
CERTIFICATE OF APPROVAL

No CF 240

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

Premdor Crosby Limited
FD30 PremCORE HD
ITT Timber Door Blanks

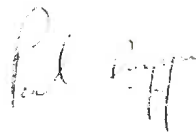
TECHNICAL SCHEDULE

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: 5th September 2000
Reissued: 25th January 2017
Valid to: 24th January 2022

Page 1 of 3



CERTIFICATE No CF 240
PREMDOR CROSBY LIMITED

PREMDOR CROSBY LIMITED - FD30 PremCORE HD

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 certificate is designed specifically to demonstrate compliance of the product or system specifically 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 conflict to be taken into account.'
2.
 - 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 of cellulosic cored leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD30).
4. This approval is applicable to both complete door assemblies 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. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door.
5. This approval is applicable to single and double-acting, single and double-leaf, latched and unlatched, glazed and unglazed ITT assemblies at leaf dimensions up to those given in the tables below.
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 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 30 minutes.

**CERTIFICATE No CF 240
PREMDOR CROSBY LIMITED**

PREMDOR CROSBY LIMITED - FD30 PremCORE HD

9. Labels to the CERTIFIRE design or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF240 and FD30 classifications resistance shall be affixed to each door in the prescribed position.
10. The 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.

Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single and Double-Leaf, Latched and Unlatched

Doorset configuration	Max Height (mm)	Max Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2700 (at 943 wide)	1165 (at 2129 high)	2.55
Single-Acting, Double-Leaf Latched / Unlatched 15 x 4 mm intumescent	2630 (at 943 wide)	1165 (at 2129 high)	2.48
Double-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2540 (at 921 wide)	1086 (at 2040 high)	2.34
Double-Acting, Double-Leaf Latched / Unlatched 10 x 4 mm intumescent (2No. 10 x 4 mm to meeting edge)	2540 (at 921 wide)	1086 (at 2040 high)	2.34

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

CF 240 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 FD30 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 Tables 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.

Table 1. Maximum Permitted Door Leaf Dimensions for Fire Performance
Single-Acting, Single and Double-Leaf, Latched and Unlatched

Doorset configuration	Max Height (mm)	Max Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm intumescent	2700 (at 943 wide)	1165 (at 2129 high)	2.55
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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 min. ii) Dimensions: 70 mm by 28 mm min. iii) Door Stop: Any size - pinned, screwed, tongue and grooved or rebated from solid (min stop density 450 kg/m ³).
Engineered Softwood timber	i) Density: 450 kg/m ³ min. ii) Dimensions: 70 mm by 28 mm min. iii) Door Stop: Any size - pinned, screwed, tongue and grooved or rebated from solid (min stop density 450 kg/m ³).
MDF	i) Density: 700 kg/m ³ min. ii) Dimensions: 70 mm by 28 mm min. iii) Door Stop: Any size - pinned, screwed, tongue and grooved or rebated from solid (min stop density 700 kg/m ³).
Winkhaus Ecoframe (single-acting, single-leaf doors only)	i) Overall dimensions 60 mm by 70 mm (note intumescent specification requirements)
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 Plus Framing System

Consisting of:

- A fixed jamb and head profile with pinned MDF stop
- A matched frame section to both jambs and head which can be adjusted to accommodate varying wall/partition widths, between 77mm and 160mm
- The fixed jamb carries the hinged door leaf, and is retained in situ with 8 steel angle brackets (4 on each frame jamb)
- Width adjustment is achieved by turning screws located between the two profiles. This traverses one section beneath the door stop on the other to suit the finite wall thickness
- After adjustment the moving section is also fixed to the wall but with 8no. folding polypropylene fixing brackets (again 4c on each jamb – opposite the fixed steel brackets on the opposing jamb edge)
- One in place both sets of brackets on the frame are masked by an applied MDF architrave, matched through at the head.

Note – when fitting espagnolette locks please see allowed door frame materials and cross sections in Espagnolette lock section 10.



4. Overpanels and Sidepanels

Flush overpanels may be included up to a maximum height of 1000 mm and shall include 6 mm thick hardwood lippings (minimum) and opposing lipping to the leaf head, or a rebated 18 mm thick (minimum) hardwood lipping with 22 mm wide by 12 mm deep rebate at the bottom edge, with a corresponding 18 mm thick (minimum) hardwood lipping with a 22 mm wide by 12 mm deep rebate in the top edge of the leaf.

