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## CERTIFICATE OF APPROVAL

### No CF 240

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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, S75 5JS  
Tel: 01226 383434 Fax: 01226 388808

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

Premdor Crosby Limited  
FD30 PremCORE HD  
ITT Timber Door Blanks

#### 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: 5<sup>th</sup> September 2000  
Re-issued: 13<sup>th</sup> April 2022  
Valid to: 12<sup>th</sup> April 2027

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## CERTIFICATE No CF 240

### PREMDOR CROSBY LIMITED

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#### PREMDOR CROSBY LIMITED - FD30 PremCORE HD

This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 30 minutes integrity as defined in BS 476: Part 22: 1987. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD30 door assemblies when used in accordance with the provisions therein.

1. This certification is provided to the client for their own purposes, and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. The doors are approved on the basis of:
  - i) Initial type testing
  - ii) A design appraisal against TS10
  - iii) Inspection and surveillance of factory production control
  - iv) Certification under a CERTIFIRE approved Quality Management System
  - v) Audit testing in accordance with TS10
3. The door assemblies comprise of cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD30).
4. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a 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 single and double-acting, single and double-leaf, latched and unlatched, glazed and unglazed ITT assemblies at leaf dimensions up to those given in Table 1 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.

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### PREMDOR CROSBY LIMITED - FD30 PremCORE HD

8. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.
9. Labels to the CERTIFIRE design or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF240 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
10. 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.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2700 (at 943 wide)	1165 (at 2129 high)	2.55
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent	2630 (at 943 wide)	1165 (at 2129 high)	2.48
Double-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2540 (at 921 wide)	1086 (at 2040 high)	2.34
Double-Acting, Double-Leaf Latched / Unlatched 10 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2540 (at 921 wide)	1086 (at 2040 high)	2.34
<b>Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched			

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

# PREMDOR CROSBY LIMITED - FD30 PremCORE HD CF 240 DATA SHEET

## 1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD30 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, double-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Table 1 below.

Double-leaf assemblies including unequal sized door leaves are permitted on the assumption that the smaller leaf is no less than 30 % of the width of the larger leaf.

<b>Door assembly configuration</b>	<b>Max. Height (mm)</b>	<b>Max. Width (mm)</b>	<b>Max. Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2700 (at 943 wide)	1165 (at 2129 high)	2.55
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent	2630 (at 943 wide)	1165 (at 2129 high)	2.48
Double-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2540 (at 921 wide)	1086 (at 2040 high)	2.34
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<b>Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched			

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

### 3. Door Frame

To be any of the following:-

Softwood or Hardwood	i) Density:	450 kg/m <sup>3</sup> min.
	ii) Dimensions:	70 mm by 28 mm min.
	iii) Door Stop:	Any size - pinned, screwed, tongue and grooved or rebated from solid (min stop density 450 kg/m <sup>3</sup> ).  Where the stop is rebated from solid the overall frame thickness must be increased by the stop depth to accommodate the required rebate depth.
Engineered Softwood timber	i) Density:	450 kg/m <sup>3</sup> min.
	ii) Dimensions:	70 mm by 28 mm min.
	iii) Door Stop:	Any size - pinned, screwed, tongue and grooved or rebated from solid (min stop density 450 kg/m <sup>3</sup> ).  Where the stop is rebated from solid the overall frame thickness must be increased by the stop depth to accommodate the required rebate depth.
MDF	i) Density:	700 kg/m <sup>3</sup> min.
	ii) Dimensions:	70 mm by 28 mm min.
	iii) Door Stop:	Any size - pinned, screwed, tongue and grooved or rebated from solid (min stop density 700 kg/m <sup>3</sup> ).  Where the stop is rebated from solid the overall frame thickness must be increased by the stop depth to accommodate the required rebate depth.
Frames for use with espagnolette locks	i) Hardwood, of minimum density of 650kg/m <sup>3</sup> or engineered softwood of minimum density of 450kg/m <sup>3</sup> and minimum section of 78 mm by 57 mm (note intumescent specification requirements). ii) single-acting, single-leaf door assemblies only	
Jointing:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws	
Door to frame gaps:	Not to exceed 4 mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles	

