certifire

CERTIFICATE OF APPROVAL
No CF 575

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

PHILLIPS JOINERY LIMITED

Airfield Industrial Estate, Ashbourne,
Derbyshire DE6 1HA
United Kingdom
Tel: 01335 343614

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	TECHNICAL SCHEDULE
Phillips Joinery Ltd Flamebreak 60 Fire Resisting ITT Timber Door Assemblies	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: 11th February 2008
Re-issued: 29th May 2025
Valid to 13th January 2030

CERTIFICATE No CF 575
PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY 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/doorsets 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 doors comprise tri-laminate hardwood cored, timber framed leaves in various finishes for use with timber frames, with intumescent edge seals (ITT FD60).

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-action, single and double-leaf, latched and unlatched, glazed and unglazed ITT assemblies, with square / unrebated meeting edges at leaf dimensions up to those detailed within Tables 1 and 2 below.

6. Glazing shall only be undertaken by 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 60 minutes.

CERTIFICATE No CF 575
PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED FD60 TIMBER DOOR ASSEMBLIES

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF575 and FD60 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.

Table 1.
Flamebreak 660 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m^2)
Flamebreak 660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 500P 15 mm by 4 mm intumescents (CF356)	2388 (at 1179 wide)	1183 (at 2380 high)	2.82
Flamebreak 660 Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyrostrip 500P (CF356) 15 mm by 4 mm intumescents (frame and one meeting edge) and 1No Pyrostrip 500P (CF356) 30 mm by 4 mm to head	2155 (at 935 wide)	935 (at 2155 high)	2.02
Flamebreak 660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyroplex Rigid Box 15 x 4 mm intumescents (CF355)	2236 (at 936 wide)	971 (at 2156 high)	2.09
Flamebreak 660 Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyroplex Rigid Box 15 x 4 mm intumescents (CF355) (frame and one meeting edge)	2236 (at 936 wide)	971 (at 2156 high)	2.09

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

Double-leaf dimensions given in the table above relate to each leaf.

Both leaves of double-leaf assemblies shall be of identical construction.

CERTIFICATE No CF 575
PHILLIPS JOINERY LIMITED

PHILLIPS JOINERY LIMITED FD60 TIMBER DOOR ASSEMBLIES

Table 2. Flamebreak FF660 Max. Permitted Door Leaf Dimensions for Fire Performance			
Door assembly configuration	**Maximum Height (mm)**	**Maximum Width (mm)**	**Area (m^2)**
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 500P 15 mm by 4 mm intumescents (CF356)	2096 (at 926 wide)	933 (at 2080 high)	1.94
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Lorient Type 617 15 mm by 4 mm Intumescents (CF341)	2177 (at 1028 wide)	1097 (at 2041 high)	2.24
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyroplex Rigid Box 15 mm by 4 mm Intumescents (CF355)	2083 (at 1028 wide)	1049 (at 2041 high)	2.14

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

PHILLIPS JOINERY LIMITED
FD60 FLAMEBREAK TIMBER DOOR ASSEMBLIES
CF 575 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: 1987, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD60 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.

2. Door Leaf Dimensions

This approval is applicable to single-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Tables 1and 2 below.

Table 1.
Flamebreak 660 Maximum Permitted Door Leaf Dimensions for Fire Performance

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m^2)
Flamebreak 660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 500P 15 mm by 4 mm intumescents (CF356)	2388 (at 1179 wide)	1183 (at 2380 high)	2.82
Flamebreak 660 Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyrostrip 500P (CF356) 15 mm by 4 mm intumescents (frame and one meeting edge) and 1No Pyrostrip 500P (CF356) 30 mm by 4 mm to head	2155 (at 935 wide)	935 (at 2155 high)	2.02
Flamebreak 660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyroplex Rigid Box 15 x 4 mm intumescents (CF355)	2236 (at 936 wide)	971 (at 2156 high)	2.09
Flamebreak 660 Single-Acting, Double-Leaf Latched / Unlatched 2No. Pyroplex Rigid Box 15 x 4 mm intumescents (CF355) (frame and one meeting edge)	2236 (at 936 wide)	971 (at 2156 high)	2.09

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

Double-leaf dimensions given in the table above relate to each leaf.