Where rebated meeting edges are not incorporated on double-leaf assemblies, timber astragals (min 640kg/m³) are required at the junction between the bottom of the overpanel and the top edge of the doors.

Transomed overpanels may be included up to 1000 mm high, with a minimum 28 mm thick transom rail. Overpanels will include an identical intumescent specification to the door leaves

Side panels incorporating a mullion rail of minimum 28 mm thick may be included up to a maximum width of 1000mm.

Overpanels / sidepanels to be manufactured as per door leaf specification, bedded against beads or the stop of the rebate and be screw fixed at maximum 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 Section 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 and timber stud of minimum thickness 85 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: No limit providing lippings are not fitted, 3 mm if lippings are fitted
- Bottom: No limit providing lippings are not fitted, 3 mm if lippings are fitted

Doors may be fitted with lippings up to 25mm thick. Where thicker (greater than 6mm) lippings are fitted, leaves may be trimmed on the lipped edges to leave a minimum residual lipping thickness of 3mm.

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. Care must also be taken to ensure glazed aperture margins (100 mm between apertures and leaf edge) are maintained.

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: See glazing tables below
 Margins: 100 mm from the perimeter edge, 80 mm between apertures

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
1181 (at 720 wide)	900 (at 944 high)	0.85
1896 (at 654 wide)	656 (at 1890 high)	1.24

Option 3, aperture dimensions are limited to maximum sight size area of 0.23m². Maximum height of glazed openings for Option 3 doors is 1100 mm.

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)



- **Ladder Frame** - Glazed apertures may use the ladder frame system comprising single glass pane installed within aperture using 23 mm by 20 mm perimeter beads (at 750 kg/m³), with 'planted on' beads of similar size and density forming a ladder frame. Ladder beads to incorporate a 'Therm-a-strip' intumescent between bead and glass.
- Circular and diamond shaped apertures may be used providing the glazing systems used are CERTIFIRE approved.

9. Intumescent Seals

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

Lorient Polyproducts Ltd 100P Intumescent Seals

Doorset Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf doorsets Latched / Unlatched	Head	Single 15 mm wide by 4 mm thick
	Vertical edges	Single 15 mm wide by 4 mm thick
Single-acting Double-leaf doorsets Latched / Unlatched	Head	Single 15 mm wide by 4 mm thick
	Hanging edges	Single 15 mm wide by 4 mm thick
	Meeting edges (Square)	2No. 10 mm wide by 4mm thick, positioned centrally, 12 mm apart, to primary leaf only. Or Single 10 mm wide by 4 mm thick positioned within the meeting edge of each leaf – offset so seals are not directly opposing Or Single 20 mm wide by 4 mm thick positioned centrally to the primary
		Meeting edges (Rebated)
Double-acting, Single-leaf doorsets	Head	Single 15 mm wide by 4 mm thick
	Vertical edges	Single 15 mm wide by 4 mm thick
Double-acting, Double-leaf doorsets	Head	Single 15 mm wide by 4 mm thick
	Hanging edges	Single 15 mm wide by 4 mm thick
	Meeting edges	2No. 10 mm wide by 4mm thick, positioned centrally, 12 mm apart, to primary leaf only. Or Single 10 mm wide by 4 mm thick positioned within the meeting edge of each leaf – offset so seals are not directly opposing Or Single. 20 mm wide by 4 mm thick positioned centrally to the primary



Door assemblies to BS476: Part 22 – classified as FD30 – Any CERTIFIRE approved seal

Doorset configuration	Max. Height (mm)	Max. Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / Unlatched 15 x 4 mm CERTIFIRE approved intumescent seal	2040	926	1.89

Specific Intumescent Detail for Winkhaus Ecoframe

Doorset Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf fitted in Winkhaus Ecoframe (max leaf size 2700 mm high by 1165 mm wide subject to max area of 2.55m ²)	Head	Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504 and single 10 mm wide by 3 mm Lorient Polyproducts Ltd. Seal fitted into frame Or Single 13mm wide by 1mm thick unsheathed, and Single 10mm by 3mm sheathed ISL Therm-A-Seal fitted into frame
	Vertical edges	Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504 and single 10 mm wide by 3 mm Lorient Polyproducts Ltd. Seal fitted into frame Or Single 13mm wide by 1mm thick unsheathed, and Single 10mm by 3mm sheathed ISL Therm-A-Seal fitted into frame