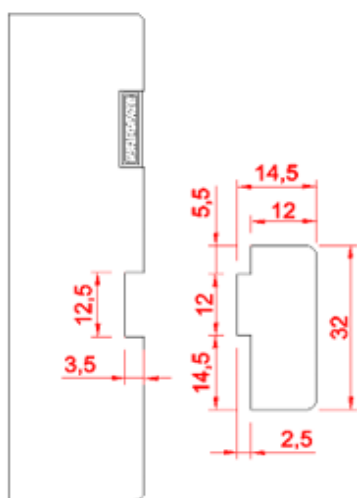
#### **Alternative Framing - Speed Set Plus Framing System**

- A fixed jamb and head profile with pinned MDF stop
- A matched frame section to both jambs and head which can be adjusted to accommodate varying wall/partition widths, between 77mm and 160mm
- The fixed jamb carries the hinged door leaf, and is retained in situ with 8 steel angle brackets (4 on each frame jamb)
- Width adjustment is achieved by turning screws located between the two profiles. This traverses one section beneath the door stop on the other to suit the finite wall thickness
- After adjustment, the moving section is also fixed to the wall but with 8no. folding polypropylene fixing brackets (again 4c on each jamb – opposite the fixed steel brackets on the opposing jamb edge)
- One in place both sets of brackets on the frame are masked by an applied MDF architrave, matched through at the head.

Note: when fitting espagnolette locks please see allowed door frame materials and cross sections in Espagnolette lock section 10.

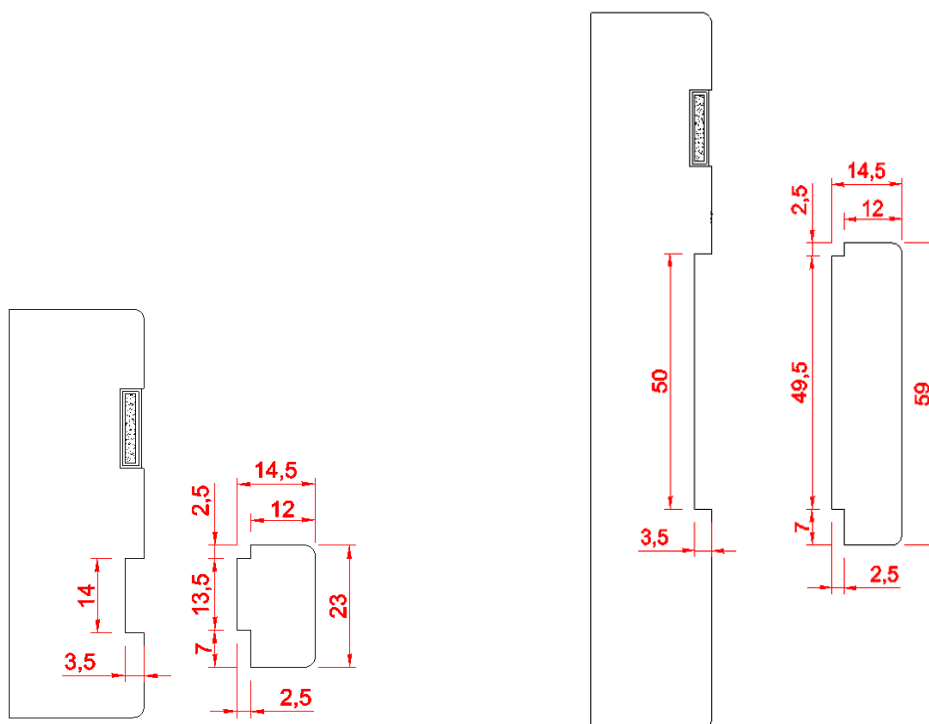
## Alternative Framing – Grooved frames / Tongued Stops

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 and Sidepanels

Flush overpanels may be included up to a maximum height of 1000 mm and shall include 6 mm thick hardwood lippings (minimum) and opposing lipping to the leaf head. The use of rebates to the bottom edge of the flush overpanel and the top edge of the door leaf is not permitted and therefore timber astragals (min 640kg/m<sup>3</sup>) are required at the junction between the bottom of the flush overpanel and the top edge of the doors.

