CERTIFICATE OF APPROVAL
No CF 195

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

PREMDOR CROSBY LIMITED

Birthwaite Business Park, Huddersfield Road, Darton, Barnsley, S75 5JS, United Kingdom

Tel: 0844 371 5350

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
Premdor Crosby Limited FD30 Flush	**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:	**24th September 1999**
Audit Test Frequency:	**Every 5 years**
Revised:	**28th October 2024**
Valid to:	**9th June 2026**

CERTIFICATE No CF 195
PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED FD30 FLUSH TIMBER DOOR ASSEMBLIES

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 doors comprise of flaxboard/chipboard cored, cellulosic framed 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 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.

5. Glazing shall only be undertaken by the door manufacturer, or a CERTIFIRE approved Licensed Door Processor, and shall be in accordance with the Data Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.

6. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.

7. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.

8. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF195 and FD30 classification for fire resistance shall be affixed to each door in the prescribed position.

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9. This approval is applicable to latched and unlatched, single and double-acting, single and double-leaf, ITT assemblies at leaf dimensions up to those detailed within Table 1 and Table 2 below.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Single-Acting ,Single-Leaf (Latched)	2595 (at 915 width)	1111 (at 2135 height)	2.37
Single-Acting, Single-Leaf (Unlatched)	2107 (at 926 width)	956 (at 2040 height)	1.95
Single-Acting, Double-Leaf (Latched/Unlatched)	2107 (at 926 width)	956 (at 2040 height)	1.95
Double-Acting, Single-Leaf	2346 (at 926 width)	1065 (at 2040 height)	2.17
Double-Acting, Double-Leaf	2346 (at 926 width)	1065 (at 2040 height)	2.17

Table 1
Maximum Door Leaf Dimensions with Lorient Polyproducts Ltd, Type 617 (CF341) Intumescents Seals.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m2)
Single-Acting, Double-Leaf (Latched/Unlatched)	2540 (at 1176 width)	1176 (at 2540 height)	2.99

Table 2
Maximum Door Leaf Dimensions with Pyroplex, Rigid Box (CF355) Intumescents Seals.

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

All timber framed door assembly configurations may incorporate overpanels which include a transom rail as detailed within the Data Sheet.

Both leaves of double-leaf assemblies are to be of identical construction and design.

Secondary leaves of unequal pairs shall be no less than 30% of the width of the primary leaf.

10. 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 where appropriate.

PREMDOR CROSBY LIMITED FD30 FLUSH TIMBER DOOR ASSEMBLIES
CF195 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 uninsulating 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 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 or double-acting, single or double-leaf, latched and unlatched assemblies at leaf dimensions up to those given in Table 1 below. Double-leaf doorsets 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.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Single-Acting ,Single-Leaf (Latched)	2595 (at 915 width)	1111 (at 2135 height)	2.37
Single-Acting, Single-Leaf (Unlatched)	2107 (at 926 width)	956 (at 2040 height)	1.95
Single-Acting, Double-Leaf (Latched/Unlatched)	2107 (at 926 width)	956 (at 2040 height)	1.95
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Table 1
Maximum Door Leaf Dimensions with Lorient Polyproducts Ltd, Type 617 (CF341) Intumescents Seals.

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

All timber framed door assembly configurations may incorporate overpanels which include a transom rail as detailed within the Data Sheet.

Both leaves of double-leaf assemblies are to be of identical construction and design.

Secondary leaves of unequal pairs shall be no less than 30% of the width of the primary leaf.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Single-Acting, Double-Leaf (Latched/Unlatched)	2540 (at 1176 width)	1176 (at 2540 height)	2.99

Table 2
Maximum Door Leaf Dimensions with Pyroplex, Rigid Box (CF355) Intumescents Seals.

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

All timber framed door assembly configurations may incorporate overpanels which include a transom rail as detailed within the Data Sheet.

Both leaves of double-leaf assemblies are to be of identical construction and design.

Secondary leaves of unequal pairs shall be no less than 30% of the width of the primary leaf.

