



## **INSTALLATION INSTRUCTIONS FOR FD30 DOORS**

*Before you begin please check the following:*

- *The sizes are correct and everything you have ordered is included*
- *There is no visible damage to the protective packaging*

*Please inform our sales team immediately if there are any discrepancies.*

### **GENERAL**

If any of the following installation guidelines are unclear please contact us immediately for clarification.

This door has been tested to BS 476: PART 22: 1987 and is certified BM TRADA as achieving Fire Resistance up to 30 minutes when used in accordance with the following conditions.

To identify this, the leaf carries plastic plugs which describe the period of fire resistance issued under the BM TRADA Q Mark certification scheme. As such, these plugs should never be removed from the product.

### **STORAGE & HANDLING**

- Doors must be handled by at least 2 people
- Doors must be stored on a clean, dry and level surface to avoid any warping or bowing
- Use at least 3 load bearers to allow equal weight distribution
- Do not store doors in direct sunlight as this may affect the shade of the veneer
- Doors must not be store or fitted in a building with wet trades. All plastering must be finished and given appropriate time to dry before doors are fitted
- Planed edges on prefinished doors must be re varnished to avoid moisture absorption
- All unfinished products must be finished promptly to avoid moisture absorption
- Door and frame can be supplied in kit form for assembly on site

## **ASSEMBLY ON SITE**

If door and frame is supplied in Kit form, and carries a Yellow Outer/Green Inner plug, all components supplied by Birmingham Joinery must be installed and assembled in line with these installation guidelines and the relevant global assessment. Only ironmongery that is approved in the global assessment may be used. Contact Birmingham Joinery for guidance and further details. Only the intumescent seals provided by Birmingham Joinery must be used. Any replacing or removal may invalidate certification.

If the door and frame is supplied as a Factory Hung door set and carries a Yellow Outer/Silver inner plug it must be installed in line with these installation guidelines and the relevant global assessment. Only the ironmongery supplied with the set may be used. Replacing or substituting ironmongery may invalidate the fire rating and certification. Any ironmongery supplied loose must be fitted in line with manufacturers instructions.

## **DOOR GAPS**

### **Leaf**

When fitted, the gap between door and frame at the top may be minimum of 2mm and a maximum of 4mm.

Any planning or trimming of edges of doors may void the certification and invalidate the fire rating. Please contact Birmingham Joinery for guidance if planning is required.

### **Threshold**

A maximum gap of 10mm between bottom of leaf and top of floor covering. 10mm is the maximum tolerance for fire resistance only. Where smoke control is required a maximum of 3mm or a suitable fire performance tested threshold drop down seal should be fitted. The following types of may be recessed in to the bottom edge of the door leaves without compromising the performance: Norseal Ltd. NOR810. Lorient Polyproducts Ltd. IS8010s. Raven Products Ltd. RP8. Athmer Schall-Ex Duo L-15. Halspan SLS-DRP-100 range.

### **Structural Opening**

Gaps up to 10mm must be sealed on both sides with a 10mm depth of acrylic intumescent mastic, fire tested for this application to BS 476: Part 22: 1987 or BS EN 1634-1. Joint must be fitted with 15mm thick overlapping at least 15mm each side.

Gaps between 10mm and 20mm must be tightly packed with mineral fibre, capped on both sides with a 10mm depth of acrylic intumescent mastic, fire tested for this application to BS 476: Part 22: 1987 or BS EN 1634-1. Architraves are optional.

Gaps up to 20mm filled with proprietary fire stopping product (e.g. Blue60 or similar). Products must be tested for this application to BS476: Part 22: 1987 or BS EN 1634-1. Joint must be fitted with 15mm thick architraves overlapping at least 15mm each side.

