



CERTIFICATE OF APPROVAL

No CF 192

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

JELD-WEN UK LIMITED

Woodhouse Mill, Sheffield, South Yorkshire S13 9WH
Tel: 0114 2542000 Fax: 0114 2696696

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

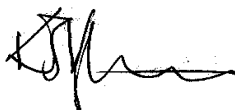
CERTIFIED PRODUCT

**JELD-WEN UK Limited FD30
 Timber Door Assemblies
 (Tubeboard Construction)**

TECHNICAL SCHEDULE

**TS10 Fire Resisting Door
 Assemblies with Non Metallic
 Leaves**

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight
 Chairman - Management Council

Issued: 30th November 1998
 Reissued: 23rd January 2015
 Valid to: 22nd January 2020

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CERTIFICATE No CF 192

JELD-WEN UK LIMITED

JELD-WEN UK LIMITED. FD30 TIMBER DOOR ASSEMBLIES (TUBEBOARD CONSTRUCTION)

1. 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: 1987. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD30 doorsets when used in accordance with the provisions therein.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. The doors are approved on the basis of:
 - i) Initial type testing
 - ii) Audit testing at the frequency specified in TS10
 - iii) A design appraisal against TS10
 - iv) Certification of quality management system to ISO 9001: 2008.
 - v) Inspection and surveillance of factory production control
4. The doors comprise timber cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD30).
5. This approval is applicable to both complete doorsets and door leaves. Where the door is not supplied in a completely 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-leaf and latched/unlatched single-acting double-leaf, ITT assemblies with or without overpanels, at leaf dimensions up to those given in Table 1 and Figure 1.
7. Hardware items, including closing devices and intumescent edge seals, shall be CERTIFIRE approved or otherwise 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.



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9. Labels to the BWF/CERTIFIRE design referencing JELD-WEN UK Limited, CERTIFIRE and CERTIFIRE Ref. No. CF192 and FD30 fire resistance shall be fixed to each door in the prescribed position.
10. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Table 1
Size Envelope

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Double-Leaf Latched / Unlatched	2160 (at 926 wide)	980 (at 2040 high)	2.00

- (1) All doorset configurations may incorporate overpanels which include a flush transom as detailed within data sheet.



**JELD-WEN UK LIMITED. FD30 TIMBER DOOR ASSEMBLIES
(TUBEBOARD CONSTRUCTION)
CF 192 DATA SHEET**

1. General

This door leaf has been tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes insulation and 30 minutes integrity as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the door would be expected to meet the relevant requirements of BS 9999 for FD30 doorsets when used in accordance with the provisions therein.

In recognition of this the leaf carries a prefixed label on the top edge of the door issued under the terms of the British Woodworking Federation - CERTIFIRE fire resisting door scheme. This label uniquely identifies the door leaf, the manufacture of which complies with BS ISO 9001 for quality systems and is subject to on-going surveillance. **This label must 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 UK Limited may be considered to meet the requirements in respect of those items.

2. Door Leaf

This leaf may only be used in a latched or unlatched, single-acting, single or double-leaf configuration. The following table gives a maximum door leaf height (mm) at a standard width and a maximum width at a standard height (excluding overpanel). Intermediate maximum dimensions may be calculated by linear interpolation between the absolute maximum values as shown on Table 1 (reproduced below).

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m²)
Single-Acting, Double-Leaf Latched / Unlatched	2160 (at 926 wide)	980 (at 2040 high)	2.00

- (1) Overpanels to be supplied by JELD-WEN UK Limited Overpanels incorporating a transom rail may be fitted up to height of 1000 mm **in addition** to the sizes above.
- (2) Maximum permitted values at dimensions greater than specified in the headings may be determined graphically by linear interpolation between the two data points for each configuration. Under no circumstances must either the maximum height or maximum width be exceeded without separate CERTIFIRE approval.



