CERTIFICATE OF APPROVAL
No CF 5229

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

DOORPAC LIMITED

6 Ranskill Court, Sheffield, South Yorkshire, S9 5FZ
Tel: 0114 256 1615

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	TECHNICAL SCHEDULE
Doorpac Limited **FD60 Strebord 54** **ITT Timber Door Blanks**	**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: 6th July 2011
Revised: 3rd December 2019
Valid to: 31st July 2021

CERTIFICATE No CF 5229
DOORPAC LIMITED

Doorpac Limited FD60 Strebord 54 Timber Door Blanks

This approval relates to the use of the above doors in providing fire resistance of 60 minutes Insulation (if incorporating not more than 20% of uninsulating glass) 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 door assemblies when used in accordance with the provisions therein.

1. This certification is provided to the client for its 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. 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 door assemblies when used in accordance with the provisions therein.

4. The door blanks comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals.

5. 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.

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, 3 and 4.

7. 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.

8. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the data sheet.

Signed
E/127

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9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5229 and FD60 classifications resistance shall be affixed to each door in the prescribed position.

10. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.

11. The 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 where appropriate.

Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single-Leaf, Latched and Single-Acting, Double-Leaf, Latched and Unlatched
with Intumescent Seals Ltd, Therm-A-seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. 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 2. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Double-Leaf, Latched and Unlatched
with Lorient type 617 or 100P Intumescents

Door assembly configuration	Max. Height (mm)	Max. 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

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DOORPAC LIMITED

Doorpac Limited FD60 Strebord 54 Timber Door Blanks

Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single and Double-Leaf, Latched and Unlatched
with Pyroplex FO8700 Graphite Rigid box seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. 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 (2No. 15 x 4 mm to meeting edge)	3257 (at 936 wide)	1106 (at 2757 high)	3.05

Table 4. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single-Leaf, with GU Secury locks latched and bolted
with Lorient type 617 Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m^2)
Single-Acting, Single-Leaf Latched & bolted 2No. 15 x 4 mm intumescents	2312 (at 925 wide)	1048 (at 2040 high)	2.14

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

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CF5229 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 FD60 doorsets when used in accordance with the provisions therein.

In recognition of this the leaf carries a prefixed label on the top edge 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 must 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 approval is applicable to single-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed in Tables 1, 2 and 3 below.

Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single-Leaf, Latched and Single-Acting, Double-Leaf, Latched and Unlatched with Intumescent Seals Ltd, Therm-A-seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. 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 2. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Double-Leaf, Latched and Unlatched with Lorient type 617 or 100P Intumescents

Door assembly configuration	Max. Height (mm)	Max. 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

Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single and Double-Leaf, Latched and Unlatched
with Pyroplex FO8700 Graphite Rigid box seal Intumescents

Door assembly configuration	Max. Height (mm)	Max. 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 (2No. 15 x 4 mm to meeting edge)	3257 (at 936 wide)	1106 (at 2757 high)	3.05

Table 4. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single-Leaf, with GU Secury locks latched and bolted
with Lorient type 617 Intumescents

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Area (m^2)
Single-Acting, Single-Leaf Latched & bolted 2No. 15 x 4 mm intumescents	2312 (at 925 wide)	1048 (at 2040 high)	2.14

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

3. Door Frames

To be any of the following: -

Hardwood:
Density: 640 kg/m^3 min (excluding Ash, Beech and Iroko)
Dimensions: 70 mm by 32 mm min.
Door Stop: 12 mm deep pinned, screwed or rebated from solid

MDF*:
Density: 750 kg/m^3 min
Dimensions: 70 mm by 30 mm min.
Door Stop: 12 mm deep pinned, screwed or rebated from solid

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

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 4.0 mm except at the threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles.

4. Overpanels

Flush 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 to the top edge of the leaf. Overpanels shall be lipped on all edges.

Overpanels to be fixed using steel screws at a maximum of 400 mm centres and a maximum 100 mm from each corner, through the centre of the panel to a depth of at least 30mm.

Door to overpanel meeting edges shall incorporate a 15 mm by 4 mm Lorient intumescent seal in overpanel rebate and a 25 mm by 4 mm Lorient intumescent seal in the door rebate, or the same seal specification positioned centrally within the leaf / overpanel thickness where a square (non-rebated) door to overpanel meeting edge is adopted.

