

	CERTIFICATED FIRE DOOR DO NOT REMOVE THIS LABEL	certification IFC FRTD497	IFC Certification Ltd Tel: +44 (0)1344 275500 www.ifccertification.com FD 30 BS 476:PART 22 (PLEASE TICK)	FD TYPE:	FORZA FIREDOOR NO:	IFC Certification Ltd Tel: +44 (0)1344 275500 www.ifccertification.com FD 60 BS 476:PART 22 (PLEASE TICK)	FD TYPE:	FORZA FIREDOOR NO:
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FIRE RESISTANT TIMBER FIRE DOORS

**TO BS 476: PART 22 : 1987
PRODUCT CERTIFICATE NO. FRTD497**

This product certificate certifies that FORZA DOORS LTD Manufacture the following fire doors and door sets

FORZA FD30 FD60 FD90 FD120

and have satisfied the requirements of The IFC CERTIFICATION LTD scheme that includes the testing of products to BS476: Part 22, the inspection of Factory Production Control and continuing surveillance audits and testing of samples of products taken from production.

The product specification and field of application to achieve 30, 60, 90 and 120 minutes integrity are detailed in:



SCHEDULE REF: PAR/10321/01	FD30
SCHEDULE REF: PAR/10896/01	FD60
SCHEDULE REF: PAR/10918/01	FD90
SCHEDULE REF: PAR/10922/01	FD120

Forza Doors Ltd
 Forza House
 24A/24C Star Road Trading Estate
 Partridge Green, Horsham
 West Sussex RH13 8RA



CONTRACTORS INSTALLATION STATEMENT

The FORZA FIREDOOR No. _____

has been installed in accordance with the Forza Installation Guide (see reverse) by the trained installation team of:

Company: _____

To the Project of works Ref No: _____

At: _____

Signed: _____

Date: _____

(On behalf of the Contractor)

FORZA DOOR AND FRAME INSTALLATION GUIDE

FRAME INSTALLATION

The frames must be fixed back to the supporting construction plumb and square without twist, racking or distortion of any member with steel fixings at centres not exceeding 600mm on the vertical edges (minimum 200mm from the top and bottom), and a minimum of one fitted centrally across the width of the frame head of double doors. Fixings shall be of sufficient length to penetrate the wall by at least 40mm. Packers shall be used at all fixing positions, although if combustible packers are employed, these must be protected by a layer of firestopping aligned near to each face of the door frame.

Supporting Construction

The supporting construction may be timber or steel stud plasterboard partition, blockwork, steel stud demountable partition, brickwork or concrete wall, but shall be of a type that has been tested or assessed to provide in excess of 30 minutes fire resistance, at the required size, when incorporating doorset openings (FD30). If fitted into timber or steel stud partitions, the method of forming the doorset aperture must be as tested by the partition and/or doorset manufacturer. For FD60, FD90 and FD120 the supporting construction shall be of a type that has been tested or assessed to provide the related fire resistance. No part of the rear of the frame section shall be exposed once installed, (except for integral architraves) and leaves must not protrude beyond the exposed face of the doorframe.

There shall be no feature rebates or shadow gaps at the junction of the frame and wall with aluminium frames (FD30) unless project assessed.

In FD30/FD60 timber frames shadow gap details may be included in the supporting construction or in a frame extension at the interface of the frame and wall as detailed in Summary drawings ref. FZD0098/0099/0101/0102.

Frame to Wall clearance gaps

The gap width between the frame and the wall shall not be greater than 5mm. The fire stopping between the supporting construction and timber frames should be either 2no. 10 x 4mm intumescent strips (FD30)/2no. 20 x 4mm intumescent strips (FD60) to the back of the timber frame or mineral / glass wool packed to a depth of at least 10mm or intumescent paste/mastic.

DOOR INSTALLATION

Door/overpanel to Frame clearance gaps

The gap between the door and the frame or between meeting stiles (and between double doors and overpanel where applicable) should be 1.5-4mm. Gaps under the door(s) should not exceed 6mm for fire performance, although, if smoke control is also required, these gaps should only be 3mm, or smoke seals should be included in accordance with BS8214.