3. **Door Frames** To be any of the following:
- | | | |
|---------------------|---|---|
| Softwood | - | Minimum density 440 kg/m ³ and basic section sizes 70 mm by 30 mm plus a pinned, screwed or rebated from solid stop of minimum dimensions 12 mm deep minimum density 440 kg/m ³ . |
| Hardwood | - | As above |
| MDF | - | Minimum density 720 kg/m ³ and basic section sizes 70 mm by 25 mm including a pinned, screwed or rebated from solid stop of minimum dimensions 12 mm deep. |
| Timber Split Frames | - | permitted providing section opposite door edge complies with minimum requirements for single section timber frames. |

4. **Door Gaps**

Gaps between doors and between door and frame shall be 3mm ± 1mm. Leaf to cill gaps shall not exceed 10 mm.

5. **Supporting Construction**

The door assemblies are approved to be installed in brick, block, masonry or timber or steel stud of minimum thickness 70mm, providing at least 30 minutes fire resistance.

6. **Installation:**

The opening may be lined with softwood, hardwood or plywood which shall be continuous and of minimum width 70 mm. Any voids between lining and wall or frame and wall up to a maximum of 20 mm, to be filled in accordance with Table 2 of BS 8214: 1990. Each door frame jamb to be fixed through to the wall at not less than three points with steel fixings penetrating the wall to at least 50 mm.

In addition the frame head of double-leaf doors shall be similarly fixed. Any voids between door frame and lining or door frame and wall to be filled as above for lining to wall gaps. Architraves are optional with no restrictions on material, size or fixing.



7. Glazed Apertures

All apertures to be factory prepared. **No site cutting of apertures permitted. Door leaves within double leaf-doorsets shall be glazed equally.**

7.1 Glazing system (see also Figure 2, overleaf)

Glass:	6 mm thick Georgian Wired Polished Plate
Intumescent:	
i) Type A:	Pyrostrip 300 (15 mm wide by 2 mm thick) or Pyroglaze (10 mm wide by 3 mm thick)
ii) Type B:	Intuplus (15 mm wide by 2 mm thick)
Aperture Lining:	
i) Type A:	Pyrostrip 300L (44 mm wide by 2 mm thick)
ii) Type B:	Therm-A-Line (44 mm wide by 2 mm thick)
Beads:	
i) Material:	hardwood, to be tightly mitred at joints
ii) Dimensions:	19 mm by 21 mm chamfered including a 4 mm high by 6 mm wide bolection return
iii) Density:	640 kg/m ³ minimum
Fixing:	50 mm long steel screws at maximum 150 mm centres (maximum of 40 mm from each corner) at 35° to the vertical
Door Leaf Infill:	
i) Type A:	Entire extruded tube (at bottom edge of aperture) to be filled with Intuplus
ii) Type B:	Entire extruded tube (at bottom edge of aperture) to be filled with plaster
Setting Block:	Glass is to be bedded onto hardwood setting block of dimensions 6 mm wide by 3 mm thick

