



CERTIFICATE OF APPROVAL

No CF 5536

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

CORINTHIAN INDUSTRIES INDONESIA

Jl. Mercedes, Desa Cicadas – Gunung Putri, Bogor,
West Java 16964, Indonesia
Tel: +62 21 8670314

&

Desa Loji Kobong, Blok Ki Ireng, Cidenok, Sumber Jaya,
Majalengka, West Java, Indonesia

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

CERTIFIED PRODUCT

FD30 Panelled 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: 13th April 2017
Reissued: 6th June 2022
Valid to: 5th June 2027





CERTIFICATE No CF 5536

CORINTHIAN INDUSTRIES INDONESIA

CORINTHIAN INDUSTRIES INDONESIA FD30 PANELLED 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 doors of multiple sections or cellulosic framing which retains glazed or solid panels, in various finishes for use with timber frames, with 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 44 mm thick, latched and unlatched, single-acting, single and double-leaf, glazed and unglazed ITT assemblies with maximum leaf dimensions up to those given in Table 1 below.
6. Glazing shall only be undertaken by Corinthian Industries Indonesia and shall be in accordance with the Data Information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.

Page 2 of 3 Signed
AM/002, AM/005

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CERTIFICATE No CF 5536 CORINTHIAN INDUSTRIES INDONESIA

CORINTHIAN INDUSTRIES INDONESIA FD30 PANELLED DOOR ASSEMBLIES

- Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.
- The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.
- Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF 5536 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
- 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.

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

Table 1

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

CORINTHIAN INDUSTRIES INDONESIA FD30 PANELLED DOOR ASSEMBLIES CF 5536 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 Corinthian Industries Indonesia may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

This approval is applicable to 44 mm thick, single-action, single and double-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 (m²)
Single-Acting, Single-Leaf Latched / Unlatched	2100 (at 926 wide)	926 (at 2100 high)	1.94
Single-Acting, Double-Leaf Latched / Unlatched	2100 (at 926 wide)	926 (at 2100 high)	1.94

Table 1

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

3. Door Frame

To be any of the following:-

Softwood or Hardwood (Excluding Ash, Beech, Towri, Iroko and Gerrongang)	i) Density:	450 kg/m ³ min.
	ii) Dimensions:	77 mm by 25 mm min.
	iii) Door Stop:	12 mm deep by 25 mm wide pinned, screwed or rebated from solid. Min. 38 mm long pin fixings required. Where rebated from solid the min overall section size is to be increased to 77 mm by 37 mm min. Minimum stop density 450 kg/m ³ .
MDF	i) Density:	720 kg/m ³ min.
	ii) Dimensions:	77 mm by 25 mm min.
	iii) Door Stop:	12 mm deep by 25 mm wide pinned, screwed or rebated from solid. Min. 38 mm long pin fixings required. Where rebated from solid the min overall section size is to be increased to 77 mm by 37 mm min. Minimum stop density 720 kg/m ³ .
Jointing:	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 6 mm is permitted.	
Threshold seals:	Exitex MDS 140 aluminium threshold	

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, 77mm. 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
- 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.

6. Glazed Apertures

All apertures are to be factory prepared by Corinthian Industries Indonesia. No site cutting of apertures permitted as this will invalidate the certification.

Doors may incorporate CERTIFIRE approved 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):

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 1.38 m² per leaf, (Subject to glass type).

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
1855 (at 744 wide)	745 (at 1852 high)	1.38

Hardwood lay-bars, surface mounted to the face of the glass may be included at maximum spacing of 250 mm in line with the following specification:

Glazing bars	Material:	Hardwood (solid)
	Density:	350 kg/m ³ (minimum)
	Dimensions:	22 mm high chamfered on the upper and lower edges at 15°
	Fixing:	Glued and stapled
	Intumescent:	22 mm by 2 mm FGL30 material

PVCu or timber frets may be adhered to the face of the glass via either double-sided self-adhesive tape or hot melt glue.

