



CERTIFICATE OF APPROVAL

No CF 5260

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

PACIFIC RIM WOOD LIMITED

Ground Floor Suite, Block B, The Old Kelways,
Langport, Somerset, TA10 9SJ

Tel: 01458 252305

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

Flamebreak 30 Fire Resisting ITT
Timber Door Blanks

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: 22nd September 2014
Reissued: 25th November 2019
Valid to: 24th November 2024





CERTIFICATE No CF 5260

PACIFIC RIM WOOD LIMITED

Pacific Rim Wood Limited. Flamebreak 30 - 44 mm Timber Door Blanks

This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 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 9999 for FD30 door assemblies when used in accordance with the provisions therein.

1. This certification is provided to the client for their 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. The doors comprise tri-laminate hardwood cored, timber framed leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD30).
4. 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.
5. This approval is applicable to single-action, single and double-leaf, latched and unlatched, glazed and unglazed ITT assemblies, with or without offset rebated meeting stiles at leaf dimensions up to those detailed within Tables 1, 2 and 3 below.
6. Glazing shall only be undertaken by 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.
7. Hardware items, including closing devices and intumescent fire seals, shall as specified in the Data Sheet.
8. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.

Signed
AM/004

Issued: 22nd September 2014
Reissued: 25th November 2019
Valid to: 24th November 2024

CERTIFICATE No CF 5260 PACIFIC RIM WOOD LIMITED

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5260 and FD30 classifications resistance shall be affixed to each door in the prescribed position.

Pacific Rim Wood Limited. Flamebreak 30 - 44 mm Timber Door Blanks

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.

Table 1. Flamebreak FF630 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Flamebreak FF630 Single-Acting, Single-Leaf Latched / Unlatched Lorient LP1504 15 mm wide by 4 mm thick intumescent	2216 (at 916 wide)	931 (at 2180 high)	2.03
Flamebreak FF630 Single-Acting, Single-Leaf Latched / Unlatched Pyroplex 8500 10 mm wide by 4 mm thick intumescent	2540 (at 1036 wide)	1076 (at 2445 high)	2.63
Flamebreak FF630 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> Lorient LP2004 20 mm wide by 4 mm thick intumescent (Single LP2004 20 mm wide by 4 mm thick to one meeting edge)	2600 (at 1004 wide)	1150 (at 2269 high)	2.61

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

Double-leaf dimensions given in the table above relate to each leaf.

Signed
AM/004



Issued: 22nd September 2014
 Reissued: 25th November 2019
 Valid to: 24th November 2024

CERTIFICATE No CF 5260 PACIFIC RIM WOOD LIMITED

Pacific Rim Wood Limited. Flamebreak 30 - 44 mm Timber Door Blanks

Table 2. Flamebreak 630 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Flamebreak 630 Single-Acting, Single-Leaf Latched / Unlatched Lorient LP1504 15 mm wide by 4 mm thick intumescent	2216 (at 916 wide)	931 (at 2180 high)	2.03
Flamebreak 630 Single-Acting, Single-Leaf Latched / Unlatched Pyroplex 8500 10 mm wide by 4 mm thick intumescent	2540 (at 1036 wide)	1076 (at 2445 high)	2.63
Flamebreak 630 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> Lorient LP2004 20 mm wide by 4 mm thick intumescent (Single LP2004 20 mm wide by 4 mm thick to one meeting edge)	2600 (at 1004 wide)	1150 (at 2269 high)	2.61

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

Double-leaf dimensions given in the table above relate to each leaf.

Signed
AM/004



Issued: 22nd September 2014
 Reissued: 25th November 2019
 Valid to: 24th November 2024

