



FITTING INSTRUCTIONS FOR UP TO LSP1175 LEVEL 1 BESPOKE DOORS

MINIMUM FIXING STANDARDS

For all bespoke doorsets including LPS1175 Security Rating 1 the following standard must be applied.

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 x 80/30mm. Must have a minimum of 6 fixings on both frame sides.

M8 x 75mm type HEX flange head triple thread Ankerbolt or equivalent. Must have a minimum of 6 fixings on both frame sides.

INTO STEEL

M8 machine screws, drilled and tapped into framework. Use M8 x 30mm fixings. Must have a minimum of 6 fixings on both frame sides.

Use No.14 x 50mm (or similar) self tapping screws. Must have a minimum of 6 fixings on both frame sides.

MAINTENANCE/ OPERATION INSTRUCTIONS

- Bespoke doors require little maintenance, however the following is recommended to preserve its appearance and smooth operation.
- All hardware and surfaces should be cleaned on a regular basis by simply wiping with a damp cloth using a mild detergent and dusting down with a soft clean cloth. Do not use abrasives.
- The hinges and lock can be lubricated for a smooth operation of the door
- Do not lean heavy objects against the door as this can affect the long term functionality of the door.

FITTING INSTRUCTIONS FOR ALL BESPOKE DOORS

ADDITIONAL REQUIREMENTS FOR FITTING FIRE RATED DOORSETS

- All fixings and hardware must be steel (no plastic)
- Fixing to the main structural surround should comprise of steel screws sufficient length to penetrate the main structure by a minimum of 30mm. Although 120mm is recommended. Note* 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 / calk. Any gaps larger than this must be filled with steel

DOUBLE DOORS

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

GLAZING

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

SURVEYING

Accurate surveying is important for a correct installation. Please take good structural measurements and supply accurate width and heights for each door to the nearest millimetre. In order to do this we recommend the measurement is taken wall to wall for the width and floor to lintel for the height.

Most steel door manufacturers will make the outside dimensions of the frame 10mm smaller on the width and 5mm smaller on the height. North Valley Metal follow the same principle so that there is a 5mm tolerance gap on all sides of the frame. Where the opening is not square it is the installers responsibility to make the opening square.



Decide where the door is to be installed. Be aware of any obstructions that would 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.

FITTING INSTRUCTIONS FOR ALL BESPOKE DOORSETS WITH ADJUSTERS

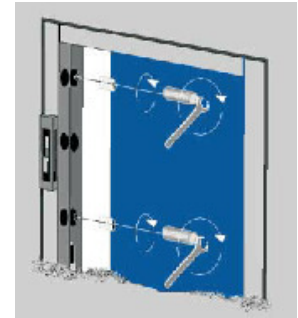
1.

- a) 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 and 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

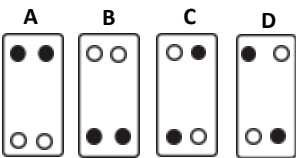
It is important that the TOP ADJUSTERS ARE FITTED FIRST. This will give a firm hold between the frame and the wall. Take care not to distort the frame especially in the middle by over tightening the adjusters.



2.

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

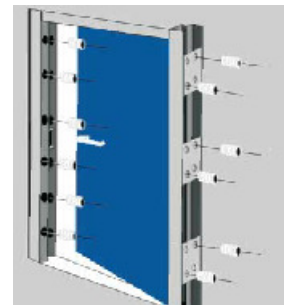
The adjusters must be arranged using one or more of the following patterns:



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



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



3.

Once the adjustments are complete, drill and insert fixings down both vertical posts. (Insert fixings to top frame only if required) 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 of its instruction booklet, which will be provided.



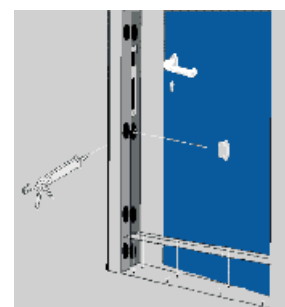
4.

To fit the bottom aluminium sill (where applicable) Drill and fit to the floor.

