

FITTING INSTRUCTIONS FOR - SINGLE DOORS



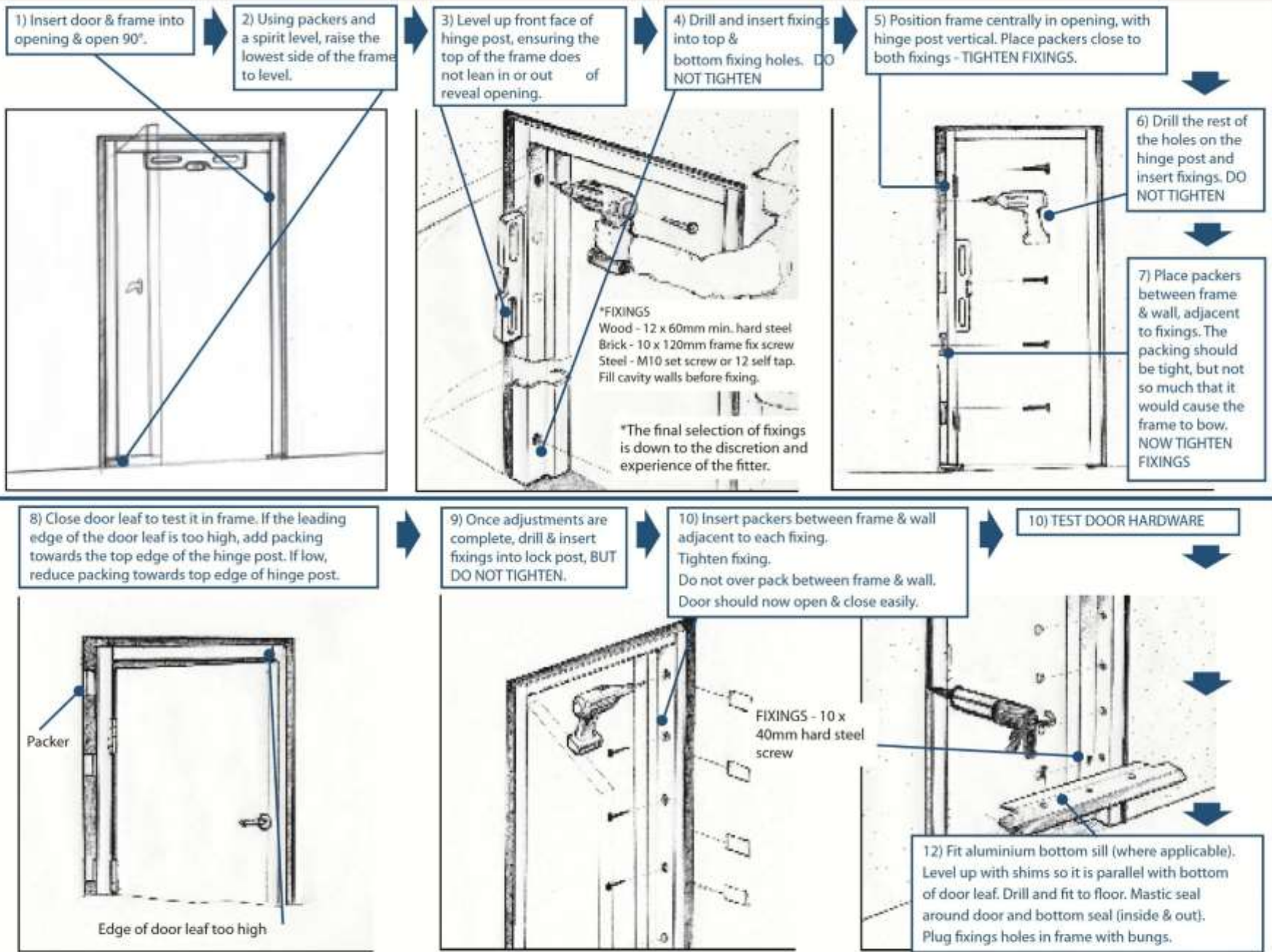
SURVEYING

Accurate surveying is important for correct installation. Please take good measurements and supply accurate widths 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. HM 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 installer's responsibility to make the opening square.



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.



