



CERTIFICATE OF APPROVAL

No CF 808

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 Fax: 01932 230268

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

**FD60 Strebord 54
 ITT Timber Door Blanks**

TECHNICAL SCHEDULE

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

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight
 Chairman
WCL Impartiality Committee



Paul Duggan
 Certification Manager
Warrington Certification Ltd



Issued: 6 January 2011
 Revised: 10 November 2015
 Valid to: 5 January 2016

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CERTIFICATE No CF 808

FALCON PANEL PRODUCTS LTD

Falcon Panel Products Ltd. FD60 Strebord 54 Timber Door Blanks

1. This approval relates to the use of the above doors in providing fire resistance of 60 minutes insulation and 60 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 FD60 doorsets when used in accordance with the provisions therein.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Handbooks (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
3. 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
4. The blanks comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD60).
5. This approval is applicable to both complete doorsets and door leaves. Where the door is not supplied in a completely 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.
6. This approval is applicable to latched and unlatched, single-acting, single and double-leaf, ITT assemblies, at leaf dimensions up to those given in Tables 1, 2 and 3
7. Hardware items, including closing devices and intumescent edge seals, shall be CERTIFIRE approved or otherwise as specified in the data sheet.
8. The doorset shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.

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9. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance

Single-Acting, Single and Double-Leaf, Latched and Unlatched
with Pyroplex FO8700 Graphite Rigid box Seal Intumescent

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents	2517 (at 1234 wide)	1265 (at 2454 high)	3.11
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2146 (at 928 wide)	970 (at 2054 high)	1.99
Single-Acting, Double-Leaf Latched 2No. 15 x 4 mm intumescents to jambs and head + 1No. 15 x 5 mm to top edge (2No. 15 x 4 mm to meeting edge)	3257 (at 936 wide)	1106 (at 2757 high)	3.05

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Table 2. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single and Double-Leaf, Latched and Unlatched
with Intumescent Seals Ltd, Therm-A-Seal Intumescent

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched 2No. 15 x 4 mm intumescents	3242 (at 1035 wide)	1177 (at 2850 high)	3.35
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2189 (at 936 wide)	960 (at 2135 high)	2.05

Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Double-Leaf, Latched and Unlatched
with Lorient 617 or 100P Intumescent

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2249 (at 935 wide)	985 (at 2135 high)	2.10

FALCON PANEL PRODUCTS LTD FD60 TIMBER DOOR ASSEMBLIES

CF 808 DATA SHEET

1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 60 minutes integrity and 60 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 FD 60 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 door.** Door assemblies supplied pre-fitted with components by the prime door manufacturer may be considered to meet the requirements in respect of those items.

2. Door Leaf

This leaf may be used in a latched or unlatched, single-acting, single and double-leaf configuration. The following tables give a maximum door leaf height (mm) and width (mm):

Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance

Single-Acting, Single and Double-Leaf, Latched and Unlatched
with Pyroplex FO8700 Graphite Rigid Box Seal Intumescent

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents	2517 (at 1234 wide)	1265 (at 2454 high)	3.11
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2146 (at 928 wide)	970 (at 2054 high)	1.99
Single-Acting, Double-Leaf Latched 2No. 15 x 4 mm intumescents to jambs and head + 1No. 15 x 5 mm to top edge (2No. 15 x 4 mm to meeting edge)	3257 (at 936 wide)	1106 (at 2757 high)	3.05



Table 2. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single and Double-Leaf, Latched and Unlatched
with Intumescent Seals Ltd, Therm-A-Seal Intumescent

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched 2No. 15 x 4 mm intumescents	3242 (at 1035 wide)	1177 (at 2850 high)	3.35
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2189 (at 936 wide)	960 (at 2135 high)	2.05

Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Double-Leaf, Latched and Unlatched
with Lorient 617 or 100P Intumescent

Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescents (2No. 15 x 4 mm to meeting edge)	2249 (at 935 wide)	985 (at 2135 high)	2.10

(1) Under no circumstances must either the maximum height, maximum width or maximum area be exceeded without separate CERTIFIRE approval.

3. Door Frames

To be any of the following:-

Hardwood*	i) Density: 640 kg/m ³ min ii) Dimensions: 70 mm by 32 mm min. iii) Door Stop: 12 mm deep pinned, screwed or rebated from solid
MDF**	i) Density: 750 kg/m ³ min. ii) Dimensions: 70 mm by 30 mm min. iii) Door Stop: 12 mm deep pinned, screwed or rebated from solid
Jointing:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws
Door to frame gaps:	Not to exceed 4.0mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles*

* Ash shall not be used

** MDF frames are restricted to single-action, single-leaf doorsets only, and shall incorporate Pyroplex FO8700 Graphite Rigid Box intumescent seals.



4. **Overpanels**

Overpanels may be included up to a maximum height of 613 mm and shall include 9 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 13 mm deep rebate at the bottom edge, with a corresponding 20 mm thick rebated hardwood lipping with 32 mm wide by 13 mm deep rebate the top edge of the leaf. Overpanels shall be lipped on all edges.

Meeting edges shall incorporate a 15 x 4 mm Lorient intumescent seal in overpanel rebate and a 25 x 4 mm Lorient intumescent seal in the door rebate, or the same seal specification positioned 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.

Transomed overpanels may be included up to 1000 mm high, with a minimum 40 mm wide solid timber transom rail (as per the frame specification).

5. **Supporting Construction**

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 70mm, providing at least 60 minutes fire resistance.

6. **Installation:**

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

The final lipped door leaves may be trimmed to fit the frame by the following maximum amounts:

Vertical edges (each)	3 mm
Top	3 mm
Bottom	unlimited

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 BWF CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

Fitting to be carried out in accordance with BS 8214, Table 3.

