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## CERTIFICATE OF APPROVAL

### No CF 454

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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

## VICAIMA LIMITED

Drakes Way Business Centre, Marlowe Avenue, Greenbridge Industrial Estate  
Swindon SN3 3JF  
Tel: 01793 532333 Fax: 01793 530193

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

Vicaima Limited FD60  
Prima 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 - Management Council

Issued: 9<sup>th</sup> January 2008  
Reissued: 15<sup>th</sup> May 2013  
Valid to: 14<sup>th</sup> May 2018

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Only valid when authentic  
Seal is in place  
CERTIFIRE



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## CERTIFICATE No CF 454 VICAIMA LIMITED

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### VICAIMA LIMITED 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.
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 or mild steel frames, with intumescent edge seals (ITT & ITM 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 and double-acting, single and double-leaf, ITT and ITM assemblies with or without overpanels, 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 black ink, appearing to be "K. J. ...".



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## CERTIFICATE No CF 454 VICAIMA LIMITED

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### VICAIMA LIMITED FD60 TIMBER DOOR ASSEMBLIES

9. Labels to the BWF/CERTIFIRE design referencing Vicaima Limited, CERTIFIRE and CERTIFIRE Ref. No. CF454 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 <sup>2</sup> )
Single-Acting, Single & Double-Leaf Latched / Unlatched - MDF frame	2040 (at 826 wide)	838 (at 1981 high)	1.69
Single-Acting, Single-Leaf Latched / Unlatched - Timber frame	2305 (at 915 wide)	988 (at 2135 high)	2.11
Single-Acting, Single-Leaf Latched / Unlatched – Mild steel frame	2635 (at 1105 wide)	1355 (at 2135 high)	2.91
Single-Acting, Double-Leaf* Latched / Unlatched - Timber frame	2246 (at 826 wide)	908 (at 2042 high)	1.86
Single-Acting, Double-Leaf* Latched / Unlatched – Mild steel frame	2574 (at 795 wide)	954 (at 2145 high)	2.05
Double-Acting, Single and Double-Leaf* Latched / Unlatched - Timber frame	2040 (at 826 wide)	826 (at 2040 high)	1.69
Single-acting, single and double-leaf, latched <b>PVC Clad Frames</b>	2040 (at 926 wide)	926 (at 2040 high)	1.89

\* Plain meeting stiles

# CONSTRUCTIONAL SPECIFICATION FOR CERTIFIRE APPROVED FD60 TIMBER DOOR ASSEMBLIES

## Introduction

This document specifies constructional and other details for FD60 doors manufactured by Vicaima Limited and certified by CERTIFIRE under certificate No. CF454. 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. CF454.

### 1. Leaf and Overpanel Construction

- 1.1 Door leaf and overpanel core
- |           |   |  |
|-----------|---|--|
| Material  | - | Halspan three-layer particleboard manufactured by C.P.S. (Continuous Press System)   |
| Thickness | - | 54 mm (min)  |
| Density   | - | Prima 640 kg/m <sup>3</sup> (±10%).  |
| Facing    | - | No facing required   |
| Lippings  | - | Hardwood 6 –25 mm 650 kg/m <sup>3</sup> density to the vertical edges. May be lipped on all four edges if required.  |
| 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   |
|           | - | Door leaf may incorporate up to 6 no. 4 mm deep by 6 mm wide grooves either in one side only or in both sides, positioned so that the grooves are not juxtaposed |
- 1.2 Adhesives - PVA, PVAC, PU or UF
- 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**

The leaves may incorporate glazing systems as specified in Data Sheet

**5. Overpanels**

Overpanels may be included up to a maximum height of 2000 mm for single-leaf doorsets and 1500 mm for double-leaf doorsets, when used with a transom rail. The rail should have minimum dimensions as per the frame specification. Where a transom rail is not used the panel will incorporate a rebated hardwood lipping at the bottom edge and will have a maximum height of 400 mm.

**6. Hardware/Intumescent Seals**

To be as specified in Data Sheet

**7. Labels**

Labels of the BWF design referencing Vicaima Limited, CERTIFIRE CF454 and FD60 fire resistance, to be applied to each approved door leaf in the prescribed position



## VICAIMA LIMITED FD60 TIMBER DOOR ASSEMBLIES CF454 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 Halspan Limited 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 and double-acting, single and double-leaf configuration. The following table gives a maximum door leaf height (mm) at a standard width and a maximum width at a standard height (excluding overpanel). Intermediate maximum dimensions may be calculated by linear interpolation between the absolute maximum values as shown on Table 1 (reproduced below) appended to Certificate of Approval.