CERTIFICATE No CF 5260 PACIFIC RIM WOOD LIMITED

Pacific Rim Wood Limited. Flamebreak 30 - 44 mm Timber Door Blanks

Table 3. Flamebreak 430 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Flamebreak 430 Single-Acting, Single-Leaf Latched / Unlatched Lorient LP1504 15 mm wide by 4 mm thick intumescent	2600 (at 1114 wide)	1150 (at 2519 high)	2.9
Flamebreak 430 Single-Acting, Single-Leaf Latched Lorient LP2504 25 mm wide by 4 mm thick intumescent	3261 (at 1399 wide)	1486 (at 3070 high)	4.56
Flamebreak 430 Single-Acting, Single-Leaf Unlatched Lorient LP2504 25 mm wide by 4 mm thick intumescent	2698 (at 1154 wide)	1303 (at 2390 high)	3.11
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>12 mm offset rebated or Square Meeting edges</u> Lorient LP2504 25 mm wide by 4 mm thick intumescent (Single LP1004 10 mm wide by 4 mm thick to each meeting edge)	2541 (at 1075 wide)	1075 (at 2541 high)	2.73
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> 2No. Pyroplex 8500 10 x 4 mm intumescent (2No. Pyroplex 8500 10 x 4 mm to meeting one edge)	2900 (at 1088 wide)	1250 (at 2525 high)	3.16

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

Double-leaf dimensions given in the table above relate to each leaf.

Signed
AM/004



Issued: 22nd September 2014
Reissued: 25th November 2019
Valid to: 24th November 2024

CF 5260 DATA SHEET

PACIFIC RIM WOOD LIMITED. FLAMEBREAK 30 - 44 MM TIMBER DOOR BLANKS

1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 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 FD30 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.

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, 2 and 3 below.

Table 1. Flamebreak FF630 - Max. Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Flamebreak FF630 Single-Acting, Single-Leaf Latched / Unlatched Lorient LP1504 15 x 4 mm intumescent	2216 (at 916 wide)	931 (at 2180 high)	2.03
Flamebreak FF630 Single-Acting, Single-Leaf Latched / Unlatched Pyroplex 8500 10 x 4 mm intumescent	2540 (at 1036 wide)	1076 (at 2445 high)	2.63
Flamebreak FF630 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> Lorient LP2004 20 x 4 mm intumescent (Single LP2004 20 x 4 mm to one meeting edge)	2600 (at 1004 wide)	1150 (at 2269 high)	2.61

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

Double-leaf dimensions given in the table above relate to each leaf.

Table 2. Flamebreak 630 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Flamebreak 630 Single-Acting, Single-Leaf Latched / Unlatched Lorient LP1504 15 x 4 mm intumescent	2216 (at 916 wide)	931 (at 2180 high)	2.03
Flamebreak 630 Single-Acting, Single-Leaf Latched / Unlatched Pyroplex 8500 10 x 4 mm intumescent	2540 (at 1036 wide)	1076 (at 2445 high)	2.63
Flamebreak 630 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> Lorient LP2004 20 x 4 mm intumescent (Single LP2004 20 x 4 mm to one meeting edge)	2600 (at 1004 wide)	1150 (at 2269 high)	2.61

Table 3. Flamebreak 430 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Flamebreak 430 Single-Acting, Single-Leaf Latched / Unlatched Lorient LP1504 15 x 4 mm intumescent	2600 (at 1114 wide)	1150 (at 2519 high)	2.9
Flamebreak 430 Single-Acting, Single-Leaf Latched Lorient LP2504 25 x 4 mm intumescent	3261 (at 1399 wide)	1486 (at 3070 high)	4.56
Flamebreak 430 Single-Acting, Single-Leaf Unlatched Lorient LP2504 25 x 4 mm intumescent	2698 (at 1154 wide)	1303 (at 2390 high)	3.11
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>12 mm offset rebated or Square Meeting edges</u> Lorient LP2504 25 x 4 mm intumescent (Single LP1004 10 x 4 mm to each meeting edge)	2541 (at 1075 wide)	1075 (at 2541 high)	2.73
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> 2No. Pyroplex 8500 10 x 4 mm intumescent (2No. Pyroplex 8500 10 x 4 mm to one meeting edge)	2900 (at 1088 wide)	1250 (at 2525 high)	3.16

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

Double-leaf dimensions given in the table above relate to each leaf.

3. Door Frame

To be any of the following:-

Softwood or Hardwood	i) Density:	500 kg/m ³ min.
MDF	ii) Density:	700 kg/m ³ min.
Softwood, Hardwood or MDF	iii) Dimensions:	70 mm by 30 mm min.
	iv) Door Stop:	12 mm deep pinned, screwed or rebated from solid. Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
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 / Sidepanels

Flush overpanels are only permitted with Flamebreak 430 door leaves, and the overpanel should be manufactured using the Flamebreak 430 core and constructional faces – stiles and rails may be omitted.

