



# M2MFL FITTING INSTRUCTIONS

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## SURVEYING

Accurate surveying is important for a correct installation and should be undertaken by a qualified person. Please take good measurements and supply accurate width and heights for each door to the nearest millimetre.

Most steel door manufacturers will make the outside dimensions of the frame 10mm smaller on the width and 5mm smaller on the height. Bradbury follow the same principle so that there is a 5mm tolerance gap on both sides of the frame and above the frame on the height.

Where the opening is not square it is the installers responsibility to make the opening square. This is important as Bradbury are not responsible for water leaking around the frame.



Decide where the door is to be installed. Be aware of any obstructions that will interfere with the opening such as skirting boards, door handles, wall fixings etc.

Make sure the structure to which the door will be fitted is strong and solid.

The flood door will leave a 80mm Door Cill for the door to seal against the frame.

## EQUIPMENT & TOOLS REQUIRED

- Masonry drill and drills to suit fixings (follow the minimum fixing standards)
- Pencil or marker pen
- Spirit level
- Steel tape
- Fixings to comply with the minimum fixing standards
- Tools to install fixings, i.e. cordless/corded drills
- Mastic or similar filler

## PRE-INSTALLATION CHECKS

- Check that the door frame supplied will fit into the opening
- Ensure the area is clear of all obstructions
- Open supplied package and check contents against delivery note
- Check that it is safe to drill around the opening (no electrical cables, gas pipes etc)
- Make sure the structure to which the door will be fitted is strong and solid

## MINIMUM FIXING STANDARDS

When installing security rated doors, the client must be fully satisfied that the structure around the aperture is more secure or equivalent to the doorset rating.

M2M<sup>2</sup>, M2M<sup>3</sup> and M2M<sup>4</sup> doorsets are LPCB certified to LPS 1175 SR2, SR3 and SR4, respectively. To ensure that the installation complies with the accreditation, follow one of the minimum fixing standards below.

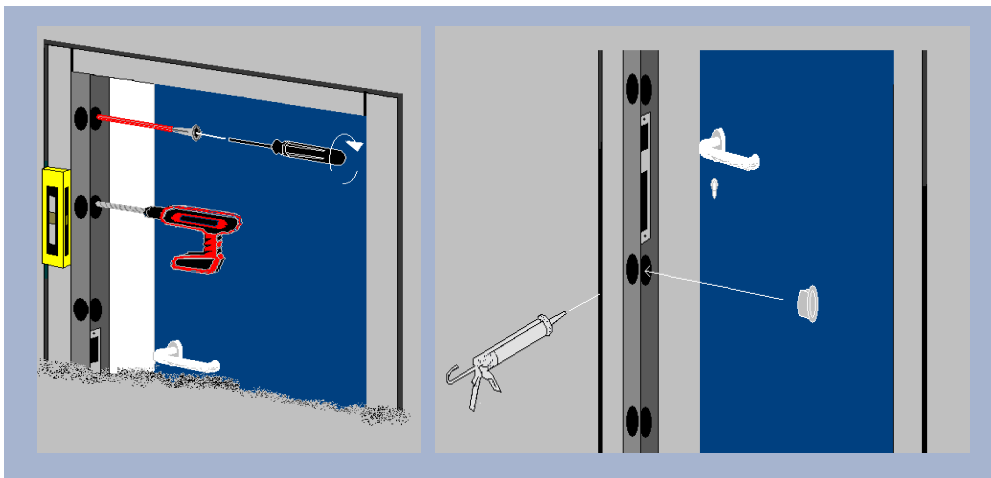
The minimum fixing standards (below) assume installation direct into substrate not via intermediate substrate, such as plasterboard. The perimeter of the door should be made good, using mastic or similar.