Seal around the door frame and bottom sill (inside and out) as required

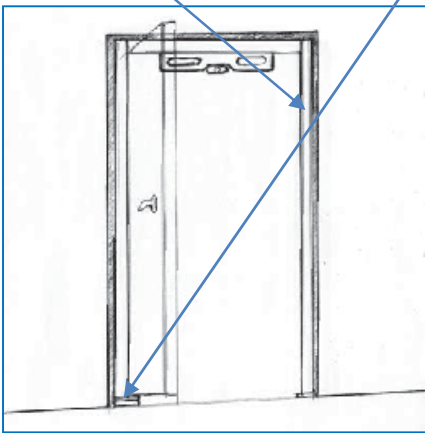
Fit bungs in frames

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



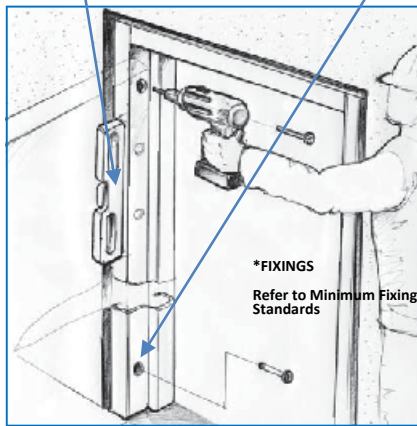
FITTING INSTRUCTIONS FOR BESPOKE DOORS WITHOUT ADJUSTERS - SINGLE DOORS

1. Insert door & frame into opening and open 90°



2. Using packers and a spirit level, raise the lowest side of the frame to level

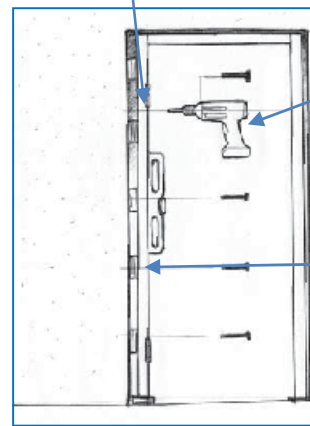
3. Level up front face of hinge post, ensuring the top of the frame does not lean in or out of the reveal opening



The final selection of fixings is the responsibility and to the discretion / experience of the fitter

4. Drill and insert fixings into top & bottom fixing holes. DO NOT TIGHTEN

5. Position frame centrally in the opening with hinge post vertical. Place packers close to both fixings - TIGHTEN FIXINGS

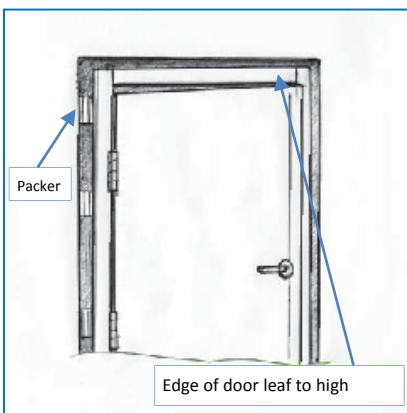


6. Drill the rest of the holes on the hinge post & insert fixings DO NOT TIGHTEN

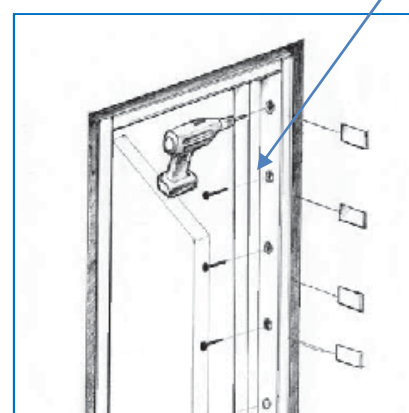
7. Place packers between frame & wall adjacent to fixings. The packing should be tight but not so much that would cause the frame to bow. NOW TIGHTEN

8. Close door leaf to test it in the frame.

If the leading edge of the door leaf is to high add packing towards the top edge of the hinge post. If low, reduce the packing towards the top edge of the hinge post.



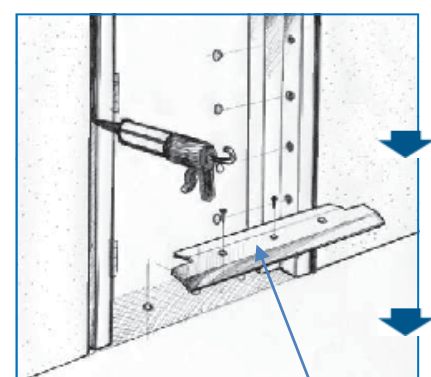
9. Once adjustments are complete drill & insert fixings down the lock post. DO NOT TIGHTEN



10. Insert packers between frame & wall adjacent to each fixing. TIGHTEN FIXINGS. Do not over pack between frame and wall.

Door should now open and close easily.

