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## CERTIFICATE OF APPROVAL

### No CF 820

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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

Tel: 0121 521 3550 Fax: 0121 521 357 [www.mbp.co.uk](http://www.mbp.co.uk)

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

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**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 Warringtonfire Testing and Certification Limited

Paul Duggan  
Certification Manager

Issued: 21<sup>st</sup> December 2010  
Revised: 4<sup>th</sup> February 2020  
Valid to: 29<sup>th</sup> August 2021



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## CERTIFICATE No CF 820

# ZMR LTD TRADING AS MILLENNIUM DOOR SYSTEMS

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

This approval relates to the use of the above doors in providing fire resistance of 60 minutes Insulation (if incorporating not more than 20% of uninsulating 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 9999 for FD60 door assemblies when used in accordance with the provisions therein.

1. This certification is designed specifically to demonstrate compliance of the product or system with Approved Document B (England and Wales); The Technical Handbooks (Scotland); Technical Booklet E (N. Ireland). If compliance is required with other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
2. The doors are approved on the basis of:
  - i) Initial type testing
  - ii) A design appraisal against TS10
  - iii) Inspection and surveillance of factory production control
  - iv) Certification under a CERTIFIRE approved Quality Management System
  - v) Audit testing in accordance with TS10
3. This approval relates to the use of the above doors in providing fire resistance of 60 minutes insulation 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 9999 for FD60 door assemblies when used in accordance with the provisions therein.
4. The door blanks comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals.
5. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully 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 Tables 1, 2 and 3.
7. Glazing shall only be undertaken by the door manufacturer, or a CERTIFIRE approved Licensed Door Processor, and shall be in accordance with the Data information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.
8. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the data sheet.

Page 2 of 4 Signed  
E/144

Issued: 21<sup>st</sup> December 2010  
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9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF820 and FD60 classifications resistance shall be affixed to each door in the prescribed position.
10. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.
11. The approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's 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. Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Single-Leaf, Latched and Single-Acting, Double-Leaf, Latched and Unlatched  
with Intumescent Seals Ltd, Therm-A-seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched 2No. 15 x 4 mm intumescents	3242 (at 1035 wide)	1177 (at 2850 high)	3.35
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2189 (at 936 wide)	960 (at 2135 high)	2.05

**Table 2. Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Double-Leaf, Latched and Unlatched  
with Lorient type 617 or 100P Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2249 (at 935 wide)	985 (at 2135 high)	2.10

## CERTIFICATE No CF 820 ZMR LTD TRADING AS MILLENNIUM DOOR SYSTEMS

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

**Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Single and Double-Leaf, Latched and Unlatched  
with Pyroplex FO8700 Graphite Rigid box seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents	2517 (at 1234 wide)	1265 (at 2454 high)	3.11
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2146 (at 928 wide)	970 (at 2054 high)	1.99
Single-Acting, Double-Leaf Latched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	3257 (at 936 wide)	1106 (at 2757 high)	3.05

Note: Under no circumstances must the maximum height, maximum width or maximum area be exceeded without separate CERTIFIRE approval.

## CF 820 DATA SHEET

### 1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 60 minutes integrity and 60 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 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 or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with a CERTIFIRE approved Quality management System 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 approval is applicable to single-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed in Tables 1, 2 and 3 below.

**Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Single-Leaf, Latched and Single-Acting, Double-Leaf, Latched and Unlatched  
with Intumescent Seals Ltd, Therm-A-seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched 2No. 15 x 4 mm intumescents	3242 (at 1035 wide)	1177 (at 2850 high)	3.35
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2189 (at 936 wide)	960 (at 2135 high)	2.05

**Table 2. Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Double-Leaf, Latched and Unlatched  
with Lorient type 617 or 100P Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2249 (at 935 wide)	985 (at 2135 high)	2.10

**Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance**Single-Acting, Single and Double-Leaf, Latched and Unlatched  
with Pyroplex FO8700 Graphite Rigid box seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents	2517 (at 1234 wide)	1265 (at 2454 high)	3.11
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2146 (at 928 wide)	970 (at 2054 high)	1.99
Single-Acting, Double-Leaf Latched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	3257 (at 936 wide)	1106 (at 2757 high)	3.05