3. Door Frame

To be any of the following:-

Softwood or Hardwood	i) Density:	450 kg/m^3 minimum.
	ii) Dimensions:	67 mm by 28 mm minimum.
	iii) Door Stop:	Minimum 12 mm deep pinned, screwed, or rebated from solid (min stop density 450 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	i) Density:	700 kg/m^3 min.
	ii) Dimensions:	70 mm by 18 mm min.
	iii) Door Stop:	Minimum 12 mm deep pinned, screwed, or rebated from solid (min stop density 700 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	
Door to frame gaps:	Not to exceed 4 mm except at threshold where up to 10 mm is permitted and 3.5 mm at the meeting stiles of double-leaf doorsets. Please note that a reduced threshold gap may be required to comply with smoke leakage requirements	

Alternative Framing - Speedset Framing System

The 'Speed Set' system comprises sixteen polypropylene clips, eight on one face and eight on the opposite face of an MDF door frame. The frame is screw fixed via the clips into the face of the supporting construction. The clips are masked with MDF architraves. The gap between the door frame and the supporting wall must be tightly packed to full depth with mineral fibre.

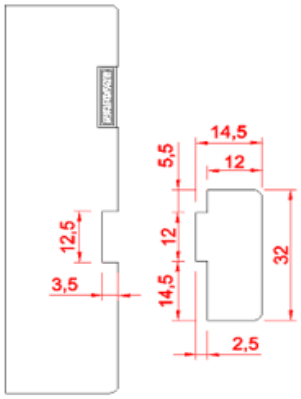
Frame dimensions to be a minimum of 70 mm by 25 mm.

Speedset frames include an intumescent groove, within the frame reveal, set back 24 mm from the opening face of the frame.

Premdor Crosby Ltd., Speedset installation instructions must be adhered to.

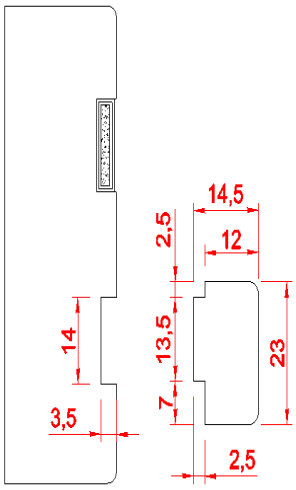
Alternative Framing – Grooved frames / Tongued Stops

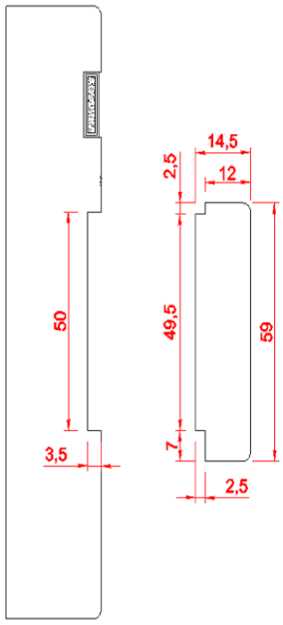
Door assemblies may incorporate tongued in stop variants complete with grooved frame linings as shown in the details below:



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/Sidepanels

Transomed overpanels, manufactured to the same specification as the door leaves, may be included up to 1000 mm high, with a minimum 30 mm thick softwood or hardwood transom rails.

Sidepanels, manufactured to the same specification as the door leaves, may be included up to a maximum width of 1000mm, with a minimum 30 mm thick softwood or hardwood mullion.

Overpanels/sidepanels shall include an identical intumescent specification to the door leaves.

Overpanels / sidepanels to be 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.

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, steel or timber stud of minimum thickness 70 mm, providing at least 30 minutes fire resistance.

Where stud partitions are used these should be suitably constructed to provide a secure fixing for the 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.

Where brick, block, masonry walls are plasterboard faced, the plasterboard adjacent to the door assembly shall be mechanically fixed to ensure that it remains in-situ for the required integrity period.

7. Installation

The opening may be lined with softwood which shall be continuous and of minimum width, 70mm. 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: 3 mm
- Bottom: 3 mm

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

Where door assemblies are required to provide smoke leakage, a maximum 3 mm gap to the threshold is permitted.

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.**

The leaf/leaves may incorporate CERTIFIRE approved glazing systems subject to the conditions contained within the relevant certificate and the maximum aperture dimensions given in the table below (whichever is smaller):

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

Aperture Area: Maximum glazed area of 0.64 m^2 per leaf

Margins: 80 mm between apertures and leaf edge

Number of apertures: Any number of apertures may be included providing the maximum area constraints and the minimum separation requirements are satisfied. In double-leaf doorsets, each leaf must be similarly glazed.

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	**Max. Width (mm)**	**Max. Area (m^2)**
1600 (at 400 wide)	606 (at 1056 high)	0.64

Where required, 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 detailed below.