Specific Intumescent Detail when fitted with Multipoint Locksets

Doorset Configuration	Position	Required Intumescent Protection
Single-acting, Single-leaf doorsets up to 2040 mm high by 926 mm wide (incorporating timber frame with three point espagnolette locking system)	Head	Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504
	Hang edges	Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504
	Leading edges	Single 25 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP2504 OR Single 15 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1504 and Single 10 mm wide by 4 mm thick Lorient Polyproducts Ltd. LP1004 fitted into the opposing frame reveal

Seals may be fitted in the edge of the door or frame reveal unless specifically stated otherwise. 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 3 No. per leaf
Type:	Steel, Phosphor bronze or brass butt, journal supported and fixed pin. Any washers or ball bearings to be 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 per blade, minimum No.8 by 32 mm long
Intumescent Protection**	None required.

Speedset / Doorkit Hinge Specifications

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

Number:	3 No. per leaf (minimum)
Type:	Steel, fixed pin.
Positions*:	Maximum 250 mm from the top of door to top hinge. Maximum 250 mm from the bottom of door to bottom hinge. Middle hinge to be positioned centrally in height.
Dimensions:	i) Blade height: Door: 55mm +/- 2mm Frame: 65mm +/- 2mm ii) Blade width: Door: 43mm +/- 2mm Frame: 32mm +/- 2mm iii) Thickness: Door: 2.5mm to 6.5mm Frame: 3mm +/- 0.5mm iv) Knuckle dia.: 12.5 mm (+/- 1 mm)
Fixings:	Min. 3No. steel screws per blade, minimum 4 mm by 40 mm long into door and minimum 4 mm by 25 mm into frame.
Intumescent Protection**	None required.
Door Frame:	Minimum MDF door frame thickness to be 18 mm for all door options

Winkhaus Ecoframe

Min. 3No. Winkhaus Part No. 2837373 hinges to be used, positioned at 150 from top and bottom edges and central stile height.

* 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:	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.

Locks / latches are not permitted in conjunction with rebated meeting stiles.

Espagnolette Locks

'Winkhaus AV2 and AV2e and STV', 'Saracen' and 'Fullex SL16' Multi-point espagnolette locks are approved on this doorset.

The lock mortises must be lined with 2 mm thick Therm-a-flex intumescent sheet and the forend must be bedded on 2 mm thick Therm-a-flex intumescent sheet.

Note: doorsets incorporating espagnolette locks must incorporate a 25 mm by 4 mm thick Lorient Palusol seal within the closing frame jamb.

Espagnolette locks can be used with:

- Hardwood, density 650kg/m³ minimum, section 78mmx57mm minimum
- Engineered softwood timber density 450kg/m³ minimum, section 78mmx75mm minimum
- Winkhaus Ecoframe.
- All single acting single leaf.

Frame specification must be hardwood or engineered softwood of minimum dimensions 78mm by 57mm. Frames may also be Winkhaus Ecoframe. See Section 3 for details.



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.

Double-acting doorsets are to be fitted with a CERTIFIRE approved floor spring and associated hardware and intumescent protection.

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:

- 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.

The use of alternative transom mounted or concealed closers is not permitted

13. Ancillary items

13a Protection plates and signage

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

1. < 2mm thick
2. 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.
3. 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)
4. Plates/signage can be bonded with a thermally softening adhesive. Additionally screws may be used within 50 mm of each corner and no closer than 250 mm spacing on height and width.

13b 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.



13c Flushbolts

Not permitted

13d 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.

13e Air transfer grilles

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

Where apertures are pre-cut by 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 doorset.

Lorient Polyproducts LV25 and LV40 air transfer grilles may be fitted into factory prepared apertures lined with 10 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 minimum 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 uninsulated glazing

13h. Dropseals

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

- Norsound dropseals: Nor810 / Nor810s / Nor810s+ / Nor810dB+ / Varigroove
- Halspan Dropseal Ref: 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 Exova (UK) Limited trading as Warrington Certification (Tel: +44 (0) 1925 646777).