Transomed overpanels may be included up to 1000 mm high, with a minimum 28 mm thick transom rail. Overpanels will include an identical intumescent specification to the door leaves.

Side panels incorporating a mullion rail of minimum 28 mm thick may be included up to a maximum width of 1000mm.

Overpanels / sidepanels to be manufactured as per door leaf specification, bedded against beads or the stop of the rebate and be screw fixed at maximum 400 mm centres, maximum 100 mm from each corner through the centre of the panel to a depth of at least 30 mm.

Entire overpanel may be glazed in accordance with Section 5 below.

## **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 and timber stud supporting constructions of overall minimum thickness 85 mm, providing at least 30 minutes fire resistance.

The door assemblies are also approved to be installed within steel stud partitions as follows:

- The steel studs supporting the door frame must have adequate timber bracing to ensure that they are stable in a fire.
- The wall system 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.
- 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 four points on each leg of the frame with steel fixings at a maximum 600mm centres.

## **7. Installation**

The opening may be lined with softwood or 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 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. 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 25mm thick. Where thicker (greater than 6mm) lippings are fitted, leaves may be trimmed on the lipped edges to leave a minimum residual lipping thickness of 3mm.

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. Care must also be taken to ensure glazed aperture margins (100 mm between apertures and leaf edge) are maintained.

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: See glazing tables below

Margins: 100 mm from the perimeter edge, 80 mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
1181 (at 720 wide)	900 (at 944 high)	0.85
1896 (at 654 wide)	656 (at 1890 high)	1.24

**Option 3**, aperture dimensions are limited to a maximum sight size area of 0.23m<sup>2</sup>. The maximum height of glazed openings for Option 3 doors is 1100 mm.

**Glazing to double leaf assemblies** - The following glazing configurations are approved:

- 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)

**Ladder Frame** - Glazed apertures may use the ladder frame system comprising single glass pane installed within aperture using 23 mm by 20 mm perimeter beads (at 750 kg/m<sup>3</sup>), with 'planted on' beads of similar size and density forming a ladder frame. Ladder beads to incorporate a 'Therm-a-strip' intumescent between bead and glass.

Circular and diamond shaped apertures may be used providing the glazing systems used are CERTIFIRE approved.



## 9. Intumescent Seals

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

### Lorient Polyproducts Ltd 100P Intumescent Seals

Door Assembly Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf Latched / Unlatched	Head	Single 15 mm wide by 4 mm thick
	Vertical edges	Single 15 mm wide by 4 mm thick
Single-acting Double-leaf Latched / Unlatched	Head	Single 15 mm wide by 4 mm thick
	Hanging edges	Single 15 mm wide by 4 mm thick
	Meeting edges (Square only)	2No. 10 mm wide by 4mm thick, positioned centrally, 12 mm apart, to primary leaf only.  Or  Single 10 mm wide by 4 mm thick positioned within the meeting edge of each leaf – offset so seals are not directly opposing  Or  Single 20 mm wide by 4 mm thick positioned centrally to the primary
Double-acting, Single-leaf	Head	Single 15 mm wide by 4 mm thick
	Vertical edges	Single 15 mm wide by 4 mm thick
Double-acting, Double-leaf	Head	Single 15 mm wide by 4 mm thick
	Hanging edges	Single 15 mm wide by 4 mm thick
	Meeting edges	2No. 10 mm wide by 4mm thick, positioned centrally, 12 mm apart, to primary leaf only.  Or  Single 10 mm wide by 4 mm thick positioned within the meeting edge of each leaf – offset so seals are not directly opposing  Or  Single. 20 mm wide by 4 mm thick positioned centrally to the primary

