CERTIFICATE OF APPROVAL
No CF 5854

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 Enterprise 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	TECHNICAL SCHEDULE
Morland FD60 ITT 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:	6th May 2021
Audit Test Frequency:	Every 5 years
Valid to:	5th May 2026

CERTIFICATE No CF 5854
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 integrity as defined in BS 476: Part 22. 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 its 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 leaves in various finishes for use with timber, mild steel frames, with intumescent edge seals (ITT & ITM 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 latched and unlatched, single-acting, and double-acting, single and double-leaf, ITT and ITM assemblies with or without overpanels, 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 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.

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MORLAND FD60 DOOR ASSEMBLIES

9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5854 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.

Door Leaves with 2 mm thick Hardwood, ABS or PVC lippings

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Single-Acting, Single-Leaf Latched / Unlatched	2268 (at 924 wide)	1027 (at 2040 high)	2.10
Single-Acting, Double-Leaf Latched / Unlatched	2268 (at 924 wide)	1027 (at 2040 high)	2.10

Table 1

Door Leaves with 6 mm – 25 mm thick Hardwood lippings*

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Single-Acting, Single-Leaf Latched / Unlatched **Timber Frame**	2305 (at 915 wide)	988 (at 2135 high)	2.11
Single-Acting, Double-Leaf Latched / Unlatched **Timber Frame**	2246 (at 826 wide)	908 (at 2042 high)	1.86
Double-Acting, Single-Leaf Latched / Unlatched **Timber Frame**	2040 (at 826 wide)	826 (at 2040 high)	1.69
Double-Acting, Double-Leaf Latched / Unlatched **Timber Frame**	2040 (at 826 wide)	826 (at 2040 high)	1.69
Single-Acting, Single-Leaf Latched / Unlatched **Mild Steel Frame**	2635 (at 1105 wide)	1355 (at 2135 high)	2.91
Single-Acting, Double-Leaf Latched / Unlatched **Mild Steel Frame**	2574 (at 795 wide)	954 (at 2145 high)	2.05

Table 2

* Table 2 does not permit the use of 2 mm thick ABS, PVC, or Hardwood lippings.

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MORLAND FD60 DOOR ASSEMBLIES

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

Double-leaf door assemblies including unequal sized door leaves are permitted on the assumption that the smaller leaf is no less than 40 % of the width of the larger leaf.

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CF5854 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 as defined in BS 476: Part 22, when installed in accordance with the following conditions. Subject to these, the door will meet the relevant requirements of BS 9999 for FD 60 when used in accordance with the provisions therein.

In recognition of this, the leaf carries a prefixed label on the top or hanging edge of the door, issued under the terms of the CERTIFIRE scheme. This label uniquely identifies the door leaf, the manufacture of which complies with a CERTIFIRE approved Quality Management System and is subject to on-going surveillance. This label shall not be removed.

It is emphasised that the certification is conditional upon the following instructions being complied with in their entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door. Door assemblies supplied pre-fitted with components by Newmor Group 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-action, double-action, single and double-leaf, latched and unlatched, assemblies at leaf dimensions up to those detailed within Table 1 and Table 2 below.

Door Leaves with 2 mm thick Hardwood, ABS or PVC lippings

Door assembly configuration	Max. Height (mm)	Max. Width (mm)	Max. Area (m^2)
Single-Acting, Single-Leaf Latched / Unlatched	2268 (at 924 wide)	1027 (at 2040 high)	2.10
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Table 1

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Single-Acting, Double-Leaf Latched / Unlatched **Mild Steel Frame**	2574 (at 795 wide)	954 (at 2145 high)	2.05

Table 2

* Table 2 does not permit the use of 2 mm thick ABS, PVC, or Hardwood lippings.

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

Double-leaf door assemblies including unequal sized door leaves are permitted on the assumption that the smaller leaf is no less than 40 % of the width of the larger leaf.

3. Door Frame

Frames for use with door leaves complete with 2 mm thick hardwood, ABS or PVC lippings in accordance with Table 1 shall utilise the following frame specification:

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 (640 kg/m^3 min) Where rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
MDF*	i) Density:	700 kg/m^3 min.
	ii) Dimensions:	90 mm by 30 mm min.
	iii) Door Stop:	12 mm deep pinned, screwed, or rebated from solid (700 kg/m^3 min) Where rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
*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 LP1504 Palusol based seals by Lorient Polyproducts and are to remain exposed. Under no circumstances can intumescents be concealed behind wrapped decorative material.		

