






FIRE DOORS - GENERAL SPECIFICATIONS AND OVERVIEW

Fire Door Provision In UCL Buildings - what you need to know:

 <p>Mandatory</p>	<p>Mandatory - all doors on main traffic and circulation routes, corridors, lobbies or stair enclosures to be provided with Vision Panels (VP);</p> <p>Mandatory - fire doors to be provided on all Laboratory and Sleeping Accommodation;</p> <p>Mandatory - blue door signs must be provided for all fire doors as a legal instruction (see table below);</p> <p>Mandatory - auto opening devices for Mobility Impaired Persons (MIP) on certain fire doors or locations may NOT be acceptable (See UCL T/Note TN001);</p> <p>Mandatory - clear pyro fire glazing must be clearly identified by means of an 'Acid Etching' in the corner of the pane giving the trade name & marked with BS 476 Part 22. If acid etched trade name / BS standard is NOT visible, then the glass <u>will not</u> be accepted as meeting Fire Rated Glazing (FRG) and will need to be replaced for correct specification and clear identification;</p>
 <p>Not Acceptable</p>	<p>Opening Direction - fire doors on circulation routes NOT opening in the direction of escape (<i>unless exceptional circumstances i.e. heritage</i>) - inward opening doors against escape limits room and/or capacity to 60 persons only;</p> <p>Double Swing Fire Doors - in locations other than doors forming a mid-corridor smoke break;</p> <p>Inner Rooms – doors to 'Inner Rooms' not provided with Vision Panels;</p> <p>Vision Panels (VP) - not providing VP in doors to laboratories, kitchens and areas where hazardous items such as chemicals or glassware pass through;</p> <p>Perko Fittings - not normally acceptable on standard doors (<i>but may be acceptable on ½ leafs due to size restrictions</i>);</p> <p>Air Transfer Grilles / Letter Boxes - fire doors should not have any grilles or letter boxes where no alternative, to be discussed with UCL Fire Safety Manager;</p>
 <p>Acceptable</p>	<p>Small Leafs - fire doors with ½ leaves to be fitted with a self-closing device either using an overhead unit where practical or Perko type unit for smaller leafs;</p> <p>Inner Rooms - generally doors to 'Inner Rooms' should be provided with VP;</p> <p>Smoke Seals - recommended that the smoke seals fitted to all new & upgraded fire doors are the <u>brush type</u> and NOT rubber blade type;</p> <p>Security Doors (SR2/SR3/SR4) - fire rated use Stafford Bridge Doors (see below);</p> <p>Security Doors (SR2/SR3/SR4) - fire rated use ASSA Abloy Doors also (see below);</p>

- **Definition of a Fire Door** - a door assembly, which is designed to hold back fire and smoke for a designated period and has been tested under conditions for door assemblies described in British Standard 476 Part 22;
- **Fire Door Guidance** - British Standard **8214-2008** (*Code of Practice for Fire Door Assemblies*).

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1.0. General Information

1.1. **Standards** – UCL's general fire door design standard preference for the fire performance of timber door sets either:

- (a). Use doors and door sets meeting **BS 476: Part 22**;
- (b). Use doors and door sets meeting BS EN 1634-1;





1.2. **Third Party Installation** – for compliancy fire doors and fire door sets to be installed under UKAS third party accreditation:

- The most robust third party scheme is Building Research Establishment (BRE) Loss Prevention Certification Board standard for installation **LPS1271**;
- Exova BM Trada site installer scheme is acceptable under their manufacture Q-Mark scheme;

1.3. Fire Door Key

Key:	Description:	Key:	Description:
FD30	A Fire Door with 30 minutes Integrity properties (<i>also shown as FD30</i>) and complete with intumescent seals	FD60	A Fire Door with 60 minutes Integrity properties (<i>also shown as FD60</i>) and complete with intumescent seals
(S)	Smoke Seals (use brush type as generally found to wear better than rubber blade types)	SC	Self-closing device complying with BS EN 1154: Door Closers
FRG 30 / 60	Fire Resisting Glazing - 30 minutes Resistance including integrity (FRG30 or FRG60) Fire Resisting Glazing integrity and insulation (FRG30/30) or (FRG60/60)	FD30(S) SC & VP	FD30(S)SC&VP - Fire Door 30 or 60 (Smoke Seals) Self Closing & Vision Panel required
VP	Vision Panel - required (<i>if within a fire door then glazing must meet FRG 30/60</i>)	PB	Push Bar - emergency opening device complying with BS EN 1125

