



Installation Instructions for Hinged Doors

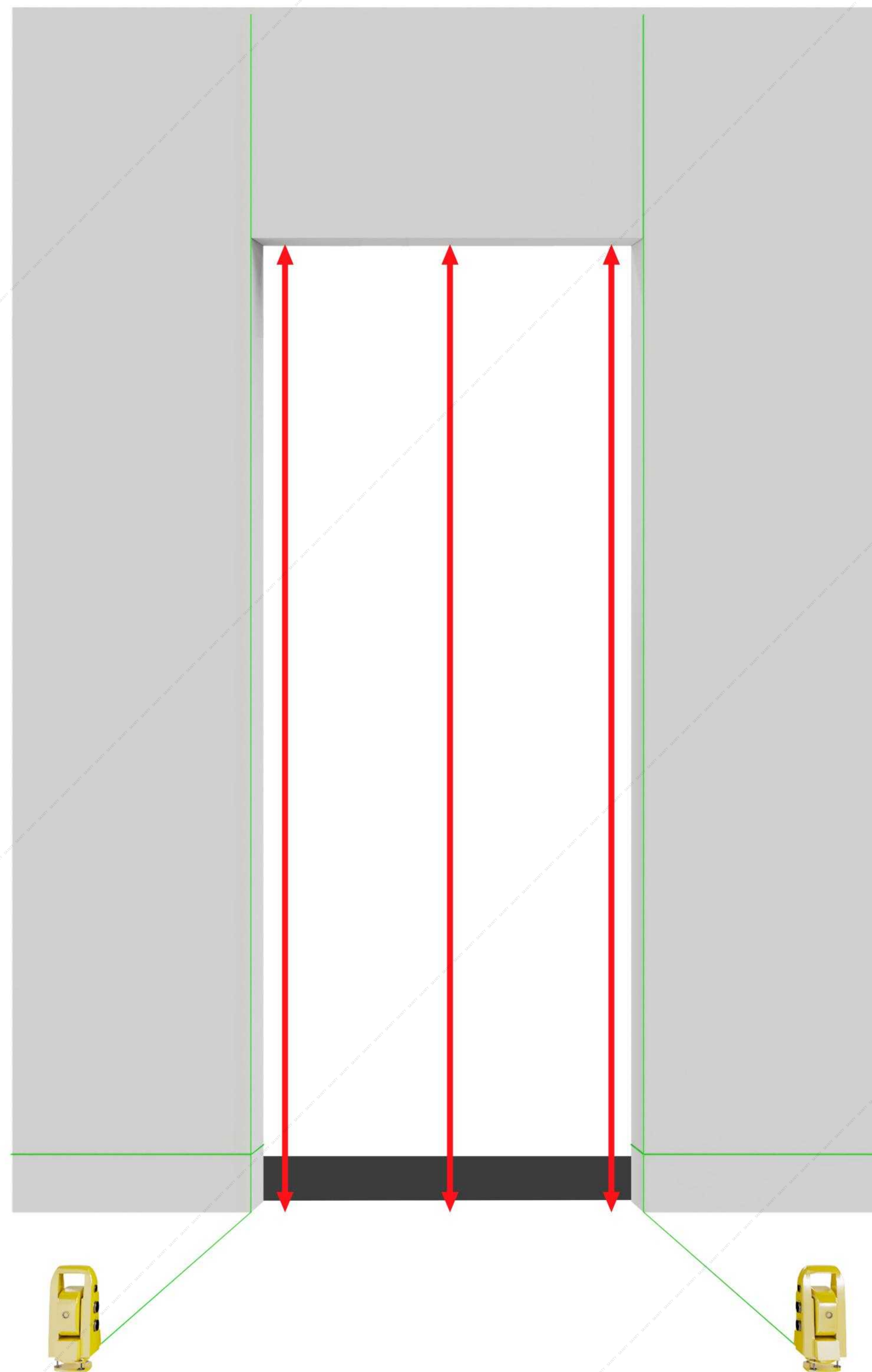
(Casement, French, Entry, Swing)



The installation method for the door type shown in the figure is the same as described below.

Attention: Installation Points

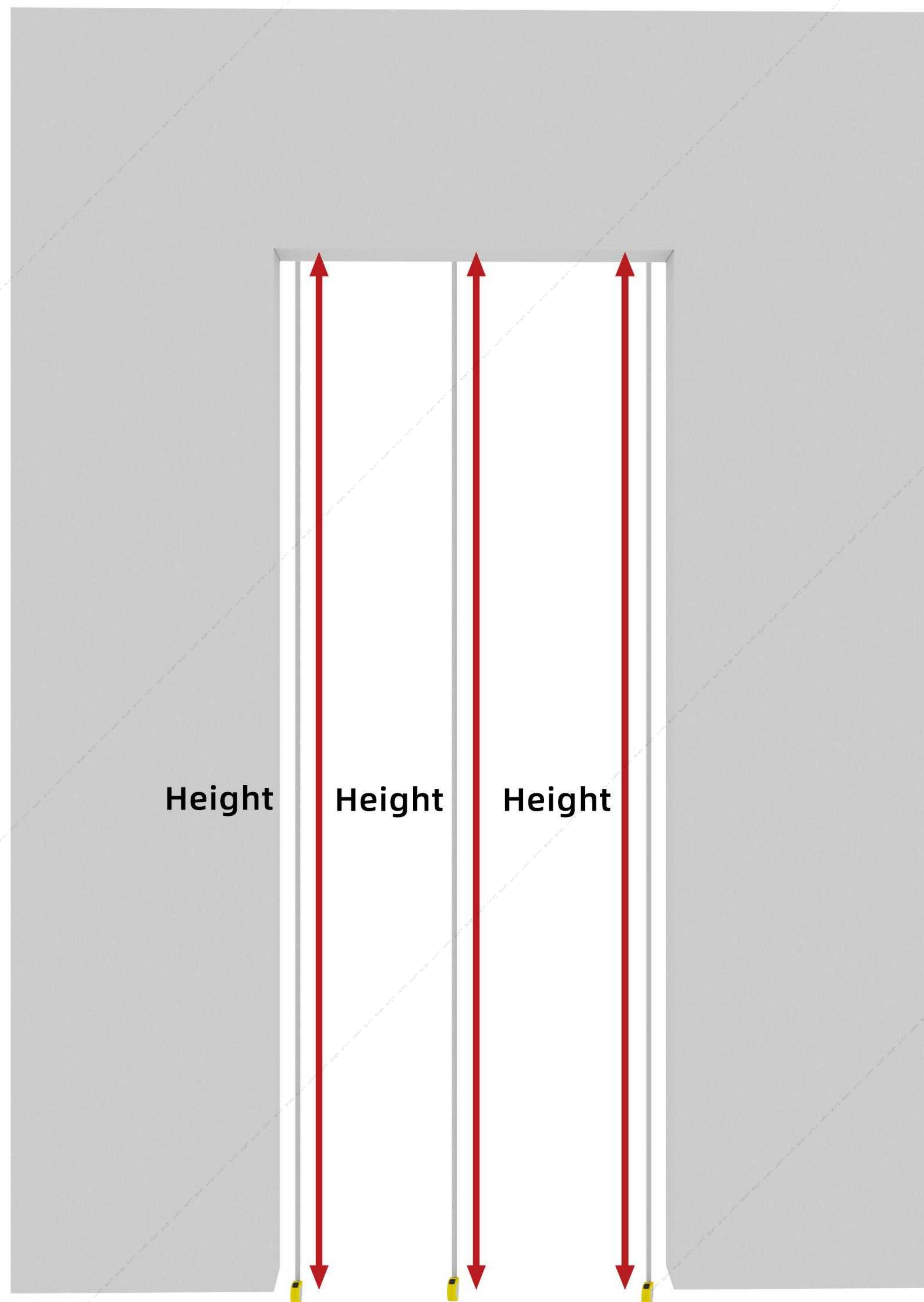
The following installation views are all shown from the interior. The door panels have labels only on the indoor side; you can use the labels to identify the indoor/outdoor orientation of the panels.



