
CERTIFICATE OF APPROVAL

No CF 5655

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

NEWMOR GROUP LTD T/A MORLAND

Unit 10 Buttington Cross Ent. Park, Welshpool, SY21 8SL
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
Morland FD60 ITT Door
Assemblies

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



Paul Duggan
Certification Manager

Issued: 26th September 2018
Next audit test due: 26/09/2023
Frequency: Every 5 years
Valid to: 25th September 2023



CERTIFICATE No CF 5655

NEWMOR GROUP LTD T/A MORLAND

MORLAND FD60 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 blanks comprise cellulosic cored leaves in various finishes for use with timber or MDF 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 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-acting, single and double-leaf ITT assemblies and double-acting, double-leaf ITT assemblies, latched and unlatched at leaf dimensions up to those given in Table 1 and Table 2. Double-leaf door assemblies incorporating unequal sized door leaves are also permitted, as detailed within the data sheet.
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 edge seals, shall be CERTIFIRE approved or otherwise 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.

MORLAND FD60 DOOR ASSEMBLIES

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9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5655 and FD60 classifications resistance shall be affixed to each door in the in the prescribed position.
10. This approval relates to the 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.

Mann McGowan Pyrostrip 500P & 500PSS intumescents

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched / unlatched	2540 (at 1174 wide)	1174 (at 2540 high)	2.98

Table 1. Maximum Permitted Door Leaf Dimensions

Lorient Polyproducts Type 617 intumescents

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m ²)
*Single-Acting, Single-Leaf Latched / Unlatched	2928 (at 926 wide)	963 (at 2815 high)	2.71
	2452 (at 1235 wide)	1238 (at 2446 high)	3.03
*Single-Acting, Double-Leaf Latched / Unlatched	2144 (at 915 wide)	919 (at 2135 high)	1.96
*Double-Acting, Double-Leaf	2200 (at 915 wide)	943 (at 2135 high)	2.01

Table 2. Maximum Permitted Door Leaf Dimensions

* 2 mm thick ABS / Hardwood lippings are not permitted for use in accordance with table 2.

Under no circumstances must either the maximum height or maximum width as stated in tables 1 and 2 be exceeded without separate CERTIFIRE approval.

CF 5655 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 uninsulating glass) as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD60 door assemblies 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 Newmor Group Ltd T/A Morland 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 ITT assemblies and double-acting, double-leaf ITT assemblies, latched and unlatched at leaf dimensions up to those given in Table 1 and Table 2. Double-leaf door assemblies 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.

Mann McGowan Pyrostrip 500P & 500PSS intumescents

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Area (m²)
Single-Acting, Single-Leaf Latched / unlatched	2540 (at 1174 wide)	1174 (at 2540 high)	2.98

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Table 2. Maximum Permitted Door Leaf Dimensions

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 - Single acting door assemblies

- i) Density: 640 kg/m³ minimum – excluding Ash, Iroko and Beech
- ii) Dimensions: Rebated frame 70 mm wide by 44 mm thick minimum complete with 12 mm deep integral rebate
Lining & planted stop 70 mm wide by 32 mm thick minimum complete with 12 mm thick planted stop. Stop to be glued and pinned or glued and screwed (min stop density 640 kg/m³).

Hardwood - Double acting door assemblies

- i) Density: 640 kg/m³ minimum – excluding Ash, Iroko and Beech
- ii) Dimensions: 70 mm by 32 mm min.

***MDF - Single acting door assemblies only with exposed 500P intumescents**

- i) Density: 680 kg/m³ min.
 - ii) Dimensions: Rebated frame 90 mm wide by 42 mm thick minimum complete with 12 mm deep integral rebate
Lining & planted stop 90 mm wide by 30 mm thick minimum complete with 12 mm thick planted stop. Stop to be glued and pinned or glued and screwed (min stop density 680 kg/m³).
- 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 4.0mm except at threshold where up to 8 mm is permitted and 3.5 mm at the meeting stiles

* MDF frames may be wrapped in veneer maximum 1 mm thick or paper, PVC or CPL at maximum 180 microns where required, however please note intumescents must be graphite by Mann McGowan in accordance with CF356 and are to remain exposed.

Under no circumstances can intumescents be concealed behind wrapped decorative material.

4. Overpanels /Sidepanels

Transomed overpanels, manufactured to the same specification as the door leaves, may be included up to 500 mm high, with a minimum 44 mm thick Hardwood transom rail with a minimum density of 640kg/m³. The use of Ash, Iroko or Beech transom rails is not permitted.

