



---

## CERTIFICATE OF APPROVAL

### No CF240A

---

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

## PREMDOR CROSBY LIMITED

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

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

---

#### CERTIFIED PRODUCT

FD30 Strebord 44  
ITT Timber Door Assemblies

#### TECHNICAL SCHEDULE

TS10 Fire Resisting Door  
Assemblies with Non Metallic  
Leaves

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan  
Certification Manager

Issued: 18<sup>th</sup> August 2015  
Reissued: 7<sup>th</sup> September 2020  
Valid to: 6<sup>th</sup> September 2025





---

## CERTIFICATE No CF240A PREMDOR CROSBY LIMITED

---

### PREMDOR CROSBY LIMITED - FD30 Strebord 44 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. 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 its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. The doors are approved on the basis of:
  - i) Initial type testing
  - ii) A design appraisal against TS10
  - iii) Inspection and surveillance of factory production control
  - iv) Certification under a CERTIFIRE approved Quality Management System
  - v) Audit testing in accordance with TS10
3. The doors comprise cellulosic cored leaves in various finishes for use with timber frames or Winkhaus Ecoframe, with intumescent edge seals (ITT & ITC 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 latched and unlatched, single-acting, single and double-leaf, ITT assemblies with or without overpanels, at leaf dimensions up to those given in Tables 1, 2, 3, 4, 5, 6, 7, 8 and 9 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 fire seals, shall be as specified in the Data Sheet.

## CERTIFICATE No CF240A PREMDOR CROSBY LIMITED

### PREMDOR CROSBY LIMITED - FD30 Strebord 44 Timber Door Assemblies

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. CF240A 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.

<b>Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched and Unlatched with and 15x4 mm CERTIFIRE approved intumescent seal			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm CERTIFIRE approved intumescent seal	2040	926	1.89

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



## CERTIFICATE No CF240A PREMDOR CROSBY LIMITED

### PREMDOR CROSBY LIMITED - FD30 Strebord 44 Timber Door Assemblies

<b>Table 2. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched with Lorient 617 or 100P Intumescent			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 10 x 4 mm intumescent	2540 (at 1165 wide)	1165 (at 2540 high)	2.96
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	3111 (at 915 wide)	1016 (at 2800 high)	2.85
Single-Acting, Single-Leaf Latched 15 x 4 mm intumescent	2803 (at 1072 wide)	1113 (at 2700 high)	3.00
Single-Acting, Double-Leaf Latched / Unlatched 10 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2600 (at 1152 wide)	1152 (at 2600 high)	3.00
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent (Single 15 x 4 mm to meeting edge)	2635 (at 999 wide)	1165 (at 2259 high)	2.63

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

## CERTIFICATE No CF240A PREMDOR CROSBY LIMITED

### PREMDOR CROSBY LIMITED - FD30 Strebord 44 Timber Door Assemblies

<b>Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched with Mann McGowan Pyrostrip 100P Intumescent			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 10 x 4 mm intumescent	2187 (at 902 wide)	938 (at 2102 high)	1.97
Single-Acting, Double-Leaf Latched / Unlatched 10 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2463 (at 902 wide)	1057 (at 2102 high)	2.22

<b>Table 4. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched with Pyroplex FO8700 Graphite Rigid box Seal Intumescent			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2195 (at 928 wide)	956 (at 2131 high)	2.04
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2811 (at 915 wide)	1054 (at 2440 high)	2.57
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent (2No. 15 x 4 mm to meeting edge)	2942 (at 1165 wide)	1165 (at 2942 high)	3.43

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

## CERTIFICATE No CF240A PREMDOR CROSBY LIMITED

### PREMDOR CROSBY LIMITED - FD30 Strebord 44 Timber Door Assemblies

<b>Table 5. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched and Unlatched with and 15x4 mm ISL Therm-a-Seal intumescent seal			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-acting, double-Leaf 15 x 4 mm  (active leaf flush bolted, inactive leaf unlatched)	2440	931	2.27

#### Specific Intumescent Detail when fitted with Espagnolette Locks (Option 1)

<b>Table 6. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched with Espagnolette locks and Lorient intumescent seals			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-acting, Single-leaf Latched	2040	926	1.89
<b>Lock types restricted to Winkhaus AV2 and AV2e and STV, Saracen and Fullex SL16 – See lock section for further information.</b>			

