



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, United Kingdom

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: 16th May 2024
Valid to: 21st September 2029





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, 3, 4 & 5 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 be 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.

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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.
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)	Maximum 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.

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Table 2. Flamebreak 630 Maximum Permitted Door Leaf Dimensions for Fire Performance			
Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum 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.

Both leaves of double-leaf assemblies shall be of identical construction.

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Table 3. Flamebreak 430 Maximum Permitted Door Leaf Dimensions for Fire Performance			
Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum 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.

Both leaves of double-leaf assemblies shall be of identical construction.

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Table 4. Flamebreak 430 Maximum Leaf Dimensions with Winkhaus AV2 Multipoint Locks <u>This door assembly configuration relates to untrimmed door leaves only</u>			
Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m ²)
Flamebreak 430 Single-Acting, Single-Leaf Latched Pyroplex Rigid Box Intumescent (CF355) 15 mm wide by 4 mm thick intumescent	2650 (at 1180 wide)	1180 (at 2650 high)	3.13

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

Table 5. Flamebreak 430 Maximum Leaf Dimensions with Winkhaus AV2 Multipoint Locks <u>This door assembly configuration relates to trimmed door leaves (stiles/bottom rail only)</u>			
Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m ²)
Flamebreak 430 Single-Acting, Single-Leaf Latched Pyroplex Rigid Box Intumescent (CF355) 15 mm wide by 4 mm thick intumescent	2115 (at 860 wide)	860 (at 2115 high)	1.82

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

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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, 3, 4 & 5 below.

Table 1.			
Flamebreak FF630 - Max. Permitted Door Leaf Dimensions for Fire Performance			
Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
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.

Both leaves of double-leaf assemblies shall be of identical construction.

Table 2.			
Flamebreak 630 Maximum Permitted Door Leaf Dimensions for Fire Performance			
Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
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 (m²)
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.

Both leaves of double-leaf assemblies shall be of identical construction.

Table 4.			
Flamebreak 430 Maximum Leaf Dimensions with Winkhaus AV2 Multipoint Locks			
<u>This door assembly configuration relates to untrimmed door leaves only</u>			
Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
Flamebreak 430 Single-Acting, Single-Leaf – Latched Pyroplex Rigid Box Intumescent (CF355) 15 mm wide by 4 mm thick intumescent	2650 (at 1180 wide)	1180 (at 2650 high)	3.13

Table 5.			
Flamebreak 430 Maximum Leaf Dimensions with Winkhaus AV2 Multipoint Locks			
<u>This door assembly configuration relates to trimmed door leaves (stiles/bottom rail only)</u>			
Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
Flamebreak 430 Single-Acting, Single-Leaf - Latched Pyroplex Rigid Box Intumescent (CF355) 15 mm wide by 4 mm thick intumescent	2115 (at 860 wide)	860 (at 2115 high)	1.82

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:-

Softwood or Hardwood (Solid only - finger jointed/laminated timber not permitted)	Density:	500 kg/m ³ min.
	Dimensions:	70 mm by 30 mm min.
	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.
MDF	Density:	700 kg/m ³ min.
	Dimensions:	70 mm by 30 mm min.
	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.
Winkhaus AV2 Locks Hardwood (Solid only - finger jointed/laminated timber not permitted)	Density:	640 kg/m ³ min.
	Dimensions:	110 mm by 59 mm minimum complete with a 50 mm wide by 15 mm deep integral rebate.
	This frame specification is required where Winkhaus AV2 multipoint locks are incorporated.	
Frame 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 mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles.	

	Please note that a reduced threshold gap may be required to comply with smoke leakage requirements.
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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 softwood or hardwood transom rail 30 mm thick (minimum) may be included up to a maximum size of 1000 mm high.

Framed sidepanels including a softwood or hardwood mullion 30 mm thick (minimum) 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 may be glazed in accordance with point 5 below

5. Glazed Fanlights

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.

Where brick, block, masonry walls are plasterboard faced, the plasterboard adjacent to the door assembly shall be mechanically fixed to ensure that it remains in-situ for the required integrity period.

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. Timber based 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.

8.1 Leaf Size Adjustment – Standard Locks & Latches

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 unlipped

** 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.

Each leaf of a Paired door assembly are required to be of the same construction and shall be trimmed in an identical manner by the same amount.

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.

8.2 Leaf Size Adjustment – Winkhaus AV2 Multipoint Locks

Door leaves complete with Winkhaus AV2 multipoint locks have been tested in single leaf, latched configuration both with & without stiles & bottom rails when lipped to all four door leaf edges.

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, and subject to the further application of lippings to all four door leaf edges after the doors have been reduced/trimmed.

