



CERTIFICATE OF APPROVAL

No CF241A

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

PREMDOR CROSBY LIMITED

Huddersfield Road, Darton, Barnsley, Yorkshire, S75 5JS
Tel: 01226 383434 Fax: 01226 384955

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 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: 21st January 2016
Reissued: 20th January 2021
Valid to: 19th January 2026





CERTIFICATE No CF241A PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED – FD60 Strebord 54 Timber Door Assemblies

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.

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 blanks comprise cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD60).
4. 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.
5. 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 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 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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PREMDOR CROSBY LIMITED – FD60 Strebord 54 Timber Door Assemblies

- Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF241A and FD60 classifications resistance shall be affixed to each door in the prescribed position.
- This approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application when appropriate.

Table 1. 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	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
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 jamb 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, Double-Leaf, Latched and Unlatched with Lorient 617 or 100P Intumescent			
Doorset configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
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

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

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Table 3. 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	Max. Height (mm)	Max. Width (mm)	Max Area (m²)
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 4. Maximum Permitted Door Leaf Dimensions for Fire Performance Single-Acting, Single-Leaf, Latched with Mann McGowan 500P Intumescent			
Doorset configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
Single-Acting, Single-Leaf Latched 2No. 15 x 4 mm intumescents	2381 (at 925 wide)	1079 (at 2041 high)	2.20

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

PREMDOR CROSBY LTD – FD60 STREBORD 54 TIMBER DOOR ASSEMBLIES

CF241A 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, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 60 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 Premdor Crosby 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, ITT door assemblies at leaf dimensions up to those detailed within the tables below:

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)	Max. Area (m²)
Single-Acting, Single-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescent	2517 (at 1234 wide)	1265 (at 2454 high)	3.11
Single-Acting, Double-Leaf Latched / Unlatched 2No. 15 x 4 mm intumescent (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 intumescent to jamb 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

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

Table 2. 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)	Max. Area (m²)
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 Intumescent Seals Ltd, Therm-A-Seal Intumescent			
Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Max. Area (m²)
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 4. Maximum Permitted Door Leaf Dimensions for Fire Performance Single-Acting, Single-Leaf, Latched with Mann McGowan 500P Intumescent			
Doorset configuration	Maximum Height (mm)	Maximum Width (mm)	Max. Area (m²)
Single-Acting, Single-Leaf Latched 2No. 15 x 4 mm intumescents	2381 (at 925 wide)	1079 (at 2041 high)	2.20

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

Double-leaf assemblies are permitted on the basis of square meeting edges only and may incorporate leaves of unequal width providing the smaller leaf is a minimum of 40% of the width of the larger leaf.