#### Specific Intumescent Detail when fitted with Espagnolette Locks (Option 2)

<b>Table 7. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched with Espagnolette locks and Mann McGowan Pyrostrip 500P intumescent seals			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-acting, Single-leaf Latched	2379 (at 926 wide)	1080 (at 2040 high)	2.20
<b>Lock type restricted to Winkhaus Thunderbolt STV TA 192 D2 3 point espagnolette lock – See lock section for further information.</b>			

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



---

## CERTIFICATE No CF240A PREMDOR CROSBY LIMITED

---

**PREMDOR CROSBY LIMITED - FD30 Strebord 44 Timber Door Assemblies**

**Ecoframe – Single point locks / Latches only**

<b>Table 8. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched with <b>Ecoframe and single point locks / latches only</b> , with ISL Therm-A-Seal intumescent seals			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-acting, Single-leaf Latched	2700 (at 944 wide)	1165 (at 2188 high)	2.55

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

Page 7 of 7 Signed  
E/114

Issued: 18<sup>th</sup> August 2015  
Reissued: 7<sup>th</sup> September 2020  
Valid to: 6<sup>th</sup> September 2025

# PREMDOR CROSBY LTD - FD30 STREBORD 44 TIMBER DOOR ASSEMBLIES

## CF240A 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 and double-leaf, latched and unlatched, ITT door assemblies at leaf dimensions up to those detailed within the tables below:

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

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

<b>Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched and Unlatched with 15x4 mm CERTIFIRE approved intumescent seals			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm CERTIFIRE approved intumescent seal	2040 (at 926 wide)	926 (at 2040 high)	1.89

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



<b>Table 2. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single & Double-Leaf, Latched /Unlatched with Lorient 617 or 100P Intumescent			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 10 x 4 mm intumescent	2540 (at 1165 wide)	1165 (at 2540 high)	2.96
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	3111 (at 915 wide)	1016 (at 2800 high)	2.85
Single-Acting, Single-Leaf Latched 15 x 4 mm intumescent	2803 (at 1072 wide)	1113 (at 2700 high)	3.00
Single-Acting, Double-Leaf Latched / Unlatched 10 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2600 (at 1152 wide)	1152 (at 2600 high)	3.00
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent (Single 15 x 4 mm to meeting edge)	2635 (at 999 wide)	1165 (at 2259 high)	2.63

<b>Table 3. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched with Mann McGowan Pyrostrip 100P Intumescent			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 10 x 4 mm intumescent	2187 (at 902 wide)	938 (at 2102 high)	1.97
Single-Acting, Double-Leaf Latched / Unlatched 10 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2463 (at 902 wide)	1057 (at 2102 high)	2.22

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

<b>Table 4. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single and Double-Leaf, Latched and Unlatched with Pyroplex FO8700 Graphite Rigid box Seal Intumescent			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2195 (at 928 wide)	956 (at 2131 high)	2.04
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2811 (at 915 wide)	1054 (at 2440 high)	2.57
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent (2No. 15 x 4 mm to meeting edge)	2942 (at 1165 wide)	1165 (at 2942 high)	3.43

<b>Table 5. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched and Unlatched with and 15x4 mm ISL Therm-a-Seal intumescent seal			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-acting, double-Leaf 15 x 4 mm (active leaf flush bolted, inactive leaf unlatched)	2440	931	2.27

#### **Espagnolette Locks (Option 1)**

<b>Table 6. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched with <b>Espagnolette locks (Option 1)</b> and Lorient intumescent seals			
<b>Door Assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Area (m<sup>2</sup>)</b>
Single-acting, Single-leaf Latched	2040	926	1.89
<b>Lock types restricted to Winkhaus AV2 and AV2e and STV, Saracen and Fullex SL16 – See lock section for further information.</b>			

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

### Espagnolette Locks (Option 2)

<b>Table 7. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched with <b>Espagnolette locks (Option 2)</b> and Mann McGowan Pyrostrip 500P intumescent seals			
Door Assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-acting, Single-leaf Latched	2379 (at 926 wide)	1080 (at 2040 high)	2.20
<b>Lock type restricted to Winkhaus Thunderbolt STV TA 192 D2 3 point espagnolette lock – See lock section for further information.</b>			