Frames for use with door leaves complete with 6 mm – 25 mm thick hardwood lippings in accordance with Table 2 shall utilise the following frame specification:

Hardwood (single acting doorsets) Excluding Ash, Beech & Iroko	i) Density:	530 kg/m^3 min.
	ii) Dimensions:	70 mm by 32 mm min.
	iii) Door Stop:	12 mm deep pinned, screwed, or rebated from solid (530 kg/m^3 min) Where rebated from solid the overall frame thickness must be increased by 12 mm to accommodate the 12 mm rebate depth.
Hardwood (double acting doorsets) Excluding Ash, Beech & Iroko	i) Density:	640 kg/m^3 min.
	ii) Dimensions:	86 mm by 40 mm min.
Mild Steel (single acting doorsets) Backfilled only, with sand / cement mortar	i) Dimensions	180 mm by 45 mm minimum Frame to include a 15 mm integral stop.

Jointing of frames and door to frame gaps shall comply with the following specification:

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

4. Overpanels /Sidepanels

Transomed overpanels, manufactured to the same specification as the door leaves, may be included up to 1000 mm high, with a minimum 32 mm thick Hardwood transom rail (plus stops – therefore 56 mm o/a) with a minimum density of 640kg/m^3. The use of MDF, 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 1000 mm wide, with a minimum 32 mm thick Hardwood mullion (plus stops – therefore 56 mm o/a) with a minimum density of 640kg/m^3. The use of MDF, 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 70 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, 70mm. 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 complete with hardwood lippings 6 mm – 25 mm thick, may be trimmed to fit the frame by the following maximum amounts:

- Stiles (each): 3 mm
- Top: 3 mm
- Bottom: 3 mm if bottom edge lipping fitted /Unlimited if no bottom edge lipping fitted.

Doors with 2 mm thick hardwood, ABS or PVC lippings cannot be trimmed, with the exception of the bottom leaf edge.

Where a 2 mm thick hardwood, ABS or PVC lipping has not been fitted to the bottom edge, the bottom edge of the door leaf may be reduced without limit.

Where a 2 mm thick hardwood, ABS or PVC lipping is fitted to the bottom edge any reduction would require the bottom edge lipping to be fully removed, subject to this the bottom edge of the door may be reduced without limit.

ABS / PVC 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 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 total glazed area of 0.50 m^2 per leaf

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

Maximum Permitted Aperture Dimensions		
Max. Height (mm)	**Max. Width (mm)**	**Max. Area (m^2)**
1248 (at 400 wide)	400 (at 1248 high)	0.50

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

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

Intumescents for use with door leaves with **2 mm thick hardwood, ABS or PVC lippings** in accordance with Table 1 shall utilise the following specifications:

The intumescents detailed in the table below 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 Latched / Unlatched	Frame Head	2No exposed 15 mm wide by 4 mm thick Lorient Polyproducts LP1504 Palusol based seals, positioned centrally, 8 mm apart Or 2No exposed 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 100P Palusol based seals, positioned centrally, 8 mm apart
	Frame Jambs	2No exposed 15 mm wide by 4 mm thick Lorient Polyproducts LP1504 Palusol based seals, positioned centrally, 8 mm apart Or 2No exposed 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 100P Palusol based seals, positioned centrally, 8 mm apart
Single-acting Double-leaf Latched / Unlatched	Frame Head	2No exposed 15 mm wide by 4 mm thick Lorient Polyproducts LP1504 Palusol based seals, positioned centrally, 8 mm apart Or 2No exposed 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 100P Palusol based seals, positioned centrally, 8 mm apart
	Frame Jambs	2No exposed 15 mm wide by 4 mm thick Lorient Polyproducts LP1504 Palusol based seals, positioned centrally, 8 mm apart Or 2No exposed 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 100P Palusol based seals, positioned centrally, 8 mm apart
	Meeting Edge	2No exposed 15 mm wide by 4 mm thick Lorient Polyproducts LP1504 Palusol based seals, positioned centrally, 8 mm apart in the meeting edge of the passive leaf. Or 2No exposed 15 mm wide by 4 mm thick Mann McGowan Pyrostrip 100P Palusol based seals, positioned centrally, 8 mm apart

