

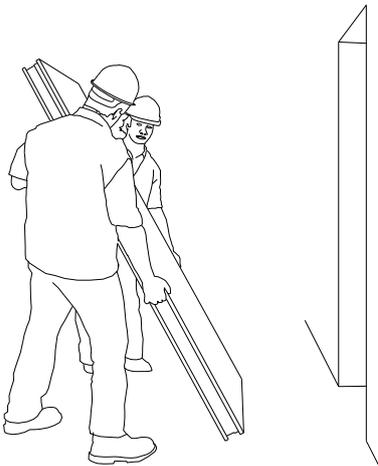
# Installation Instructions

## X15-3 single doorsets fitting into concrete walls



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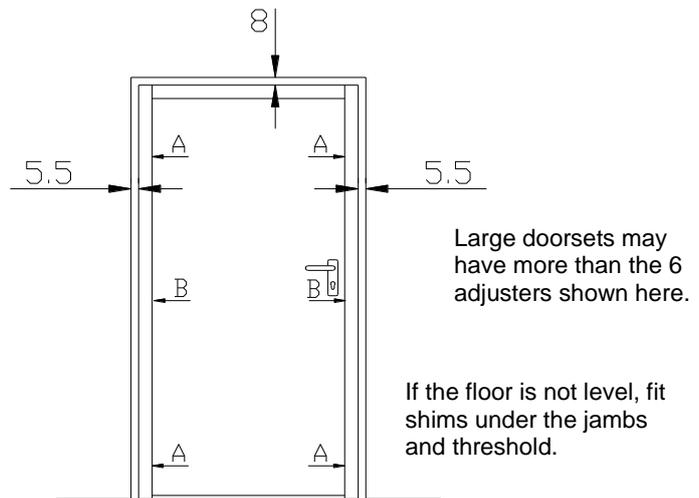
To install DoorTechnik X-series security doorsets correctly and safely, please read these instructions before starting the installation. To comply with the as-tested security certification, take particular note of the fitting clearances in Step 2, the minimum frame setbacks shown in Step 5, and the use of DoorTechnik approved frame fixings in Step 6 and Step 11.



### 1. Place the doorset in the opening.

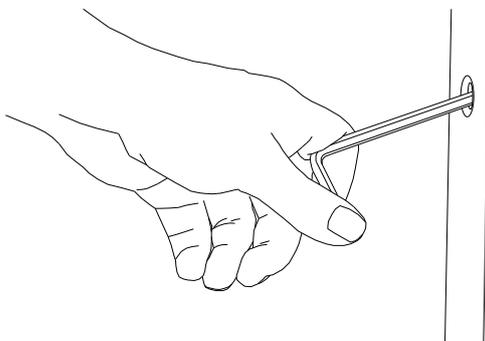
Lift by the handgrips in the frame – never by lever handles, panic bars or letterboxes etc.

**Weight warning: comply with local manual handling guidelines.**



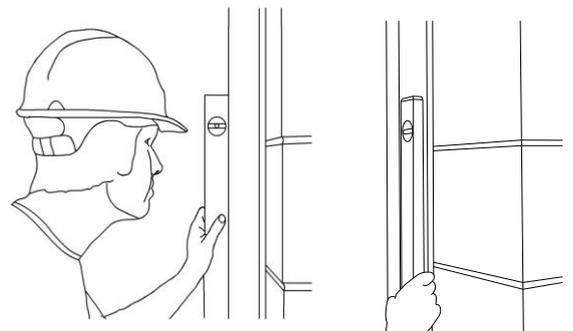
### 2. Align and grip the doorset in the opening, using the frame adjusting screws A in the corners, then the middle adjusters B.

Note the maximum fitting clearances shown above. Set the frame back into the wall, as shown in Step 5, to avoid the fixings breaking out of the wall.



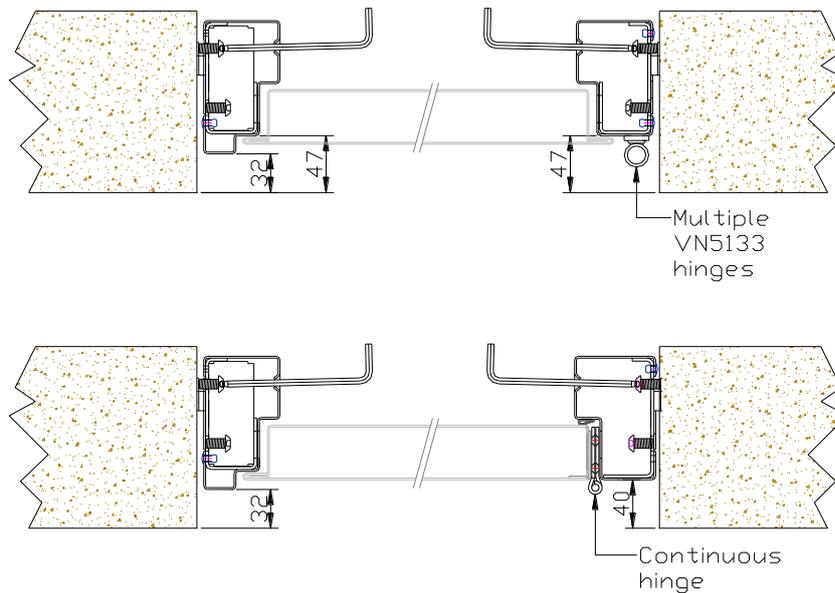
### 3. Tighten the frame adjusters clockwise, with a 5mm ball-ended Allen key, until the ends of the spreader plates are flat against the wall.

