



CERTIFICATE OF APPROVAL

No CF625

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:

CERTIFIED PRODUCT

Premdor Crosby Limited
FD30 PremCORE Lite (L)

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: 1st September 2008
Revised: 12th May 2021
Valid to: 26th November 2023





CERTIFICATE No CF625 PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD30 PremCORE Lite (L)

This approval relates to the use of the above doorsets in 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. Subject to the undermentioned conditions, the doors will meet the relevant requirements of BS 5588 for FD30 doorsets 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 at the frequency specified in TS10
3. The doors comprise door leaves with a chipboard core, for use with timber frames, with intumescent edge seals (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 and double-acting, single and double-leaf, latched and unlatched ITT doorsets at leaf dimensions up to those given in Table 1 below.
6. Glazing shall only be undertaken by the door manufacturer, or a CERTIFIRE approved Licensed Door Processor, and shall be in accordance with the Data Information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.
7. Hardware items, including closing devices and intumescent edge seals, shall be as specified in the Data Sheet.
8. The doorsets shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.



CERTIFICATE No CF625 PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD30 PremCORE Lite (L)

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2126 (at 981 wide)	1010 (at 1981 high)	2.0
Single-Acting, Double-Leaf Latched / Unlatched	2126 (at 981 wide)	1010 (at 1981 high)	2.0
Double-acting, Single-leaf	2126 (at 981 wide)	1010 (at 1981 high)	2.0
Double-acting, Double-leaf	2126 (at 981 wide)	1010 (at 1981 high)	2.0

Table 1.

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

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, CERTIFIRE and CERTIFIRE Ref. No. CF625 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 and mark together with the CERTIFIRE Certificate number and application where appropriate.

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E/114

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CF625 DATA SHEET PREMDOR CROSBY LIMITED FD30 PremCORE Lite (L)

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 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 leaf may be used in single or double-acting, single or double-leaf, latched and unlatched ITT doorsets at leaf dimensions up to those given in Table 1. 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	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched	2126 (at 981 wide)	1010 (at 1981 high)	2.0
Single-Acting, Double-Leaf Latched / Unlatched	2126 (at 981 wide)	1010 (at 1981 high)	2.0
Double-acting, Single-leaf	2126 (at 981 wide)	1010 (at 1981 high)	2.0
Double-acting, Double-leaf	2126 (at 981 wide)	1010 (at 1981 high)	2.0

Table 1.

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

3. Door Frame

To be any of the following:-

Softwood or Hardwood	i) Density:	450 kg/m ³ 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 430 kg/m ³). Where the stop is rebated from solid the overall frame thickness must be increased by the required amount to accommodate the 12 mm rebate depth.
MDF	i) Density:	700 kg/m ³ min.
	ii) Dimensions:	70 mm by 25 mm min.
	iii) Door Stop:	Any size - pinned, screwed, tongue and grooved or rebated from solid.
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	

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.

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

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

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 28 mm thick transom rail.

Mullioned sidepanels, manufactured to the same specification as the door leaves, may be included up to 1000 mm wide, with a minimum 28 mm thick mullion.

Overpanels/Sidepanels shall be fixed using steel screws at a maximum of 400 mm centres and a Max. of 100 mm from each corner, through the centre of the panel to a depth of at least 30 mm.

5. Glazed Fanlights and Sidelights

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

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 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 lippings are fitted
Note: care must be taken when trimming the top of the leaf to ensure that the CERTIFIRE label is not removed or damaged)
- Bottom: No limit providing lippings are not fitted, 3 mm if lippings are fitted

Doors may be fitted with lippings up to 25mm thick. Where thicker (greater than 6mm) lippings are fitted, leaves may be trimmed on the lipped edges to leave a minimum of 3mm ensuring the CERTIFIRE is not removed or damaged).

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.

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

Door to frame gaps: Not to exceed 4 mm except at threshold where up to 10 mm is permitted.
Meeting stile gap not to exceed 3.5 mm

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 pane dimensions given below (whichever is smaller):

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes / area identified in the table below providing the minimum margins are maintained.