7. **Glazed Openings**

All apertures to be factory prepared by a CERTIFIRE approved Licensed Door Processor. **No site cutting of apertures permitted as this will invalidate the certification.**

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below:

Area: Maximum aperture area of 1.12 m² per leaf
Margins: 120 mm from the perimeter edge, 120 mm between apertures



Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
2201 (at 510 wide)	604 (at 1860 high)	1.21
881 (at 675 wide)	743 (at 801 high)	0.59

The leaf/leaves may incorporate any CERTIFIRE approved glazing system subject to the conditions contained within the relevant certificate (e.g. maximum size associated with glass or system, edge cover, aperture lining requirements, etc.)

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

8. Intumescent Seals

Intumescent Seals are required to be fitted to these doors.

The specification of the seals will be:

Pyroplex FO8700 Graphite Rigid Box Seal Intumescent

Doorset Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf doorsets Latched / Unlatched (max. 2517 mm high or 1265 mm wide – 3.11 m ² max. area)*	Head	2 No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame
	Vertical edges	2 No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame
Single-acting Double-leaf doorsets Latched / Unlatched (max. 2146 mm high or 970 mm wide – 1.99 m ² max. area)	Head	2 No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame
	Hanging edges	2 No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame
	Meeting edges	2No. 15 mm wide by 4mm thick, positioned centrally, 10 mm apart, to primary leaf only
Single-acting Double-leaf doorsets Latched (max. 3257 mm high or 1106 mm wide – 3.05 m ² max. area)	Head	2 No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame
	Top edge	1No. 15 x 4 mm positioned centrally
	Hanging edges	2 No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame
	Meeting edges	2No. 15 mm wide by 4mm thick, positioned centrally, 10 mm apart, to primary leaf only

*MDF frame intumescent specification



Intumescent Seals Ltd, Therm-A-Seal Intumescent

Doorset Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf doorsets Latched (max. 3242 mm high or 1177 mm wide – 3.35 m ² max. area)*	Head	2 No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame
	Vertical edges	2 No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame
Single-acting Double-leaf doorsets Latched / Unlatched (max. 2189 mm high or 960 mm wide – 2.05 m ² max. area)	Head	2 No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame
	Hanging edges	2 No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame
	Meeting edges	2No. 15 mm wide by 4mm thick, positioned centrally, 10 mm apart, to primary leaf only

Lorient 617 or 100P Intumescent

Doorset Configuration	Position	Required Intumescent Protection
Single-acting Double-leaf doorsets Latched / Unlatched (max. 2249 mm high or 985 mm wide – 2.10 m ² max. area)	Head	2 No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 7 mm from front edge of frame
	Hanging edges	2 No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 7 mm from front edge of frame
	Meeting edges	2No. 15 mm wide by 4mm thick, positioned centrally, 10 mm apart, to primary leaf only

Seals may be fitted in the edge of the door or frame reveal.

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 seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

Smoke seals may be included subject to the conditions contained within the relevant CERTIFIRE certificate for the smoke seal.

9. Overhead Closers

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.**



10. Hinges

Hinges shall be CE marked, in addition to the specifications below:

Number:	3 No. per leaf (minimum)
Type:	Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel.
Position*:	200 mm from the head of the leaf and 225-250 mm from the base of the door leaf. 3 rd hinge positioned central in height.
Dimensions:	
i) Height:	98 - 103 mm
ii) Blade width:	31-38 mm
iii) Thickness:	3 mm
iv) Knuckle dia.:	12.5 – 14.5 mm
v) Fixings:	Steel screws, minimum 3 No. (per blade) and no smaller than No. 5 by 30 mm long.
vi) Protection**	Minimum 1 mm Interdens sheet intumescent.

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

** This specification overrides any requirement for additional intumescent identified in the hinge manufacturers certification providing the hinge specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative hinges exceed the specification given above the intumescent protection as identified in the hinge manufactures CERTIFIRE certificate shall apply.

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

11. Latches

Where fitted, latches shall be CE marked, in addition to the specification below:

Mortice type, automatic (sprung) latch bolt, cylinder rim night latches and knobsets.

Max. case dimension	166 mm high x 98 mm deep x 20 mm wide
Max. forend dimension	235 mm high x 25 mm wide
Max. keep dimension	185 mm high x 25 mm wide (excluding latch plate)
Latchbolt material:	Steel or brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*	Tubular latches 1 mm Interdens to body, forend and keep
	Latch/lock size not exceeding:
	• 155 x 22 mm forend
	• 125 x 24 mm keep (exc. Latch plate)
	Latch/lock size exceeding:
	• 155 x 22 mm forend
	• 125 x 24 mm keep (exc. Latch plate)
	2 mm Interdens to body, forend and keep

* This specification overrides any requirement for additional intumescent identified in the lock manufacturers certification providing the lock/latch specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative lock/latch exceed the specification given above the intumescent protection as identified in the lock/latch manufactures CERTIFIRE certificate shall apply.



Any other CERTIFIRE approved lock/latch may be fitted subject to the conditions contained within the relevant certificate.

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

No restriction on type and material of handles.

12. Ancillary items

12a 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.

12b Flushbolts

Max. dimension	200 mm high x 25 mm deep x 19 mm wide
Material:	Steel
Position:	Top and bottom on door edge
Intumescent: protection	1 mm Interdens to base and sides of bolt body and beneath the keep

12c 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.

12d. 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 FD60 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 doorset.

12e. Coat Hooks and Other Surface Mounted Hardware

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

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



13. Further Information

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

Further information regarding the CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).

Further information regarding BWF labelling requirements can be obtained from the British Woodworking Federation (Tel: 0207 637 2646 / 0844 209 2610).