*See Table 1 for size restrictions

Intumescents for use with door leaves with **6 mm – 25 mm thick hardwood lippings** in accordance with Table 2 shall utilise the following specifications for Timber Frames and Steel Frames:

Timber Frames

Door assembly Configuration*	Frame material	Position	Required Intumescent Protection
Single-acting, Single-leaf latched / unlatched	Timber	Head	2No. 15 mm wide by 4 mm thick ISL Therm-A-Seal positioned centrally, 8 mm apart.
		Vertical edges	2No. 15 mm wide by 4 mm thick ISL Therm-A-Seal positioned centrally, 8 mm apart.
Single-acting, double-leaf latched / unlatched	Timber	Head	2No. 15 mm wide by 4 mm thick ISL Therm-A-Seal positioned centrally, 8 mm apart.
		Hanging edges	2No. 15 mm wide by 4 mm thick ISL Therm-A-Seal positioned centrally, 8 mm apart.
		Meeting edges	2No. 15 mm wide by 4 mm thick ISL Therm-A-Seal positioned centrally, 8 mm apart within one door leaf edge only
Double-acting, Single-leaf latched / unlatched	Timber	Head	Single 38 mm by 4 mm thick Lorient Palusol seal
		Vertical edges	Single 38 mm by 4 mm thick Lorient Palusol seal
Double-acting, Double-leaf latched / unlatched	Timber	Head	Single 38 mm by 4 mm thick Lorient Palusol seal
		Vertical edges	Single 38 mm by 4 mm thick Lorient Palusol seal
		Meeting edges	Single 38 mm by 4 mm thick Lorient Palusol seal positioned centrally within one door leaf edge only

*See Table 2 for size restrictions

Steel Frames

Door assembly Configuration*	Frame material	Position	Required Intumescent Protection
Single-acting, single-leaf latched / unlatched	Steel (backfilled)	Head	Single 38 mm by 4 mm thick ISL Therm-A-Seal
		Vertical edges	Single 38 mm by 4 mm thick ISL Therm-A-Seal
Single-acting, double-leaf latched / unlatched	Steel (backfilled)	Head	Single 38 mm by 4 mm thick ISL Therm-A-Seal
		Hanging edge	Single 38 mm by 4 mm thick ISL Therm-A-Seal
		Meeting edge	Single 10 mm by 4 mm thick ISL Therm-A-Stop fitted into the meeting edge of the primary leaf and 2No 10 mm by 4 mm thick ISL Therm-A-Seal positioned centrally to the meeting edge of the opposing leaf, spaced 10 mm apart.

*See Table 2 for size restrictions

Intumescent strips cannot be changed from the specific size type and location specified within the CF5854 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.

10. Hinges

Hinges for use with door leaves complete with **2 mm thick hardwood, ABS or PVC lippings** in accordance with Table 2 shall comply with the following hinge specification requirements.

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire door assemblies, in accordance with the following specification.

Number:	Minimum 3 No. hinges	
Type:	Steel lift off or butt hinges.	
Positions:*	Top Hinge:	Max 250 mm from the top of the door to top hinge.
	2nd Hinge:	Max 450 mm from the top of the door to 2nd hinge.
	Bottom.	Max 250 mm from the bottom of the door to bottom hinge
	Note: Where 4No hinges are required the 4th hinge shall be positioned equally between the 2nd hinge and bottom hinge within the leaf height	
Dimensions:	blade height:	100 – 110 mm
	Blade width:	30 – 35 mm
	Thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	12 mm (+/- 2 mm)
Fixings:	Quantity:	4No. steel screws (minimum)
	To Frame	No.8 by 32 mm long (minimum).
	To Door:	No.8 by 32 mm long (minimum).
Intumescent Protection**	2 mm thick ISL Therm-A-Strip or Interdens sheet material under all hinge blades.	

Hinges for use with door leaves complete with **6 mm – 25 mm thick hardwood lippings** in accordance with Table 2 shall comply with the following hinge specification requirements.

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire door assemblies, in accordance with the following specification.

