



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
WCL Impartiality Committee



Paul Duggan
Certification Manager
Warrington Certification Ltd



Issued: 30th November 1998
Revised: 20th November 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, Single-Leaf Latched / Unlatched	2160 (at 926 wide)	980 (at 2040 high)	2.00
Single-Acting, Double-Leaf Latched / Unlatched	2160 (at 926 wide)	980 (at 2040 high)	2.00

Table 2
Size Envelope – doors with reduced intumescent specification
(Lorient Polyproducts Ltd 10 mm by 4 mm – type 617)

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched	2040 (at 975 wide)	975 (at 2040 high)	2.00

- (1) Doorset configurations in Table 1 may incorporate overpanels which include a flush transom as detailed within data sheet.
- (2) Under no circumstances must the maximum height, maximum width or maximum area be exceeded without separate CERTIFIRE approval.

**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).

Table 1

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

Table 2

Size Envelope – doors with reduced intumescent specification
(Lorient Polyproducts Ltd 10 mm by 4 mm – type 617)

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m²)
Single-Acting, Single-Leaf Latched	2040 (at 975 wide)	975 (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) Under no circumstances must the maximum height, maximum width or maximum area be exceeded without separate CERTIFIRE approval.



3. Door Frames

To be any of the following:

Softwood* - Minimum density 440 kg/m³ 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/m³.

Clear engineered laminated softwood may be used in lieu of solid softwood, minimum density 500 kg/m³ 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 500 kg/m³.

Hardwood* - Minimum density 440 kg/m³ 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/m³.

MDF** - Minimum density 720 kg/m³ 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.

*Softwood or hardwood frames for use with the reduced intumescent specification require a minimum density of 510 kg/m³ with a minimum section size of 74 mm by 30 mm thick.

**MDF frames for use with the reduced intumescent specification require a minimum density of 720 kg/m³ with a minimum section size of 74 mm by 25 mm thick.

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.**

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 0.85 m² per leaf

Margins: 100 mm from the perimeter edge, 100 mm between apertures

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

Non-insulating glasses: 6 mm thick Pyroshield 2, Pyrostem, Georgian Wired polished plate, Pyroguard C/W or Pyran S.

Glass	Intumescent System	Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Pyroshield 2 or Pyrostem	Therm-A-Strip at 10 mm by 2 mm Aperture to be lined with 6 mm thick hardwood with a min density of 550 kg/m ³	Min 22 mm high by 25 mm wide (including a 5mm Bolection). Beads can be square topped or include up to a 10° splay. (15 mm edge cover)	MDF Min 720 kg/m ³	Min 38 mm long steel pins or screws at max 150 mm centres, skew fixed at approx. 20°. Min 2No fixings per bead length.	910 (at 660 wide)	735 (at 735 high)	0.60
Pyroshield (GWPP) or Pyroguard C/W	Therm-A-Strip at 10 mm by 2 mm Aperture to be lined with 6 mm thick hardwood with a min density of 550 kg/m ³	Min 23 mm high by 25 mm wide splayed (including a 10 mm high by 7 mm wide Bolection).	Hardwood Min 550 kg/m ³	Min 40 mm long steel pins or screws at max 200 mm centres, skew fixed at approx. 35° to vertical. Max 40 mm in from each corner	1000 (at 850 wide) 1150 (at 150 wide)	850 (at 1000 high) 150 (at 1150 high)	0.85 0.173
Pyroshield (GWPP), Pyroguard C/W or Pyran S	Therm-A-Strip at 10 mm by 2 mm Aperture to be lined with 6 mm thick hardwood with a min density of 550 kg/m ³	Min 22 mm high by 25 mm wide or 15 mm high by 25 mm wide (including a 5mm Bolection). Beads can be square topped or include up to a 10° splay. (15 mm edge cover)	MDF Min 720 kg/m ³	Min 38 mm long steel pins or screws at max 150 mm centres, skew fixed at approx. 20° to vertical Min 3No fixings per bead length.	910 (at 659 wide) 1410 (at 248 wide)	726 (at 826 high) 250 (at 1400 high)	0.60 0.35
Pyroshield (GWPP)	Pyrostrip 300 at 15 mm by 2 mm Aperture to be lined with Pyrostrip 300L at 44 mm by 2 mm and entire extruded tube at bottom of vision panel to be filled with Intuplus – as detailed in Data Sheet	Min 19 mm high by 21 mm wide splayed (including a 4mm high by 6 mm wide Bolection). Glass to be set on a hardwood setting block 6 mm wide by 3 mm thick	Hardwood Min 640 kg/m ³	Min 50 mm long steel screws at max 150 mm centres, skew fixed at approx. 35° to vertical Max 40 mm in from each corner	770 (at 636 wide)	642 (at 763 high)	0.49
Pyroshield (GWPP)	Pyroglaze at 10 mm by 3 mm Aperture to be lined with Pyrostrip 300L at 44 mm by 2 mm and entire extruded tube at bottom of vision panel to be filled with Intuplus – as detailed in Date Sheet	Min 19 mm high by 21 mm wide splayed (including a 4mm high by 6 mm wide Bolection). Glass to be set on a hardwood setting block 6 mm wide by 3 mm thick	Hardwood Min 640 kg/m ³	Min 50 mm long steel screws at max 150 mm centres, skew fixed at approx. 35°. Max 40 mm in from each corner	770 (at 636 wide)	642 (at 763 high)	0.49
Pyroshield (GWPP)	Intuplus at 15 mm by 2 mm Aperture to be lined with Therm-A-Line at 44 mm by 2 mm and entire extruded tube at bottom of vision panel to be filled with plaster – as detailed in Date Sheet	Min 19 mm high by 21 mm wide splayed (including a 4mm high by 6 mm wide Bolection). Glass to be set on a hardwood setting block 6 mm wide by 3 mm thick	Hardwood Min 640 kg/m ³	Min 50 mm long steel screws at max 150 mm centres, skew fixed at approx. 35°. Max 40 mm in from each corner	960 (at 310 wide)	310 (at 960 high)	0.30



