



CERTIFICATE OF APPROVAL

No CF 5802

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, Powys. 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 PAS24
Security Doorsets

TECHNICAL SCHEDULE

TS10 Fire Resisting Door
Assemblies with Non
Metallic Leaves

Enhanced Security certified to STS201 under CERTISECURE
certificate CS5077

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager

Issued: 5th November 2019
Revised: 17th February 2021
Valid to: 4th November 2024



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CERTIFICATE No CF 5802 NEWMOR GROUP LTD T/A MORLAND

MORLAND PAS24 SECURITY DOORSETS

This approval relates to the use of the above doorsets in providing fire resistance of 60 minutes insulation and 60 minutes integrity as defined in BS 476: Part 22: 1987. Subject to the Undermentioned conditions, the doorsets would be expected to meet the relevant requirements of BS 9999 for FD60 doorsets when used in accordance with the provisions therein.

1. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. The doorsets 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 based composite frames, with intumescent edge seals (ITT FD60).
4. This approval is applicable to 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 doorset.
5. This approval is applicable to latched, single-acting, single-leaf ITT doorsets at leaf and overall frame dimensions up to those given in Table 1 and Table 2 below:

Doorset Configuration	Max. Leaf Height (mm)	Max. Leaf Width (mm)	Leaf Thickness (mm)	Area (m2)
Single-Acting, Single-Leaf Latched – opening In / Away from attack	2040 (at 926 wide)	926 (at 2040 high)	54	1.89

Table 1. Maximum Permitted Door Leaf Dimensions

Doorset Configuration	Max. Frame Height (mm)	Max. Frame Width (mm)
Single-Acting, Single-Leaf Latched – opening In / Away from attack	2087 (at 1008 wide)	1008 (at 2087 high)

Table 2. Maximum Permitted Overall Frame Dimensions

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

Signed
E/131



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CERTIFICATE No CF 5802

NEWMOR GROUP LTD T/A MORLAND

MORLAND PAS24 SECURITY DOORSETS

6. Glazing of door leaves is not permitted.
7. Hardware items, including closing devices and intumescent edge seals, shall be as specified in the data sheet.
8. The doorset shall be mechanically fixed to wall constructions having a fire resistance of at least 60 minutes.
9. Labels to the CERTIFIRE design, or approved by CERTIFIRE, referencing CERTIFIRE and CERTIFIRE Ref. No. CF5802 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.

Signed
E/131

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CF 5802 DATA SHEET MORLAND PAS24 SECURITY DOORSETS

1. General

This doorset has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 60 minutes integrity and 60 minutes insulation as defined in BS 476: Part 22: 1987, when installed in accordance with the following conditions. Subject to these, the doorset will meet the relevant requirements of BS 9999 for FD60 doorset 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 doorset. Doorsets 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 latched single-acting, single-leaf ITT doorsets at leaf dimensions up to those given in Table 1 and Table 2 below:

Doorset Configuration	Max. Leaf Height (mm)	Max. Leaf Width (mm)	Leaf Thickness (mm)	Area (m ²)
Single-Acting, Single-Leaf Latched – opening In / Away from attack	2040 (at 926 wide)	926 (at 2040 high)	54	1.89

Table 1. Maximum Permitted Door Leaf Dimensions

Doorset Configuration	Maximum Frame Height (mm)	Maximum Frame Width (mm)
Single-Acting, Single-Leaf Latched – opening In / Away from attack	2087 (at 1008 wide)	1008 (at 2087 high)

Table 2. Maximum Permitted Overall Frame Dimensions

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

3. Door Frame

To be as follows:

Material	Sifar Placcati SRL	
Description:	10mm high density fibreboard, 16mm spruce core blockboard, 4mm HDF, 16mm spruce core blockboard and 10mm HDF.	
Density:	600 kg/m ³ minimum	
Dimensions:	Rebated frame only	98 mm wide by 55 mm thick minimum complete with 59 mm wide by 17 mm deep integral rebate
Jointing:	Mitred with the frame head screw fixed to the jambs using three stainless steel CSK screws, 5 mm Ø by 80 mm long, at each corner. Adhesive not required at the jamb / head joints.	
Doorset gaps:	Not to exceed 3 mm except at threshold where up to 5.5 mm is permitted.	

