



CERTIFICATE OF APPROVAL

No CF 820

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

ZMR LTD TRADING AS MILLENNIUM DOOR SYSTEMS

Unit 10, Spartan Industrial Centre, Brickhouse Lane, Great Bridge,
West Midlands, B70 0DH

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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 Strebord 54
Timber Doorsets

TECHNICAL SCHEDULE

TS10 Fire Resisting Door
Assemblies with Non
Metallic Leaves

Signed and sealed for and on behalf of CERTIFIRE

A handwritten signature in black ink, appearing to read "Sir Ken Knight".

Sir Ken Knight
Chairman - Management Council
Page 1 of 3

Issued: 21 December 2010
Valid to: 20 December 2015





CERTIFICATE No CF 820

ZMR LTD TRADING AS MILLENNIUM DOOR SYSTEMS

ZMR Ltd trading as Millennium Door Systems FD60 Strebord 54 Timber Doorsets

1. This approval relates to the use of the above doorsets in providing fire resistance of 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 5588 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 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 and unlatched, single-acting, single and double-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.

A handwritten signature in blue ink, appearing to be "K. J. M.", located below the "Signed" text.



CERTIFICATE No CF 820
ZMR LTD TRADING AS MILLENNIUM DOOR
SYSTEMS

ZMR Ltd trading as Millennium Door Systems FD60 Strebord 54 Timber Doorsets

9. Labels to the BWF/CERTIFIRE design referencing ZMR Ltd trading as Millennium Door Systems, CERTIFIRE and CERTIFIRE Ref. No. CF 820 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 / Unlatched	2583 (at 932 wide)	1127 (at 2135 high)	2.40
Single-Acting, Double-Leaf Latched / Unlatched	2583 (at 932 wide)	1127 (at 2135 high)	2.40

A handwritten signature in blue ink, appearing to be "K. J. ...".

CONSTRUCTIONAL SPECIFICATION FOR CERTIFIRE APPROVED FD60 STREBORD 54 TIMBER DOOR ASSEMBLIES

Introduction

This document specifies constructional and other details for FD60 doors manufactured by ZMR Ltd trading as Millennium Door Systems and certified by CERTIFIRE under certificate No. CF820. Only doors complying with the details of this document may be marked or marketed as CERTIFIRE approved. Any change to, or deviation from, this specification requires the agreement of CERTIFIRE.

General

CERTIFIRE 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 approval that an agreed data sheet accompanies the product and is complied with in its entirety. Failure to do so will render the approval invalid and may jeopardise the fire performance of the product.

Scope of Approval

As defined in Certificate of Approval No. CF820.

1. Leaf and Overpanel Construction

1.1 Door leaf core

Material	-	Strebord 54 fine surface wood particleboard
Thickness	-	54 mm (min)
Density	-	630 kg/m ³ (min)
Facing	-	Not required
Stiles & Rails	-	None
Lippings	-	Hardwood 10 mm thick, 640 kg/m ³ density minimum, to vertical edges.
Finishes	-	Any decorative laminate or timber veneer up to 1.5 mm thickness additional to the faces (but not the edges) of the above substrate
	-	Any paint finishes

1.2 Adhesives - Lippings - Cascamite/Urea Formaldehyde, PVA or PU

1.3 Moisture content - 10% (±2%)

2. Leaf Dimensions

2.1 Leaf thickness - 54 mm ± 1 mm (excluding finish)

2.2 Leaf height and width - As specified in Certificate of Approval



3. Door Frame

To be as specified in Data Sheet

4. Glazed Openings

To be as specified in Data Sheet

5. Overpanels

Overpanels may be included up to a maximum height of 613 mm and shall include 9 mm thick hardwood lippings (minimum) and opposing lipping to the leaf head or a rebated 20 mm thick hardwood lipping with 22 mm wide by 13 mm deep rebate at the bottom edge, with a corresponding 20 mm thick rebated hardwood lipping in the top edge of the leaf. Overpanels shall be lipped on all edges.

Transomed overpanels may be included up to 1000 mm high, with a minimum 40 mm wide solid timber transom rail (as per the frame specification).

6. Hardware/Intumescent Seals

To be CERTIFIRE approved or otherwise as specified in Data Sheet

7. Labels

Labels of the BWF design referencing ZMR Ltd trading as Millennium Door Systems, CERTIFIRE CF820 and FD60 fire resistance, to be applied to each approved door leaf in the prescribed position.



ZMR LTD TRADING AS MILLENNIUM DOOR SYSTEMS FD60 TIMBER DOOR ASSEMBLIES

CF820 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: 2008 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 the prime door manufacturer may be considered to meet the requirements in respect of those items.