Both leaves of double-leaf assemblies shall be of identical construction.

Table 2. Flamebreak FF660 Max. Permitted Door Leaf Dimensions for Fire Performance			
Door assembly configuration	**Maximum Height (mm)**	**Maximum Width (mm)**	**Area (m^2)**
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyrostrip 500P 15 mm by 4 mm intumescents (CF356)	2096 (at 926 wide)	933 (at 2080 high)	1.94
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Lorient Type 617 15 mm by 4 mm Intumescents (CF341)	2177 (at 1028 wide)	1097 (at 2041 high)	2.24
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched 2No. Pyroplex Rigid Box 15 mm by 4 mm Intumescents (CF355)	2083 (at 1028 wide)	1049 (at 2041 high)	2.14

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:-

Hardwood (excluding Ash, Beech & Iroko)	i) Density:	640 kg/m^3 min.
	ii) Dimensions:	70 mm by 32 mm min.
	iii) Door Stop:	12 mm deep pinned, screwed or rebated from solid. Where the stop is rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
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. Please note that a reduced threshold gap may be required to comply with smoke leakage requirements.	

4. Overpanels / Sidepanels

Framed overpanels incorporating a transom rail 32 mm thick (minimum) hardwood (excluding Ash, Beech and Iroko), may be included up to a maximum size of 1000 mm high

Framed sidepanels including a mullion 32 mm thick (minimum) hardwood (excluding Ash, Beech and Iroko), may be included up to maximum width of 1000 mm
Framed overpanels/sidepanels to be manufactured as per any of the door leaf specifications but may omit all stiles and rails. Panels should be bedded against beads or the stop of the rebate and be screw fixed at minimum 400 mm centres.

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

5. Glazed Fanlights

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 or steel stud of minimum thickness 85 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 as recommended by the partition manufacturer. Where brick, block, masonry walls are plasterboard faced, the plasterboard adjacent to the door assembly shall be mechanically fixed to ensure that it remains in-situ for the required integrity period.

7. 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 fixings at maximum 600 mm centres penetrating the wall to at least 50 mm. Timber based 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.

8. Leaf Size Adjustment

8.1 Flamebreak 660

The Flamebreak 660 design has been tested in single & double leaf configuration both with & without stiles & bottom rails. This therefore permits the door leaves to be reduced in height and/or width without restriction, providing that reduction in height is made from the bottom edge only & the top rail remains in position. One or both stiles may be reduced or totally removed to achieve the required width.

Flamebreak 660 blanks may therefore be trimmed to fit the frame by the following maximum amounts:

- Top: 3 mm
- Bottom: Unlimited*
- Vertical edges: Unlimited*

* The bottom rail and stiles can be removed completely, but the door must be lipped to all edges in accordance with Section 9.

8.2 Flamebreak FF660

The Flamebreak FF660 design has been tested in single & double leaf configuration both with & without bottom rails. This therefore permits the door leaves to be reduced in height without restriction, providing that reduction in height is made from the bottom edge only & the top rail remains in position.

Flamebreak FF660 blanks may therefore be trimmed to fit the frame by the following maximum amounts:

- Top: 3 mm
- Bottom: Unlimited*
- Vertical edges: 3 mm

* The bottom rail can be removed completely, but the door must be lipped to all edges in accordance with Section 9.

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.

9. Lippings

General lipping notes:

- All Flamebreak 660 and Flamebreak FF660 blanks shall be lipped to all four edges.
- Lippings shall be applied by Phillips Joinery Limited.