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

Where doors incorporating Winkhaus AV2 multipoint locks are trimmed they shall comply with the following specification requirements.

- Latched single-acting, single-leaves only, maximum 2115 mm high by 860 mm wide.
- The door leaves shall be lipped to all four edges.
- The lippings shall be 8 mm thick, solid hardwood of minimum density 640 kg/m³.
- The top rail must not be reduced by more than 3mm.
- There are no limits to the reduction of the bottom rail.
- There are no limits to the reduction of the stiles, however the stiles shall be reduced equally from both vertical 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 (solid only)	i) Density:	640 kg/m ³ minimum
	ii) Thickness:	Minimum 6 mm Maximum 20 mm Doors with Winkhaus AV2 locks require 8 mm thick lippings.
	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 unlipped – see Section 8 of Data Sheet for full list of restrictions (excluding doors with multipoint locks).	
	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 lipped to the vertical edges as a minimum with the option to apply lippings to the top and bottom leaf edges,	
	All doors incorporating Winkhaus AV2 multipoint locks shall be lipped to all four leaf edges using 8 mm thick solid hardwood, minimum density 640 kg/m ³ .	
	Lippings shall be applied by a CERTIFIRE approved Licensed Door Processor	

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.**

Doors 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: 7mm thick Pyroguard EW30 Impact, 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 Pyroguard EW30 Impact	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:

Lorient Type 617 Intumescent Seals – Standard Locks & Latches		
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>	Head	Single 25 mm wide by 4 mm thick (fitted centrally)
	Hanging	Single 25 mm wide by 4 mm thick (fitted centrally)

(max. 2541 mm high or 1075 mm wide – 2.73 m ² max. area)	Meeting edges	Single 10 mm wide by 4 mm thick (fitted in both leaves - fitted unopposed – 6 mm from the opening/closing face)
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Pyroplex Rigid Box Intumescent Seals (CF355) – Standard Locks & Latches		
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)
Note: This intumescent option cannot be used in conjunction with door assemblies incorporating a Rutland UK concealed overhead closer.		

Pyroplex Rigid Box Intumescent Seals (CF355) – Winkhaus AV2 Multipoint Locks		
Door assembly configuration	Position	Required Intumescent Protection
Flamebreak 430 Single-Acting, Single-Leaf Latched	Frame head	Single 15 mm wide by 4 mm thick positioned 15 mm from the opening face of the frame, within the frame reveal
	Frame jambs	Single 15 mm wide by 4 mm thick positioned 15 mm from the opening face of the frame, within the frame reveal
	Bottom edge of door leaf	Single 15 mm wide by 4 mm thick positioned centrally within the leaf thickness to the bottom edge of the door leaf

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, excluding door assemblies incorporating a Winkhaus AV2 multipoint lock or a Rutland UK ITS.11204 concealed overhead closer. All seals to be CERTIFIRE approved to Technical Schedule 35

All other door assembly configurations shall 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 door assemblies.

Number:	3No. per leaf (minimum)	
Type:	Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel.	
Positions*:	Top hinge:	Maximum 200 mm from the top of the door leaf
	Middle hinge:	The mid-height of the door leaf (± 50 mm)
	Bottom hinge:	230-302 mm from the bottom of the door leaf
	* The datum in all cases is the centreline of the hinge.	
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 in the table above (excluding the tolerances stated). Where the Certifire approved hinge exceeds the specification given in the table 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.

Double-action hinges are not permitted for use in conjunction with CERTIFIRE approved door assemblies.

Projection hinges and rising / falling butt hinges are not permitted for use in conjunction with CERTIFIRE approved door assemblies,

Nico security hinges may be utilised, in accordance with the following specification:

Manufacturer:	NICO Manufacturing limited	
Reference:	4515 SEC	
Number:	4No. per leaf (minimum)	
Type & material:	Grade 13 R10 stainless steel butt hinge with two ball bearings	
Positions*:	Top hinge;	200 mm from the top of the door leaf
	2 nd hinge:	400 mm from the top of the door leaf
	Middle hinge:	The mid-height of the door leaf (± 50 mm)
	Bottom hinge:	250 mm from the bottom of the door leaf
	* The datum in all cases is the centreline of the hinge.	

Dimensions:	Blade height:	101.6 mm
	Blade width:	30 mm
	Blade thickness:	3 mm
	Knuckle:	Ø 14 mm
	Security pin:	Ø 7 mm by 13 mm high
Fixings:	8No. steel screws, Ø 4.5 mm by 30 mm long	
Intumescent: protection**	1 mm thick by 100 mm long by 30 mm wide, Norsound NOR910 intumescent pad to all hinge blades.	

