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## CERTIFICATE OF APPROVAL

### No CF 5133

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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

## CB SOLUTIONS

Halifax Approach, New Cut, Eastfield Park,  
Lissett, East Yorkshire, YO25 8PT  
Tel: 01262 469 130

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**  
**CB SOLUTIONS FD60**  
**Flamebreak Timber Door**  
**Assemblies**

**TECHNICAL SCHEDULE**  
**TS10 Fire Resisting Door**  
**Assemblies with Non Metallic**  
**Leaves**

Signed and sealed for and on behalf of Exova (UK) Limited trading as  
Warrington Certification



Paul Duggan  
Certification Manager



Issued:  
Reissued:  
Valid to:

6<sup>th</sup> February 2013  
20<sup>th</sup> November 2018  
19<sup>th</sup> November 2023

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## CERTIFICATE No CF 5133

### CB SOLUTIONS

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#### CB SOLUTIONS FD60 Flamebreak Timber Door Assemblies

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/doorsets when used in accordance with the provisions therein.

1. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
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/doorsets when used in accordance with the provisions therein.
4. The doors comprise tri-laminate hardwood cored, timber framed leaves in various finishes for use with timber frames, with intumescent edge seals.
5. This approval is applicable to both complete door assemblies/doorsets 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 single-action, single and double-leaf, latched and unlatched, glazed and unglazed ITT assemblies, with or without rebated meeting stiles at leaf dimensions up to those detailed within Tables 1 and 2 below.

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### CB SOLUTIONS FD60 Flamebreak Timber Door Assemblies

**Table 1. Flamebreak 660 Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Single and Double-Leaf, Latched and Unlatched

Configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
<b>Flamebreak 660</b> Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents	2388 (at 1179 wide)	1183 (at 2380 high)	2.82
<b>Flamebreak 660</b> Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents (frame and one meeting edge)	2155 (at 935 wide)	935 (at 2155 high)	2.02
<b>Flamebreak 660</b> Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents to jambs and one meeting edge and 1No. 30 x 4 mm to head	2236 (at 936 wide)	971 (at 2156 high)	2.09

**Table 2. Flamebreak FF660 Maximum Permitted Door Leaf Dimensions for Fire Performance**

Single-Acting, Single-Leaf, Latched and Unlatched

Configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
<b>Flamebreak FF660</b> Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents	2096 (at 926 wide)	933 (at 2080 high)	1.94

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

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### CB SOLUTIONS

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#### **CB SOLUTIONS FD60 Flamebreak Timber Door Assemblies**

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 as specified in the Data Sheet.
9. The door assembly/doorset shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.
10. This 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 when appropriate.

## CF 5133 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 FD 60 when used in accordance with the provisions therein.

In recognition of this, the leaf carries a prefixed label on the top 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 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 CB Solutions may be considered to meet the requirements in respect of those items.

### 2. Door Leaf Dimensions

This approval is applicable to single-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Tables 1 and 2 below.

**Table 1. Flamebreak 660 Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Single and Double-Leaf, Latched and Unlatched

Configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
<b>Flamebreak 660</b> Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents	2388 (at 1179 wide)	1183 (at 2380 high)	2.82
<b>Flamebreak 660</b> Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents to jambs and one meeting edge and 1No. 30 x 4 mm to head	2155 (at 935 wide)	935 (at 2155 high)	2.02
<b>Flamebreak 660</b> Single-Acting, Double-Leaf Latched / Unlatched Square meeting edges 2No. Pyroplex 8700 15 x 4 mm intumescents (frame and one meeting edge)	2236 (at 936 wide)	971 (at 2156 high)	2.09

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



**Table 2. Flamebreak FF660 Maximum Permitted Door Leaf Dimensions for Fire Performance**  
Single-Acting, Single-Leaf, Latched and Unlatched

Configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
<b>Flamebreak FF660</b> Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 15 x 4 mm intumescents	2096 (at 926 wide)	933 (at 2080 high)	1.94

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

### 3. Door Frame

To be any of the following:-

- |                            |  |
|----------------------------|--|
| Hardwood (excluding Beech) | i) Density: 640 kg/m <sup>3</sup> min.   |
|                            | ii) Dimensions: 70 mm by 32 mm min.  |
|                            | iii) Door Stop: 12 mm deep pinned, screwed or rebated from solid   |
| 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 4.0mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles*                    |

### 4. Overpanels

Framed Overpanels incorporating a transom rail 32 mm thick (minimum) hardwood (excluding Beech), may be included up to a maximum size of 1000 mm high

Framed Side panels including a mullion 32 mm thick (minimum) hardwood (excluding Beech) may be included up to maximum width of 1000 mm

Framed overpanels/side panels to be manufactured as per any of the door leaf specifications, but may omit all stiles and rails. Panels should be bedded against beads or the stop of the rebate and be screw fixed at minimum 400 mm centres.

Entire framed overpanel/side panel may be glazed in accordance with point 5 below

### 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 85 mm, 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/doorsets as recommended by the partition manufacturer.

