
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

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

FD30 Tube 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: 26th October 2004
Revised: 26th September 2013
Valid to: 24th November 2016

Page 1 of 3



CERTIFICATE No CF 380 PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD30 Tube 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 will 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
 - iii) Certification of quality management system to ISO 9001: 2008.
 - iv) Inspection and surveillance of factory production control
4. The doorsets comprise door leaves with a 'Tube Core' 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 and Figure 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.

CERTIFICATE No CF 380 PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD30 TUBEBOARD CORE

| Configuration | Maximum Height (mm) | Maximum Width (mm) |
|--|------------------------|-----------------------|
| Single-acting ,Single-leaf (latched/unlatched) | 2040 | 926 |
| Single-acting, Double-leaf (latched/unlatched) | 2040 | 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. CF380 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 TUBE CORE - CF 380 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 will 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 9000 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 or double-leaf, latched and unlatched ITT doorsets at leaf dimensions up to those given in Figure 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.

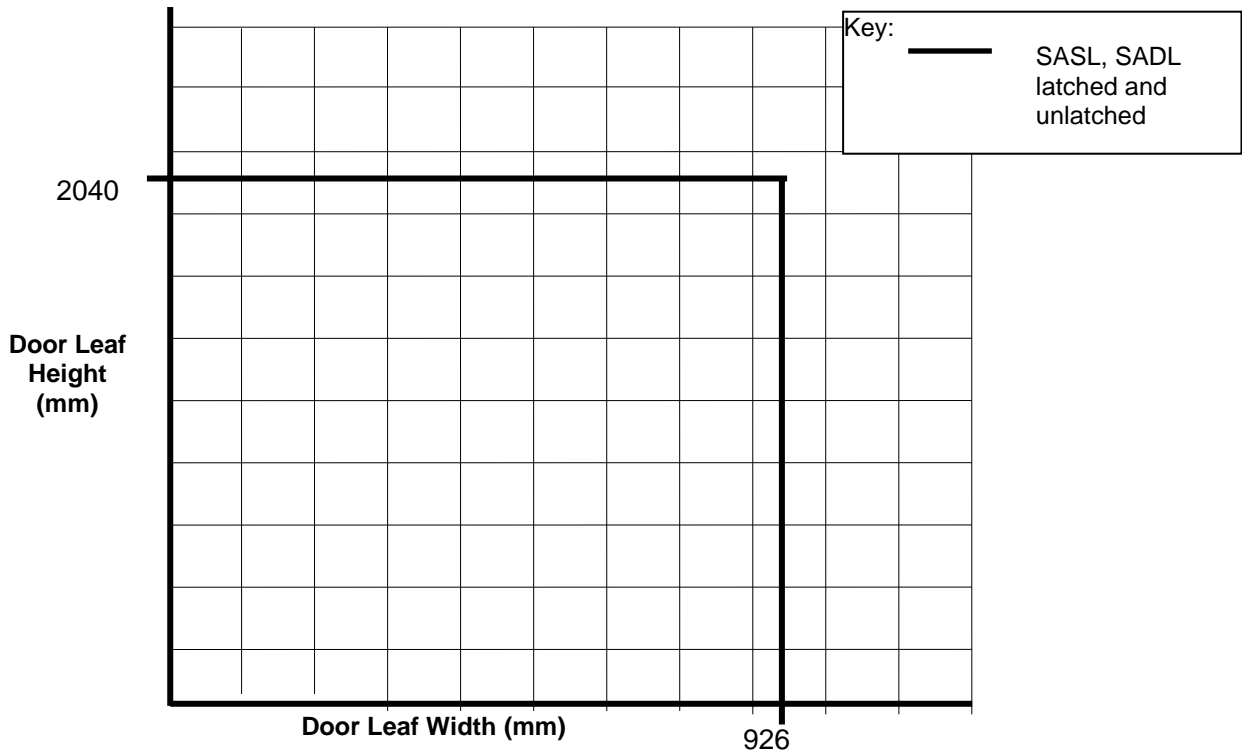


Figure 1. Maximum Permitted Door Leaf Dimensions



3. **Door Frame**

To be any of the following:-

| | |
|---------------------------|---|
| Softwood or Hardwood | i) Density: 440 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 |
| Medium Density Fibreboard | i) Density: 700 kg/m ³ min. ii) Dimensions: 70 mm by 18 mm min. iii) Door Stop: any size -deep 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 8 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. **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 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) | 3 mm |
| Top | 3 mm |
| Bottom | 5 mm |



Door leaf to frame gaps should not exceed 4 mm. Door leaf meeting edge gaps should not exceed 3.5 mm. Threshold gaps should not exceed 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.