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 intumescent must be 500P graphite by Mann McGowan in accordance with CF356. The Mann McGowan CF356 intumescent may be concealed under the decorative facing or exposed as required.

4. Threshold

It is a requirement of CF5802 that all doorsets incorporate a hardwood threshold in accordance with the following details:

Material	American White Oak hardwood	
Density:	650 kg/m ³ minimum	
Dimensions:	Plain Threshold only (no rebates)	15 mm high by 98 mm deep.
Jointing:	Mitred with the threshold screw fixed to the jambs using two stainless steel CSK screws, 5 mm Ø by 60 mm long, at each corner. Adhesive not required at the jamb / threshold joints.	

5. Overpanels / Sidepanels

Not permitted

6. Glazed Fanlights

Not permitted

7. Supporting Construction

The doorsets are approved to be installed in brick, block, masonry, timber, or steel stud of minimum thickness 98 mm, providing at least 60 minutes fire resistance. Where stud partitions are used these shall be suitably constructed to provide a secure fixing for the doorsets as recommended by the partition manufacturer.

8. Installation

The opening may be lined with 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. Face fixed architraves are optional with no restrictions on material, size or fixing.

Doorsets 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 are supplied with ABS or PVC lippings to all four door leaf edges and therefore cannot be trimmed,

9. Glazed Apertures

Not permitted

10. Intumescent Seals

CERTIFIRE certificated intumescent seals are required to be fitted to these doorsets as specified below

For doorsets to BS476: Part 22 – classified as FD60

Option 1 - Exposed Intumescents

Mann McGowan Pyrostrip 500P and 500PSS (CF356) graphite Intumescents complete with PVC carriers are required to be fitted in an exposed manner to the frame jambs and head as detailed below:

Doorset Configuration	Position	Required Intumescent Protection
Single-Acting, Single-Leaf Latched	Frame Jambs & Head (rebate)	1No 15 mm wide by 4 mm thick combined intumescent / smoke seal with fins positioned 32.5 mm from the opening face of the frame & 1No 15 mm wide by 4 mm thick intumescent seal positioned 8.5 mm from the opening face of the frame

Note: See table 1 for leaf size restrictions

Combined intumescent and smoke seals are to comply with conditions contained within the relevant CERTIFIRE certificate for the seal.

The intumescent seal positioned towards the opening face of the frame may be interrupted at the hinge and keep positions, the intumescent seal positioned towards the frame rebate shall be uninterrupted at the hinge and keep positions.

Option 2 - Concealed Intumescents

'Forever Firecheck' frames, complete with decorative finish shall include Mann McGowan Pyrostrip 500P (CF356) graphite Intumescents without PVC carriers in a concealed manner to the frame jambs and head as detailed below:

Doorset Configuration	Position	Required Intumescent Protection
Single-Acting, Single-Leaf Latched	Frame Jambs & Head (rebate)	1No 13.8 mm wide by 1.5 mm thick intumescent positioned 33 mm from the opening face of the frame & 1No 13.8 mm wide by 1.5 mm thick intumescent seal positioned 9.2 mm from the opening face of the frame

Note: See table 1 for leaf size restrictions

Intumescent strips cannot be changed from the specific size type and location specified within the CF5802 data sheet.

11. Door frame Seals

Exitex Aqua-seal gasket referenced A10 is required to be fitted within the frame jambs and head to all doorsets, mounted on the stop such that the closing face of the door leaf contacts the seal when the door is in the closed position.

The A10 seal shall not be interrupted by the hardware.

12. Hinges

Hinges shall be CE marked against EN 1935 for use on 60 minute timber fire doorsets in accordance with the following specification:

Supplier / Manufacturer:	Carlisle Brass Limited	
Description:	Eurospec 1 EN 1935 Grade 13 stainless steel butt hinges	
Reference:	1433/13	
CERTIFIRE No.	CF339	
Number:	Minimum 3No.	
Hinge Positions:*	Top hinge:	247 mm from the top of the door leaf.
	Middle hinge:	447 mm from the top of the door leaf.
	Bottom hinge:	1784 mm from the top of the door leaf.
	* The datum in all cases is the centreline of the hinge.	
Dimensions:	Blade height:	102 mm
	Blade width:	31 mm
	Blade thickness:	2.75 mm (± 0.25 mm)
	Knuckle Ø:	14 mm
Fixings:	Quantity:	4 No. stainless steel CSK screws per blade
	Size:	2No. 5 mm Ø by 30 mm long screws and 2No 5 mm Ø by 60 mm long screws per blade.
Intumescent Protection:	Intumescent Seals Limited, Therm-A-Flex 1 mm thick, graphite hinge pads to all hinge blades to both door leaf and frame.	

