
CERTIFICATE OF APPROVAL

No CF 380

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

PREMDOR CROSBY LIMITED

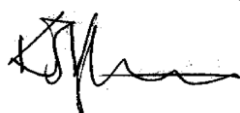
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Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT
FD30 Tube Core

TECHNICAL SCHEDULE
TS10 Fire Resisting Door
Assemblies with Non Metallic
Leaves

Signed and sealed for and on behalf of Exova (UK) Limited trading as
Warrington Certification



Sir Ken Knight
Chairman
Impartiality Committee



Paul Duggan
Certification Manager



Issued: 26th October 2004
Reissued: 15th December 2016
Valid to: 14th December 2021

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PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD30 Tube Core

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

1. This certificate is designed specifically to demonstrate compliance of the product or system with Approved Document B (England and Wales); the Technical Handbooks (Scotland); Technical Booklet E (N. Ireland). If compliance is required with other regulatory or guidance documents there may be additional considerations or conflicts 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. The doorsets comprise door leaves with a 'Tube Core' core within a softwood internal perimeter frame, for use with timber frames (code ITT FD30).
4. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a fully fitted form it is a condition of this approval that an agreed Data Sheet accompanies the product and is complied with in its entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door.
5. This approval is applicable to single-acting, single and double-leaf, latched and unlatched ITT doorsets at leaf dimensions up to those given in Table 1 and Figure 1.
6. Glazing shall only be undertaken by the door manufacturer, or a CERTIFIRE approved Licensed Door Processor, and shall be in accordance with the Data Information Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.
7. Hardware items, including closing devices and intumescent edge seals, shall be CERTIFIRE approved or otherwise as specified in the data sheet.

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8. The doorsets shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.
9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF 380 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
10. This approval relates to on-going production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application when appropriate.

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

Table 1. Maximum Permitted Door Leaf Dimensions

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

**PREMDOR CROSBY LIMITED FD30 TUBE CORE
CF380 DATA SHEET**

1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 minutes insulation (if incorporating not more than 20% of uninsulated glass) as defined in BS 476: Part 22, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 30 when used in accordance with the provisions therein.

In recognition of this, the leaf carries a prefixed label on the top or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with a CERTIFIRE approved Quality Management System and is subject to on-going surveillance. This label shall not be removed.

It is emphasised that the certification is conditional upon the following instructions being complied with in their entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door. Door assemblies supplied pre-fitted with components by Premdor Crosby Limited may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

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

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m²)
Single-Acting, Single-Leaf Latched / Unlatched	2040 (at 926 wide)	926 (at 2040 high)	1.89
Single-Acting, Double-Leaf Latched / Unlatched	2040 (at 926 wide)	926 (at 2040 high)	1.89

Table 1. Maximum Permitted Door Leaf Dimensions

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

3. Door Frame

To be any of the following:-

Softwood or Hardwood (single acting doorsets)

- i) Density: 440 kg/m³ minimum.
- ii) Dimensions: 70 mm by 28 mm minimum.
- iii) Door Stop: Any size – pinned, screwed or rebated from solid (min stop density 440 kg/m³).

MDF

- i) Density: 700 kg/m³ minimum.
- ii) Dimensions: 70 mm by 18 mm minimum.
- iii) Door Stop: Any size – pinned, screwed or rebated from solid (min stop density 700 kg/m³).

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

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.

Grorud hinges, speedset hinges or alternative approved steel butt hinges (see section 8) may be utilised. Grorud hinges must be bedded on graphite intumescent sheet.

4. Overpanels

Flush overpanels are not permitted.

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

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

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

Entire overpanel / sidepanel may be glazed in accordance with point 5 below.

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

The door assemblies are also approved to be installed within steel stud partitions as follows:

- The steel studs supporting the door frame must have adequate timber bracing to ensure that they are stable in a fire.
- The wall system manufacturer must be consulted for advice on this. Failing this the steel studs that support the hinges and latch legs of the door frame must be braced floor to ceiling with timber at least 38mm thick by the width of the steel stud.
- The timber bracing must be firmly fixed to the floor and ceiling and the door frame must be firmly fixed to this timber bracing at least 4 points on each leg of the frame with steel fixings at a maximum 600mm centres.



7. Installation

The opening may be lined with softwood or hardwood which shall be continuous and of minimum width, 85mm. Each door frame jamb to be fixed through to the wall at not less than four points with steel or nylon fixings at maximum 600 mm centres penetrating the wall to at least 50 mm. Architraves are optional with no restrictions on material, size or fixing.

Door assemblies shall be installed as stated in BS 8214.

Suitable CERTIFIRE approved lineal gap sealing systems may also be utilised to protect the frame/supporting construction gap, subject to the conditions contained within the relevant certificate.