### Door assemblies to BS476: Part 22 – classified as FD30 – Any CERTIFIRE approved seal

Door Assembly Configuration	Max. Height (mm)	Max. Width (mm)	Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm CERTIFIRE approved intumescent seal	2040	926	1.89

### Specific Intumescent Detail when fitted with Espagnolette Locksets

Door Assembly Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf up to 2040 mm high by 926 mm wide <b>(incorporating timber frame with three point espagnolette locking system)</b>	Head	Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504
	Hang edges	Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504
	Leading edges	Single 25 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP2504  OR  Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504 and Single 10 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1004 fitted into the opposing frame reveal

All seals to be CERTIFIRE approved to Technical Schedule 35.

Seals may be interrupted at hinge and latch positions.

Seals may be fitted into door leaf or frame unless specifically stated otherwise

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 30 minute timber fire door assemblies.

Number:	Minimum 3No. hinges per leaf	
Type:	Steel, Phosphor bronze or brass butt, journal supported and pin. Any washers or ball bearings to be of phosphor bronze or steel.	
Positions*:	Top hinge	Maximum 250 mm from the top of the door to the top hinge
	Bottom hinge	Maximum 275 mm from the bottom of door to bottom hinge.
	Middle hinge	May be positioned at any point from the mid-height of the door to a minimum 200mm from the top hinge position.
Dimensions:	Blade height:	100 mm (+20 - 10 mm)
	Blade width:	30 mm (± 3 mm )
	Blade thickness:	3 mm (± 0.5 mm)
	Knuckle dia.:	13 mm (± 1 mm)
Fixings:	4 No. steel screws (min.) no smaller than No.8 by 32 mm long	
Intumescent protection:**	Hardwood lippings: (min 640kg/m <sup>3</sup> )	<b>None required</b> Option to include 1 mm thick Interdens, Mono Ammonium phosphate or Graphite intumescent sheet material also permitted
	Alpi Lippings:	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 (excluding the tolerances stated). 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.

### Speedset/Doorkit Hinge Specifications

Assemblies may be fitted with hinges, CE marked for use on 30 minute fire resisting timber doors with the following specification:

Number:	3 No. hinges per door (minimum)		
Type:	Steel construction, fixed pin.		
Positions*:	Top hinge	Maximum 250 mm from the top of door to top hinge.	
	Bottom hinge	Maximum 250 mm from the bottom of door to bottom hinge.	
	Middle hinge	Middle hinge fitted centrally in the leaf height.	
Dimensions:	Blade height:	Frame:	65 mm (+/- 2 mm)
		Door:	55 mm (+/- 2 mm)
	Blade width:	Frame:	32 mm (+/- 2mm)
		Door:	43mm (+/- 2mm)
	Blade thickness:	Frame:	3 mm (+/- 0.5 mm)
		Door:	2.5 mm to 6.5 mm)
Knuckle dia.:	12.5 mm (+/- 1 mm)		
Fixings:	Minimum 3No. steel screws per blade, minimum 4 mm by 40 mm into door leaf and minimum 4 mm by 25 mm into frame. Door assemblies may utilise an alloy fixing plug to the door leaf, at the centre fixing position of the adjustable hinges.		
Door Frame:	Min. MDF door frame thickness to be 18 mm for all door options		
Intumescent protection:	Hardwood lippings:	None Required.	
	Alpi lippings:	1 mm thick Interdens or Graphite intumescent sheet materials is required to all hinge blades.	

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

## 11. Locks and Latches

Locks / latches are not necessary. When fitted locks / latches shall be CE Marked in accordance with BS EN 12209 or EN 179 for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt.

Option 1	
Max. case dimension:	165 mm high by 98 mm deep by 19 mm wide
Max. forend dimension:	235 mm high by 25 mm wide
Max. keep dimension:	185 mm high by 25 mm wide (excluding latch plate)
Latchbolt material:	Steel or Brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Cylinders:	Euro profile single cylinder, double cylinder or cylinder / thumbturn CE marked in accordance with BS EN 1303 as suitable for use on FD30 fire resistant assemblies may be utilised where 1 mm intumescent sheet material is fitted to both faces of the lock case – minimum dimensions of sheet to be 30 mm wide by full height of lockcase, positioned against the back of the forend.
Intumescent: protection*	Forends / keeps shall be bedded on intumescent mastic OR both side faces of lockcase to be lined with 1 mm thick intumescent sheet material – minimum dimensions of sheet to be 30 mm wide by full height of lockcase, positioned against the back of the forend.

