



CERTIFICATE OF APPROVAL

No CF 5614

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

FALCON PANEL PRODUCTS LTD

Clock House, Station Approach, Shepperton, Middlesex, TW17 8AN
Tel: 01932 256580

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
Stredor FD30 ITT 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: 9th July 2018
Reissued: 2nd November 2020
Valid to: 1st November 2025



CERTIFICATE No CF 5614

FALCON PANEL PRODUCTS LTD

FALCON PANEL PRODUCTS LTD STREDOR 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. 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 cellulosic cored 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 latched and unlatched, single-acting, single and double-leaf, ITT assemblies with or without overpanels, at leaf dimensions up to those given in the Tables 1, 2 and 3 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.

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AL/004 – J/149

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FALCON PANEL PRODUCTS LTD STREDOR FD30 TIMBER DOOR ASSEMBLIES

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5614 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.

44 mm & 54 mm Plywood Faced Doors - Pyroplex Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2947 (at 1006 wide)	1212 (at 2447 high)	2.97
Single-Acting, Double-Leaf Latched / Unlatched	2947 (at 1062 wide)	1250 (at 2504 high)	3.13

Table 1

44 mm & 54 mm Plywood Faced Doors - Lorient Polyproducts Type 617 Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2947 (at 1006 wide)	1212 (at 2447 high)	2.97
Single-Acting, Double-Leaf Latched / Unlatched	2947 (at 1006 wide)	1212 (at 2447 high)	2.97

Table 2

44 mm & 54 mm Plywood Faced Doors - SureFire Classic lock – Pyroplex Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched	2653 (at 1183 wide)	1183 (at 2653 high)	3.14

Table 3

44 mm MDF Faced Doors - Lorient Polyproducts Type 617 Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-acting, Single-leaf Latched / Unlatched	2540 (at 955 wide)	1185 (at 2047 high)	2.43
Single-acting, Double-leaf Latched / Unlatched	2540 (at 955 wide)	1185 (at 2047 high)	2.43

Table 4



CERTIFICATE No CF 5614 FALCON PANEL PRODUCTS LTD

FALCON PANEL PRODUCTS LTD STREDOR FD30 TIMBER DOOR ASSEMBLIES

OVERSIZE 54 mm Plywood Faced Doors - Pyroplex Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2645 (at 1173 wide)	1173 (at 2645 high)	3.10
Single-Acting, Double-Leaf Latched / Unlatched	2645 (at 1173 wide)	1173 (at 2645 high)	3.10

Table 5

OVERSIZE 54 mm Plywood Faced Doors - Lorient Polyproducts Type 617 Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Double-Acting, Single-Leaf Unlatched	2540 (at 1176 wide)	1176 (at 2540 high)	2.99

Table 6

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



CF5614 DATA SHEET

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, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 30 when used in accordance with the provisions therein.

In recognition of this, the leaf carries a prefixed label on the top or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with a CERTIFIRE approved Quality Management System and is subject to on-going surveillance. This label shall not be removed.

It is emphasised that the certification is conditional upon the following instructions being complied with in their entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door. Door assemblies supplied pre-fitted with components by Falcon Panel Products Limited may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

This approval is applicable to single-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Tables 1, 2 and 3 below.

44 mm & 54 mm Plywood Faced Doors - Pyroplex Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2947 (at 1006 wide)	1212 (at 2447 high)	2.97
Single-Acting, Double-Leaf Latched / Unlatched	2947 (at 1062 wide)	1250 (at 2504 high)	3.13

Table 1

44 mm & 54 mm Plywood Faced Doors - Lorient Polyproducts Type 617 Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2947 (at 1006 wide)	1212 (at 2447 high)	2.97
Single-Acting, Double-Leaf Latched / Unlatched	2947 (at 1006 wide)	1212 (at 2447 high)	2.97

Table 2

44 mm & 54 mm Plywood Faced Doors - SureFire Classic lock – Pyroplex Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched	2653 (at 1183 wide)	1183 (at 2653 high)	3.14

