



CERTIFICATE OF APPROVAL

No CF 5464

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

JH INDUSTRIES (HUET)

30 Rue Pauline de Lezardiere, BP. 559 – 85305
Challans Cedex, France
Tel: +33 (0) 2 51 49 53 00

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

Huet FD30 Chorus 42 & Chorus 46
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: 13th September 2016
Revised: 25th June 2020
Valid to: 12th September 2021

Page 1 of 3





CERTIFICATE No CF 5464 JH INDUSTRIES (HUET)

HUET CHORUS 42 and CHORUS 46 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 their 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. This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation 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.
4. The doors comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD30).
5. 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.
6. This approval is applicable to latched, single-acting, single and double-leaf, ITT assemblies without overpanels, at leaf dimensions up to those given in Table 1 below:



CERTIFICATE No CF 5464 JH INDUSTRIES (HUET)

HUET CHORUS 42 and CHORUS 46 FD30 TIMBER DOOR ASSEMBLIES

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched	2850 (at 979 wide)	1180 (at 2364 high)	2.79
Single-Acting, Double-Leaf Latched	2850 (at 1180 wide)	1180 (at 2850 high)	3.36

Table 1

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

- Glazing shall only be undertaken by the door manufacturer, 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.
- 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. CF5464 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.

HUET CHORUS 42 and CHORUS 46 FD30 TIMBER DOOR ASSEMBLIES CF 5464 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 JH Industries (Huet) may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

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

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched	2850 (at 979 wide)	1180 (at 2364 high)	2.79
Single-Acting, Double-Leaf Latched	2850 (at 1180 wide)	1180 (at 2850 high)	3.36

Table 1

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

3. Door Frame

To be any of the following:-

- | | | |
|--|--|---|
| Hardwood:
(engineered finger
jointed or solid) | i) Density: | 680 kg/m ³ min. |
| | ii) Dimensions: | 90 mm by 51 mm minimum. |
| | iii) Rebate - Chorus 42 | 48 mm by 18 mm single rebate detail |
| | iv) Rebate - Chorus 46 | 59 mm by 15 mm double rebate detail
(44.5 mm by 10.5 mm) |
| 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 4.0mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles | |
| Finish: | Frames can be lacquered, stained or varnished.
Frames may be timber veneer wrapped. | |

4. Overpanels

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 of minimum thickness 100 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.

7. Installation

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width, 100mm. 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.

8. Glazed Apertures

All apertures to be factory prepared by JH Industries (Huet), or a CERTIFIRE approved Licensed Door Processor. No site cutting of apertures permitted as this will invalidate the certification.

Door may incorporate CERTIFIRE approved glazing systems only 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 vision panel to the maximum sizes identified in the table below:

Area: Maximum total glazed area of 0.1 m² per leaf

Margins: 200 mm from the perimeter edge.

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
500 (at 200 wide)	315 (at 315 high)	0.1

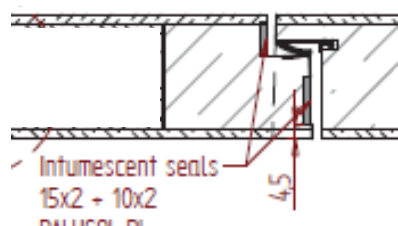
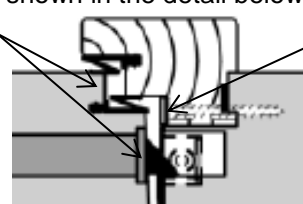
Hardwood or non-combustible setting blocks will be used to establish the correct edge cover.

Both leaves in a double-leaf door assembly shall be glazed similarly.

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 – Timber frames

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting, Single-leaf latched	Head	Single 25 mm wide by 2 mm thick Odice Palusol PL seal
	Vertical edges	Single 25 mm wide by 2 mm thick Odice Palusol PL seal
Single-acting, double-leaf door assemblies latched	Head	Single 25 mm wide by 2 mm thick Odice Palusol PL seal
	Vertical edges	Single 25 mm wide by 2 mm thick Odice Palusol PL seal
	Chorus 42 Meeting edge	Single 15 mm by 2 mm thick and a single 10 mm by 2 mm thick Odice Palusol PL seals to the primary leaf positioned as shown in the detail below:  Intumescent seals 15x2 + 10x2 PALUSOL PL
	Chorus 46 Meeting edge	Single 15 mm by 2 mm thick and a single 10 mm by 2 mm thick Odice Palusol PL seals to the primary leaf as shown for the Chorus 42 and a single 10 mm by 2 mm thick Odice Palusol PL seal to the secondary leaf positioned as shown in the detail below:  Intumescent seals 15 x 2 + 10 x 2 Palusol PL to primary leaf meeting edge Intumescent seal 10 x 2 Palusol PL to secondary leaf meeting edge

*See Table 1 for size restrictions

Seals may be interrupted at hinge and latch positions.

Seals may be positioned within the door or frame in accordance with the above table.

Alternative intumescent seals are not permitted.

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

Acoustic seals referenced Stac 097 may be fitted within the frame rebate complete with Stac 095 seals to the rebated meeting stile of the secondary leaf.

