



CERTIFICATE OF APPROVAL

No CF 492

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

PHILLIPS JOINERY LIMITED

**Airfield Industrial Estate, Ashbourne,
Derbyshire DE6 1HA, United Kingdom
Tel: 01335 343614**

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

**Phillips Joinery Ltd
Flamebreak 30 Fire Resisting
ITT Timber Door Assemblies**

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:
Reissued:
Valid to:**

**25th April 2007
14th November 2024
23rd November 2029**





CERTIFICATE No CF 492

PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED. FD30 TIMBER DOOR ASSEMBLIES

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 the door manufacturer, or a CERTIFIRE approved Licensed Door Processor and shall be in accordance with the Data Information Sheet and construction specification. No site cutting or glazing of apertures is permitted.
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.

Signed
CHK98405-1 

EWC-QU-FT-731 (Issue 2)

Page 2 of 6

Issued: 25th April 2007
Reissued: 14th November 2024
Valid to: 23rd November 2029

CERTIFICATE No CF 492 PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED. FD30 TIMBER DOOR ASSEMBLIES

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF492 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.

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

Signed
CHK98405-1 
EWC-QU-FT-731 (Issue 2)

Page 3 of 6

Issued: 25th April 2007
Reissued: 14th November 2024
Valid to: 23rd November 2029

CERTIFICATE No CF 492 PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED. FD30 TIMBER DOOR ASSEMBLIES

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.

Signed
CHK98405-1 

EWC-QU-FT-731 (Issue 2)

Page 4 of 6

Issued: 25th April 2007
Reissued: 14th November 2024
Valid to: 23rd November 2029

CERTIFICATE No CF 492 PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED. FD30 TIMBER DOOR ASSEMBLIES

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</u> <u>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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CHK98405-1 

EWC-QU-FT-731 (Issue 2)

Page 5 of 6

Issued: 25th April 2007
Reissued: 14th November 2024
Valid to: 23rd November 2029

CERTIFICATE No CF 492 PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED. FD30 TIMBER DOOR ASSEMBLIES

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

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

Table 6. 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 Lorient Type 617 Intumescent (CF341) 2No. 10 mm wide by 4 mm thick intumescent	2540 (at 1176 wide)	1176 (at 2540 high)	2.99

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

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CHK98405-1 

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CF 492 DATA SHEET
PHILLIPS JOINERY LIMITED FD30 TIMBER DOOR ASSEMBLIES

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

Table 6.			
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 Lorient Type 617 Intumescent (CF341) 2No. 10 mm wide by 4 mm thick intumescent	2540 (at 1176 wide)	1176 (at 2540 high)	2.99

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 Option One 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 in accordance with Table 4 and Table 5 of this Data Sheet, using 1No. Pyroplex Rigid Box intumescent 15 mm by 4 mm thick as detailed in sections 2 and 11 of this Data Sheet.	

Winkhaus AV2 Locks Option Two Softwood or hardwood (Solid or finger jointed timber permitted)	Density:	510 kg/m ³ min.
	Dimensions:	70 mm by 48 mm minimum complete with a 47 mm wide by 18 mm deep integral rebate.
	This frame specification is required where Winkhaus AV2 multipoint locks are incorporated in accordance with Table 6 of this Data Sheet, using 2No Lorient Type 617 intumescent 10 mm wide by 4 mm thick as detailed in sections 2 and 11 of this Data Sheet.	

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.

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 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 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 unipped – 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 Phillips Joinery Limited or 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):

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

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

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

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

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)

Lorient Type 617 Intumescent Seals – Standard Locks & Latches - continued		
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)

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
This intumescent configuration is for use with assemblies with maximum leaf sizes in accordance with Table 4 & Table 5 of this Data Sheet and Winkhaus <u>Option One</u> hardwood frame.		

Lorient Type 617 Intumescent Seals (CF341) – Winkhaus AV2 Multipoint Locks		
Door assembly configuration	Position	Required Intumescent Protection
Flamebreak 430 Single-Acting, Single-Leaf Latched	Frame head	Two 10 mm wide by 4 mm thick seals positioned 7 and 27 mm from the opening face of the frame, within the frame reveal
	Frame jambs	Two 10 mm wide by 4 mm thick seals positioned 7 and 27 mm from the opening face of the frame, within the frame reveal
This intumescent configuration is for use with assemblies with maximum leaf sizes in accordance with Table 6 of this Data Sheet and Winkhaus <u>Option Two</u> softwood or hardwood frame.		