Table 3

44 mm MDF Faced Doors - Lorient Polyproducts Type 617 Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-acting, Single-leaf Latched / Unlatched	2540 (at 955 wide)	1185 (at 2047 high)	2.43
Single-acting, Double-leaf Latched / Unlatched	2540 (at 955 wide)	1185 (at 2047 high)	2.43

Table 4

OVERSIZE 54 mm Plywood Faced Doors - Pyroplex Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2645 (at 1173 wide)	1173 (at 2645 high)	3.10
Single-Acting, Double-Leaf Latched / Unlatched	2645 (at 1173 wide)	1173 (at 2645 high)	3.10

Table 5

OVERSIZE 54 mm Plywood Faced Doors - Lorient Polyproducts Type 617 Intumescent

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Double-Acting, Single-Leaf Unlatched	2540 (at 1176 wide)	1176 (at 2540 high)	2.99

Table 6

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

Timber framed door assembly configurations may incorporate overpanels which include a transom rail as detailed within data sheet.

3. Door Frame

To be any of the following:-

Single-Acting Frames Softwood or Hardwood	i) Density:	510 kg/m ³ min.
	ii) Dimensions:	70 mm by 32 mm min.
	iii) 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. (min stop density 510 kg/m ³).
OVERSIZE Single-Acting Frames Hardwood	i) Density:	640 kg/m ³ min.
	ii) Dimensions:	100 mm by 32 mm min.
	iii) 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. (min stop density 640 kg/m ³).
Double-Acting Frames	i) Density:	640 kg/m ³ min.
	ii) Dimensions:	100 mm by 44 mm min. The hang jamb is to include an 8 mm deep scallop.
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 meeting stiles of pairs where 3.5 mm gaps are permitted. A maximum threshold gap of 8 mm is permitted	

Where door assemblies incorporate the ERA SureFire Classic lock the following frame specification is required.

Hardwood / Softwood	i) Density:	510 kg/m ³ min.
	ii) Dimensions:	80 mm by 44 mm minimum, complete with a 12 mm deep rebate.

4 Decorative finishes

Any additional timber veneer or paint finish.

Any additional non-metallic facing material, e.g. plastic laminate up to 2mm applied to the face

only (application to the door edge is not permitted)

5 Lippings

Solid Lippings - Single-acting Doorsets

Material: Hardwood to all four edges as a minimum

Density: Minimum 640 kg/m³

Thickness: Minimum 6 mm / Maximum 25 mm

Adhesive: Polyurethane based hot melt adhesive, PUR, UF or PVA

Solid Lippings - Double-acting Doorsets

Material: Hardwood to all four edges as a minimum

Density: Minimum 640 kg/m³

Thickness: Min. 18 mm / Max. 25 mm thick to the hang edge

Min. 18 mm / max 25 mm thick to top & bottom edge

Min. 8 mm / max 25 mm thick to the lock edge.

Adhesive: Polyurethane based hot melt adhesive, PUR, UF or PVA

Solid Lippings – Doorsets fitted with ERA SureFire Classic locks

Doorsets fitted with ERA SureFire Classic locks require the following lipping specification:

Material: Hardwood (solid only) to all four edges minimum

Density: 640 kg/m³ minimum

Thickness: Minimum 10 mm / Maximum 25 mm

Adhesive: Polyurethane based hot melt adhesive, PUR, UF or PVA

Strelip lippings - Single-acting Doorsets only – See Table 1, Table 2 & Table 4

Material: Reconstituted Poplar engineered veneer to all four edges as a minimum

Density: Minimum 680 kg/m³

Thickness: Minimum 7 mm / Maximum 10 mm

Adhesive: Polyurethane based hot melt adhesive, PUR, UF or PVA

Strelip lippings are limited to Single-acting doorsets in accordance with Table 1, Table 2 & Table 4 only.

6. Overpanels / Sidepanels

Transomed overpanels manufactured to the same specification as the door leaves, may be included in timber framed doorsets up to a maximum height of 1000 mm.

Mullioned sidepanels manufactured to the same specification as the door leaves, may be included in timber framed doorsets up to a maximum width of 1000 mm.