13. Locks and Latches

Locks/latches are not necessary, however where fitted shall be CE Marked in accordance with BS EN 12209 or BS EN 179 for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt:	
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 (rebates not permitted)

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

The following points relate to all locks & latches discussed within this section of the Data Sheet:

- Recessing for locks shall result in a tight fit, allowing for the intumescent protection specified.
- No restriction on type and material of face fixed mechanical lever handles and knobs providing these are wholly surface mounted (with the exception of the spindle and fixing holes) and the spindle hole is a maximum 16 mm in diameter

- The Euro profile cylinder recess in the door face shall follow the shape of the cylinder and result in a tight fit. The preparation for single cylinders shall penetrate through only half the thickness of the door leaf.
- The use of oval profile cylinders is not permitted.
- Where doorsets are required to be latched, the use of roller latches is not permitted.
- The use of mechanical locks in conjunction with electromechanical handles must be either CERTIFIRE approved for the application or subject to specific appraisal.
- The use of electric strikes/electromechanical locks is not permitted

Winkhaus AV2 Multipoint Locks

Single-action, single-leaf door assemblies, may incorporate Winkhaus AV2 multipoint locks in accordance with the following specification – See Table 4 and 5 for maximum leaf sizes:

Manufacturer:	Winkhaus GmbH & Co.			
Lock reference:	Winkhaus AV2 F2070			
Keep reference:	Winkhaus STVBAV2 (top & bottom), and Winkhaus STVBFR24 (centre)			
Lock material:	All galvanised steel, except for the forend which is stainless steel			
Keep material:	Stainless steel			
Case dimensions:	Central:	185 mm high by 70 mm deep by 15 mm wide		
	Top & Bottom:	113 mm high by 40 mm deep by 15 mm wide		
Forend dimensions:	1770 mm high by 20 mm wide by 3 mm thick			
Keep dimension:	Central:	235 mm high by 24 mm wide by 2 mm thick		
	Top & Bottom:	175 mm high by 24 mm wide by 2 mm thick		
Position:	975 mm (\pm 50 mm) from bottom of door to centreline of spindle.			
Lock Configuration:	Central:	Engaged latchbolt		
	Top & Bottom:	Engaged or disengaged hook bolts		
Cylinder:	Supplier / Ref:	ERA BS-L-T3535-51 Euro profile cylinder (KM553031)		
	Type:	Cylinder with thumbturn		
	Dimensions:	34 mm by 70 mm by 17 mm		
Lever Handles:	Manufacturer:	Winkhaus GmbH & Co.		
	Reference:	Winkhaus Melbourne 1672/2390N – ZA/3816N		
	Material:	F1 aluminium		
	Dimensions:	External face plate:	258 mm high by 34 mm wide by 15 mm thick	
		Internal face plate:	258 mm high by 34 mm wide by 10 mm thick	
Lever:	30 mm high by 135 mm wide by 65 mm projection			
Intumescent protection:	Lock cases:	The 3No lock cases shall be full wrapped in a 1 mm thick Interdens AV2 kit by Winkhaus.		
	Forend:	None required		
	Keeps:	The 3No keeps shall each be bedded on a 1 mm thick Interdens AV2 kit by Winkhaus.		
Frame:	Material:	Hardwood (solid)		
	Density:	640 kg/m ³ min.		
	Dimensions:	110 mm by 59 mm minimum complete with a 50 mm wide by 15 mm deep integral rebate.		

Lippings	Material:	Hardwood (solid)
	Density:	640 kg/m ³ min.
	Dimensions:	8 mm thick lippings to all four door leaf edges.
Perimeter seals:	Manufacturer:	Pyroplex
	Type:	Rigid Box Seals (CF355)
	Dimensions:	15 mm wide by 4 mm thick
	Position:	15 mm from the opening face of the frame, within the frame reveal (jamb and head)

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.

Uninsulated glass shall not be included directly below the body of surface mounted overhead closers.

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

Not permitted

14c Concealed Closers

The door assemblies may incorporate Rutland UK ITS.11204 concealed overhead closers in accordance with the following specification:

- CF5260 single-acting assemblies only.
- Flamebreak FF630, 630 & 430 blanks shall include full width stiles & rails (No trimming)
- Closer body is required to be fitted to the top edge of the door leaf with the guide rail fitted to the frame head. The closer body shall be positioned centrally within the door leaf thickness, with the guide rail positioned centrally within the frame rebate.
- The ITS.11204 closer shall be utilised in conjunction with the non-hold open guide rail, with lever arm 29 mm wide by 19 mm high by 460 mm long only.
- 8 mm thick hardwood lippings to be applied to all four door leaf edges. Lipping to have a minimum density of 640kg/m³.
- The perimeter intumescents shall comply with the size, type and positional requirements as stated within the tables in section 11 of the Data Sheet, subject to a minimum intumescent dimensions of 15 mm wide by 4 mm thick.

