

**General specification notes for all internal doors**

The door drawings are to be read in conjunction with the architect's door types document, general arrangement plans, fire strategy drawings and the Hoare Lea security design package. See also the NBS specification documents.

The drawings must also be read in conjunction with the door schedule which gives specific information on each door including fire requirements, security, accessibility and acoustics.

The existing door drawings show details of a specific door which represents the door type described in the title block. Width and height dimensions will vary between specific doors which have this door type.

Dimensions for each door are given in the door schedule. However, dimensions of doors and openings must be checked on site before new replica items are manufactured. All contractor's proposals and shop drawings are to be approved by architect before manufacture.

Doors to comply with all relevant codes and standards (See also NBS specification).

Door installation must comply with BS 8300-2:2018 and Approved Document Part M of the Building Regulations with particular attention to opening and closing forces on the doors and the need to properly adjust door closers to achieve compliance.

**Acoustic doors in general:** Acoustic specification is covered in the NBS specification document. All replica acoustic doorsets should have mechanical drop seals and full perimeter acoustic compression seals which are not interrupted by locks/hinges/closers/other hardware (eg Double batwing seals). Double acoustic doorsets should have an overlapping astragal with integral acoustic compression seal between the doors (such that one leaf needs to be opened before the other). Rw30 doors should have minimum surface mass 25kg/m2 and Rw35 doors should have minimum surface mass 35kg/m2. Integral glazing should at least match the performance of the overall doorset (eg 6mm glazing for Rw30 doorsets and 8.8mm acoustic laminate for Rw35 doors).

**Hold open devices for fire doors:** The door schedule indicates where hold open devices will be required. These devices hold the door open and release on sounding of the fire door. These will be Assa Abloy DC700 with G460 door closers with Cam-Motion technology and guide rail with electro-mechanical hold-open device for single leaf doors certified in compliance with EN1154/EN1155, size 3-6. Hold-open angle continuously adjustable between 70°-130°. Include all accessories as advised by manufacturer.

**Automation:** Please see the door schedule for automation requirements. Automatic door operators will be ASSA ABLOY Entrance systems SW300 with Dual Action Arm - 70mm high universal heavy duty (HD) electro-mechanical operator to comply with European standards. Mounted onto a suitable transom by others. This operator will allow the door to automatically swing in one direction, and can be manually pushed open in the opposite direction. The unit will spring close when opened manually. It is suitable for inward opening doors that require an emergency open outwards facility.

**Replica doors with a fire rating:** Where replica doors have a fire resistance requirement noted on the door schedule, a specific design and specification is required which is currently being produced by a specialist fire consultant. This detailed information will be available in due course but is currently the subject to rigorous testing and certification procedures. Replica doors to be designed, tested and certified in accordance with BS EN 1634-1:2008, BS 476 and BS9999.

At this stage, for the purposes of pricing replica fire doors please assume that the replica door is as the design of the existing door but including the following features to be supplied and installed:

- Solid timber construction
- Use of suitable fire proof fixings and glue to all joints
- Use of suitable intumescent sealant to joints of raised and fielded panels
- Use of fire integrity / insulating glazing
- Use of suitable intumescent glazing gasket for all glazing units
- Hinges suitable for use in a fire resisting construction
- Lock suitable for use in a fire door
- Lever latch suitable for use in a fire door
- Floor springs suitable for use on a fire door
- Door head closers suitable for use on a fire door to comply with BS 8300-2:2018 (brass finish)
- Automatic opener suitable for use on fire door (Assa Abloy SW300)
- Intumescent strip to edges of door
- Smoke seal to edges of door (as applicable)
- Allow for replacement of door frame
- Allow for a suitable fire resisting PU foam between outside of new door frame and compartment wall. This will depend on the nature of the gap between the wall and frame and the finishes present. For the purposes of costing only, allow for the use of Pyroplex fire rated foam for insulation and integrity tested to EN 1366-4 and BS 476: Part 20:22 with Certifire TS40 and Certifire CF828 approval installed in accordance with manufacturer's instructions.
- A brass disc engraved with the word "fire door keep shut" must be screwed on to both sides of each door leaf. The location is to be confirmed and approved by the architect and fire consultant.

When final fire door designs are produced and testing is complete allow for liaising with the fire specialist to discuss and agree a manufacturing process which will satisfy the certification requirements. Please note that to complete the manufacture of certified fire doors will require oversight from the fire specialist who will need to verify the process of manufacture.

Where existing architraves are removed to allow for fire proofing around existing door frames preserve for reuse.

