



## Installation & Maintenance Guidelines

Timber door sets are delivered to site ready for fitting. However in order for installation to be completed satisfactory, it is important that certain handling, storage, finishing and installation requirements are met. For best performance and to ensure that your guarantee is not invalidated, the following guidelines must be fully observed.

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Think Doors.....  
Think Quality.....  
**Think L & S**



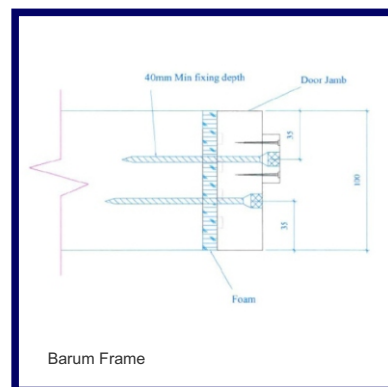
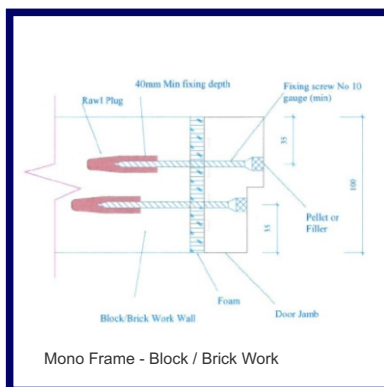
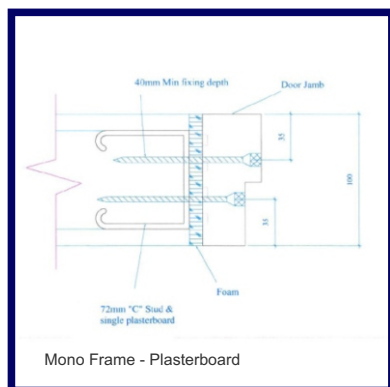
## Storage & Handling

Storage and handling of doors must be in accordance with guidance offered by BS 8000 part 5: 1990

- A timber door must not be exposed to extreme temperature or humidity, or natural light prior to un-packaging.
- Packaging and protection wrapping should not be removed until products need to be installed. Doors must be stored flat in a dry, well ventilated environment.
- Stack door on at least three level bearers equally spaced along the length of the door. Never stack against the wall.
- Under no circumstance should they be stored in damp or freshly plastered rooms.
- Doors not fitted should be re-palletised and wrapped to prevent light penetrations.
- Veneered doors should not be exposed to strong light, daylight or an uneven mix of light during storage as this can cause fading and uneven colour fading against each other.

## Installation Door Frames

The door frame / casing should be fixed 100mm from the top, 100mm from the bottom and then equally spaced in between these two points at a maximum of 600mm centre's. All fixing's should be tandem fixed as per technical drawing 1.1.



### Drawings 1.1

This will not only maintain the structural integrity in a fire situation but will assist in the prevention of twist, wane and cupping of the frame due to changes in humidity and natural timber moisture movement.

The gaps between the casing / frame should be filled with an intumescent rated expanding foam filler to assist the mechanical fix and reduce bounce in the casing, and maintain fire rating integrity. Where the gap is minimal i.e. less than 5mm a fire rated mastic should be used to fill the joint to maintain fire integrity. We recommend using Everbuild B2 Firefoam rated at 2 hrs. Warrington Certifire test report no: 160902

## Installation Door Frames

Fit doors in accordance with the guidelines in BS 8000 part 5:1990

Ensure the property where the doors are to be hung is completely dry, particularly freshly plastered rooms. Install fire doors in accordance with the installation instructions. Do not cut apertures on site as this will invalidate the fire rating. (See page 3 for further details)

Each product is labelled with a unique reference to locate the right doorway. This is based on the contract drawing and schedules. Each door set MUST be installed in the correct opening.

## Fire Doors

Every fire door design manufactured under the BWF-CERTIFIRE fire door & doorset scheme has been independently tested and certificated as proof that, all things being equal, it will be reliable in the event of a fire, but it is not only the fire door itself that has to be certificated. Anyone involved in the handling of the certificated doors, whether manufacturing the frames, inserting glass vision panels or installation, should be able to demonstrate that they are capable of doing the job to the required standard.

## The Importance of Correct Installation

Proper installation is integral to fire door performance. It is one of the final and arguable most crucial stages of the work carried out on fire doorsets. As manufacturers and suppliers go through the extensive and committed process of having their doors and components rigorously tested in accordance to the latest standard, the installation procedures become ever more important to ensure that the fire door remains fully reliable.