Door Type	Substrate						
	Brick, Block & Concrete			Steel			
	Min Qty	Size, Grade & Min Bolt Diameter	Min Length	Min Qty	Size & Grade	Min Length	Min Steel Thickness
M2M2 (SR2)	8	M8 8.8 Grade 8mm Dia	60-150mm	8	M8 8.8 Grade +	30mm	3mm
	8	Hilti Type Fixing 8mm Dia	60-150mm				
M2M3 (SR3)	8	M8 8.8 Grade 8mm Dia	60-150mm	8	M8 8.8 Grade +	30mm	3mm
	8	Hilti Type Fixing 8mm Dia	60-150mm				
M2M4 (SR4)	10	M10 10.9 Grade 10mm Dia	60-150mm	10	M10 10.9 Grade	30mm	5mm
	10	Hilti Type Fixing 10mm Dia	60-150mm	6	M10 12.9 Grade	30mm	5mm



## INSTALLATION INSTRUCTIONS FOR FLOOD DOOR

1. Run a large bead of mastic or silicone sealant along the bottom edge of opening, Place 5mm packers along the length of the threshold, Insert the door and frame into the opening and place the spirit level parallel to the frame. (Packers are required to produce the correct gap for sealing).
2. Drill & insert fixings down both vertical posts. Double check door alignment with spirit level and then tighten fixings. Use same method to secure the Bottom sill in position.
3. Test the door hardware, and adjust the door closer (if present) to the requirements of its instruction booklet, which will be provided.
4. A closed cell cavity foam rodding should be used to seal the outside of the building before sealing. Using a silicone sealant seal around the door frame and bottom sill inside and out.
5. Fit bungs in frames.
6. Re-check operation of door. Demonstrate door operation to customer and get the door signed off to customer satisfaction.

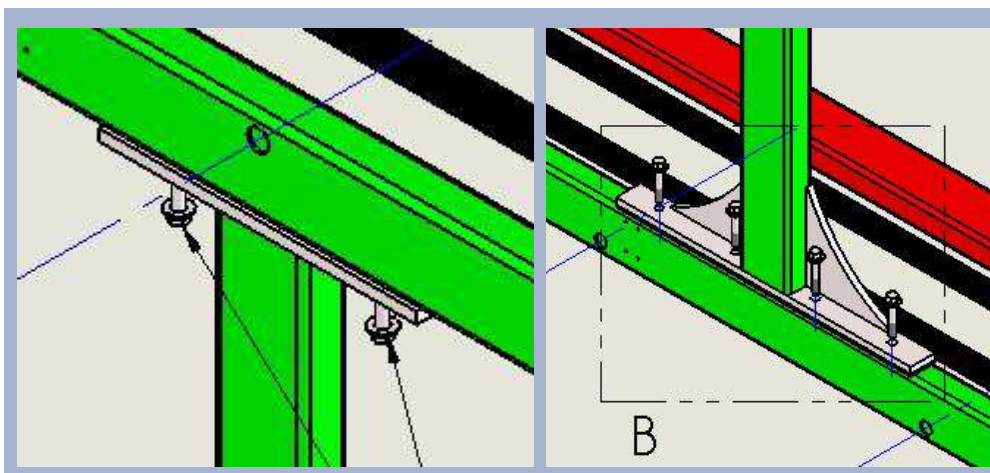


## ADDITIONAL REQUIREMENTS FOR DOUBLE DOOR ACCESS

### Double Door Mullion

The Centre mullion should only be removed when maximum opening is required. The Mullion is held in place by 2 fixings in the top and 4 fixings on the bottom. Open both doors and remove mullion fixings. Carefully remove mullion being carefully not to damage the neoprene seal on the bottom of the mullion. Carefully place mullion to one side laying it flat. (do not stand on neoprene seal.)

When installing centre post car must be taken to make sure mullion and frame are flat on sealing face.



## LOCKING INSTRUCTIONS

### SINGLE

1. Push the door firmly shut into the frame until you feel the latch engage.
2. Raise the handle 45 degrees, this is to ensure the seal is fully compressed and latch engaged (where present).
3. Insert the key into the cylinder and turn. (Where present).

### DOUBLE

1. Push the passive door (side with out lock) shut until it is tight to the frame.
2. Push the top and bottom bolts into position until fully extended.
3. Push the active door firmly shut into the frame until you feel the latch engage.
4. Raise the handle 45 degrees, this is to ensure the seal is fully compressed and latch engaged where present).
5. Insert the key into the cylinder and turn (where present).

Test the door by pushing the handle down, if the handle does not move this indicates the door is locked.

### DURING FLOODING M2MFL DOOR MUST REMAIN LOCKED

The above instructions must be followed to guaranty the latch engagement. The door may not work as a flood defense if lock is not fully engaged.