- 1.4. **Fire Door Signs** - all fire doors **MUST** be signed using one of the following standard signs (*as a minimum it is recommended 80 mm x 80 mm Ridged Plastic signs in size with 4 x screw holes*) but, others styles may be provided appropriate to door design & surfaces:

Sign, Colour & Pictogram	Description, Uses and Conventions
	1. 'Fire Door Keep Shut / Closed' - positioned at eye level, on both faces of each fire doors leaf that are fitted with a self-closing device - include any ½ leaves which should also be signed in addition to the main door leaf.
	2. 'Fire Locked Shut' - used on fire doors that are not fitted with self-closing devices (<i>for example cleaner's cupboard, some types of stores, plant rooms & service risers</i>) - sign fixed to outer door face, at eye level.
	3. Automatic Fire Door Keep Clear - used on doors connected to 'fire door hold open devices' that release the doors on activation of the fire alarm system. Signs to be placed on the visible open leaf at eye level when the door is held open by device; this is to avoid obstructing the fire door on being released automatically. 3a. Provide a fire door keep shut sign on the door leaf facing to the wall at eye level when held open.
	4. Fire Escape Doors - provided generally on external door leaves to prevent obstructions that might impede the opening of the fire escape door in an emergency. Fitted on the external face of a fire exits to prevent vehicles park to close, cycles or rubbish bins being placed in front of doors etc.
Glazed Fire Doors & Partitions	Note - on fire rated glazed partitions & door sets we strongly recommend that the fire signs above be incorporated into the 'manifestation' to ensure compliance.

2.0. Fire Doors (General)

2.1. Where fire doors are generally required:

- All doors to escape stair enclosures (*both internal & external and protected fire routes*);
- Office & reception accommodation particularly if off stairs and single escape routes etc. (*note - not required where there is escape in two directions or relaxed if automatic fire detection (AFD) has been provided in each room off the dead end*);
- Laboratory and equipment rooms;
- Cleaners' cupboards and storage rooms;
- Service risers access doors and hatches;

- Electrical switch cupboards on Means of Escape;
- Plant equipment rooms and switch rooms;
- In some locations, information systems / server cupboards or rooms;

2.2. Halls of Residences - where fire doors are generally required:

- All bedrooms (including within cluster flats);
- All cluster flat kitchens;
- All studio flats;
- All cleaner cupboards / laundry rooms / storage rooms or cupboards;
- All service riser access doors and hatches;
- Electrical switch cupboards (particularly on corridors and lobbies);
- Plant equipment rooms and switch rooms;
- All information systems / server cupboards or rooms;
- Depending on location, office & reception accommodation;

2.3. Fire Resisting

Generally, indicates that the construction is designated as capable of resisting the passage of flame and smoke, and providing insulation as defined in under the prescribed conditions of test appropriate to such construction in accordance with the current British Standard 476.

- **FD30** doors generally should not be less than 44mm in thickness;
- **FD60** doors generally should not be less than 54mm in thickness;

2.4. Door Widths and Means of Escape:

The following guide can be used to determine the general capacities of escape routes based on clear opening door widths:	
Door Widths:	Numbers of persons able to pass through:
750 mm (absolute minimum width)	60 persons (normal risk)
850 mm	110 persons (normal risk)
950 mm (minimum width for wheelchairs)	160 persons (normal risk)
1050 mm	220 persons (normal risk)
Doors greater than 1050 mm wide	1050mm = 220 persons - then add 5mm per person on width greater than 1050mm (e.g. door width of 1500mm - 1050mm = 450mm (450 ÷ 5mm = 90) 220 + 90 = max 310 persons

- An additional 75mm should be allowed for each additional 15 persons (or part thereof 15);

2.5. UCL Design Requirements / Criteria for Fire Doors:

All fire-resisting doors shall be:

- (a). Close fitting to the frame with a maximum gap of 5mm, but **3mm** is the accepted working gap;
- (b). Hung by a minimum of 1½ pairs of all metal hinges with a melting point of not less than 800°C (***both nylon and nylon bushed hinges are unacceptable***);
- (c). Fitted with an effective self-closing device that is capable of closing the door tight against the stop, overcoming the resistance of any latch or lock provided;
- (d). **generally** - all fire doors on circulation routes should open in the direction of escape and be rebated to ensure intumescent and smoke seals work correctly:
 - (1). Doors should **Not be double swing** on to stairs or within circulation areas;
 - (2). Exception, doors forming a mid-corridor smoke break where these may be double swing;
- (e). **Vision Panels (VP)** (*Note - these recommendations may be in addition to current regulations / guidance*):
 - (1). **All doors** on main traffic and circulation routes, corridors, lobbies or stair enclosures etc., must be provided with **Vision Panels** for general safety (*regardless of being fire doors or not but VPs should be fire resisting embedded with a fire door*);
 - (2). **All doors** to laboratories, kitchens and areas where hazardous items such as chemicals or glassware pass through the doors regularly are also provided with **Vision Panels** for general safety;
 - (3). **Inner Rooms** - doors to 'Inner Rooms' should be provided with Vision Panels;
 - (4). **Exceptions to the Provision of Vision Panels** - where there is a need for privacy such as WCs / sleeping accommodation / rooms used for Patients / store rooms / dark rooms or light sensitive equipment rooms some specialist laboratory space etc.
 - (5). **Disability Access** - require vision panels (*see approved Document Part M, The Building Regulations below*);

- (f). **Smoke Seals** - fire doors **MUST** be fitted with 'intumescent and cold smoke seals / brushes' where appropriate
- (g). For UCL projects cold smoke seals fitted to all new & upgraded fire doors are the **brush type** where ever possible and **not rubber blade type.** *Rubber blade type, appear from experience, not to be as durable and long lasting in maintenance terms, as the brushes.*

2.6. Self-Closing (SC) Devices

Where self-closing devices are specified, then **standard overhead units are to be used** meeting the latest edition *BS6459: Door Closers*. Door closers and accessories should comply fully with the latest edition *BSEN1154-Building hardware - controlled door closing devices*. Note the strength and features of the self-closer will depend of door location and usage:

- (a). the door is subject to other factors such as air pressure, draughts, heavy traffic use, abusive treatment and use by elderly, infirm or disabled;
- (b). whether the SC unit fitted to the door is to be latched or unlatched in its closing movement;
- (c). whether smoke or other seals are to be fitted to the door set;
- (d). **Fire doors with ½ leaves** - where fire doors are provided with a ½ leaf then these should be also **self-closing** either using an overhead unit where practical or using a Perko type fitting in smaller leaves, as necessary.
 - (1). **Perko fitting** are not normally acceptable on UCL doors with the exception of ½ leaves due to size restrictions;
 - (2). **Perkomatic / Powermatic** concealed door closers are acceptable for certain applications where an overhead SC unit is not practical due to local restrictions or for ½ leaves fitted to fire doors for self-closing;
 - (3). **Exceptions** on some smaller leaves it may be acceptable for practical reasons not to provided SC devices to be agreed with the UCL Fire Safety Manager;
- (e). **Door Frames** - the selection and installation of doorframes is as important as the door itself. Where purpose built frames are installed they should be matched with the recommended door as the fire resistance of one may depend on design features of the other.
 - Any gaps between the rear of the frame and the wall must be infilled with mineral wool, plaster or intumescent paste to meet FR30.

2.7. Intumescent Materials:

Door edges are the part of a door-set most susceptible to penetration by fire. The pressure of a developed fire drives hot gases between the door and frame leading to loss of integrity. Traditionally this weakness was countered using a large doorstop. However, this method relied on a very close fitting door with a gap of less than 3mm between door and frame. The modern solution to this problem relies on the use of intumescent materials applied or set into the edge of doors or doorframes opposite the door edge. Intumescent materials expand at around 100°C to several times their original size and fill the gap between the door and the frame.

An intumescent strip can be fitted either in the frame or in the door edge itself and must follow the centre line of the door edge; on no account must an intumescent strip be fitted to the door stop as the door will be forced open when the strip expands.

Several points should be considered in their use:

- They are applied along the top edge and sides; intumescent material is not required along the bottom edge;
- There are several types of intumescent material and it is important to use the correct type as specified by the manufacturer or the door-set. The differing types are not interchangeable;
- Where a door is required to have intumescent strips and flexible seals this is best achieved by using a single strip combining both functions;
- On fire doors up to 30 minutes fire resistance, it is acceptable to interrupt the intumescent strip for hinges or latches;
- On fire doors exceeding 30 minutes fire resistance, where double intumescent strips are required, one of the strips must be continuous the other may be interrupted;
- The long-standing requirement to provide oversize doorstops on fire doors is no longer applicable to doors with edges fitted with intumescent protection. A 12mm planted stop fixed with nails is acceptable in this case;
- Intumescent materials must not be reduced in size during installation by planing or sawing. In particular, installers should be aware that some are fitted beneath veneers or door trims;