The correct installation of the fire door assemblies and doorsets is fundamental to their overall performance because it will ensure the fire door will remain reliable to its fire integrity rating in the event of a fire.

A fire doorset is correctly installed in the furnace when it is tested, so therefore it must be installed correctly on site so that the door will perform in the same way when needed.

Incorrect installation defeats the purpose of certificated fire doors, certificated components and certificated hardware because in a fire, the smoke and gases it produces can easily travel through gaps left by incorrect installation. A certificated half hour fire door which is incorrectly installed may only provide 5 - 10 minutes of fire resistance.

## Follow the Instructions

In order to avoid risking people's lives, BWF-CERTIFIRE (who account for 90% of all fire doors manufactured in the UK) provide specific and comprehensive installation with every door which must be rigorously followed by the installer.

Installation instructions are specifically written for each particular door design in accordance with its relevant fire test. THEREFORE, INSTALLING FIRE DOORS IS NOT A STANDARD TASK, IT IS A SPECIALISED TASK.

The advice in the installation instructions just take a moment to read and even though the installers may have been fitting fire doors for years, the instructions will inform the reader of details specific to that door. More importantly, it will offer peace of mind to the installers and will result in fewer site difficulties.

As fire door designs are constantly changing, correct installation has become ever more vital.

Not following the instructions can prove fatal in the event of a fire and will invalidate the certification because installation is the last stage of the entire certification process.

If you come across a BWF CERTIFIRE certificated door that - for whatever reason - does not have these installation instructions, then you should speak to the Site Manager from where you obtained the door or contact the manufacturer of the fire door, details can be found on the label stuck to the top of the fire door leaf.

Any fire label or plug present must not be removed under any circumstance, as this will invalidate the certification.

## Installation

The opening may be lined with softwood or hardwood which shall be continuous and of a minimum width, 70mm. Each fire door frame jamb to be fixed through to the wall at not less than four points with steel or nylon frame screws and plugged at a maximum 600mm centres as per technical drawing 1.1 and penetrating the wall to at least 40mm. Architrave is optional with no restrictions on material, size or fixing.

Door leaves may be trimmed to fit the frame by the following maximum amounts shown in Table A. The maximum margin from door leaf to door frame must be no less than 2mm and no more than 4mm, with a maximum undercut from the bottom of the door to the Fire rated substrate of 8-10mm. Common Practice is from door to floor covering.

**Table A**

Stiles (each)	3mm
Top	3mm
Bottom	3mm

**Table B**

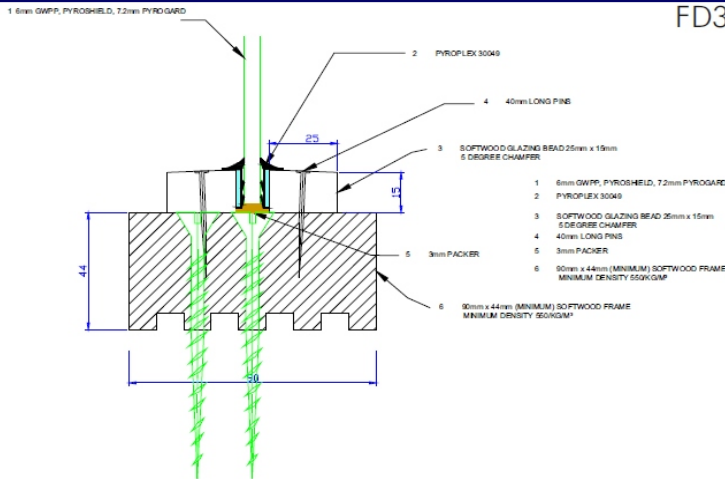
Stiles (each)	2-4mm
Top	2-4mm
Undercut	8-10mm

Note that the maximum door to frame and door to threshold gaps specified shall not be exceeded nor shall the door edge fitted with the BWF-CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

Fitting to be carried out in accordance with BS8214: 1990 table 3

## Screens

### FD30 Screen Details



6mm GWPP / 7.2mm Pyroguard glass in timber frame screens for periods of 30minutes integrity

The glass shall be glazed utilising the following specification:

- Pyroplex 30049
- 6mm GWPP 2455mm x 1175mm or maximum 2.3m<sup>2</sup>
- 7.2mm Pyroguard 2.000mm x 1.200mm or Maximum 2.4m<sup>2</sup>
- Transoms & Mullions are allowed.

