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## CERTIFICATE OF APPROVAL

### No CF 380

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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**  
FD30 Tube Core

**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: 26<sup>th</sup> October 2004  
Reissued; 28<sup>th</sup> March 2022  
Valid to: 27<sup>th</sup> March 2027



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## CERTIFICATE No CF 380

### PREMDOR CROSBY LIMITED

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#### PREMDOR CROSBY LIMITED - FD30 Tube Core

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. 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 door leaves with a 'Tube Core' core within a softwood internal perimeter frame, for use with timber frames (code 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. This approval is applicable to single-acting, single-leaf, latched and unlatched ITT assemblies at leaf dimensions up to those given in Table 1.
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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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. CF 380 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
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 when appropriate.

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched	2040 (at 926 wide)	926 (at 2040 high)	1.89

**Table 1. Maximum Permitted Door Leaf Dimensions**

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



## PREMDOR CROSBY LIMITED FD30 TUBE CORE CF380 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 FD 30 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-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Table 1 below.

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched	2040 (at 926 wide)	926 (at 2040 high)	1.89

**Table 1. Maximum Permitted Door Leaf Dimensions**

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:	440 kg/m <sup>3</sup> minimum.
	ii) Dimensions:	70 mm by 28 mm minimum.
	iii) Door Stop:	Any size – pinned, screwed, or rebated from solid (min stop density 440 kg/m <sup>3</sup> ).
MDF	i) Density:	700 kg/m <sup>3</sup> minimum.
	ii) Dimensions:	70 mm by 18 mm minimum.
	iii) Door Stop:	Any size – pinned, screwed, or rebated from solid (min stop density 700 kg/m <sup>3</sup> ).
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	

### Alternative Framing - Speed Set Framing System

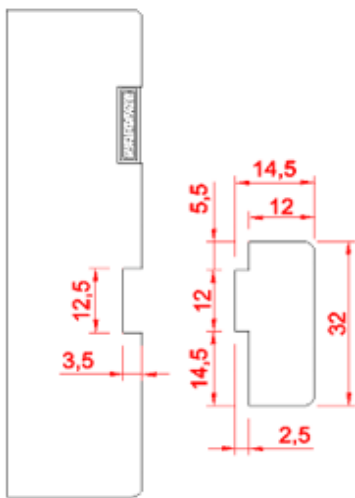
The 'Speed Set' system comprises sixteen polypropylene clips, eight on one face and eight on the opposite face of an MDF door frame. The frame is screw fixed via the clips into the face of the supporting construction. The clips are masked with MDF architraves. The gap between the door frame and the supporting wall must be tightly packed to full depth with mineral fibre, or in accordance with BS8214.

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

Speedset hinges or alternative steel butt hinges shall be utilised in accordance with the specification requirements stated in section 10 of the Data Sheet.

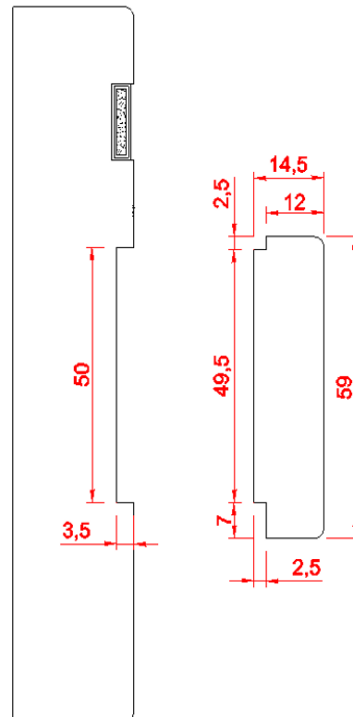
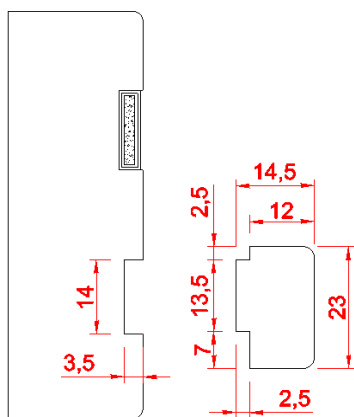
### Alternative Framing – Grooved frames / Tongued Stops

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 are not permitted.

