



# BOVALLS

*dörrbyggeri*

## Instructions for installing security doors in classes RC-2 & RC-3

Installing must be done professionally for any warranty obligations. It is not easy to install a door. We recommend that a professional carpenter installs the door if you're not experienced.

**NOTE: The warranty does not apply if foam is used when installing the door. If foam is used, you cannot adjust any mistakes during installation or adjust any manufacturing defects like you can with frame screws. Also, the foam can swell after appliance which can compress the doorframe.**

1. The frame should always be fastened using all the predrilled holes. The preassembled frame screws should always be used. Make sure you get a strong anchoring between the frame and the wall. The space between the wall and the frame should never exceed 15mm. In this space, between the attachment points (3 per side, in-between the screws) we recommend putting a small wedge to prevent the wood from being able to flex. This greatly increases burglar safety, as the door wont flex from the wall if attacked with a crowbar.

2. Set up the frame without attaching it. Stack thin Masonite pads until the threshold is exactly horizontal. Add a moisture barrier, it is particularly important if the frame is on a concrete slab. The threshold must be supported during the all its width. This is especially important on the hinge side since the entire weight rests there.

3. Place the frame in the door hole and unscrew the frame screw-sockets until they reach the wall without squeezing the frame. Screw in the top and bottom screws on the hinge side first. Insert the top and bottom screw at the other side. Then hang in the door leaf and adjust and install all frame screws.

Adjust the frame so that it stands vertically outwards / inwards and make sure the frame is exactly horizontal on the blocks below the threshold. It is very important that the frame is exactly vertical. Use a long spirit level to check this.

4. Fix the frame screws according to the manufacturer's instructions, and check that the frame does not move out of position.

5. Make sure that the frame is vertical and check that the diagonal measurements are equal. Adjust if necessary using the frame screw-sockets. Measure the width of the frame farthest out on the inside of the frame to check that the side pieces have not turned out of angle. Check the frame to make sure that the width is the same from top to bottom.

6. Hang the door leaf in the frame. **Make sure the door leaf strikes the strike plate side of the frame evenly at top and bottom. The door leaf should now stand still in different opening angles. If the door leaf is not still, the frame is not correctly inserted.** Loosen the frame screws and adjust the frame again. Remember that a small error now will cause irritation and problems later on. The gap between the frame and the door leaf should never exceed 3mm.

Door leaves with solid panels are sometimes a bit warped because the panel pulls the door leaf. Place the door leaf of the hinge side and apply the frame on the strike plate side after the door leaf.

7. Fill the space between frame and wall with tape drives. The warranty does not apply if foam is used when installing the door. If foam is used, you cannot adjust the frame with frame screws, adjust any mistakes during installation or adjust any manufacturing defects.

8. **The hinges can need height adjustment after assembly. Adjust the hinges with the Allen/Torx screw at the bottom of the hinge, until the gap from the top of the door leaf to the frame is approximately 2mm. (Does not apply to RC-3 doors) .**

9. **Closing pressure, i.e. how hard the door leaf is pressed against the frame, must be adjusted when the door is installed.** This is adjusted by adjusting the Allen/Torx screws on the strikeplate and adjusting the bottom part of the strikeplate left or right depending on which way the door needs to be adjusted. The door must be easy to open, yet dense.

10. Fit the cylinder and handle directly, so that no water gets into these openings.

11. Remember that adjustments may be needed afterwards because the door is made of a living material and the materials in the house can move a little.

12. **It is not allowed to make changes in the frame or door leaf without first contacting Bovalls and getting the changes approved.**