11. TEST DOOR HARDWARE



12. Fit aluminium bottom sill (where applicable).

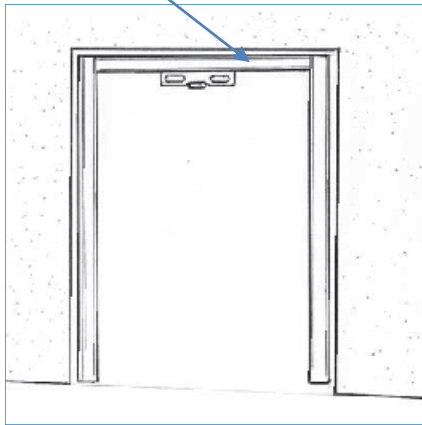
SILL FIXING* # 10 x 40mm Hard Steel Screw

Level up with shims so it is parallel with bottom of door leaf. Drill and fit to the floor. Mastic seal around door and bottom seal (inside & out) . Plug fixing holes in frame with bungs

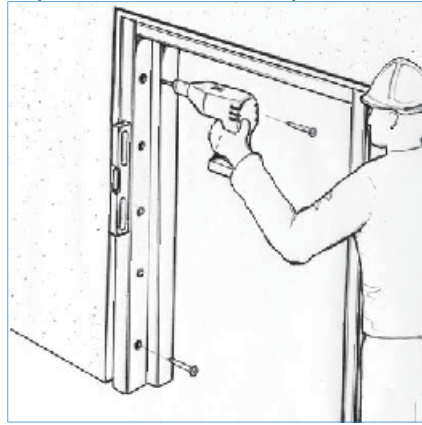
PLEASE REFER TO ADDITIONAL REQUIREMENTS WHEN FITTING FIRE RATED DOORS

FITTING INSTRUCTIONS FOR BESPOKE DOORS WITHOUT ADJUSTERS - DOUBLE DOOR

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

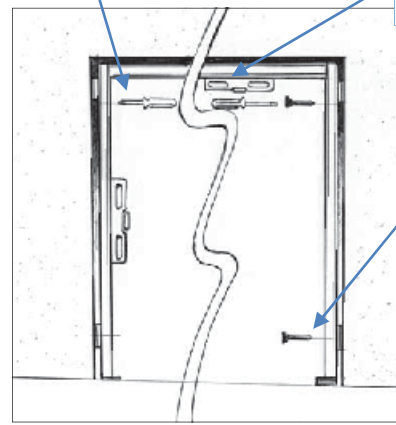


2. Level up the front face of the hinge post ensuring the top of the frame does not lean in or out of the reveal opening



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

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

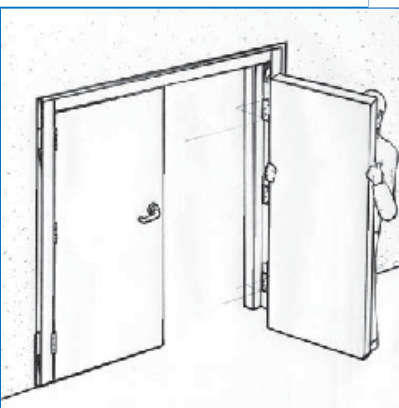


5. Raise up lower frame by placing packers under the lower hinge post. Ensure it is level by using a spirit level under top sill.

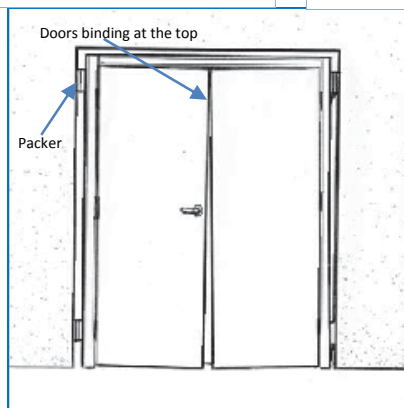
6. Drill & insert fixings top & bottom of frame, inserting appropriate packers next to fixings (between hinge post and aperture) Level up front face of this post (as above with spirit level) TIGHTEN FIXINGS

The final selection of fixings is the responsibility and to the discretion / experience of the fitter

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

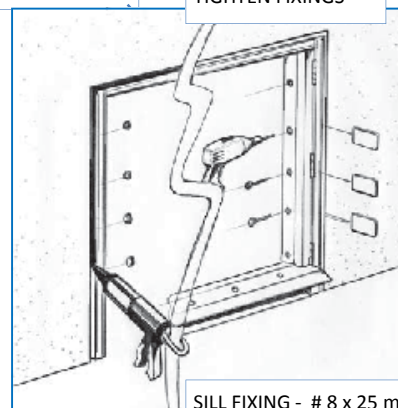


8. If the doors bind at the top, remove some of the packing (from both sides) at the top of the frame & tighten screw fixings. If the door leafs are binding at the bottom, remove some of the packing from the bottom



9. Once the doors are positioned & working satisfactorily, the remaining holes (on both posts) can be drilled and 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

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

SILL FIXING - # 8 x 25 mm hard steel screw