Overpanels sidepanels will include an identical intumescent specification to the door leaves and a minimum 44 mm thick hardwood transom rail / mullion with a min density of 640 kg/m³

Entire overpanel only may be glazed in accordance with point 7 below.

7. 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.

8. 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.

9. Installation

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

Door assemblies shall be installed as stated in BS 8214. Suitable CERTIFIRE approved lineal gap sealing systems may also be utilised to protect the frame/supporting construction gap, subject to the conditions contained within the relevant certificate.

The use of third party accredited installers provides a means of ensuring that installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

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

- Stiles (each): 3 mm
- Top: 3 mm
- Bottom: 3 mm

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.

10. Glazed Apertures

All apertures to be factory prepared by Falcon Panel Products Limited, or a CERTIFIRE approved Licensed Door Processor. No site cutting of apertures permitted as this will invalidate the certification.

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

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below, but please note that the maximum dimensions vary depending on whether a plywood faced, or MDF faced door is being used.

Area: Plywood Faced Doors: Maximum total glazed area of 0.8 m² per leaf

MDF Faced Doors: Maximum total glazed area of 0.37 m² per leaf

Margins: Plywood Faced Doors: Minimum 185 mm from the perimeter leaf edge
Minimum 250 mm between apertures

MDF Faced Doors: Minimum 100 mm from the perimeter leaf edge
Minimum 100 mm between apertures

Maximum Permitted Aperture Dimensions			
Door Construction	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Plywood Faced Doors	2000 (at 400 wide)	500 (at 1600 high)	0.8
MDF Faced Doors	1480 (at 250 wide)	308 (at 1200 high)	0.37

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

Both leaves in a double-leaf door assembly shall be glazed similarly.

Non-Insulating glasses: Rectilinear apertures

Glass Type	Intumescent System	Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Pyroshield 2	Intumescent Seals Ltd. Therm-A-Glaze, 10 x 2 mm	21 mm high by min 24mm wide (including a 6 mm by 5 mm bolection) Bead to include a 10° splay 13 mm +2/-1 mm edge cover	Hardwood min. 640 kg/m ³	60 mm long pins or No.6 x 60 mm long screws at max 150 mm centres, max. 50 mm in from corners. Fixings angled at 10° to the face of the glass. Min 2No fixings per bead length	Plywood Faced Doors		
					1700 (at 150 wide)	170 (at 1500 high)	0.26 m ²
					MDF Faced Doors		
					1480 (at 170 wide)	170 (at 1480 high)	0.25 m ²
Pyroguard EW 30	Intumescent Seals Ltd. Therm-A-Glaze, 10 x 2 mm	21 mm high by min 24mm wide (including a 6 mm by 5 mm bolection) Bead to include a 10° splay 13 mm +2/-1 mm edge cover	Hardwood min. 640 kg/m ³	60 mm long pins or No.6 x 60 mm long screws at max 150 mm centres, max. 50 mm in from corners. Fixings angled at 10° to the face of the glass. Min 2No fixings per bead length	Plywood Faced Doors		
					1875 (at 150 wide)	188 (at 1500 high)	0.28 m ²
					MDF Faced Doors		
					1480 (at 188 wide)	188 (at 1480 high)	0.28 m ²

Non-Insulating glasses: Rectilinear apertures - Continued

Glass Type	Intumescent System	Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Pyroguard EW 30	Pyroplex FG30, 14.2 x 6.4 mm	22 mm high by min 24mm wide (including a 7 mm by 7 mm bolection) Bead to include a 18° splay 13 mm +2/-1 mm edge cover	Hardwood min. 640 kg/m ³	40 mm long pins or No.6 x 40 mm long screws at max 150 mm centres to the vertical bead edges and max. 110 mm centres to the horizontal beads, max. 50 mm in from corners. Min 2No fixings per bead length	Plywood Faced Doors		
					2000 (at 400 wide)	500 (at 1600 high)	0.8 m ²
					MDF Faced Doors		
					1480 (at 250 wide)	308 (at 1200 high)	0.37 m ²
Pyroguard EW 30	Lorient Polyproducts Ltd, Flexible Figure 1, 13 x 3.5 mm	22 mm high by min 22mm wide (including a 7 mm by 7 mm bolection) Bead to include a 20° splay 13 mm +2/-1 mm edge cover	Hardwood min. 640 kg/m ³	40 mm long pins or No.6 x 40 mm long screws at max 130 mm centres, max. 50 mm in from corners. Min 2No fixings per bead length	Plywood Faced Doors		
					2000 (at 400 wide)	500 (at 1600 high)	0.8 m ²
					MDF Faced Doors		
					1480 (at 250 wide)	308 (at 1200 high)	0.37 m ²