Flush overpanels may be included up to a maximum height of 615 mm and shall include 6 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 12 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.

Meeting edges shall incorporate a 10 x 4 mm Pyroplex 8500 graphite based intumescent seal in each rebate, or centrally within the leaf /overpanel thickness where a flush meeting edge is adopted.

Where rebated meeting edges are not incorporated on double-leaf assemblies, timber astragals (min 640kg/m³) are required at the junction between the bottom of the overpanel and the top edge of the doors.

Flush overpanels shall be screw fixed at maximum 400 mm centres from the back of the head and jambs and a maximum of 100 mm from each corner, into the centre of the panel to a depth of at least 30 mm.

Framed overpanels incorporating a transom rail 30 mm thick (minimum) softwood or hardwood, may be included up to a maximum size of 1000 mm high

Framed sidepanels including a mullion 30 mm thick (minimum) softwood or hardwood may be included up to maximum width of 1000 mm

Framed overpanels/sidepanels 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/sidepanel 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 30 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 softwood or 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 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.

8. Leaf Size Adjustment

Door leaves of this design have been tested in single & double leaf configuration both with & without stiles & bottom rails. This therefore permits the door leaves to be reduced in height and/or width without restriction, providing that reduction in height is made from the bottom edge only & the top rail remains in position.

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

- Top: 3 mm - applicable to doors both with and without lippings to the top edge
- Bottom: Unlimited*
- Vertical edges: Unlimited**

* The bottom rail can be removed completely and remain unlippped

** No lippings to be fitted - door blanks are supplied with perimeter stiles and rails as part of the core construction they may be reduced in width without the need to apply lippings to the leaf edges subject to the following restrictions:

- Single-acting, single-leaves maximum 2135 mm high by 915 mm wide.
 - The stiles are not reduced by more than 50% of the original dimension.
 - The stiles are reduced equally from both vertical edges.
 - The top rail must not be reduced by more than 3mm.
 - There are no limits to the reduction of the bottom rail.

** Lippings to be fitted - Where the stiles have been completely removed the door leaf must be lipped to the vertical edges as a minimum with the option to apply lippings to the top and bottom leaf edges.

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.

9. Lippings

Hardwood	i) Density:	640 kg/m ³ minimum
	ii) Thickness:	Minimum 6 mm Maximum 20 mm
	iii) Adhesive:	Urea Formaldehyde, Cascamite or PU
Notes:	Single-acting, single-leaf doors maximum 2135 mm high by 915 mm wide complete with integral perimeter stiles and rails may be unlippped – see Section 8 of Data Sheet for full list of restrictions.	
	All double-leaf assemblies and single leaf assemblies in excess of 2135 mm high by 915 mm wide require lippings to the vertical leaf edges, with the option for lippings to the top and bottom leaf edges.	
	All doors, where the stiles have been completely removed, must be lippped to the vertical edges as a minimum with the option to apply lippings to the top and bottom leaf edges,	

10. 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.**

Door 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 0.91 m² per leaf

Margins: Apertures ≤ 1300 mm high: 100 mm from the leaf perimeter edge
100 mm between apertures
Apertures ≥ 1301 mm high: 160 mm from the leaf perimeter edge
160 mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
1300 (at 700 wide)	875 (at 1040 high)	0.91
2063 (at 300 wide)	375 (at 1650 high)	0.62

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

Double-leaf door assemblies with equal width leaves shall both be similarly glazed.

Non-insulating glasses: 7.2 mm thick Pyroguard, 7 mm thick Pyroshield 2 or other CERTIFIRE approved glass subject to the conditions of the glass certificate.