The above specification relates to:

- Certificate CF 257 CGI Ltd. Pyroguard
- Certificate CF 373 CF 718 Pilkington Ltd. Pyroshield
- Certificate CF 651 Pyroplex 30049

Fd30

- Glass deduction 6mm

Fitting instruction - Fitting is completely clean and dry. The gasket is fitted to both beads using self adhesive tape attached. The glass is fitted in the screen and the beading is pinned to the frame using 40mm pins.

Fit screens in accordance with the guidelines in BS 8000 part 5 : 1990.

Ensure the property where the screens are to be installed is completely dry, particularly freshly plastered rooms.

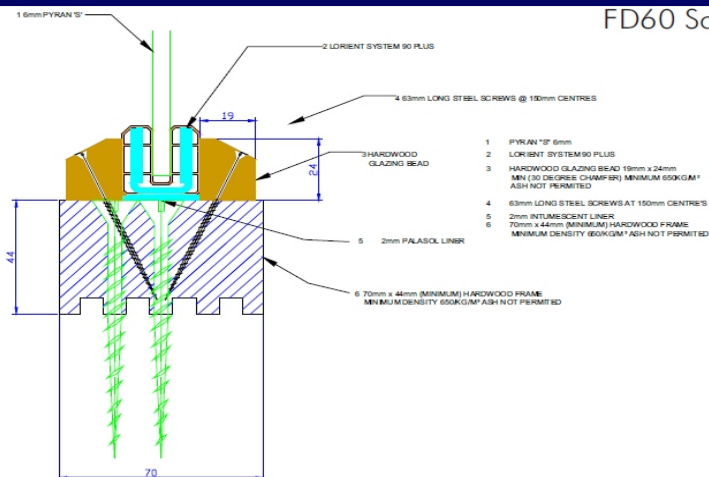
The screen frame should be fixed at 600mm centre's (max) and tandem fixed as per the attached technical drawing. This will not only maintain the structural integrity in a fire situation but will assist in the prevention of twist, wane and cupping of the frame due to changes in humidity and natural timber moisture movement.

The gaps between the casing / frame should be filled with an intumescent rated expanding foam filler to assist the mechanical fix and maintain fire rating integrity.

Where the gap is minimal i.e less than 5mm a fire rated mastic should be used to fill the joint to maintain fire rating integrity.

Glass certification is constantly evolving and being tested to increase performance due to the demands of today's ever changing marketplace. Therefore we always use the most recent certification from the respected suppliers and all drawings for screens within this manual are for indicative purposes ONLY.

### FD60 Screen Details



Pyran 'S' glass in timber frame screens for periods of 60minutes integrity

The glass shall be glazed utilising the following specification:(the screen shall be no greater than)

- 2420mm or 1077mm Aspelt ratio less than 1:1
- 1460mm by 1460mm Aspelt ratio of 1:1
- Maximum pane area 2.15m<sup>2</sup>
- Transoms & Mullions are allowed.

The above specification relates to:

- Certificate CF 291 Schott UK Ltd
- Certificate CF 185 Lorient Poly Products Ltd

FD60

- Glass deduction 19mm

Fitting instruction - The PVC channel with mitred corners is fitted to the glass. The beads are screw fixed using 63mm steel screws.

## **Maintenance**

The decorative finish applied to internal / external joinery must be maintained in service and moisture must not be allowed to penetrate into the timber throughout its lifetime. Annual inspections should be made and touching up carried out as necessary in areas of wear on external doors, to comply with the decorating product manufacturers guidelines.

Regular inspections should be carried out to ensure that doors are operating correctly and not binding on floors or against the lock keep, as this will cause damage to the door. It is particularly important to check that intumescent / smoke strips are undamaged.

## **Quality Assurance**

The quality of all the procedures provided is fundamental to the success and development of the business. It is therefore our policy to research and consistently meet the quality requirements of every market segment in which we operate within.

We are committed to training of all our employees in our quality processes.

Towards our commitment we are in the process of obtaining BS-EN ISO 9001 : 2008 accreditation as the structure for the implementation of this policy and will be regularly assessed by a recognised accredited organisation for compliance with this standard.

## **Guarantee**

### **L & S guarantee all products supplied**

The timber doorsets range is covered by our guarantee on assuming normal wear and tear. Conditions and usage must be by according to our recommendations. The guarantee does not cover wilful neglect or unskilled installation or any defects which are visible before installation of the product but not reported within seven days of delivery. Please enquire for further information in relation to our guarantee