### Ecoframe – single point locks / Latches only

<b>Table 8. Maximum Permitted Door Leaf Dimensions for Fire Performance</b> Single-Acting, Single-Leaf, Latched with <b>Ecoframe and single point locks / latches only</b> , with ISL Therm-A-Seal intumescent seals			
Door Assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m <sup>2</sup> )
Single-acting, Single-leaf Latched	2700 (at 944 wide)	1165 (at 2188 high)	2.55

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

### 3. Door Frame

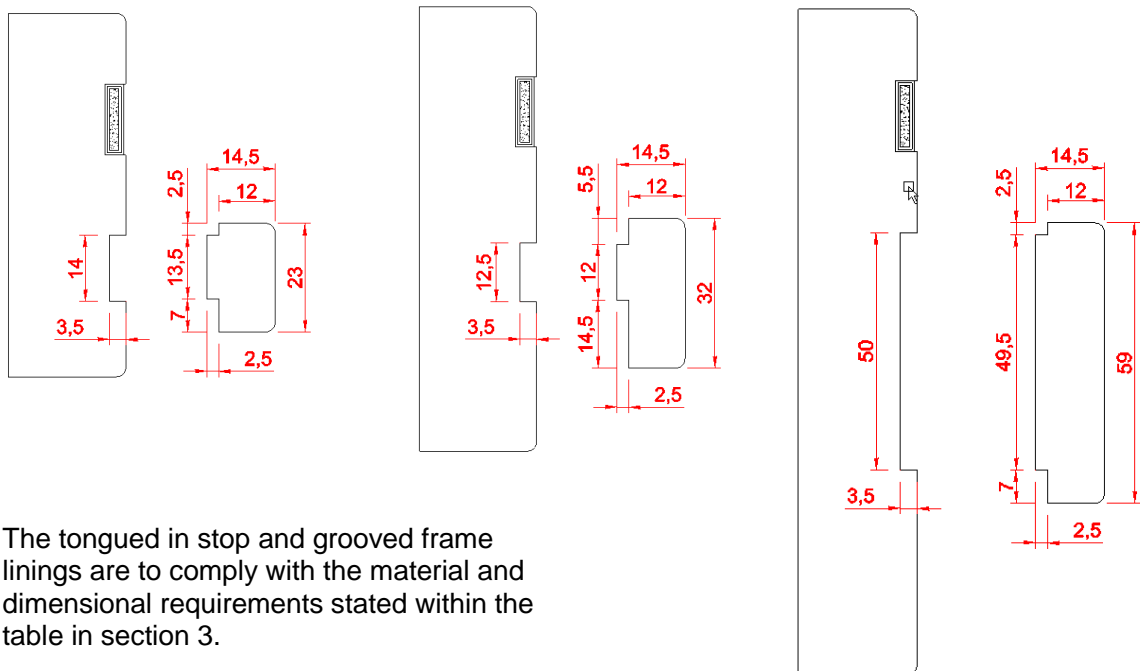
To be any of the following:-

Softwood or Hardwood	i) Density:	440 kg/m <sup>3</sup> min.
	ii) Dimensions:	70 mm by 32 mm min.
	iii) Door Stop:	12 mm deep pinned, screwed or rebated from solid (min stop density 440 kg/m <sup>3</sup> ).  Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
Engineered softwood	i) Density:	430 kg/m <sup>3</sup> minimum.
	ii) Dimensions:	70 mm by 28 mm minimum.
	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 12 mm to accommodate the 12 mm rebate depth.