Mullioned sidepanels, manufactured to the same specification as the door leaves, may be included up to 500 mm wide, with a minimum 44 mm thick Hardwood mullion with a minimum density of 640kg/m³. The use of Ash, Iroko or Beech mullions is not permitted.

Overpanels and sidepanels without transoms or mullions are not permitted.

5. Glazed Fanlights



Any CERTIFIRE approved glazing systems may be used providing the specification and installation details given in the appropriate certification documents and the max sizes stated in section 4 are adhered to (whichever is smaller).

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.

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. 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 the installations have been conducted by knowledgeable contractors, to appropriate standards, thereby increasing the reliability of the anticipated performance in fire.

Door leaves with min 6 mm thick hardwood lippings may be trimmed to fit the frame by the following max amounts:

- Stiles (each): 3 mm
- Top: 3 mm
- Bottom: 3 mm if bottom lipping is fitted
Unlimited if bottom lipping is not fitted.

Doors with ABS lippings cannot be trimmed, with the exception of the bottom edges. Where a lipping has not been fitted the bottom edge of the door may be reduced without limit. Where a lipping is fitted to the bottom edge any reduction would require the bottom edge ABS lipping to be fully removed, subject to this the bottom edge of the door may be reduced without limit.

ABS Bottom lippings may not be reapplied on site.

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.

8. Glazed Apertures

All apertures to be factory prepared by Newmor Group Ltd, Trading as Morland, or a CERTIFIRE
NEWMOR GROUP LTD T/A MORLAND
Data Sheet CF5655



approved Licensed Door Processor. **No site cutting of apertures permitted as this will invalidate the certification.**

Aperture dimensions: Doors may incorporate one or more vision panels to the maximum sizes identified in the table below:

Area: Maximum total glazed area of 1.07 m² per leaf

Margins: 100 mm from the perimeter edge, 100 mm between apertures.

Maximum Permitted Aperture Dimensions		
Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m ²)
1733 (at 616 wide)	770 (at 1386 high)	1.07
676 (at 769 wide)	795 (at 654 high)	0.52

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

Non-Insulating glasses: 6 mm Pyroshield Safety, 7mm Pyrostem glass or other CERTIFIRE approved glass subject to the conditions of the glass certificate

Intumescent System	Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Lorient Polyproducts Ltd System 90+ with a 54 x 2 mm Palusol liner. Pyroshield Safety or Pyrostem	22 mm high by min 18 mm wide with a 45° splay (including a 5 mm by 5 mm bolection) 22 mm +0/-1 mm edge cover	Hardwood Min. 640 kg/m ³ excluding Ash, Iroko and Beech	No.6 x 45 mm long screws at max 150 mm centres, max. 50 mm in from corners,	676 (at 769 wide)	795 (at 654 high)	0.52 m ²
Lorient Polyproducts Ltd System 90+ with a 54 x 2 mm Palusol liner Pyrostem only	22 mm high by min 18 mm wide with a 45° splay (including a 5 mm by 5 mm bolection) 22 mm +0/-1 mm edge cover	Hardwood Min. 640 kg/m ³ excluding Ash, Iroko and Beech	No.6 x 45 mm long screws at max 150 mm centres, max. 50 mm in from corners,	1733 (at 616 wide)	770 (at 1386 high)	1.07 m ²

Insulating glasses: 23 mm Pyroguard EI 60 glass or other CERTIFIRE approved glass subject to the conditions of the glass certificate

Intumescent System	Bead dimensions (mm)	Bead Density	Fixings	Max. Height (mm)	Max. Width (mm)	Max. Area (m ²)
Pyroplex 25 x 4 mm 30095 glazing strip with a 54 x 2 mm Pyroplex 30096 liner	25 mm high by min 13 mm wide flush bead with a 20° splay of left square. (A bolection detail can be added to the above min bead dimensions). 22 mm +2/-1 mm edge cover	Hardwood Min. 640 kg/m ³ excluding Ash, Iroko and Beech	64 mm long pins or air fired brads or No.6 x 64 mm long screws at max 180 mm centres, max. 50 mm in from corners.	768 (at 585 wide)	624 (at 720 high)	0.45 m ²



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 stated within CF5655 (whichever is smaller):

9. 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

Mann McGowan Pyrostrip 500P / 500PSS Graphite intumescent – MDF frames

Exposed Mann McGowan Pyrostrip 500P / 500PSS graphite Intumescent are required in conjunction with MDF frames. The intumescent must not be concealed by the decorative finishes approved in section 3 of the data sheet.