Overpanels may be included in timber framed doorsets up to a maximum height of 1000 mm when used with a transom rail. Overpanels will include an identical intumescent specification to the door leaves and a minimum 30 mm thick transom rail.

Sidepanels may be included in timber framed doorsets up to a maximum width of 1000 mm when used with a mullion. Sidepanels will include an identical intumescent specification to the door leaves and a minimum 30 mm thick mullion.

Overpanels / Sidepanels 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.

Entire overpanel may be glazed in accordance with point 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, timber stud supporting constructions of overall minimum thickness 70 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 4 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, 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. 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: 5 mm

Door leaves may utilise thicker lippings to allow for increased trimming as follows:

- Door leaves may be fitted with lippings up to 19 mm thick
- Leaves may be trimmed on lipped edges by up to 16 mm
- Minimum residual lipping thickness, after trimming, must be 3 mm
- Lipping specification (timber type, density and fixing method) described in the applicable CERTIFIRE certificate must be followed

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 0.31 m<sup>2</sup> per leaf

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

Aperture lining: 6 mm thick hardwood

<b>Maximum Permitted Aperture Dimensions</b>		
<b>Max. Height (mm)</b>	<b>Max. Width (mm)</b>	<b>Max. Area (m<sup>2</sup>)</b>
1410 (at 220 wide)	225 (at 1378 high)	0.31
914 (at 339 wide)	508 (at 610 high)	0.31
1500 (at 150 wide)	150 (at 1500 high)	0.225

## 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 FD30 – Timber & MDF frames**

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting, Single-leaf	Head	Single 15 mm wide by 4 mm thick Lorient Polyproducts Type 617 intumescent seal – positioned 13 mm from the opening face of the frame / door.
	Vertical edges	Single 15 mm wide by 4 mm thick Lorient Polyproducts Type 617 intumescent seal – positioned 13 mm from the opening face of the frame / door.

\*See Table 1 for size restrictions

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 data sheet.

Seals may be interrupted at hinge and latch positions.

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

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

## 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:**	<b>None required</b> Option to include 1 mm thick Interdens, Mono Ammonium phosphate or Graphite intumescent sheet material also permitted	



### 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:	<p>Minimum 3No. steel screws per blade, minimum 4 mm by 40 mm into door leaf and minimum 4 mm by 25 mm into frame.</p> <p>Door assemblies may utilise an alloy fixing plug to the door leaf, at the centre fixing position of the adjustable hinges.</p>		
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.	

\* 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.

## 11. Locks and Latches

Locks / latches are not necessary. When fitted locks / latches shall be CE Marked for use on 30 minute timber fire doors.

Mortice type, automatic (sprung) latch bolt.

Option 1	
Max. case dimension:	Up to 30 mm high by 80 mm deep by 19 mm wide
Max. forend dimension:	60 mm high by 25 mm wide
Max. keep dimension:	60 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:	Not Applicable
Intumescent: protection*	None required

Mortice type, automatic (sprung) latch bolt.

Option 2	
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 Therm-A-Strip or Interdens 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 should be bedded on intumescent mastic OR both side faces of lockcase to be lined with 1 mm thick Therm-A-Strip or Interdens intumescent sheet material – minimum dimensions of sheet to be 30 mm wide by full height of lockcase.

\* 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.

- 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.

## **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**

Not permitted

### **12d 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 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.

#### **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)

### **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, laminate, 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.

#### **13b 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 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 1 mm thick intumescent sheet material.

### **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 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 Flushbolts**

Not permitted

### **13f 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.

Apertures provided within door leaves for the purpose of fitment with Intumescent Air Transfer Grilles should be lined with hardwood with a minimum thickness of 6 mm

### **13g 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 tubular cored doors specifically. Where the letter plate certificate states letter plate shall be fitted within solid cellulosic cored doors only, they are not suitable to be fitted within CF380 doors.

Letter plates approved specially for use within timber based tubular cored doors, 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.