Measuring the Opening Level

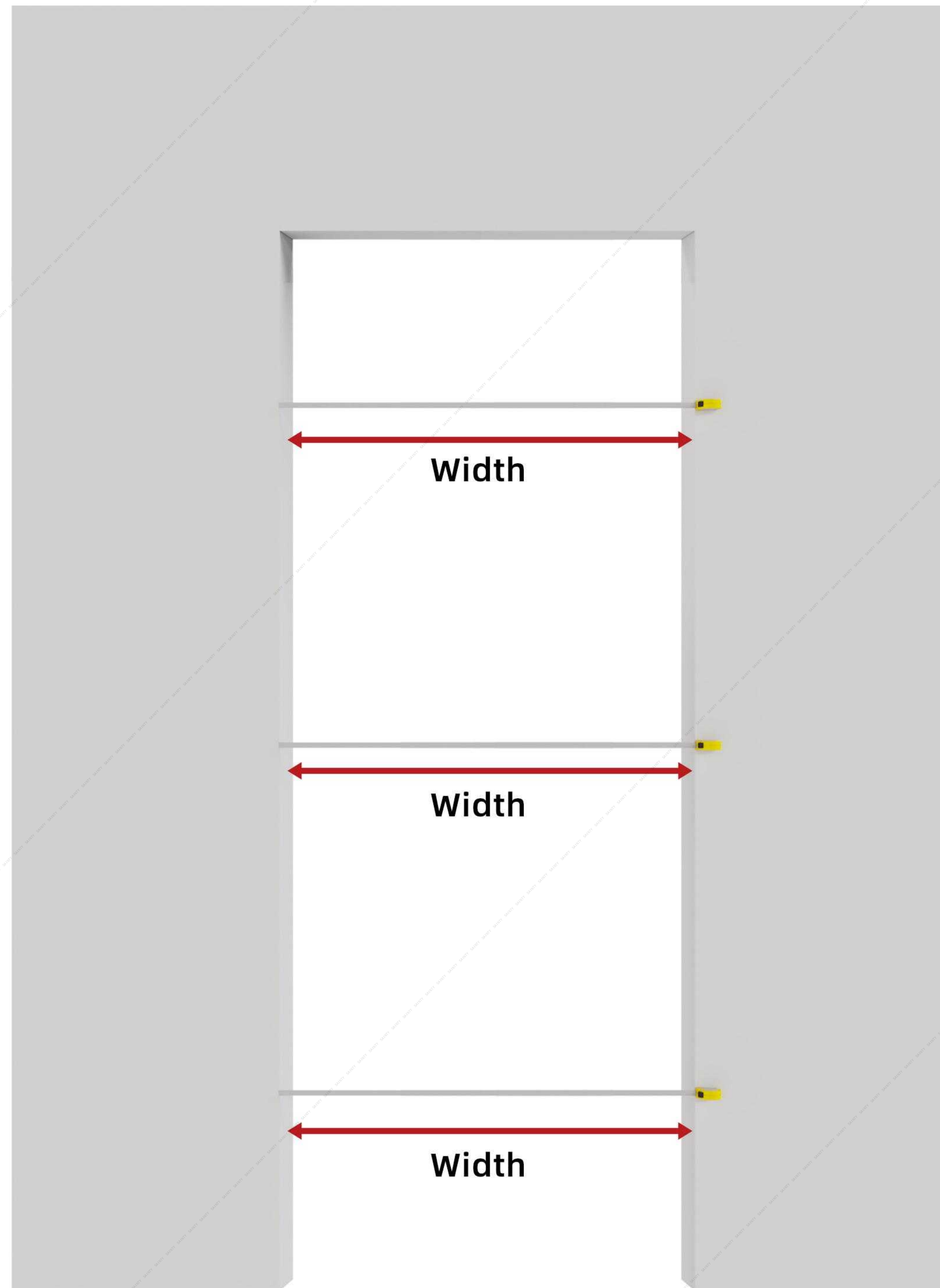
Use a level or other on-site leveling tools to measure the level of the opening, and also take multiple measurements of the floor level (checking the floor level is very important). If no problems are found, proceed to the next installation step.

The floor level must be given special attention, as it is critical for a smooth installation later.