2.8 Air Transfer Grilles:

Air transfer grilles in fire doors will not only allow air to pass through but smoke and fire also. It is, therefore, essential that whatever fire door a transfer grille is fitted, the fire and smoke resisting qualities of the door must not be reduced as a result:

- (a). Where a fire door is fitted purely to resist the passage of fire and not to resist the combination of fire and smoke, a heat activated fire damper is usually acceptable. These are normally of the intumescent honeycomb or fusible strut type of operation.
- (b). Where a fire door is fitted to protect an **internal escape route** and especially if the door has '**Smoke Seals**' fitted, the only air transfer grille permitted is one that resists the passage of smoke as well as fire. This type of damper is electro-magnetically released by the activation of a smoke detector located on the risk side(s) of the door [*e.g. a Gilbert Damper*]. Air transfer grilles in fire doors should not be fitted higher than 1000 mm from the floor threshold.

3.0. Security and Fire Rated (Croydon) Door Sets

UCL has standardised its requirements for those areas requiring security doors (SR2/SR3/SR4) with a fire rating using a range of security doorsets fully certified to the Loss Prevention Certification Board's LPS 1175 standard. See attached guidance sheets:

- **Stafford Bridge Doors** (www.sbddoors.com) Croydon Security Door sets for aesthetics and FD30 to FD60 range of specialist doors;
- **Ascot Doors** (www.ascotdoors.co.uk) manufacture specialist fire & security doors meeting 120 minutes with SR ratings (suitable for tunnels and other fire);
- **ASSA- ABLOY** - provide SR Security and Fire rated Doors, which meet UCL locking and security requirements - security door specifications need to be discussed with UCL Access Systems in the first instance.

4.0. Smoke & Fire Curtains / Shutters

- 4.1. From a practical solution, UCL as Client wishes project design teams to **avoid fire & smoke curtains / fire shutters wherever possible**, experience has shown that they can be unreliable.

***Note** - often architects and designers want to open up spaces for aesthetic reasons and fire curtains are a convenient solution. However, fire curtains leave a legacy of ongoing and costly maintenance. Additionally, they also present a significant management problem, should they fail to operate correctly. This failure to activate would significant impact on the means of escape and the general fire strategy of the premises, leaving a management burden on UCL Estates and the occupying departments that may affect core business functions.*

- 4.2. Where there is no option but to install a fire curtain / fire shutter the in terms of specification then the emphasis **MUST** be on the quality in installation and ongoing maintenance. A further key consideration is that the supplier and their specification is acceptable to the both local Building Control Officer and the UCL Fire Safety Manager. The following provides general guidance:

- To meet LPCB approved smoke curtains (**LPS1182**) requirements and tests for fixed fabric smoke curtains, fixed metal smoke curtains and powered smoke curtains;
- Fire curtains must achieve both Insulation and Integrity ratings of 60 minutes as well as a smoke rating (therefore suitable guiderails will be required) and should be PAS121 compliant;
- Must deploy on activation of a signal from a smoke detector, not a temperature based fusible link;
- There should be warning mechanisms in place to indicate its operation:
 - to occupants when the curtain is descending (visually and audibly) with use of flashing beacons and alarm;
 - Floors may need to be marked / lineated to identify curtain or shutter closing and operating path;
 - furniture and other obstruction will prevent the path of the fire curtain, therefore prevention measures that would block its descent may need installing (i.e. beams that detects any object under the fire curtain);
- The curtain needs to be fail-safe in the closed position;
- There should be a manual override button facilities to open curtain;
- Some manufacturers we are aware of are noted below:
 - www.ascotdoors.co.uk (Shutters & Curtains);
 - www.coopersfire.com

4.3. **Approved Installer and Contractors** - all existing fire curtains and fire shutter equipment is installed, service and maintained through the following contactor:

- **Fisk Fire Protection Ltd** (www.fiskfire.co.uk) - have the contract and responsibility for the maintenance /servicing / installation of equipment through third parties at UCL.

5.0. Ironmongery

5.1. **Ironmongery** - provide strong and fully functioning ironmongery that is approved for use with fire doors.