2. Door Leaf

This leaf may be used in a latched or unlatched, single-acting, single and double-leaf configuration. The following table gives a maximum door leaf height (mm) and width (mm):

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2583 (at 932 wide)	1127 (at 2135 high)	2.40
Single-Acting, Double-Leaf Latched / Unlatched	2583 (at 932 wide)	1127 (at 2135 high)	2.40

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

3. Door Frames

Hardwood* - Minimum density 640 kg/m³ and basic section sizes 70 mm by 32 mm with a pinned, screwed or rebated from solid stop of minimum dimensions 12 mm deep minimum density 640 kg/m³.
* Ash shall not be used



4. Overpanels

Overpanels may be included up to a maximum height of 613 mm and shall include 9 mm thick hardwood lippings (minimum) and opposing lipping to the leaf head or a rebated 20 mm thick hardwood lipping with 22 mm wide by 13 mm deep rebate at the bottom edge, with a corresponding 20 mm thick rebated hardwood lipping in the top edge of the leaf. Overpanels shall be lipped on all edges.

Transomed overpanels may be included up to 1000 mm high, with a minimum 40 mm wide solid timber transom rail (as per the frame specification).

5. Door Gaps

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

6. Supporting Construction

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

7. Installation:

The opening may be lined with hardwood which shall be continuous and of minimum width, 85 mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel 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:

Vertical edges (each)	3 mm
Top	3 mm
Bottom	unlimited

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.

8. Glazed Openings

The leaf/leaves may incorporate any CERTIFIRE approved glazing system subject to the conditions contained within the relevant certificate.

The maximum aperture size and maximum total aperture area of glazing per leaf is 1200 mm high and 300 mm wide (0.36 m²).



9. Intumescent Seals

Intumescent Seals are required to be fitted to these doors.

The specification of the seals will be:

Doorset Configuration	Frame	Position	Intumescent Specification
Single-Acting, Single-Leaf (Latched/unlatched) up to 2135 mm high by 935 mm wide	Timber	Head & Vertical Edges	Two Lorient Polyproducts Ltd LP1504 of dimensions 15 mm wide by 4 mm thick to be fitted to the door leaf edge or the reveal to the frame, separated by approximately 10 mm
Single-Acting, Double-Leaf (Latched/unlatched) 2135 mm high by 935 mm wide	Timber	Head & Vertical Edges	Two Lorient Polyproducts Ltd LP1504 of dimensions 15 mm wide by 4 mm thick to be fitted to the door leaf edge or the reveal to the frame separated by approximately 10 mm and into the meeting edge of one leaf, separated by approximately 10 mm
Overpanel (with leaves up to 2135 mm high by 935 mm wide)	Timber	Head & Vertical Edges	As above
		Leaf to Over panel	One Lorient Polyproducts Ltd LP2504 of dimensions 25 mm wide by 4 mm thick to be fitted to the door leaf top edge, centrally within the rebate and one Lorient Polyproducts Ltd LP1504 of dimensions 15 mm wide by 4 mm thick to be fitted to the overpanel bottom edge, centrally within the rebate
Single-Acting, Single-Leaf (Latched/unlatched) up to 2583 mm high or 1127 mm wide	Timber	Head & Vertical Edges	Two Pyroplex R8700 of dimensions 15 mm wide by 4 mm thick to be fitted to the door leaf edge or the reveal to the frame, separated by approximately 10 mm
Single-Acting, Double-Leaf (Latched/unlatched) 2583 mm high or 1127 mm wide	Timber	Head & Vertical Edges	Two Pyroplex R8700 of dimensions 15 mm wide by 4 mm thick to be fitted to the door leaf edge or the reveal to the frame separated by approximately 10 mm and into the meeting edge of one leaf, separated by approximately 10 mm

Seals may be interrupted at hinge and latch positions.

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



10. 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 may however be 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.**

11. 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:	98 mm
ii) Blade width:	34 mm
iii) Thickness:	3 mm
iv) Knuckle dia.:	14 mm
Fixings:	Steel screws, minimum 3 No. (per blade) and no smaller than No. 5 by 30 mm long.
Protection	Not required.

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

12. Latches

Where fitted, latches shall be CE marked, in addition to the specification below:

Type	-	Tubular Mortice automatic (sprung) latch bolt
Case dims	-	Maximum 23 mm diameter by 63 mm long
Forend dims	-	57 mm long by 26 mm wide maximum
Latch bolt	-	Steel or material with a melting point greater than 950°C
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.
Protection	-	Not required.

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

13. Further Information

Further information regarding the details contained in this data sheet may be obtained from ZMR Ltd trading as Millennium Door Systems (Tel: 0121 521 3550).

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).

