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## CERTIFICATE OF APPROVAL

### No CF 5533

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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:

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**CERTIFIED PRODUCT**  
Morland FD30 ITT Door  
Assemblies

**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: 21<sup>st</sup> March 2017  
Next audit test due: 4<sup>th</sup> June 2024  
Frequency: Every 5 Years  
Revised: 4<sup>th</sup> June 2019  
Valid to: 20<sup>th</sup> March 2022





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## CERTIFICATE No CF 5533

### NEWMOR GROUP LTD T/A MORLAND

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This approval relates to the use of the above doors in providing fire resistance of 30 minutes insulation (if incorporating not more than 20% of uninsulating glass) and 30 minutes integrity as defined in BS 476: Part 22: 1987. Subject to the undermentioned conditions, the doors would be expected to meet the relevant requirements of BS 9999 for FD30 door assemblies when used in accordance with the provisions therein.

1. This 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 'Forever Firecheck', wrapped MDF frames, with intumescent edge seals (ITT FD30).
4. This approval is applicable to both complete door assemblies and door leaves. Where the door is not supplied in a completely fitted form it is a condition of this approval that an agreed data sheet accompanies the product and is complied with in its entirety. Failure to do so will invalidate this approval and may jeopardise the fire performance of the door.
5. This approval is applicable to single and double-acting, single and double-leaf, latched and unlatched ITT door assemblies at leaf dimensions up to those given in Table 1. 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 assemblies shall be mechanically fixed to wall constructions having a fire resistance of at least 30 minutes.
9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5533 and FD30 classifications resistance shall be affixed to each door in the in the prescribed position.



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## CERTIFICATE No CF 5533

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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 intumescents

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched	2635 (at 1165 wide)	1165 (at 2635 high)	3.07
Single-Acting, Double-Leaf Latched / Unlatched	2534 (at 948 wide)	1163 (at 2065 high)	2.40

**Table 1. Maximum Permitted Door Leaf Dimensions**

#### Lorient Polyproducts Type 617 intumescents

Door assembly configuration	Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m <sup>2</sup> )
Single-Acting, Single-Leaf Latched / Unlatched	2940 (at 1470 wide)	1470 (at 2940 high)	4.32
Double-Acting, Double-Leaf	2716 (at 1181 wide)	1181 (at 2716 high)	3.21

**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.

## CF 5533 DATA SHEET

### 1. General

This door leaf has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 30 minutes integrity and 30 minutes insulation (if incorporating not more than 20% of 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 FD 30 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. 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. The smaller leaf of such door assemblies should be rendered inactive by top and bottom surface mounted shoot bolts or flush bolts protected by nominally 1 mm thick mono ammonium phosphate or Graphite.

#### **Mann McGowan Pyrostrip 500P intumescents**

<b>Door assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Maximum Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched	2635 (at 1165 wide)	1165 (at 2635 high)	3.07
Single-Acting, Double-Leaf Latched / Unlatched	2534 (at 948 wide)	1163 (at 2065 high)	2.40

**Table 1. Maximum Permitted Door Leaf Dimensions**

#### **Lorient Polyproducts Type 617 intumescents**

<b>Door assembly configuration</b>	<b>Maximum Height (mm)</b>	<b>Maximum Width (mm)</b>	<b>Maximum Area (m<sup>2</sup>)</b>
Single-Acting, Single-Leaf Latched / Unlatched	2940 (at 1470 wide)	1470 (at 2940 high)	4.32
Double-Acting, Double-Leaf	2716 (at 1181 wide)	1181 (at 2716 high)	3.21

**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: -

#### **Softwood or Hardwood - Single acting door assemblies**

- i) Density: 510 kg/m<sup>3</sup> min.
- ii) Dimensions: Rebated frame 70 mm wide by 40 mm thick minimum complete with 12 mm deep integral rebate  
Lining & planted stop 70 mm wide by 28 mm thick minimum complete with 12 mm thick planted stop. Stop to be glued & pinned or glued & screwed (min stop density 510 kg/m<sup>3</sup>).

#### **Softwood or Hardwood - Double acting door assemblies**

- i) Density: 510 kg/m<sup>3</sup> min.
- ii) Dimensions: 70 mm by 40 mm min.