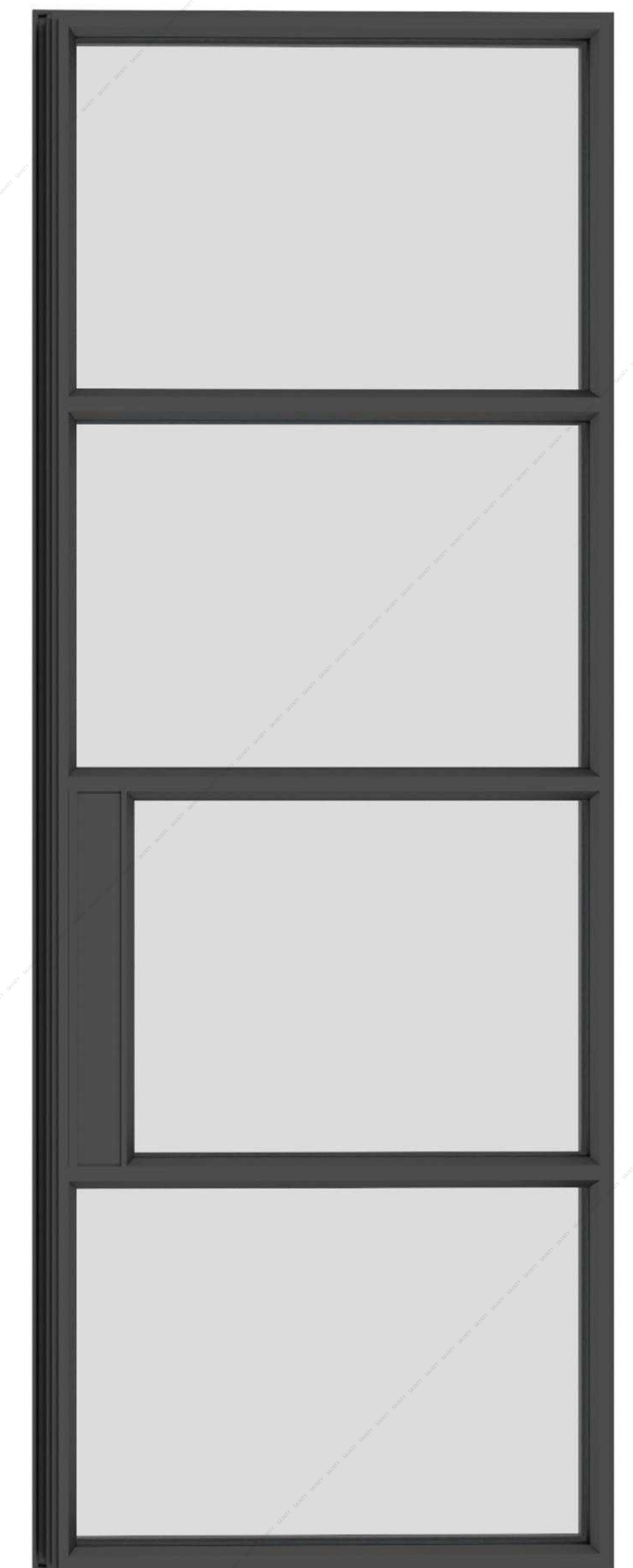
Measuring the Opening Width and Height

The overall width and height of the opening should have a tolerance of no more than 1 inch, and it is recommended to keep it within 0.5 inch. Both width and height must be measured at three positions (for width: upper, middle, and lower; for height: left, middle, and right), and the minimum value among the three measurements should be taken as the final data.



Measuring the Opening Width and Height

The overall width and height of the opening should have a tolerance of no more than 1 inch, and it is recommended to keep it within 0.5 inch. For each dimension, take measurements at three positions - for width, measure at the top, middle, and bottom; for height, measure at the left, center, and right. The minimum value among the three readings shall be recorded as the final dimension.



Tools and Components Required Before Installation

The door frame is generally pre-assembled at the time of shipment.

Installing the Door Frame (Leveling)

After placing the door frame into the opening, set up the three-line horizontal level. Use a level or other on-site leveling tools to verify that the frame is level and that the side frames are both plumb and straight (level and plumb). Measure the distance from the floor to the level line at three points (as shown in Figure 1) to check whether the readings are the same (see the actual photo in Figure 2). If the distances are not equal, continue adjusting the frame level and re-measure until all three measurements are consistent.

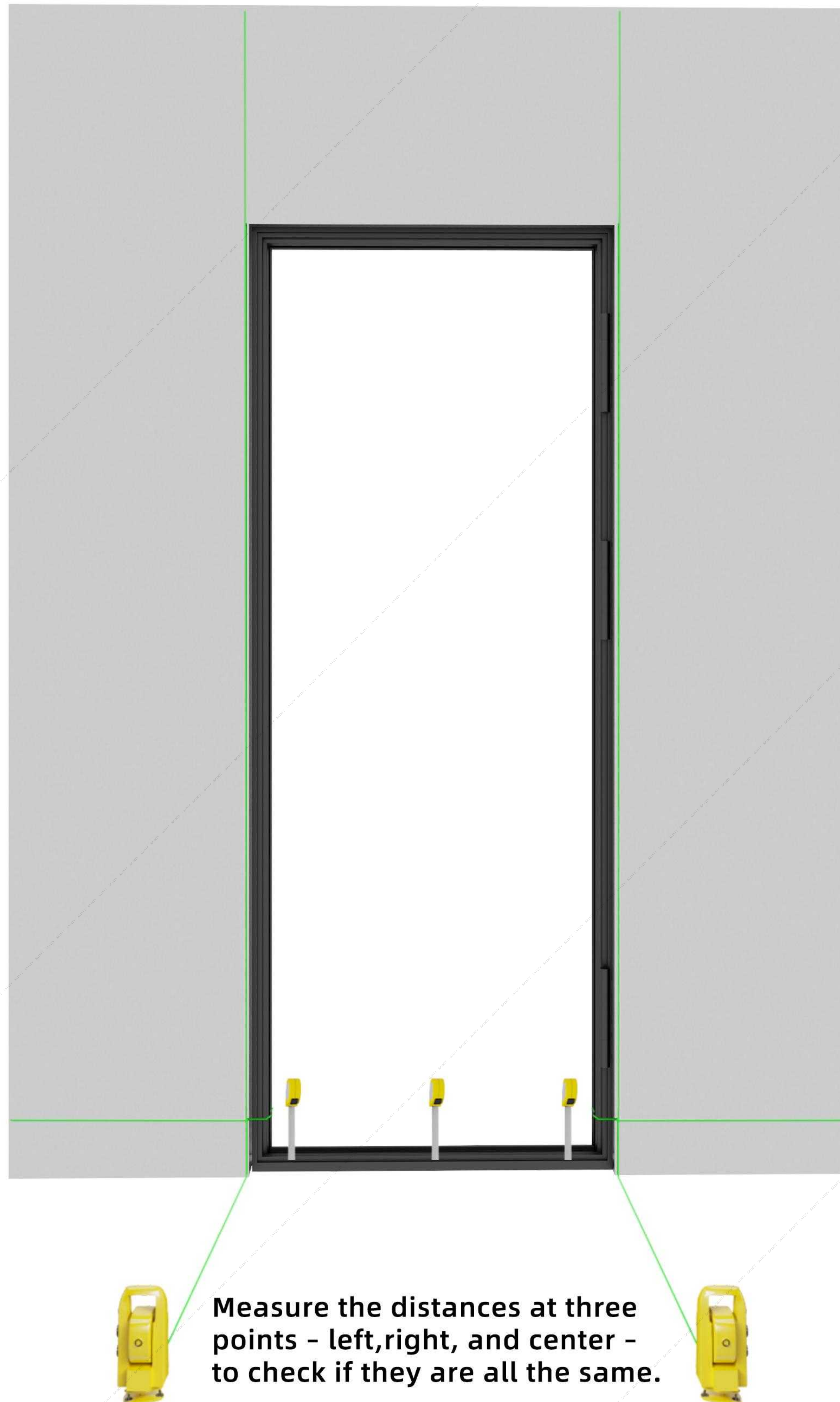
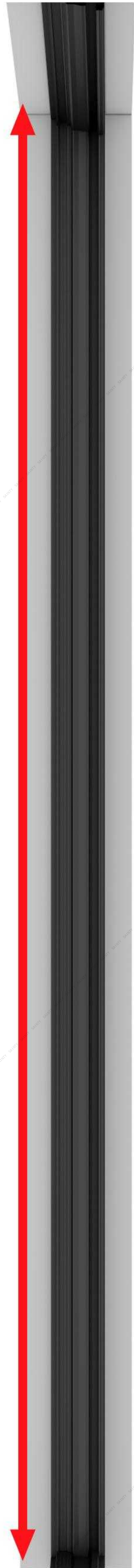