12. Locks and Latches

Winkhaus multipoint lock with auto bolting functionality to top and bottom locks and a latch bolt to the central lock with Hoppe handles, in accordance with the specification below:

Manufacturer:	Winkhaus	
Description:	AV2 multi point lock/latch - AV/2-F-2070/55 92/8 M2 (Silver)	
Reference:	R/H 2559895, L/H 2559908	
Case dimensions:	Central:	185 mm high by 73 mm deep by 20 mm wide
	Top & Bottom:	113 mm high by 45 mm deep by 20 mm wide
Forend dimensions:	1765 mm high by 20 mm wide by 2.5 mm thick	
Latchbolt material:	Steel	
Position:	1000 mm from bottom of door to centreline of spindle	
Lock Configuration:	Central:	Engaged latchbolt
	Top & Bottom:	Engaged
Intumescent protection:	All lock cases:	Fully encased in 2 mm thick Graphite intumescent sheet material.
	Forend:	2 mm thick Graphite sheet material behind the entire forend plate.
Fixings:	12No. 3.5 mm Ø by 30 mm long CSK stainless steel screws	
Cylinder:	Supplier:	Winkhaus
	Description:	Kitemark Cylinder
	Kitemark:	KM531333
	Reference:	XR6 04/6 33/33 4931761 Nickel
	Fixings:	2No 5 mm Ø by 65 mm bolt through fixings as supplied.
Security Escutcheon:	Supplier:	Carlisle Brass
	Description:	AEB Security Escutcheon Set
	Reference:	AEB5000
	Material:	Stainless Steel
		PVD Brass
	Fixings:	2No 5 mm Ø by 55 mm bolt through fixings as supplied.
Handles	Hoppe return to door lever / 6 mm rose referenced AR361/60-SP-SSS or AR361/60-SP-PC, fixed with 2No 4 mm Ø by 50 mm bolt through fixings as supplied.	

Recessing for locks / forends shall result in a tight fit, allowing for intumescent protection.

Winkhaus lock keeps are required in accordance with the specification below:

Manufacturer:	Winkhaus	
Description:	BS single pocket keeps & centre keep	
Reference:	Central Keep:	F24-912WZ VT AVU R12 BS (RS/LH) 5059244.
	Top & Bottom keep:	F24-912ZW VT AV2 R12 5059240
Keep dimension:	Central:	252 mm high by 24 mm wide
	Top & Bottom:	158 mm high by 21 mm wide
Intumescent protection:	All keeps:	1 mm thick Graphite intumescent sheet material behind the keep plates and to the keep pockets.
Fixings:	Central Keep:	3No. 3.5 mm Ø by 30 mm CSK stainless steel screws
	Top & Bottom keep:	4No. 3.5 mm Ø by 30 mm CSK stainless steel screws

Recessing for keeps shall result in a tight fit, allowing for intumescent protection.

Alternatively, Winkhaus multipoint locks with auto bolting functionality to top and bottom locks and a latch bolt to the central lock may utilise Salto XS4 handles, in accordance with the specification below:

Manufacturer:	Winkhaus	
Description:	AV2 multi point lock/latch - AV/2-F-2070/55 92/8 M2 (Silver)	
Reference:	R/H 2559895, L/H 2559908	
Case dimensions:	Central:	185 mm high by 73 mm deep by 20 mm wide
	Top & Bottom:	113 mm high by 45 mm deep by 20 mm wide
Forend dimensions:	1765 mm high by 20 mm wide by 2.5 mm thick	
Latchbolt material:	Steel	
Position:	1000 mm from bottom of door to centreline of spindle	
Lock Configuration:	Central:	Engaged latchbolt
	Top & Bottom:	Engaged
Intumescent protection:	All lock cases:	Fully encased in 1 mm thick Graphite intumescent sheet material.
	Forend:	1 mm thick Graphite sheet material behind the entire forend plate.
Fixings:	12No. 3.5 mm Ø by 30 mm long CSK stainless steel screws	
Cylinder:	Not permitted	
Handles	Salto XS4 electronic lever / lever handle 120 mm long, referenced E9450U00IM48, with 280 mm long by 40 mm wide backplate, fixed with 2No M5 machine screws.	