Where rebated door to overpanel meeting edges are not incorporated on double-leaf assemblies, timber astragals (min 640 kg/m^3) are required at the junction between the bottom of the overpanel and the top edge of the door.

Transomed overpanels may be included up to 1000 mm high, with a minimum 40 mm wide transom rail

Transomed sidepanels may be included up to 1000 mm wide, with a minimum 40 mm wide mullion rail.

5. Glazed Fanlights and sidelights

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 70mm, providing at least 60 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

7. 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 or nylon 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.

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.

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

- Stiles (each) 3 mm
- Top 3 mm
- Bottom No limit providing bottom lippings are not fitted, 3 mm if bottom lipping is fitted and to be retained, alternatively unlimited if the bottom lipping is fully removed.

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. Glazed Apertures

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

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 of more vision panels to the maximum sizes identified in the table below:
Area: Maximum total glazed area of 1.12 m^2 per leaf
Margins: 120 mm from the perimeter edge, 120 mm between apertures
Lining to aperture: 2 mm Intumescent liner to all apertures.

Maximum Permitted Aperture Dimension		
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

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

9. Intumescent Seals

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

For door assemblies to BS 476: Part 22 – classified as FD60

Intumescent Seals Ltd, Therm-A-Seal intumescents – See Table 1 for size restrictions

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Single-Leaf Latched	Head	2No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame.
	Vertical Edges	2No. 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 Latched / Unlatched	Head	2No. 15 mm wide by 4 mm thick fitted 8-10 mm apart, with first seal 7 mm from front edge of frame.
	Hanging Edges	2No. 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 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.

Lorient Type 617 or 100P intumescents – See Table 2 for size restrictions

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Double-Leaf Latched / Unlatched	Head	2No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 7 mm from front edge of frame.
	Hanging Edges	2No. 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 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.

Pyroplex FO8700 Graphite Rigid Box seal intumescents – See Table 3 for size restrictions

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Single-Leaf Latched / Unlatched **MDF FRAMES ONLY**	Head	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Vertical Edges	2No. 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 Latched / Unlatched	Head	2No. 15 mm wide by 4 mm thick fitted 10-12 mm apart, with first seal 7 mm from front edge of frame.
	Hanging Edges	2No. 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 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.
Single-Acting, Double-Leaf Latched	Head	2No. 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 mm wide by 4 mm thick - centrally
	Hanging Edge	2No. 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 4 mm thick positioned centrally, 10 mm apart, to primary leaf only.

GU Secury locks with Lorient Type 617 intumescents – See Table 4 for size restrictions

Doorset Configuration	Position	Intumescent Specification
Single-Acting, Single-Leaf Latched & bolted	Head	2No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 8 mm from front edge of frame.
	Hanging Edges	2No. 15 mm wide by 4 mm thick fitted 10 mm apart, with first seal 8 mm from front edge of frame.

Seals may be interrupted at the hinge and latch positions. Seals may be fitted in the edge of the door or frame reveal. Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescents seal. All seals to be CERTIFIRE approved.

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

10. 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. 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 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.

CERTIFIRE approved closers for use with timber doors and composite frames (ITC) must be CERTIFIRE approved for this configuration specifically.

10a Surface mounted overhead closers

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

10b Transom Mounted and Concealed Closers

Not permitted

10c Floor Springs

Not permitted

11. Hinges

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire door assemblies.

Number:	Minimum 3No.	
Type:	Steel butt, journal supported fixed or loose pin.	
Position*:	Maximum 200 mm from the top of door to top hinge.	
	Maximum 250 mm from bottom of door to bottom hinge.	
	Middle hinge to be positioned centrally within the leaf height.	
Dimensions:	Blade height:	Minimum 98 mm, maximum 103 mm
	Blade width:	Minimum 31 mm, Maximum 38 mm
	Thickness:	3 mm (+/- 1)
	Knuckle dia.:	Minimum 12.5 mm, maximum 14.5 mm
Fixings:	Minimum 3No. steel screws, minimum No. 5 by 30 mm long.	
Intumescent 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 manufacturer's 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 manufacturers CERTIFIRE certificate shall apply.

