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## CERTIFICATE OF APPROVAL

### No CF 154

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This is to certify that, in accordance with  
TS00 General Requirements for Certification of Fire Protection Products  
The undermentioned products of

# J B KIND LIMITED & IRMADE- INDÚSTRIAS DE REVESTIMENTO DE MADEIRAS, S.A.

Portal Place, Astron Business Park, Heathcote Road,  
Swadlincote, Derbyshire. DE11 9DW  
Tel: 01283 554186 Fax: 01283 554199

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

J B Kind/Irmade FD30 Timber  
Door Assemblies

#### TECHNICAL SCHEDULE

TS10 Fire Resisting Door  
Assemblies with Non Metallic  
Leaves

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan  
Certification Manager

Issued: 7<sup>th</sup> October 1997  
Reissued: 28<sup>th</sup> March 2019  
Valid to: 27<sup>th</sup> March 2024





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**CERTIFICATE No CF 154**  
**J B KIND LIMITED & IRMADE- INDÚSTRIAS**  
**DE REVESTIMENTO DE MADEIRAS, S.A.**

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**J B Kind/IRMADE FD30 TIMBER DOOR ASSEMBLIES**

This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 30 minutes integrity as defined in BS 476: Part 22. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD30 door assemblies when used in accordance with the provisions therein.

1. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. The doors are approved on the basis of:
  - i) Initial type testing
  - ii) A design appraisal against TS10
  - iii) Inspection and surveillance of factory production control
  - iv) Certification under a CERTIFIRE approved Quality Management System
  - v) Audit testing in accordance with TS10
3. The doors comprise cellulosic (flaxboard) cored, timber framed leaves in various finishes for use with timber frames, with intumescent edge seals (code ITT FD30 respectively).
4. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully fitted form it is a condition of this approval that an agreed Data Sheet accompanies the product and is complied with in its entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door.
5. This approval is applicable to single-acting, single and double-leaf, latched and unlatched, ITT assemblies at leaf dimensions up to those detailed within Table 1.
6. Glazing shall only be undertaken by J B Kind Limited, Irmade, or a CERTIFIRE approved Licensed Door Processor, and shall be in accordance with the Data Information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.
7. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.
8. The doorset shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.

Page 2 of 3 Signed  
W/007

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### J B Kind/IRMADE FD30 TIMBER DOOR ASSEMBLIES

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF154 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
10. This approval relates to on-going production. Product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application when appropriate.

This leaf may be used in a single-acting, single and double-leaf configurations up to a maximum size as detailed below in Table 1.

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-acting, Single-leaf (latched/unlatched) Single LP1504 intumescent 15 mm wide by 4 mm thick	2345 mm (at 826 wide)	950 mm (at 2040 mm high)	1.94
Oversized Single-acting, Single-leaf <b>Latched only</b> Single LP2004 intumescent 20 mm wide by 4 mm thick	2420 mm (at 1000 wide)	1100 mm (at 2200 mm high)	2.42
Single-acting, Double-leaf (latched/unlatched) 2No. 15 x 4 mm intumescents to meeting edge (see Table 3)	2275 mm (at 884 mm wide)	986 mm (at 2040 mm high)	2.01
Oversized Single-acting, Double-leaf <b>Latched only</b> 1No. 20 x 4 mm intumescents to meeting edge (see Table 3)	2640 mm (at 1000 mm wide)	1200 mm (at 2200 mm high)	2.64

**Table 1. Maximum Permitted Door Leaf Dimensions**

Note: Under no circumstances must either the maximum height or maximum width be exceeded without separate CERTIFIRE approval.

Please note doors may be specially manufactured at 2133 mm by 915 mm with additional internal framing to permit reduction in size by up to 75 mm from top or bottom edges. Such doors are clearly identified by 'BLANK' printed on the bottom edge of the door. Doors not identified in this way should not be reduced in size.

## CF 154 DATA SHEET

### 1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 30 when used in accordance with the provisions therein.

In recognition of this, the leaf carries a prefixed label on the top or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with a CERTIFIRE approved Quality Management System and is subject to on-going surveillance. This label shall not be removed.

