CERTIFICATE OF APPROVAL
No CF 195

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

PREMDOR CROSBY LIMITED

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	TECHNICAL SCHEDULE
Premdor Crosby Limited FD30 Flush	**TS10 Fire Resisting Door Assemblies with Non Metallic Leaves**

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight
Chairman
WCL Impartiality Committee

Paul Duggan
Certification Manager
Warrington Certification Ltd

Issued: 24th September 1999
Reissued: 11th March 2016
Valid to: 10th March 2021

This certificate is the property of Warrington Certification Limited, Holmesfield Road, Warrington, Cheshire WA1 2DS, UK. Registered company No. 02250182.

CERTIFICATE No CF 195
PREMDOR CROSBY LIMITED

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

1. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), the Technical Handbooks (Scotland), and Technical Booklet E (N. Ireland). If compliance is required with other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.

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. This approval relates to the use of the doors in providing fire resistance of 30 minutes insulation and 30 minutes integrity as defined in BS 476: Part 22: 1987. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD30 door assemblies when used in accordance with the provisions therein.

4. The doors comprise of flaxboard/chipboard cored, softwood framed leaves in various finishes for use with timber frames with intumescent edge seals.

5. 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.

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 Sheet and construction specification. No site cutting or glazing of apertures is permitted.

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

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

Table 1.

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

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

9. The doorsets shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.

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

11. This approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark together with the CERTIFIRE certificate number and application where appropriate.

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DATA SHEET
PREMDOR CROSBY LIMITED
No CF 195

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 approval is applicable to single or double-acting, single or double-leaf, latched and unlatched assemblies at leaf dimensions up to those given in Table 1 below. Double-leaf doorsets including unequal sized door leaves are permitted on the assumption that the smaller leaf is no less than 30 % of the width of the larger leaf.

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

Table 1.

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:	67 mm by 28 mm minimum.
	iii) Door Stop:	12 mm - pinned, screwed, tongue and grooved or rebated from solid
Medium Density Fibreboard	i) Density:	700 kg/m^3 min.
	ii) Dimensions:	70 mm by 18 mm min.
	iii) Door Stop:	12 mm -deep pinned, screwed 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.

4. Overpanels / Sidepanels

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

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

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, steel or timber stud of minimum thickness 70 mm, providing at least 30 minutes fire resistance. Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies as recommended by the partition manufacturer.

7. Installation

The opening may be lined with softwood which shall be continuous and of minimum width, 70mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon fixings at maximum 600 mm centres penetrating the wall to at least 50 mm. Architraves are optional with no restrictions on material, size or fixing.

Door assemblies shall be installed as stated in BS 8214: 1990, Table 2. 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

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

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

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

8. Glazed Apertures

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

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

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

Aperture Area: Maximum glazed area of 0.64 m^2 per leaf
Separation: 80 mm between apertures and leaf edge
Number of apertures: Any number of apertures may be included providing the maximum area constraints and the minimum separation requirements are satisfied. In double-leaf doorsets, each leaf must be similarly glazed.

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

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

9. Intumescent Seals

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

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

Door Assembly Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf doorsets	Head	1 No. 15 mm by 4 mm thick Type 617
	Vertical edges	1 No. 15 mm by 4 mm thick Type 617
Single-acting Double-leaf doorsets	Head	1 No. 15 mm by 4 mm thick Type 617
	Hanging edges	1 No. 15 mm by 4 mm thick Type 617
	Meeting edges (Square)	2No. 10 mm by 4 mm thick Type 617 (For square meeting edges strips may be positioned within one leaf) Or 1No. 10 mm by 4 mm thick Type 617 - each leaf. (Strips to be positioned within the leaves so that they are not opposing).
	Meeting edges (Rebated)	1No. 10 mm by 4 mm thick Type 617 (to be positioned in the rebate of each leaf). Or 1No. 20 mm by 4 mm thick Type 617 (strip fitted into one leaf only – for square or rounded meeting stiles)
Double-acting Single-leaf doorsets	Head	1 No. 38 mm by 4 mm thick Type 617
	Vertical edges	1 No. 15 mm by 4 mm thick Type 617
Double-acting Double-leaf doorsets	Head	1 No. 38 mm by 4 mm thick Type 617
	Hanging edges	1 No. 15 mm by 4 mm thick Type 617
	Meeting edges	2No. 10 mm by 4 mm thick Type 617 (Strips to be positioned within one leaf or one strip in each leaf. Where 1No. strip is fitted in each leaf they must be positioned so that they are not opposing) Or 1No. 20 mm by 4 mm thick Type 617.

Notes - All seals are exposed unless stated. The dimensions include the PVC sheaf.
Seals may be fitted into door leaf or frame unless specifically stated otherwise

* See Table 1 for size restrictions

Seals may be interrupted at hinge and latch positions. Alternative seals may be utilised in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

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

10. Hinges

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

Number:	Minimum 3No. hinges per leaf	
Type:	Steel, Phosphor bronze or brass butt, journal supported and pin. Any washers or ball bearings to be of phosphor bronze or steel.	
Positions:	Top hinge	Maximum 250 mm from the top of the door to the top hinge
	Bottom hinge	Maximum 275 mm from the bottom of door to bottom hinge.
	Middle hinge	May be positioned at any point from the mid-height of the door to a minimum 200mm from the top hinge position.
Dimensions:	Blade height:	100 mm (+20 - 10 mm)
	Blade width:	30 mm (± 3 mm)
	Blade thickness:	3 mm (± 0.5 mm)
	Knuckle dia.:	13 mm (± 1 mm)
Fixings:	4 No. steel screws (min.) no smaller than No.8 by 32 mm long	
Intumescent protection:**	None required	

* The datum in all cases is the centreline of the hinge.
** This specification overrides any requirement for the additional specification falls within the parameters identified above, specifically maximum dimensions and material. Where alternative hinges exceed the specification given above the intumescent protection as identified 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.