Access is gained through the countersunk holes in the jambs, angling the key 20° from horizontal.



### 4. Ensure the frame is vertical, in both planes.

**Warning: do not open the door until first fixings are in place, after step 6.**

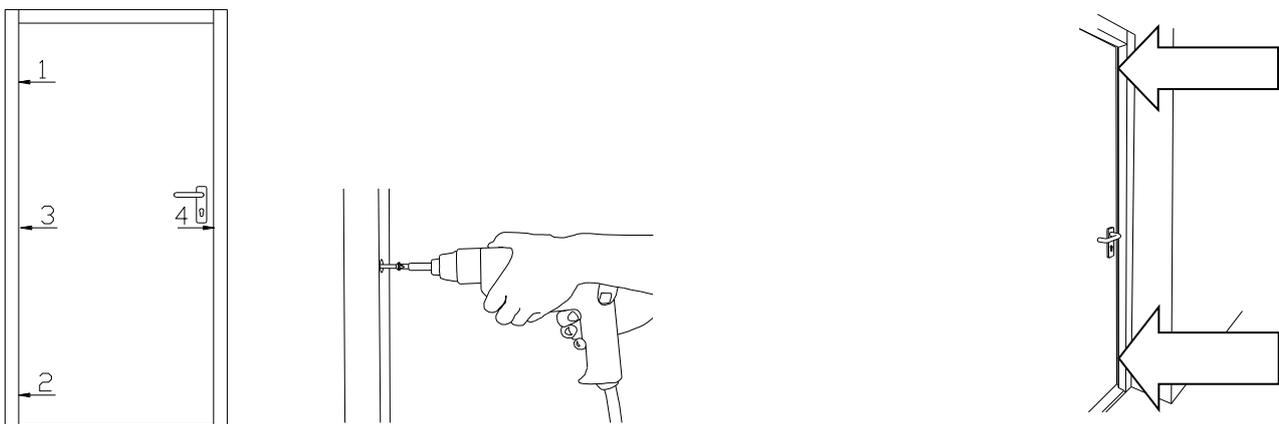


**5.** Set the lock jamb back into the wall a minimum of 32mm, to avoid the fixings breaking out of the wall later.

To keep the back of the jambs aligned, set the hinge jamb back:

- 47mm for multiple VN5133 hinges
- 40mm for a continuous hinge

Keep repeating Steps 2-5 until the doorset is true in the opening.



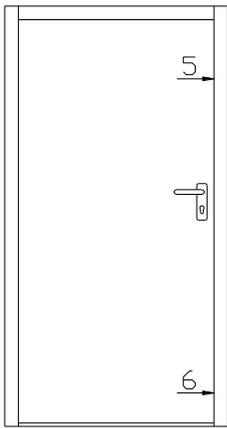
**6.** Using long countersunk frame fixings, first fix as shown, with 3 fixings in the hinge jamb and 1 in the lock jamb.

- For steel, use ITW Buildex TFL 100 or similar.
- For masonry, use Rawl frame fixings 8x120 or similar.

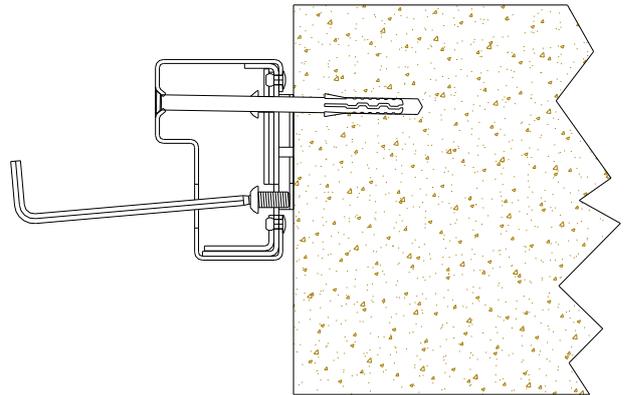
Vibration from a hammer drill can loosen the frame adjusting screws, so re-check tightness of the adjusters prior to inserting masonry fixings.