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

12. Locks and Latches

Where fitted, locks and latches shall be CE marked for use on 60 minute timber fire doors.

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 unless alternative materials are CERTIFIRE approved for the required application.	
Position:	Max. 1100mm from the bottom of door to centreline of lockcase.	
Intumescent protection*:	Tubular latches:	1 mm Interdens to body, forend and keep.
	Lock / latch **not** exceeding: • 155 x 22 mm forend • 125 x 24 mm keep (exc. latch plate)	1 mm Interdens to body, forend and keep.
	Lock / latch 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 manufacturer's 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 manufacturer's CERTIFIRE certificate shall apply.

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

GU Secury Automatic multipoint lock

Reference:	6-36037-69-0-1 (lock) B-55600-20-4-6 (data/power transfer as required)	
Forend dimension:	1775 mm long by 20 mm wide maximum	
Keep – central:	210 mm long by 22 mm wide maximum	
Keep – top & bottom:	140 mm long by 22 mm wide maximum	
Case – Central:	195 mm by 60 mm by 15 mm deep maximum	
Casing – Top & bottom:	120 mm by 44 mm by 15 mm deep maximum	
Latch bolt material:	Steel or material with a melting point greater than 800^0C	
Operation:	Central latch bolt:	Engaged
	Central lock bolt:	Disengaged
	Top & bottom latch bolts:	Engaged
Intumescent protection:	1 mm thick intumescent, STS DIN kit to fully wrap all lock cases 1 mm thick intumescent STS DIN kit under forend and all keeps. 1 mm thick STS kit fitted under the unit within the frame reveal.	
Frames:	Frames are to be hardwood and have a minimum density of 640 kg/m^3 (excluding Ash, Beech and Iroko), minimum 50 mm wide by 93 mm deep including a 55 mm wide by 18 mm deep rebate.	
Perimeter Intumescents:	See section 9 for GU Secury specific perimeter intumescents.	

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

No restriction on type and material of handle.

NSP Europe 'SMF-Duo' and 'SMF-614' electromechanical sashlocks, readers and handles

Max. case dimension:	154 mm by 100 mm by 23 mm maximum
Max. forend dimension:	204 mm long by 28 mm wide maximum
Max. keep dimension:	130 mm by 32 mm maximum (excluding lip) with dust box.
Operation:	Suitable for use on doors proven suitable in an unlatched configuration only.
Position:	Max. 1100mm from the bottom of door to centreline of lockcase.
Intumescent protection:	2 mm thick Interdens sheet material to all faces and edges of the lockcase, behind the forend and to all faces of the strikeplate and backbox recess within the frame. 2 mm thick graphite intumescent sheet material to be fitted inside the backbox to the vertical rear face.
Lippings:	Door leaves must include lippings in accordance with the construction specification, with a minimum thickness of 6 mm
Frames:	Frames are to be hardwood and have a minimum density of 640 kg/m^3 (excluding Ash, Beech and Iroko).
Perimeter Intumescents:	Perimeter intumescents within the frame are to be positioned centrally within the frame rebate, 10 mm apart in order to by-pass the strike plate by approximately 4 mm wide on each side (with the exception of the latchbolt lead)

Note: The 'SMF-Duo' ANSI electromechanical sashlock, reader and handles combination can be installed with the **card reader to the fire risk or non-fire risk face.**

The 'SMF-614' ANSI electromechanical sashlock, reader and handles combination can be installed with the **card reader to the fire risk face only** (battery pack and thumbturn to the non-fire-risk face only).

The 'SMF' ANSI electromechanical sashlock and '614 reader and handles combination must not be used where a specific direction of fire exposure for the doorset cannot be identified.

13. Ancillary items

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

13a 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.

13b 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 under the keep.

13c 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.

13d 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 door assembly.

13e 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 FD60 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.

13f Door Viewers

Carlisle Brass SWE1000 and SWE1010 door viewers may be fitted into the leaf providing the door viewer is not positioned higher than 1590 mm from the threshold to the centreline of the viewer. The door viewer is to be tightly fitted within the leaf.

13g 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

14. Further Information

Further information regarding the details contained in this data sheet may be obtained from Doorpac Limited (Tel: 0114 256 1615).

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