It is emphasised that the certification is conditional upon the following instructions being complied with in their entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door. Door assemblies supplied pre-fitted with components by JB Kind/Irmade may be considered to meet the requirements in respect of those items.

### 2. Door Leaf Dimensions

This approval is applicable to single-acting, single and double-leaf, assemblies at leaf dimensions up to those detailed within Table 1 below:

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-acting, Single-leaf (latched/unlatched) Single LP1504 intumescent 15 mm wide by 4 mm thick	2345 mm (at 826 wide)	950 mm (at 2040 mm high)	1.94
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### 3. Door Frame

To be any of the following:-

Softwood or Hardwood	i) Density:	450 kg/m <sup>3</sup> min.
	ii) Dimensions:	68 mm by 30 mm min (lining)
	iii) Door Stop:	12 mm deep pinned, screwed, or rebated from solid (450 kg/m <sup>3</sup> min)  Where rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
MDF	i) Density:	610 kg/m <sup>3</sup> min.
	ii) Dimensions:	69 mm by 28 mm min.
	iii) Door Stop:	12 mm deep pinned, screwed, or rebated from solid (610 kg/m <sup>3</sup> min)  Where rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
Jointing:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws	
Door to frame gaps:	Not to exceed 4 mm except at threshold where up to 12 mm is permitted and 3.5 mm at the meeting stiles	

### 4. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 70 mm, providing at least 30 minutes fire resistance. Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies as recommended by the partition manufacturer.

### 5. Installation:

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width 70 mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon fixings at maximum 600 mm centres penetrating the wall to at least 50 mm. Architraves are optional with no restrictions on material, size or fixing.

Door assemblies shall be installed as stated in BS 8214. Suitable CERTIFIRE approved lineal gap sealing systems may also be utilised to protect the frame/supporting construction gap, subject to the conditions contained within the relevant certificate.

The use of third party accredited installers provides a means of ensuring that installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

Door leaves may be trimmed to fit the frame by the following maximum amounts:

- Stiles (each): 3 mm
- Top: 3 mm
- Bottom: 5 mm

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 CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

The labelled edge may be subjected to minor 'shooting-in', providing the label is not damaged or

removed in the process, and the amount of material removed does not exceed that stated previously.

## 6. Glazed Apertures

All apertures to be factory prepared by J B Kind Limited, Irmade or CERTIFIRE approved Door Modifier. No site cutting of apertures permitted as this will invalidate the certification.

Door may incorporate CERTIFIRE approved non-insulated glass or glazing systems subject to the conditions contained within the relevant CERTIFIRE certificate (e.g. maximum size associated with glass, system, edge cover, aperture lining requirements, etc.) and the maximum pane dimensions given below (whichever is smaller):

Note: Apertures must be lined with 1 mm thick by 42 mm wide interdens sheet material.

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below:

Area: Maximum total glazed area of 0.96 m<sup>2</sup> per leaf

Margins: 90 mm from the perimeter edge, 90 mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
1600 (at 600 wide)	600 (at 1600 high)	0.96

Hardwood or non-combustible setting blocks will be used to establish the correct edge cover where required.

## 7. Intumescent Seals

CERTIFIRE certificated intumescent seals are required to be fitted to these doors as below.

### For door assemblies to BS476: Part 22 – classified as FD30 – Timber frames

Configuration*	Position	Required Intumescent Protection
Single-Acting Single-Leaf	Head	Single LP1504 15 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
	Vertical edges	Single LP1504 15 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
Oversize Single-Acting Single-Leaf Latched only	Head	Single LP2004 20 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
	Vertical edges	Single LP2004 20 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
Single-Acting Double-Leaf	Head	Single LP1504 15 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
	Hanging Edges	Single LP1504 15 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
	Meeting Edges (square or rebated)	Single LP1504 15 mm wide by 4 mm thick fitted 7mm from the face of both leaf (not opposing)
Oversize Single-Acting Double-Leaf Latched only	Head	Single LP1504 15 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
	Hanging Edges	Single LP1504 15 mm wide by 4 mm thick fitted on centre line of leaf edge or within frame reveal
	Meeting Edges (Square only)	Single LP2004 20 mm wide by 4 mm thick fitted centrally in secondary leaf only.

