



Steel Flood, Fire & Security Door

Installation Guide

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Troubleshooting



At M3 we are continually searching the Globe for new technologies and working processes that we can harness to enable us to deliver Innovative solutions that benefit the Environment and provide enhanced value to our Clients

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■ Introduction

Steel Flood, Fire & Security Door

Manufactured in the UK, the Steel Flood, Fire & Security Door is designed to offer secure protection against flood, fire and unauthorised entry.

Highly versatile and cost effective, it is the ideal solution for unmanned or remote locations, such as utility sites, where high security levels are required.



■ General Information

All door sets are individually made so check that the ID numbers match on the frame and the door leaf. Identification numbers are etched at the top hinge of each leaf and in the same top hinge of the frame.

Before removing the existing door set please make sure that the new door will fit the opening by checking the sizes ordered against the new door. You should also check that the new door set is correct to what you have ordered.

Tools Required for Installation of Steel Flood, Fire & Security Door

The following tools are required for installation:

- Spirit Level
- Shims / Packers
- 17mm Socket & Ratchet
- Drill and 6 & 10mm masonry drill bits
- Screwdriver Set
- Mastic

■ General Care

Handling

Door sets are usually delivered on a curtain-sided lorry and can be unloaded using forklift trucks. Care must be taken when unloading especially with a forklift that the forks are positioned correct, and where possible extends past the pallet. Lift the pallet a few inches to ensure the balance is correct, tilt slightly towards the driver and reverse clear of the lorry, slowly lower the pallet to the floor, lay the pallet on even ground making sure there are no objects on the floor that will damage the door. Nothing should be placed on top of the door, even though the door is made of steel it can still be damaged if care is not taken. There are a few simple points to remember:

- Please be aware that these doors are heavy, we recommend two men
- The doors must not be used as a table or seated bench whilst stored on a pallet
- Take care not to damage the handles or anything that protrudes on the surface
- Do not store in exposed places for long periods and protect from weather
- The protective covering on the doors are for protection against dust and finger marks

Storage

Door sets on pallets which are being stored for long periods should be checked regularly that the polystyrene has not been crushed and no damage to the doors has occurred. Do not store un-protected doors on top of each other.

If storing upright, make sure the door sets are secure and there is no danger of them falling over. Ensure they are stored well away from moving vehicles e.g. forklift trucks, cranes or where they are likely to be hit by foreign objects.

■ Installation

Safe System of Work

The SSFD has been designed for ease of installation. As with all installation processes, care must be taken to ensure that the persons carrying out the work do so with methods that do not increase the opportunity for injury or damage to themselves and others.

Consideration must be given to the fitting instructions at all times, to ensure that safe working practices are adhered to. Therefore, the persons carrying out the installation must ensure that:

- **BEFORE THE WORK COMMENCES:** the equipment is in an appropriate state of repair and maintenance (incl. PAT) and not left where it can be accessed by an untrained observer e.g. children, vulnerable persons or casual passer-by
- **DURING:** the methods of work must be undertaken by trained personnel who are aware of the impact of the work and take all expected precautions
- **AFTER:** when the installation has been completed, it is to be tested for ease of use and **MUST** not be left in a manner whereby, when the unit is NOT in place, that any hazards are present. e.g. slip, trip or falls

It is vital that clean methods and work practices are carried out, to ensure that all sealing surfaces work effectively.

The installer is to demonstrate to the end user the functions and care requirements of the units installed and gain agreement that the installation has been achieved to their satisfaction.

The SSFD requires professional installation by a registered installer; in addition the installer is required to have undergone Steel Security & Flood Door Installation Training to understand the specific components of the product that differentiate it from a standard (non-flood) steel door, and therefore the additional competency that is required when fitting a Steel Security Fire & Flood Door. The SSFFD must be handled with care and strict adherence to the instructions in this installation manual, and also to ensure that the end user/customer is apprised of safe working practices during and after a flood, as per the manufacturer's instructions.

■ Installation

Preparation

Measure the structural opening at several points to check that it is square and level, and is to the correct dimensions as ordered.

