CERTIFICATE OF APPROVAL
No CF 394

This is to certify that, in accordance with CERTIFIRE's Rules for Certification 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	TECHNICAL SCHEDULE
JELD-WEN UK Limited Dieformed FD60 Timber Door Assemblies	**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: 21st February 2005
Revised: 20th November 2006
Valid to: 20th February 2010

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This certificate is the property of Warrington Certification Limited
Registered address: Holmesfield Road, Warrington, UK, WA1 2DS Reg'd No. 2250182

CERTIFICATE No CF 394
JELD-WEN UK LIMITED

JELD-WEN UK LIMITED DIEFORMED FD60 TIMBER DOOR ASSEMBLIES

1. This approval relates to the use of the above doorsets in providing fire resistance of 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 D 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: 2000.
   v) Inspection and surveillance of factory production control

4. The doors comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (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 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, ITT assemblies, at leaf dimensions up to those given in Table 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 60 minutes.

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9. Labels to the BWF/CERTIFIRE design referencing JELD-WEN UK Limited, CERTIFIRE and CERTIFIRE Ref. No. CF394 and FD60 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	1981	840	1.66

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JELD-WEN UK LIMITED DIEFORMED FD60 TIMBER DOOR ASSEMBLIES
CF394 DATA SHEET

1. General

This door leaf has been tested and is certified by CERTIFIRE as being capable of providing fire resistance of 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 9001: 2000 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 be used in a latched, single-acting, single-leaf configuration. The following table gives a maximum door leaf height (mm) at a standard width and a maximum width at a standard height. Intermediate maximum dimensions may be calculated by linear interpolation between the absolute maximum values as shown in Table 1 (reproduced below) appended to Certificate of Approval.

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m^2)
Single-Acting, Single-Leaf Latched	1981	840	1.66

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

13. Door Frames

Hardwood - Minimum density 650 kg/m^3 and basic section sizes 80 mm by 32 mm including a pinned, screwed or rebated from solid stop of minimum dimensions 12 mm deep minimum density 650 kg/m^3.
* Ash and Iroko species may not be used

4. Door Gaps

Gaps between door and frame shall be 3mm ± 1mm. Leaf to cill gaps shall not exceed 8 mm.

5. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry or timber/steel stud of minimum thickness 70mm, providing at least 60 minutes fire resistance.

6. Installation:

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width, 80 mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon frame fixings screwed and plugged at maximum 600mm centres and penetrating the wall to at least 50 mm. Architrave is optional with no restrictions on material, size or fixing.

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 BWF-CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

Fitting to be carried out in accordance with BS 8214: 1990, Table 3.

7. Glazed Openings

The leaves may not incorporate glazing

8. Intumescent Seals

Intumescent Seals are required to be fitted to these doors.

The specification of the seals will be:

Position	Intumescent Specification
Head & Vertical Edges	2 No. Lorient Polyproducts Ltd 'LP1004' ***OR*** 2 No. Mann McGowan Ltd '100P' of dimensions 10 mm wide by 4 mm thick to be fitted to the door leaf edge or the reveal to the frame.

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).

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

9. Hinges

Hinges shall be CE marked for use on timber fire doors, in addition to the specifications below:

Number:	3 No. per leaf (minimum)
Type:	Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel.
Position:	Centrally in the leaf height, 150 mm from the head of the leaf and 225-250 mm from the base of the door leaf.
Dimensions:	
i) Height:	100 mm
ii) Blade width:	28 mm
iii) Thickness:	1.5 mm
iv) Knuckle dia.:	13 mm
Fixings:	Steel screws, minimum 4 No. and no smaller than No. 8 by 32 mm long.

Any other CERTIFIRE approved hinges subject to the conditions contained within the relevant certificate.

10. Latches

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

Type	-	Tubular Mortice automatic (sprung) latch bolt
Case dims	-	Maximum 63 mm long by 25 mm diameter
Strike dims	-	60 mm long by 25 mm wide maximum
Forend dims	-	60 mm long by 25 mm wide maximum
Latch bolt	-	Steel or material with a melting point greater than 950^0C
Handles	-	No restriction on type or material
Position	-	Shall be fitted at a maximum height of 1100mm from the spindle to the bottom of the door.

11. Overhead Closers

All unlatched doorsets shall be fitted with a door closer covered by a CERTIFIRE certificate. Closers are not essential for fire performance if the doorset incorporates a latch and the leaf is in the closed and fully latched position. A self-closing device is however required to be fitted 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.**

12. Further Information

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

Further information regarding the CERTIFIRE certification and other 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: 0870 458 6939).