MDF	i) Density:	750 kg/m <sup>3</sup> min.
	ii) Dimensions:	70 mm by 25 mm min.
	iii) Door Stop:	12 mm deep pinned, screwed or rebated from solid (min stop density 750 kg/m <sup>3</sup> ).  Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
Winkhaus Ecoframe (single-acting, single-leaf doors)	Overall dimensions 60 mm by 70 mm (note intumescent specification requirements specific to Ecoframe in section 10).	
Jointing:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws as follows:	
	MDF Frames	Softwood / Hardwood Frames
	4 mm min gauge by min 40 mm long (Internal only Domestic installations)	Minimum 5 mm gauge by min 70 mm long (opening face) & 100 mm long (closing face)
Door to frame gaps:	Not to exceed 4 mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles	

### Alternative Framing – Grooved frames / Tongued Stops

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



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

### **Alternative Framing - Speedset Framing System**

The 'Speedset' system comprises eight polypropylene clips to be fitted to the closing face of the frame and ten steel clips fitted to the opening face of the frame. The frame is screw fixed via the clips into the face of the supporting construction with 4 mm min gauge by min 40 mm long steel screws.

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 back filled in accordance with BS 8214 accordingly.

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

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

### **4. Overpanels**

Flush overpanels may be included up to a maximum height of 600 mm and shall include 9 mm thick hardwood lippings (minimum) and opposing lipping to the leaf head or a rebated 22 mm thick hardwood lipping with 22 mm wide by 11 mm deep rebate at the bottom edge, with a corresponding 22 mm thick rebated hardwood lipping in the top edge of the leaf. Overpanels shall be lipped on all edges.

Door and overpanel opposing edges shall both incorporate a 15 x 4 mm Lorient intumescent seal in each rebate, or centrally within the leaf /overpanel thickness where a flush meeting edge is adopted.

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

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

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

Overpanels will include an identical intumescent specification to the door leaves

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

### **5. Glazed Fanlights**

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

### **6. Supporting Construction**

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud of minimum thickness 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.

## **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: No limit providing lippings are not fitted, 3 mm if lipping are fitted
- Bottom: No limit providing lippings are not fitted, 3 mm if lipping are fitted

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

Note that the maximum door to frame and door to threshold gaps specified shall not be exceeded, nor shall the door edge fitted with the CERTIFIRE label be trimmed since removal of the label will invalidate the certification.

The labelled edge may be subjected to minor 'shooting-in', providing the label is not damaged or removed in the process, and the amount of material removed does not exceed that stated previously.

## **8. Glazed Apertures**

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

Door may incorporate CERTIFIRE approved glazing systems subject to the conditions contained within the relevant CERTIFIRE certificate (e.g. maximum size associated with glass, system, edge cover, aperture lining requirements, etc.) and the maximum pane dimensions given below (whichever is smaller):

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below on the basis that each leaf of equal width, double-leaf door assemblies must be similarly glazed:

Area: Maximum total glazed area of 1.51 m<sup>2</sup> per leaf

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

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
2085 (at 725 wide)	822 (at 1840 high)	1.51

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

## 9. Recessed solid panels

All recessed panels are to be factory prepared by Premdor Crosby Limited, or a CERTIFIRE approved Licensed Door Processor. No site cutting for recessed panels permitted as this will invalidate the certification.

Panel dimensions: Doors may incorporate one or more recessed panels to the maximum sizes identified in the table below on the basis that each leaf of double-leaf door assemblies must include a similar recessed panel arrangement:

Area: Maximum total glazed area of 1.33 m<sup>2</sup> per leaf

Margins: 100 mm from the top and vertical perimeter edges, 200 mm from the bottom edge and 180 mm between panels.

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m <sup>2</sup> )
1831 (at 728 wide)	728 (at 1831high)	1.33

Panel specification: 44 mm thick Strebord blank recessed to a maximum depth of 10 mm both faces\*, leaving a minimum thickness of 23 mm. Recess shall be faced with 3 mm MDF bonded with PVA adhesive.

Decorative timber beads are optional.

\* Both faces must be recessed equally

## 10. 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**

### Any CERTIFIRE approved intumescent seal

Door assembly configuration	Maximum Height (mm)	Maximum 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

### Lorient 617 or 100P Intumescent Seals

Door assembly configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Latched (max. 2803 mm high or 1113 mm wide - 3.0 m <sup>2</sup> max. area)	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 (max. 2600 mm high or 1152 mm wide - 3.0 m <sup>2</sup> max. area)	Head	Single 10 mm wide by 4 mm thick
	Hanging edges	Single 10 mm wide by 4 mm thick
	Meeting edges	2No. 10 mm wide by 4mm thick, positioned centrally, 12 mm apart, to primary leaf only

