10mm. Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Upgrade works to door leaf: Allow for carrying out intumescent paint upgrade to both leafs. Paint to be applied to both faces of the doors. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system.. Door leaf to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for removal and replacement of existing intumescent seals (sides and head) to take a new combined fire and smoke seals (include for additional routing out as necessary to take new seals) - Head: 1no 10x4mm Lorient Lp1004DS (white) Jambs: 1no 10x4mm Lorient Lp1004DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 3 no. brass hinges to each leaf, all screws present. Leading leaf has oval brass knobs, brass escutcheons, and a deadlock. Additional arm at head of leading leaf- to hold open? Leading leaf has Briton 2005 S overhead door closer in brass finish. Slave leaf has top and bottom recessed bolts fitted in door edge. Proposed: Remove existing overhead closer and make good fixing positions to joinery. Supply and install new combined overhead closer and hold open device linked to the fire alarm system to each leaf. <i>Note: Location of magnetic release button is to be agreed on site.</i> All remaining ironmongery to be assessed and removed if redundant or overhauled as necessary. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of each door leaf.

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G7.Do1	G7 EXTERNAL ESCAPE		2no leafs 585 x 1950 x 44mm	N/A	Pair of existing external doors with arched glazed fanlight over. Doors Internally the doors have painted sheet metal panels fixed over internal faces with applied beading to give the impression of 3 panelled doors. Externally the doors appear to have originally been 2 panel with glazed upper panels (2 x 3 panes) which have been infilled with timber panels. Lower panel is almost flush with stiles / rails. Painted metal plate also located (full height) along closing edge of 1no door leaf as security feature.	Difficult to determine approximate age of these doors. These doors have numerous locks and bolts which shouldn't be present on emergency exit doors UNLESS there is a clear Management strategy in place for when the building is occupied.	N/R	Existing doors are to be removed and handed to the Employer. Existing frame is to be adapted to suit new outward opening single door leaf in accordance with drawing no: 7440-260.	Existing: 2no. hinges to each leaf. Leading leaf has 3no deadlocks, 1no emergency exit 'Turn to open' lock, 1no painted pull handle, top and bottom bolts, 3no escutcheons and a peephole viewer. Slave leaf has 1no painted pull handle and top and bottom bolts. Existing bolts to top of each leaf appear to be original and are quite decorative. Proposed: New escape hardware is to be provided on these doors and agreed with the Fire Officer / Building Control.

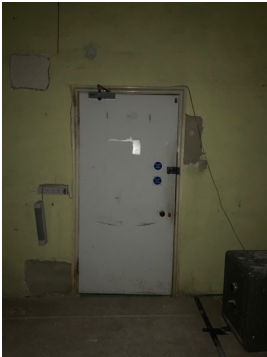
Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
G8.Do1	G8 FAMILY ROOM		945 x 2035 x 55mm	15mm	Appears to be a historic door leaf. 6 panel leaf, flat panels with beading to panel edges. Door reveals and head are also timber panelled. Appears to have been upgraded (panels) previously. Stops to room face aren't original. Frame stops have been added to – Assumed as part of previous upgrade. Gap at base of door varies between 20-30mm. Gap at head of door varies from 12-20mm. Minimum panel thickness = 15mm (this includes previous upgrade). Original panel thickness assumed to be 7mm	Some minor opening-up along joint lines to panels/ stiles/ rails. It appears that the panels may have been upgraded previously on the room face as the panel beads appear to be modern. Lower panels (viewed from corridor side) have significant cracking from top to bottom. These cracks aren't evident on room face of door due to (assumed) previous upgrade. Middle section of door appears to be warped as it doesn't close tight onto face of doorstep. Gap on hinge side of door also varies and is very tight to frame and somewhat larger from centre hinge upwards. Original doorstep has been added to, to increase depth. It appears that a small section of frame on the hinge side of the door frame may have been pieced in previously, and there is heavy cracking to the joint of the frame with the edge of the architrave on the hinge side. Intumescent seals exist to both sides and the top edge of door. Bottom corner on closing edge of door leaf is slightly worn and intumescent seal projects this could potentially be damaged.	FD30S	Repairs to door leaf/frame/reveals: Existing door to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Reinstate timber linings in full and redecorate. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (include for filling any gaps from items which have previously been removed). Allow for any adjustments to leaf to ensure that door fits well into the frame all round and it latches closed. Carry out minor repairs to door leaf and plant hardwood lipping onto underside of leaf to reduce the threshold gap between door and floor. Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Upgrade works to door leaf: Allow for carrying out intumescent paint upgrade to both leafs. Paint to be applied to both faces of the door. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leaf to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for removal and replacement of existing intumescent seals (sides and head) to take a new combined fire and smoke seals (include for additional routing out as necessary to take new seals) - Head: 1no 10x4mm Lorient Lp1004DS (white) Jambs: 1no 10x4mm Lorient Lp1004DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 3 hinges, all screws are present, probably require replacement for fire. Size is approx. 102-30mm. Round brass bun knobs which require overhaul. No latch exists currently. Latch plate also has a deadbolt which has key holes through face of door, room G8 has no escutcheon G7 side has a brass escutcheon. Union deadlock in satin stainless-steel finish, no escutcheon to keyhole on room G8 side, brass oval escutcheon to G7 side. Overhead closer is old style Briton C in painted silver/grey finish. Magnetic hold open device fitted to bottom of leaf and bracketed off floor. Proposed: Existing hinges to be removed, make good door leaf / frame as necessary and replace with 3no fire rated hinges. Allow for new horizontal latch/lock to suit existing knobs. Remaining ironmongery to be assessed and removed if redundant or overhauled as necessary. Remove existing magnetic hold open device and all redundant services and fixings to this location. Remove existing overhead closer and make good fixing positions. Supply and install new combined overhead closer and hold open device linked to the fire alarm system. <i>Note: Location of magnetic release button to be agreed on site</i> Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of door leaf.

