



CERTIFICATE OF APPROVAL

No CF 302

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, Yorkshire, S75 5JS
Tel: 01226 383434 Fax: 01226 384955

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
FD60 Flush Flax Door
Assemblies

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: 24th January 2003
Revised: 13th May 2021
Valid to: 03rd October 2024



CERTIFICATE No CF 302 PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD60 TIMBER DOOR ASSEMBLIES

This approval relates to the use of the above doors in providing fire resistance of 60 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 60 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 FD60 door assemblies when used in accordance with the provisions therein.

1. This certification is provided to the client for their 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 in accordance with TS10
3. The door assemblies comprise door leaves of panels within a softwood internal perimeter frame, for use with timber frames, with intumescent edge seals (code ITT FD60).
4. This approval is applicable to both complete doorsets and door assemblies. 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 glazed and unglazed ITT assemblies with square meeting stiles only (double doors) at leaf dimensions up to those detailed within Table 1 below:

Assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. 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)	2133 (at 926 mm wide)	940 (at 2100 mm high)	1.97

Table 1

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

Double-leaf assemblies are permitted on the basis of square (unrebated) meeting edges only and may incorporate leaves of unequal width providing the smaller leaf is a minimum of 40% of the width of the larger leaf.



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PREMDOR CROSBY LIMITED - FD60 TIMBER DOOR ASSEMBLIES

6. Glazing shall only be undertaken by the door manufacturer, or a CERTIFIRE approved Licensed Door Processor and shall be in accordance with the information within the Data Sheet and Construction Specification. No site cutting or glazing of apertures is permitted.
7. Hardware items, including closing devices and intumescent fire seals, shall be as specified in the Data Sheet.
8. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.
9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF302 and FD60 classifications resistance shall be affixed to each door in the prescribed position.
10. The approval relates to on-going production. Product and/or its immediate packaging is identified with the manufacturers' 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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E/114

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CF 302 DATA SHEET

1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 60 minutes integrity and 60 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 60 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-acting, single and double-leaf, latched and unlatched ITT door assemblies at leaf dimensions up to those detailed within Table 1 below.

Assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. 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)	2133 (at 926 mm wide)	940 (at 2100 mm high)	1.97

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

Double-leaf assemblies are permitted on the basis of square (unrebated) meeting edges only and may incorporate leaves of unequal width providing the smaller leaf is a minimum of 40% of the width of the larger leaf.