### Pyroplex FO8700 Graphite Rigid box Intumescent Seals

Door assembly configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Latched / Unlatched (max. 2195 mm high or 956 mm wide - 2.04 m <sup>2</sup> max. area)	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 (max. 2811 mm high or 1054 mm wide - 2.57 m <sup>2</sup> max. area)	Head	Single 10 mm wide by 4 mm thick
	Hanging edges	Single 10 mm wide by 4 mm thick
	Meeting edges	2No. 10 mm wide by 4mm thick, positioned centrally, 10 mm apart, to primary leaf only
Single-acting, Double-leaf Latched / Unlatched (max. 2942 mm high or 1165 mm wide - 3.43 m <sup>2</sup> max. area)	Head	Single 15 mm wide by 4 mm thick
	Hanging edges	Single 15 mm wide by 4 mm thick
	Meeting edges	2No. 15 mm wide by 4mm thick, positioned centrally, 10 mm apart, to primary leaf only



### Mann McGowan Pyrostrip 100P Intumescent Seals

Door assembly configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf Latched / Unlatched (max. 2187 mm high or 938 mm wide – 1.97 m <sup>2</sup> max. area)	Head	Single 10 mm wide by 4 mm thick
	Vertical edges	Single 10 mm wide by 4 mm thick
Single-acting, Double-leaf Latched / Unlatched (max. 2463 mm high or 1057 mm wide – 2.22 m <sup>2</sup> max. area)	Head	Single 10 mm wide by 4 mm thick
	Hanging edges	Single 10 mm wide by 4 mm thick
	Meeting edges	Single 10 mm wide by 4 mm thick fitted centrally to in both leaves

### Specific Intumescent Detail for Winkhaus Ecoframe – Single point locks / latches

Single-acting, Single-leaf  <b>Winkhaus Ecoframe</b>  Max 2700 mm high or 1165 mm wide subject to max area of 2.55m <sup>2</sup>	Frame Head	1No. 15 mm by 4 mm thick plus 1No. 10 mm by 3 mm ISL Therm-A-Seal  Or 1No. 13mm by 1mm unsheathed, and 1No. 10mm by 3mm sheathed ISL Therm-A-Seal
	Frame Jamb	1No. 15 mm by 4 mm thick plus 1No. 10 mm by 3 mm ISL Therm-A-Seal  Or 1No. 13mm by 1mm unsheathed, and 1No. 10mm by 3mm sheathed ISL Therm-A-Seal

### Specific Intumescent Detail when fitted with Espagnolette Locks (Option 1)

Single-acting, Single-leaf Latched Max 2040 mm high by 926 mm wide	Frame Head	1No. 15 mm by 4 mm thick Lorient LP1504
	Hanging Jamb	1No. 15 mm by 4 mm thick Lorient LP1504
	Lock Jamb	1No. 25 mm by 4 mm thick Lorient LP2504,  OR 1No. 15 mm by 4 mm Lorient LP1504 plus 1No. 10 mm by 4 mm Lorient LP1004 fitted into frame reveal
<b>Lock types restricted to Winkhaus AV2 and AV2e and STV, Saracen and Fullex SL16 – See lock section for further information.</b>		

### Specific Intumescent Detail when fitted with Espagnolette Locks (Option 2)

Single-acting, Single-leaf Latched  Max 2379 mm high (at 926 mm wide) or Max 1080 mm wide (at 2040 mm high)	Frame Head	1No. 15 mm by 4 mm thick Mann McGowan Pyrostrip 500P, positioned 15 mm from the opening face of the frame plus 1No abutting 10 mm by 4 mm thick Mann McGowan Pyrostrip 500P, positioned 30 mm from the opening face of the frame
	Frame Jambs	1No. 15 mm by 4 mm thick Mann McGowan Pyrostrip 500P, positioned 15 mm from the opening face of the frame plus 1No abutting 10 mm by 4 mm thick Mann McGowan Pyrostrip 500P, positioned 30 mm from the opening face of the frame
<b>Lock type restricted to Winkhaus Thunderbolt STV TA 192 D2 3 point espagnolette lock – See lock section for further information.</b>		

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

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 43 mm may utilise alternative intumescents of the same dimensions as stated above, 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.