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G9.Do1	G9 POSTAL HISTORY		977 x 2085 x 55mm	15mm	Appears to be historic door leaf. 6 panel leaf, flat panels with beading to edges. Door reveals and head are also timber panelled. Appears to have been upgraded (panels) previously. Stops to room face aren't original. Frame stops have been added to – Assumed as part of previous upgrade. Gap at base of door varies between 20-25mm. Minimum panel thickness = 15mm (this includes previous upgrade). Original panel thickness assumed to be 7mm.	Some minor splitting exists to mid rail on room side of door. Intumescent seals exist to both edges and the top of the door, the seals to the side edges have all been painted over and require replacement.	FD30S	Repairs to door leaf/frame/reveals: Existing door to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Reinstate timber linings in full and redecorate. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (include for filling any gaps from items which have previously been removed). Allow for any adjustments to leaf to ensure that door fits well into the frame all round and it latches closed. Carry out minor repairs to door leaf and plant hardwood lipping onto underside of leaf to reduce the threshold gap between door and floor to max. 10mm. Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Upgrade works to door leaf: Allow for carrying out intumescent paint upgrade to both leafs. Paint to be applied to both faces of the door. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leaf to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for removal and replacement of existing intumescent seals (sides and head) to take a new combined fire and smoke seals (include for additional routing out as necessary to take new seals) - Head: 1no 10x4mm Lorient Lp1004DS (white) Jambs: 1no 10x4mm Lorient Lp1004DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 3 hinges all painted out, 1no. screw is missing from bottom hinge plate. Hinges appear to be original- size is approx. 110x30mm. Oval, brass knobs, G10 side has no screw fixings to rose. Both knobs require overhaul or replacement. Knobs operate latch, which also has a deadbolt facility with 2no. escutcheons – painted over on each face. Chubb 5 lever Mortice lock in satin, stainless-steel finish with 2no. oval escutcheons in a brass finish. Overhead closer – Britain 2002 S brass finish – closes well into frame. Magnetic hold open device fitted to the bottom of leaf which his bracketed off the floor. Proposed: All ironmongery to be assessed and removed if redundant or overhauled as necessary. Remove existing magnetic hold open device and all redundant services and fixings to this location. Remove existing overhead closer and make good fixing positions. Supply and install new combined overhead closer and hold open device linked to the fire alarm system. <i>Note: Location of magnetic release button to be agreed on site</i> Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of door leaf.