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single & Double-Leaf Latched / Unlatched - MDF frame	2040 (at 826 wide)	838 (at 1981 high)	1.69
Single-Acting, Single-Leaf Latched / Unlatched - Timber frame	2305 (at 915 wide)	988 (at 2135 high)	2.11
Single-Acting, Single-Leaf Latched / Unlatched – Mild steel frame	2635 (at 1105 wide)	1355 (at 2135 high)	2.91
Single-Acting, Double-Leaf* Latched / Unlatched - Timber frame	2246 (at 826 wide)	908 (at 2042 high)	1.86
Single-Acting, Double-Leaf* Latched / Unlatched – Mild steel frame	2574 (at 795 wide)	954 (at 2145 high)	2.05
Double-Acting, Single and Double-Leaf* Latched / Unlatched - Timber frame	2040 (at 826 wide)	826 (at 2040 high)	1.69
Single-acting, single and double-leaf, latched - <b>PVC Clad Frames</b>	2040 (at 926 wide)	926 (at 2040 high)	1.89

(1) All doorset timber framed configurations may incorporate overpanels which include a transom rail as detailed within data sheet.

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

(3) All single-acting timber framed doorset configurations may incorporate overpanels without a transom rail as detailed within data sheet.

\* Plain meeting stiles



**3. Door Frames** To be any of the following:

- Hardwood\* - Single-acting doorsets - Minimum density 640 kg/m<sup>3</sup> and basic section sizes 70 mm by 32 mm including a pinned, screwed or rebated from solid stop of minimum dimensions 12 mm deep minimum density 640 kg/m<sup>3</sup>.  
Double-acting doorsets - Minimum density 640 kg/m<sup>3</sup> and basic section sizes 86 mm by 40 mm.  
\* Ash and Iroko species may not be used
- Mild Steel - Backfilled with sand/cement mortar - Basic section sizes (single-acting only) 180 mm by 45 mm including a 15 mm integral doorstop.
- MDF - Single-acting doorsets up to 2040 x 826 mm or 1981 x 838 mm (single-action only) Minimum density 700 kg/m<sup>3</sup> and basic section sizes 90 mm x 30 mm, with a 12 mm wide pinned, screwed or integral stop.

**PVC Clad Hardwood -**

- Manufacturer: Boomer Industries Ltd.  
Material: Extruded Polyvinyl Chloride P.V.C. on machined hardwood sub-frame (density 575kg/m<sup>3</sup>)  
Reference: Pre-Hung Door System (P.H.D.)  
Thickness: P.V.C. 1.3 mm  
Wood 32 mm  
Overall Size: 146 mm by 55 mm  
Jambs to head  
jointing method: P.V.C. Mitred.  
Wooden sub-frame tenon joint screwed and glued using 3 number 4 mm by 60 mm long screws per joint  
P.V.C. profiles to wooden sub-frame fixings  
i. type Staples  
ii. material Galvanised mild steel  
iii. sizes 10 mm by 1 mm  
iv. centres 100 mm nominal

Transom rails to be of minimum dimensions as frame sections.

**4. Overpanels**

Overpanels may be included up to a maximum height of 2000 mm for single-leaf doorsets and 1500 mm for double-leaf doorsets, when used with a transom rail. Overpanels will include an identical intumescent specification to the door leaves.

Where a transom rail is not used the bottom edge of the panel will include a hardwood rebated lipping (18 mm thick with a 27.5 mm wide by 10 mm deep rebate) and will be of maximum height is 400 mm. The head of the leaf will be correspondingly lipped and rebated to suit.

**5. Door Gaps**

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



**6. Glazed Openings**

The leaf/leaves may incorporate CERTIFIRE approved glazing systems subject to the conditions contained within the relevant certificate and the maximum pane dimensions given below (whichever is smaller):

The maximum size and maximum total area of glazing per leaf is 1248 mm high by 400 mm wide (0.50 m<sup>2</sup>).

**7. 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.

**8. Installation:**

The opening may be lined with hardwood which shall be continuous and of minimum width, 70 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.

Fitting to be carried out in accordance with BS8214: 1990, Table 3

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

Stiles (each)	:	4 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.