- **Essential Ironmongery** - items vital to achieve the fire resistance performance of a fire door assembly;
- **Non-Essential Ironmongery** - items which are not required to achieve the fire resistance performance of a fire door assembly but which if fitted may affect the performance;
- **Lock** - a mechanism combining, in one case, a spring bolt and a dead bolt operated respectively by handle and a removable key;
- **Latch** - a device, operable from both sides and generally self engaging, for holding closed a door, gate or the like, consisting of a moveable part operated by a handle, falling by gravity or sliding or moving by means of a spring into a retaining member;
- **'D' Handles** - in many cases the installation of a 'D' handle allows the tension to be released on locks to allow ease of opening - pulling a door open on a thumb turn, key or a small knob is difficult and not acceptable on an escape route where the door needs to open inwards without a suitable handle.

5.2. **Locks** - locking devices fitted with Thumb Turns (*known as Emergency Fastenings(EF)*) should always be used on the inside leaf in direction of escape, unless other types of escape furniture is to be provided; or no locking furniture at all designated '**Free From Fastenings' (FFF)** for Means of Escape purposes.

6.0. Glazing in Fire Doors

- 6.1. If a Vision Panel (VP) or glazing is required in a fire door or partition then the glazing has to be **Fire Resisting Glazing of 30 or 60 minutes integrity** (FRG30/60) meeting BS 476: Part 22.

Note 1: **Clear Fire Glazing** - it is extremely important to be able identify clear glazing as fire glazing (Pyro) this is generally done by ensuring each glass sheet is provided with a visible '**Acid Etching**' giving the trade name in the corner of the pane and marked with BS 476: Part 22.

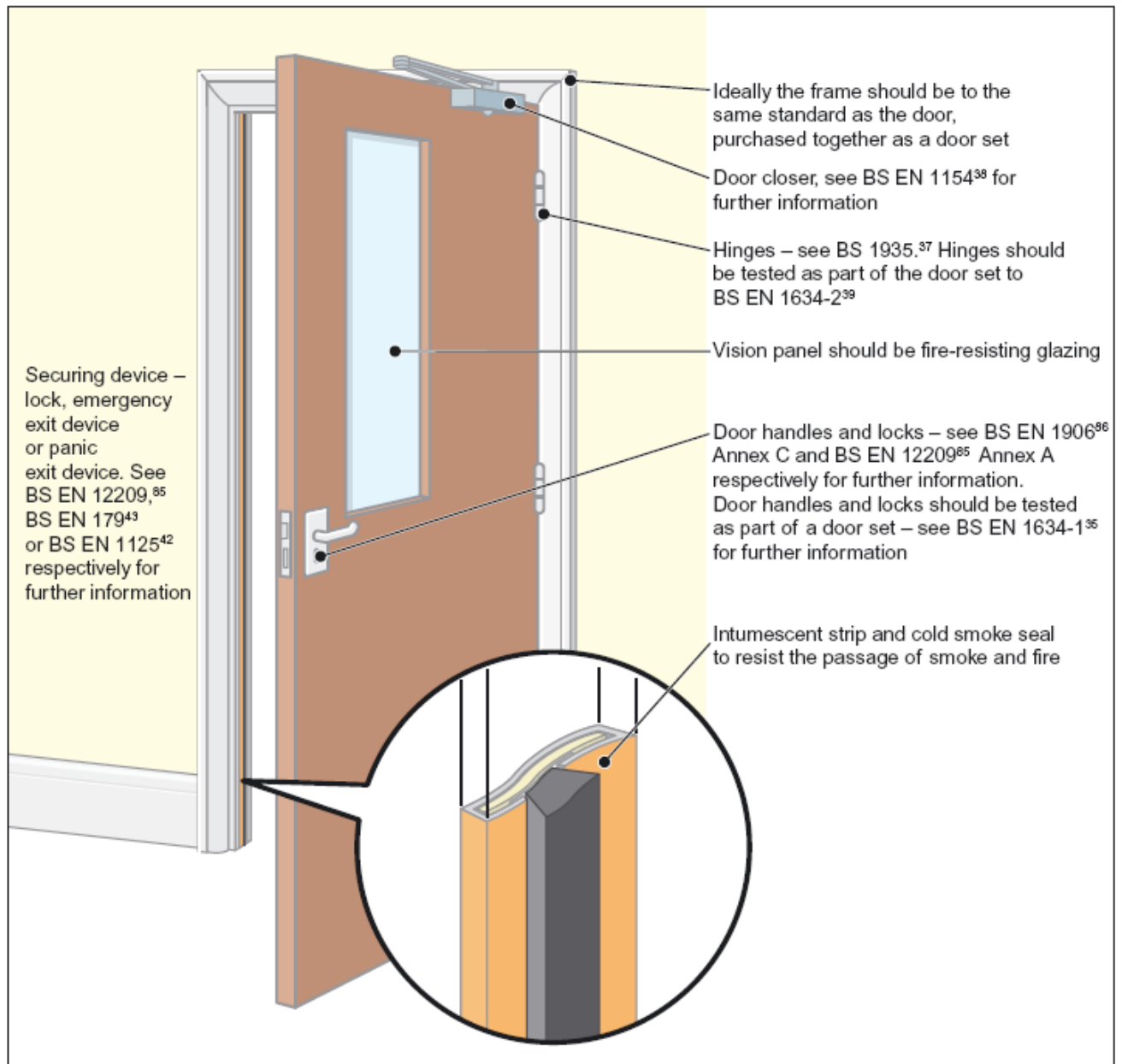
Note 2: If the acid etched trade name or BS 476: Part 22 information is **NOT** visible then the UCL Fire Safety Manager **will not** accept the glazing as **FRG** - **the glazing will be required to be replaced for correct specification and visible etching.**

