

# TECHNICAL GUIDE

# door installation

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\* This is recognised by The NHBC as confirming that units manufactured under this system are suitable for use in projects under their control and being the equivalent of The BSI Kitemark and The Q Mark.

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**Handling glass is dangerous. Always wear appropriate protective equipment (protective eyewear, heavy duty leather gloves, and steel toe capped footwear), ensure that all electrical tools are EEC compliant and electrically tested.**

## **TOOLS REQUIRED**

- Heavy duty gloves
- protective eyewear
- tape measure (metric)
- pencil
- light hammer
- masonry chisel
- Phillips screwdriver
- spirit level, electric drill
- hammer drill
- drill bits
  - 3mm HSS Pilot drill
  - 8mm HSS drill
  - 8mm Masonry drill
- skeleton gun
- crow bar (for removal of old door)
- jigsaw (for cutting your infill panel to the correct size)

## **BEFORE YOU START**

Do not leave the panel in direct sunlight as the protective film will react with the sunlight and become almost impossible to remove.

The keys to the door are fitted in the glazing rebate.

Before removing the existing door, check the size, style and hanging against your order. Check opening sizes. Remember the new door should be approx 10mm smaller in height and width than the brick opening.

Check that there is a damp proof course in the brickwork. If there is no damp proof course you must install one.

## REMOVAL OF THE OLD DOOR

Unscrew and remove the old door at its hinges. Then cut through the side jambs at an angle about one third up from the cill. Insert a crowbar and lever away from the wall. Remove all the frame and clean up any loose rendering or plaster.

## FITTING THE CILL

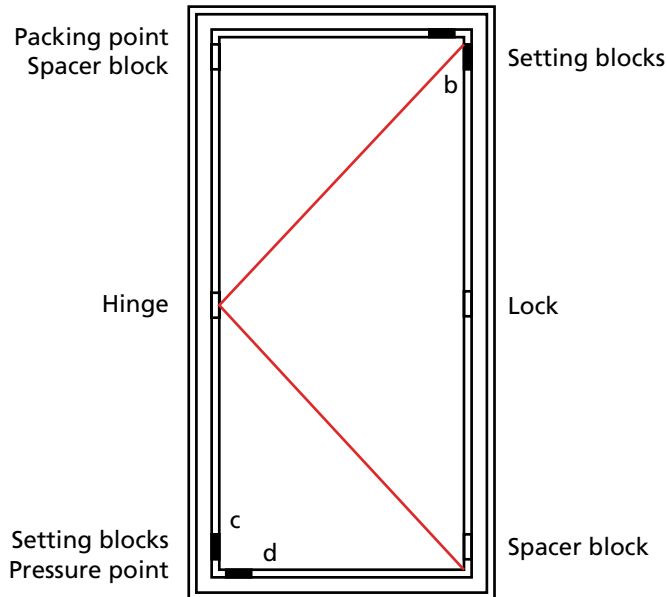
The cill is supplied oversized to allow for any extension into brickwork etc. Cut the cill to the correct size and, if needed, silicone the cill end caps on. Make sure the cill is then fitted into the opening. Bed the cill onto a thin layer of mortar and make sure that it is set back in the opening in relation to the outside wall face. Once the mortar is set, fix the cill using frame fixers, one in the middle and one each end, making sure they are no closer than 150mm from the ends. Use Spirit level for a perfectly level cill. Use plastic packers if required. Run a bead of silicone along the back edge of the cill up stand, using silicone.

## FITTING THE FRAME

**Please note – Some doors are shipped with the sealed glazing units in place. If this is the case, remove all glazing beads and take out the glazed units before you start the fitting procedure – this will make the door easier to handle.**

The doorframe will sit on the cill and is secured to the brickwork at the sides using the frame fixers. With spirit level ensure that the new door is positioned vertically and where appropriate hard up against the plaster line. It is important to set the frame squarely in the opening and that it is not distorted in any way. Ensure the door is the correct way round, open in or out. Use the plastic packers provided to wedge the door into position. Do not bend the frame by over packing, use a spirit level and get the hinge jamb perfectly vertical and not bowing. Secure the hinge jamb to the brickwork, drill a 3mm pilot hole into the hinge jamb, then use the 8mm HSS drill, then use the 8mm Masonry drill, then using 8 x 130 mm fixing bolts, fix at least 150mm from each corner. Do not fix the top of the door as this may permanently damage the structural lintel. Use an expanding foam for this.

Secure the bottom of the frame to the cill using 50mm self-tapping screws. Next close the door and ensure that the door hits the seal all the way around the door, it should have equal coverage all the way round the door. When satisfied with alignment, ie, you may have to insert more packers, or remove them etc, secure the locking jamb with the frame fixers.



## GLAZING OR PUTTING THE PANEL INTO THE DOOR

**IMPORTANT:** You must remove the protective film once you have finished fitting your door, do not leave the panel standing in direct sunlight as the film will react with sunlight and becomes virtually impossible to remove. The panel infill is supplied to you at a standard press size. You will note it is too large for your door. It must be cut to size using a jigsaw. To obtain the cut size you must measure the inside rebates where the panel will fit, remove the glazing beads, then measure from the gap between the two rebate faces, (do not measure in between the beads rubbers) Both for the height and width deduct 12 mm from these two sizes and then mark the sizes onto the panel – don't remove the protective film unless using a pencil, then cut the surplus off the height and width from the panel. The panel is fitted into the rebate; please refer to toe and heeling.

Remove the glazing beads and place packers into the corners (see diagram) hold them in place with silicone.

This method is classed as toe and heeling. If you are happy with the amount of packers fit the top bead first followed by the bottom one then both sides.

## MAKING GOOD

The space between the frame and wall now can be filled with silicone on the outside and decorators filler on the inside. DO NOT infill the gap with mortar or any rigid material. Now fit the hinges covers and wipe down with a damp cloth or non-abrasive cleaner.