#### **\*MDF 'Forever Firecheck' frames - Single acting door assemblies only**

- i) Density: 680 kg/m<sup>3</sup> min.
- ii) Dimensions: Rebated frame 75 mm wide by 42 mm thick minimum complete with 12 mm deep integral rebate  
Lining & planted stop 75 mm wide by 30 mm thick minimum complete with 12 mm thick planted stop. Stop to be glued & pinned or glued & screwed (min stop density 680 kg/m<sup>3</sup>).

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 referenced 'Forever Firecheck' 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 P500 graphite by Mann McGowan in accordance with CF356. The Mann McGowan CF356 intumescents may be concealed under the decorative facing or exposed as required.

### 4. Overpanels /Sidepanels

Flush overpanels may be included up to a maximum height of 500 mm and shall include 6 mm thick hardwood lippings (minimum) and opposing lipping to the leaf head, or a rebated 23 mm thick (maximum) hardwood lipping with a 22mm wide by 15 mm deep maximum rebate at the bottom edge, with a corresponding 23 mm thick (maximum) hardwood lipping with a 22mm wide by 15 mm deep (maximum) to the top edge of the door leaf. Overpanels shall be lipped on all edges.

Flush overpanels shall be fixed using steel screws at a maximum of 400 mm centres and a maximum of 100 mm from each corner, through centre of panel to a depth of at least 30 mm.

Where rebated meeting edges are not incorporated on double leaf assemblies, timber astragals (min 640 kg/m<sup>3</sup>) are required at the junction between the bottom of the overpanel and the top edge of the doors.

Transomed overpanels, manufactured to the same specification as the door leaves, may be included up to 500 mm high, with a minimum 28 mm thick Hardwood transom rail with a minimum density of 530kg/m<sup>3</sup> or minimum 44 mm softwood transom rail with a minimum density of 510 kg/m<sup>3</sup>.

Mullioned sidepanels, manufactured to the same specification as the door leaves, may be included up to 550 mm wide, with a minimum 28 mm thick Hardwood mullion with a minimum density of 530kg/m<sup>3</sup> or minimum 44 mm softwood mullion with a minimum density of 510 kg/m<sup>3</sup>.

## **5. Glazed Fanlights and Sidelights**

Any CERTIFIRE approved glazing systems may be used providing the specification and installation details given in the appropriate certification documents 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 30 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 softwood 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: 1990, Table 2. 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 timber 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 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 1.62 m<sup>2</sup> per leaf

Margins: 130 mm from the perimeter edge, 130 mm between apertures.

Maximum Permitted Aperture Dimensions		
Maximum Height (mm)	Maximum Width (mm)	Maximum Area (m <sup>2</sup> )
1688 (at 960 wide)	1200 (at 1350 high)	1.62

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

**Non-Insulating glasses:** 6 mm Pyroshield™2 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 <sup>2</sup> )
Sealmaster Fireglaze, 14 mm high by 2 mm thick min.	19 mm high by min 21 mm wide (including a 5 mm by 5 mm bolection)  11 mm +2/-1 mm edge cover	Hardwood Min. 640 kg/m <sup>3</sup>	40 mm long pins or air fired brads or No.6 x 38 mm long screws at max 150 mm centres, max. 50 mm in from corners.	1688 (at 960 wide)	1200 (at 1350 high)	1.62 m <sup>2</sup>

**Insulating glasses:** 15 mm Pyroguard EI 30 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 <sup>2</sup> )
Pyroplex 30049	15 mm high by min 16 mm wide flush bead with a 20° splay or left square. (A bolection detail can be added to the above min bead dimensions).  12 mm +2/-1 mm edge cover	Hardwood Min. 640 kg/m <sup>3</sup>	No.6 x 50 mm long screws at max 150 mm centres, max. 50 mm in from corners.	822 (at 590 wide)	669 (at 725 high)	0.48 m <sup>2</sup>

Doors 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 CF5533 (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 FD30

#### Mann McGowan Pyrostrip 500P Graphite intumescent

Mann McGowan Pyrostrip 500P graphite Intumescent are required in conjunction with ‘Forever Firecheck’, MDF wrapped frames. The intumescent may be exposed or concealed by the decorative finish, as required.

