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## CERTIFICATE OF APPROVAL

### No CF 198

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

## PREMDOR CROSBY LIMITED

Huddersfield Road, Darton, Barnsley, S75 5JS  
Tel: 01226 383434 Fax: 01226 388808

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

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#### CERTIFIED PRODUCT

Premdor Crosby Limited  
FD30 Moulded Skin Chipboard  
Core

#### TECHNICAL SCHEDULE

TS10 Fire Resisting Door  
Assemblies with Non Metallic  
Leaves

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight  
Chairman - Management Council

Issued: 24<sup>th</sup> September 1999  
Reissued: 08<sup>th</sup> August 2014  
Valid to: 07<sup>th</sup> August 2019

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## CERTIFICATE No CF 198 PREMDOR CROSBY LIMITED

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### PREMDOR CROSBY LIMITED - FD30 MOULDED SKIN CHIPBOARD CORE

1. 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 would be expected to meet the relevant requirements of BS 5588 for FD30 doorsets when used in accordance with the provisions therein.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.'
3. The doors are approved on the basis of:
  - i) Initial type testing
  - ii) Audit testing at the frequency specified in TS10
  - iii) A design appraisal against TS10
  - iv) Certification of quality management system to ISO 9001: 2008.
  - v) Inspection and surveillance of factory production control
4. The doorsets comprise door leaves with an extruded chipboard core within a softwood internal perimeter frame, for use with timber frames (code ITT FD30).
5. This approval is applicable to both complete doorsets and door leaves. Where the door is not supplied in a completely fitted form it is a condition of this approval that an agreed data sheet accompanies the product and is complied with in its entirety.
6. 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.
7. Hardware items, including closing devices and intumescent edge seals, shall be CERTIFIRE approved or otherwise 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.

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## CERTIFICATE No CF 198 PREMDOR CROSBY LIMITED

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### PREMDOR CROSBY LIMITED - FD30 MOULDED SKIN CHIPBOARD CORE

Configuration	Maximum Height (mm)	Maximum Width (mm)
Single-acting ,Single and Double-leaf (latched and unlatched)	2135	926

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

**Note:** Maximum permitted values at dimensions greater than specified on the headings may be determined graphically by linear interpolation (see Figure1) between the two data points for each configuration. Under no circumstances must either the maximum height or maximum width be exceeded without separate CERTIFIRE approval.

9. Labels to the BWF/CERTIFIRE design referencing Premdor Crosby Limited, CERTIFIRE and CERTIFIRE Ref. No. CF198 and FD30 fire 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.

# PREMDOR CROSBY LIMITED FD30 MOULDED SKIN CHIPBOARD CORE - CF198 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 uninsulating glass) as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the door would be expected to meet the relevant requirements of BS 5588 for FD 30 doorsets 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 British Woodworking Federation - CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with BS ISO: 9001: 2000 for quality systems 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-acting, single and double-leaf, latched and unlatched ITT doorsets at leaf dimensions up to 2135 mm high by 926 mm wide.

## 3. Door Frame

To be any of the following:-

Softwood or Hardwood	i) Density: 450 kg/m <sup>3</sup> minimum. ii) Dimensions: 67 mm by 28 mm minimum. iii) Door Stop: 12 mm - pinned, screwed or rebated from solid
Medium Density Fibreboard	i) Density: 700 kg/m <sup>3</sup> min. ii) Dimensions: 77 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. **Supporting Construction**

The door assemblies are approved to be installed in brick, block, masonry, or timber or steel stud of minimum thickness 70 mm, providing at least 30 minutes fire resistance.

Doorsets installed within steel stud partition supporting constructions should follow the following installation specification:

- 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.
- 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.

#### 5. **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 50 mm. Architraves are optional with no restrictions on material, size or fixing. Doorsets shall be installed as stated in BS 8214 : 1990, Table 2.

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

Stiles (each)	10 mm*
Top	3 mm
Bottom	10 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.

\*only softwood stiles and/or rails may be trimmed to 10 mm. For homogeneous wood stiles/rails, maximum trimming allowed is 3 mm for stiles and 5 mm for bottom.

#### 6. **Glazed Apertures**

##### **Apertures:**

Dimensions:

Area: 1.215m<sup>2</sup>  
Height: 1719mm  
Wide: 707mm

or

Area: 0.73m<sup>2</sup>  
Height: 1247mm  
Wide: 812mm

Separation:

100 mm between apertures and leaf edge  
80 mm between apertures and leaf edge for leaves with a maximum width of 726 mm

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.



## Approved glazing systems:

Any Certifire approved glazing system may be used, up to the maximum size allowed for the glazing system, or the maximum size allowed for the door within this CF, whichever is the smaller providing the installation details given in the appropriate certification documents are adhered to.