\* 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 manufacture's CERTIFIRE certificate shall apply.

Mortice type, automatic (sprung) latch bolt.

Option 2	
Max. case dimension:	81 mm high by 106 mm deep by 16 mm wide
Max. forend dimension:	118 mm high by 23 mm wide
Max. keep dimension:	89 mm high by 25.5 mm wide (excluding latch plate)
Latchbolt material:	Steel or Brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Cylinders:	Euro profile single cylinder, double cylinder or cylinder / thumbturn CE marked in accordance with BS EN 1303 as suitable for use on FD30 fire resistant assemblies may be utilised.
Intumescent: protection*	1 mm or 2 mm thick Interdens intumescent sheet material to fully wrap the lock case and behind both the forend and keep.

- 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.
- Single cylinder door preparation shall penetrate through only half the thickness of the door leaf.
- The use of oval profile cylinders is not permitted.
- Intumescent door edge seals may be fully interrupted by the forend or keep of lock/latch.

### **Espagnolette Locks**

'Winkhaus AV2 and AV2e and STV', 'Saracen' and 'Fullex SL16' Multi-point espagnolette locks are approved on this door assembly.

The lock mortises must be lined with 2 mm thick Therm-a-flex intumescent sheet and the forend must be bedded on 2 mm thick Therm-a-flex intumescent sheet.

Note: door assemblies incorporating espagnolette locks must incorporate a 25 mm by 4 mm thick Lorient Palusol seal within the closing frame jamb.

Espagnolette locks can be used with:

- Single action, single leaf assemblies only
- Hardwood frames, of minimum density of 650kg/m<sup>3</sup> and minimum section of 78 mm by 57 mm.
- Engineered softwood frames of min. density of 450kg/m<sup>3</sup> & min. section of 78 mm by 57 mm.
- Winkhaus ArmorShield cylinder guard
- 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.
- Single cylinder door preparation shall penetrate through only half the thickness of the door leaf.
- The use of oval profile cylinders is not permitted.

## **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. Building Regulations may identify locations within domestic buildings where self-closing devices are not mandatory. Note: closers with mechanical hold-open mechanisms are not permitted to be used.

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 and Concealed Closers**

Not permitted

### **12c Floor Springs**

Double-acting assemblies are to be fitted with a CERTIFIRE approved floor spring and associated hardware and intumescent protection.

### **12d Jamb mounted Door Springs**

The Astra 3000 series jamb mounted door springs may be used in accordance with the guidance stated within Approved Document B as follows:

- May be used on doors within a dwellinghouse, excluding doors between a dwellinghouse and an integral garage.
- May be used on doors within flats, **excluding flat entrance doors.**
- May be used on doors to cupboards and service ducts which are normally kept locked.
- All other fire doors should be fitted with a self-closing device as previously stated.

Astra 3000 series door springs are to include 94 mm by 250 mm by 1 mm thick Mono Ammonium Phosphate intumescent, wrapped around the door spring body and a 30 mm diameter by 2.5 mm thick graphite end disk (provided with an 8 mm diameter hole to go over the adjustment screw)

## **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, laminate 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 within 50 mm of each corner and no closer than 250 mm spacing on height and width.

### **13b Letter Plates**

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

### **13c Flushbolts**

Not permitted

### **13d 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 fixings are of steel and maximum bolt to bolt centres do not exceed 1000 mm.

A maximum 15 mm diameter recess is permitted for through bolt fixings.

Bolt through fixings will require intumescent protection in the form of a 1 mm thick graphite tube, or Intumescent mastic to the full depth of the recess.