Both leaves in a double-leaf door assembly shall be glazed similarly.

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 – Timber frames

44 mm & 54 mm Plywood Faced Doors - Pyroplex intumescents

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Door assemblies	Frame Head	Single 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned centrally within the frame reveal.
	Frame Jamb	Single 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned centrally within the frame reveal.
Single-acting, Double-leaf Door assemblies	Frame Head	Single 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned centrally within the frame reveal.
	Frame Jamb	Single 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned centrally within the frame reveal.
	Meeting edges	2No 10 mm wide by 4 mm thick Pyroplex 8500/8512 intumescents positioned 10 mm apart, centrally within the meeting edge of the primary leaf.

Note – See table 1 for leaf size restrictions

44 mm & 54 mm Plywood Faced Doors - Lorient Polyproducts Type 617 intumescents

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Door assemblies	Frame Head	Single 15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned centrally within the frame reveal.
	Frame Jamb	Single 15 mm wide by 4 mm thick Lorient Type 617 intumescent positioned centrally within the frame reveal.
Single-acting, Double-leaf Door assemblies	Frame Head	Single 15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned centrally within the frame reveal.
	Frame Jamb	Single 15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned centrally within the frame reveal.
	Meeting edges	2No 10 mm wide by 4 mm thick Lorient Type 617 intumescents positioned 10 mm apart, centrally within the meeting edge of the primary leaf.

Note – See table 2 for leaf size restrictions

SureFire Classic lock - 44 mm & 54 mm Plywood Faced Doors - Pyroplex Intumescents

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Single-Leaf Latched (Alternative intumescent types are not permitted)	Frame Jamb & Head	2No Pyroplex 8500 intumescents seals, 10 mm wide by 4 mm thick positioned 10 mm apart, centrally within the frame reveal

Note – See table 3 for leaf size restrictions

44 mm MDF Faced Doors - Lorient Polyproducts Type 617 intumescents

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Door assemblies	Frame Head	Single 15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned centrally within the frame reveal.
	Frame Jamb	Single 15 mm wide by 4 mm thick Lorient Type 617 intumescent positioned centrally within the frame reveal.
Single-acting, Double-leaf Door assemblies	Frame Head	Single 15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned centrally within the frame reveal.
	Frame Jamb	Single 15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned centrally within the frame reveal.
	Meeting edges	2No 10 mm wide by 4 mm thick Lorient Type 617 intumescents positioned 10 mm apart, centrally within the meeting edge of the primary leaf.

Note – See table 4 for leaf size restrictions

OVERSIZE 54 mm Plywood Faced Doors - Pyroplex Intumescent

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Door assemblies	Frame Head	2No 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned 10 mm apart, centrally within the frame reveal.
	Frame Jamb	2No 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned 10 mm apart, centrally within the frame reveal.
Single-acting, Double-leaf Door assemblies	Frame Head	2No 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned 10 mm apart, centrally within the frame reveal.
	Frame Jamb	2No 15 mm wide by 4 mm thick Pyroplex 8700 Intumescent positioned 10 mm apart, centrally within the frame reveal.
	Meeting edges	2No 15 mm wide by 4 mm thick Pyroplex 8700 intumescent positioned 10 mm apart, centrally within the meeting edge of the primary leaf.