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf door assemblies	Head	Single 15 mm wide by 4 mm thick (with PVC case) or Single 13.5 mm wide by 1.5 mm thick (without PVC case)
	Vertical edges	Single 15 mm wide by 4 mm thick (with PVC case) or Single 13.5 mm wide by 1.5 mm thick (without PVC case)
Single-acting Double-leaf door assemblies	Head	Single 15 mm wide by 4 mm thick (with PVC case) or Single 13.5 mm wide by 1.5 mm thick (without PVC case)
	Hanging edges	Single 15 mm wide by 4 mm thick (with PVC case) or Single 13.5 mm wide by 1.5 mm thick (without PVC case)
	Meeting edge (primary leaf only)	2No. 10 mm wide by 4 mm thick intumescent positioned centrally in the leaf edge 8 mm apart.

**Note: See table 1 for leaf size restrictions**

#### Lorient Polyproducts Type 617 intumescent

Door assembly Configuration	Position	Required Intumescent Protection
Single-acting Single-leaf door assemblies	Head	Single 15 mm wide by 4 mm thick
	Vertical edges	Single 15 mm wide by 4 mm thick Type 617
Double-acting Double-leaf door assemblies	Head	Single 15 mm wide by 4 mm thick Type 617
	Hanging edges	Single 15 mm wide by 4 mm thick Type 617
	Meeting edge (primary leaf only)	Single 15 mm wide by 4 mm thick Type 617

**Note: See table 2 for leaf size restrictions**

Seals may be interrupted at hinge and latch positions.

Latched or unlatched, single-acting, single-leaves with maximum leaf dimensions 2040 mm high by 926 mm wide and of a minimum thickness of 43 mm (excluding those hung in ‘Forever Firecheck’ frames) may utilise alternative 15 mm wide by 4 mm thick Intumescent in-line with the relevant CERTIFIRE approval for the proposed intumescent seal. All seals to be CERTIFIRE approved (to Technical Schedule 35).

All other door assembly configurations including doors hung in ‘Forever Firecheck’ frames should include the specific intumescent size type and location as specified within the 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 30 minute timber fire door assemblies.

Number:	Minimum 3No.
Type:	Steel lift-off or butt hinges
Positions option 1*:	Maximum 250 mm from the top of the door to top hinge Maximum 1220 mm from top of door to 2 <sup>nd</sup> hinge Maximum 335 mm from bottom of door to bottom hinge Fourth hinge required to doors over 2440 mm high to be positioned centrally between the 2 <sup>nd</sup> 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 <sup>nd</sup> hinge Maximum 335 mm from bottom of door to bottom hinge Fourth hinge required to doors over 2440 mm high to be positioned centrally between the 2 <sup>nd</sup> and bottom hinges.
Dimensions:	Blade height: 102 mm ( $\pm 20\%$ ) Blade width: 35 mm (+2 mm / -5 mm) Blade thickness: 3 mm ( $\pm 0.5$ mm) Knuckle diameter: 14 mm ( $\pm 1$ mm)
Fixings:	Quantity: 4 No. steel screws (minimum) Size: No 8 by 32 mm long (minimum)
Intumescent protection**	<u>Hardwood lippings – Min 6 mm thick</u> <ul style="list-style-type: none"><li>• None required to doors 2440 mm high &amp; below.</li><li>• 1 mm mono ammonium phosphate, 1 mm Therm-A-Strip, 1 mm Graphite sheet material or 0.8 mm Exi-Fire hinge pads to doors 2441 mm high and above.</li></ul> <u>ABS and Hardwood Lippings – 2 mm thick</u> <ul style="list-style-type: none"><li>• 1 mm mono ammonium phosphate, 1 mm Therm-A-Strip, 1 mm Graphite sheet material or 0.8 mm Exi-Fire hinge pads.</li></ul>

\* 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 30 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: 166 mm by 98 mm by 20 mm  
Max. Forend dimensions: 235 mm long by 25 mm wide  
Max. Strike dimensions: 180 mm long by 38 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\*: Hardwood Lippings – Min 6 mm thick:  
Tubular Latches – max. Forend 57 x 26mm: None required  
Or  
Latch / locks with a forend larger than 57 x 26 mm require 1 mm graphite or 1 mm Therm-A-Strip sheet material under the latch forend, under strike and encasing the latch body.

ABS and Hardwood Lippings – 2 mm thick:  
Intumescent protection: 1 mm graphite or 1 mm Therm-A-Strip sheet material under the latch forend, under strike 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.