Figure1



Figure2



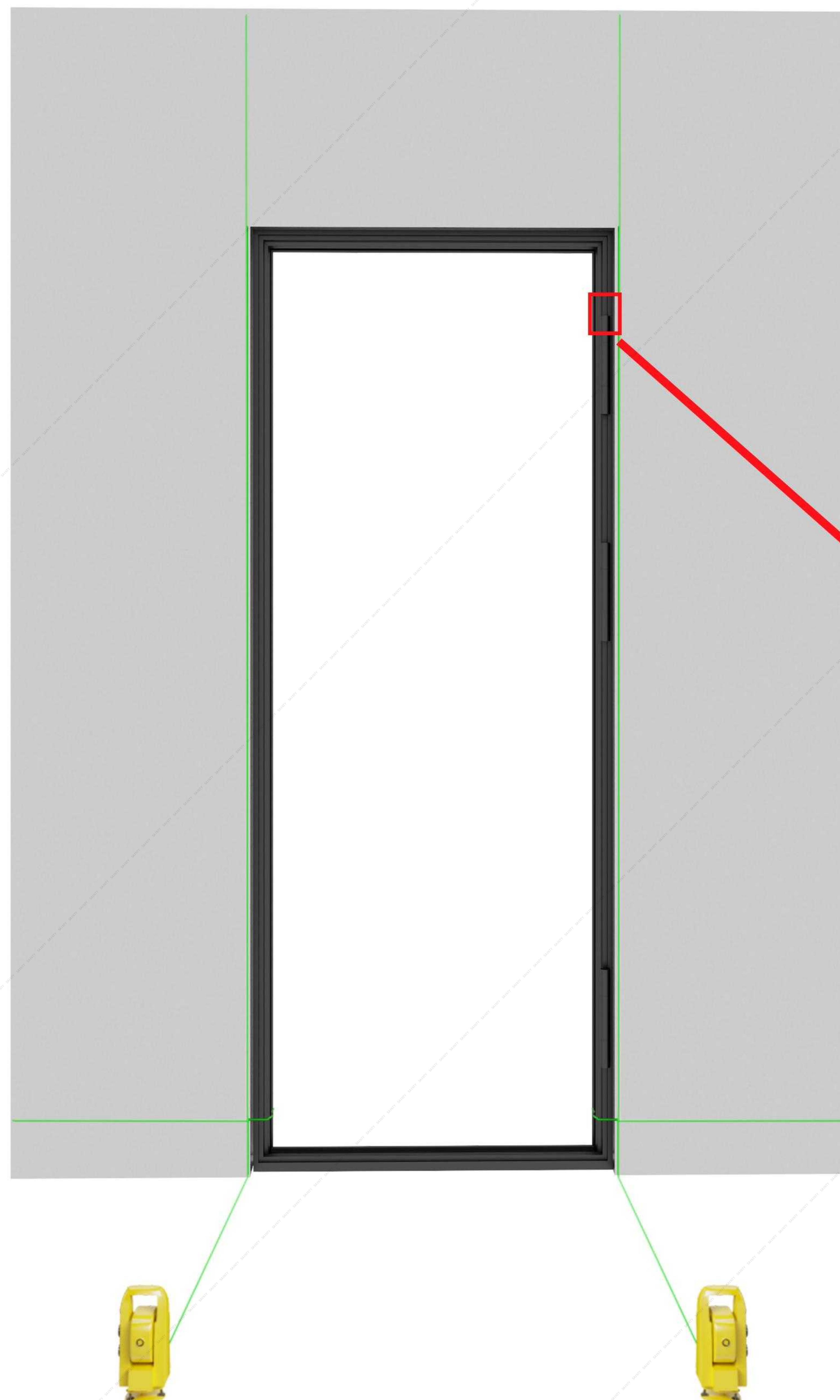
Level and plumb, no tilt or twist.



Not level or plumb, with tilt and twist.

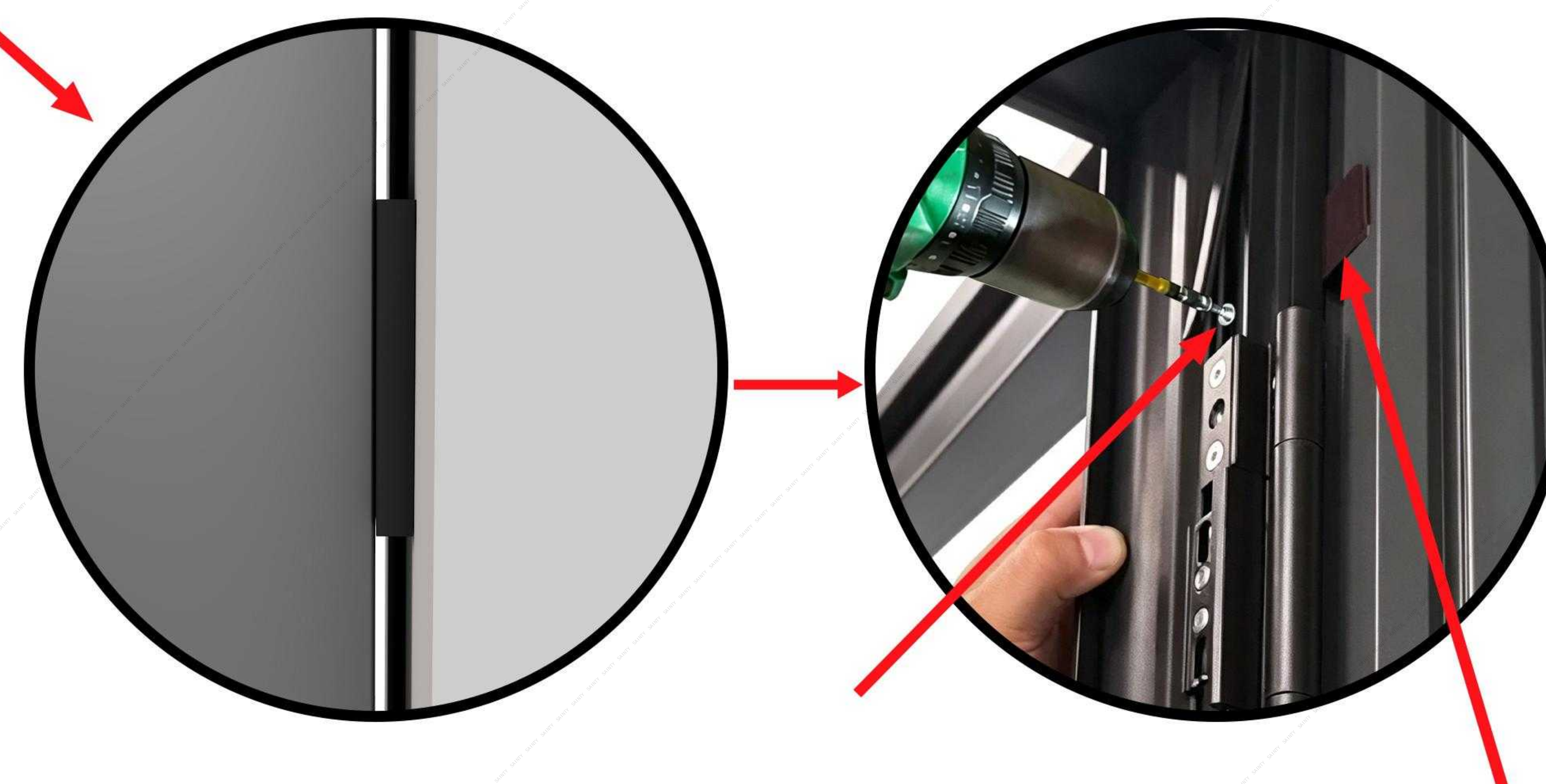
Leveling the Outer Frame

Make sure that the left and right outer frames are not tilted or twisted when viewed from the side, and check multiple times to ensure the frame is level.