Please observe the correct fixings for the correct structures:

- **Timber Structures**
10 x 50 Coach Screw; 7.5 x 82 Self Rolling fixings
- **Steel Structures**
7.5 x 82 Self Rolling fixings; M10 x 60 Hex Bolt & Nut
- **Brick Structures**
12 x 75 Monti Bolt or 8 x 100 Self Monti Screw



The fixings must be able to support the weight of the door, the wrong type of fixing can cause the frame to not sit securely and bring about future problems.

■ Installation

Fitting to the Structural Opening

- Remove the door from the pallet and remove all packaging
- Remove the keys from the frame
- Offer the frame up to the opening, assuming it fits ok. You must then position the hinge side jamb to the wall, level the jamb from front to back until square. Firstly fix the top hole and then the bottom
- Then position the strike side jamb and fix the top hole only
- Door must now be hung on the hinges. Close the door and adjust the bottom leg to suit the door
- Make sure the door leaf is free to swing with no obstructions on the floor, if necessary re-move obstruction from the floor or jack up the leg of the jamb with shims until the door passes the obstacle
- When you're happy that the door is hanging correctly, fix the bottom hole then continue with the rest of the fixings. All fixings must be used
- Check all gaps around the door are, 3mm to the top of the leaf and 3mm to the hinges and 5mm to the strike side. If the centre gap seems to be in excess use the hinge packers provided to close the gap. These can fitted knuckle side, behind the hinge without re-moving the hinge
- Fit the door seal (if needed)
- Plug the large holes with grommets supplied

- When totally satisfied that the door is fitted correctly, apply mastic internally and externally to create a good seal
- For Fire Rated doors please follow as above, but please use Fire Sealant to BS476 part 22 standards, failure to do so may invalidate the certification
- For Acoustic doors please follow the above, but please use Acoustic Sealant, failure to do so may invalidate the certification



ATTENTION!

Standard Sashlock (including escape), Latch, Night Latch Receivers come as standard with a half-moon on the latch section, this has been designed for filing down on site to ensure that the door shuts snug when closed.

All doors closers and stays are supplied to the manufacturer's settings; you may need to adjust the door closer or stay after fitting the door.

Standard Panic Latch receivers have an adjustable tongue, this may need to be adjusted if there is rattling in the door. This is easily done by removing the strike plate and using a flat edge screwdriver and gentle prise open to minimise or even stop the rattle in the door.

Use of Sealants

Care must be taken when applying any sealant; you must always follow the manufacturer's instructions and the safety information on the tube.

■ Installation

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Doors do not fit in the frame.	Wrong door being offered.	Check the identification number on the top of each leaf and in the top hinge of the frame. They should be identical.
Doors will not close.	Mortar fouling closing surface. Foreign object between leaf and hinge jamb.	Clean and re-try. Clear and re-try.
Door will not shut on the latch.	Half moon on the receiver as not been filed down enough.	File down receiver.
Door closer doesn't shut the door correctly.	Door closer needs adjusting.	Adjust according to the fitting instructions.
Doors will not shut to frame at the top and/or bottom.	Frame out of square. Door bent.	Correct by shimming as necessary. Straighten it; place the door on two blocks, one at the top and one at the bottom, so the bow is facing up. Place pressure on the bow until the bend is out and check with a straight edge, then re-fit.
Drop bolts will not engage in the frame.	Debris fouling receiving hole. Frame not level or square.	Clean out and re-try. Re-align by shimming as necessary.
Door leaves not level at centre.	Frame not level and/or square.	Re-align by shimming as necessary.
Panic furniture not operating correctly.	Frame/Mullion/Transom misaligned causing stress on panic furniture. Panic furniture not on correct doors.	Remove frame section and re-fit square and level, re-fit panic furniture. Swap panic furniture with other door (see labelling on boxes).
Too much play on panic latch.	Panic Latch tongue as excessive play.	Adjust tongue on receiver.
Nemef Triple Locks Top and/or Bottom bolt doesn't line up.	Frame not level and/or square.	Re-align by shimming as necessary.
Unable to lock the door.	Centre strike plate not filed enough.	File and re-try.

Any questions? Contact M3 Floodtec on +44 (0)1905 676467



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