## **FRAME**

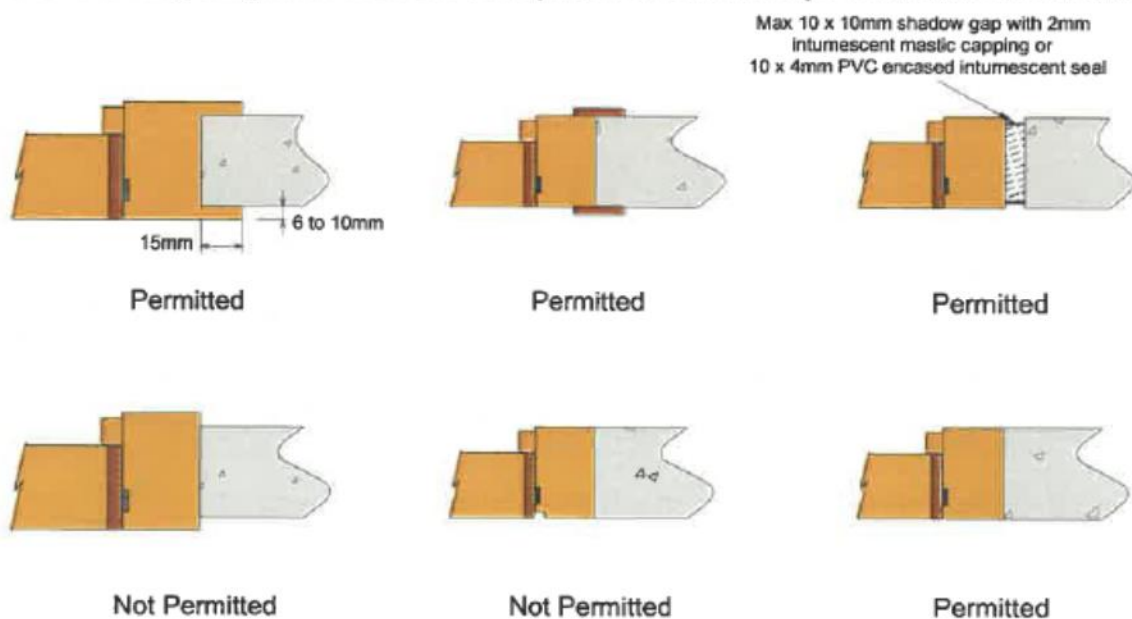
Door frame material may be softwood or hardwood with a minimum density of 500kg/m<sup>3</sup>.

Door frame section must be a minimum of 70 x 30mm. Single acting door frames must incorporate a 12mm deep rebate or planted stop. Frames may be morticed and tenoned, mitred, half lapped or butted with no gaps.

The following diagram shows acceptable and unacceptable frame installations.

### **Door frame installation**

The following diagrams indicate acceptable and unacceptable frame installations.



## **ARCHITRAVE**

Where architrave is required it must have a minimum density of >450kg/m<sup>3</sup>. PVC U architrave is not permitted.

## **FIXING**

The door and frame is only to be installed into brick, block masonry or timber stud walls with a minimum 70mm depth and providing 30minute fire resistance.

Any voids between the lining must be filled as above.

Jambs and heads are to be fixed to the opening with steel screws at 600mm maximum centers with first fixing 100mm from each end, fixings must penetrate the wall by a minimum of 50mm. There

must be a minimum of 3 fixings of each jamb. It is not necessary to fix the frame head, although packers must be inserted.

### **INTUMESCENT**

Where a Green or Silver inner plug is present the seals provided by Birmingham Joinery must be used. Any replacing or removal may invalidate certification.

Where a red inner plug is present intumescent strips must be fitted to the door or frame perimeter; the number of strips used and type is dependent on the door size and configuration. Please see relevant global assessment for confirmation fire door assessment that is applicable. Approved intumescent manufacturers and types can be found by contacting Birmingham Joinery.

### **IRONMONGERY**

If the door or frame carries and Yellow Outer plug with a Green or Red inner plug then the Ironmongery used must comply with the relevant global assessment reports.

The global assessment code that relates to your order will be noted on order acknowledgment and delivery note. They are available on request.

If a factory hung doorset has been supplied and carries a Yellow Outer, Silver Inner plug then only the ironmongery supplied with the set may be used. Removal or substitution may invalidate the fire rating and certification.

Please follow manufacturer's instructions for correct installation of ironmongery.

### **PLUGGING**

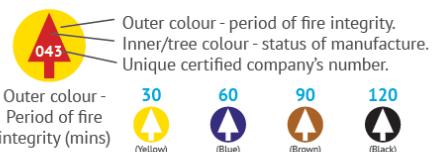
A plug detailing the below will be visible inside the rebate on the jamb of each door frame supplied and on the top edge of each door.

FD30 Doors will be plugged in accordance with the chart below.



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### Fire Door Certification Scheme



Inner/Tree colour	
(Red) Approved door leaf and/or frame* (FD30 & FD60 only). Intumescent strips not supplied.	(Orange) Approved factory fitted glazing.
(Green) Approved door leaf and/or frame* (FD30 & FD60 only). Intumescent strips prepared for & supplied.	(Silver) Complete certified factory hung doorset.
	(Gold) Certified installation of a complete factory hung doorset.

\*Where the frame and leaf are produced by separate Q-Mark companies, both the frame and leaf must have their own red/green plug.

For details of the scheme and list of certified companies visit [www.bmtrada.com](http://www.bmtrada.com) or call +44 (0) 1494 569960



### MODIFICATIONS

Any modification of this door, including Glazed apertures, machining or fitting of air transfer grilles, trimming of doors, removal of hinges or intumescent or removal of factory fitted ironmongery will VOID the certification and invalidate the fire rating.