Standard Lippings	
Material:	Solid hardwood (excluding Ash, Beech & Iroko)
Density:	640 kg/m^3 minimum
Thickness:	Minimum 10 mm Maximum 20 mm
Adhesive:	Urea Formaldehyde or PVA

T-Shaped Lippings – Single Action, Single Leaves only	
Material:	Solid hardwood (excluding Ash, Beech & Iroko)
Density:	640 kg/m^3 minimum
Thickness:	18 mm thick
Adhesive:	Urea Formaldehyde or PVA
Notes:	T-Shaped lippings shall only be applied to single-action, single-leaves.
	T-Shaped lippings incorporate an 8 mm deep by 25 mm wide tongue, which is inserted into a corresponding groove within the blank perimeter, to create a tightly fitting joint.

10. Glazed Apertures

All apertures to be factory prepared by 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 glazed area of 0.39 m^2 per leaf
Margins: 150 mm from the perimeter edge, 150 mm between apertures

Maximum Permitted Aperture Dimensions		
Maximum Height (mm)	**Maximum Width (mm)**	**Maximum Area (m^2)**
650 (at 600 wide)	650 (at 600 high)	0.39

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

Double-leaf door assemblies with equal width leaves shall both be similarly glazed.

Tall / Narrow Vision Panels – Pyrobelite 12 Glass

In addition to the above scope, the use of a single tall / narrow vision panels is permitted in accordance with the following maximum dimensions and specification requirements:

Aperture Height:	Maximum 1850 mm (at 200 mm wide)
Aperture Width:	Maximum 247 mm (at 1500 mm high)
Aperture Area:	Maximum glazed area of 0.37 m^2 per leaf Maximum glazed area of 0.37 m^2 per aperture
Glass Type:	Pyrobelite 12
Intumescent System:	Intumescent Seals, Therm-A-Glaze 60 comprising 2No. 25 mm by 4 mm Therm-A-Bead seals and a 54 mm by 2 mm Therm-A-Line aperture liner
Bead Dimensions:	33 mm high by 26 mm wide bolection bead including a 9 mm high by 5 mm wide bolection detail. The bead shall incorporate a minimum 27 degree splay, and an edge cover of 19 mm (+2/-1 mm) shall be maintained.
Bead Specification:	Hardwood of minimum density 640 kg/m^3 (excluding Ash, Beech & Iroko)
Fixings:	60 mm long pins at maximum 150 mm centres, maximum 30 mm in from the corners, fixed at 35-40° to the face of the glass.
Margins	Tall / Narrow apertures require a minimum 190 mm margin from the top of the vision panel cut out to the top edge of the door leaf and a minimum 192 mm margin from the vertical edge of the vision panel cut out to the adjacent vertical leaf edge.
Notes:	Hardwood or non-combustible setting blocks will be used to establish the correct edge cover.
	Double-leaf door assemblies with equal width leaves shall both be similarly glazed.

Alternatively, the door leaf may incorporate a 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 above for tall / narrow apertures (whichever is smaller):

11. 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

Lorient Type 617 Intumescent Seals (CF341)

Door Assembly Configuration	Position	Required Intumescent Protection
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched (max. 2177 mm high or 1097 mm wide – 2.24 m^2 max. area)	Head	2No. 15 mm wide by 4 mm thick (fitted 7 mm and 32 mm from the opening face of the frame - 10 mm apart)
	Vertical	2No. 15 mm wide by 4 mm thick (fitted 7 mm and 32 mm from the opening face of the frame - 10 mm apart)

Pyroplex Rigid Box Intumescent Seals (CF355)

Door Assembly Configuration	Position	Required Intumescent Protection
Flamebreak 660 Single-Acting, Single-Leaf Latched / Unlatched (max. 2236 mm high or 971 mm wide – 2.09 m^2 max. area)	Head	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Vertical	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
Flamebreak 660 Single-Acting, Double-Leaf Latched / Unlatched Square meeting edges (max. 2236 mm high or 971 mm wide – 2.09 m^2 max. area)	Head	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Hanging	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Meeting edges	2No. 15 mm wide by 4 mm thick in primary leaf only (fitted centrally 8mm apart)
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched (max. 2083 mm high or 1049 mm wide – 2.14 m^2 max. area)	Head	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Vertical	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)