**7.** Open the door and discard the transit packings. With the door nearly closed, check the alignment between the lock edge of the door and the frame seal, at both the top and the bottom of the door.

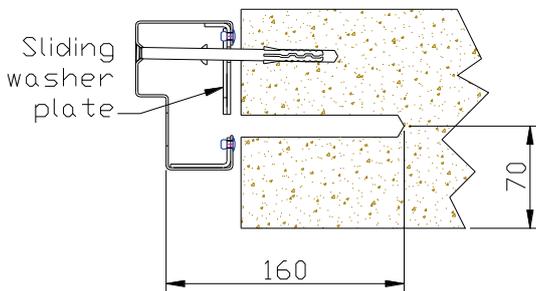
Pivot the lock jamb about the central fixing to achieve an even gap between the face of the door and the frame seal.



**8.** Close the door again, then fit the last 2 fixings into face 5 of the lock jamb.

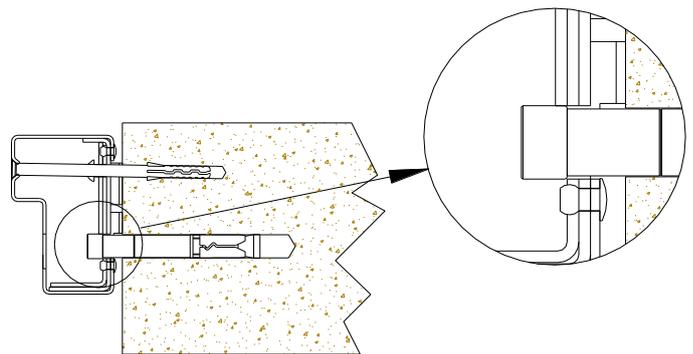


**9.** Open the door fully, then tighten the frame adjusters in the reveals. Using the 5mm Allen key, tighten the frame adjusters until the ends of the spreader plates are flat against the wall.



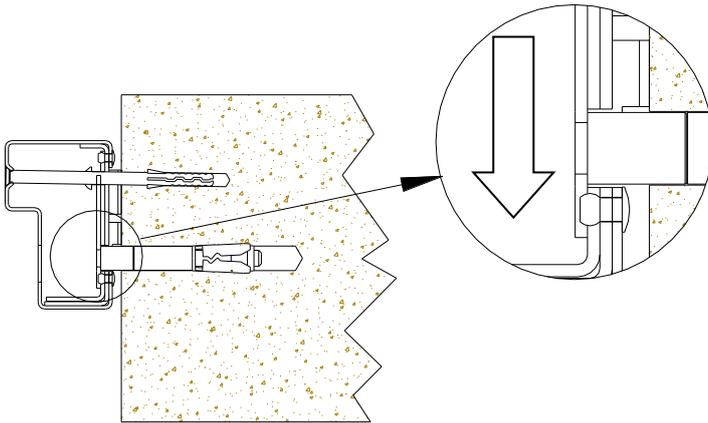
**10.** Ensuring that the sliding washer plate is away from, and not covering the 16mm frame tray holes, drill through the access holes in face 2 with a 15mm masonry bit to a depth of 160mm.

Vibration from a hammer drill can loosen the frame adjusting screws, so re-check tightness of the adjusters prior to inserting fixings.

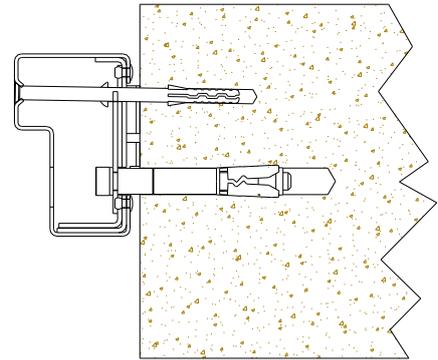


**11.** Insert the fixing as shown, so that the underside of the cap head screw butts up to the inside of the frame tray and does not cover the sliding washer plate. Partially tighten the screw, so that the fixing starts expanding and grips the concrete.

- For concrete, use only the DoorTechnik supplied fixings:  
Rawl SafetyPlus Loosebolt SPL-II-10105/020, fitted with M10x100 grade 12.9 cap head screw.



**12.** Unscrew and remove the cap head screw, leaving the frame fixing in the wall. Working through the frame access hole, move the sliding washer plate across, so that its 10.5mm hole is concentric with the 16mm frame tray hole.



**13.** Refit the 10mm cap head screw and tighten fully.

**14.** Fix threshold to floor with countersunk screws

- For steel, use ITW Buildex TFL 65 or similar.
- For masonry, use Rawl frame fixings 8x60 or similar.

**15.** Adjust any door closers to suit the on-site requirements. Refer to separate instruction sheet for full details.

**16.** Check operation of all locking mechanisms.

**17.** Apply mastic or flashings to seal frame to building.

**18.** Seal threshold to floor to avoid water ingress.