### **Vingcard Locks**

Vingcard Euro lock cases complete with card readers in accordance with CF5494 may be fitted in accordance with the following specification requirements:

- Max case: 154 mm by 139 mm by 20 mm
- Max Strike: 180 mm long by 38 mm wide (including lip)
- MDF frames with a minimum density of 680kg/m<sup>3</sup> or Hardwood frames with a minimum density of 510kg/m<sup>3</sup>
- Min door thickness of 44 mm
- Doors to be lipped in 2 mm thick ABS or hardwood (min. density of 640kg/m<sup>3</sup>) as currently permitted in CF5533
- Euro lock case option only, in conjunction with card reader

- Recess for Euro lock and card reader to be fully lined with 1 mm thick graphite intumescent sheet material
- Forend and strike to be bedded on 1 mm thick graphite intumescent sheet material
- Locks are to be fitted no higher than 1100mm from the spindle to the finished floor level.

### **Salto Locks**

Salto lock cases complete with card readers in accordance with CF5596 may be fitted in accordance with the following specification requirements:

- Max case: 165 mm by 100 mm by 15 mm
- Max strike: 170 mm long by 24 mm wide (excluding lip)
- Max forend: 235 mm by 24 mm
- MDF frames with a minimum density of 680kg/m<sup>3</sup> or Hardwood frames with a minimum density of 510kg/m<sup>3</sup>
- Min door thickness of 44 mm
- Doors to be lipped in 2 mm thick ABS or hardwood (min. density of 640kg/m<sup>3</sup>) as currently permitted in CF5533
- Recess for lock and card reader to be fully lined with 1 mm thick graphite intumescent sheet material
- Forend to be bedded on 1 mm thick graphite intumescent sheet material
- Strike to be bedded on 1 mm thick graphite or 1 mm thick mono ammonium phosphate intumescent sheet material
- Locks are to be fitted no higher than 1100mm from the spindle to the finished floor level.

### **Miwa Locks**

Miwa ALV2 S-3 and ALV2 P-3 lock cases complete with Miwa Slimline hotel card readers may be fitted in accordance with the following specification requirements:

- Max case: 160 mm by 105 mm by 20 mm
- Max strike: 123 mm long by 45 mm wide (including lip)
- Max forend: 235 mm by 22 mm
- MDF frames with a minimum density of 680kg/m<sup>3</sup> or softwood / Hardwood frames with a minimum density of 510kg/m<sup>3</sup>
- Min door thickness of 44 mm
- Doors to be lipped in 2 mm thick ABS or hardwood (min. density of 640kg/m<sup>3</sup>) as currently permitted in CF5533
- Locks are to be fitted no higher than 1100mm from the spindle to the finished floor level.

The Miwa locks may incorporate either of the following intumescent protection options:

Option A: Recess for lock and card reader to be fully lined with 0.8 mm thick graphite intumescent sheet material complete with 1 mm thick graphite intumescent sheet material under the forend and strike.

Option B: 2 mm thick graphite intumescent sheet material to the lock case perimeter (no intumescent to the faces) complete with 2 mm thick graphite intumescent sheet material under the forend and 1 mm thick graphite intumescent sheet material under the strike.

Where the Miwa card reader handles are installed on the non-fire side, there is no requirement for intumescent protection, however where the exposure direction cannot be identified the use of intumescent protection will be required in accordance with either Option A or B as stated above.

## **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 kick plates 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**

Max. Dimension: 203 mm high by 30 mm deep by 19 mm wide  
Material: Aluminium or Steel  
Position: Top and bottom on door edge or face (positioned a minimum of 50 mm from the leading edge of the door to the centre of the bolt)  
Intumescent protection: 1 mm Graphite or Therm-A-Strip sheet material to base and sides of bolt body and beneath keep.

### **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 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 FD30 timber based doors.

The air transfer grilles must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the air transfer grille. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the air transfer grille within the 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 FD30 timber based doors. The letter plates must be fitted into apertures prepared in line with the relevant CERTIFIRE certificate for the letter plate. Care must be taken to ensure all fitting instructions are followed, including any constraints imposed by the CERTIFIRE certificate with regards to position of the letter plate within the door assembly.

### **13f. Door Viewers**

A door viewer may be fitted into the leaf providing the viewer comprises a metal sleeve and optical glass lens and is not positioned higher than 1500 mm from the bottom edge of the door leaf. The door 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 viewer should be lined with Lorient RM301D intumescent mastic or 1 mm mono ammonium phosphate, intumescent sheet material.

### **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**

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

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.

### **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).