Area: Maximum total glazed area of 1.08 m² per leaf

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

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
1800 (at 744 wide)	812 (at 1650 high)	1.34

The following glazing configurations are approved for double-leaf doorsets:

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

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

Ladder Frame - Glazed apertures may use the ladder frame system comprising single glass pane installed within aperture using 23 mm by 20 mm perimeter beads (at 750 kg/m³), with 'planted on' beads of similar size and density forming a ladder frame. Ladder beads to incorporate a 'Therm-a-strip' intumescent between the beads and the glass.

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

9. Intumescent Seals

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

For door assemblies to BS476: Part 22 – classified as FD30

Doorset Configuration	Position	Required Sizes of Lorient Type 617 Intumescent Seals
Single-acting, single-leaf	Head	1 off. 15 mm by 4 mm thick
	Vertical edges	1 off. 15 mm by 4 mm thick
Single-acting, double-leaf	Meeting edges (double-leaf doors only)	2 off. 10 mm by 4 mm thick or 1 off. 20 mm by 4 mm thick. For square meeting edges strips may be positioned within one leaf or there may be one strip in each leaf. For the latter case, strips should be positioned within the leaves such that they are not opposing.
Double-acting, single leaf		
Double-acting, double-leaf		

All seals exposed unless stated.

Intumescent dimensions stated include PVC sheaf.

Alternative Seal Specifications for Single-Acting, Double-Leaf Doorsets

Doorset Configuration	Position	Required Sizes of Intumescent Seals Ltd Therm-A-Seal
Single-acting, double-leaf	Head	1 off. 15 mm by 4 mm thick
	Vertical edges	1 off. 15 mm by 4 mm thick
	Meeting edges	1 off. 15mm by 4mm or 2 off. 10 mm by 4 mm thick or 1 off. 20 mm by 4 mm thick. For square meeting edges strips may be positioned within one leaf or there may be one strip in each leaf. For the latter case, strips should be positioned within the leaves such that they are not opposing.

Doorset Configuration	Position	Required Sizes of Pyroplex Rigid Box or Rigid Pile Seals
Single-acting, double-leaf	Head	1 off. 15 mm by 4 mm thick Rigid Box Seal (PO8700) or Pile rigid Box Seal (PO8712)
	Vertical edges	1 off. 15 mm by 4 mm thick Rigid Box Seal (PO8700) or Pile rigid Box Seal (PO8712)
	Meeting edges	2 off. 10 mm by 4 mm thick Rigid Box Seal (PO8500) or Pile Rigid Box Seal (PO8512). For square meeting edges strips may be positioned within one leaf or there may be one strip in each leaf. For the latter case, strips should be positioned within the leaves such that they are not opposing.

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 42 mm may utilise alternative Intumescents, of the same dimensions, 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.

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

For sizes of other CERTIFIRE approval seals, refer to the relevant CERTIFIRE approval.

All dimensions including PVC sheaf within nominal dimensions.

10. Hinges

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

Number:	Minimum 3No.		
Type:	Steel lift-off or butt hinges		
Positions*:	Top Hinge: Max. 250 mm from top of door to top hinge Bottom Hinge: Max. 275 mm from bottom of door to bottom hinge Middle Hinge: May be positioned at any position from mid-height of door to a minimum of 200 mm from top hinge position		
Hinge Dimensions:	Blade height:	100 mm (+/- 20%)	
	Blade width:	35 mm (+/- 3 mm)	
	Blade thickness:	3 mm (+/- 0.5 mm)	
	Knuckle dia.:	13 mm (+/- 1mm)	
Fixings:	Minimum 4 No. steel screws per blade		
	Minimum No.8 by 32 mm long		
Intumescent protection**	None required.		

