



**SYSTEM SUPPLIER
CERTIFICATE OF APPROVAL
No CF 5926**

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
TW17 8AN**

TEL: 07826 515 165

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 Front
Entrance Doorsets**

TECHNICAL SCHEDULE

**TS10 Fire Resisting Door
Assemblies with Non
Metallic Leaves**

**Enhanced Security certified to STS201 under CERTISECURE
certificate CS5120**

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

**Paul Duggan
Certification Manager**



Issued: 27th July 2021
Revised: 21st September 2021
Valid to: 26th July 2026





CERTIFICATE No CF5926
FALCON PANEL PRODUCTS LTD

FALCON PANEL PRODUCTS LTD STREDOR FD30 FRONT ENTRANCE DOORSET

This approval relates to the use of the above doorsets 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 doorsets 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. This approval relates to the product specification only, and is to be used purely as a basis for a Falcon Panel Products Ltd approved fabricator to apply for certification through Warringtonfire Testing and Certification Limited, to supplement their initial type testing and to provide extensions to Warringtonfire Testing and Certification Limited controlled centrally by Falcon Panel Products Ltd.
3. The doorsets 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
4. The doors comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD30).
5. This approval is applicable to complete doorsets only. 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 doorset.
6. This approval is applicable to latched single-acting, single-leaf, glazed and unglazed, open-in and open-out ITT doorsets at leaf dimensions up to those given in Table 1 below:

Doorset configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched	2153 (at 933 wide)	933 (at 2153 high)	2.01

Table 1

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

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8. Glazing shall only be undertaken by the CERTIFIRE approved doorset manufacturer and shall be in accordance with the Data Information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.
9. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.
10. The doorset shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.
11. Labels to the CERTIFIRE design referencing CERTIFIRE and CERTIFIRE Ref. No. CF5926 and FD30 classifications resistance and CERTISECURE, PAS24 D shall be affixed to each doorset in the prescribed position.
12. The doorset 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.

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CF5926 DATA SHEET

1. General

This doorset 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 FD30 doorsets 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 doorset. Doorsets 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-leaf, latched doorsets at leaf dimensions up to those detailed within Table 1 below:

Doorset configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched	2153 (at 933 wide)	933 (at 2153 high)	2.01

Table 1

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

3. Door Frame

To be in accordance with the following specification:

Material	Sapele
Density:	640 kg/m ³ min.
Dimensions:	80 mm by 44 mm complete with a 12 mm deep rebate.
Jointing:	12 mm trench joint glued and screwed with 2 No. 5 mm Ø by 100 mm steel screws.
Door to frame gaps:	Door leaf to frame Perimeter gaps are not to exceed 4 mm. A maximum threshold gap of 8 mm is permitted

4. Overpanels / Sidepanels

Not permitted

5. Glazed Fanlights

Not permitted

6. Supporting Construction

The doorsets 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 doorsets as recommended by the partition manufacturer.

7. Installation

The opening may be lined with 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 architraves are optional with no restrictions on size or fixing.

Doorsets 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.

Trimming of door leaves is not permitted.

8. Glazed Apertures

All apertures to be factory prepared by the CERTIFIRE approved doorset manufacturer. No site cutting of apertures permitted as this will invalidate the certification.

Doors may incorporate one or more vision panels to the maximum sizes stated in the table below

Vision panels where required will be in accordance with the specification below:

Glass Type:	Fireglass UK, 11 mm thick Pyrobelite 9EG (minimum EN356 P1A rating)	
Glazing System:	Sealmaster, 10 mm wide by 4 mm thick Black Glazing Tape (BGT) made from Bio-soluble Alkaline Earth Silicate Fibres, positioned to both sides of the glass between the bead and the glass.	
Aperture Liner:	Not required	
Bead Material:	Sapele	
Bead Description	Splayed bolection bead	
Bead Density:	640kg/m ³ minimum	
Bead Dimensions:	21 mm high by 19 mm wide complete with 6 mm high by 6 mm wide bolection return and a 15° splay.	
Fixings:	16 gauge by 50 mm long steel pins fixed at 25° - 35° to the glass, 50 mm in from the corners, at max 145 mm centres.	
Maximum Pane Dimensions:	Maximum Pane Size:	984 mm high by 224 mm wide
	Maximum Area Per Pane:	0.22 m ²
	Maximum Pane Area Per Leaf:	0.36m ²
Minimum Margins	Minimum 150 mm margin from the perimeter leaf edge Minimum 180 mm margin between apertures	
Setting Blocks:	Where required, hardwood or non-combustible setting blocks will be used to establish the correct edge cover and 3 mm edge clearance all round	

9. Intumescent Seals

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

For doorsets to BS476: Part 22 – classified as FD30 – Timber frames

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

Note – See table 1 for leaf size restrictions

The intumescent seal positioned towards the opening face of the doorset may be fully interrupted at the hinge and keep positions, with the second intumescent strip positioned towards the closing face of the doorset fully interrupted at the keep positions, and partially interrupted at the hinge positions.

Intumescent strips cannot be changed from the specific size type and location specified in the table above.