3. Door Frame

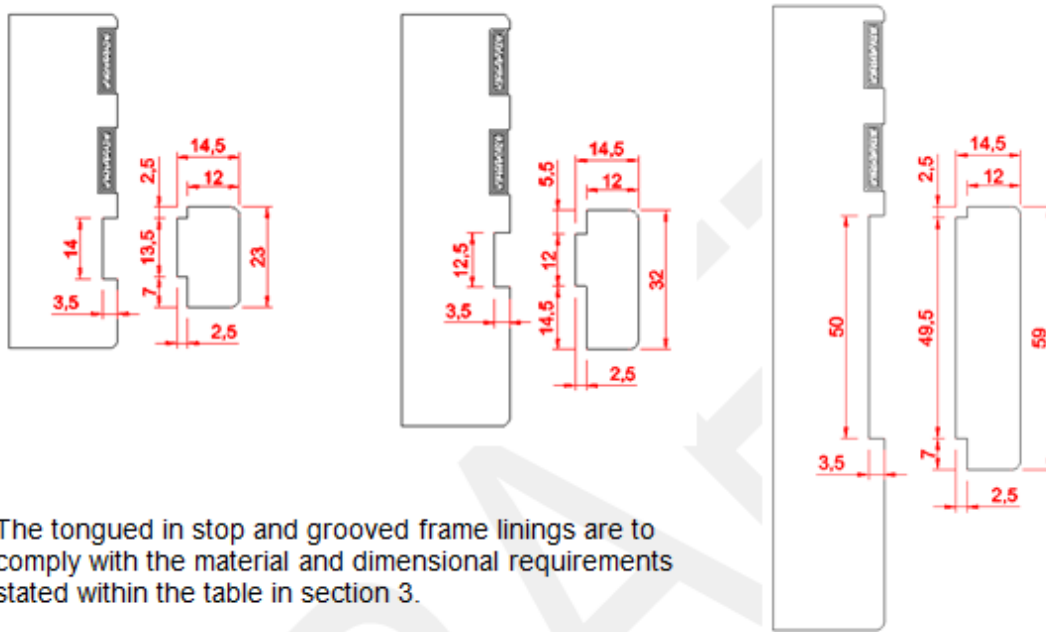
To be any of the following:-

Hardwood (excluding Ash, Beech & Iroko)	i) Density:	530 kg/m ³ minimum
	ii) Dimensions:	90 mm by 44 mm minimum
	iii) Door Stop:	12 mm deep minimum pinned only, glued & pinned using 40 mm long steel pins or rebated from solid timber (min stop density 530 kg/m ³). Where the stop is rebated from solid timber the overall frame thickness must be increased proportionately to accommodate the minimum 12 mm rebate depth.

Frame jointing:	Butt joints, mortice and tenon, mitred or half lapped joints with the head screw fixed to the jambs using two steel screws, gauge 5 mm minimum by minimum 70 mm long (opening face) or minimum 100 mm long (closing face).
Door to frame gaps:	Not to exceed 3.5 mm except at threshold where up to 10 mm is permitted and 3.5 mm at the meeting stiles

Alternative Framing – Grooved frames / Tongued Stops

Door assemblies may incorporate tongued in stop variants complete with grooved frame linings as shown in the details below:



The tongued in stop and grooved frame linings are to comply with the material and dimensional requirements stated within the table in section 3.

4. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry or timber stud of minimum thickness 90 mm, providing at least 60 minutes fire resistance.

Where stud partitions are used these should be suitably constructed to provide a secure fixing for the door assemblies in accordance with the following:

- 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, or fitted internally within the back 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 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 frame fixings at maximum 600 mm centres penetrating the wall to at least 45 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

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.

6. 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. Double leaf assemblies with equal width leaves must be similarly glazed:

Area: Maximum total glazed area of 0.58 m² per leaf

Margins: Minimum 127 mm top margin and 200 mm vertical margin from the perimeter edge, 200 mm between apertures.

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m²)
1143 (at 508 wide)	635 (at 914 high)	0.58

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

Non-insulating glass: 7 mm Pyrobelite

Intumescent System	Bead Dimensions	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Dia.	Max. Area (m ²)
Sealmaster Fireglaze 2000 intumescent strips 25 mm by 5 mm between the glass / glazing beads complete with an Intumescent Seals Therm-A-Line aperture liner 54 mm wide by 2 mm thick	23 mm high by 31 mm wide complete with a 15 ° splay, including a 7 mm high by 6 mm wide bolection (25 mm +2/-1 mm edge cover)	Hardwood min 520 kg/m ³ (excluding Ash, Beech & Iroko)	50 mm long pins or air fired brads or No.6 screws perpendicular to the bead splay at max 130 mm centres, max 50 mm in form the corners	1143 (at 508 wide)	635 (at 914 high)	N/A	0.58

7. 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 FD60 – Timber frames

Door assembly Configuration*	Position	Required Intumescent Protection
Single-Acting Single-Leaf	Head & Vertical Edges	2No. 15 mm by 4 mm ISL Therm-a-seal or Pyroplex FO-8700 intumescents positioned 8 mm apart centrally in the frame head & jambs reveal or centrally in top & vertical leaf edges. Or 2No. 15 mm by 4 mm Mann McGowan 500P intumescents positioned 8 mm and 31 mm from the opening face of the frame or centrally in top & vertical leaf edges, 8 mm apart. Or 2No. 15 mm by 4 mm Lorient Polyproducts Type 617 intumescents positioned 8 mm apart centrally in the frame head & jambs reveal or centrally in top & vertical leaf edges.
Single-Acting Double-Leaf	Head & Vertical Edges	2No. 15 mm by 4 mm Mann McGowan 500P intumescents positioned 8 mm and 31 mm from the opening face of the frame or centrally in top & vertical leaf edges, 8 mm apart.
	Meeting edges	2No. 15 mm by 4 mm Mann McGowan 500P intumescents positioned centrally within the meeting edge of the primary leaf positioned 10 mm apart.

*See Table 1 for size restrictions

Seals may be interrupted at the hinge and latch positions.