Note 3: **Safety Glazing** - glazing that is marked with BS 6206: 1981 / BS 6262 Series (or latest issue) is **not fire resisting glazing**. It is often mistaken for FRG30 and the UCL Fire Safety Manager will require this glazing to be replaced for FRG where necessary.

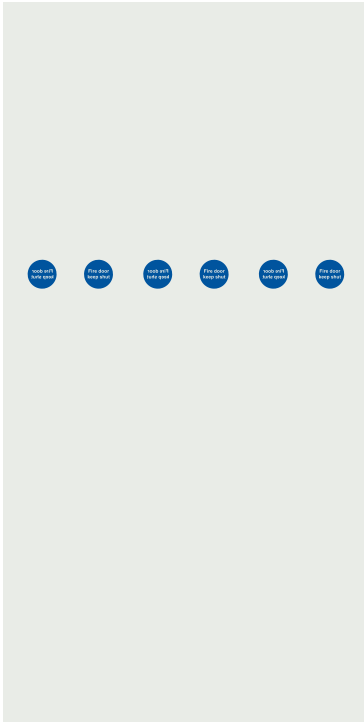
- 6.2. Glazing to FRG30 in design, imbedded in intumescent paste rebates etc. as per manufactures specification.
- 6.3. Fanlights above fire doors are to be sealed so they cannot be opened and the construction to meet either FRG30 or FR30, as required.

7.0. General View of a Fire Door and Associated Furniture

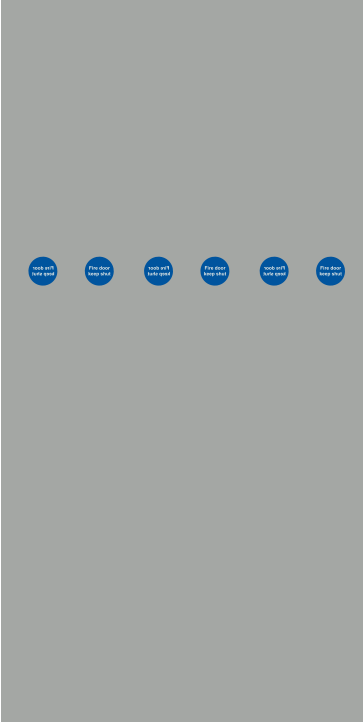
Figure 61: A fire resisting and smoke stopping door



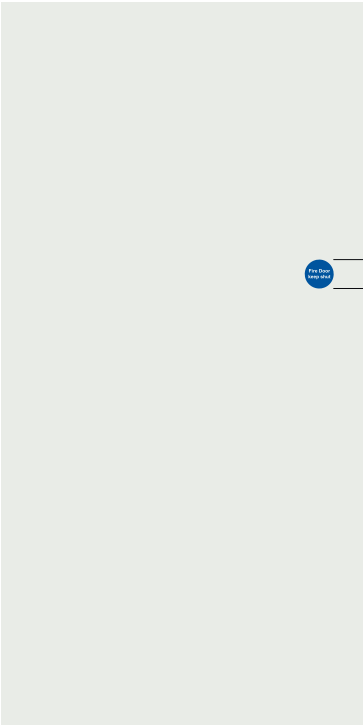
Selection of fire door sign manifestation