Mann McGowan Pyrostrip 500P Intumescent Seals (CF356)

Door Assembly Configuration	Position	Required Intumescent Protection
Flamebreak 660 Single-Acting, Single-Leaf Latched / Unlatched (max. 2388 mm high or 1183 mm wide – 2.82 m^2 max. area)	Head	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Vertical	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
Flamebreak 660 Single-Acting, Double-Leaf Latched / Unlatched Square meeting edges (max. 2155 mm high or 935 mm wide – 2.02 m^2 max. area)	Head	1No. 30 mm wide by 4 mm thick (fitted centrally)
	Hanging	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Meeting edges	2No. 15 mm wide by 4 mm thick in primary leaf only (fitted centrally 8mm apart)
Flamebreak FF660 Single-Acting, Single-Leaf Latched / Unlatched (max. 2096 mm high or 933 mm wide – 1.94 m^2 max. area)	Head	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)
	Vertical	2No. 15 mm wide by 4 mm thick (fitted centrally 10 mm apart)

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

Seals may be interrupted at hinge and latch positions.

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

12. Hinges

Hinges shall be CE Marked against EN 1935 for use on 60 minute timber fire doors

Number:	3No. per leaf (minimum)	
Type:	Steel butt, journal supported fixed or loose pin. Any washers or ball bearings to be of steel.	
Positions*:	Top hinge:	200 mm from the top of the leaf (±25 mm)
	Middle hinge:	The mid-height of the door leaf (±50 mm)
	Bottom hinge:	262 mm from the bottom of the leaf (±25 mm)
Dimensions:	Blade height:	100 mm (+/- 20%)
	Blade width:	35 mm (+/- 2mm
	Blade thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	14 mm (+/- 1mm)
Fixings:	Minimum 4 No. steel screws	
	Minimum M5 x 30 mm	
Intumescent: protection**	1 mm Interdens sheet material behind each blade	

* 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 in the table above (excluding the tolerances stated). Where the Certifire approved hinge exceeds the specification given in the table 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.

Double-action hinges are not permitted for use with CERTIFIRE approved door assemblies.

Projection hinges and rising / falling butt hinges are not permitted for use with CERTIFIRE approved door assemblies,

13. Locks and Latches

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

Tubular latches	
Case dimension:	Maximum 20.5 mm high by 14.5 mm wide by 76 mm deep
Forend dimension	Maximum 57 mm high by 27 mm wide
Keep dimension:	Maximum 57 mm high by 20.5 mm wide (excluding lip)
Latchbolt material:	Steel or brass
Position:	Max. 1100 mm from bottom of door to centreline of lockcase
Intumescent protection*:	1 mm Interdens sheet material wrapped around the case and behind the forend and keep.
Configuration	Square / unrebated meeting edges only**
Note:	Tubular latches may be used with standard Lippings or T-Shaped lippings, but please note where T-shaped lippings are utilised the door assembly configuration shall be limited to single-action, single leaves only.

DIN Standard Locks / latches – Single-action, Single-Leaves Only	
Case dimension:	Maximum 165 mm high by 22 mm wide by 85 mm deep
Forend dimension	Maximum 235 mm high by 22 mm wide by 2 mm thick
Keep dimension	Maximum 180 mm high by 24 mm wide by 1.5 mm thick (excluding lip).
Latchbolt material:	Steel or brass
Cylinder:	Euro profile single cylinder, double cylinder or cylinder / thumbturn, suitable for use on FD60 fire resistant assemblies in accordance with EN 1303.
Position:	Maximum 935 mm from bottom of door to centreline of spindle
Intumescent protection*:	2 mm thick Interdens intumescent sheet material wrapped around the case and behind the forend and keep.
Configuration	Single action, single leaves only
Note:	DIN Standard locks / latches shall be used with T-shaped lippings only and therefore shall be utilised on single-action, single leaves only.

