



CERTIFICATE OF APPROVAL

No CF 177

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

**FD60 Flush Timber
 Door Assemblies**

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: 7th October 1997
 Revised: 26th April 2016
 Valid to: 24th November 2019

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CERTIFICATE No CF 177

JELD-WEN UK LIMITED

FD60 FLUSH TIMBER DOOR ASSEMBLIES

1. This approval relates to the use of the above doors in providing fire resistance of up to 60 minutes insulation (if incorporating not more than 20% glass) and 60 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 5588 for FD60 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 BS EN ISO 9001: 2008
 - v) Inspection and surveillance of factory production control
4. The doors comprise cellulosic (flaxboard) cored leaves, with internal timber framing, in various finishes for use with timber frames incorporating intumescent edge seals (code ITT FD60).
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 datasheet 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 single-acting, single and double-leaf, latched and unlatched, ITT assemblies with leaves 54 mm thick. The leaf sizes are shown in Figure 1 and table 1 (All dimensions in mm). Glazing is permitted in accordance with the data sheet/construction specification.
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 60 minutes.
9. Labels to the BWF/CERTIFIRE design referencing JELD-WEN UK LIMITED, CERTIFIRE and CERTIFIRE Ref. No. CF177 and FD60 fire resistance shall be affixed to each door in the prescribed position.

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FD60 FLUSH TIMBER DOOR ASSEMBLIES

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.

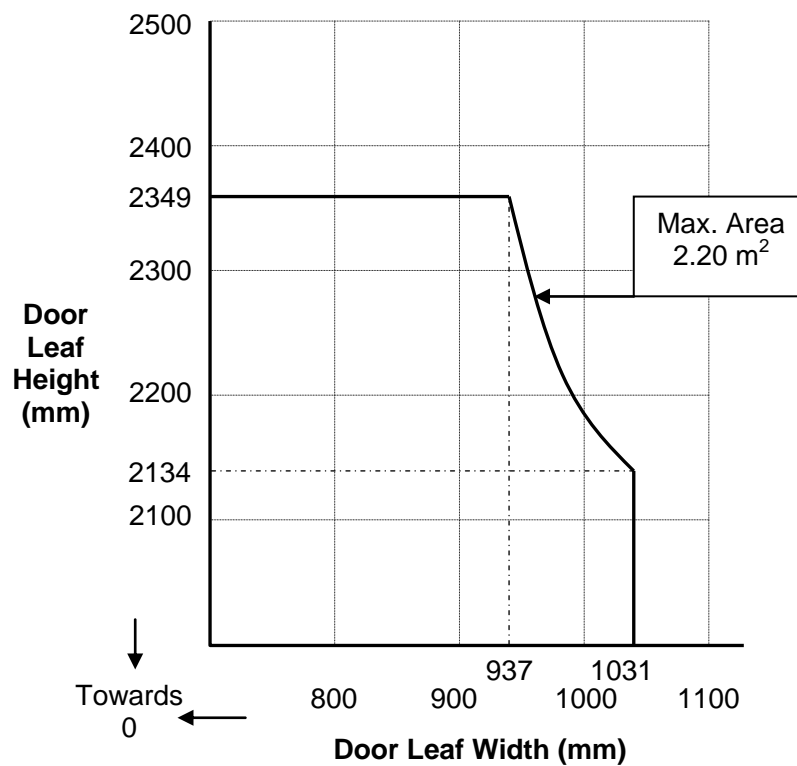


Figure 1. Maximum Permitted Door Leaf Dimensions

Maximum Door Leaf Height	Maximum Door Leaf Width	Maximum Door Leaf Area
2349 mm (at 937 mm wide)	1031 mm (at 2134 mm high)	2.20 m ²

Table 1. Maximum Permitted Door Leaf Dimensions

CF 177 DATA SHEET

1. General

This door leaf has been tested and is certified by CERTIFIRE under reference CF177 as being capable of providing fire resistance of up to 60 minutes insulation (if incorporating not more than 20% glass) and 60 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 5588 for FD60 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 9000 for quality systems 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 UK Limited may be considered to meet the requirements in respect of those items.

2. Door Leaf

This leaf may be used in the following configurations and sizes:

Maximum Door Leaf Height	Maximum Door Leaf Width	Maximum Door Leaf Area
2349 mm (at 937 mm wide)	1031 mm (at 2134 mm high)	2.20 m ²

Table 1. Maximum Permitted Door Leaf Dimensions

Double-leaf doorsets (including plain or rounded meeting stiles only) may incorporate leaves of unequal width providing the smaller leaf is a minimum of 40% of the width of the larger leaf.



3. Door Frame

Material:	Hardwood:	(excluding Beech, Ash, Iroko, Towri & Gerrongang)
	Density:	minimum 590kg/m ³ .
	Section Size:	minimum 32 mm by 85 mm (excluding stop)
	Door stop:	Stop rebated from solid or planted 25 mm by 12 mm thick. The stop may be machined from solid timber, glued and pinned or pinned only using 40 mm long steel pins.
	Joints:	Mortice and tenon or half lapped joints using two steel fixings
	Door to Frame Gaps:	Not to exceed 3 mm except at threshold where up to 10 mm is permitted.

