



CERTIFICATE OF APPROVAL

No CF 6146

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

MORLAND UK

**UNIT 10, Buttington Cross Enterprise Park,
Welshpool, Powys, SY21 8SL, United Kingdom**

Tel: 01938 551980

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 PAS24 Doorset

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 May 2023
Audit Test Frequency: Every 5 years
Valid to: 23rd May 2028



CERTIFICATE No CF 6146 MORLAND UK

Morland UK – FD30 PAS24 Doorset

This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation 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 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 cellulosic cored, timber leaves, in various finishes for use with timber frames, with intumescent edge seals (code ITT FD30).
4. This approval is applicable to complete doorsets. 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-leaf, glazed, latched, ITT door assemblies at leaf dimensions up to those given in Table 1 below:

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched	2040 mm high (at 926 mm wide)	926 mm wide (at 2040 mm high)	1.89

Table 1.

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

6. Glazing shall not be included within these doors.
7. Hardware items, including closing devices and intumescent fire seals, shall as specified in the Data Sheet.

Signed
E/219



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8. The door assembly shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.

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9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF 6146 and FD30 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.

Signed
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CF 6146 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 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 30 minutes 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 Morland UK may be considered to meet the requirements in respect of those items.

2. Door Leaf Dimensions

This approval is applicable to single-action, single-leaf, latched, assemblies at leaf dimensions up to those detailed within Table 1 below:

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Single-Acting, Single-Leaf Latched	2040 mm high (at 926 mm wide)	926 mm wide (at 2040 mm high)	1.89

Table 1.

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

3. Door Frame

To be in accordance with the following specification:

Manufacturer:	Morland UK	
Material	Blockboard (solid)	
Density:	600 kg/m ³ minimum	
Dimensions:	98 mm wide by 55 mm thick with a 59 mm wide by 17 mm deep rebate.	
Jointing:	Mitre jointed, with 2 No. screw fixings through the frame head / jambs.	
Door to frame gaps:	Top and vertical edges	Not to exceed 3.5 mm.
	Threshold	Not to exceed 8 mm

4. Overpanels / Sidepanels

Not permitted

5. Glazed Fanlights

Not permitted

6. Supporting Construction

The door assemblies are approved to be installed in brick, block, masonry, timber or steel stud supporting constructions of minimum overall thickness 98 mm, providing at least 30 minutes fire resistance and previously proven capable of supporting a fire door assembly for the required integrity performance.

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 softwood or hardwood which shall be continuous and of minimum width, 98mm. 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 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.

On-site trimming of the door leaves is not permitted.

8. Glazed Apertures

Not permitted.

9. Intumescent Seals

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

For door assemblies to BS476: Part 22 – 30 Minutes Integrity

Door Assembly Configuration*	Position	Required Intumescent Protection
Single-acting Single-leaf Latched	Frame Jamb & Head	Single 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 500P seal positioned 8.5 mm from the opening face of the frame, within the frame reveal & Single 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 500PSS seal positioned 31.5 mm from the opening face of the frame, within the frame reveal

*See Table 1 for size restrictions

Latched, single acting, single-leaf, CF6146 door assemblies, with maximum leaf dimensions 2040 mm high by 926 mm wide, when hung within blockboard based frames, may utilise alternative Intumescents in-line with the relevant CERTIFIRE approval for the proposed intumescent seal, subject to compliance with the quantity, size and location, stated in the table above. All seals to be CERTIFIRE approved to Technical Schedule 35.

Intumescent seals may be interrupted at the hinge and latch positions.

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

10. Door Frame Seal

The Exitex, Aquatex A10 door frame seal may be fitted to the frame jambs and head, mounted on the stop such that the door leaf perimeter edges contact the seal when in the closed position.

The Aquatex A10 seal shall not be interrupted by hardware.

Please note that the Aquatex A10, is not a CERTIFIRE approved smoke seal (TS21), and therefore the performance of this seal, is not considered by this certificate.