For door assemblies to BS 476: Part 22 – classified as FD30

Lorient Polyproducts Limited – Type 617 Intumescents (CF341)		
Door Assembly Configuration	**Position**	**Required Intumescent Protection**
Single-acting Single-leaf	Head	1 No. 15 mm by 4 mm thick intumescent seal
	Vertical edges	1 No. 15 mm by 4 mm thick intumescent seal
Single-acting Double-leaf	Head	1 No. 15 mm by 4 mm thick intumescent seal
	Hang edges	1 No. 15 mm by 4 mm thick intumescent seal
	Meeting edges (Square)	2No. 10 mm by 4 mm thick intumescent seals (For square meeting edges strips may be positioned within one leaf) Or 1No. 10 mm by 4 mm thick intumescent seal - each leaf. (Strips to be positioned within the leaves so that they are not opposing).
	Meeting edges (Rebated)	1No. 10 mm by 4 mm thick intumescent seal (to be positioned in the rebate of each leaf).

* See Table 1 for size restrictions

Lorient Polyproducts Limited – Type 617 Intumescents (CF341)		
Door Assembly Configuration	**Position**	**Required Intumescent Protection**
Double-acting Single-leaf doorsets	Head	1 No. 38 mm by 4 mm thick Lorient Type 617
	Vertical edges	1 No. 15 mm by 4 mm thick Lorient Type 617
Double-acting Double-leaf doorsets	Head	1 No. 38 mm by 4 mm thick Lorient Type 617
	Hanging edges	1 No. 15 mm by 4 mm thick Lorient Type 617
	Meeting edges	2No. 10 mm by 4 mm thick Lorient Type 617 (Strips to be positioned within one leaf or one strip in each leaf. Where 1No. strip is fitted in each leaf they must be positioned so that they are not opposing) Or 1No. 20 mm by 4 mm thick Lorient Type 617.

* See Table 1 for size restrictions

Pyroplex Limited – Rigid Box Intumescents (CF355)		
Door Assembly Configuration	**Position**	**Required Intumescent Protection**
Single-acting Double-leaf doorsets Latched / Unlatched	Head	1 No. 15 mm by 4 mm thick Pyroplex Rigid box intumescent (CF355) positioned 15 mm from the opening face of the frame, within the frame reveal.
	Hanging edges	1 No. 15 mm by 4 mm thick Pyroplex Rigid box intumescent (CF355) positioned 15 mm from the opening face of the frame, within the frame reveal.
	Primary Leaf Meeting edge	2No. 10 mm by 4 mm thick Pyroplex Rigid box intumescent (CF355) positioned centrally within the primary leaf thickness, 12 mm apart.

* See Table 2 for size restrictions

All seals are exposed unless stated. The dimensions include the PVC sheaf.

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

Seals may be interrupted at hinge and latch positions.

Latched or unlatched, single acting, single-leaves with maximum leaf dimensions 2040 mm high by 926 mm wide and of a minimum thickness of 42 mm may utilise alternative Intumescents in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved to Technical Schedule 35.

All other door assembly configurations should include the specific intumescent size, type and location as specified within the tables above.

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

11. Grooves

- Doors may be grooved to a max depth of 2.5 mm by a max 12.5 mm wide to one or both faces.
- Grooves may be full height / width, running horizontally / vertically / diagonally / curved or a combination of all of the aforementioned options, and are permitted to run behind glazing bead bolections.
- Grooves may be square, or 'V' shaped on the basis that the maximum overall groove depth and width are not exceeded.
- A 95 mm minimum margin shall be maintained between the door leaf perimeter and grooves that run parallel to the door leaf edges.
- A 30 mm minimum margin shall be maintained between grooves extending into the frame stop / rebate, i.e., full width grooves on the closing face of the door leaf. Please note that this groove arrangement may have a negative impact on the smoke leakage performance and therefore further guidance should be obtained from Premdor Crosby Ltd.
- A 15 mm minimum margin shall be maintained between the glazing bead perimeter and grooves that run parallel to the glazing bead edges.

11. 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:**	None required	

Speedset/Doorkit Hinge Specifications
Assemblies may be fitted with hinges, CE marked for use on fire resisting timber doors with the following specification:

Number:	3 No. hinges per door		
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 (Mono Ammonium Phosphate) or Graphite intumescent sheet materials is required to all hinge blades fitted to the door leaf only.	