Glass Type	Intumescent System	Bead Dimensions	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Dia.	Max. Area (m ²)
7 mm Pyroshield 2	Sealmaster Fireglaze intumescent mastic – 2 mm thick	20 mm high by 22 mm wide splayed including a 5 by 5 mm bolection (12 mm +/-1 mm edge cover)	Hardwood min 640 kg/m ³	50 mm long No.6 screws 50 mm in from the corners and at max 200 mm centres	1300 (at 700 wide)	875 (at 1040 high)	N/A	0.91
7.2 mm Pyroguard	Intumescent Seals Therm-A-Strip 10 by 2 mm thick between the glass and bead – both sides	25 mm high by 24 mm wide splayed 13° including a 10 mm high by 8 mm wide bolection (15 mm +/-1 mm edge cover)	Hardwood min 640 kg/m ³	40 mm long pins or No.6 screws 50 mm in from the corners and at max 150 mm centres	2063 (at 300 wide)	375 (at 1650 high)	N/A	0.62

11. Intumescent Seals

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

For door assemblies to BS476: Part 22 – classified as FD30:

Pyroplex 8500 Rigid Box Intumescent Seals

Door assembly configuration	Position	Required Intumescent Protection
Flamebreak FF630 & 630 Single-Acting, Single-Leaf Latched / Unlatched (max. 2540 mm high or 1076 mm wide – 2.63 m ² max. area)	Head	Single 10 mm wide by 4 mm thick (fitted centrally)
	Vertical	Single 10 mm wide by 4 mm thick (fitted centrally)
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> (max. 2900 mm high or 1250 mm wide – 3.16 m ² max. area)	Head	2No. 10 mm wide by 4mm thick (fitted centrally - 10 mm apart)
	Hanging	2No. 10 mm wide by 4mm thick (fitted centrally - 10 mm apart)
	Meeting edges	2No. 10 mm wide by 4mm thick (centrally - 10 mm apart to primary leaf only)

Lorient 617 Intumescent Seals

Door assembly configuration	Position	Required Intumescent Protection
Flamebreak FF630 & 630 Single-Acting, Single-Leaf Latched / Unlatched (max. 2216 mm high or 931 mm wide – 2.03 m ² max. area)	Head	Single 15 mm wide by 4 mm thick (fitted centrally)
	Vertical	Single 15 mm wide by 4 mm thick (fitted centrally)
Flamebreak FF630 & 630 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> (max. 2600 mm high or 1150 mm wide – 2.61 m ² max. area)	Head	Single 20 mm wide by 4 mm thick (fitted centrally)
	Hanging	Single 20 mm wide by 4 mm thick (fitted centrally)
	Meeting edges	Single 20 mm wide by 4 mm thick (centrally in the primary leaf meeting edge)
Flamebreak 430 Single-Acting, Single-Leaf Latched / Unlatched (max. 2600 mm high or 1150 mm wide – 2.9 m ² max. area)	Head	Single 15 mm wide by 4 mm thick (fitted centrally)
	Vertical	Single 15 mm wide by 4 mm thick (fitted centrally)
Flamebreak 430 Single-Acting, Single-Leaf Latched (max. 3261 mm high or 1486 mm wide – 4.56 m ² max. area) Unlatched (max. 2698 mm high or 1303 mm wide – 3.11 m ² max. area)	Head	Single 25 mm wide by 4 mm thick (fitted centrally)
	Vertical	Single 25 mm wide by 4 mm thick (fitted centrally)
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>12 mm offset rebated meeting edges</u> (max. 2541 mm high or 1075 mm wide – 2.73 m ² max. area)	Head	Single 25 mm wide by 4 mm thick (fitted centrally)
	Hanging	Single 25 mm wide by 4 mm thick (fitted centrally)
	Meeting edges	Single 10 mm wide by 4 mm thick (fitted in both leaves - centrally within the base of the rebate)
Flamebreak 430 Single-Acting, Double-Leaf Latched / Unlatched <u>Square meeting edges</u> (max. 2541 mm high or 1075 mm wide – 2.73 m ² max. area)	Head	Single 25 mm wide by 4 mm thick (fitted centrally)
	Hanging	Single 25 mm wide by 4 mm thick (fitted centrally)
	Meeting edges	Single 10 mm wide by 4 mm thick (fitted in both leaves - fitted unopposed – 6 mm from the opening/closing face)

Latched or unlatched, single acting, single-leaves with maximum leaf dimensions 2040 mm high by 926 mm wide and of a minimum thickness of 43 mm may utilise alternative Intumescents in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved to Technical Schedule 35.

All other door assembly configurations should include the specific intumescent size type and location as specified within the data sheet.