ADDITIONAL REQUIREMENTS FOR FITTING FIRE RATED DOORS

- All fixings and hardware must be steel (no plastic)
- Fixings to the main structural surround should comprise of steel screws of sufficient length to penetrate the main structure by a minimum of 30mm, although 120mm is recommended. (Plastic rawl plugs are not acceptable)
- Steel screws to be inserted at a maximum of 500mm centres.

- Fixing holes may be covered using steel or plastic plugs
- Any packers / shims used during installation must be made from steel
- Gaps between the opening and frame should be less than 5mm and sealed with an appropriate acrylic mastic / caulk. Any gaps larger than this must be filled with steel

Double Doors

- An overlap of 18mm covering the passive door leaf (anti-pry strip) is required
- The passive door must be fixed top and bottom and the active leaf have a centre latch as minimum

Glazing

- Glazing cannot be any closer than 200mm from the edge of the door
- 0.17m² maximum area of glazing per leaf

FITTING INSTRUCTIONS DOUBLE DOORS



1) Assemble door frame, using fixing blocks & screws. Insert frame into opening & check to see which side of frame is higher.

2) Level up front face of hinge post, ensuring the top of the frame does not lean in or out of reveal opening.

3) Drill and insert fixings into top & bottom fixing holes on the higher frame post. DO NOT TIGHTEN

4) Position frame centrally in opening with 1st hinge post vertical. Place packers close to both fixings. TIGHTEN FIXINGS.

5) Raise up lower frame by placing packers under the lower hinge post. Ensure it is level by using a spirit level under top sill.

*FIXINGS
Wood - 12 x 60mm min. hard steel
Brick - 10 x 120mm frame fix screw
Steel - M10 set screw or 12 self tap.
Fill cavity walls before fixing.

*The final selection of fixings is down to the discretion and experience of the fitter.

6) Drill & insert fixings top & bottom of frame, inserting appropriate packers next to fixings (between hinge and aperture). Level up front face of this post (as spirit level). TIGHTEN FIXINGS.

SURVEYING

Accurate surveying is important for correct installation. 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. HM follow the same principle so that there is a 5mm tolerance gap on both sides of the frame and above the frame height.

Where the opening is not square it is the installer's responsibility to make the opening square.



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.

7) Hang doors on frame. they shut correctly and are hanging level. Test door hardware.

8) If the (doors do not shut correctly and are hanging level. Test door hardware. they shut correctly and are hanging level. Test door hardware. remove some of the both sides) at the top of the frame & tighten screw fixings. If the door leaves are binding at the bottom, remove some of the packing from the bottom.

9) Once the doors are positioned & working satisfactorily, the remaining holes (on both sides) should be drilled and the fixings inserted. Top sill may be drilled & fixings fitted as required.

10) Place packers between frame and reveal, adjacent to each fixing. Ensure the frame is not over packed as this will distort the frame. TIGHTEN FIXINGS.

11) TEST DOOR HARDWARE

Doors binding at the top

*SILL FIXING 8 x

12) Fit aluminium bottom sill (if applicable): Level up with shims so it is parallel with bottom of door leaf. Drill and fit to floor. Mastic seal around door and bottom sill (in & out). Plug fixing holes in frame with bungs.

ADDITIONAL REQUIREMENTS FOR FITTING FIRE RATED DOORS

- All fixings and hardware must be of sufficient length to penetrate the main structure by a minimum of 30mm, although 120mm is recommended.
- Steel screws to be inserted at
- Fixings to the main structural surround should
- Gaps between the opening and frame must be larger than this must be filled with steel
- Fixing holes may be covered using Double Doors
- Any steel packers / shims used during
- The passive door must be covered using acrylic
- An anti pry strip 18mm overlap of
- The active leaf have a centre latch as minimum
- Glazing covering 200mm from the edge of the door
- Glazing cannot be any
- 0.17m² maximum area of glazing per leaf

N.B. All images are for illustrative purposes only.

FITTING INSTRUCTIONS FOR DOORS WITH ADJUSTERS



EQUIPMENT / TOOLS

- Masonry drill and drills to suit fixings.
- Pencil or
- Spirit
- Steel
- Fixings to comply with the minimum
- Tools to install fixings, i.e.
- Mastic or

PRE- INSTALLATION CHECKS

- (Following
- Double check the opening to see if the
 - fit into the opening
 - Area to be cleared of
 - Open package and check contents against the
 - Check that it is safe to
 - (Electrical cables, gas)

For doors to be Rating 1 the following standard must be applied.