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf door assemblies	Frame Head	2No 15 mm wide by 4 mm thick positioned centrally, 8 mm apart
	Frame Jambs	2No 15 mm wide by 4 mm thick positioned centrally, 8 mm apart

Note: See table 1 for leaf size restrictions

Lorient Polyproducts Type 617 intumescent – Hardwood frames

Door assembly Configuration*	Position	Required Intumescent Protection
Single-acting Single-leaf door assemblies	Frame Head	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
	Frame Jambs	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
Single-acting Double-leaf door assemblies	Frame Head	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
	Frame Jambs	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
	Meeting edge (primary leaf only)	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
Double-acting Double-leaf door assemblies	Frame Head	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
	Frame Jambs	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart
	Meeting edge (primary leaf only)	2 No. 15 mm wide by 4 mm thick positioned centrally, 10 mm apart

Note: See table 2 for leaf size restrictions

Seals may be interrupted at hinge and latch positions.



Intumescent strips cannot be changed from the specific size type and location specified within the CF5655 data sheet.

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 60 minute timber fire door assemblies.

Number:	Minimum 3No.
Type:	Steel lift-off or butt hinges
Positions option 1*:	Maximum 200 mm from the top of the door to top hinge Maximum 1155 mm from top of door to 2 nd hinge Maximum 335 mm from bottom of door to bottom hinge Fourth hinge required to doors over 2446 mm high to be positioned centrally between the 2 nd and bottom hinges.
Positions option 2*:	Maximum 250 mm from the top of the door to top hinge Maximum 450 mm from top of door to 2 nd hinge Maximum 260 mm from bottom of door to bottom hinge Fourth hinge required to doors over 2446 mm high to be positioned centrally between the 2 nd and bottom hinges.
Dimensions:	Blade height: 101 mm ($\pm 20\%$) Blade width: 35 mm (+2 mm / -5 mm) Blade thickness: 3 mm (± 0.5 mm) Knuckle diameter: 14 mm (± 1 mm)
Fixings:	Quantity: 4 No. steel screws (minimum) Size: No 8 by 32 mm long (minimum)
Intumescent protection**	<u>All lipping options</u> <ul style="list-style-type: none">• 1 mm mono ammonium phosphate, 1 mm Therm-A-Strip or 1 mm Graphite 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. 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 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 certificate.

11. Locks and Latches



Locks and latches are not necessary, but where fitted shall be CE marked in accordance with BS EN 12209 or EN179 for use on 60 minute timber fire doors, in addition to the specification below:

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

Max. Case dimensions:	165 mm by 84 mm by 24 mm
Max. Forend dimensions:	235 mm long by 24 mm wide
Max. Keep dimensions:	180 mm long by 40 mm wide (including lip)
Latchbolt material:	Steel/brass
Position:	Max 1050 mm from the bottom of the door to the centreline of the lock case.
Intumescent protection*:	1 mm mono ammonium phosphate under the latch forend, under the keep and encasing the latch body.

- * This specification overrides any requirements 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.

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

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.

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.

12a Surface mounted overhead closers



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

12b Transom Mounted and Concealed Closers

Not permitted

12c Floor Springs – double action use only

Floor springs will be CE Marked in accordance with EN 1154 and categorised as grade 1, in addition to the specification below:

Max. Top pivot dimension	Frame portion: 165 mm long x 37 mm deep x 25 mm wide Door portion: 122 mm long x 11 mm deep x 29 mm wide
Max. bottom arm dimension:	235 mm long x 20 mm deep x 24 mm wide
Material:	Steel
Intumescent: protection*	Required to be supplied by and fitted in accordance with the CERTIFIRE certificate for the required floor spring.

13. Ancillary items

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

13a. Protection plates and signage

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

- < 2 mm thick
- Do not occupy more than 20% Of the door leaf in total, or exceed 500 mm in height for kickplates and 300 mm 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 – 50 mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally screws may be used.

13b. 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.

13c. Flushbolts

Not permitted

13d. Door Viewers

Not permitted

13e. Air transfer grilles



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

Where apertures are pre-cut by Newmor Group Ltd T/A Morland, 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.

13f. 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.

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 non-insulated glazing.

14. Further Information

Further information regarding the details contained in this data sheet may be obtained from Newmor Group Ltd T/A Morland (Tel: 01938 551980).

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