The doorset design should be such that single acting leaves are fully flush within the frame when closed and double acting doors should be centred on the frame depth. The face of leaves in double doorsets should be flush with each other at meeting stiles when closed.

Overpanels shall be secured into the frame using steel screws fixed through the rear of the frame members, passing at least 40mm into the centre of the overpanel thickness. (Screws must not be fixed through the overpanel into the stops, or vice versa). Screws must be no more than 100mm from each corner of the overpanel, and at maximum 400mm centres, with a minimum of 2 no. screws per overpanel edge. This specification applies to overpanels used with or without a transom. The gap between overpanel and frame should not exceed 3mm.

METHOD OF HEAD/JAMB JOINTING FOR FD30/FD60 FRAME APPLICATIONS

Butt Joint - Glued with non-thermally softening adhesive & head twice screwed to each jamb.

Mortice & tenon - Head twice screwed to each jamb.

Half lapped - Head twice screwed to each jamb.

Mitred - Glued with non-thermally softening adhesive & head twice screwed to each jamb.

For further guidance on frame & door installation for FD30/FD60/FD90/FD120 please visit forza-doors.com/performance & guidance/frame installation.

HARDWARE INSTALLATION - Hinges

Hinge types: Fixed Pin, washered butt, ball bearing butt, lift-off type or journal supported may be used. Rising butt, non-cranked butt and single or double spring hinge are not suitable. Refer to Forza Technical Dept.

Number of hinges: 3 no. (1½ pr) per leaf to 2400mm high 4 no. (2 pairs) per leaf above 2400mm high.

Position: The top hinge must be positioned 120-180mm down from the head of the leaf to the top of the hinge and the bottom hinge

positioned 200-250mm up from the foot of the leaf to the bottom of the hinge. The middle hinge(s) to be either equi-spaced between the top and bottom hinge or 200/250mm below the top hinge (1½ pr) and 200/250 above the bottom hinge (2pr).

Fixings: As recommended by the hinge manufacturer but no smaller than no.8 (3.8mm dia.) by 32mm long full thread.

Hinge blade size: 2.5-3.5mm thick x 89-110mm high x 30-36mm width.

Hinge material: Brass, Phosphor Bronze, Steel or Stainless Steel.(NOT aluminium, nylon or 'mazaç'.

Additional protection: FD30 not required. FD60 Hinge blades to be bedded on 1mm thick low pressure forming intumescent material and a minimum 10mm width of intumescent seal shall be continuous alongside the hinge blades.

Mortice Latches /Locks

Latch/lock type: Mortice, tubular mortice, sashlock and deadlock.

Position: Centred at 1000mm (+/-200mm) above bottom of door leaf.

Max Dimension:

Forend plate - 235mm long x 20mm wide or 200mm long x 25mm wide.

Latch body - 20mm thick x 165mm high x 100mm wide.

Strikeplate - 235mm long x20mm wide or 200mm long x 25mm wide.

Materials: Latch structure and contents to be non flammable.

Additional Protection: Any forend/keeps longer than 130mm(or at meeting styles) to be bedded on 1mm thick low pressure forming intumescent. Gaps greater than 2mm between latch and mortice to be made good with intumescent mastic or sheet.

Door Closers

Overhead surface mounted self-closing device conforming to requirements of BS EN 1154:1997 and to have a minimum power size of 3.The closing force to be sufficient to overcome the resistance of the latch and smoke seals where fitted.

For fitting instructions to FD30/FD60 doors of concealed closers, bolts floor springs, letter plates, push plates, kick plates pull handles, air transfer grills .security viewers, cableways for electro-magnetic mechanisms, door selectors, panic hardware and automatic threshold seals and for guidance on hardware installation to FD90 & FD120 doors please visit forza-doors.com/performance & guidance/hardware installation.