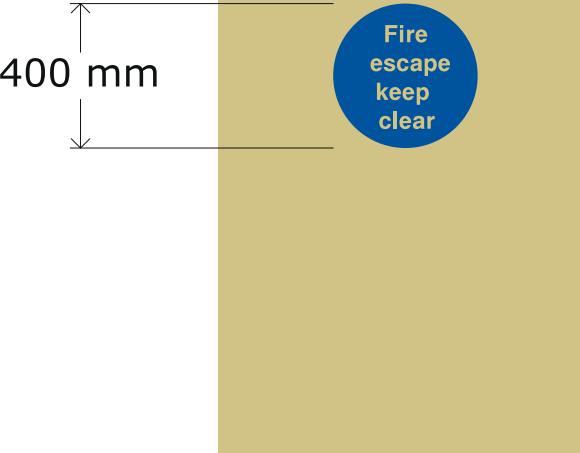
One side of the door with text cut out
text alternately



Back to back with white print



Back to back with white print



One side of wooden door

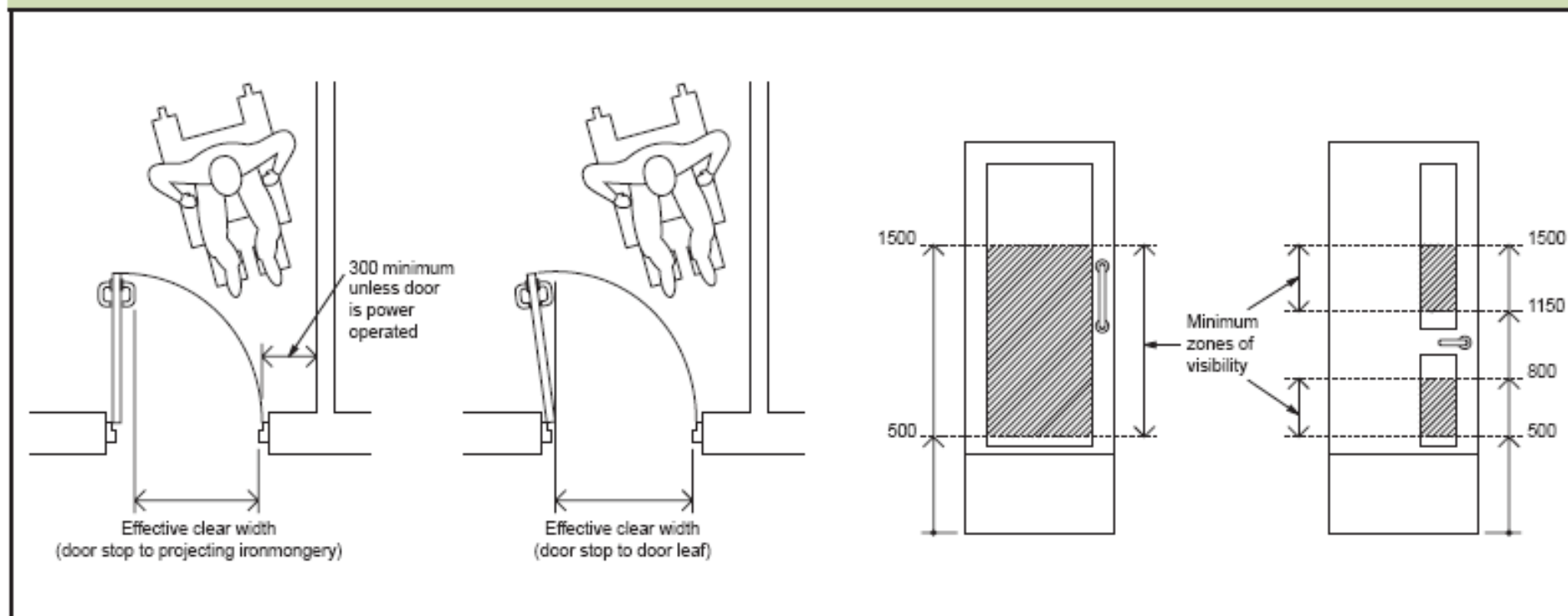


One side of glass door

8.0. Approved Document M - The Building Regulations

- 8.1. General guidance on Vision Panel dimensions, however if Vision Panels form part of a fire resisting door set then the area of the glass may be determined by the fire resistance properties and the manufactures' s specifications etc.
- 8.2. All door glazing on traffic routes and public areas should be **Safety Glazing Standard**, in addition to any fire resistance required.