Where new architraves are required match existing profile, material, finish and texture.

**Removal of Existing Doors and Salvage**

For existing doors which are to be removed please allow for the following:

**Photographs**

Digitally photograph existing door(s) to be removed with one non-shaken photograph on each side of the door, ensuring that the door occupies the entire picture. Catalogue the digital photograph files in a folder named with the existing door number. This must be submitted to the Architect as an historical record on a USB memory stick.

**Glazing**

Where doors have original copper or leaded framed glazing units, featuring 9 small panes:

Before removing door leaves carefully remove the glazed units and wrap in bubble wrap. Package up so as to avoid breakage during transport and storage.

Label up the packages with the existing door number to make it clear where the units have come from. Label securely so that identification is maintained through the removal, transportation and storage process.

Transport the units off site as fragile items taking great care to avoid breakage. Place units in safe storage off site away from danger of breakage, moisture and extremes of temperature.

All removed original glazing units are to be recorded in an inventory listing a description of the unit, glazing finish, and overall sizes. It is intended that all original glazing units will be stored to form a collection that can be cleaned and reused on replica doors which are not fire doors. A copy of the inventory must be supplied to the Architect upon completion of the removal works.

Original glazing units are to be carefully cleaned with clean tepid water and very dilute detergent prior to reuse. Do not use aggressive cleaning chemicals or abrasive cleaning agents. Use a soft clean cloth and chamois leather and do not scratch the glass with grit of debris.

Reuse glazing units on replica fire doors. This will be on a case by case basis and must be agreed with the Architect and Conservation Officer. Discussion will be required to coordinate this.

**Door Leaves**

Label up existing door leaves with door number and location. Label securely so that identification is maintained throughout the removal, transportation and storage process.

Carefully remove existing doors and transport to safe storage off site - Do not dispose of.

Measure the doors in full detail and produce shop drawings to a standard good enough for an accurate replica to be produced from them.

Make a note of the timber type used.

Note on the drawing the original door number.

Drawing must be submitted to the Conservation Officer and Architect as an historical record of the door.

**Floor spring closers**

Carefully remove existing floor springs and associated pivot hinges / fittings / fixings / plates. Securely package together and label with door number as described above. Allow for transport off site to safe storage.

All removed original glazing units are to be recorded in an inventory listing a description of the unit, manufacturer (if this can be identified), overall sizes and whether or not the unit can be refurbished. It is intended that all original floor spring units will be stored to form a collection that can be refurbished and potentially reused on replica doors. A copy of the inventory must be supplied to the Architect upon completion of the removal works.

Refurbish floor springs for reuse on replica doors.

**Ironmongery**

Remove all ironmongery from door and frame including but not limited to bolts, locks, security, fixings, push plates, escutcheons, hinges, handles, knobs, kick plates.

All removed ironmongery to be securely packaged together and labelled with door number as described above. Allow for transport off site to safe storage.


All removed items to be recorded on an inventory listing the item type, its material finish, and manufacturer (if known).

All removed ironmongery will be stored to form a library of original ironmongery that can potentially be refurbished and reused on replica doors.

Original ironmongery items, such as handles, are to be refurbished and reused on the replica door where this is feasible and agreed as appropriate with the Architect and Conservation Officer.

**Contemporary Items**

Remove from door and frame all contemporary electromagnetic locking devices and associated fitting and fixtures. Contemporary locking electromagnetic locking systems are to be disposed of properly off site. Ironmongery which is clearly modern in nature, such as silver finished or chromium fittings, latch locks and key pad locks are to be disposed of properly off site.

<p><b>Notes:</b></p> <p>Drawings are based on survey data and may not accurately represent what is physically present.</p> <p>Do not scale from this drawing. All dimensions are to be verified on site before proceeding with the work.</p> <p>All dimensions are in millimeters unless noted otherwise.</p> <p>Purcell shall be notified in writing of any discrepancies.</p>	<p>P00 18 Dec 2019</p>	<p><b>CLIENT</b> Lendlease</p>	<p><b>DRAWING TITLE</b> General Specification Notes for Internal Doors</p>	<p><b>JOB NUMBER</b> 238664</p>										
						<p>First Issue 27 Sep 2019 RH RH</p>	<p><b>PROJECT</b> Camden Town Hall</p>	<p><b>SIZE &amp; SCALE</b> A3L As Noted</p>	<p><b>DRAWING NO.</b> CTH-PUR-XXX-DR-31-A-8040</p>					
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