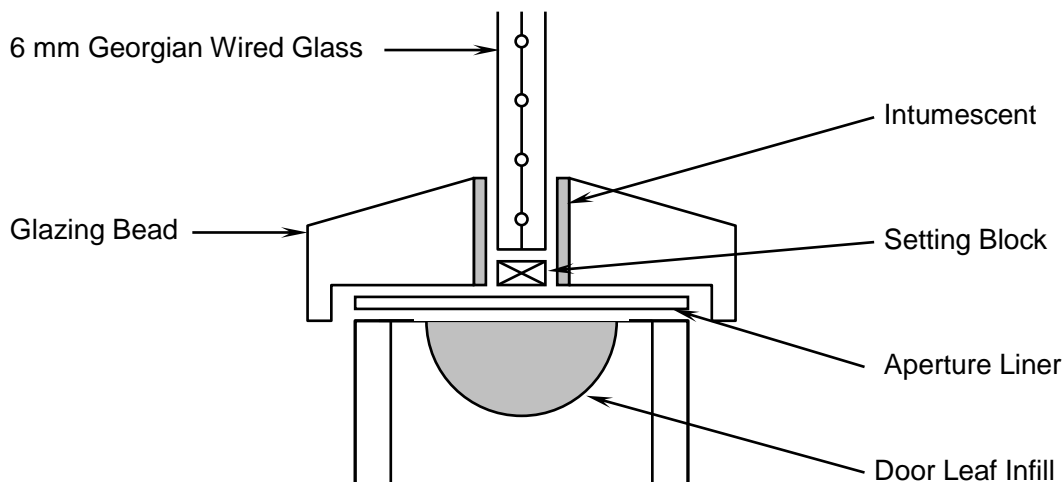


Figure 2. - Glazing Detail



7.2 Alternative Glazing system (Type C)

Glass:	6 mm thick Pyroshield (Georgian Wired Polished Plate) Pyroguard C/W
Intumescent:	ISL Therm-A-Strip 10 mm by 2 mm
Aperture Lining:	6 mm thick Hardwood minimum density 550 kg/m ³
Beads:	
i) Material:	Hardwood, to be tightly mitred at joints
ii) Dimensions:	23 mm by 25 mm chamfered including a 10 mm high by 7 mm wide bolection return
iii) Density:	550 kg/m ³ minimum
Fixing:	40 mm long steel pins at maximum 200 mm centres (maximum of 40 mm from each corner) at 35° to the vertical.

7.3 Alternative Glazing system (Type D)

Glass:	6 mm thick Pyroshield, Pyroguard C/W, Pyran S
Intumescent:	ISL Therm-A-Strip 10 mm by 2 mm
Aperture Lining:	6 mm thick Hardwood minimum density 550 kg/m ³
Beads:	
i) Material:	MDF, to be tightly mitred at joints
ii) Dimensions:	Minimum 25 mm wide by 22 mm high or 25 mm wide by 15 mm high including a 5 mm bolection return. The beads may be square topped or splayed up to 10° with 15 mm cover to the glass edge. The beads are to be tightly mitred at all corners.
iii) Density:	720 kg/m ³ minimum
Fixing:	38 mm long steel pins or screws at maximum 150 mm centres (minimum 3 per edge) at 20° to the vertical.

Maximum Aperture Dimensions			
Glazing System Reference	Maximum Height	Maximum Width	Maximum Aperture Area
Type A	770 mm	642 mm	0.49 m ²
Type B	960 mm	310 mm	0.31 m ²
Type C	1000 mm	850 mm	0.85 m ²
	1150 mm	150 mm	0.173 m ²
Type D	910 mm	726 mm	0.60 m ²
	1410 mm	250 mm	0.35 m ²



8. Intumescent Seals

Intumescent Seals are required to be fitted to these doors.

The specification of the seals will be:

Doorset Configuration	Position	Intumescent Type / Position
Single-Acting, Single-Leaf	Head & Vertical edges	1 No. 15 mm wide by 4 mm thick Lorient Polyproducts Ltd LP1504 (Type 617) fitted at the centre of the leaf edge or within the reveal to the frame or transom rail
Single-Acting, Double-Leaf	Head	1 No. 20 mm wide by 4 mm thick Lorient Polyproducts Ltd LP2004 (Type 617) fitted centrally within the reveal to the frame.
	Hanging Edges	1 No. 15 mm wide by 4 mm thick Lorient Polyproducts Ltd LP1504 (Type 617) fitted centrally within the reveal to the frame or transom rail
	Meeting Edges (plain meeting stiles only)	1 No. 15 mm wide by 4 mm thick Lorient Polyproducts Ltd LP1504 (Type 617) in the edge of both leaves, offset from centre such that the seals are not opposing.