10. Hinges

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

Number:	Minimum 4 No.
Type:	Steel lift off or butt hinges.
Positions:*	Maximum 200 mm from the top of door to top hinge. Maximum 200 mm from the top hinge to the second hinge Maximum 340 mm from the bottom of door to bottom hinge. Middle hinge fitted centrally between the top and bottom hinges.
Dimensions:	
Hinge Option No.1	i) Height: 160 mm ($\pm 20\%$) ii) Blade width: 28mm (+2 mm / -3 mm) iii) Thickness: 3.8 mm (+/- 0.5 mm) iv) Knuckle dia.: 14.5 mm (+/- 1 mm)
Fixings:	Minimum 4No. steel screws, minimum No.8 by 30 mm long.
Intumescent Protection**	None required.
Approved hinges:	Lift of hinges – 160 mm by 70 mm Lift of hinges – 140 mm by 70 mm
Hinge Option No.2	i) Height: 100 mm ($\pm 20\%$) ii) Blade width: 35mm (+2 mm / -4 mm) iii) Thickness: 3 mm (+/- 0.5 mm) iv) Knuckle dia.: 14 mm (+/- 1 mm)
Fixings:	Minimum 3No. steel screws, minimum No.8 by 32 mm long.
Intumescent Protection**	None required.
Approved hinges:	Union J604 – Lift off hinge Union J605 – Butt hinge Häfele 102 mm by 76 mm butt hinges (926.33.102, 926.90.203 or 926.90.213)

* 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. Where alternative hinges exceed the specification given above the intumescent protection as identified 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.

11. Locks and Latches

Certifire approval is on the basis that the assemblies are latched.

Locks / latches shall be CE Marked for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt, cylinder rim nightlatches and knobsets.

Max. case dimension:	174 mm high by 139 mm deep by 22 mm wide	
Max. forend dimension:	240 mm high by 24 mm wide	
Max. keep dimension:	200 mm high by 40 mm wide	
Latchbolt material:	Steel	
Position:	Max. 1045 mm from bottom of door to centreline of spindle	
Intumescent: protection*	Latch case - faces:	1 mm interdens sheet material to fully cover each face of the lock case
	Latch case – edges:	2 mm interdens to fully cover the case edges
	Strike plate:	2 mm interdens sheet material to fully cover the rear of the strike plate.
Approved locks / latches:	<ul style="list-style-type: none">• Häfele Startec Grade 3 (code 911.02.151/152)• Marques 725• Vachette D45• Bricard S900• Vingcard Signature or Classic (Euro or ANSI) with face fixed RFID or handle mounted card reader• Onity Advance / HT24/28 or HT (Euro) with face fixed RFID or handle mounted card reader	

* 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. Where alternative lock/latch exceeds the specification given above the intumescent protection as identified in the lock/latch manufacture's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved lock/latch may be fitted, subject to the conditions contained within the relevant certificate.

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

No restriction on type and material of handles.

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.

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

13. Ancillary items

13a 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.

13b 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.

13c Door guard

Häfele Security door guards referenced 911.59.085 may be fitted to single leaves where required at maximum 1400 mm from the bottom of the leaf to the centre line of the door guard.

The Security door guard body and forend are to be protected by 2 mm by 10 mm interdens sheet material.

13d Air transfer grilles

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

Where apertures are pre-cut by JH Industries (Huet), 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.

Dimensions: Doors may incorporate one air transfer grille to the maximum sizes identified in the table below:

Area: Maximum total area of 0.1 m² per leaf

Margins: 200 mm from the perimeter edge.

Maximum Permitted Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
500 (at 200 wide)	315 (at 315 high)	0.1

Both leaves in a double-leaf door assembly shall include air transfer grilles.

13e 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.

13f Door Viewers

Max. external diameter:	Ø14 mm
Sleeve material:	Brass or steel
Lens material:	Glass
Position:	Max. 1500 mm from bottom of door to centreline of viewer
Intumescent: protection*	None required
Approved door viewers:	<ul style="list-style-type: none">• Jourjon (code 99940)• Häfele (code 959.00.003 – Chrome plated)• Häfele (code 959.00.004 - Polished)• Häfele (code 959.00.008 - Burnished)• Häfele (code 959.00.017 – Matt nickel plated)

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
- Are not directly above, or closer than 100 mm to any non-insulated glazing

13h Dropseals

Athmer Schall-Ex, L-15/30, aluminium drop seals max 30 mm by 15 mm may be fitted centrally to the bottom edge of the door leaves.

13i Thresholds

Thresholds may be included as part of the door assembly in conjunction with dropseals or threshold seals where required as specified below:-

- 3 mm Steel threshold
- 35 mm by 12 mm Flat threshold
- 67 mm by 15 mm Chamfered threshold
- 67 mm by 19 mm Rebated threshold
- 35 mm by 20 mm Swiss threshold
- 67 mm by 27 mm Swiss threshold

13j Threshold seals

Indoplast triple bladed wipe seals max 29 mm by 25 mm may be fitted centrally to the bottom edge of the door leaves.

13k Flushbolts

Max. dimension:	400 mm high by 13.3 mm deep by 16.3 mm wide
Material:	Steel
Position:	Top and bottom on door edge, central within the rebate to the secondary leaf.
Intumescent: protection	15 by 2 mm interdens to the back of the flushbolts
Mode:	Flushbolts to be engaged.

14. Further Information

Further information regarding the details contained in this data sheet may be obtained from JH Industries (Huet) (Tel: +33 (0) 2 51 49 53 00).

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