Note: 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: -

Hardwood:                      Density:        640 kg/m<sup>3</sup> min (excluding Ash, Beech and Iroko)  
   Dimensions:    70 mm by 32 mm min.  
   Door Stop:    12 mm deep pinned, screwed or rebated from solid

MDF\*:                            Density:        750 kg/m<sup>3</sup> min  
   Dimensions:    70 mm by 30 mm min.  
   Door Stop:    12 mm deep pinned, screwed or rebated from solid

\*MDF frames are restricted to single-action, single-leaf door assemblies only, and shall incorporate Pyroplex FO8700 Graphite Rigid box intumescent seals.

Jointing:                        Butt joints, Mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws.

Door to frame gaps:        Not to exceed 4.0 mm except at the threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles.

### 4. Overpanels

Flush 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 with 32 mm wide by 13 mm deep rebate to the top edge of the leaf. Overpanels shall be lipped on all edges.

Overpanels to be fixed using steel screws at a maximum of 400 mm centres and a maximum 100 mm from each corner, through the centre of the panel to a depth of at least 30mm.

Door to overpanel meeting edges shall incorporate a 15 mm by 4 mm Lorient intumescent seal in overpanel rebate and a 25 mm by 4 mm Lorient intumescent seal in the door rebate, or the same seal specification positioned centrally within the leaf / overpanel thickness where a square (non-rebated) door to overpanel meeting edge is adopted.

Where rebated door to overpanel meeting edges are not incorporated on double-leaf assemblies, timber astragals (min 640 kg/m<sup>3</sup>) are required at the junction between the bottom of the overpanel and the top edge of the door.

Transomed overpanels may be included up to 1000 mm high, with a minimum 40 mm wide transom rail

Transomed sidepanels may be included up to 1000 mm wide, with a minimum 40 mm wide mullion rail.

## **5. Glazed Fanlights and sidelights**

Any CERTIFIRE approved glazing systems may be used providing the specification and installation details given in the appropriate certification documents are adhered to.

## **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. Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies as recommended by the partition manufacturer

## **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 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 assemblies shall be installed as stated in BS 8214. Suitable CERTIFIRE approved lineal gap sealing systems may also be utilised to protect the frame / supporting construction gap, subject to the conditions contained within the relevant certificate.

The use of third party accredited installers provides a means of ensuring that installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

Door leaves may be trimmed to fit the frame by the following maximum amounts:

- Stiles (each) 3 mm
- Top 3 mm
- Bottom No limit providing bottom lippings are not fitted, 3 mm if bottom lipping is fitted.

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

The labelled edge may be subjected to minor 'shooting-in', providing the label is not damaged or removed in the process, and the amount of material removed does not exceed that stated previously.

## 8. Glazed Apertures

All apertures to be factory prepared by a CERTIFIRE approved Licensed Door Processor. No site cutting of apertures permitted as this will invalidate the certification.

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 1.12 m<sup>2</sup> per leaf

Margins: 120 mm from the perimeter edge, 120 mm between apertures

Maximum Permitted Aperture Dimension		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
2201 (at 510 wide)	604 (at 1860 high)	1.21
881 (at 675 wide)	743 (at 801 high)	0.59

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

The leaf / leaves may incorporate any CERTIFIRE approved glazing system subject to the conditions contained within the relevant certificate (e.g. maximum size associated with glass or system, edge cover, aperture lining requirements etc).

## 9. Intumescent Seals

CERTIFIRE certificated intumescent seals are required to be fitted to these doors as below.

**For door assemblies to BS 476: Part 22 – classified as FD60**

**Intumescent Seals Ltd, Therm-A-Seal intumescent – See Table 1 for size restrictions**

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Single-Leaf Latched	Head	2No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame.
	Vertical Edges	2No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame.
Single-Acting, Double-Leaf Latched / Unlatched	Head	2No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame.
	Hanging Edges	2No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame.
	Meeting Edges	2No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.

**Lorient Type 617 or 100P intumescent – See Table 2 for size restrictions**

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Double-Leaf Latched / Unlatched	Head	2No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 7 mm from front edge of frame.
	Hanging Edges	2No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 7 mm from front edge of frame.
	Meeting Edges	2No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.