1

1a) Insert the door and frame into the opening and place the spirit level parallel to the frame.

b) Once the frame is sitting in the opening and is perfectly square, start screwing the adjusters through the tapped holes, so that the frame is secure with the opening. Make sure the top adjusters are fastened first, then the bottom adjusters and finally the middle adjusters. Care must be taken not to distort the frame.



A Hex Tool is supplied to tighten the adjusters.

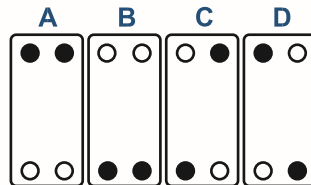
It is important that the TOP ADJUSTERS ARE FITTED FIRST as this will give a firm hold between the frame and the wall.

Take care not to distort the frame, especially in the middle, by over tightening the adjusters.

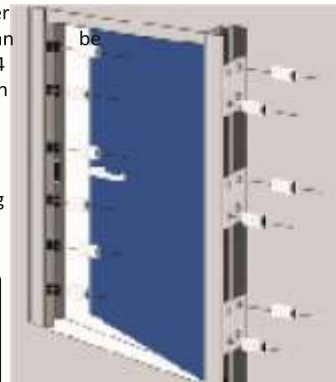
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There are 12 adjusters supplied per door (additional can be secured if required) and 24 each side into which adjusters can be secured.

The adjusters must be arranged using one or more of the following patterns:-



Once the adjusters are installed, open and close the door leaf to test in the frame.



Before the door is shut check that the lock and strike plate are in line.

The installation must be directly into substrate and not via an intermediate, such as plasterboard. The perimeter of the door should be made good using mastic or similar.

Into wood:

Use No. 14 x 50mm hardened steel wood screws (or longer). Must have a minimum of 6 fixings on both frame sides.

Into Block, Bricks and Concrete:-

Hilti type fixings 10 Must have a minimum of 6 fixings on both frame sides.

M8 x 75mm type Hex thread anchorbolt, or equivalent. Must have a minimum of 6 fixings on both frame sides.

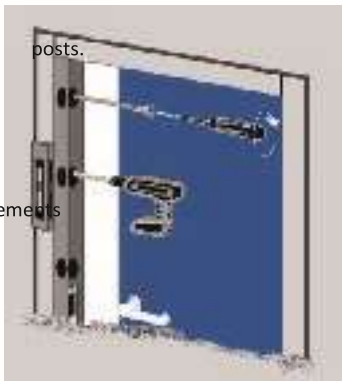
Into Steel:

M8 machine screws drilled and work. Use M8 x minimum of 6 fixings on both frame sides. Use No. 14 x 50mm screws. Must have a minimum of 6 fixings on both frame sides.

3

Once the adjustments are complete, drill and insert fixings down both vertical posts. (where applicable, drill the floor. Double-check door alignment with spirit level and then tighten fixings.

Test the door hardware and adjust the door closer (if present) to the requirements booklet, which will be provided.



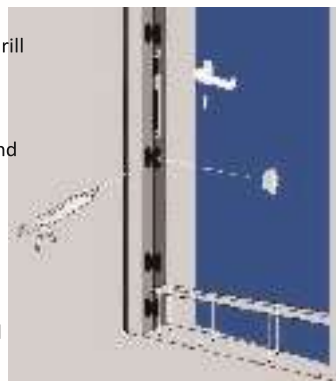
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To fit the bottom aluminium sill (where applicable), drill the floor.

Seal around door frame and bottom sill (inside and required).

Fit bungs in frames.

Re-check operation of door. Demonstrate door operation to customer and get the door signed off to customer satisfaction.



MAINTENANCE /OPERATION INSTRUCTIONS

Doors require little maintenance. However, the following is recommended to preserve the appearance and smooth operation:-

- All hardware and surfaces 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 lubricated for a smooth operation of the door.
- Do not lean any the door as this can affect the long term functionality of the door.