6. Glazed Apertures

All apertures to be factory prepared by Premdor Crosby Limited. **No site cutting of apertures permitted.**

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):

The maximum size and maximum total area options for glazing per leaf is:

- 1410 mm high and 225 mm wide (subject to a maximum area of 0.31m²).
- or
- 914 mm high and 508 mm wide (subject to a maximum area of 0.31m²).
- or
- 1500 mm high and 150 mm wide (subject to a maximum area of 0.225m²).

Separation: 100 mm between apertures and leaf edge, 80 mm between apertures

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.

NOTE: Apertures must be lined with 6 mm thick hardwood

7. Intumescent Seals - CERTIFIRE approved Intumescent seals are required to be fitted to these doors.

| Doorset Configuration | Position | Required Sizes Lorient Polyproducts Limited 'Type 617', PVC Encased Intumescent Strips ^{(1)(*)} (#) |
|------------------------------------|----------------|--|
| Single-acting Single-leaf doorsets | Head | 1 off. 15 mm by 4 mm thick |
| | Vertical edges | 1 off. 15 mm by 4 mm thick |
| Single-acting Double-leaf doorsets | Head | 1 off. 20 mm by 4 mm thick |
| | Hanging edges | 1 off. 15 mm by 4 mm thick |
| | Meeting edges | 2 off. 10 mm by 4 mm thick (positioned within the leaves such that they are not opposing.) |

(1) All seals exposed unless stated.

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

* Including PVC sheaf within nominal dimensions.

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

Note: 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).

For sizes of other CERTIFIRE approval seals, refer to the relevant CERTIFIRE approval. All dimensions including PVC sheaf within nominal dimensions.



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 pin. Any washers or ball bearings to be of phosphor bronze or steel. No additional intumescent protection is required for these hinges. |
| Positions: | 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: | The datum in all cases is the centreline of the hinge i) Blade height: 100 mm (+20 - 10 mm) ii) Blade width: 30 mm (\pm 3 mm) iii) Blade thickness: 3 mm (\pm 0.5 mm) iv) Knuckle dia.: 13 mm (\pm 1 mm) |
| Fixings: | 4 No. steel screws (min.) no smaller than No.8 by 32 mm long |
| 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) |

9. Latches

Latches are not necessary although where fitted shall be CE marked for use on fire resisting timber doors, in addition to the specifications below:

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

| | |
|-------------------------|--------------------------------|
| Max. case dimensions: | up to 164 mm by 80 mm by 14 mm |
| Max. forend dimensions: | 235 mm long by 25 mm wide. |
| Latch bolt material: | Steel/brass |

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

| | |
|-------------------------|---|
| Max. case dimensions: | up to 165 mm x 98 mm x 19 mm |
| Max. forend dimensions: | 235 mm long by 25 mm wide. |
| Latch bolt material: | Steel/brass |
| Intumescent protection: | Forends/keeps should be bedded on intumescent mastic. |

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

No restriction on type and material of handles.

A lock block must be provided within the leaf core, comprising tubeboard with 'tube' diameters of 16 mm, and the lock/latch casings should be bedded on graphite intumescent sheet material (except for tubular latches where the graphite intumescent sheet protection is not required).



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 may however be 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.

⁽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.**

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

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 doorset.



13. Air Transfer Grilles

No site cutting of apertures is permitted.

Where apertures are pre-cut by a Premdor Crosby Limited or a CERTIFIRE approved Door Modifier company, 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 doorset.

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

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 6939).