Outer Frame Fixing Screws (Positioning First)

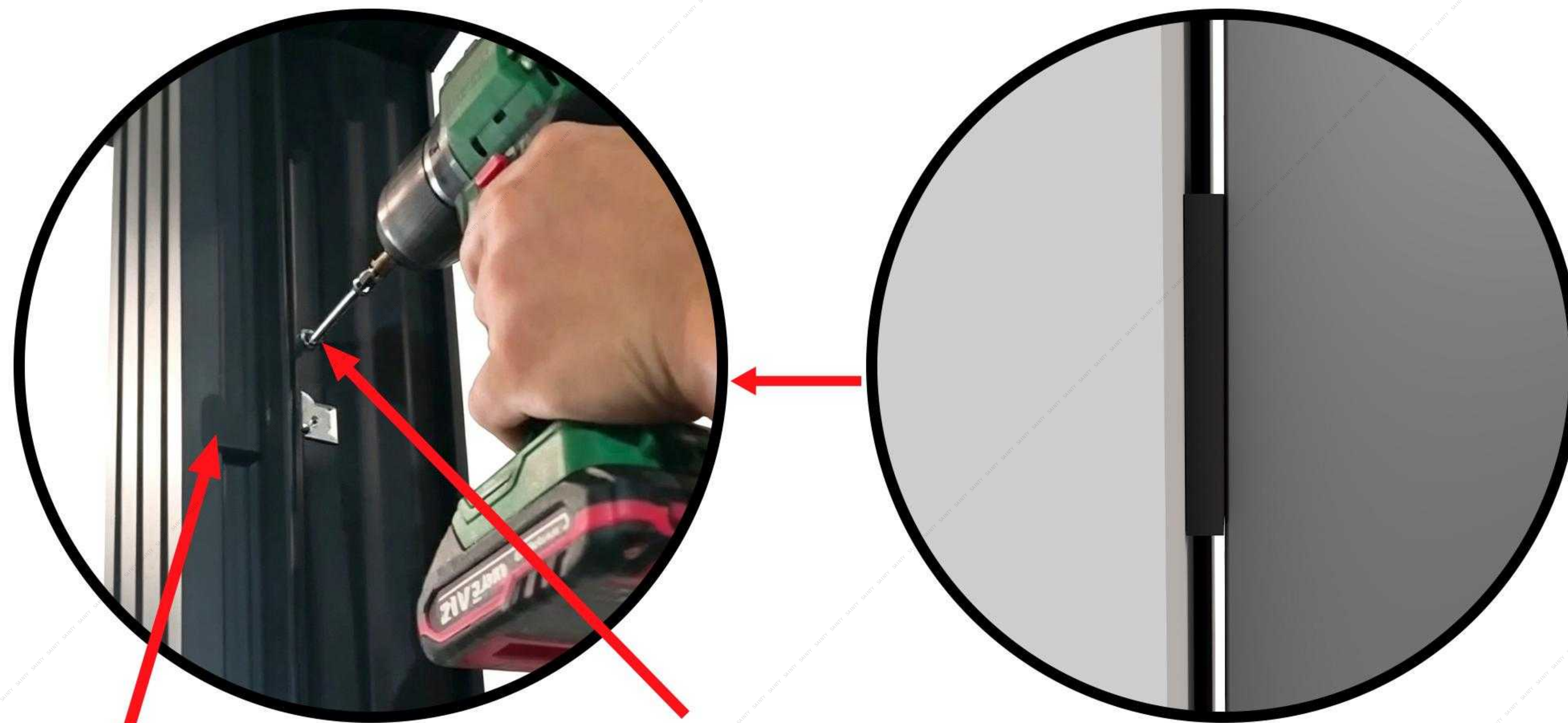
To install the first screw, reconfirm that the level is correct, then peel back the weatherstripping and drill a hole above the hinge first (follow the hole spacing: end spacing 100-120mm, intermediate spacing 400-600mm, and avoid drilling through the hinge). Insert shims into the gap between the frame and the wall (choose shim thickness based on site conditions, and place them on the upper side near the hole), then drive the screw while holding the shims. Initially, drive only one screw for positioning - do not drive more at this time.



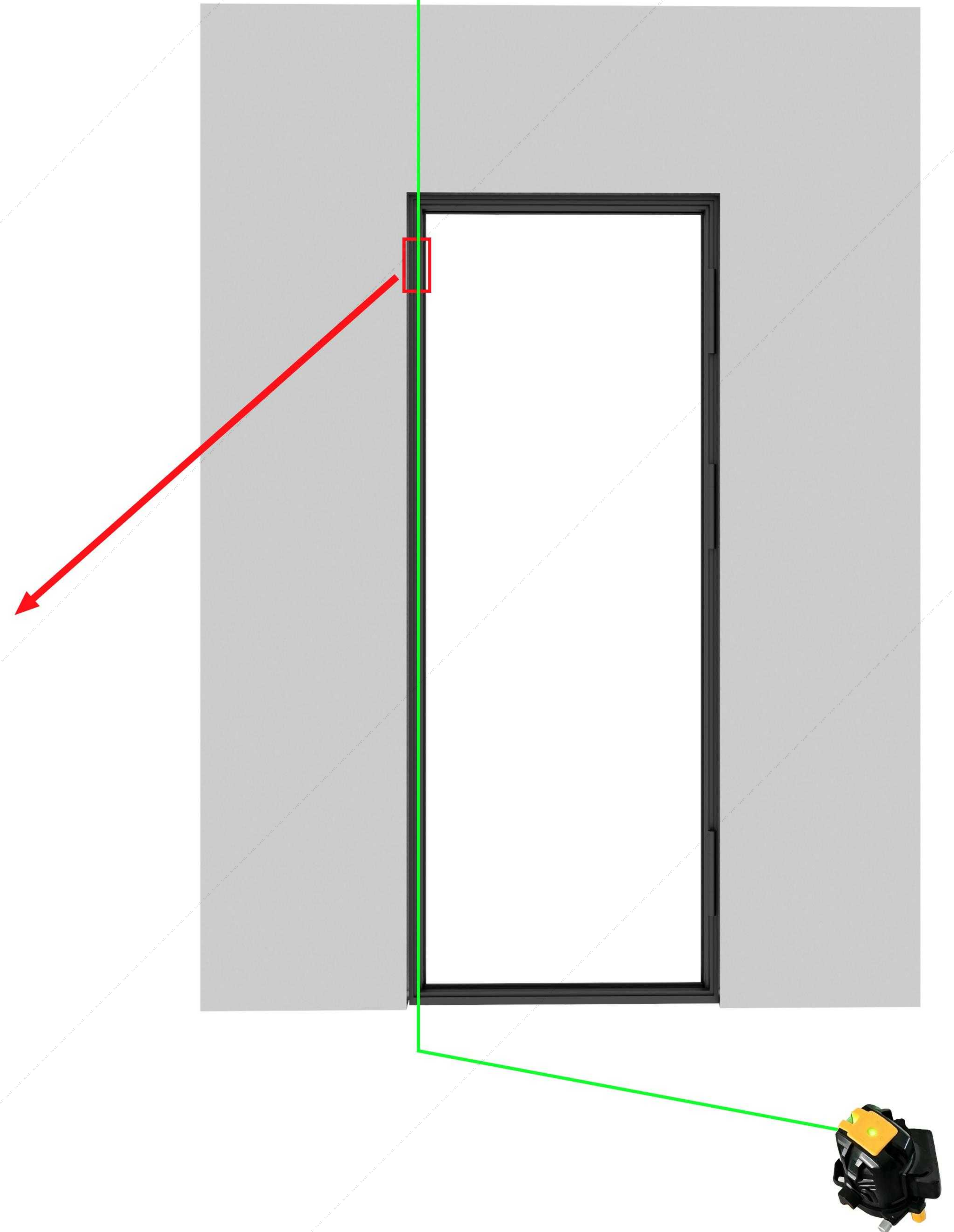
The actual photo shows shims placed near the screws (above them). The shims protruding outside the frame are for demonstration only; in actual installation, the shims should not be exposed outside the frame.

