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## CERTIFICATE OF APPROVAL

### No CF 5372

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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

## CORINTHIAN INDUSTRIES (ASIA) SDN BHD

LOT. 37217, Jalan Genting, Off 4th Mile, Jalan Kapar, 42100 Rantau  
Panjang, Klang, Selangor Darul Ehsan, Malaysia

Tel: (int+) 60 3 3291 2363 Fax: (int+) 60 3 3291 1019

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**  
FD30 SLAB 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: 29<sup>th</sup> April 2022  
Audit Test Frequency: Every 5 years  
Valid to: 28<sup>th</sup> April 2027





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## CERTIFICATE No CF 5372

### CORINTHIAN INDUSTRIES (ASIA) SDN BHD

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#### FD30 SLAB 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 a hardwood lipped, particle board core, in various finishes for use with timber frames incorporating intumescent edge seals (ITT FD30).
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-leaf, latched and unlatched, ITT assemblies with leaves 44 mm thick overall. The maximum door leaf sizes are shown in Table 1 below:

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched	2100 mm (at 926 mm wide)	926 mm (at 2100 mm high)	1.94 m <sup>2</sup>

**Table 1**

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



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**FD30 PANELLED TIMBER DOOR ASSEMBLIES**

6. Glazed panels are not permitted.
7. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.
8. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.
9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5372 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
10. This approval relates to on-going production. The 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.

## CF 5372 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 JELD-WEN or Corinthian Industries (Asia) may be considered to meet the requirements in respect of those items.

### 2. Door Leaf Dimensions

This approval is applicable to single-action, single-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Table 1 below.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched	2100 mm (at 926 mm wide)	926 mm (at 2100 mm high)	1.94 m <sup>2</sup>

**Table 1**

### 3. Door Frame

To be any of the following:-

Softwood or Hardwood (Excluding Ash, Beech, Towri, Iroko and Gerrongang)	i) Density:	450 kg/m <sup>3</sup> minimum
	ii) Dimensions:	77 mm by 25 mm minimum
	iii) Door Stop:	12 mm deep pinned, screwed, or rebated from solid (450 kg/m <sup>3</sup> minimum)  Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.  Loose stops shall be glued and pinned or pinned only using 38 mm long steel pins.

MDF	i) Density:	720 kg/m <sup>3</sup> minimum
	ii) Dimensions:	77 mm by 25 mm minimum
	iii) Door Stop:	12 mm deep pinned, screwed, or rebated from solid (720 kg/m <sup>3</sup> min)  Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.  Loose stops shall be glued and pinned or pinned only using 38 mm long steel pins.
Jointing:	Mortice and tenon 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 6 mm is permitted.	

4. **Overpanels / sidepanels:** Not permitted

5. **Glazed Fanlights and Sidelights:** Not permitted

#### 6. **Supporting Construction**

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud supporting constructions of minimum overall thickness 77 mm, providing at least 30 minutes fire resistance and previously proven capable of supporting a fire door assembly for the required integrity performance.

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.

#### 7. **Installation**

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width, 77 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): 4 mm
- Top: 0 mm
- Bottom: 6 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.

**8. Glazed Apertures:** Not permitted

### **9. 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**

<b>Door assembly Configuration*</b>	<b>Position</b>	<b>Required Intumescent Protection</b>
Single-acting, Single-leaf Latched / Unlatched	Head	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal intumescent seal fitted centrally within the frame head reveal or the centre of the door leaf edge.
	Vertical edges	Single 15 mm wide by 4 mm thick ISL Therm-A-Seal intumescent seal fitted centrally within the frame jamb reveals or the centre of the door leaf edge.

\*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 44 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 table above.

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

### **10. Hinges**

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

Number:	Doors up to 2040 mm high	Minimum 3 No. hinges
	Doors 2041 mm high and above	Minimum 4 No. hinges
Type:	Steel lift off or butt hinges.	
Positions:*	Top Hinge:	Max 220 mm from the top of the door to top hinge.
	Middle Hinge:	Middle hinge fitted centrally in the leaf height.
	Bottom.	Max 275 mm from the bottom of the door to bottom hinge
	Note: Where 4No hinges are required the 2No middle hinges should be positioned equally between the top and bottom hinges within the leaf height	

Dimensions:	blade height:	100 mm (+ /- 10%)
	Blade width:	33 mm (+/- 3 mm)
	Thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	14 mm (+/- 1 mm)
Fixings:	Quantity:	4No. steel screws (minimum)
	Softwood or Hardwood frames	No.8 by 32 mm long (minimum).
	MDF frames:	No.8 by 25 mm long (minimum).
Intumescent Protection**	2 mm thick Graphite intumescent sheet material to fully line all hinge blades.	

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

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

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 in the table above (excluding the tolerances stated). Where the Certifire approved hinge exceeds the specification given in the table 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.

## 11. Locks and Latches

Locks / latches are not necessary. When fitted locks / latches shall be CE Marked for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt.

Max. case dimension:	120 mm high by 90 mm deep by 19 mm wide
Max. forend dimension:	160 mm high by 25 mm wide
Max. keep dimension:	160 mm high by 25 mm wide (excluding latch plate lip)
Latchbolt material:	Steel or material with a melting point greater than or equal to 850°C
Position:	Max. 1200 mm from bottom of door to centreline of lockcase
Intumescent: protection*	None required

\* The lock specification above overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified in the table 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 in the table above and subject to the conditions contained within the relevant certificate. Where the Certifire approved lock/latch exceeds the specification given in the table 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.

- Recessing for locks shall result in a tight fit, allowing for the intumescent protection specified.
- No restriction on type and material of face fixed mechanical lever handles and knobs providing these are wholly surface mounted (with the exception of the spindle and fixing holes) and the spindle hole is a maximum 16 mm in diameter.
- The Euro profile cylinder recess in the door face shall follow the shape of the cylinder and result in a tight fit.
- The use of oval profile cylinders is not permitted.

## **12. 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 a minimum 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.

### 12a Surface mounted overhead closers

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

### 12b Transom Mounted and Concealed Closers

Not permitted

### 12c Floor Springs

Not permitted

## **13. Ancillary items**

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

### 13a Protection plates and signage

Not permitted

### 13b Flushbolts

Not permitted

### 13c Pull Handles

Not permitted

### 13d. Air transfer grilles

Not permitted



13e. Letter Plates

Not permitted

13f. Door Viewers

Not permitted

13g. Coat Hooks and Other Surface Mounted Hardware

Not permitted

13h. Dropseals

Not permitted

13i. Electric Strikes / Electro mechanical locks

Not permitted

**14. Further Information**

Further information regarding the details contained in this data sheet may be obtained from JELD-WEN UK (Tel. 01302 394 000) or Corinthian Industries (Asia) Sdn. Berhad. (Tel. Int+ 60 3 3291 2363).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from Warringtonfire Testing and Certification (Tel: +44 (0) 1925 646777).