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, an upper and lower 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*:	Option One – Top / Middle / Bottom Configuration	
	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:	Maximum 302 mm from the bottom of the door leaf
	Option Two – 2No. Top & 1No. Bottom Configuration	
	Top hinge:	Maximum 200 mm from the top of the door leaf
	2 nd hinge:	Minimum 400 mm from the top of the door leaf
	Bottom hinge:	Maximum 250 mm from the bottom of the door leaf
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 with CERTIFIRE approved door assemblies.

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

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

Manufacturer / reference:	NICO Manufacturing limited – 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
Dimensions:	Blade height:	101.6 mm
	Blade width:	30 mm
	Blade thickness:	3 mm
	Knuckle:	Ø14 mm
	Security pin:	Ø7 mm by 13 mm high
Fixings:	8No. steel screws, Ø4.5 mm by 30 mm long per hinge	
Intumescent: protection**	1 mm thick by 100 mm long by 30 mm wide, Norsound NOR910 graphite intumescent pad to all hinge blades.	

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

Hoppe, Arrone AR8182 hinges may be utilised, in accordance with the following specification:

Manufacturer / reference:	Hoppe, Arrone AR8182	
Number:	3No. per leaf (minimum)	
Type & material:	Grade 13 stainless steel ball bearing, butt hinges.	
Positions*:	Option One – Top / Middle / Bottom Configuration	
	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:	Maximum 302 mm from the bottom of the door leaf
	Option Two – 2No. Top & 1No. Bottom Configuration	
	Top hinge:	Maximum 200 mm from the top of the door leaf
Dimensions:	2 nd hinge:	Minimum 400 mm from the top of the door leaf
	Bottom hinge:	Maximum 250 mm from the bottom of the door leaf
	Blade height:	102 mm
	Blade width:	30 mm
Fixings:	Blade thickness:	3 mm
	Knuckle:	$\varnothing 14$ mm
Intumescent protection**	8No. steel screws, $\varnothing 4.5$ mm by 32 mm long per hinge	
	1 mm thick by 100 mm long by 30 mm wide, Norsound NOR910 graphite intumescent pad to all hinge blades.	

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

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
Cylinder:	Not permitted
Position:	Maximum 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*:	Not required
Configuration	Square / unrebated meeting stiles only (rebates not permitted)

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
Cylinder:	Euro profile single cylinder, double cylinder or cylinder / thumbturn, suitable for use on FD30 fire resistant assemblies in accordance with EN 1303.
Position:	Maximum 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*:	1 mm thick Interdens intumescent sheet material to fully wrap the case
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
Cylinder:	Not permitted
Position:	Maximum 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. Wholly surface mounted steel cylinder escutcheons Ø52 mm by 6 mm thick may be utilised.
- 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

Two locks/latches

Single-acting, single-leaf door assemblies may be fitted with 2No. locksets, subject to the upper lock being in accordance with the following specification:

Mortice type, automatic (sprung) latch bolt or deadlock	
Max. case dimension	81 mm high by 106 mm deep by 16 mm wide
Max. forend dimension	118 mm high by 23 mm wide by 2 mm thick
Max. keep dimension	89 mm high by 25.5 mm wide by 1.5 mm thick
Lock/latch bolt material:	Steel or brass
Configuration:	Both the upper and lower locks are required to be latched and/or locked
Cylinder:	Euro profile single cylinder, double cylinder or cylinder / thumbturn, suitable for use on FD30 fire resistant assemblies in accordance with EN 1303.
Position:	Maximum 1318 mm from the bottom of door to centreline of the spindle
Intumescent protection*:	1 mm thick Interdens intumescent sheet material to fully wrap the case, plus under the forend and keep.
Note:	Minimum 150 mm required between upper and lower lock cases and minimum 100 mm required between upper and lower forends

Winkhaus AV2 Multipoint Locks – Frame Option One – Pyroplex Rigid Box Intumescents