13. Self-Closing Devices

All doorsets are required to be fitted with a CERTIFIRE certificated self-closing device. The exceptions are doorsets 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.

13a Surface mounted overhead closers

Surface mounted overhead door closers are required in accordance with the specification below:

Manufacturer:	Dorma	
Description:	Surface mounted overhead door closer	
Reference:	TS90	
Body dimensions:	246mm wide x 57 mm high x 45 mm deep	
Intumescent protection:	None	
Fixings:	To door leaf:	4No. 5 mm Ø by 35mm stainless steel screws
	To frame:	4No. 5 mm Ø by 35mm stainless steel screws

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

13b Transom Mounted and Concealed Closers

Not permitted

13c 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. Protection plates & signage

Protection plates & signage where required will be in accordance with the specification below:

Manufacturer:	Weldit
Description:	Kickplate
Material:	Aluminium
Thickness:	1.8 mm
Dimensions:	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.
Position:	Protection plates & signage shall be surface mounted / face fixed only and shall not wrap around the leaf edges, and on the closing face shall not extend beneath the door stops.
Fixings:	Protection plates shall be screw fixed using 8No 3 mm Ø by 16 mm CSK Zinc gimlet screws. Signage can be bonded with a thermally softening adhesive. Additionally, screws may be used.

14b. Door Viewers

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

Option 1		
Manufacturer:	Carlisle Brass	
Reference:	FRSWS 100SSS	
Dimensions:	Door viewer body:	14 mm Ø
	Cut out:	16.5 mm Ø
Position:	1500 mm from the bottom of the door leaf to centreline of door viewer A second door viewer may be fitted 1200 mm from the bottom of the door leaf to centreline of door viewer.	
Intumescent protection:	1 mm thick Intumescent Seals Limited Graphite intumescent sheet material to fully encase the door viewer body.	

Recessing for door viewers shall result in a tight fit, allowing for intumescent protection.

Option 2		
Manufacturer:	Laidlaw	
Description:	200° door viewer	
Reference:	DV-015	
Dimensions:	Door viewer body:	14 mm Ø
	Cut out:	16.5 mm Ø
Position:	1500 mm from the bottom of the door leaf to centreline of door viewer A second door viewer may be fitted 1200 mm from the bottom of the door leaf to centreline of door viewer.	
Intumescent protection:	1 mm thick Intumescent Seals Limited Graphite intumescent sheet material to fully encase the door viewer body.	

14c. 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.

14d. Dropseals

Dropseals where required will be in accordance with the specification below:

Manufacturer:	Norseal	
Description:	Dropseal	
Reference:	Nor810	
CERTIFIRE No:	CF629	
Dimensions:	35 mm high by 14 mm wide	
Intumescent protection:	None	
Position:	Fitted centrally within the bottom / underside of the leaf.	
Fixings:	2No. 3.5 mm Ø by 14mm CSK Zinc gimlet screws (1No. per end)	

Recessing for door viewers shall result in a tight fit, allowing for intumescent protection.

14e. Letterplates

Letterplates where required will be in accordance with the specification below:

Manufacturer:	UAP	
Description:	Soterian TS008 letterplate	
Reference:	Soterian	
Dimensions:	Internal plate:	300 mm wide by 115 mm high by 35 mm projection
	External plate:	305 mm wide by 75 mm high
	Cut out:	260 mm wide by 54 mm high
Intumescent protection:	2 mm thick Graphite intumescent sheet material aperture lining	
Position:	Between 700 mm and 900 mm from the bottom of the door leaf to the centreline of the letterplate	
Fixings:	To door leaf:	4No. 8 mm Ø by 33 mm stainless steel screws

The letter plates shall be fitted into apertures prepared in line with the installation instructions.

14f. Pull Handles

Not permitted

14g. Flushbolts & Surface mounted Barrel bolts

Not permitted

14h. Air transfer grilles

Not permitted

15. 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).