Outer Frame Fixing Screws (Positioning First)

Second screw installation: Reconfirm that the side frames are in a straight line as previously mentioned. Use a level diagonally across the frames to check alignment. If level and without tilt, drill holes according to the spacing mentioned earlier, and install a screw at the upper left corner (at the same height as the screw on the right side frame above the hinge). If there is a gap, insert shims as before, and drive only one screw for now - do not drive more at this time.

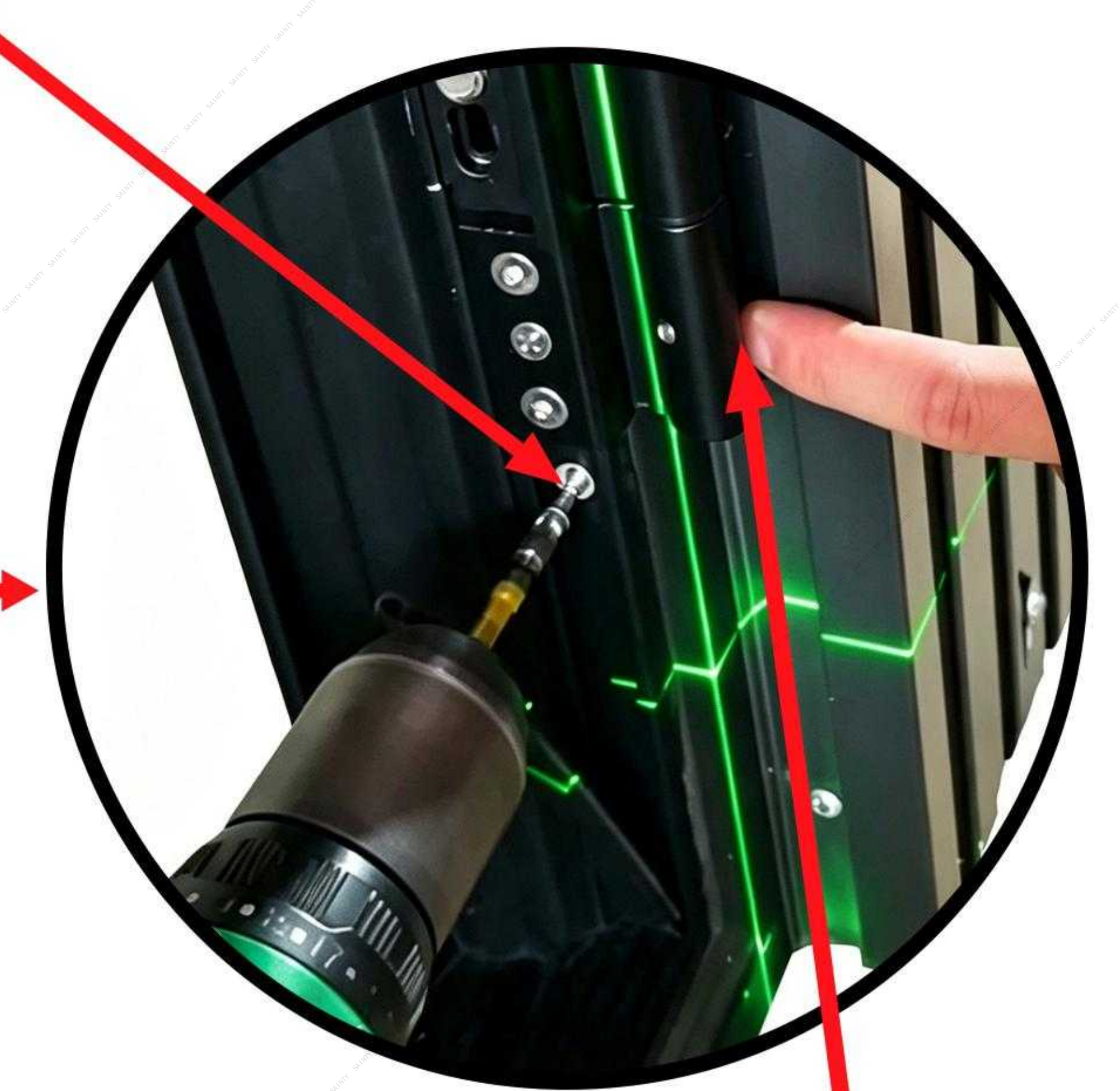
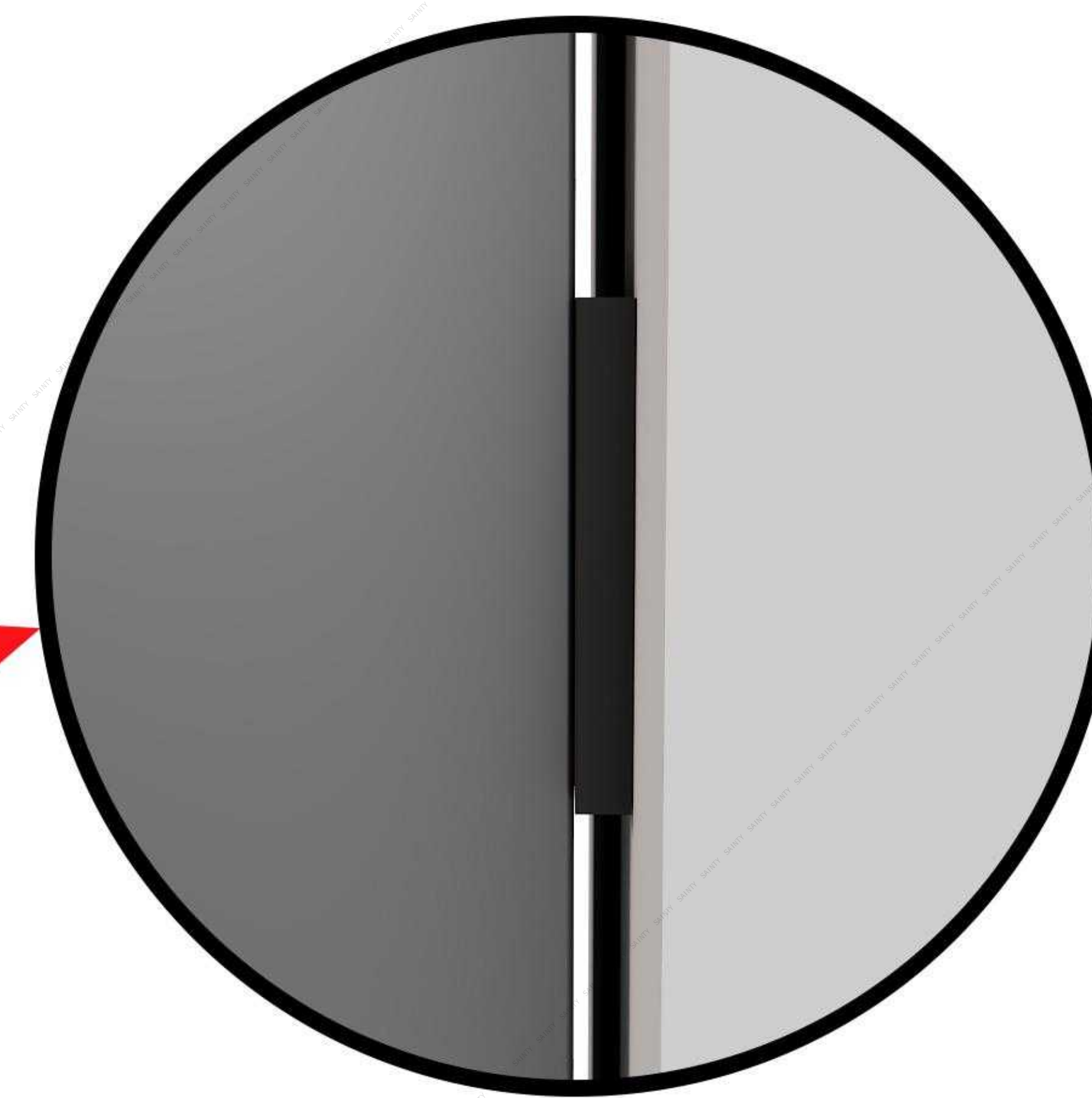
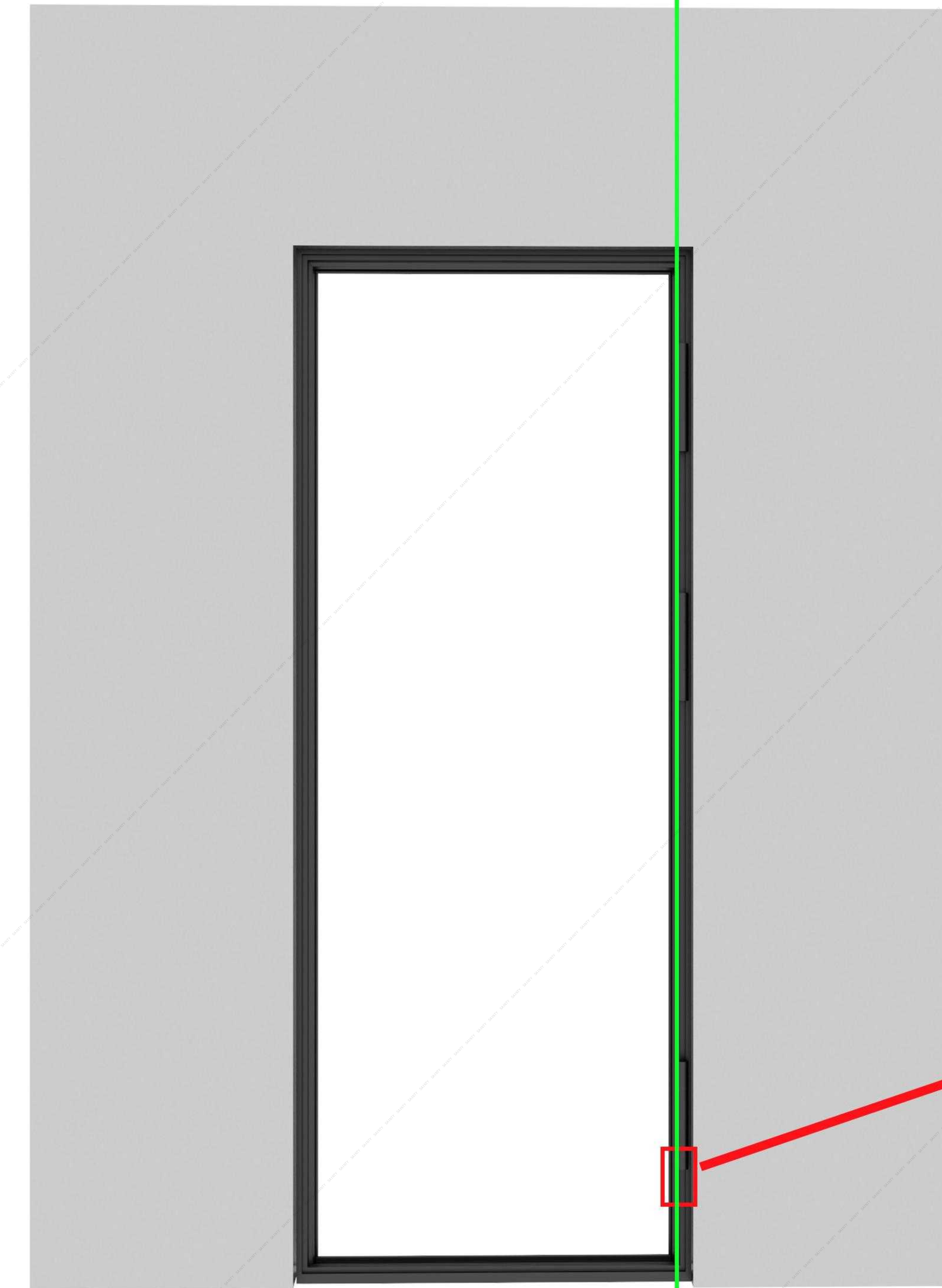


The actual photo shows shims placed near the screws (below them). The shims protruding outside the frame are shown for demonstration only; in actual installation, choose the proper shim thickness according to the gap location, and the shims should not be exposed outside the frame.



Outer Frame Fixing Screws (Positioning First)

To install the third screw, reconfirm that the side frames are in a straight line as previously mentioned. Use a level diagonally across the frames to check alignment. Once level and without tilt, install one screw at the lower right corner below the hinge. If there is a gap, insert shims into the gap between the frame and the wall (place shims above the hole locations), then drive the screw while placing the shims. Drive only one screw for now - do not drive more at this time.