Note – See table 5 for leaf size restrictions

OVERSIZE 54 mm Plywood Faced Doors - Lorient Polyproducts Type 617 intumescent

Door assembly Configuration	Position	Required Intumescent Protection
Double-acting, Single-leaf assemblies	Frame Head	2No.15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned 10 mm apart, centrally within the frame width.
	Frame Jamb	2No.15 mm wide by 4 mm thick Lorient Type 617 Intumescent positioned 10 mm apart, centrally within the frame width.

Note – See table 6 for leaf size restrictions

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 Intumescent at the same dimensions stated in the above intumescent tables (including those by STS approved in CF5820).

Where alternative CERTIFIRE approved intumescent are utilised in accordance with the interchangeability rule stated above they will comply with the relevant CERTIFIRE certificate of approval for the proposed intumescent seal, unless specifically stated otherwise, in the Intumescent tables above.

All seals to be CERTIFIRE approved to Technical Schedule 35.

Seals may be interrupted at hinge and latch positions. Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescent.

Smoke seals including the STS1009 and NOR710 may be incorporated 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:	Minimum 3 No.	
Type:	Steel lift off or butt hinges.	
Positions:*	Maximum 200 mm from the top of door to top hinge.	
	2nd hinge fitted centrally in the leaf height.	
	Maximum 280 mm from the bottom of door to bottom hinge.	
	Fourth hinge required to doors over 2450 mm high to be positioned centrally between the 2nd and bottom hinge.	
Dimensions:	blade height:	101 mm (+/- 20%)
	Blade width:	30 mm minimum / 35 mm maximum
	Thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	14 mm (+/- 1 mm)
Fixings:	Quantity:	4No. steel screws (minimum)
	Size:	No.8 by 32 mm long.
Intumescent Protection**	1 mm or 2 mm Mono Ammonium Phosphate or Graphite intumescent sheet material	

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

** This specification overrides any requirement for additional intumescent identified in the hinge manufacturer's certification providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material.

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

Where the Certifire approved hinge exceeds the specification given above, the minimum requirement for intumescent protection to the hinges, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the hinge manufacturer's CERTIFIRE certificate shall apply.

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

13. Locks and Latches

Locks and latches are not necessary, but where fitted shall be CE marked for use with 30 minute timber fire doors, in addition to the specification below:

Mortice type, automatic (sprung) latch bolt and knobsets.

Max. case dimension:	165 mm by 89 mm by 16 mm
Max. forend dimension:	235 mm long by 25 mm wide
Max. keep dimension:	170 mm long by 25 mm wide (excluding latch plate lip)
Latchbolt material:	Steel or material with a melting point greater than or equal to 850°C
Cylinder:	Euro profile double cylinder or cylinder / thumbturn CE marked in accordance with BS EN 1303 as suitable for use on FD30 fire resistant assemblies.
Position:	Max. 1000 mm from bottom of door to centreline of the lever handle.
Intumescent: protection*	1 mm or 2 mm thick Mono Ammonium Phosphate or Graphite intumescent sheet material to fully encase the latch body, under the latch forend and keep.
	An increased keep width of 30 mm can be accommodated on the basis that minimum 2 mm thick graphite intumescent sheet material fully encases the latch body and is included under the latch forend and

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.

12a Surface mounted overhead closers

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

12b Transom Mounted Closers

Not permitted

12c Concealed Overhead Closers – Single-Action Only

Door assemblies may incorporate CERTIFIRE approved concealed overhead closers in accordance with the following:

- Concealed overhead closers are to be CERTIFIRE approved for use with single-acting, latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of 30 minutes (code ITT).
- Minimum leaf thickness to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- Intumescent protection to the closer body and arm channel is to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- Closer body and arm positioning is to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- The minimum required frame density and section size are to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- Compliance is required with all additional requirements as stated within the CERTIFIRE certificate of approval for the specified closer.