Zoo Hardware, Vier VSLHL43R &VSLHR43R Hinges

Number:	Minimum 3No. hinges per leaf	
Type:	Stainless steel, butt hinges.	
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:	101 mm
	Blade width:	29 mm
	Blade thickness:	3 mm
	Knuckle dia.:	14.5 mm
Fixings:	To frame:	4 No. 4.8 mm Ø by 32 mm long steel countersunk screws
	To door leaf:	4 No. 4.3 mm Ø by 50 mm long steel countersunk screws
Intumescent protection:**	1 mm thick Interdens (Mono Ammonium Phosphate) intumescent sheet materials 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.

Double-action hinges are not permitted for use in conjunction with CERTIFIRE approved door assemblies, as they are not a controlled self-closing device, and therefore do not comply with Building regulation requirements.

Projection hinges and rising / falling butt hinges are not permitted for use in conjunction with CERTIFIRE approved door assemblies.

12. Locks and Latches

Locks / Latches are not necessary, however when fitted they shall be CE Marked for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt.

Option 1

Max. case dimensions:	164 mm by 80 mm by 14 mm
Max. forend dimensions:	235 mm long by 25 mm wide.
Latch bolt material:	Steel/brass
Position:	Max 1100 mm from the bottom of the door to centreline of lockcase
Intumescent protection:*	None required.

Option 2

Max. case dimensions:	165 mm by 98 mm by 19 mm
Max. forend dimensions:	235 mm long by 25 mm wide.
Latch bolt material:	Steel/brass
Position:	Max 1100 mm from the bottom of the door to centreline of lockcase
Intumescent protection:*	Forends / keeps should 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.

Option 3 - Tubular latches

Max. case dimensions:	20.5 mm by 76 mm by 20.5 mm
Max. forend dimensions:	57 mm long by 25 mm wide.
Max. keep dimensions:	57 mm high by 20.5 mm wide (excluding lip)
Latch bolt material:	Steel/brass
Position:	Max 1100 mm from the bottom of the door to centreline of lockcase
Intumescent protection:*	None required

Where the meeting stile of paired assemblies incorporates rebates the latch type is restricted to the use of tubular latches only complete with a rebate kit. Tubular latches fitted within rebated meeting stiles with dimensions in excess of those shown above will require intumescent protection as specified for use with Option 2 locks / latches.

* 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.

VingCard Signature and Signature RFID locks
VingCard Signature and Signature RFID locks in accordance with the minimum specification provided below:

Door configuration:	Single-acting, Single-leaves only
Frame:	Softwood, Hardwood or MDF in accordance with section 3 of Data Sheet.
Lippings:	Minimum 6 mm thick with a minimum density of 610 kg/m^3 applied to vertical door edges.
Intumescent Protection:	1 mm Interdens sheet intumescent under the lock forends & keep.

The following points relate to all locks & latches discussed within this section of the Data Sheet:

- 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 16 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.

13. 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 locations where self-closing devices are not mandatory.

The closers shall have a power rating appropriate to the leaf sizes, subject to the closer having the ability to close the door from any angle and against any latch and/ or seals fitted.

The closer shall have the ability to provide a minimum size 3 closing force. 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.

Uninsulated glass shall not be included directly below the body of surface mounted overhead closers.

13a Surface mounted overhead closers

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

13b Concealed Overhead Closers

Concealed overhead closers are to be CERTIFIRE approved for use with single-acting, latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of 30 minutes (code ITT only) in accordance with the specification requirements stated below:.

- Door leaves shall not be less than **44 mm thick.**
- Single--acting assemblies only.
- Intumescent protection to the closer body and arm channel are to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- Closer body and arm positioning to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- The minimum required frame density is to be in accordance with the CERTIFIRE certificate of approval for the specified closer, with the exception of the Arrone AR7383 concealed closer which may be fitted within solid or engineered softwood frames with a minimum density of 430kg/m^3.
- The minimum required frame section size is to be in accordance with the CERTIFIRE certificate of approval for the specified closer.
- Compliance is required with all additional requirements as stated within the CERTIFIRE certificate of approval for the specified closer.
- Door assemblies, complete with CERTIFIRE approved concealed overhead closers will include perimeter intumescents to the frame jambs and head in accordance with the details below:

Certificate No.	Required Perimeter Intumescents
CF195	A single 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 500P to the frame jambs and head positioned 15 mm from the opening face of the frame. Intumescents to meeting stiles to be in accordance with CF195

13c Transom Mounted Closers

Not permitted

13d Floor Springs

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

13e Jamb mounted Door Springs

The Perko (R1/R2) or Perkomatic (R85), Carlisle Brass AA45, Ian Firth Hardware 'IFN13-02' and Astra 3000 series jamb mounted door springs may be used 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.