Combined intumescent and smoke seals are to comply with conditions contained within the relevant CERTIFIRE certificate for the intumescent seal.

10. Door frame Seals

The Norseal seal referenced NOR710 is required to be fitted within the frame jambs and head to all doorsets, mounted on the stop such that the door leaf perimeter edges contact the seal when the door is in the closed position.

The NOR710 seal shall not be interrupted by the hardware.

11. Hinges

Hinges shall be CE marked against EN 1935 for use on 30 minute timber fire doorsets in accordance with the following specification:

Supplier / Manufacturer:	Zoo Hardware Limited	
Description:	Steel Ball bearing butt hinges	
Reference:	ZHSS243RS	
CERTIFIRE No.	CF849	
Number:	Minimum 3No.	
Hinge Positions:*	Top hinge:	200 mm from the top of the door leaf.
	Middle hinge:	Positioned centrally within the leaf height or equispaced between the top and bottom hinge positions
	Bottom hinge:	231 mm from the bottom of the door leaf.
	* The datum in all cases is the centreline of the hinge.	
Dimensions:	Blade height:	102 mm
	Blade width:	31 mm
	Blade thickness:	3 mm (± 0.25 mm)
	Knuckle Ø:	14.5 mm
Fixings:	Quantity:	4 No. steel CSK screws per blade
	Size:	4.2 mm Ø by 30 mm long screws
Intumescent protection:	1 mm thick Interdens, Mono Ammonium Phosphate, intumescent sheet material to all hinge blades to both door leaf and frame.	

12. Locks and Latches

Doorsets shall be fitted with an ERA SureFire Classic Multipoint lock with auto latching functionality to top and bottom locks and a latch bolt to the central lock in accordance with the following specification:

Manufacturer:	ERA	
Description:	2 Hook Multipoint door lock	
Reference:	SureFire Classic	
Case dimensions:	Central:	214 mm high by 60 mm deep by 14 mm wide
	Top & Bottom:	150 mm high by 41 mm deep by 14 mm wide
Forend dimensions:	1634 mm high by 20 mm wide by 3 mm thick	
Latchbolt material:	Steel	
Position:	950 mm from bottom of door to centreline of spindle	
Lock Configuration:	Central:	Engaged latchbolt
	Top & Bottom:	Engaged
Intumescent protection:	All lock cases:	Fully wrapped with a 1 mm thick graphite based intumescent kit referenced Flexifire Universal SureFire kit by Sealed Tight Solutions Ltd.
	Forend:	Forend (above top case and below bottom case only) to be bedded on a 1 mm thick graphite based intumescent kit referenced Flexifire Universal SureFire kit by Sealed Tight Solutions Ltd.
Fixings:	11No. 4.2 mm Ø by 30 mm long CSK steel wood screws	
Cylinder:	Supplier:	ERA
	Description:	Euro profile 3* cylinder / thumbturn
	Reference:	Fortress 3*
	Kitemark:	KM553031
	Overall size:	17 mm by 33 mm by 75 mm
	Fixings:	1No M5 by 45 mm machine screw
Handles:	ERA, Heritage sprung inline, zinc lever / lever handles ref. 1X000. Handles fixed with 2No. M5 by 55 mm machine screws.	

Recessing for locks / forends shall result in a tight fit, allowing for intumescent protection.

The Euro profile cylinder recess in the door face shall follow the shape of the cylinder and result in a tight fit.

ERA SureFire lock keeps are required in accordance with the specification below:

Manufacturer:	ERA	
Description:	Extended strike / keeps	
Reference:	Central Keep:	DKSFCKL24272 / DKSFCKR24271 DKSFCKL23487 / DKSFCKR23488
	Top & Bottom keep:	DKSFHKL24274 / DKSFHKL24273 DKSFHKL23489 / DKSFHKL23490
Keep dimension:	Central:	189.1 mm high by 24 mm wide by 2 mm thick
	Top & Bottom:	151.7 mm high by 24 mm wide by 2 mm thick
Intumescent protection:	All keeps:	Bedded on a 1 mm thick graphite based intumescent kit referenced Flexifire Universal SureFire kit by Sealed Tight Solutions Ltd.
Fixings:	Central Keep:	3No. 3.5 mm Ø by 25 mm CSK steel wood screws
	Top & Bottom keep:	2No. 3.5 mm Ø by 25 mm CSK steel wood screws

Recessing for keeps shall result in a tight fit, allowing for intumescent protection.

13. Self-Closing Devices

All doorsets 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.

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

13a Surface mounted overhead closers

Surface mounted overhead door closers are required in accordance with the specification below:

Manufacturer:	Hoppe
Description:	Surface mounted overhead door closer
Reference:	AR1500
Body dimensions:	248 mm wide x 45 mm high x 53 mm deep
Intumescent protection:	None
Fixings:	Fitted to the face of the doorset with the supplied fixings.

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

13b Transom Mounted Closers

Not permitted

13c Concealed Overhead Closers – Single-Action Only

Not permitted

13d Floor Springs

Not permitted

14. Ancillary items

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

14a Pull Handles

Not permitted

14b Flushbolts & Surface mounted Barrel bolts

Not permitted

14c Air transfer grilles

Not permitted

14d 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.