12d Double-Action Floor Springs

Max. Top pivot dimension	Frame portion: 175 mm long x 29 mm deep x 30 mm wide Door portion: 125 mm long x 16 mm deep x 30 mm wide
Max. bottom strap dimension:	235 mm long x 20 mm deep x 24 mm wide
Material:	Steel
Intumescent: protection*	Intumescent protection to the floor spring, top centre, top strap and bottom strap shall be in accordance with the FD60

	requirements stated within the CERTIFIRE certificate of approval for the specified closer, at either 1 mm or 2 mm thick.
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The use of single-acting floor springs and accessories is not permitted.

15. Ancillary items

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

15a Pull Handles

Screw-fixed, bolt-fixed from the back and back-to-back fixed pull handles of steel, brass, aluminium and nylon coated, are permitted providing any through-bolt fixing is of steel.

15b Protection plates and signage

Surface mounted plastic, steel, aluminium or brass plates are acceptable on the basis that they are:

- < 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.

15c Flushbolts

Max. Flushbolt dimensions:	205 mm high by 22 mm deep by 20 mm wide
Max. keep dimensions:	40 mm by 20 mm
Material:	Steel or brass
Position:	Top and bottom on door edge or face (positioned a minimum of 50 mm from leading edge of the door to the centre of the bolt when fitted on the door face)
Intumescent: protection:	1 mm or 2 mm thick Mono Ammonium Phosphate or Graphite sheet material to fully line the flushbolt recess and beneath the flushbolt keep.

15d Air transfer grilles

No site cutting of apertures permitted as this will invalidate the certification.

Where apertures are pre-cut by Falcon Panel Products Limited, or a CERTIFIRE approved Licensed Door Processor, Intumescent Air Transfer Grilles may be fitted on site by NON-CERTIFIRE approved staff, however, the Intumescent Air Transfer Grilles shall be CERTIFIRE approved for use in 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 assembly.

15e Letter Plates

Where letter plates are fitted, the aperture for a letter plate may be formed on site by NON-CERTIFIRE approved staff, however, the letter plates shall be CERTIFIRE approved for use in FD30 timber based doors. The letter plates must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the letter plate. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the letter plate within the door assembly.

15f Door Viewers

Door viewers may be fitted into the leaf providing the viewer comprises a metal sleeve and an optical glass lens and is not positioned higher than 1650 mm from the threshold. The viewer should have an external diameter of not greater than 12 mm be tightly fitted within the leaf.

The aperture provided for the installation of the viewer shall be lined with 0.5 mm or 1 mm thick Graphite intumescent sheet material.

15g Coat Hooks and Other wholly 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

15h. Dropseals

CERTIFIRE approved dropseals with maximum overall dimensions 35 mm high by 14 mm wide may be recessed to the bottom edge of CF5614 door leaves.

The base and sides of the dropseal recess shall be lined with 1 mm thick Interdens, Mono ammonium Phosphate intumescent sheet material.

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

16. Decorative Grooves

MDF faced door leaves may incorporate grooves with maximum overall dimensions 10 mm wide by 3 mm deep. The grooves may extend to the full height / width of the door leaf and be routed to one or both faces.

The grooves may run both horizontally and vertically and are permitted to intersect on the basis that a minimum 90 mm margin is maintained between grooves and a minimum 57 mm margin is maintained between grooves and the leaf edge.

17. Planted Mouldings

Door leaves may incorporate wholly surface mounted planted mouldings to one or both faces providing the mouldings do not cover more than 25% of the door face and that the application of mouldings does not increase the mass of the door leaf by more than 25%.

The mouldings may be softwood / hardwood (min 510 kg/m³) or MDF (min 700 kg/m³) and of any profile in accordance with the maximum overall dimensions of 70 mm wide by 19 mm thick.

Mouldings are to be bonded to the door leaf face with PU / PVA adhesive and further pinned with 18g by 30 mm long pins.

19. Further Information

Further information regarding the details contained in this data sheet may be obtained from Falcon Panel Products Limited (Tel: 01932 256580).

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

CONSTRUCTIONAL SPECIFICATION FOR CERTIFIRE APPROVED CF5614

Introduction

This document specifies constructional and other details for Falcon Panel Products Limited FD30 doors manufactured by Falcon Panel Products Limited and certified by CERTIFIRE under certificate No. CF5614. Only doors complying with the details of this document may be marked or marketed as CERTIFIRE approved. Any change to, or deviation from, this specification requires the agreement of CERTIFIRE.