The use of third party accredited installers provides a means of ensuring that installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

Door leaves may be trimmed to fit the frame by the following maximum amounts:

- Stiles (each): 3 mm
- Top: 3 mm
- Bottom: 5 mm

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

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

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

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

8. Glazed Apertures

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

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

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

Area: Maximum total glazed area of 0.31 m² per leaf

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

Aperture lining: 6 mm thick hardwood



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

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)

9. Intumescent Seals

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

For door assemblies to BS476: Part 22 – classified as FD30 – Timber & MDF frames

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting, Single-leaf door assemblies	Head	Single 15 mm wide by 4 mm thick Lorient Polyproducts Type 617 intumescent seal
	Vertical edges	Single 15 mm wide by 4 mm thick Lorient Polyproducts Type 617 intumescent seal
Single-acting, double-leaf door assemblies latched / unlatched	Head	Single 20 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal Or Single 15 mm wide by 4 mm thick Lorient Polyproducts Type 617 intumescent seal in the top edge of the leaf and frame reveal (opposing)
	Hanging edges	Single 15 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal
	Meeting edges	Single 10 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seals in each meeting edge (not opposing)

*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.

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



10. Hinges

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

Number:	Minimum 3 No.
Type:	Steel, Phosphor bronze or brass butt, journal supported and pin. Any washers or ball bearings to be of phosphor bronze or steel.
Positions:*	Maximum 250 mm from the top of door to top hinge. Maximum 275 mm from the 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
Dimensions:	i) Height: 90 - 120 mm ii) Blade width: 27 - 33 mm iii) Thickness: 3 mm (+/- 0.5 mm) iv) Knuckle dia.: 13 mm (+/- 1 mm)
Fixings:	Minimum 4No. steel screws, minimum No.8 by 32 mm long.
Intumescent Protection**	None required.

Hinges specifically approved: Speedset hinges (no intumescent bedding required)

Grorud hinges 2465, 2491, 2496 (hinge flaps must be bedded on graphite intumescent mastic or graphite intumescent sheet)

* 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. Where alternative hinges exceed the specification given above the intumescent protection as identified in the hinge manufacturer'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. When fitted locks / latches shall be CE Marked for use on 30 minute timber fire doors.

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

Max. case dimension:	Up to 164 mm high by 80 mm deep by 14 mm wide
Max. forend dimension:	235 mm high by 25 mm wide
Max. keep dimension:	185 mm high by 25 mm wide (excluding latch plate)
Latchbolt material:	Steel or Brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent: protection*	None required.



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

Max. case dimension:	165 mm high by 98 mm deep by 19 mm wide
Max. forend dimension:	235 mm high by 25 mm wide
Max. keep dimension:	185 mm high by 25 mm wide (excluding latch plate)
Latchbolt material:	Steel or Brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
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.

* 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. Where alternative lock/latch exceeds the specification given above the intumescent protection as identified in the lock/latch manufacture'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.

No restriction on type and material of handles.

Intumescent door edge seals may be fully interrupted by the forend or keep of lock/latch.

12. Self-Closing Devices

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

Perko (R1/R2), Perkomatic (R85), AA45, AA45CP, 'IFN13-02' and Astra 3000 jamb mounted closers are permitted to be used with the above mentioned doorset references within 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, IFN13-02 and Astra 3000 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 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.

13b Protection plates and signage

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

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

13c Coat Hooks and Other Surface Mounted Hardware

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

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

13d Dropseals

Doorsets may be fitted with the following drop seals mortised into the lower edge of the doorsets referenced below:

- Norsound dropseals: Nor810 / Nor810s / Nor810s+ / Nor810dB+ / Varigroove
- Halspan Dropseal Ref: SLS DRP-100

13e 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.



13f Flushbolts

Double-leaf doorsets included in the scope of the CERTIFIRE certificates referenced above may be fitted with flushbolts as detailed below:

- 150 mm high x 19 mm 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 x 32 mm maximum
- Flushbolt to be an all steel construction
- Base of mortise for flushbolt to be lined with 1mm thick Therm-a-flex graphite based intumescent sheet
- Flushbolts must be fully engaged

Intumescent spec for door assemblies including flushbolts to be as follows:

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting, double-leaf door assemblies latched / unlatched	Head	Single 20 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal to the frame head with a single 10 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal to the top edge of the door Or Single 10 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal to the frame head with a single 20 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal to the top edge of the door
	Vertical Edges	Single 15 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seal
	Primary leaf Meeting edge	2No. 10 mm by 4 mm thick Lorient Polyproducts Type 617 intumescent seals positioned centrally in the meeting edge, 8 mm apart.

13g Air transfer grilles

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

Where apertures are pre-cut by Premdor Crosby Limited, or a CERTIFIRE approved Licensed Door Processor, Intumescent Air Transfer Grilles may be fitted on site by NON-CERTIFIRE approved staff, however, the Intumescent Air Transfer Grilles shall be CERTIFIRE approved for use in FD30 timber based doors. The air transfer grilles must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille within the door assembly.

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



13h 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.

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 Exova (UK) Limited trading as Warrington Certification (Tel: +44 (0) 1925 646777).