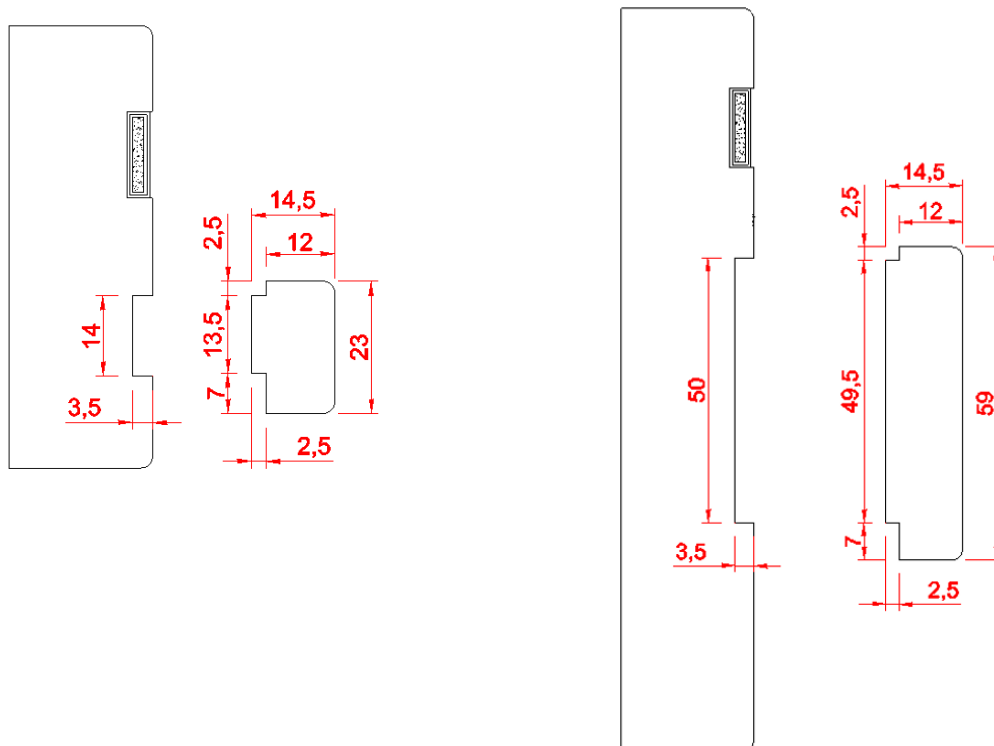
3. Door Frame

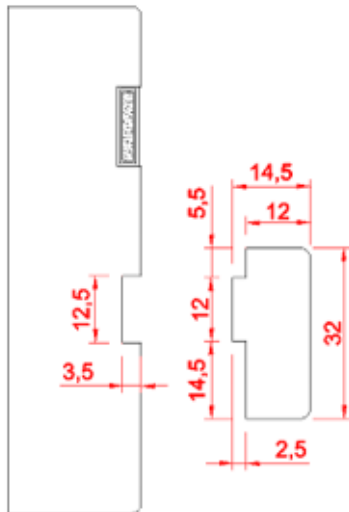
To be any of the following:-

Hardwood (Excluding Ash, Beech & Iroko)	i) Density:	640 kg/m ³ min.
	ii) Dimensions:	70 mm by 32 mm min.
	iii) Door Stop:	Minimum 12 mm deep pinned, screwed or rebated from solid (min stop density 440 kg/m ³). Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
MDF (MDF frames are restricted to single-action, single-leaf doorsets only, and shall incorporate Pyroplex FO8700 Graphite Rigid Box intumescent seals).	i) Density:	750 kg/m ³ minimum.
	ii) Dimensions:	70 mm by 30 mm minimum.
	iii) Door Stop:	Minimum 12 mm deep pinned, screwed or rebated from solid (min stop density 440 kg/m ³). Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
Jointing:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws as follows:	
Door to frame gaps:	Not to exceed 4 mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles	

Alternative Framing – Grooved frames / Tongued Stops

Door assemblies may incorporate tongued in stop variants complete with grooved frame linings as shown in the details below:





The tongued in stop and grooved frame linings are to comply with the material and dimensional requirements stated within the table in section 3 of the Data Sheet.

Intumescent quantity, dimensions, type and position to all be in accordance with the tables in section 9 of the Data Sheet.

4. Overpanels

Flush overpanels may be included up to a maximum height of 613 mm and shall include minimum 9 mm thick hardwood lippings (excluding Ash, Beech & Iroko) and opposing lipping to the leaf head or a rebated 20 mm thick hardwood lipping (excluding Ash, Beech & Iroko) with 22 mm wide by 11 mm deep rebate at the bottom edge, with a corresponding 20 mm thick rebated hardwood lipping (excluding Ash, Beech & Iroko) to the top edge of the leaf. Overpanels shall be lipped on all edges.

Door to overpanel 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 door to overpanel meeting edge is adopted.

Where rebated door to overpanel 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.

Overpanels incorporating a transom rail 40 mm thick (minimum), may be included up to a maximum size of 1000 mm high.

Overpanels 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.

Overpanels will include an identical intumescent specification to the door leaves

Entire overpanel may be glazed in accordance with point 5 below when incorporating a transom.

5. Glazed Fanlights

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

6. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 85 mm, providing at least 60 minutes fire resistance.

Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies in accordance with the following:

- The steel studs supporting the door frame must have adequate timber bracing to ensure that they are stable in a fire.
- The steel stud manufacturer must be consulted for advice on this. Failing this, the steel studs that support the hinges and latch legs of the door frame must be braced floor to ceiling with timber at least 38mm thick by the width of the steel stud or fitted internally within the back of the steel stud.
- The timber bracing must be firmly fixed to the floor and ceiling and the door frame must be firmly fixed to this timber bracing at least 4 points on each leg of the frame with steel fixings at a maximum 600mm centres.

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 45 mm, except in domestic locations (excluding flat entrance doorsets) where a minimum 30 mm wall penetration is permitted. Timber based architraves are optional with no restrictions on material, size or fixing.