11. Hinges

Hinges shall be CE marked against EN 1935 for use on 30 minute timber fire door assemblies in accordance with the following specifications:

Quantity:	4 minimum		
Hinge Positions:*	Top hinge:	Maximum 251 mm from the top of the door	
	2 nd & 3 rd hinge:	Positioned equally between the top and bottom hinges and each other.	
	Bottom hinge:	Maximum 259 mm from the bottom of the door	
Dimensions:	Blade height:	102 mm (+/- 20%)	
	Blade width:	31 mm (+/- 2 mm)	
	Blade thickness:	3 mm (\pm 0.5 mm)	
	Knuckle Ø:	14 mm (\pm 1 mm)	
Fixings:	Quantity:	4 No. steel CSK wood screws per blade	
	Size:	Door leaf:	2No 5 mm Ø by 30 mm long screws and 2No 5 mm Ø by 60 mm long screws to all hinge blades
		Frame:	4No 5 mm Ø by 25 mm long screws to all hinge blades
Intumescent protection:	1 mm thick by 30 mm wide by 100 mm high Therm-A-Strip hinge pad to all hinge blades.		

* The datum in all cases is the centreline of the hinge.

** The hinge specification above overrides any requirement for additional intumescent identified in the hinge manufacturer's certification providing the hinge specification falls within the parameters identified in the table 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.

12. Electromechanical locks

Door assemblies shall be fitted with an electromechanical lock and accessories only in accordance with the following specifications:

Lock case:	Supplier:	NSP Security		
	Reference:	SMF-EPIC-LH/RH – Lock case		
	Material:	Case:	Steel	
		Latch bolt:	Zamak	
		Lock bolt:	Steel	
	Dimensions:	Lock case	155 mm high by 109 mm deep by 24 mm wide	
		Forend:	205 mm high by 28.5 mm wide by 5 mm thick	
		Latch bolt:	25 mm high by 18.5 mm wide by 18 mm Projection	
		Lock bolt:	28.5 mm high by 12 mm wide by 26 mm Projection	
	Fixings:	2No. 3.9 by 20 mm CSK Pozi to Lock		
	Position:	Maximum 1000 mm from the bottom of door to centreline of lever.		
	Configuration:	Engaged latch bolt Engaged / disengaged lock bolt		
	Intumescent protection:	Lock case:	Fully wrapped in 1 mm thick Interdens	
		Forend:	None required	
Notes:	Recessing for lock case & forend shall result in a tight fit.			

Control box / Battery case:	Supplier:	NSP Security		
	Reference:	SMF-EPIC-LH/RH – Control box / Battery case		
	Material:	Steel & Plastic		
	Dimensions:	Case:	88 mm high by 117 mm deep by 21 mm wide	
		Forend:	130 mm high by 28.5 mm wide by 5 mm thick	
	Fixings:	2No. 3.9 by 20 mm CSK Pozi to Control Box / Battery Case		
	Intumescent protection:	Control box / Battery case:	Fully wrapped in 1 mm thick Interdens	
		Forend:	None required	
Notes:	Recessing for Control box/battery case & forend shall result in a tight fit.			

Keep:	Supplier:	NSP Security		
	Reference:	SMF-EPIC-LH/RH – Keep		
	Material:	Strike:	Stainless Steel	
		Dust box:	Plastic	
	Dimensions:	Strike plate:	130 mm high by 32 mm wide by 1.5 mm thick with 85 mm high by 13 mm wide latch plate lip	
		Dust box:	130 mm high by 32 mm wide by 28 mm thick	
	Fixings:	2No. 3.9 by 20 mm CSK Pozi to keep / strike plate		
	Intumescent protection:	None required		
Notes:	Recessing for keeps shall result in a tight fit.			

Cylinder:	Supplier:	NSP Security	
	Reference:	SMF-EPIC-LH/RH - Cylinder with thumbturn	
	Material:	Cylinder:	Brass

	Escutcheon:	Stainless steel
Dimensions:	Cylinder:	29 mm Ø by 26 mm thick
	Escutcheon:	52 mm Ø by 10 mm deep by 1.5 mm thick
Intumescent protection:	None required	
Notes:	The cylinder recess in the door face shall be 26 mm deep and shall follow the shape of the cylinder and result in a tight fit. The cylinder recess shall not extend through the full thickness of the door leaf.	