11. Locks and Latches

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

Mortice type, automatic (sprung) latch bolt, cylinder rim night latches and knobsets.

Option 1

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

Option 2

Max. case dimensions:	165 mm by 98 mm by 19 mm
Max. forend dimensions:	235 mm long by 25 mm wide.
Latch bolt material:	Steel/brass
Position:	Max 1100 mm from the bottom of the door to centreline of lockcase
Intumescent protection:*	Forends / keeps should be bedded on intumescent mastic OR both side faces of lockcase to be lined with 1 mm thick intumescent sheet material – minimum dimensions of sheet to be 30 mm wide by full height of lockcase.

*These specifications override 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. Where alternative lock / latch exceeds the specification given above the intumescent protection as identified in the lock / latch manufacturer's CERTIFIRE certificate shall apply.

Any other CERTIFIRE approved lock / latch may be fitted, subject to the conditions contained within the relevant certificate.

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

Handles should be steel. Aluminium handles are approved providing a 10 mm by 4 mm intumescent seal is fitted into the bottom edge of the leaves.

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 doors. Note: closers with any mechanical hold-open mechanisms are not permitted to be used. Building Regulations may identify locations within domestic locations where self-closing devices are not mandatory.
Double-acting doorsets are to be fitted with a CERTIFIRE approved floor spring and associated hardware (Top Pivot).

Perko (R1/R2), Perkomatic (R85), AA45, AA45CP, 'IFN13-02' and Astra 3000 jamb mounted closers are permitted to be used with the following constraints: -

- On internal, single-leaf, single-acting, latched door assemblies
- In single occupancy, domestic dwellings including on a door between an integral garage and the living accommodation
- On internal doors ONLY within a single residence (flat) of multiple occupancy domestic dwellings
- Use on individual entrance (flat entrance) doors and in common areas within multiple occupancy dwellings and flats and all industrial and commercial applications are expressly excluded.

(1) Note: use of Perko (R1/R2), Perkomatic (R85), AA45, AA45CP and IFN13-02 closers are 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 closing device is 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) Note: IFN13-02 closers are to include 1.8 mm thick Fire Force ISM 200 graphite intumescent protection.

13. Ancillary items

13a. Protection Plates

Plates of steel, brass, aluminium, PVC and laminates may be installed on one or both faces of the proposed door leaves using thermo-softening adhesive. Additional screws may be used within 50 mm of each corner and no closer than 250 mm spacing on height and width. They are not to be installed onto the stop side of the door leaf such that they are between the leaf and the stop.

Protection plates may be fitted in line with the following parameters:

Kick / Trolley plates:	Up to 1000 mm high
Push plates:	Not to exceed door height by 200 mm wide located on the leading edge of the leaf
Mid plates:	May be fitted up to 300 mm high

13b. Flushbolts

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

Max. dimensions:	Flushbolt - 150 mm high by 19 mm wide, with a 2.6 mm thick face plate with a 35 mm returned top edge. 15 mm deep (fitted into a 25 mm deep rebate). Strikeplate – 18 mm by 32 mm
Material:	All Steel construction required.
Position:	Top and bottom on door edge or face (positioned a minimum of 50 mm from the leading edge of the door to the centre line of the bolt)
Mode:	Flushbolts must be fully engaged
Intumescent protection:*	Base of mortice of bolt to be lined with 1 mm thick Therm-A-Flex graphite based intumescent sheet.

Where flushbolts are fitted the intumescent to the door assembly is to be as detailed in the table below: -

Door Assembly Configuration	Position	Required Intumescent Protection
Single-acting Double-leaf doorsets	Frame head	1 No. 20 mm by 4 mm thick Type 617*
	Door – top edge	1 No. 10 mm by 4 mm thick Type 617*
	Hanging edges	1 No. 15 mm by 4 mm thick Type 617
	Meeting edges (Square)	2No. 10 mm by 4 mm thick Type 617 (positioned 8 mm apart)

* Alternatively the frame head may be fitted with a 10 mm by 4 mm thick Type 617 with an opposing 20 mm by 4 mm thick Type 617 seal to the top edge of the door.

13c. 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

13d. 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,

Lorient Polyproducts Ltd (manufactured by Paddock Fabrications Ltd) intumescent fire resistance letter plates may be incorporated into the door leaf providing they are installed in accordance with the manufacturer's instructions.

13e. Air Transfer Grilles

No site cutting of apertures permitted as this will invalidate the certification.

Where apertures are pre-cut by Premdor Crosby Ltd, 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 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.

Additionally Air transfer grilles may only be fitted into factory prepared apertures lined with 6 mm thick (minimum) hardwood. The aperture is to be lined with intumescent mastic/paste and the grille fixed with minimum 35 mm long screws at maximum 200 mm centres.

13f. Door Viewers

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

13g. Coat Hooks and other Surface Mounted Hardware

Ancillary items which are wholly surface mounted may be fitted providing:

- These items are screw fixed or bonded only
- Are not bolted through the full thickness of the door
- Are not directly above, or closer than 100 mm to any non-insulated glazing.

13h. Dropseals

Doors may be fitted with the following drop seals mortised into the bottom edge of the door leaf: -

- Norsound 810
- Norsound 811
- Halspan SLS DRP-100

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).