## MAINTENANCE / OPERATION STANDARD

**The M2MFL doors requires little maintenance, however the following is recommended to preserve its appearance and smooth operation:**

All hardware and surfaces to be cleaned on a regular basis by simply wiping with a damp cloth using mild detergents and dusting down with a soft clean cloth.

The hinges and lock(s) can be lubricated for a smooth operation of the door.

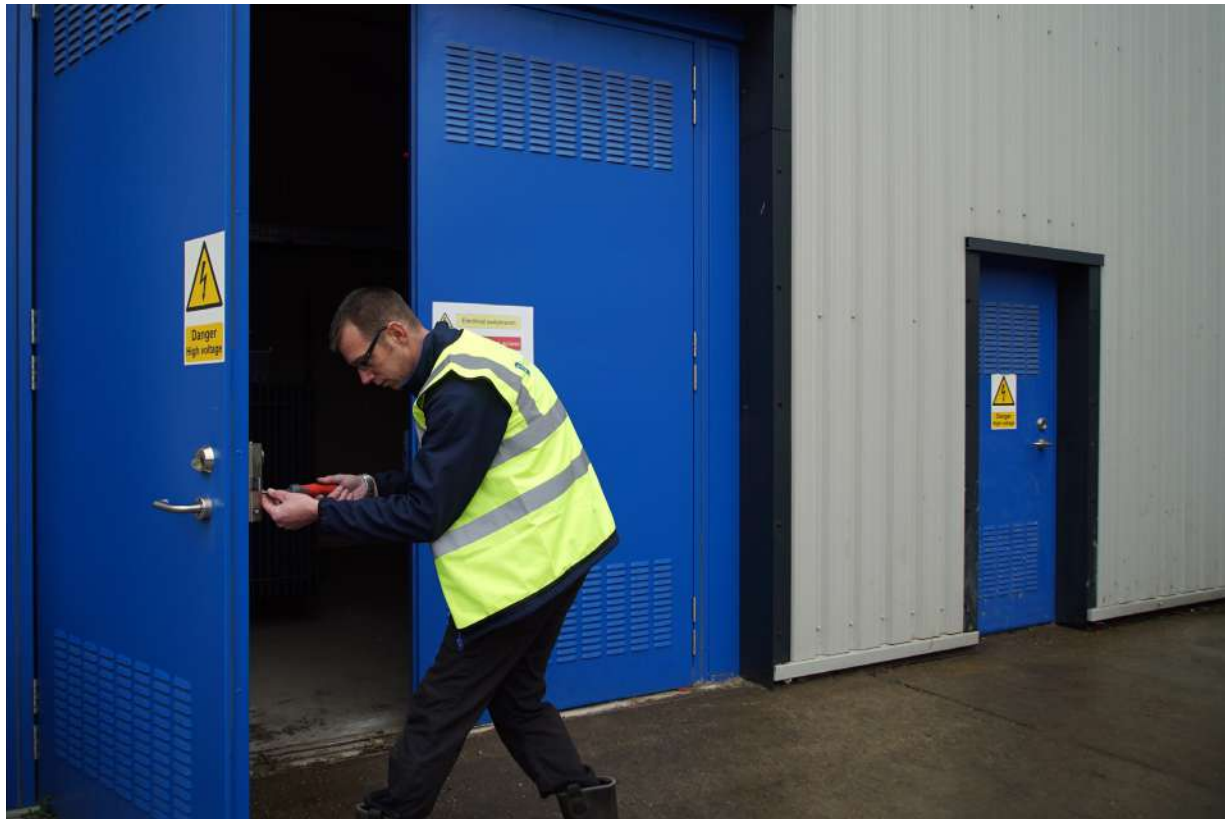
Do not lean any heavy objects against the door as this can affect the functionality of the door in the long run.

The door seal is made from EPDM rubber, so care must be taken when oil and fuel is removed from seal as this can cause distortion.

The seal should be checked after prolonged use and for damage that may have been caused in the use of the door and after flooding, and that it has not detached for the door surface.

Undamaged seals can be cleaned using warm water and a soft cloth. Clean rubber seals can be greased using Vaseline to prolong life (other products should not be used as these may cause damage to the seal or paint work).





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