**Table 3. Intumescent Specification**

\*See Table 1 for size restrictions

Latched or unlatched, single acting, single-leaves with maximum leaf dimensions 2040 mm high by 926 mm wide and of a minimum thickness of 43 mm may utilise alternative Intumescents in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

All other door assembly configurations should include the specific intumescent size type and location as specified within the data sheet.

Seals may be interrupted at hinge and latch positions.

Smoke seals may be included subject to the conditions contained within the relevant CERTIFIRE certificate for the smoke seal.

## 8. Hinges

Hinges shall be CE Marked against EN 1935 for use on 30 minute timber fire door assemblies.

Number:	Minimum 3No.
Type:	Steel lift off or butt hinges.
Positions*:	Maximum 280 mm from top of door to top hinge Maximum 280 mm from bottom of door to bottom hinge. Middle hinge fitted centrally in the leaf height.
Dimensions:	Blade height: 100 - 110 mm high. Blade width: 35 - 40 mm. Blade thickness: 3 mm ( $\pm 0.5$ mm) Knuckle diameter: 14 mm ( $\pm 1$ mm)
Fixings:	Minimum 4No. steel screws, minimum No 8. by 32 mm long.
Intumescent Protection**:	Bedded on 2 mm thick Interdens (Single-acting double-leaf doorsets only)

\* The datum in all cases is the centreline of the hinge.

\*\* This specification overrides any requirement for additional intumescent identified in the hinge manufacturer's certification providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material.

Note: Where a fourth hinge is required this can be fitted in a 2No. top, 1No. Bottom and 1No middle configuration or a 1No. top and bottom with the 2 remaining hinges fitted equally between.

A further 3No hinge configuration is permitted whereby the middle hinge is positioned 300 mm ( $\pm 100$  mm) below the top hinge. This hinge configuration is limited to the following leaf configurations and sizes as detailed in table 4.

Configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-acting, Single-leaf (latched/unlatched) Single LP1504 intumescent 15 mm wide by 4 mm thick	2345 (at 826 wide)	950 (at 2040 high)	1.94
Single-acting, Double-leaf (latched/unlatched) 2No. 15 x 4 mm intumescents to meeting edge (see Table 3)	2275 (at 884 wide)	986 (at 2040 high)	2.01

**Table 4. Max leaf sizes for a 2No. top and 1No. bottom hinge configuration.**



Any other CERTIFIRE approved hinge may be fitted, providing the hinge dimension are no greater than 10% in blade width and 25% in blade height from that approved above.

Where the Certifire approved hinge exceeds the specification given above, the minimum requirement for intumescent protection to the hinges, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the hinge manufacture's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved hinges may be used, subject to the conditions contained within the relevant certificate.

## **9. Locks & Latches**

Locks / latches, where fitted, shall be CE marked for use on 30 minute timber fire doors in addition to the specification below.

Mortice type, automatic (sprung) latch bolt.

Max. case dimension:	120 mm high by 90 mm deep by 22 mm wide
Max. forend dimension:	176 mm high by 26 mm wide
Max. keep dimension:	176 mm high by 26 mm wide (excluding latch plate lip)
Latchbolt material:	Steel or material with a melting point greater than 950°C
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent: protection*	Latch cases to be fully wrapped in 1 mm thick interdens sheet material.(Single-acting, double-leaf assemblies only)

\* This specification overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified above, specifically maximum dimensions and material.

Any other CERTIFIRE approved lock/latch may be fitted, providing no lock/strikeplate dimension is more than 25% of that approved above and subject to the conditions contained within the relevant certificate.

