

CF 5866 DATA SHEET

Latham's 50mm Steel Fire Doorset

1. General

This doorset has been fire tested and is certified by CERTIFIRE as being capable of providing fire resistance of 120 minutes integrity as defined in EN 1634-1: 2018, when installed in accordance with the following conditions. Subject to these, the doorset will meet the relevant requirements of BS 9999 for fire resisting doorsets, for periods of up to 120 minutes integrity, 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 Latham's Security Doorsets Ltd 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, MM, doorsets at leaf dimensions up to those given in Table 1 below:

Doorset Configuration	Integrity (mins)	Maximum Height (mm)	Maximum Width (mm)	Subject to Maximum Area of (m ²)
Single-Acting, Single-Leaf, Latched	Up to 60	2677 (at 968 wide)	1212 (at 2138 high)	2.59
	90	2574 (at 969 wide)	1165 (at 2141 high)	2.49
	120	2471 (at 971 wide)	1118 (at 2145 high)	2.40

Table 1. Maximum Permitted Door Leaf Dimensions

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

3. Overpanels / Sidepanels

Not permitted.

4. Glazed Fanlights

Not permitted.

5. Supporting Construction

The door assemblies are approved to be installed into reinforced concrete, masonry or plasterboard clad steel stud partitions (for up to 120 minutes fire resistance) with a fire resistance at least equal to that of the doorset to be installed.

Any plasterboard partition shall have proven its ability to provide the required fire performance when incorporating a steel doorset of similar construction. The steel studs surrounding the opening within the partition shall be lined with plasterboard or calcium silicate based board where 60 minutes fire performance or more is required.

Any gaps between the door frame and the supporting construction should be infilled with a fire stopping material, suitable for the application.

6. Installation

Frame jambs shall be fixed, to the supporting construction, at five positions at the following distances up from the threshold; 100mm, 425mm, 1255mm, 1780mm & 2005mm, using M8 x 80mm low carbon steel fixing screws. Head members do not require fixing. Where the doorset is of greater dimensions than those tested (outer frame dimensions >2100mm high by 1000mm wide) extra fixing points shall be incorporated in to the design, please see the below table:

Height (mm)	Location of fixing points measured up from the threshold (mm)
2575 to 2677	100mm, 425mm, 1255mm, 1780mm, 2005mm, 2350mm & 2600*mm
2472 to 2574	100mm, 425mm, 1255mm, 1780mm, 2005mm, 2250mm & 2500*mm
2101 to 2471	100mm, 425mm, 1255mm, 1780mm, 2005mm & 2370*mm
Up to 2100	100mm, 425mm, 1255mm, 1780mm & 2005mm

* The top most fixing point may be adjusted to suit the height of the doorset but must not be further than 100mm from the top of the jamb.

For plasterboard wall assemblies, the doorset is to be installed using minimum No. 10 steel woodscrews. The screw length shall be suitable in order to maintain mechanical fixity of the doorset within the supporting structure.

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.

7. Glazed Apertures

Not permitted.

8. Seals

Any seals shall be CERTIFIRE approved for use on uninsulated steel doorsets.

9. Door frame Seals

Chongqing Yangbei Technology Co. Ltd EPDM weather seal, referenced AF374_13*9, are 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 seal, of section size 13mm x 5mm x 3mm thick, is to be uninterrupted by hardware items.

10. Hinges

Hinges shall be in accordance with the specification below:

Supplier / Manufacturer:	Chongqing Number One Technology Co. Ltd.	
Description:	Ball Bearing Butt hinge	
Reference:	MX-JL4*4#	
Number:	4No.	
Hinge Positions:		
Top hinge position	111.5mm from top of door to top of hinge	
2 nd hinge position	361.5mm from top of door to top of hinge	
3 rd hinge position	995mm from top of door to top of hinge	
bottom hinge position	1798.5mm from top of door to top of hinge	
Dimensions:	Blade height:	100 mm
	Blade width:	40 mm
	Blade thickness:	3 mm (± 0.25 mm)
Fixings:	Quantity:	4 No. stainless steel M6 x 16mm screws per blade
	See also Constructional Specification for guidance in regards number and position of hinges for larger doorsets.	

Alternative hinges shall be CE Marked for use on fire resisting steel doors.

Alternative hinges which have been CERTIFIRE approved for use in steel doorsets are deemed to be suitable for use.

11. Locks and Latches

Locks and latches shall be in accordance with the specifications below:

Centre Lock	
Manufacturer:	Zhejiang Hongli Locks Co., Ltd.
Reference:	HL8#EX
Overall size	
i. Forend Plate	240 mm x 24 mm
ii. Latch	13 mm length x 19 mm
iii. Lock	20 mm length x 19 mm
iv. Keep aperture	115 mm x 17 mm
Fixing method	1038.5mm from bottom of door to centre of spindle/lock
Fixings:	4No. M5 x 12mm stainless steel screws

Side Locks	
Manufacturer:	Zhejiang Hongli Locks Co., Ltd.
Reference:	HL502A
Position:	401mm from top of door 323mm from bottom of door
Overall size	
i. Forend Plate	110mm x 22mm
ii. Lock	18 mm length x 19 mm
iii. Keep	57mm long x 15mm wide or 78mm long x 27mm wide steel cup push fitted or welded in place.
Fixings:	2No. M4 x 12mm stainless steel screws
Shoot Bolts	
Supplier	Chongqing Mexin Best Doors & Windows Industry Co. Ltd.
Description	Shootbolt unit with 3no. dead bolts (bolts can be finished off with a nominally square edge or with the last 8mm chamfered down from 13mm diameter to 11mm diameter) connected to side locks with connecting rod
Reference	MX-TJS-002#
Material	Galvanized Steel
Face plate size	108 x 24mm
Keep	3no. 24mm diameter holes with plastic inserts or 1no. 78mm long x 27mm wide deep steel cup push fitted or welded in place.
Fixing bolt to door leaf	Connecting with main multi-point lock through side lock, Fixing on plate by screw. 2no (top) + 2no (bottom) M5 x 12mm stainless steel screw

Alternative locks and latches shall be CE Marked for use on fire resisting steel doors and of the relevant Grade. The doors must incorporate a fully engaged latch.

Alternative locks/latches which have been CERTIFIRE approved for use in steel doorsets are deemed to be suitable for use.

No restriction on type of metallic handles.

Alternatively, the centre lock, side locks and top & bottom shoot bolts may be removed from the construction (the centre latch shall remain). Where any of these locks are removed from the door leaf, the void in the skin shall be covered with a steel blanking plate of at least 1.0mm thickness and of sufficient dimensions to cover the opening and allow the attachment of fixings. The fixings shall be minimum 2 off M4 x 10mm steel screws.

12. Self-Closing Devices

Self-closing devices shall be either:

1. Certifire approved for the required application (i.e. uninsulated steel-based doorsets on the exposed and unexposed face), in the required configuration (e.g. projecting arm body door mounted, parallel arm body door mounted, projecting arm body transom mounted, etc.), or
2. CE marked with suitable EN1634-1 test data for the required application (i.e. on the exposed and unexposed face of a latched, uninsulated, steel-based doorset), in the required configuration (e.g. projecting arm body door mounted, parallel arm body door mounted, projecting arm body transom mounted, etc.).

13. Ancillary items

Metallic signage labels, kick plates or push plates may be mechanically fixed to either face of the door leaf.

14. Further Information

Further information regarding the details contained in this data sheet may be obtained from Latham's Security Doorsets Ltd (Tel: 01384 220050).

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