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

## 11. Hinges

Hinges shall be CE marked against EN 1935 for use on 30 minute timber fire door assemblies.

Number:	Minimum 3 No. per leaf
Type:	Steel lift off or butt hinges.
Positions:*	Maximum 200 mm from the top of door to top hinge. Maximum 250 mm from the bottom of door to bottom hinge. Middle hinge fitted centrally in the leaf height.
Dimensions:	i) Blade height: 100 mm (+/- 20%) ii) Blade width: 31 - 38 mm iii) Thickness: 3 mm (+/- 0.5 mm) iv) Knuckle dia.: 13.5 mm (+/- 1 mm)
Fixings:	Minimum 3No. steel screws, minimum No.5 by 30 mm long.
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.

### 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:*	Maximum 250 mm from the top of door to top hinge. Maximum 250 mm from the bottom of door to bottom hinge. Middle hinge fitted centrally in the leaf height.
Dimensions:	i) Blade height: Frame blade 65 mm (+/- 2 mm) Door blade 55 mm (+/- 2 mm) ii) Blade width: Frame blade 32 mm (+/- 2mm) Door blade 43mm (+/- 2mm) iii) Thickness: Frame blade 3 mm (+/- 0.5 mm) Door blade 2.5 mm to 6.5 mm iv) 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.

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

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

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 above.

Where the Certifire approved hinge exceeds the specification given 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.

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

For Winkhaus Ecoframe option: 3 off. Winkhaus Part No. 2837373 hinges to be used, positioned at 100 from top and bottom edges and central stile height.

Intumescent door edge seals may be fully interrupted by the hinges.

## 12. Locks and Latches

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

Mortice type, automatic (sprung) latch bolt.

Max. case dimension:	166 mm high x 98 mm deep x 20 mm wide	
Max. forend dimension:	235 mm high x 25 mm wide	
Max. keep dimension:	185 mm high x 25 mm wide (excluding latch plate)	
Latchbolt material:	Steel or Brass	
Position:	Max. 1100 mm from bottom of door to centreline of lockcase	
Intumescent: protection*	Tubular latches	Not required
	Mortice Locks	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.

\* This specification overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified above, specifically maximum dimensions and material.

Any other CERTIFIRE approved lock/latch may be fitted, providing no lock/strikeplate dimension is more than 25% of that approved above and subject to the conditions contained within the relevant certificate.

Where the CERTIFIRE approved lock/latch exceeds the specification given above, the minimum requirement for intumescent protection to the locks, latches and strikeplates, by-passing perimeter intumescents, and the material density and thickness for the door and frame elements given in the lock/latch manufacturers CERTIFIRE certificate shall apply.

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

No restriction on type and material of handles.

Intumescent door edge seals may be fully interrupted by the keep and or forend.

### Espagnolette Locks – Option 1

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

The lock mortises shall be fully lined with 2 mm thick Therm-A-Flex intumescent sheet material and the forend shall be bedded on 2 mm thick Therm-a-flex intumescent sheet material.

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:

- Hardwood, density 650kg/m<sup>3</sup> minimum, section 78mmx57mm minimum
- Engineered softwood timber density 450kg/m<sup>3</sup> minimum, section 78mmx75mm minimum
- Winkhaus Ecoframe.
- Latched single-acting, single-leaves only

## **Espagnolette Locks – Option 2**

Winkhaus Thunderbolt STV TA 192 D2 3 point espagnolette locks are approved on this doorset.

The 3No lock mortises shall be lined with 1 mm thick Therm-A-Strip intumescent sheet material to the major lock faces, with additional Sealmaster Fireglaze sealant around the case edge of the central lock case.

The 3No forends and hook / strike boxes shall be bedded on 1 mm thick Therm-A-Strip intumescent sheet material.

Note: door assemblies incorporating The Winkhaus Thunderbolt STV TA 192 D2 3 point espagnolette lock in accordance with option 2 shall incorporate 1No 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 500P intumescent seal, positioned 15 mm from the opening face of the door leaf within the frame reveal, complete with 1No abutting 10 mm wide by 4 mm thick Mann McGowan Pyrostrip 500P intumescent seal, positioned 30 mm from the opening face of the door leaf within the frame reveal:

Winkhaus Thunderbolt STV TA 192 D2 locks can be used with:

- Engineered softwood timber density 430kg/m<sup>3</sup> minimum, section 79 mm by 56 mm minimum with a 17 mm deep rebate.
- Latched single-acting, single-leaves only.