## 9. Intumescent Seals

The following intumescent Seals are required to be fitted to these doors:

<b>Doorset Configuration</b>	<b>Frame</b>	<b>Position</b>	<b>Intumescent Specification</b>
Single-Acting, Single & Double-Leaf (Latched/unlatched)	MDF	Head & Vertical Edges	Two Mann McGowan 500P 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 8 mm.
		Meeting edges	As above fitted into the edge of one leaf only.
Single-Acting, Single-Leaf (Latched/unlatched)	Timber	Head & Vertical Edges	Two ISL Therm-A-Seal 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 8 mm. Or For leaves up to 2016 mm high by 926 mm wide: Two Lorient 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 8 mm.
Single-Acting, Single-Leaf (Latched/unlatched)	Steel	Head & Vertical Edges	A single ISL Therm-A-Seal of dimensions 38 mm wide by 4 mm thick to be fitted at mid-width of the door leaf edge or the reveal to the frame
Single-Acting, Double-Leaf (Latched/unlatched)	Timber	Head & Vertical Edges	Two ISL Therm-A-Seal of dimensions 15 mm wide by 4 mm thick to the door leaf edge or the reveal to the frame separated by approximately 8 mm
		Meeting edges	As above fitted into the edge of one leaf only
Single-Acting, Double-Leaf (Latched/unlatched)	Steel	Head & Vertical Edges	One ISL Therm-A-Seal of dimensions 38 mm wide by 4 mm thick to be fitted at mid-width of the door leaf edge or the reveal to the frame
		Meeting edges	Three ISL Therm-A-Seal of dimensions 15 mm wide by 4 mm thick to be fitted at



<b>Doorset Configuration</b>	<b>Frame</b>	<b>Position</b>	<b>Intumescent Specification</b>
Double-Acting, Single & Double-Leaf (Latched/unlatched)	Timber	Head & Vertical Edges	One Lorient 3804 Palusol seal of dimensions 38mm wide by 4 mm thick to be fitted centrally within the door leaf edge or the reveal to the frame or two off 2004 Palusol seal of dimensions 20mm wide by 4 mm thick to be fitted centrally within the door leaf edge or the reveal to the frame separated by approx 4 mm
		Meeting edges	One Lorient 3804 Palusol seal of dimensions 38mm wide by 4 mm thick to be fitted centrally within one door leaf edge only or two Lorient 2004 Palusol seal of dimensions 20mm wide by 4 mm thick to be fitted centrally within one door leaf edge only, separated by approx. 4 mm
Single-Acting, Single & Double-leaf with Flush Overpanel	Timber	Bottom edge of panel	Two Lorient 1504 Palusol seals of dimensions 15 mm wide by 4 mm thick.
		Head Of leaf	One Lorient 1004 Palusol seal of dimensions 10 mm wide by 4 mm thick to be fitted into the corner of the rebated lipping
		Vertical/Meeting edges	As detailed for relevant doorset configuration without overpanel.
Single-Acting, Single & Double-leaf in PVC Clad Frames	PVC Clad Timber	Frame Head	Two Lorient 2004 Palusol seals of dimensions 20 mm wide by 4 mm thick in rebate of frame under PVC cladding
		Frame Jamb	Two Lorient 2004 Palusol seals of dimensions 20 mm wide by 4 mm thick in rebate of frame under PVC cladding
		Meeting edges	Two Lorient 1504 Palusol seals of dimensions 15 mm wide by 4 mm thick

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. 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:	120 - 200 mm from the head and base of the leaf and 200 mm below the top hinge or equally spaced between top and bottom hinges.
Dimensions:	
i) Height:	100 - 110 mm
ii) Blade width:	30 - 41 mm
iii) Thickness:	3 mm
iv) Knuckle dia.:	10 - 13 mm
Fixings:	Steel screws, minimum 4 No. and no smaller than No. 8 by 32 mm long.
Protection	All hinges must be bedded onto 2 mm thick ISL Therm-A-Strip material under both blades.

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

## 11. Latches

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

Type	-	Mortice automatic (sprung) latch bolt
Case dims	-	Maximum 150 mm high, 100 mm wide by 25 mm thick
Forend dims	-	200 mm long by 32 mm wide by 6 mm thick 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	-	1 mm thick Interdens or Therm-A-Strip intumescent sheet encapsulating the lock case and behind forend and strike plates

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

## 12. 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.**



**13. Further Information**

Further information regarding the details contained in this data sheet may be obtained from Halspan Limited (Tel: 01506 827538).

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).