- CF5260 door leaves shall not be less than **44 mm thick** (excluding decorative faces).
- Intumescent protection to closer body and arm channel shall comprise of a 2 mm thick pre-cut graphite intumescent kit, referenced IP.114. including graphite intumescent sheet material to the closer body recess in the door leaf and the sides of the guide rail in the frame head.
- Frames are required to be softwood or hardwood with a minimum density of 510kg/m³.
- Frames are required to have a minimum overall section size of 75 mm wide by 35 mm thick, complete with a minimum 20 mm wide by 12 mm thick planted stop. Where the stop is rebated from solid the overall frame thickness must be increased by a minimum of 12 mm to accommodate the 12 mm rebate depth.
- Compliance is required with all additional requirements as stated within the Rutland UK CF5902, Certifire certificate of approval for the ITS.11204 closer.

14d Floor Springs

Not permitted

15. Ancillary items

Please note that hardware items other than those discussed within this certificate of approval are not permitted.

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 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 fixings are of steel and maximum bolt to bolt centres do not exceed 1000 mm.

A maximum 15 mm diameter recess is permitted for through bolt fixings.

Bolt through fixings will require intumescent protection in the form of a 1 mm thick graphite tube, or Intumescent mastic to the full depth of the recess.

15c 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.

15d 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.

Further to the above, door assemblies may be fitted with the USP Limited, Soterian TS008 Certifire approved letter plate and intumescent kit in accordance with the specification requirements stated within CF5723.

15e Flushbolts

Not permitted

Secondary leaf may be secured using surface mounted barrel bolts, attached to either the opening or closing face, providing they are screw fixed only, and not bolted through the full thickness of the door. Barrel bolts shall not encroach into the door/frame gap

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.

Graphite intumescent sheet material shall have suitable test evidence at the required thickness, for the required integrity/insulation performance, for use within timber door assemblies.

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

Further to the above, door assemblies may be fitted with the USP Limited, Door viewers, referenced SWALFBR-FR, SWALFCH-FR and SWALFSC-FR, complete with 1 mm thick Interdens or 1 mm thick graphite based intumescent sheet material to fully wrap the door viewer barrel.

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 / Electromechanical locks

Not permitted

15j Door Frame Seals

The Q-Lon seal referenced Aquamac 21 may be fitted within the frame jambs, head and cill, mounted on the rebate/stop, such that the door leaf perimeter edges contact the seal when the door is in the closed position. The inclusion of this seal does not negate the requirement to include a Certifire approved smoke seal, where smoke leakage performance is required.

15k Cills

Door assemblies may incorporate hardwood cills, in accordance with the following specification:

Reference:	Once rebated hardwood cill
Material:	Hardwood
Density:	Minimum 640kg/m ³ m
Dimensions:	145 mm wide by 60 mm high with a 50 mm wide by 15 mm deep rebate
Fixings:	3No Steel screws, Ø 5 mm by 100 mm long at each cill to frame jamb joint
Adhesive:	PVA adhesive included at the butt joint between the cill and frame jambs
Intumescent:	1No. 15 mm wide by 4 mm thick positioned centrally within the leaf thickness to the bottom edge of the door leaf

15l Planted Mouldings

Door leaves may incorporate wholly surface mounted planted mouldings to one face providing the mouldings do not cover more than 25% of the door face.

Door leaves may also incorporate wholly surface mounted planted mouldings to both faces providing the mouldings do not cover more than 25% in total when combining the area of planted mouldings applied to each door faces.

Where mouldings are applied to one or both faces the mouldings shall not increase the mass of the door leaf by more than 25%.

The mouldings shall be softwood/hardwood (min 450kg/m³) or MDF (min 610 kg/m³) and have maximum overall dimensions of 60 mm wide by 25 mm thick and be of any profile.

Mouldings shall be bonded to the door faces with PU or PVA adhesive. Optionally the moulding may also be pinned using maximum 18g by 30 mm long steel pins as required.

15m Weather Bars

Door leaves may incorporate wholly surface mounted weather bars to one face of the door leaf.

The weather bars shall be hardwood (min 640 kg/m³) and have maximum overall dimensions of 50 mm high by 50 mm projection and be of any profile.

Weather bars shall be screw fixed to the door face using 4No equally spaced steel wood screws of nominally 50 mm long. Optionally the weather bar may also be bonded to the door leaf facing using

PVA.

13n Edge Protectors

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 Warringtonfire Testing and Certification (Tel: +44 (0) 1925 646777).