Where the Certifire approved lock/latch exceeds the specification given above, the minimum requirement for intumescent protection to the locks, latches and strikeplates, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the lock/latch manufacture's CERTIFIRE certificate shall apply.

Locks / latches may be included within the meeting edge of rebated door leaves in accordance with the specification provided above and a steel lock rebate kit.

Recessing for locks should result in a tight fit, allowing for any intumescent protection where required.

No restriction on type and material of mechanical lever handles and knobs.

## **10. Self-Closing Devices**

All doors are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doors kept locked shut such as service access doors. Note: closers with mechanical hold-open mechanisms are not permitted to be used. Building Regulations may identify locations within domestic locations where self-closing devices are not mandatory.



The closers shall have a power rating appropriate to the leaf sizes, subject to the closer having the ability to close the door from any angle and against any latch and/ or seals fitted.

The closer shall have the ability to provide size 3 closing force. Where doors are unlatched a minimum size 3 shall be maintained.

Closers shall be CE Marked against EN 1154 and categorised as grade 1 – suitable for use on fire / smoke door assemblies.

#### **10a Surface mounted overhead closers**

Any CERTIFIRE approved surface mounted overhead closer may be fitted, subject to the conditions contained within the relevant certificate.

#### **10b Transom Mounted and Concealed Closers**

Not permitted

#### **10c Floor Springs**

Not permitted

### **11. Ancillary items**

**Please note that hardware items other than those discussed within this certificate of approval are not permitted.**

#### **11a Protection plates and signage**

Surface mounted plastic, steel, aluminium or brass plates are acceptable on the basis that they are:

- < 2mm thick
- Do not occupy more than 20% of the door leaf in total, or exceed 500mm in height for kickplates and 300mm for mid-plates, whichever is the smaller.
- Do not wrap around the vertical edges, and on the closing face do not extend beneath the door stops (generally 40-50mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally screws may be used.

#### **11b Flushbolts**

Not permitted

#### **11c Pull Handles**

Screw-fixed, bolt-fixed from the back and back-to-back fixed pull handles of steel, brass, aluminium and nylon coated, are permitted providing any through-bolt fixing is of steel.

#### **11d. Dropseals**

CERTIFIRE approved dropseals with maximum dimensions 14 mm wide by 35 mm high may be incorporated within the bottom edge of the door leaf.

Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

Note: Threshold gaps as stated in Section 3 are to be maintained

### **11e Air transfer grilles**

No site cutting of apertures permitted as this will invalidate the certification.

Where apertures are pre-cut by JB Kind Limited, Irmade, or a CERTIFIRE approved Licensed Door Processor, Intumescent Air Transfer Grilles may be fitted on site by NON-CERTIFIRE approved staff, however, the Intumescent Air Transfer Grilles shall be CERTIFIRE approved for use in FD30 timber based doors.

The air transfer grilles must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille within the door assembly.

### **11f. Door Viewers**

Door viewers may be fitted into the leaf providing the viewer comprises a metal sleeve and an optical glass lens and is not positioned higher than 1500 mm from the threshold. The viewer should have an external diameter of not greater than 15 mm be tightly fitted within the leaf. The aperture provided for the installation of the viewer should be lined with intumescent mastic.

### **11g Letter Plates**

Where letter plates are fitted, the aperture for a letter plate may be formed on site by NON-CERTIFIRE approved staff, however, the letter plates shall be CERTIFIRE approved for use in FD30 timber based doors. The letter plates must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the letter plate. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the letter plate within the door assembly.

### **11h Coat Hooks and Other Surface Mounted Hardware**

Ancillary items which are wholly surface mounted may be fitted providing:

- These items are screw fixed or bonded only
- Are not bolted through the full thickness of the door
- Are not directly above, or closer than 100 mm to any non-insulated glazing

### **11i. Electric Strikes / Electro mechanical locks**

Not permitted

## **12. Further Information**

Further information regarding the details contained in this data sheet may be obtained from J B Kind Limited & IRMADE- Indústrias de Revestimento de Madeiras, S.A. (Tel: 01283 554186).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).