## 7. Installation

The opening may be lined with hardwood which shall be continuous and of minimum width, 85mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon fixings at maximum 600 mm centres penetrating the wall to at least 50 mm. Architraves are optional with no restrictions on material, size or fixing.

Door assemblies/doorsets shall be installed as stated in BS 8214, Table 3. 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: 3mm

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 CB Solutions, or a CERTIFIRE approved Licensed Door Processor. **No site cutting of apertures permitted as this will invalidate the certification.**

Additionally the leaf/leaves may incorporate CERTIFIRE approved glazing systems subject to the conditions contained within the relevant CERTIFIRE certificate (e.g. maximum size associated with glass, system, edge cover, aperture lining requirements, etc.) and the maximum pane dimensions given below (whichever is smaller):

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below:

Area: Maximum glazed area of 0.39 m<sup>2</sup> per leaf

Margins: 150 mm from the perimeter edge, 150 mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
650 (at 600 wide)	650 (at 600 high)	0.39

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



**Non-insulating glasses:** 7 mm thick Pyroshield or other CERTIFIRE approved glass subject to the conditions of the glass certificate.

Intumescent System	Bead Dimensions	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Dia.	Max. Area (m <sup>2</sup> )
Sealmaster Fireglaze 60 – 2 mm Palusol liner	30 mm high by 25 mm wide splayed including a 5 x 5 mm bolection (23 mm +/-1 mm edge cover)	Hardwood min 640 kg/m <sup>3</sup>	60 mm long No.6 screws at max 150 mm centres	650 (at 600 wide)	650 (at 600 high)	N/A	0.39

## 9. Intumescent Seals

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

**For door assemblies/doorsets to BS476: Part 22 – classified as FD60**

**Mann McGowan Pyrostrip Intumescent Seals**

Doorset Configuration	Position	Required Intumescent Protection
<b>Flamebreak 660</b> Single-Acting, Single-Leaf Latched / Unlatched (max. 2388 mm high or 1183 mm wide – 2823 m <sup>2</sup> max. area)	Head	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart
	Vertical	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart
<b>Flamebreak 660</b> Single-Acting, Double-Leaf Latched / Unlatched Square meeting edges (max. 2155 mm high or 935 mm wide – 2.02 m <sup>2</sup> max. area)	Head	1No. 30 mm wide by 4 mm thick – fitted centrally
	Hanging	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart
	Meeting edges	2No. 15 mm wide by 4 mm thick in primary leaf only - fitted centrally 8mm apart
<b>Flamebreak FF660</b> Single-Acting, Single-Leaf Latched / Unlatched (max. 2096 mm high or 933 mm wide – 1.94 m <sup>2</sup> max. area)	Head	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart
	Vertical	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart





## Pyroplex 8700 Rigid Box Intumescent Seals

Doorset Configuration	Position	Required Intumescent Protection
<b>Flamebreak 660</b> Single-Acting, Double-Leaf Latched / Unlatched Square meeting edges (max. 2236 mm high or 971 mm wide – 2.09 m <sup>2</sup> max. area)	Head	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart
	Hanging	2No. 15 mm wide by 4 mm thick – fitted centrally 10 mm apart
	Meeting edges	2No. 15 mm wide by 4 mm thick in primary leaf only - fitted centrally 8mm apart

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.

### 10. Hinges

Hinges shall be CE Marked against EN 1935 for use on 60 minute timber fire doors

Number:	3No. per leaf (minimum)
Type:	Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel.
Positions*:	200 mm from the head of the leaf and 250-262 mm from the base of the door leaf. 3rd hinge positioned central in height.
Dimensions:	Blade height: 100 mm (+/- 20%) Blade width: 35 mm (+/- 2mm) Blade thickness: 3 mm (+/- 0.5 mm) Knuckle dia.: 14 mm (+/- 1mm)
Fixings:	Minimum 4 No. steel screws Minimum M5 x 30 mm
Intumescent: protection**	1 mm Interdens sheet material behind each blade

\* 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 manufacture's CERTIFIRE certificate shall apply.

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

### 11. Locks and Latches



Locks/latches are not necessary although when fitted shall be CE Marked for use on 60 minute timber fire doors.

Tubular latches:

Max. forend dimension	57 mm high x 27 mm wide
Latchbolt material:	Steel or brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*:	1 mm Interdens sheet material wrapped around case and behind forend and keep.

\* 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 exceeds the specification given above the intumescent protection as identified in the lock/latch manufacture'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 handles.

## **12. Self-Closing Devices**

All doors are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doors kept locked shut such as service access 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.

## **13. Ancillary items**

### **13a 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.

### **13b Flushbolts**

Not permitted

Secondary leaf may be secured with surface mounted bolts, attached to either face of the door.

### **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 CB Solutions, 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 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.

### **13e. Letter Plates**

Not permitted.

### **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 insulated glazing

## **14. Further Information**

Further information regarding the details contained in this data sheet may be obtained from CB Solutions (Tel: 01262 469 130).

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).**