### 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

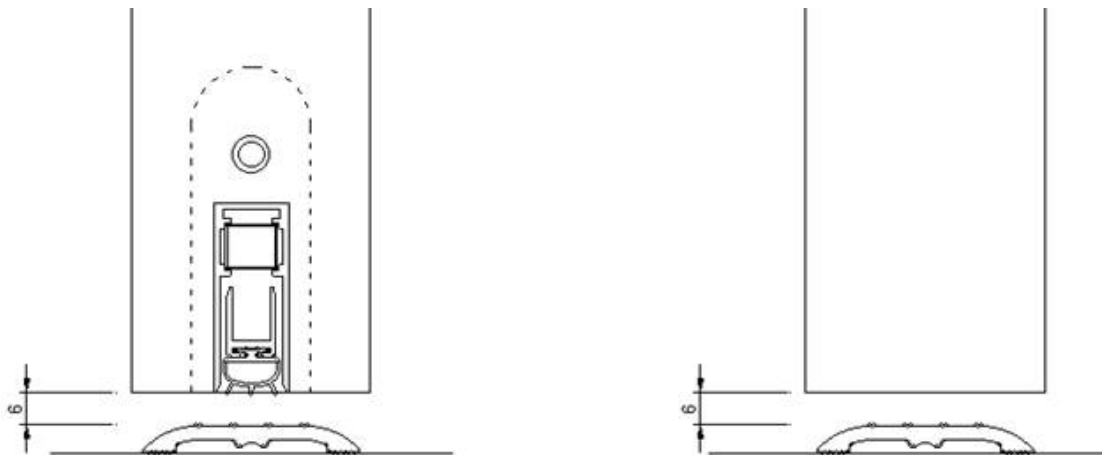
Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

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

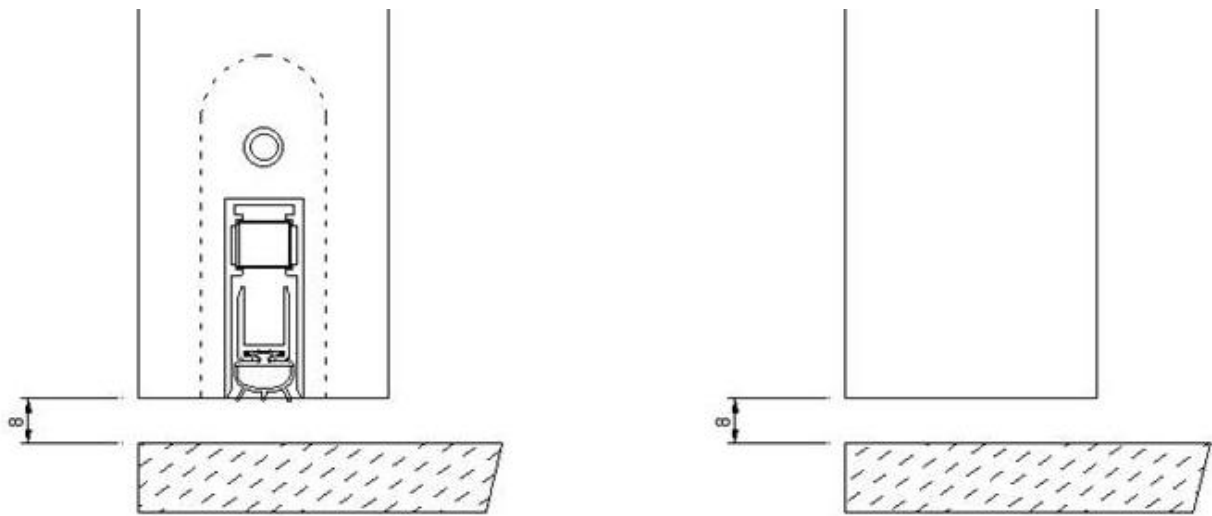
Metal thresholds may be utilised with or without dropseals in accordance with the CERTIFIRE certificate of approval for the door assembly and the specification requirements below:

- 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 (Tel: +44 (0) 1925 646777).