Number:	Minimum 3 No. hinges	
Type:	Steel lift off or butt hinges.	
Positions:*	Top Hinge:	Max 150 mm from the top of the door to top hinge.
	Middle Hinge:	Middle hinge fitted centrally in the leaf height.
	Bottom.	Max 250 mm from the bottom of the door to bottom hinge
	Note: Where 4No hinges are required the 2No middle hinges shall be positioned equally between the top and bottom hinges within the leaf height	
Dimensions:	blade height:	100 – 110 mm
	Blade width:	30 – 41 mm
	Thickness:	3 mm (+/- 0.5 mm)
	Knuckle dia.:	12 mm (+/- 2 mm)
Fixings:	Quantity:	4No. steel screws (minimum)
	To Frame	No.8 by 32 mm long (minimum).
	To Door:	No.8 by 32 mm long (minimum).
Intumescent Protection**	2 mm thick ISL Therm-A-Strip or Interdens sheet material under 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. 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.

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:

Type:	Mortice type, automatic (sprung) latch bolts and knobsets.
Max. case dimension:	200 mm high by 85 mm deep by 23 mm wide
Max. forend dimension:	235 mm high by 25 mm wide
Max. keep dimension:	180 mm high by 22 mm wide (excluding latch plate)
Latchbolt material:	Steel or material with a melting point greater than or equal to 950°C
Position:	Max. 1100 mm from bottom of door to centreline of spindle
Configuration:	Latched / unlatched
Intumescent: protection*	Latch cases, forend and strike plate to be bedded onto 1 mm of intumescent sheet material.

* The lock specification above overrides any requirement for additional intumescent identified in the lock manufacturer's certification providing the lock/latch specification falls within the parameters identified in the table 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 in the table above and subject to the conditions contained within the relevant certificate. Where the Certifire approved lock/latch exceeds the specification given in the table 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 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 15 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 use of oval profile cylinders is not permitted.

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 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.

CERTIFIRE approved closers for use with timber doors and composite frames (ITC) must be CERTIFIRE approved for this configuration specifically.

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 CERTIFIRE approved and CE Marked in accordance with EN 1154 and categorised as grade 1, suitable for use on fire / smoke doors assemblies, 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 15 mm deep x 29 mm wide
Max. bottom strap 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 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.

13b Protection plates and signage

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

- ≤ 2mm thick
- Do not occupy more than 20% of the door leaf in total or exceed 500mm in height for kickplates and 300mm for mid-plates, whichever is the smaller.
- Do not wrap around the vertical edges, and on the closing face do not extend beneath the door stops (generally 40-50mm narrower than door width)
- Plates/signage can be bonded with a thermally softening adhesive. Additionally, screws may be used.

13c Flushbolts

Doors with 2 mm thick hardwood, PVC, or ABS lippings may incorporate flushbolts in accordance with the following specification.

Quantity:	Where flushbolts are required, they shall be fitted to both the top and bottom of the leaf edge or face.
Max. dimension	203 mm high x 38 mm deep x 19.3 mm wide
Material:	Steel
Position:	Top and bottom on door edge or face (positioned a minimum of 50 mm from leading edge of the door to the centre of the bolt). Meeting edges will be unrebated / square only.
Configuration:	Engaged or disengaged.
Intumescent: protection*	2 mm thick Therm-A-Flex intumescent sheet material to base and sides of bolt body and beneath keep.

Barrel bolts which are wholly surface mounted and do not encroach into the door/frame gap may be fitted providing these items are screw fixed only, and not bolted through the full thickness of the door

13d. Air transfer grilles

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

Where apertures are pre-cut by Newmor Group Ltd, Trading as 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.

13e. 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.

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 bottom of the door leaf. The viewer should have an external diameter of not greater than 14 mm and be tightly fitted within the leaf.

The aperture provided for the installation of the door viewer shall be lined with 1 mm thick Graphite intumescent sheet material.

A second door viewer may be fitted 1200 mm from the bottom of the door leaf to the centreline of the door viewer.

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

13h. Dropseals

Door assemblies may incorporate Norseal NOR810 dropseals when centrally recessed to the bottom edge of the door leaf. The dropseals are to be bedded on intumescent mastic.

Alternatively, CERTIFIRE approved dropseals with maximum dimensions of 35 mm high by 14 mm wide to the bottom edge of the door leaf. The alternative CERTIFIRE approved dropseals are to be bedded on intumescent mastic.

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

13i. Electric Strikes / Electromechanical locks

Not permitted

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).