Intumescent strips cannot be changed from the specific size type and location specified within the data sheet.

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

8. Hinges

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire door assemblies.

Number:	Minimum 3 No. per leaf
Type:	Steel lift off or butt hinges.
Positions:*	Maximum 250 mm from the top of door to top hinge. Maximum 300 mm from the bottom of door to bottom hinge. Middle hinge fitted centrally in the leaf height or minimum 200 mm from the top hinge position.
Dimensions:	i) Height: 100 mm ($\pm 20\%$) ii) Blade width: 35 mm (+2 mm / - 3 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**	1 mm thick Interdens (Mono Ammonium Phosphate) or 1 mm thick Graphite intumescent sheet material..

* 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.

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 above.

Where the Certifire approved hinge exceeds the specification given 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.

Any other CERTIFIRE approved hinges may be used, subject to the conditions contained within the relevant

9. Locks and Latches

Locks / latches are not necessary. When fitted locks / latches shall be CE Marked for use on 60 minute timber fire doors.

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

Max. case dimension:	165 mm high by 89 mm deep by 19 mm wide
Max. forend dimension:	236 mm high by 25 mm wide
Max. keep dimension:	180 mm high by 25 mm wide (excluding lip)
Latchbolt material:	Steel or material with a melting point greater than 950°C
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent: protection*	Case, forend and keep to be bedded onto 1 mm of interdens (Mono Ammonium Phosphate) intumescent sheet material.

Tubular latches.

Max. case dimension:	22 mm high by 14.5mm wide
Max. forend dimension:	58 mm high by 25 mm wide
Max. keep dimension:	58 mm high by 25 mm wide (excluding lip)
Latchbolt material:	Steel or material with a melting point greater than 950°C
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent: protection*	Forend to be bedded onto 2 mm of interdens (Mono Ammonium Phosphate) or graphite based intumescent sheet material.

Tubular latches with dimensions in excess of those shown above will require intumescent protection as specified for use with mortice type locks.

* 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.

Any other CERTIFIRE approved lock/latch may be fitted, providing no lock/strikeplate dimension is more than 25% of that approved above and subject to the conditions contained within the relevant certificate.

Where the Certifire approved lock/latch exceeds the specification given 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 should result in a tight fit, allowing for any intumescent protection where required.

Intumescent seals in the frame or door leaf may be fully interrupted by the keep and or forend, except where the lock manufacturer's data is used, and advises otherwise.

No restriction on type and material of mechanical lever handles and knobs.

10. Overhead Closers

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.

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.

10a Surface mounted overhead closers

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

10b Transom Mounted and Concealed Closers

Not permitted

10c Floor Springs

Not permitted

11. Ancillary items

Please note that hardware items other than those discussed within this certificate of approval are not permitted.

11a Protection plates and signage

Surface mounted plastic, 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.

11b 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.

11c Flushbolts

Steel flushbolts are acceptable on the basis that they are:

Max. dimension	200 mm high x 34 mm deep x 19 mm wide
Material:	Steel
Position:	Top and bottom on door edge or face (positioned a minimum of 50 mm from leading edge of the door to the centre of the bolt) Single-acting, double-leaf assemblies are permitted with square (unrebated) meeting stiles only.
Intumescent: protection*	10 mm wide by 2 mm thick Interdens (Mono Ammonium Phosphate) to the base of the flushbolt recess and beneath the keep.

11d Electric Strikes / Electro mechanical locks

Not permitted

11e. 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 FD60 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.

11f. 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 FD60 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.

11g. Door Viewers

Not permitted

11h. Dropseals

Door assemblies may incorporate CERTIFIRE approved dropseals with maximum dimensions of 35 mm high by 14 mm wide to the bottom edge of the door leaf.

Alternatively door assemblies may be fitted with the following dropseals mortised into the bottom edge of the door leaf:

- Exitex Concealex A8100
- Exitex Concealex A8100 Superior
- Exitex Concealex Superior Variseal
- Exitex Concealex Chronoseal
- Lorient LAS8001si
- Lorient LAS8002si
- Lorient AAS8501

Where dropseals are fitted, the recess for a dropseal may be formed on site by NON-CERTIFIRE approved staff. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate.

Note: Threshold gaps as stated within Section 3 of the Data Sheet are to be maintained.

11i. 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

12. 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).