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

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

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

- Stiles (each): 3 mm
- Top: No limit providing lippings are not fitted & 3 mm if lippings are fitted
- Bottom: No limit providing lippings are not fitted & 3 mm if lippings are fitted

Doors may be fitted with lippings up to 19 mm thick; to permit the trimming of the lipped edges by a maximum of 16 mm (where 19 mm thick lippings are included). Minimum residual lipping thickness after trimming must be 3 mm minimum.

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 Premdor Crosby 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:
- Area: Maximum total glazed area of 1.12 m² per leaf
- Margins: 120 mm from the perimeter edge, 120 mm between apertures.
- Aperture lining: 2 mm Intumescent liner to aperture
- Setting blocks: The use of setting blocks is not a requirement of this certificate, however where setting blocks are to be utilised to establish the correct edge cover they shall be either hardwood or non-combustible.

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
2201 (at 510 wide)	604 (at 1860 high)	1.12
881 (at 675 wide)	743 (at 801 high)	0.59

- Glazing configuration: Equal glazing in both leaves
Both leaves unglazed
One leaf glazed; one leaf unglazed
Each leaf to have unequal glazing (different dimensions and/or area)

9. 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 FD60

Any CERTIFIRE approved intumescent seal

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	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

Double-leaf doorsets Latched / Unlatched (max. 2189 mm high or 960 mm wide, 2.05 m ² max. area)	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

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)* *MDF frame intumescent specification	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

Mann McGowan, Pyrostrip 500P		
Doorset Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf doorsets Latched (max. 2381 mm high or 1079 mm wide, 2.20 m ² max. area)	Head	2 No. 15 mm wide by 4 mm thick fitted 9-10 mm apart, with first seal 8 mm from front edge of frame
	Vertical edges	2 No. 15 mm wide by 4 mm thick fitted 9-10 mm apart, with first seal 8 mm from front edge of frame

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

Seals may be interrupted at hinge and latch positions.

Intumescent seals shall not be changed from the specific size, type and location specified within the tables above.

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

10. Hinges

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire door assemblies in accordance with the following specification:

Number:	Minimum 3 No. hinges per leaf	
Type:	Steel lift off or butt hinges.	
Positions:*	Top Hinge:	Max 250 mm from top of door to top hinge.
	Middle Hinge:	Middle hinge shall be positioned at any position from mid-height of door to a minimum of 200 mm from top hinge position.
	Bottom.	Max 275 mm from bottom of door to bottom hinge
Dimensions:	blade height:	100 mm (+/- 20%)
	Blade width:	38 mm (+/- 3 mm)
	Thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	14 mm (+/- 1 mm)
Fixings:	Minimum 4No. steel screws, minimum No.8 by 32 mm long	
Intumescent Protection**	Minimum 1 mm thick Interdens (Mono Ammonium Phosphate) or Graphite intumescent sheet materials is required to all hinge blades.	

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

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

Any other CERTIFIRE approved hinge may be fitted, providing the hinge dimension are no greater than 10% in blade width and 25% in blade height from that approved in the table above. Where the Certifire approved hinge exceeds the specification given in the table above, the minimum requirement for intumescent protection to the hinges, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the hinge manufacture's CERTIFIRE certificate shall apply.

11. Locks and Latches

Locks / latches are not necessary. Where fitted locks / latches shall be CE Marked for use on 60 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt.

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*	Latch/lock size not exceeding: <ul style="list-style-type: none"> • 155 x 22 mm forend • 125 x 24 mm keep (exc. Latch plate) 	1 mm Interdens (Mono Ammonium Phosphate) to body, forend and keep
	Latch/lock size exceeding:	2 mm Interdens (Mono

	<ul style="list-style-type: none"> • 155 x 22 mm forend • 125 x 24 mm keep (exc. Latch plate) 	Ammonium Phosphate) to body, forend and keep
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* The lock specification above overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified in the table above, specifically maximum dimensions and material.

Any other CERTIFIRE approved lock/latch may be fitted, providing no lock/strikeplate dimension is more than 25% of that approved in the table above and subject to the conditions contained within the relevant certificate. Where the Certifire approved lock/latch exceeds the specification given in the table above, the minimum requirement for intumescent protection to the locks, latches and strikeplates, by-passing perimeter intumescent, and the material density and thickness for the door and frame elements given in the lock/latch manufacturer's CERTIFIRE certificate shall apply.