## **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 buildings where self-closing devices are not mandatory.

The closers shall have a power rating appropriate to the leaf sizes, subject to the closer having the ability to close the door from any angle and against any latch and/ or seals fitted. The closer shall have the ability to provide size 3 closing force. Where doors are unlatched a minimum size 3 shall be maintained.

Closers shall be CE Marked against EN 1154 and categorised as grade 1 – suitable for use on fire / smoke door assemblies.

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

### **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 Transom Mounted Closers**

Not permitted

### **13c 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<sup>3</sup>.
- 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 intumescent to the frame jambs and head in accordance with the details below:

Certificate No.	Required Perimeter Intumescents
<b>CF240A</b>	<p>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, complete with a single 10 mm wide by 4 mm thick Mann McGowan Pyrostrip 500P to the frame jambs and head positioned 30 mm from the opening face of the frame.</p> <p>Intumescents to meeting stiles to be in accordance with CF240A</p>

#### 13d Floor Springs

Not permitted

#### 13d 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)

## **14. Ancillary items**

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

### 14a Protection plates and signage

Surface mounted plastic, steel, aluminium or brass plates are acceptable on the basis that they are:

- < 2mm thick
- Do not occupy more than 20% of the door leaf in total, or exceed 500mm in height for kickplates and 300mm for mid-plates, whichever is the smaller.
- Do not wrap around the vertical edges, and on the closing face do not extend beneath the door stops (generally 40-50mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally screws may be used.

### 14b Flushbolts – Square meeting edges only

Max. flushbolt dimension:	150 mm high x 25 mm deep x 19 mm wide	
Max. keep dimension:	Maximum 18 mm wide by 32 mm	
Material:	All Steel construction required	
Position:	Top and bottom on door edge	
Intumescent: protection:	Hardwood lippings:	1 mm Interdens, Mono Ammonium Phosphate intumescent sheet material to base & sides of bolt body & beneath keep
	Alpi lippings:	1 mm Graphite intumescent sheet material to base of bolt body & beneath keep

### 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 fixing is of steel.



#### 14d 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 they shall be lined with hardwood of a minimum 10 mm thickness, complete with intumescent mastic / paste and shall be installed using minimum 35 mm long screws at maximum 200 mm centres.

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 this data sheet and any additional requirements stated within the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille

#### 14e 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.

Royde & Tucker CF255 CERTIFIRE approved letter plates may be incorporated into the door leaf providing they are installed in accordance with the manufacturer's instructions.

Alternatively Lorient Polyproducts Limited intumescent fire resistance letter plates may be incorporated into the door leaf providing they are installed in accordance with the manufacturer's instructions.

#### 14f 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

#### 14g Electric Strikes / Electro mechanical locks

Not permitted

#### 14h Door Viewers

Door viewers may be fitted into the leaf providing the viewer comprises a metal sleeve and an optical glass lens and is not positioned higher than 1500 mm from the threshold.

The door viewer should have an external diameter of not greater than 15 mm be tightly fitted within the leaf. The aperture provided for the installation of the viewer should be lined with intumescent mastic.



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

Door assemblies may be fitted with the UAP FCSWAL door viewer complete with intumescent mastic or 1 mm thick Therm-A-Seal intumescent sheet material when positioned no higher than 1500 mm from the bottom of the threshold.

Door assemblies may be fitted with the IAN FIRTH B1653 door viewer without intumescent protection, or with optional intumescent mastic or 1 mm thick Therm-A-Seal intumescent sheet material when positioned no higher than 1500 mm from the bottom of the threshold.

#### 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
- 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.

#### 14j Thresholds

Door assemblies may incorporate aluminium threshold strips with overall maximum dimensions 6 mm high by 40 mm wide subject to a maximum 8 mm gap between the bottom edge of the doorset and the top of the threshold strip.

### **15. Further Information**

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

Further information regarding the CERTIFIRE certification and other approved products can be obtained from Exova (UK) Limited trading as Warrington Certification (Tel: +44 (0) 1925 646777)