Non-Insulating glasses: Pyroshield 2 (cut 2 mm less than the aperture height & Width)

Intumescent System	Rebate / Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Therm-A-Strip, 10 mm by 2 mm	Rebate 25 mm deep by 13 mm high or 30 mm deep by 15 mm high	Solid Hardwood* min. 510 kg/m ³	1.6 by 38 mm long pins at max 150 mm centres, max. 50 mm in from corners. Fixings angled at 15° to 30° to the plane of the leaf. Pins applied to both faces of the leaf.	1855 (at 702 wide)	745 (at 1707 high)	1.38 m ²
	Beads 18 mm deep by 13 mm high, square with semi-circular moulding on face or 18 mm deep by 15 mm high splayed at 15°					

Non-Insulating glasses: Pyroguard EW 30

Intumescent System	Rebate / Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Therm-A-Strip, 10 mm by 2 mm	Rebate 25 mm deep by 13 mm high or 30 mm deep by 15 mm high	Solid Hardwood* min. 510 kg/m ³	1.6 by 38 mm long pins at max 150 mm centres, max. 50 mm in from corners. Fixings angled at 15° to 30° to the plane of the leaf. Pins applied to both faces of the leaf.	1855 (at 345 wide)	745 (at 859 high)	0.64 m ²
	Beads 18 mm deep by 13 mm high, square with semi-circular moulding on face or 18 mm deep by 15 mm high splayed at 15°					

* Excluding Ash, Beech, Iroko, Towri & Gerronggang

Typical configurations: Pattern 10, 2XG, 4XG, SC, 4XGG, 4XG, 2XGG.

Non-Insulating glasses: 6 mm Pyroshield 2, 6 mm Pyran S or Pyroguard EW 30

Intumescent System	Glazing Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Therm-A-Bead complete with Fireglaze mastic in glazing pocket Or Fireglaze compound 10 mm wide by 4 mm thick	Formed from stile and rail profiles providing 14 mm wide by 9 mm deep groove for glazing system	Solid Hardwood* min. 510 kg/m ³	1.6 by 38 mm long pins at max 150 mm centres, max. 50 mm in from corners. Fixings angled 20° to the plane of the leaf. Pins applied to both faces of the leaf. Minimum 2No. pins per bead. Door leaves factory glazed with Fireglaze compound may be glazed without pins	1070 (at 345 wide)	345 (at 1070 high)	0.37 m ²

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

Using Intumescent Seals Ltd - Therm-A-Seal or Astroflame - AF1504 FO or Lorient Polyproducts - LP1504 Type 617.

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting, Single-leaf latched / unlatched	Frame Head or Top edge of Leaf	Single 15 mm wide by 4 mm thick Intumescent to be positioned centrally
	Frame Jamb or Vertical edges of Leaf	Single 15 mm wide by 4 mm thick Intumescent to be positioned centrally
Single-acting, Double-leaf latched / unlatched	Frame Head or Top edge of Leaf	Single 15 mm wide by 4 mm thick Intumescent to be positioned centrally
	Frame Jamb or Vertical edges of Leaf	Single 15 mm wide by 4 mm thick Intumescent to be positioned centrally
	Meeting Stiles (Square / radiused)	Single 20 mm wide by 4 mm thick Intumescent to be positioned centrally Or 2No. 10 mm wide by 4 mm thick opposing seals offset by 2-3 mm
	Meeting Stiles (Equal rebated)	2No. 10 mm wide by 4 mm thick positioned 2-3 mm from the rebate

Seals may be interrupted at hinge and latch positions.

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.

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 greater than 2040 mm high:	Minimum 4 No. hinges
Type:	Steel lift off or butt hinges.	
Positions:*	Top Hinge:	Max 200 mm from the top of the door to top hinge.
	Middle Hinge:	Middle hinge fitted centrally in the leaf height.
	Bottom.	Max 300 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**	None required.	

* 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
- Rebate conversion kit bedded onto intumescent mastic may be used on rebated double-leaf doorsets. Maximum case dimensions of 57 mm high by 78 mm wide by 25 mm thick.
- A Winkhaus multi-point lock may be fitted and shall be bedded onto Pyromas A intumescent mastic.

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 Door Viewers

Not permitted

13b Flushbolts

Not permitted

13c 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.

13d 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 fixings are of steel and maximum bolt to bolt centres do not exceed 1000 mm.

A maximum 15 mm diameter recess is permitted for through bolt fixings.

Bolt through fixings will require intumescent protection in the form of a 1 mm thick graphite tube, or Intumescent mastic to the full depth of the recess.

13e Air transfer grilles

Not permitted

13f Letter Plates

Not permitted

13g 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

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 Corinthian Industries Indonesia (Tel: +62 21 8670314).

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