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G10.Do1	G10		590 x 1990 x 45mm (2 leaves)	Unknown	Pair of 2 panel doors, upper panel is Georgian wired glazed, remaining panels are flush with beaded surrounds. Panels to G12 face have been previously upgraded (assumed for fire). Head and side reveals on G10 face are timber lined with raised and fielded panels. Opening is arched on G10 face, with arched infill panel above doors.	Doors are held open generally on cabin hooks but when released they snap closed and are a Health and Safety Risk, they also do not close together fully. Services penetrations through frame and head panel. No fire and smoke seals.	FD30S	Repairs to door leaf/frame/reveals/head panel: Existing doors are to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Carry out making good to any areas on the door leaves / frame and architraves which have been affected by previous fixings or ironmongery removal, allow also for piecing in new timber to any previous repairs which have been carried out using filler. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Allow for planting a hardwood lipping onto underside of leaf to reduce the threshold gap between door and floor. Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Existing over panel is to be upgraded on G12 face to provide 30 minute fire resistance using 15mm Supalux board (or similar), in painted finish to match existing. Upgrade works to door leaves: Allow for carrying out intumescent paint upgrade to both door leaves. Paint to be applied to both faces of the leaf. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leaves to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for routing out door leaf (sides and head) to take a new combined fire and smoke seal - Head: 1no 15x4mm Lorient LP1504DS (white) Jambs: 1no 15x4mm Lorient LP1504DS (white) Meeting Stile (1no leaf only) : 1no 10x4mm Lorient LP1004 and 1no 10x4mm Lorient LP100DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 2 no large hinges per leaf (self closing) Sliding bolt to head and base of one leaf. Brass pull handle with back plate to each side of right hand leaf (viewed from G10). Door retainer (?) to head of right hand leaf (viewed from G10). Cabin hook and eye to each leaf on G10 face. Proposed: Existing hinges to be removed, make good door leaves / frame as necessary and replace with 3no fire rated brass hinges per leaf. Remove existing cabin hooks and make good fixing positions to joinery on both door leaves and reveal linings. Remove sliding bolts and door retainer and make good fixing positions to joinery and frame. Allow for supply and fix of new Dorguard Smartsound Fire door retainers to base of each door leaf to enable doors to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of each door leaf.

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G12.DO1	G12 BRUCE CASTLE HISTORY		710 x 2320 x 45mm (2 leaves)	Unknown	Pair of 3 panel doors with rebated meeting stiles, panels are flat with beaded surround to panels. Arched over panel infill to head of doors is panelled to match doors. Head and reveal linings are also lined with flat panels. Panels to G12 face may have previous upgrade to back face of panels.	Decorative finish to these doors is poor due to build up of paint and condition of doors. Condition of meeting stiles and bottom rail is poor. Gap exists at top of 1no leaf	FD30S	Repairs to door leaf/frame/reveals/head panel: Existing doors are to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Allow for piecing in new sections of timber to head, base and leading edge (full height) of existing doors to reduce any gaps between door, frame and floor. In new joinery profiles to match existing. Carry out making good to any areas on the door leafs / frame and architraves which have been affected by previous fixings or ironmongery removal, allow also for piecing in new timber to any previous repairs which have been carried out using filler. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Existing over panel is to be upgraded on G4 face to provide 30 minute fire resistance using 9mm Supalux board (or similar) sandwiched between existing over panel and new panelled lining to G4 face which is to be constructed in timber in details to match existing, all in painted finish. Upgrade works to door leafs: Allow for carrying out intumescent paint upgrade to both door leafs. Paint to be applied to both faces of the leaf. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leafs to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for routing out door leaf (sides and head) to take a new combined fire and smoke seal - Head: 1no 15x4mm Lorient LP1504DS (white) Jambs: 1no 15x4mm Lorient LP1504DS (white) Meeting Stile (1no leaf only) : 1no 10x4mm Lorient LP1004 and 1no 10x4mm Lorient LP100DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 2 no large hinges per leaf (self closing) Sliding bolt to head and base of one leaf. Horizontal brass sliding bolt to mid rail on G12 face. Brass knob to each side of right hand leaf (viewed from G4). Deadlock with keyhole. Cabin hook and eye to each leaf on G10 face. Proposed: Existing hinges to be removed, make good door leafs / frame as necessary and replace with 3no fire rated brass hinges per leaf. Remove existing cabin hooks and make good fixing positions to joinery on both door leafs and reveal linings. Remove sliding bolts and make good fixing positions to joinery. Remove deadlock and infill all associated holes with timber piece repairs to match existing doors. Allow for supply and fix of new Dorguard Smartsound Fire door retainers to base of each door leaf to enable doors to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in polished brass finish to both faces of each door leaf.

Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
G12.DO3	G12 BRUCE CASTLE HISTORY	Photo not available	Assume 2no 550 x 2100 x 50mm	Unknown	Pair of 3 panel doors, panels are flat with beaded surround to panels. Head and reveal linings are also lined with flat panels. Opening mechanism is very unique – doors open in opposite directions. Pulley type mechanism slides into side pockets which are cut into opening reveals at high level.		FD30S	Repairs to door leaf/frame/reveals/over-head cupboard: Existing doors are to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Ensure that fire compartment line is maintained fully behind pockets to side reveals which are formed to allow the unique opening mechanism of this door to operate. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Carry out making good to any areas on the door leafs / frame and architraves which have been affected by previous fixings or ironmongery removal, allow also for piecing in new timber to any previous repairs which have been carried out using filler. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Prepare and redecorate all in a satinwood finish. Allow for fire stopping any penetrations through frame with a suitable intumescent product. <i>Provisional Item: Existing base to cupboard forming door head is to be reviewed for fire protection. Allow for upgrading within cupboard with 15mm Supalux board if required.</i> Upgrade works to door leafs: Allow for carrying out intumescent paint upgrade to both door leafs. Paint to be applied to both faces of the leaf. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leafs to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for routing out door leaf (sides and head) to take a new combined fire and smoke seal - Head: 1no 15x4mm Lorient LP1504DS (white) Jambs: 1no 15x4mm Lorient LP1504DS (white) Meeting Stile (1no leaf only) : 1no 10x4mm Lorient LP1004 and 1no 10x4mm Lorient LP100DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: Retain all ironmongery as existing. Proposed: 4no unlacquered, polished brass finger plates. Allow for installation of intumescent pads behind existing hinges.

Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
G13.Do1	G13		960 x 2200 x 55mm	Unknown	6 panel door, panels are flat with beaded surround to panels. G13 face has been overboarded with a flush panel (previous fire upgrade?)	<u>Note:</u> Panel to reverse of leaf contains asbestos (sticker fixed to leaf)	FD3oS	Repairs to door leaf / frame and architrave: Existing door leaf to be retained. Carefully remove existing timber linings to the reveals, head and threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Carry out minor repairs to door leaf and plant hardwood lipping onto underside of leaf to reduce the threshold gap between door and floor. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Prepare and redecorate all in a satinwood finish. Ensure that door leaf fits well into the frame all round and that it latches closed. Upgrade works to door leaf: Allow for removal and disposal of Asbestos panel (under all necessary licences and in controlled conditions) prior to carrying out intumescent paint and card upgrade to this door leaf. Paint to be applied to both faces of the leaf, card to room face only. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leaf to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for routing out door leaf (sides and head) to take a new combined fire and smoke seal - Head: 1no 15x4mm Lorient Lp15o4DS (white) Jambs: 1no 15x4mm Lorient Lp15o4DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 2 no hinges, painted. Pair of brass bun knobs operating horizontal mortice latch / lock. Asbestos sticker also placed over keyhole position on S13 face, with covered brass escutcheon to S13A face. Redundant deadlock – unsure if lock still exists. Rim nightlatch / lock with round brass escutcheon to S13A face and nightlatch fitting to S13 face in grey / black finish. Modern Briton overhead door closer to S13 face in silver / grey finish. Proposed: Existing hinges to be removed, make good door leaf / frame as necessary and replace with 3no fire rated hinges. Allow for removal of redundant deadlock casing (if this still exists) from door / frame edge. Remaining ironmongery to be assessed and removed if redundant or overhauled as necessary. Supply and fix new 76mm dia. 'Fire door keep shut' signage in polished brass finish to both faces of door leaf.

Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
G13A.Do1	G13A		755 x 1965 x 40mm	Unknown	Modern 4 panel door set within modern glazed screen. Glazing is GWG, door has flat panels with square shoulders.		Not required	Allow for complete removal of the door and associated screen and for any making good works as required to adjacent surfaces and finishes.	
G14.Do2	G14		800 x 1980 x 44 mm	N/A	Modern flush door leaf with Georgian wired glazed fanlight above.	Existing door is held open on a cabin hook	FD30S	New door leaf / repairs to frame: Existing door leaf is to be removed and replaced with new FD30S flush fire door with 150x760mm rectangular glass pane, primed for painting on site. Door leaf to incorporate fire and smoke seals. Allow for timber piece repairs/making good to frame and architrave as necessary (following removal of existing door leaf and associated ironmongery). Prepare and redecorate all in a satinwood finish.	Existing: 2 no hinges, painted. Pair of SAA lever handles operating mortice latch / lock. SAA Deadlock with thumbturn release. Black cabin hook. New Ironmongery: Allow for supply and fix of 3no new fire rated S/S hinges. Allow for supply and fix of 1no pair SAA lever handles with round rose back plate and suitable latch. Allow for supply and fix of new SAA deadlock with thumbturn release. Supply and install new SAA overhead door closer. Allow for supply and fix of new Dorguard Smartsound Fire door retainer to base of door leaf to enable door to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in S/S finish to both faces of door leaf.

Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
G14.D09	G14E		760 x 1980 x 44 mm	N/A	Modern flush door leaf with Georgian wired glazed fanlight above.		FD30S	New door leaf / repairs to frame: Existing door leaf is to be removed and replaced with new FD30S flush fire door, primed for painting on site. Door leaf to incorporate fire and smoke seals. Allow for timber piece repairs/making good to frame and architrave as necessary (following removal of existing door leaf and associated ironmongery). Prepare and redecorate all in a satinwood finish.	Existing: Assume 2 no hinges, painted. Pair of SAA lever handles operating mortice latch / lock. New Ironmongery: Allow for supply and fix of 3no new fire rated S/S hinges. Allow for supply and fix of 1no pair SAA lever handles with round rose back plate and suitable latch. Allow for supply and fix of new SAA deadlock with thumbturn release. Supply and install new SAA overhead door closer. ~~Allow for supply and fix of new Dorguard Smartsound Fire door retainer to base of door leaf to enable door to be held open when room is in use and close upon activation of the fire alarm.~~ Supply and fix new 76mm dia. 'Automatic fire door keep shut' signage in S/S finish to both faces of door leaf.

Door ref.	Room ref.	Photos	Door Size	Min. Panel Thickness	Description of existing door	Notes/Existing condition	Fire Resistance Required (Aspirational requirement)	Proposed Works	Ironmongery
G16.Do1	G16 LECTURE HALL		510 x 2030 x 45mm (2 leaf)	Unknown	Pair of 3 panelled doors, flat panels with beading. Assume that meeting stiles are not rebated. Door reveals and head are also timber panelled.	Doors were locked during inspection, condition appears to be ok. Services penetrations through frame and head.	FD30S	Repairs to door leaf/frame/reveals/head panel: Existing doors are to be retained. Carefully remove existing timber linings to the reveals, head and door threshold and install PFC Corofil CW mineral fibre insulation slabs to voids, fixed in place using CW galvanised steel retaining brackets in accordance with manufacturers details and recommendations. Carry out repairs as necessary to reveal linings and reinstate in full prior to redecoration. Carry out making good to any areas on the door leafs / frame and architraves which have been affected by previous fixings or ironmongery removal, allow also for piecing in new timber to any previous repairs which have been carried out using filler. Allow for removal of redundant ironmongery and for timber piece repairs/making good to leaf/frame/architrave as necessary (following removal). Prepare and redecorate all in a satinwood finish. Ensure that doors fit well into the frame all round and that they close together adequately. Allow for fire stopping any penetrations through frame with a suitable intumescent product. Upgrade works to door leafs: Allow for carrying out intumescent paint upgrade to both door leafs. Paint to be applied to both faces of the leaf. Refer to Fig. 1.0 in Appendix A of this document for details of intumescent paint system. Door leafs to be finished with top coat of satinwood. Application to be in full accordance with Envirograf details and specification. Allow for routing out door leaf (sides and head) to take a new combined fire and smoke seal - Head: 1no 15x4mm Lorient LP1504DS (white) Jambs: 1no 15x4mm Lorient LP1504DS (white) Meeting Stile (1no leaf only) : 1no 10x4mm Lorient LP1004 and 1no 10x4mm Lorient LP100DS (white) <u>NOTE:</u> Fire and smoke seals must not be painted.	Existing: 2 no large hinges, painted. Deadlock with SAA escutcheon. 1no large sliding bolt to head of door leaf. New Ironmongery: Allow for supply and fix of 3no new fire rated S/S hinges. Allow for supply and fix of 2no new SAA finger plates to G15 face of doors with 2no SAA pull handles to room face. Allow for supply and fix of new SAA deadlock with thumbturn release. Supply and install 2no new SAA overhead door closers. Allow for supply and fix of new Dorguard Smartsound Fire door retainers to base of both door leafs to enable doors to be held open when room is in use and close upon activation of the fire alarm. Supply and fix new 76mm dia. 'Automatic fire door keep clear' signage in S/S finish to both faces of door leaf.