Diagram 9 Effective clear width and visibility requirements of doors





STAFFORD BRIDGE DOORS LTD
Timber Security Doorsets

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W www.sbdoors.com

QUICK REFERENCE GUIDE

	Number of Leaves		Door Finish		Lock Fitting		Vision Panels	Safety							Security		
Door Range	Single	Double	Timber	Steel Faced	Concealed	Surface		Fire Rating			Blast	Ballistics	Panic	Emergency	ACPO	LPCB	CLASS
								FD30	FD60	FD90		BS EN 1522	BS EN 1125	BS EN 179	Secured by Design	LPS 1175	
Bedford	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓			
Hendon	✓		✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	Rating 2	Class 1
Sandhurst	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	FB1	✓	✓	✓	Rating 3	Class 2
Croydon *	✓	✓	✓	✓		✓	✓	✓	✓		✓	FB1	✓	✓	✓	Rating 3	Class 2
Wilton	✓	✓	✓	✓		✓	✓	✓	✓		✓	FSG FB4-FB7	✓	✓	✓	Rating 4	Class 3
Halton	✓	✓		✓		✓	✓	✓	✓	✓	✓	FSG FB4-FB7	✓	✓	✓	Rating 4	Class 3
Whitehall	✓	✓	✓	✓		✓	✓	✓	✓		✓	FSG FB4-FB7		✓	✓	Rating 5º	Class 4
Cranwell	✓	✓		✓		✓	✓	†	†	†	✓	FSG FB4-FB7		✓	✓	Rating 5º	Class 4

- FD30, FD60 & FD90 - 30-, 60- & 90-minute fire resistant options on single, double, inward & outward opening doors

- BS EN 1125 - Latest European Panic Exit standard

- BS EN 179 - Latest European Emergency Exit standard

- BS EN 1522 - FB1 to FB7; hand gun and rifle round (in order of magnitude). FSG; solid slug shot gun ammunition

- LPCB - Loss Prevention Certification Board

- LPS 1175 - Loss Prevention Standard for Forced Entry

N.B. Our doorsets are regularly tested and assessed - refer to current certificates 516a for full list of product conformity

- ACPO - Association of Chief Police Officers

- Blast - Ensures blast protection to the requirements of HM Government explosion test standard for protected spaces

* Approved manufacturer of HM Government 'Croydon' Security Doorset

† Currently under test

ø Aimed at LPS 1175 but as yet untested



Certificate No.
TT-COC-1818



Assessed to ISO 9001:2000
Certificate No. 516-2



Police Preferred
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WHO SECURE THE COUNTRY]**

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Ascot offer the complete service from design, manufacture and installation to on-going service and repair.

Unrivalled aesthetics and performance have become the hallmark of Ascot Doors in all applications from personnel access, fire and high security, to energy efficiency and sound reduction, internally and externally.

Based in Bolton, UK, Ascot manufactures purpose-made doors in it's own factories using the latest computer controlled production equipment.

Together with modern welding techniques and powder coating technology the highest quality standards are applied, not only in products, but in peoples daily work processes.

Installation teams undergo rigorous training to ensure that your doors are installed to the highest standards and in all cases, in the most effective and safest manner possible.

Recognised internationally for high levels of quality and safety, Ascot make doors for UK, Irish and overseas customers.



stadia
public buildings
retail parks & utilities
factories & warehouses
hospitals & surgeries
banks & offices
leisure & sports halls
schools & colleges
water treatment works



Certificate No. 131a

ISO 9001
ISO 18001

Doors, materials and construction	1 - 2
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Access	5
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Threshold, seals and finishes	8
Service and repair	9

High Security Doors and Shutters

Steel Hinged Doors

LPS1175 Security Rating 1, 2, 3, 4 & 5

Secured by Design

EN1627 TO EN1630 RC3



Roller Shutters

LPS1175 Security Rating 1,2, 3 & 4

Secured by Design



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DOORS

A DORMA BUSINESS

made to measure

Centurion Hinged Doors & Shutters

Welcome to Ascot Doors Limited, manufacturer and installer of individually made-to-measure high performance steel hinged and roller shutter doors.

LPS1175

Made to measure

Ascot offer the complete service from design, manufacture and installation to on-going service and repair.

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coating technology the highest quality standards are applied, not only in products, but in peoples daily work processes.

Installation teams undergo rigorous training to ensure that your doors are made and fitted in accordance with LPS1175 where appropriate, and in all cases, in the most effective and safest manner possible.

Recognised internationally for high levels of quality and safety, Ascot make doors for UK, Irish and overseas customers.



armouries & gun clubs
factories & warehouses
education establishments
banks & building societies
pharmaceutical & research
local authorities & hospitals
public buildings & museums
telecommunications & utilities
defence buildings & police stations



Certificate No. 131/b
Certificate No. 131/d



Certificate no. 8833
ISO 9001
ISO 18001



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