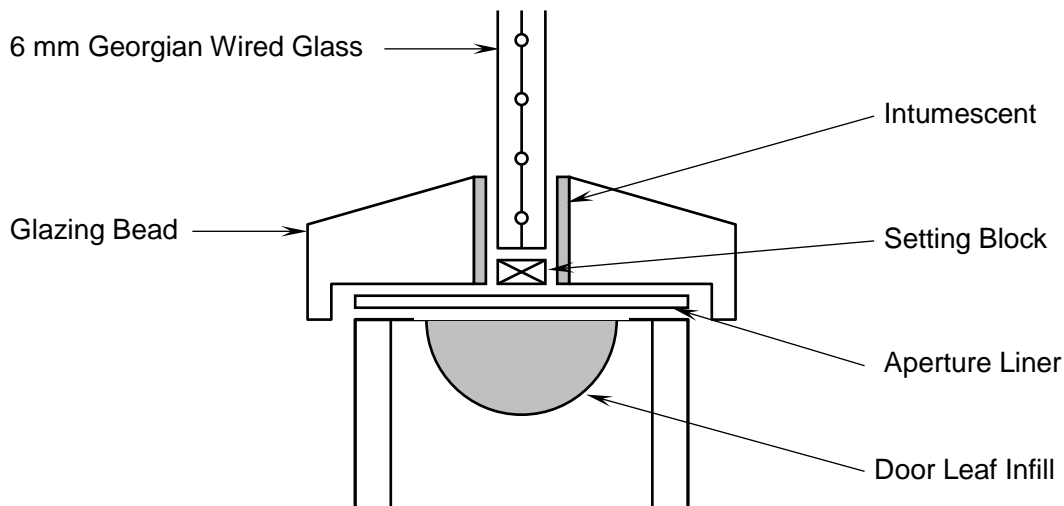


Figure 1. - Glazing Detail

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.

The reduced seal detail below is applicable to doors with leaf sizes as detailed in table 2:

Doorset Configuration	Position	Intumescent Type / Position
Single-Acting, Single-Leaf	Head & Vertical edges	1 No. 10 mm wide by 4 mm thick Lorient Polyproducts Ltd LP1004 (Type 617) fitted at the centre of the leaf edge or within the reveal to the frame or transom rail

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 intumescent mastic or 1 mm thick Interdens intumescent 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. **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

12. **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.

13. **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.



14. **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.

⁽²⁾ **Note:** jamb mounted closers are not suitable for use with the reduced intumescent specification.

15. **Ancillary Items**

15a. **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.

15b. **Flushbolts**

Where flushbolts are fitted the primary leaf must be latched and the flushbolts must be engaged.

Max. Dimension:	155 mm high by 37 mm deep by 19 mm wide
Material:	Steel
Position:	top and bottom on door edge or face (positioned a minimum of 50 mm from the leading edge of the door to the centre of the bolt).
Intumescent protection:	2 mm Interdens sheet to base and sides of bolt body and beneath the keep.

15c. **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.



15d. 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.

15e. Letter Plates

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.

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.

15f. Door Viewers

Not permitted.

15g. 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

16. 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).