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.

12. Hinges

Hinges shall be CE Marked against EN 1935 for use on 30 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 230-302 mm from the base of the door leaf. 3rd hinge positioned central in height.	
Dimensions:	Blade height:	100 mm (+/- 20%)
	Blade width:	30 mm – 35 mm
	Blade thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	14 mm (+/- 1mm)
Fixings:	Minimum 3 No. steel screws	
	Minimum No.8 by 30 mm long	
Intumescent: protection**	Not required	

* 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.

Any other CERTIFIRE approved hinge may be fitted, providing the hinge dimension are no greater than 10% in blade width and 25% in blade height from that approved above.

Where the Certifire approved hinge exceeds the specification given above, the minimum requirement for intumescent protection to the hinges, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given 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.

13. Locks and Latches

Locks/latches are not necessary, however where fitted shall be CE Marked for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt, cylinder rim nightlatches and knobsets:

Max. case dimension	165 mm high x 98 mm deep x 20 mm wide
Max. forend dimension	235 mm high x 20 mm wide
Max. keep dimension	196 mm high x 29 mm wide (excluding latch plate)
Latchbolt material:	Steel or brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*:	Not required
Configuration	Square / unrebated meeting stiles only

Tubular latches:

Max. forend dimension	57 mm high x 26 mm wide
Latchbolt material:	Steel or brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*:	Not required
Configuration	Square or offset rebated meeting stiles**

* 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.

Any other CERTIFIRE approved lock/latch may be fitted, providing no lock/strikeplate dimension is more than 25% of that approved above and subject to the conditions contained within the relevant certificate.

Where the Certifire approved lock/latch exceeds the specification given above, the minimum requirement for intumescent protection to the locks, latches and strikeplates, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the lock/latch manufacture's CERTIFIRE certificate shall apply.

** Rebated meeting stiles to be offset in accordance with the following details:

- Primary / Active leaf: 12 mm deep by 17 mm wide rebate
- Secondary / Inactive leaf: 12 mm deep by 27 mm wide rebate

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

No restriction on type and material of mechanical lever handles and knobs.

The use of mechanical locks in conjunction with electromechanical handles must be either CERTIFIRE approved for the application or subject to specific appraisal.

14. 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.

The closers shall have a power rating appropriate to the leaf sizes, subject to the closer having the ability to close the door from any angle and against any latch and/ or seals fitted. The closer shall have the ability to provide a minimum size 3 closing force. Where doors are unlatched a minimum size 3 shall be maintained.

Closers shall be CE Marked against EN 1154 and categorised as grade 1 – suitable for use on fire / smoke door assemblies.

CERTIFIRE approved closers for use with timber doors and composite frames (ITC) must be CERTIFIRE approved for this configuration specifically.

14a Surface mounted overhead closers

Any CERTIFIRE approved surface mounted overhead closer may be fitted, subject to the conditions contained within the relevant certificate.

14b Transom Mounted and Concealed Closers

Not permitted

14c Floor Springs

Not permitted

15. Ancillary items

15a 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.

15b Flushbolts

Not permitted

Secondary leaf may be secured using surface mounted bolts, attached to either the opening or closing face.

15c 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.

15d. 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 FD30 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.

15e. 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

FD30 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.

15f. Door Viewers

Door viewers may be fitted into the leaf providing the viewer comprises an all steel construction, with the exception of the optical lens, which shall be glass.

The door viewer will not be positioned higher than 1500 mm from the threshold to the centreline.

The door viewer will have an external diameter of not greater than 14 mm and will be fully lined with intumescent mastic, 1 mm thick interdens or 1 mm thick graphite based intumescent sheet material.

The door viewer complete with intumescent protection will be tightly fitted within the door leaf.

15g. 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

15h. Dropseals

Dropseals are to be CERTIFIRE approved with maximum dimensions 14 mm by 35 mm high.

Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

Note: Threshold gaps as stated in Section 3 are to be maintained

15i. Electric Strikes / Electro mechanical locks

Not permitted

16. Further Information

Further information regarding the details contained in this data sheet may be obtained from Pacific Rim Wood Limited (Tel: 01458 252305).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from Warrington Certification (Tel: +44 (0) 1925 646777).