APPENDIX A

Fig 1.o

ENVIROGRAF PRODUCT 42 UPGRADING DETAILS USING INTUMESCENT PAINT SYSTEM ONLY

Upgrading process for doors with panel thickness at least 9mm thick for 30 minutes
Only paint the face of the door

CLEAR SYSTEM

1 coat of HW/AP Primer - at 10-12m² per litre
Wet Film 85 µm - Dry Film 50 µm Water-based

2 coats of HW02/E - at 8m² per litre / per coat
Wet Film 125 µm - Dry Film 75 µm Water-based

Apply Top Coat
HW/EXCEL Clear - at 1 coat @ 10m² per litre
Wet Film 100 µm - Dry Film 60 µm Solvent-based

How to apply Intumescent Coatings - see Page 10

WHITE or COLOURED SYSTEM

1 coat of HW/AP Primer - at 10-12m² per litre
Wet Film 85 µm - Dry Film 50 µm Water-based

2 coats of HW01/F - at 8m² per litre / per coat
Wet Film 125 µm - Dry Film 75 µm Water-based

1 coat of HW/04S Undercoat - at 12m² per litre
Wet Film 85 µm - Dry Film 50 µm Solvent-based

You can apply your own decorative top coat after this system

Important Notes

Thickness in microns is per coat.

Ensure the doors are free from oil and grease

Make sure that Intumescent coating is applied to the risk side part of the doors (room side, including beads).

Every coat should be allowed to dry thoroughly before applying another (especially important in clear system).

4 Top Coat has to be applied on the same day (do not leave without a Top Coat overnight).

Note: This description also applies to Raised & Fielded doors with a minimum fielded thickness of 8mm.

SPECIAL NOTES ON COATINGS
Previously painted or varnished doors DO NOT need to be stripped, provided that the paint or varnish is in good order. Follow normal preparation procedures.

Contact Technical Office regarding veneers

SPECIAL NOTES ON STRIPPING
If the door needs to be stripped, ensure that all the stripping material has been cleaned off the door and off the grain of the wood. Do not apply Intumescent coating for about 6 weeks after stripping. During those 6 weeks daily wipe down with damp cloth.

NB: All knots must be appropriately treated before the application of Envirograf® products.

Fig 2.o

ENVIROGRAF PRODUCT 42 UPGRADING DETAILS USING INTUMESCENT PAINT AND CARD SYSTEM

Upgrading process for doors with panel thickness between 6-9 mm thick for 30 minutes
Only paint the face of the door

CLEAR SYSTEM

1 coat of HW/AP Primer - at 10-12m² per litre. Coat all woodwork except panels Water-based
Wet Film 85 µm - Dry Film 50 µm

2 coats of HW02/E - at 8m² per litre / per coat . Coat all woodwork including beads, except panels
Wet Film 125 µm - Dry Film 75 µm Water-based

1 thin coat of Stabond on panels only
Solvent-based

Apply IA Adhesive to the back of the veneer and the panels Water-based

Apply Veneer to the panels - see below for details

Apply Top Coat
HW/EXCEL Clear - at 1 coat @ 10m² per litre
Wet Film 100 µm - Dry Film 60 µm Solvent-based

WHITE SYSTEM

1 coat of HW/AP Primer - at 10-12m² per litre. Coat all woodwork except panels Water-based
Wet Film 85 µm - Dry Film 50 µm

2 coats of HW01/F - at 8m² per litre / per coat . Coat all woodwork including beads, except panels
Wet Film 125 µm - Dry Film 75 µm Water-based

1 thin coat of Stabond on panels only
Solvent-based

Apply IA Adhesive to the grey side of the card and the panels Water-based

Apply Card to the panels - see below for details

After 4 hours apply HW04/S Undercoat to the whole face of door & panels
Wet Film 100 µm - Dry Film 60 µm Solvent-based

You can apply your own decorative top coat after this system

Intumescent Card Application

Thickness in microns is per coat.

1. Scrape off all loose paint (not applicable for stained or polished doors).

2. Thoroughly rub down the door panels (inc. corners and edges) with coarse glass paper, providing a good key for the adhesive.

3. Thoroughly clean the panels, stiles, and rails of the door. Then coat the panels with the supplied Envirograf® Product 93 (Stabond).

4. Measure the panel size and cut out the veneer/ card required.

5. Once the Stabond is dry, apply IA adhesive to the panel and grey side of the veneer/card.

6. Apply the veneer/card or fire card to the panel.

7. Using a flexible spatular firmly press the veneer/card to the panel ensuring absolute contact over the whole surface.

8. An example of existing panel doors fully upgraded to Fire Rated Doors

744o/Bruce Castle/Drawings/Ground floor door Schedule Sept 2023