Lever handles:	Supplier:	NSP Security		
	Reference:	SMF-EPIC-LH/RH – Lever handles		
	Material:	Stainless steel		
	Dimensions:	Lever:	130 mm long by 23 mm Ø by 65 mm projection	
		Rose:	52 mm Ø by 10 mm	
	Fixings:	2No. M4 by 30 mm steel setscrew & captive nut to lever handles		
Intumescent protection:	None required			

Escutcheon:	Supplier:	NSP Security	
	Reference:	SMF-EPIC-LH/RH – Escutcheon	
	Material:	Stainless steel	
	Dimensions:	40 mm Ø by 8 mm deep by 1.5 mm thick	
	Location:	98.5 mm below lever on external face only	
	Fixing method:	screw fixed onto the cylinder	
	Intumescent protection:	None required	

13. Overhead Closers

All door assemblies are required to be fitted with a CERTIFIRE certificated self-closing device.

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.

Closers shall be CE Marked against EN 1154 and categorised as grade 1 – suitable for use on fire / smoke door assemblies.

13a Surface mounted overhead closers

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

13b Concealed Closers

Not permitted

13c Transom Mounted

Not permitted

13d Floor Springs

Not permitted

14. Ancillary items

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

14a Pull Handles

Not permitted

14b Flushbolts

Not permitted

14c. Air transfer grilles

Not permitted

14d Protection Plates and Signage / Numerals

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, countersunk screws may be used with maximum dimensions of 4.5 mm Ø by 25 mm long.
- Plates in accordance with the rules above may be applied to one / both door leaf faces as required.

14e. Threshold

Thresholds where required shall be in accordance with the specification below:

Material:	Hardwood
Density:	670 kg/m ³ minimum
Overall dimensions:	Minimum 98 mm wide by 20 mm thick
Profile:	Rectangular only – splays are not permitted
Fixing:	2 No. screw fixings through the threshold, into each frame jamb.

14f. Door Viewers

Door viewers where required shall be in accordance with the specification below:

Supplier:	Carlisle Brass	
Reference:	180 Degree Stainless Steel Door Viewer C/W Shutter, FR	
Material:	Sleeve / barrel:	Stainless steel
	Lens:	Glass
Overall dimensions:	28 mm Ø by 34 - 55 mm (adjust to leaf thickness) – 14 mm Ø barrel	

Position:	Upper viewer:	Maximum 1500 mm from the bottom edge of the door leaf, centrally within the door leaf width.
	Lower viewer:	A second door viewer may be fitted subject to a minimum 200 mm margin being maintained between door viewer recesses. The second door viewer shall be fitted centrally within the door leaf width.
	Note:	A minimum 200 mm margin shall be maintained between door viewer recesses.
Intumescent protection:	None required	

Recessing for door viewers shall result in a tight fit.

14g. Letter Plates

Letter plates where required shall be in accordance with the specification below:

Supplier:	UAP	
Description:	Soterian Letter plate	
Reference:	UAP Soterian TS008 LP	
Overall dimensions:	Letter plate body size:	305 mm by 77 mm by 16 mm
	Letter plate cut out size:	263 mm by 58 mm
	Letter plate footprint:	300 mm by 110 mm by 97 mm
	Security cowl:	300 mm by 115 mm by 35 mm (75 mm projection)
Position:	Letter plates are to be positioned centrally within the leaf width, at a height of 540 mm from the bottom of the door to the top of the letter plate.	
Quantity:	Maximum 1 No letter plate shall be fitted to each door leaf.	
Orientation:	Letter plates are to be installed in a horizontal orientation only.	
Intumescent protection:	FD30 Graphite intumescent kit as supplied with the letter plate by UAP	
Fixing:	6No. No.6 by 25 mm steel wood screws and 4No. M6 by 25 mm hex socket cap bolts as supplied by UAP with letter plate	
Installation:	Where letter plates are fitted, the aperture for a letter plate may be formed on site by NON-CERTIFIRE approved staff	

Alternative letter plates may be fitted subject to the letter plate being 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. The alternative CERTIFIRE approved letter plate shall be approved for fitment at the required height of 540 mm from the bottom of the door to the centre line of the letter plate as stated in the table above.

14h. Dropseals

A Norseal, Norsound NOR810 automatic dropseal seal may be fitted centrally in the bottom edge of the door leaf (Intumescent protection is not required).

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

Alternative CERTIFIRE approved dropseals may be utilised subject to the dropseal dimensions not exceeding 35 mm high by 14 mm wide (intumescent protection is not required).

14i. Coat Hooks, Door Knockers, Security Chains 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

14j. Electric Strikes

Not permitted

15. Further Information

Further information regarding the details contained in this data sheet may be obtained from Morland UK (Tel: 01938 551980).

Further information regarding the CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).