14e Letterplates

Letterplates where required will be in accordance with the specification below:

Manufacturer:	ERA	
Description	Letterplate with security cowl	
Reference:	Fab & Fix Nu Mail Door Letterplate & Nu Mail Letterplate Security Shield	
Overall dimensions:	Letter plate	75 mm high by 310 mm long
	Letterplate cut out	68 mm high by 280 mm long
	Security Cowl	72 mm high by 354 mm long by 79 mm deep
Position:	Letter plates are to be positioned centrally within the leaf width, at a height of 850 mm from the bottom of the door to the centre line of the letterplate. Where doors are glazed, a minimum margin of 200 mm must be maintained between the aperture cut out and the letter plate cut out,	
Quantity:	Maximum 1No Letter plate shall be fitted to each door leaf.	
Orientation:	Letter plates are to be installed in a horizontal orientation only.	
Intumescent Protection:	40 x 2mm thick Sealed Tight Solutions Ltd graphite wrapped twice around the letter plate channel.	
Fixing:	Letter plates to be fixed into position using the 4No 30 mm by 3.5 mm screws and 2No 48 mm by 4 mm Ø machine bolts supplied in accordance with the manufacturer's instructions.	

14f Door Knockers, Security Chains, 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

14g. Dropseals

NOR810s CERTIFIRE approved dropseals with maximum overall dimensions 20 mm high by 12 mm wide may be utilised. Intumescent protection to the base and sides of the recess is not required.

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

14h Door Viewers

Door viewers where required will be in accordance with the specification below:

Manufacturer:	ERA
Description:	Fab & Fix Steel Spyhole
Overall dimensions:	12 mm external barrel diameter by 44 mm long requiring a maximum 13 mm Ø recess.
Position:	Positioned at maximum 1650 mm from the bottom of the door leaf to the centre of the viewer.
Intumescent protection:	Minimum 0.5 mm thick graphite intumescent sheet material applied to the door viewer body.

The use of alternative door viewers is permitted providing the viewer comprises a metal sleeve and an optical glass lens and is not positioned higher than 1650 mm from the bottom of the door.

Alternative door viewers are to have a maximum external barrel diameter of not greater than 12 mm and be tightly fitted within the recess, complete with 1 mm thick graphite intumescent sheet material to fully line the recess.

15. 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.

16. 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 CF5926

Introduction

This document specifies constructional and other details for Falcon Panel Products Limited FD30 doorsets manufactured by Falcon Panel Products Limited and certified by CERTIFIRE under certificate No. CF5926. 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 complete doorsets. 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 doorset.

Scope of Approval

As defined in Certificate of Approval No. CF5926.

1.1 Leaf Construction – Stredor 44 EV Ply

- | | | | |
|-------|------------------------|-------------|--|
| 1.1.1 | Inner core: | Material: | Minimum 2.1 mm thick Poplar central inner core. |
| | Outer core: | Material: | Minimum 18.8 mm thick Spruce lamels to both sides of central inner core. |
| 1.1.2 | Internal framing: | | No internal framing required |
| 1.1.3 | Constructional facing: | | Plywood, minimum 1.8 mm thick to both sides of core. |
| 1.2.4 | Adhesive: | Facings: | MUF |
| | | Core: | PVAc or MUF |
| 1.1.5 | Thickness: | | 44 mm (+ 10 / - 1 mm) |
| 1.1.6 | Density: | Inner core: | 510 kg/m ³ min |
| | | Outer core: | 480 kg/m ³ min |
| | | Facing: | 510 kg/m ³ min |
| 1.6 | Moisture content: | | The moisture content of all timber based components shall be 9% (±2%). |

2. Decorative finishes

Any additional timber veneer to the door leaf faces or paint finish to the door leaf faces and edges.

3. Lippings

- | | |
|------------|---|
| Material: | Hardwood (solid only) to all four edges minimum |
| Density: | 640 kg/m ³ minimum |
| Thickness: | 10 mm thick |
| Adhesive: | Technomelt PUR 270/7G hot melt |

4. Leaf Dimensions

- 4.1 Leaf thickness: 43 mm +2 mm / -0 mm (excluding finish)
- 4.2 Leaf height / width: As specified in Certificate of Approval
- 4.3 Configuration: As specified in Certificate of Approval
- 4.4 Meeting edges: Not Applicable

5. Door Frame

As specified in Data Sheet

6. Overpanels / Sidepanels

Not permitted.

7. Glazed Fanlights

Not permitted.

8. Glazed Apertures

- 8.1 One or more glazed openings systems may be included in each leaf.
- 8.2 Apertures – As specified in the Data Sheet.

Maximum Pane Dimensions:	Maximum Pane Size:	984 mm high by 224 mm wide
	Maximum Area Per Pane:	0.22 m ²
	Maximum Pane Area Per Leaf:	0.36m ²
Minimum Margins	Minimum 150 mm margin from the perimeter leaf edge Minimum 180 mm margin between apertures	

8.3 Glazing System

As specified in Data Sheet.

9. Hardware/Intumescent Seals

As specified in Data Sheet

10. Labels

- 10.1 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