**Pyroplex FO8700 Graphite Rigid Box seal intumescents – See Table 3 for size restrictions**

<b>Doorset Configuration</b>	<b>Position</b>	<b>Intumescent Specification</b>
Single-Acting, Single-Leaf Latched / Unlatched <b>MDF FRAMES ONLY</b>	Head	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Vertical Edges	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
Single-Acting, Double-Leaf Latched / Unlatched	Head	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Hanging Edges	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Meeting Edges	2No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.
Single-Acting, Double-Leaf Latched	Head	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Top Edge	1No. 15 mm wide by 4 mm thick - centrally
	Hanging Edge	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Meeting Edges	2No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.

Seals may be interrupted at the hinge and latch positions. Seals may be fitted in the edge of the door or frame reveal. Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescents seal. All seals to be CERTIFIRE approved.

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

## **10. Overhead Closers**

All doors are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doors kept locked shut such as service doors. Note: closers with mechanical hold-open mechanisms are not permitted to be used. Building Regulations may identify locations within domestic locations where self-closing devices are not mandatory.

## **11. Hinges**

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire door assemblies.

Number:	Minimum 3No.
Type:	Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel.
Position*:	Maximum 200 mm from the top of door to top hinge. Maximum 250 mm from bottom of door to bottom hinge. Middle hinge to be positioned centrally within the leaf height.
Dimensions:	Blade height: Minimum 98 mm, maximum 103 mm Blade width: Minimum 31 mm, Maximum 38 mm Thickness: 3 mm (+/- 1) Knuckle dia.: Minimum 12.5 mm, maximum 14.5 mm
Fixings:	Minimum 3No. steel screws, minimum No. 5 by 30 mm long.
Intumescent protection**:	Minimum 1 mm Interdens sheet intumescent.

\* The datum in all cases is the centreline of the hinge.

\*\* This specification overrides any requirement for additional intumescent identified in the hinge manufacturer's certification providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative hinges exceed the specification given above the intumescent protection as identified in the hinge manufacturers CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved hinges may be used, subject to the conditions contained within the relevant certificate.

## 12. Locks and Latches

Where fitted, locks and latches shall be CE marked for use on 60 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt, cylinder rim night latches and knobsets.

Max. case dimension:	166 mm high x 98 mm deep x 20 mm wide
Max. forend dimension:	235 mm high x 25 mm wide
Max. keep dimension:	185 mm high x 25 mm wide (excluding latch plate)
Latchbolt material:	Steel or brass
Position:	Max. 1100mm from the bottom of door to centreline of lockcase.
Intumescent protection*:	Tubular latches: 1 mm Interdens to body, forend and keep.
	Lock / latch <b>not</b> exceeding: 1 mm Interdens to body, forend and keep.
	<ul style="list-style-type: none"><li>• 155 x 22 mm forend</li><li>• 125 x 24 mm keep (exc. latch plate)</li></ul>
	Lock / latch exceeding: 2 mm Interdens to body, forend and keep
	<ul style="list-style-type: none"><li>• 155 x 22 mm forend</li><li>• 125 x 24 mm keep (exc. latch plate)</li></ul>

\* This specification overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock / latch specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative lock / latch exceed the specification given above the intumescent protection as identified in the lock / latch manufacturer's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved lock / latch may be fitted, subject to the conditions contained within the relevant certificate.

Recessing for locks should result in a tight fit, allowing for any intumescent protection where required.

No restriction on type and material of handle.

## 13. Ancillary items

### 13a Flushbolts

Max. Dimension:	200 mm high x 25 mm deep x 19 mm wide
Material:	Steel.
Position:	Top and bottom on door edge.
Intumescent protection:	1 mm Interdens to base and sides of bolt body and under the keep.

### **13b Protection plates and signage**

Surface mounted plastic, steel, aluminium or brass plates are acceptable on the basis that:

- < 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.

### **13c 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.

### **13d Air transfer grilles**

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

Where apertures are pre-cut by 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 FD60 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.

### **13e 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 FD60 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.

### **13f Door Viewers**

Not permitted.

### **13g 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

## **14. 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: 0207 637 2646 / 0844 209 2610).