* 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.

** The use of rebated meeting stiles is not permitted.

<u>The following points relate to all locks & latches discussed within this section of the Data Sheet:</u>

- Recessing for locks shall result in a tight fit, allowing for the intumescent protection specified.
- No restriction on type and material of face fixed mechanical lever handles and knobs providing these are wholly surface mounted (with the exception of the spindle and fixing holes) and the spindle hole is a maximum 16 mm in diameter
- The Euro profile cylinder recess in the door face shall follow the shape of the cylinder and result in a tight fit. The preparation for single cylinders shall penetrate through only half the thickness of the door leaf. Wholly surface mounted steel cylinder escutcheons Ø52 mm by 6 mm thick may be utilised.
- The use of oval profile cylinders is not permitted.
- Where doorsets are required to be latched, the use of roller latches is not permitted.
- The use of mechanical locks in conjunction with electromechanical handles must be either CERTIFIRE approved for the application or subject to specific appraisal.
- The use of electric strikes/electromechanical locks is not permitted

14. 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.

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 a minimum 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.

Uninsulated glass shall not be included directly below the body of surface mounted overhead closers.

14a. Surface mounted overhead closers

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

14b. Transom Mounted and Concealed Closers

Not permitted

14c. Floor Springs

Not permitted

15. Ancillary items

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

15a. Protection plates and signage

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

- < 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.

15b. Flushbolts

Not permitted

15c Barrel bolts

Secondary leaf may be secured with surface mounted bolts, attached to either the opening or closing face, providing they are screw fixed only, and not bolted through the full thickness of the door. Barrel bolts shall not encroach into the door/frame gap

15d. 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 fixings are of steel and maximum bolt to bolt centres do not exceed 1000 mm.

A maximum 15 mm diameter recess is permitted for through bolt fixings.

Bolt through fixings will require intumescent protection in the form of a 1 mm thick graphite tube, or Intumescent mastic to the full depth of the recess.

15e. 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, and 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.

15f. 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.

15g. Door Viewers

Door viewers may be fitted into the leaf providing the viewer comprises an all steel construction, with the exception of the optical lens, which shall be glass.

The door viewer will not be positioned higher than 1500 mm from the threshold to the centreline.

The door viewer will have an external diameter of not greater than 14 mm and will be fully lined with 2 mm thick interdens or 2 mm thick graphite based intumescent sheet material.

The door viewer complete with intumescent protection will be tightly fitted within the door leaf.

15h. 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

15i. Dropseals

Dropseals are to be CERTIFIRE approved with maximum dimensions 14 mm by 35 mm high.

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 in Section 3 are to be maintained

15j. Electric Strikes / Electro mechanical locks

Not permitted

15k. Planted Mouldings

Door leaves may incorporate wholly surface mounted planted mouldings to one face providing the mouldings do not cover more than 25% of the door face.

Door leaves may also incorporate wholly surface mounted planted mouldings to both faces providing the mouldings do not cover more than 25% in total when combining the area of planted mouldings applied to each door faces.

Where mouldings are applied to one or both faces the mouldings shall not increase the mass of the door leaf by more than 25%.

The mouldings shall be softwood/hardwood (min 450kg/m^3) or MDF (min 610 kg/m^3) and have maximum overall dimensions of 60 mm wide by 25 mm thick and be of any profile.

Mouldings shall be bonded to the door faces with PU or PVA adhesive. Optionally the moulding may also be pinned using maximum 18g by 30 mm long steel pins as required.

15l. Edge Protectors

Not permitted

16. Further Information

Further information regarding the details contained in this data sheet may be obtained from Phillips Joinery Ltd (Tel: 01335 343614).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from Warringtonfire Testing and Certification (Tel: +44 (0) 1925 646777).