4. Supporting Construction

The door assemblies are approved to be installed in a brick, block or masonry wall or an appropriate timber stud/plasterboard lined partition, capable of providing at least 60 minutes fire resistance.

5. Installation

The opening may be lined with hardwood which shall be continuous and of minimum width 85 mm. Any voids between lining and wall to be filled as indicated in Table 3 of BS 8214:1990 with 2 mm by 20 mm of intumescent material or mineral wool or if less than 10 mm wide, with 2 mm by 10 mm of intumescent material or mineral wool or intumescent paste or mastic. 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. 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.

6. Glazed Apertures

Any aperture to be factory prepared. **No site cutting of apertures permitted.**

6.1	Beading:	Hardwood, min. density 630 kg/m ³ . Min. 31 mm by 31 mm with 15 mm cover to glass edge bevelled 10-20° with maximum 12 mm bolection return, Or 19 mm by 25 mm with 45° chamfer and 10 mm bolection return.
	Glazing bead fixings:	58 mm (minimum) long by No. 8s steel screws or 50mm steel pins (Therm-a-glaze 60 only) at a maximum of 150 mm centres (maximum). At least four fixings per bead. Fixings skewed at 20° to the plane of the leaf.
	Intumescent material:	Between glass and beads see table below.
6.2	Glass:	6 mm Pyroshield Safety Glass, Pyran S or other CERTIFIRE approved glass subject to conditions contained in relevant approval.



6.3 Alternative System: Any CERTIFIRE approved glass or glazing system subject to conditions contained in relevant approval.

6.4 Glazing: Apertures may or may not be factory lined with softwood hardwood. The presence or otherwise of a timber lining will determine the type of glazing system which may be used as follows:

Shape	Intumescent System	Timber Lining*	Maximum Pane Area (m ²)	Maximum Pane Area Per Leaf (m ²)
Rectangular/Square	Therm-A Glaze 60	Yes	0.4	0.4
Rectangular/Square	Therm-A Glaze 60	No	0.2	0.4
Rectangular/Square	Fireglaze 60	No	0.4	0.4
Triangle or Polygon	Therm-A Glaze 60	No	0.2	0.4
Circle or curved	Fireglaze 60	No	0.4	0.4
Rectangular	Lorient System 90+	No	0.4	0.4

* If glazing beads are retained via pin fixings (Therm-a-glaze 60 only) a timber liner must be used

7. Intumescent Seals

Reference: Therm-A-Seal
 Manufacturer: Intumescent Seals Limited
 Dimensions: 15 mm by 4 mm
 Position: 2 No. seals, in the head and jambs of the door frame, 8 mm and 33 mm from the opening face of the frame and 2 No. seals in meeting edge (either equispaced in one leaf or single, unopposed seals in each leaf). One seal completely interrupted at the ironmongery positions the other may be reduced by a maximum of 2 mm in width (this may be repositioned to ensure it is not reduced). For doorsets installed within a frame of density 530 - 590 kg/m³, an additional 15 mm by 4 mm seal is to be included at mid-width of the door leaf edges.

Alternative Seals:

For single-leaf doors only, Lorient 617 seals may be used (following the size and positioning specification given above)



8. Hinges

Hinges shall comply with BS EN 1935.

Number: 3 No.

Type: Fixed pin, washered butt, ball bearing or journal supported (ball bearings to be steel)

Material: Steel or Stainless Steel

Dimensions:

Blade width: 30-38 mm.

Thickness: 3.5 mm (maximum)

Height 102 mm (maximum)

Positions: 150 mm from head, central and 150 mm from base of leaf (± 50 mm) measured to centre line of hinge

Fixings: Steel screws, minimum No. 8s (3.8 mm diameter) by 32 mm long.

Intumescent: The hinge blades shall be bedded onto 1 mm thick Interdens or graphite intumescent.

Where hinges with a blade width greater than 30 mm wide are used, a continuous length of nominally 10 mm wide by 4 mm thick Therm-A-Seal intumescent shall bypass the hinge.

9. Latches

Latches shall conform to Category B of BS 5872, BS 3621 or EN 12209

Mortice type, automatic (sprung) latch bolt.

Latch bolt material: steel

Case dimensions: 120 mm high by 90 mm wide by 19 mm thick maximum

Forend plate: 160 mm high by 25 mm wide maximum

Strike: 160 mm high by 25 mm wide maximum

No restriction on type and material of handles.

To be fitted at 1000 mm (± 200 mm) from the base of the leaf.

10. Overhead Closers

A self closing device is essential for the closing of unlatched doors and they shall be a CERTIFIRE approved product including all accessories.

Closers are not essential for the fire performance of doors which are fitted with a latch. A self-closing device may however be required to satisfy fire regulations and if fitted shall be a CERTIFIRE approved product.

Note closers with mechanical hold-open mechanisms are not permitted to be used.

11. Further Information

Further information regarding the details contained in this data sheet may be obtained from JELD-WEN U.K. Limited. (Tel. 01302 394000).

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

Further information regarding BWF labeling requirements can be obtained from the British Woodworking Federation (Tel 0870 458 6939).