## 7. Intumescent Seals -

CERTIFIRE approved intumescent seals (in accordance with TS35) are required to be fitted to these doors.

Doorset Configuration	Position	Required Sizes of Lorient Polyproducts Ltd LP2004, LP1504 & LP1004, PVC Encased Intumescent Strips <sup>(1)(*)(#)</sup>
Single-acting Single-leaf doorsets fitted into timber or MDF frames	Head & vertical edges	1 off. 15 mm by 4 mm thick
Single-acting double leaf doorsets fitted into timber or MDF frames	Head & hanging edges	1 off. 15 mm by 4 mm thick fitted into frame (head and jambs) & 1 off 10 mm by 4 mm fitted into head of leaf
	Meeting edges	2 off. 10 mm by 4 mm thick or 1 off 20 mm x 4mm thick Interdens or Palusol based strips (strips may be fitted into one leaf only, strips should not oppose each other, for rebated edges one strip positioned in the rebate to each leaf edge)

<sup>(1)</sup>All seals exposed unless stated. For sizes of other CERTIFIRE approved seals, refer to relevant CERTIFIRE approval.

\* Including PVC sheaf within nominal dimensions.

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

## 8. Hinges

Hinges shall be CE marked for use on fire resisting timber doors, in addition to the specifications below:

Number:	3 hinges per leaf
Type:	Steel, Phosphor bronze or brass butt, journal supported and fixed pin. Any washers or ball bearings to be of phosphor bronze or steel.
Positions (measured from centre of hinges):	Upper Hinge: 200 mm (-0mm/+50 mm) from top edge of leaf Bottom Hinge: 200 mm (-50mm/+75mm) from bottom edge of leaf 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) Blade height: 100 mm (+20 - 10 mm) ii) Blade width: 30 mm (± 3 mm ) iii) Blade thickness: 3 mm (± 0.5 mm) iv) Knuckle dia.: 13 mm (± 1 mm)
Fixings:	4 No. steel screws (min.) no smaller than No.8 by 32 mm long,

### Speedset/Doorkit Hinge Specifications

Doorsets may be fitted with hinges, CE marked for use on fire resisting timber doors with the following specification:

Number:	3 hinges per door
Type:	Steel construction, fixed pin.



Position: 200mm (+/- 50mm) from top and bottom of door and mid-height (measured from centre line of hinge)

Dimensions: Blade height, frame blade 65mm +/- 2mm – door blade 55mm +/- 2mm  
Blade width, frame blade 32mm +/- 2mm – door blade 43mm +/- 2mm  
Blade thickness, frame blade 3mm +/- 0.5mm – door blade 2.5mm to 6.5mm  
Knuckle diameter 12.5mm +/- 1mm

Fixings: 3 screws per blade (min) no smaller than 4mmx40mm into door leaf and 4mm x 25mm into frame.

Door Frame : minimum MDF door frame thickness to be 18 mm for all door options

## 9. Latches

Where fitted, latches shall be CE marked for use on fire resisting timber doors, in addition to the specification below:

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

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

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

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.

Intumescent protection is not required for tubular latches.

## 10. Self Closing Devices

All unlatched doorsets shall be fitted with a face fixed surface mounted or concealed overhead door closer. Not essential for fire performance if the doorset incorporates a latch and the leaf is in the closed and fully latched position. A self-closing device is however required to be fitted to satisfy fire regulations and if fitted shall be a CERTIFIRE approved product. **Note: closers with mechanical hold-open mechanisms are not permitted to be used.**

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

- i) On internal, single-leaf, single-acting, latched door assemblies
- ii) In single occupancy, domestic dwellings including on a door between an integral garage and the living accommodation
- iii) On internal doors ONLY within a single residence (flat) of multiple occupancy domestic dwellings
- iv) 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.

<sup>(1)</sup> **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.**





<sup>(2)</sup> **Note: IFN13-02 closers are to include 1.8 mm thick Fire Force ISM 200 graphite intumescent protection.**

#### 11. 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

#### 12. Letter Plates

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

Alternatively Mann McGowan Fabrications Ltd's Pyrostrip letter plate liners may be used in conjunction with appropriate letter plates providing they are installed in accordance with the manufactures instructions.

Alternative CERTIFIRE approved letter plates may be used providing the installation details given in the appropriate certification documents are adhered to.

#### 13. Air Transfer Grilles

Lorient Polyproducts LV25 and LV40 air transfer grilles may be fitted into factory prepared apertures lined with 6 mm thick (minimum) hardwood. **No site cutting of apertures permitted.** 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.

Alternative CERTIFIRE approved air transfer grilles may be used providing the installation details given in the appropriate certification documents are adhered to.

#### 14. 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.

#### 15. 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).

Further information regarding BWF labelling requirements can be obtained from the British Woodworking Federation (Tel: 0870 458 6949).

