



**THIS DOCUMENT SUMMARISES THE ASSESSED FIRE PERFORMANCE OF  
UK FD20 AND FD30 SINGLE AND DOUBLE LEAF SLIDING DOORS INSTALLED IN  
TIMBER FRAMES WITHIN FIRE RESISTING PARTITION WALLS**

The assemblies can include 44mm thick timber door leaves if they have been otherwise tested, assessed or Third Party Certified. The depth of the fire resisting partition, door assembly specification and installation of leaves must be fully in accordance with International Fire Consultants Ltd Field of Application Report **PAR/10057/01 Revision B**.

An assessment of the above assemblies has been undertaken, based upon primary fire test data CFR0912101 and WF 385794 referred within Field of Application Report **PAR/10057/01 Revision B**.

**Single and Double leaf horizontally sliding door assemblies are available with maximum dimensions as follows;**

**FD20 and FD30 Unlatched Single Leaf Configuration**

Maximum leaf height ( x associated width)	2703mm x 884mm
Maximum leaf width ( x associated height)	1118mm x 2236mm

**FD20 and FD30 Unlatched Double Leaf Configuration**

Maximum leaf height ( x associated width)	2373mm x 877mm
Maximum leaf width ( x associated height)	1032mm x 2064mm

It is the opinion of International Fire Consultants Ltd that, providing the requirements and limitations of Field of Application report **PAR/10057/01 Revision B** are complied with, the above listed assemblies would satisfy the integrity criteria for a period of 20 minutes and 30 minutes fire resistance performance, as required, if tested to the BS 476: Part 22: 1987 standard.

This summary does not constitute an assessment. It is the responsibility of anyone using this document to confirm that all aspects of the doorsets comply with the requirements of the full Report which should be read in conjunction with this document. The report is due for review and re-validation in May 2023.

**Will Lightfoot** BEng (Hons) AIFireE  
Fire Safety Engineer  
International Fire Consultants Ltd (IFC)

**David Cooper** BEng (Hons) AIMMM AIFireE  
Fire Safety Engineering Manager  
International Fire Consultants Ltd (IFC)

**International Fire Consultants Ltd**

## **Door Closers**

FD30 door assemblies must be fitted with a self-closing device, whereas FD20 door assemblies may not require self closing devices. (Guidance must be sought from the approving authorities to ensure that the self-closing device can be omitted from an FD20 doorset). This assessment is only applicable for door leaves that are fully closed. Approved Document B, Volumes 1 and 2, detail particular circumstances whereby self-closing devices are not required to be installed on door assemblies. These approved documents, as well as the approving authorities shall be consulted to determine where self-closing devices shall and shall not be installed.

The door leaves have been tested incorporating the BIAS anti-slam closer mechanism. These may be fixed at the head of single and double leaf horizontally sliding door assemblies as approved herein.

Where required, a bespoke self-closing device has been developed by Eclisse and tested within the sliding door construction. It is essential that the closers are of the correct power rating for the width and weight of the door assemblies (minimum power size 3). The self-closing device must be fitted according to the manufacturer's instructions, and be adjusted so that it is capable of fully closing the door leaf from any position of opening.

## Non-Essential Hardware Items

Push plates, kick plates, etc:	Maximum 2mm thick plastic, pvc or metal plates may be recessed into the face of door leaves by maximum 1mm thick by 200mm wide. Plates must be installed such that there is a minimum of 100mm from the leaf edges.
Surface mounted pull handles:	These may be fixed to the door assemblies, provided that the fixing points are no greater than 500mm apart. Pull handles that are fixed through the leaf should use clearance holes as close fitting as possible to the bolt.
Recessed pull handles:	Recessed pull handles of maximum size 250 x 250mm may be recessed into the leaf by maximum 12mm as long as they are bedded on minimum 1mm thick non-pressure forming intumescent material and that handles are minimum 100mm from leaf edges. They must not be fitted with 100mm of a handle on the reverse face of the leaf. This assumes that the selected leaf construction is 'solid'; i.e. without voids.

The Building Regulations 2010

**Fire safety**

**APPROVED DOCUMENT**

**B**

**VOLUME 1 – DWELLINGHOUSES**

- B1** Means of warning and escape
- B2** Internal fire spread (linings)
- B3** Internal fire spread (structure)
- B4** External fire spread
- B5** Access and facilities for the fire service

Coming into effect April 2007



For use in England\*



## MAIN CHANGES

### VOLUME 1

#### Main changes made by the 2013 amendments

The general guidance on materials and workmanship and the Construction Products Directive has been edited and a reference to Approved Document 7 put in its place. The standard for smoke alarms has been updated to BS EN 14604 *Smoke alarm devices*.

#### Main changes made by the 2010 amendments

The amendment in March 2010 updated a number of references to European Standards. In particular, the guidance in Appendix B (Fire doors) was updated.

The amendment in October 2010 reflected the changes made as a result of the Building Regulations 2010, Building Approved Inspector etc. Regulations 2010. The changes mainly reflected regulation number changes as a result of re-ordering.

#### Main changes in the 2006 edition

This edition of Approved Document B, Fire safety, replaces the 2000 edition. The main changes are:

##### General

- a. **Approved Document B:** The Approved Document has been split into two volumes. Volume 1 deals with dwellinghouses, Volume 2 deals with buildings other than dwellinghouses.

Wherever possible the guidance in Volume 1 has been tailored and simplified to be more directly relevant to dwellinghouses.

##### Introduction

- b. **Certification Schemes:** Suitable schemes may be accepted by Building Control Bodies as evidence of compliance.
- c. **Residential Sprinklers:** The use of sprinkler systems in accordance with BS 9251:2005 is recognised.
- d. **Adult Placements:** Reference is made to the code of practice for fire safety in adult placements.

##### B1

- e. **Fire Alarms:** The guidance on smoke alarms has been amended such that alarms should be installed in accordance with BS 5839-6:2004.

Simple guidance has been retained, in the form of a commentary on this standard, so that most users of the Approved Document will not necessarily need to obtain a copy of the standard.

All smoke alarms should have a standby power supply.

Where a dwellinghouse is extended smoke alarms should be provided in the circulation spaces.

- f. **Means of escape:** The guidance on means of escape has been restructured to make it easier to use.
- Additional guidance has been provided in relation to work on existing houses.
  - Locks and child resistant safety stays may be provided on escape windows.
  - The alternative approach for loft conversions to two storey houses has been removed.
  - New guidance has been provided on the provision of galleries and inner inner rooms.
  - An option of providing sprinkler protection instead of alternative escape routes has been included for dwellinghouses with a floor more than 7.5m above ground level.
  - Guidance on the application of B1 to replacement windows has been included.
  - Guidance on the use of air circulation systems in houses with protected stairways is given.

##### B3

- g. **Integral Garages:** The provision of a sloping floor has been included as an alternative to the 100mm step between dwellinghouses and integral garages.
- h. **Compartmentation:** Guidance on the junction between compartment walls and roofs has been clarified and expanded.
- i. **Cavity Barriers:** Window and door frames are only suitable for use as cavity barriers if they are constructed of steel or timber of an appropriate thickness.

##### B4

- j. **Roof Coverings:** The guidance on roof coverings incorporates the new European system of classification set out in BS EN 13501-5:2005.

##### B5

- k. **Vehicle Access:** There should be access for a pump appliance to within 45m of all points within a dwellinghouse.

#### Appendix B

- l. **Self-Closing Devices:** Other than doors between a dwellinghouse and an integral garage, fire doors need not be provided with self closing devices.