Seals may be interrupted at hinge and latch positions. Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

9. Overpanels

Overpanel may be up to 1000 mm high and 1960 wide, and shall be constructed identically to the door leaf. The overpanel shall be separated from the door leaves by a softwood or hardwood frame section of minimum dimensions as specified in Section 3. Intumescent seals as specified in Section 8 shall be fitted centrally to all for edges of the overpanel or within the reveal of the frame.

10. Threshold/Acoustic Seals

Lorient Polyproducts IS8010Si threshold seals may be included and shall be bedded onto intumscent mastic or 1 mm thick Interdens intumscent material.

Lorient Polyproducts IS1212 smoke seals may be included and shall be uninterrupted and fixed around the head and vertical edges of the frame.

11. Letterplates

The above referenced doorsets may include Lorient Polyproducts Limited or Mann McGowan Fabrications Limited Letterplate assemblies. The apertures shall be cut no more than 250 mm (vertically) from the mid-height of the door leaf. Alternative CERTIFIRE approved letterplates may also be installed in-line with the relevant Data sheet.



12. Hinges

Hinges shall be CE marked for use with fire resisting timber doors, in addition to the specification below.

Number	-	3 off
Type	-	Steel butt, any washers or ball bearings to be of steel
Positions	-	Nominally 250 mm from the head and threshold of the leaf. Centre hinge to be between 500 mm and 1000 mm from the head of the door leaf (± 50 mm)
Dimensions		
i) height	-	100 - 110 mm high
ii) blade width	-	32 - 35 mm
iii) knuckle dia	-	10 mm (± 1 mm)
Fixings	-	4 No. steel screws 3 or 4 mm dia. by 30 mm long
Protection	-	Not required

13. Latches

Where fitted, latches shall be CE marked for use on fire resisting timber doors, in addition to the specification below:

Type	-	Mortice automatic (sprung) latch bolt
Case dims	-	Maximum 120 mm high, 90 mm wide by 22 mm thick
Latch bolt	-	Steel
Handles	-	No restriction on type or material
Position	-	Shall be fitted at a maximum height of 1200mm from the spindle to the bottom of the door.

14. Overhead Closers

Face mounted overhead closers may only be used if they are CERTIFIRE approved for the purpose or have been fire tested successfully in the appropriate condition. Such closers are required to be fitted in all cases where doors are required to be self-closing (usually the case for fire doors). Closers with mechanical hold-open mechanisms are not permitted to be used.

15. Jamb Mounted Closers

Recessed door closers referenced 'Henderson Model 140', 'Perko R1/R2' and 'Perkomatic R85' are permitted to be used with the above mentioned doorset references within the following constraints:

- i) On internal, single-leaf, single-acting, latched door assemblies
- ii) In single occupancy, domestic dwellings including on a door between an integral garage and the living accommodation
- iii) On internal doors ONLY within a single residence (flat) of multiple occupancy domestic dwellings
- iv) Use on individual entrance (flat entrance) doors and in common areas within multiple occupancy dwellings and flats and all industrial and commercial applications are expressly excluded.

⁽¹⁾ **Note: use of 'Henderson Model 140', 'Perko R1/R2' and 'Perkomatic R85' closers are permitted on the basis that, when the door is latched shut, it will not detract from the fire performance of the door assembly in the event of a fire. The closing device is not CERTIFIRE approved and no claims are made or should be implied or inferred on the ability of the device to close and latch the door or in respect of its mechanical performance or durability.**



16. Ancillary Items

16a. 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.

16b. Flushbolts

Not permitted

16c. 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.

16d. Air transfer grilles

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

Where apertures are pre-cut by JELD_WEN UK Limited, 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.

16e. 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.

16f. Door Viewers

Not permitted unless specific evidence exists for the door viewer proposed.



16g. 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 insulated glazing

17. Further Information

Further information regarding the details contained in this data sheet may be obtained from JELD-WEN UK Limited (Tel. 0114 229 3250).

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

Further information regarding BWF labelling requirements can be obtained from the British Woodworking Federation (Tel. 0844 209 2610).