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 latch bolt with engaged or disengaged lock bolt
	Top & Bottom:	Engaged or disengaged hook bolts
Intumescent protection:	Lock cases:	The 3No lock cases shall be fully 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:	1No. 15 mm wide by 4 mm thick
	Position:	15 mm from the opening face of the frame, within the frame reveal (jambs and head)
Cylinder - Option One		
Supplier/reference:	ERA BS-L-T3535-51 Euro profile cylinder (KM553031)	
Type:	Cylinder with thumbturn	
Dimensions:	34 mm by 70 mm by 17 mm	
Cylinder - Option Two		
Supplier/reference:	Ultion DCBSW353DT-R177 Euro profile cylinder	
Type:	Cylinder with thumbturn	
Dimensions:	33 mm by 70 mm by 17 mm	
Lever Handles - Option One		
Supplier/reference:	Winkhaus GmbH & Co. - 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
Lever Handles - Option Two		
Supplier/reference:	Atlanta M1530M/3259N-ZA/384N-1 on narrow backplate.	
Material:	Brass	
Dimensions:	Backplate:	242 mm high by 32 mm wide by 15 mm thick
	Lever:	23 mm high by 127 mm wide by 71 mm projection

Winkhaus AV2 Multipoint Locks – Frame Option Two – Lorient Type 617 Intumescents

Single-action, single-leaf door assemblies, may incorporate Winkhaus AV2 multipoint locks in accordance with the following specification – See Table 6 for maximum leaf sizes:

Manufacturer:	Winkhaus GmbH & Co.	
Lock reference:	Winkhaus AV2	
Keep reference:	Winkhaus T-SB FR F24-908W R12 U R8 MC (top & bottom) Winkhaus T-SB AV2 F24-908 W G R12 SKG MV MC (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 60 mm deep by 15 mm wide
	Top & Bottom:	114 mm high by 45 mm deep by 15 mm wide
Forend dimensions:	1985 mm high by 20 mm wide by 3 mm thick	
Keep dimension:	Central:	236 mm high by 24 mm wide by 3 mm thick
	Top & Bottom:	177 mm high by 24 mm wide by 3 mm thick
Position:	975 mm (\pm 50 mm) from bottom of door to centreline of spindle.	
Lock Configuration:	Central:	Engaged latch bolt with engaged or disengaged lock bolt
	Top & Bottom:	Engaged or disengaged hook bolts
Intumescent protection:	Lock cases:	The 3No lock cases shall be fully wrapped in a 1 mm thick Interdens.
	Forend:	None required
	Keeps:	The 3No keep recesses shall be lined to the base and vertical edges with 1 mm thick Interdens.
Frame:	Material:	Softwood or Hardwood (solid or finger jointed)
	Density:	510 kg/m ³ min.
	Dimensions:	70 mm by 48 mm minimum complete with a 47 mm wide by 18 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:	Lorient
	Type:	Type 617 (CF341)
	Dimensions:	2No. 10 mm wide by 4 mm thick
	Position:	7 mm and 27 mm from the opening face of the frame, within the frame reveal (jamb and head)
Cylinder - Option One		
Supplier/reference:	ERA BS-L-T3535-51 Euro profile cylinder (KM553031)	
Type:	Cylinder with thumbturn	
Dimensions:	34 mm by 70 mm by 17 mm	
Cylinder - Option Two		
Supplier/reference:	Ultion DCBSW353DT-R177 Euro profile cylinder	
Type:	Cylinder with thumbturn	
Dimensions:	33 mm by 70 mm by 17 mm	
Lever Handles - Option One		
Supplier/reference:	Winkhaus GmbH & Co. - 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
Lever Handles - Option Two		
Supplier/reference:	Hoppe - Atlanta M1530M/3259N-ZA/384N-1 on narrow backplate.	
Material:	Brass	
Dimensions:	Backplate:	242 mm high by 32 mm wide by 15 mm thick
	Lever:	23 mm high by 127 mm wide by 71 mm projection

Hoppe, Arrone AR8004 sashlocks may be utilised in accordance with the following specification:

Manufacturer:	Hoppe
Lock/keep reference:	Arrone AR8004
Lock/keep material:	Steel
Case dimensions:	108 mm high by 67 mm deep by 17 mm wide
Forend dimensions:	156 mm high by 25 mm wide by 3 mm thick (plus 1 mm thick cover plate)
Keep dimension:	155 mm high by 29 mm wide by 4 mm thick (excluding latch plate)
Position:	975 mm (\pm 50 mm) from bottom of door to centreline of spindle
Cylinder:	Euro profile single cylinder, double cylinder or cylinder / thumbturn, suitable for use on FD30 fire resistant assemblies in accordance with EN 1303
Escutcheon:	Hoppe, Arrone AR961/67-SSS – \varnothing 52 mm by 6 mm thick
Intumescent protection:	1 mm thick Interdens intumescent sheet material to fully wrap the case

Carlisle Brass LFB2SSS locks may be utilised in accordance with the following specification:

Manufacturer:	Carlisle Brass
Lock/keep reference:	LFB2SSS
Lock/keep material:	Steel
Case dimensions:	81 mm high by 106 mm deep by 16 mm wide
Forend dimensions:	118 mm high by 23 mm wide by 2 mm thick
Keep dimension:	89 mm high x 25.5 mm wide by 1.5 mm thick
Position:	Maximum 1318 mm from the bottom of door to centreline of the spindle
Cylinder:	Euro profile single cylinder, double cylinder or cylinder / thumbturn, suitable for use on FD30 fire resistant assemblies in accordance with EN 1303
Escutcheon:	Hoppe, Arrone AR961/66- SSS – \varnothing 52 mm by 6 mm thick
Lock Configuration:	Engaged latch bolt and/or engaged lock bolt
Intumescent protection*:	1 mm thick Interdens intumescent sheet material to fully wrap the case, plus under the forend and keep
Note:	Minimum 150 mm required between upper and lower lock cases and minimum 100 mm required between upper and lower forends

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:

- CF492 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 intumescent 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.
- CF492 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

PHILLIPS JOINERY LIMITED
Data Sheet CF492

Page 17 of 21
November 2024

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

15f Barrel bolts

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

15g 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 of the viewer, whilst maintaining a minimum 240 mm margin to the door leaf vertical edges.

2No door viewers may be fitted, subject to a minimum 250 mm centre to centre margin being maintained, between viewers and the upper viewer being positioned no higher than 1500 mm from the threshold to the centreline of the viewer.

The door viewers shall have an external diameter of not greater than 14 mm and shall 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.

15h Coat Hooks and Other Surface Mounted Hardware

Ancillary items which are wholly surface mounted may be fitted providing:

- These items are screw fixed or bonded only
- Are not bolted through the full thickness of the door
- Are not directly above, or closer than 100 mm to any non-insulated glazing

15i 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

15j Electric Strikes / Electromechanical locks

Not permitted

15k 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.

15l 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, Ø5 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

15m 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.

15n 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.

13o Edge Protectors

Not permitted

13p Data Pins

Data pins, where required, shall be in accordance with the specification below:

Supplier:	Door Data Systems	
Description/reference:	Data Pin/Data ID Tag	
Materials:	Computer chip with dual plastic coating	
Overall dimensions:	Ø6 mm by 38 mm	
Position (within door leaf):	Hang edge:	700 mm (±100 mm) from the top of the door leaf
Fixing method:	Data pins are friction fitted into the top or hang edge of the door leaf, centred within the leaf thickness	
Intumescent protection:	None required	

13q Feature Grooves

- Flamebreak 430 and Flamebreak 630 doors may be grooved to a maximum width of 10 mm by a maximum depth of 2 mm to one or both faces.
- Grooves may be full height and width, running horizontally and vertically or a combination of both.
- Grooves shall not extend to the perimeter of cut outs, therefore a minimum 30 mm margin shall be maintained between grooves and all recesses through the door leaf faces for apertures, letter plates, air transfer grilles etc.
- Grooves may be square, 'U' shaped or 'V' shaped on the basis that the maximum overall groove depth and width are not exceeded.
- A 100 mm minimum margin shall be maintained between the door leaf perimeter and grooves that run parallel to the door leaf edges.
- A 100 mm minimum margin shall be maintained between grooves extending into the frame stop / rebate, i.e., full width grooves on the closing face of the door leaf.
- A 100 mm minimum margin shall be maintained between adjacent horizontal and vertical grooves.

16. Further Information

Further information regarding the details contained in this data sheet may be obtained from Phillips Joinery Ltd (Tel: 01335 343614).

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