- Recessing for locks shall result in a tight fit, allowing for the intumescent protection specified.
- No restriction on type and material of face fixed mechanical lever handles and knobs providing these are wholly surface mounted (with the exception of the spindle and fixing holes) and the spindle hole is a maximum 15 mm in diameter.
- The Euro profile cylinder recess in the door face shall follow the shape of the cylinder and result in a tight fit.
- The use of oval profile cylinders is not permitted.

Espagnolette Locks

Winkhaus AV2, Winkhaus AV2e, Winkhaus STV Thunderbolt, 'Saracen' and 'Fullex SL16', 3 point espagnolette locks are approved on this doorset.

The sides of the latch and hook box bodies must be lined with 2 mm (± 0.2 mm) thick Mann McGowan Pyrostrip 500F or 2 mm Sealmaster Therm-a-flex intumescent sheet.

The latch and hook box forends must be bedded on 2 mm (± 0.2 mm) thick Mann McGowan Pyrostrip 500F or 2 mm Sealmaster Therm-a-flex intumescent sheet.

Additional intumescent in the form of Mann McGowan Pyrostrip 300 or Sealmaster Therm-a-flex, 2 mm, must be fitted under the latch and keep bodies.

Lock keeps may partially interrupt intumescent seals within frame providing a minimum of 6 mm seal remains in place.

Door assemblies may incorporate the Winkhaus ArmorShield cylinder guard in conjunction with espagnolette locks, where required.

Espagnolette locks can be used with:

- Hardwood frames only, with a density of 680kg/m³ minimum.
- Minimum frame overall frame dimensions of 90mm x 57mm minimum, complete with a minimum 25 mm stop depth.
- Latched single-acting, single-leaves only

12. Self-Closing Devices

All doors are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doors kept locked shut such as service access doors. Note: closers with mechanical hold-open mechanisms are not permitted to be used. Building Regulations may identify locations within domestic buildings 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.

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 & Concealed Closers

Not permitted

12c Floor Springs

Not permitted

13. Ancillary items

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

13a 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.

13b 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.

13c 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

13d Flushbolts

Steel Flushbolts	
Max. flushbolt dimension:	200 mm high x 25 mm deep x 19 mm wide
Max. keep dimension:	Maximum 18 mm wide by 32 mm
Material:	All Steel construction required
Position:	Top and bottom on door edge
Intumescent: protection:	2 mm Graphite intumescent sheet material to base of bolt body & beneath keep.

Zinc Alloy Flushbolts	
Max. flushbolt dimension:	152 mm high x 20 mm deep x 19 mm wide
Max. keep dimension:	Maximum 18 mm wide by 32 mm
Material:	Zinc alloy
Position:	Top and bottom on door edge
Intumescent: protection:	2 mm thick Graphite intumescent sheet material to base of bolt body & beneath keep
Perimeter Intumescents:	2No. 15 mm wide by 4 mm thick Lorient Type 617 intumescents positioned centrally within the lock edge of the primary leaf, max 10 mm apart.
Note:	The maximum door leaf dimensions shall comply with Table 2 of section 2 of the Data Sheet.

13e Air transfer grilles

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

Where apertures are pre-cut by Premdor Crosby 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 FD60 timber based doors.

The air transfer grilles must be fitted into apertures prepared in line with this data sheet and any additional requirements stated within 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

13f 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.

13g Dropseals

Door assemblies may incorporate CERTIFIRE approved dropseals with maximum dimensions of 35 mm high by 14 mm wide to the bottom edge of the door leaf.

Alternatively, door assemblies may be fitted with the following dropseals mortised into the bottom edge of the door leaf:

- Norsound NOR810
- Norsound NOR811
- Halspan SLS DRP-100
- Exitex Concealex A8100
- Exitex Concealex A8100 Superior
- Exitex Concealex Superior Variseal
- Exitex Concealex Chronoseal
- Lorient LAS8001si
- Lorient LAS8002si
- Lorient AAS8501
- Fire And Acoustic Seals FAS45

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 within Section 3 of the Data Sheet are to be maintained between the bottom edge of the door leaf and the finished floor level.

13h 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 1500 mm from the threshold.

The door viewer should have an external diameter of not greater than 15 mm be tightly fitted within the leaf. The aperture provided for the installation of the viewer should be lined with intumescent mastic or 1 mm Interdens (Mono Ammonium Phosphate) / graphite intumescent sheet material.

13i Electric Strikes / Electromechanical locks

Not permitted

14. Further Information

Further information regarding the details contained in this data sheet may be obtained from Premdor Crosby Limited (Tel: +44 (0) 1226 383434).

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