Speedset/Doorkit Hinge Specifications

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

Number:	Minimum 3No.		
Type:	Steel construction, fixed pin		
Positions*:	Top Hinge:	Max. 250 mm from top of door to top hinge	
	Middle Hinge:	Mid-height of door	
	Bottom Hinge:	Max. 250 mm from bottom of door to bottom hinge	
Hinge Dimensions:	Blade height:	Door	55 mm (+/- 2 mm)
		Frame	65 mm (+/- 2 mm)
	Blade width:	Door	43 mm (+/- 2 mm)
		Frame	32 mm (+/- 2 mm)
	Blade thickness:	Door	2.5 mm to 6.5 mm
		Frame	3 mm (+/- 0.5 mm)
Knuckle dia.:	12.5 mm (+/- 1mm)		
Fixings:	Minimum 3 No. steel screws per blade		
	Door: Minimum 4 mm by 40 mm long		
	Frame: Minimum 4 mm by 25 mm long		
Door assemblies may utilise an alloy fixing plug to the door leaf, at the centre fixing position of the adjustable hinges.			
Intumescent protection**	None required.		
Door Frame:	minimum MDF door frame thickness to be 25 mm for all door options		

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

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

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

11. Locks/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 and knobsets.

Max. case dimension:	165 mm by 98 mm by 19 mm
Max. forend dimension:	235 mm high by 25 mm wide
Max. keep dimension:	180 mm high by 24 mm wide (excluding lip)
Latchbolt material:	Steel or Brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent: protection*	Forends / keeps shall be bedded on intumescent mastic OR both side faces of lockcase to be lined with 1 mm thick Interdens (Mono Ammonium Phosphate) or Graphite intumescent sheet material – minimum dimensions of sheet to be 30 mm wide by full height of lockcase.

Vingcard Signature and Signature RFID

These locks may be utilised 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 and keep.

* 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.
- The use of oval profile cylinders is not permitted

12. Self-Closing Devices

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

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

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

12a Surface mounted overhead closers

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

12b Transom Mounted and Concealed Closers

Not permitted

12c Floor Springs

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

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

Surface mounted plastic, laminate, steel, aluminium or brass plates may be installed on one or both faces on the basis that they are:

- < 2mm thick
- Do not occupy more than 20% of the door leaf in total, or exceed 500mm in height for kickplates and 300mm for mid-plates, whichever is the smaller.
- Do not wrap around the vertical edges, and on the closing face do not extend beneath the door stops (generally 40-50mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally screws may be used within 50 mm of each corner and no closer than 250 mm spacing on height and width

13b 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 intumescent mastic.

13c. 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.

13d 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, please note that Apertures for Air Transfer Grilles are to be lined with hardwood with a minimum thickness of 6 mm.

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.

13e Dropseals

Doorsets may be fitted with the following drop seals mortised into the lower edge of the door leaf

- Norsound 810 auto drop down seal
- Norsound 811 auto drop down seal
- Halspan Dropseal Ref: SLS DRP-100
- Exitex Concealex A8100
- Exitex Concealex A8100 Superior
- Exitex Concealex Superior Variseal
- Exitex Concealex Chronoseal
- Fire And Acoustic Seals FAS45

13f. Flush Bolts

Steel Flushbolts	
Max. dimension of flush bolt	150 mm high x 19 mm x 2.6 mm thick face plate with a 35 mm returned top edge 15 mm deep (fitted into 25 mm deep rebate)
Material:	Steel
Position:	Top and bottom on door edge
Intumescent: protection*	1 mm Intumescent sheet at base of rebate
	Intumescent seals shall be fitted to the meeting edge of the active door leaf only, such that the fitment of flushbolts does not interrupt the intumescent seals

Zinc Alloy Flushbolts	
Max. flushbolt dimension:	152 mm high x 20 mm deep x 19 mm wide
Max. keep dimension:	Maximum 18 mm wide by 32 mm
Material:	Zinc alloy
Position:	Top and bottom on door edge

Intumescent: protection:	2 mm thick Graphite intumescent sheet material to base of bolt body & beneath keep
Perimeter Intumescents:	2No. 10 mm wide by 4 mm thick Lorient Type 617 intumescents positioned centrally within the lock edge of the primary leaf, positioned 8 mm apart.

13g 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.

13h. 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

13i. Electric Strikes / Electro mechanical 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 CERTIFIRE (Tel: 01925 646777).