Notes

1. The use of Perko (R1/R2) or Perkomatic (R85), Carlisle Brass AA45, Ian Firth Hardware IFN13-02 and Astra 3000 series jamb mounted door springs is permitted on the basis that, when the door is latched shut, it will not detract from the fire performance of the door assembly in the event of a fire. The door springs are NOT CERTIFIRE approved, and no claims are made or should be implied or inferred on the ability of the device to close and latch the door or in respect of its mechanical performance or durability.

2. IFN13-02 door springs are to include 1.8 mm thick Fire Force ISM 200 graphite intumescent protection.

3. 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)

14. Ancillary items

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

14a. Protection Plates

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.

14b. Flushbolts

Double-leaf doorsets may be fitted with flushbolts as detailed below: -

Zinc Alloy Flushbolts for use with Lorient Type 617 (CF341) Perimeter Intumescents	
Max. flushbolt dimension:	152 mm high by 20 mm deep by 19 mm wide
Max. keep dimension:	18 mm wide by 32 mm long by 1.2 mm thick
Material:	Zinc alloy
Position:	Top and bottom on door edge
Mode:	Flushbolts must be fully engaged
Intumescent: protection:	2 mm thick Graphite intumescent sheet material to base of bolt body & beneath keep
Perimeter Intumescents:	2No. 10 mm wide by 4 mm thick Lorient Type 617 intumescents positioned centrally within the lock edge of the primary leaf, 8 mm apart.

Steel Flushbolts for use with Lorient Type 617 (CF341) Perimeter Intumescents		
Max. flushbolt dimension:	150 mm high by 19 mm wide, with a 2.6 mm thick face plate with a 35 mm returned top edge. 15 mm deep (fitted into a 25 mm deep rebate)	
Max. keep dimension:	18 mm wide by 32 mm long by 1.2 mm thick	
Material:	All Steel construction required	
Position:	Top and bottom on door edge or face (positioned a minimum of 50 mm from the leading edge of the door to the centre line of the bolt)	
Mode:	Flushbolts must be fully engaged	
Intumescent: protection:	Base of mortice of bolt to be lined with 1 mm thick Therm-A-Flex graphite based intumescent sheet.	
Perimeter Intumescents:	Frame head	1 No. 20 mm by 4 mm thick Lorient Type 617 intumescent seal
	Door – top edge	1 No. 10 mm by 4 mm thick Lorient Type 617 intumescent seal
	Hanging edges	1 No. 15 mm by 4 mm thick Lorient Type 617 intumescent seal
	Meeting edges (Square)	2No. 10 mm by 4 mm thick Lorient Type 617 intumescent seals (positioned 8 mm apart)
	Alternatively, the frame head may be fitted with a 10 mm by 4 mm thick Type 617 with an opposing 20 mm by 4 mm thick Type 617 seal to the top edge of the door.	

Zinc Alloy Flushbolts for use with Pyroplex Rigid Box (CF355) Perimeter Intumescents	
Max. flushbolt dimension:	203 mm high by 37 mm deep by 19 mm wide
Max. keep dimension:	19 mm wide by 33 mm long by 2 mm thick
Material:	Zinc alloy
Position:	Top and bottom on door edge
Mode:	Flushbolts must be fully engaged
Intumescent: protection:	1 mm thick by 15 mm wide Mann McGowan 'Heatseal' graphite intumescent sheet material to the base of bolt recess & beneath keep
Perimeter Intumescents:	2No. 10 mm wide by 4 mm thick Pyroplex Rigid Box intumescents positioned centrally within the lock edge of the primary leaf, 12 mm apart.

14c. 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.

14d. 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,

14e. 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 and lined with minimum 6 mm thick hardwood, 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

14f. 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 shall have an external diameter of not greater than 15 mm and be tightly fitted within the leaf. The aperture provided for the installation of the viewer should be lined with intumescent mastic or 1 mm thick intumescent sheet material.

A second compliant door viewer may be fitted on the basis that 100 mm minimum margins are maintained between viewers.

14g. 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.

14h. Electric Strikes / Electromechanical locks

Not permitted

14i. 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
• Exitex Concealex A8100	• Exitex Concealex A8100 Superior
• Exitex Concealex Superior Variseal	• Exitex Concealex Chronoseal
• Lorient LAS8001si	• Lorient LAS8002si
• Lorient AAS8501	• Halspan SLS DRP-100
• 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.

15. Further Information

Further information regarding the details contained in this data sheet may be obtained from Premdor Crosby Limited (Tel: 0844 3715350).

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