### **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 FD30 timber based doors.

The air transfer grilles must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille within the door assembly.

Lorient Polyproducts LV25 and LV40 air transfer grilles may be fitted into factory prepared apertures lined with 10 mm thick (minimum) hardwood. The aperture is to be lined with intumescent mastic/paste and the grille fixed with minimum 35 mm long screws at minimum 200 mm centres.

### **13f 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 viewer shall 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 shall be lined with 1 mm thick intumescent sheet material.

### 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 uninsulated glazing

### 13h 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

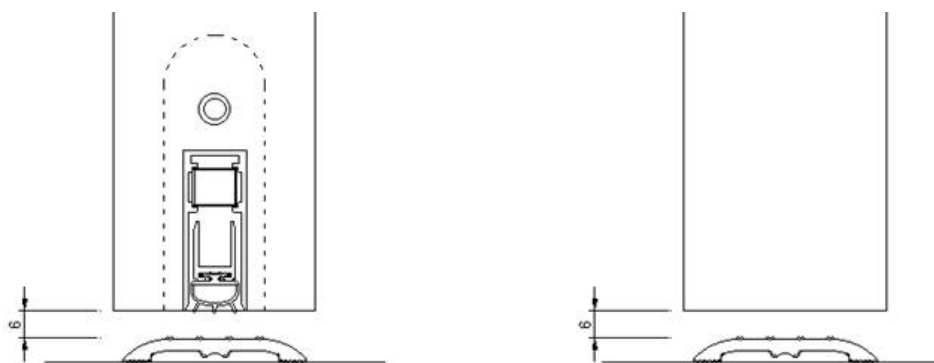
Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

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.

### 13i Thresholds

Metal thresholds may be utilised with or without dropseals in accordance with the CERTIFIRE certificate of approval for the door assembly and the specification requirements below:

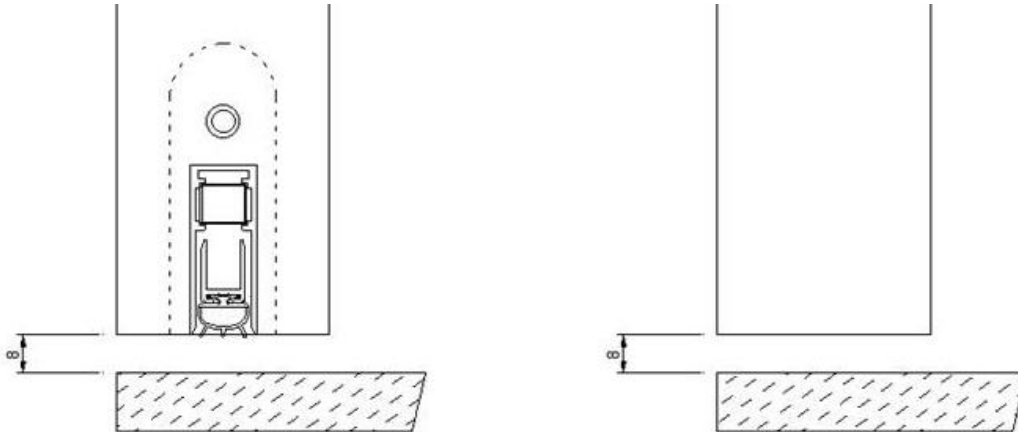
- Mild steel / Stainless steel / Aluminium.
- Maximum dimensions 40 mm wide by 6 mm high.
- Domed (unrebated) profile only.
- Maximum 6 mm gap from the underside of the door to the top of the threshold strip.





Hardwood thresholds may be utilised with or without dropseals in accordance with the CERTIFIRE certificate of approval for the door assembly and the specification requirements below:

- Hardwood of minimum density 640kg/m<sup>3</sup> (excluding Ash, Beech & Iroko).
- Minimum dimensions 77 mm wide by 14 mm high.
- Plain (unrebated) profile only, with option for pencil round top corners.
- Maximum 8 mm gap from the underside of the door to the top of the threshold.



### 13j 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: 01226 383434).

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