General

CERTIFIRE approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully fitted form it is a condition of approval that an agreed Data sheet accompanies the product and is complied with in its entirety. Failure to do so will render the approval invalid and may jeopardise the fire performance of the product.

Scope of Approval

As defined in Certificate of Approval No. CF5614.

1. Leaf and Overpanel Construction

- | | | | |
|-----|------------------------|------------|--|
| 1.1 | Core: | Material: | Falcon Stredor comprising a min 2.1 mm thick Poplar central core complete with a min 18.8 mm thick Spruce lamel core and a min 1.8 mm thick MDF / Plywood facing either side. |
| | | Thickness: | 43 mm (min) |
| | | Density: | 480 kg/m ³ min |
| 1.2 | Internal Framing: | | No internal framing required |
| 1.3 | Constructional facing: | | No additional facing required |
| 1.4 | Decorative finishes: | | Any additional timber veneer or paint finish.
Any additional non-metallic facing material, e.g. plastic laminate up to 2mm applied to the face only (application to the door edge is not permitted) |
| 1.5 | Lippings: | Material: | Hardwood to all four edges as a minimum |
| | | Density: | Minimum 640 kg/m ³ |
| | | Thickness: | Minimum 6 mm
Maximum 25 mm |
| | | Adhesive: | Polyurethane based hot melt adhesive or PVA |
| 1.6 | Moisture content: | | The moisture content of all timber based components shall be 9% (±2%). |



Falcon Panel Products Ltd supports third party certification for the processing, manufacture, installation and maintenance of fire door assemblies.
This document remains the property of Falcon Panel Products Ltd.
It is the responsibility of the reader to ensure that any product manufactured using the evidence within is fit for purpose.
This document details a subset of evidence from an extensive testing regime covering a wide range of products.
Further documentation can be found on our website at <https://www.falconpp.co.uk/doorinfo>

2. **Leaf Dimensions**

- 2.1 Leaf thickness: 43 mm +2 mm / -0 mm (excluding finish)
- 2.2 Leaf height / width: As specified in Certificate of Approval
- 2.3 Configuration: As specified in Certificate of Approval
- 2.4 Meeting edges: Square only

3. **Door Frame**

As specified in Data Sheet

4. **Overpanels / Sidepanels**

- 4.1 Overpanels incorporating a transom rail of min. 44 mm thick, may be included up to a maximum size of 1000 mm high.
- 4.2 Sidepanels incorporating a mullion rail of min. 44 mm thick may be included up to a maximum size of 1000 mm wide.
- 4.3 Overpanels / Sidepanels to be manufactured as per door leaf specification, bedded against beads or the stop of the rebate and be screw fixed at minimum 400 mm centres, maximum 100 mm from each corner through the centre of the panel to a depth of at least 30 mm.
- 4.4 Entire overpanel may be glazed in accordance with point 5 below.
- 4.5 Overpanels without a transom rail are not permitted.

5. **Glazed Fanlights**

Any CERTIFIRE approved glazing systems may be used providing the installation details given in the appropriate certification documents are adhered to.

6. **Glazed Apertures**

- 6.1 One or more glazed openings systems may be included in each leaf.

6.2 Apertures

Height: 2000 mm maximum (at 400 mm wide)

Width: 500 mm maximum (at 1600 mm high)

Area: Maximum total glazed area per leaf of aperture size 0.8 m²

Margins: No closer than 185 mm to the edge of the door leaf and 250 mm between apertures

Lining to aperture: As required by the glazing certificate.



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6.3 Glazing System

As specified in Data Sheet.

7. **Hardware/Intumescent Seals**

As specified in Data Sheet

8. **Labels**

- 8.1 Labels of the CERTIFIRE design referencing Falcon Panel Products Limited, and FD30 fire resistance, to be applied to each approved door leaf in the prescribed position