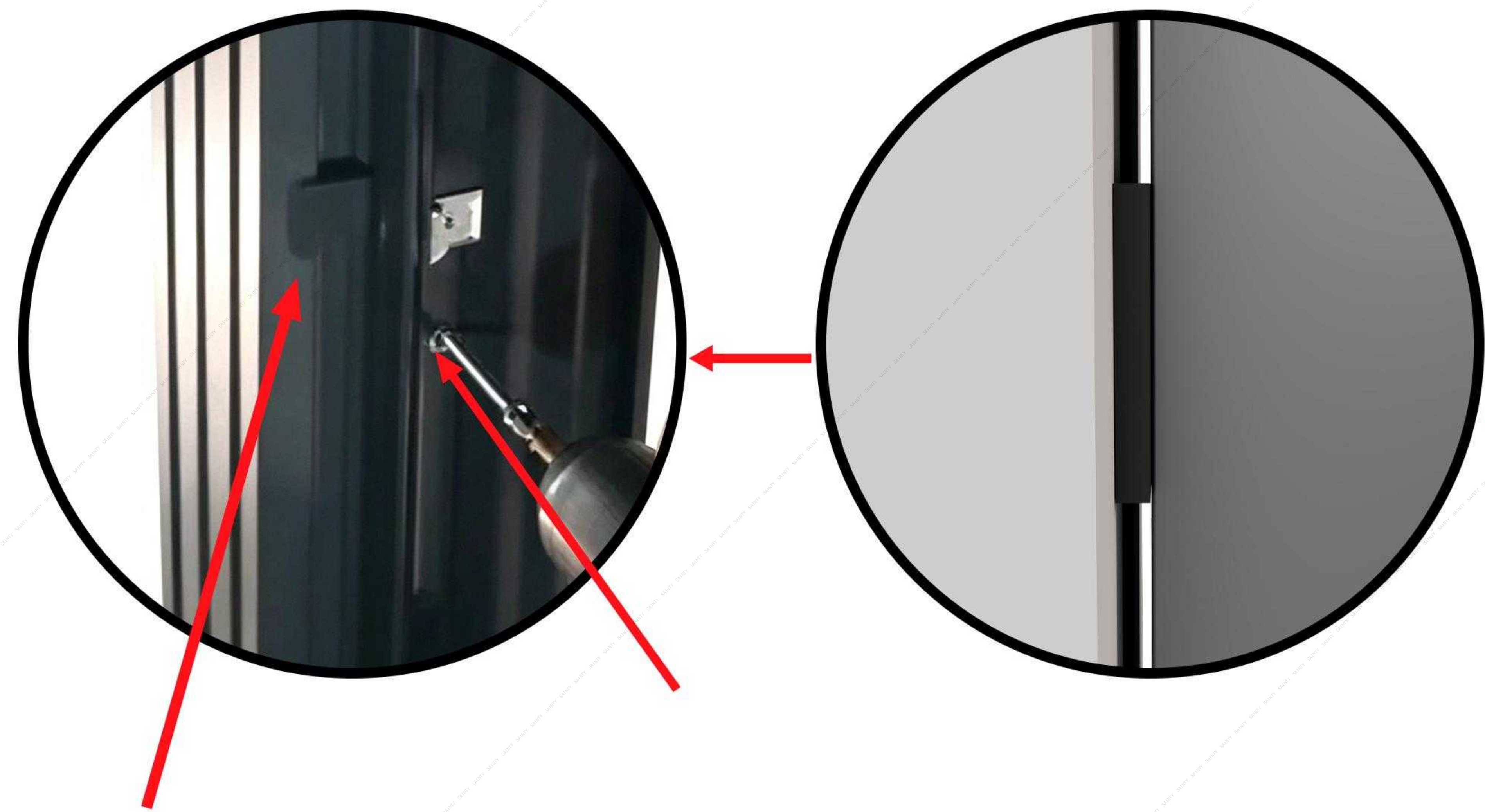


Place the shims roughly above the screws.

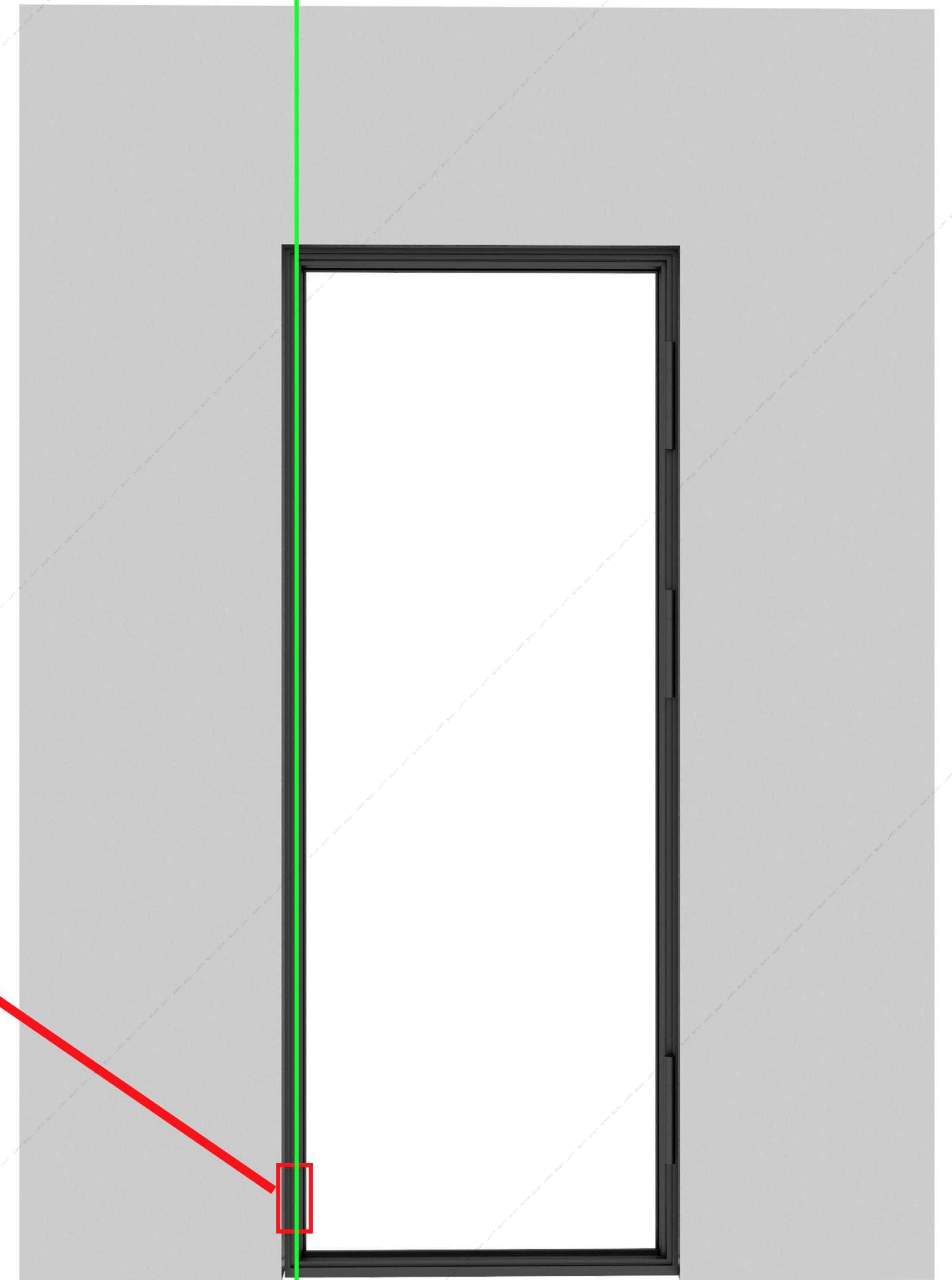


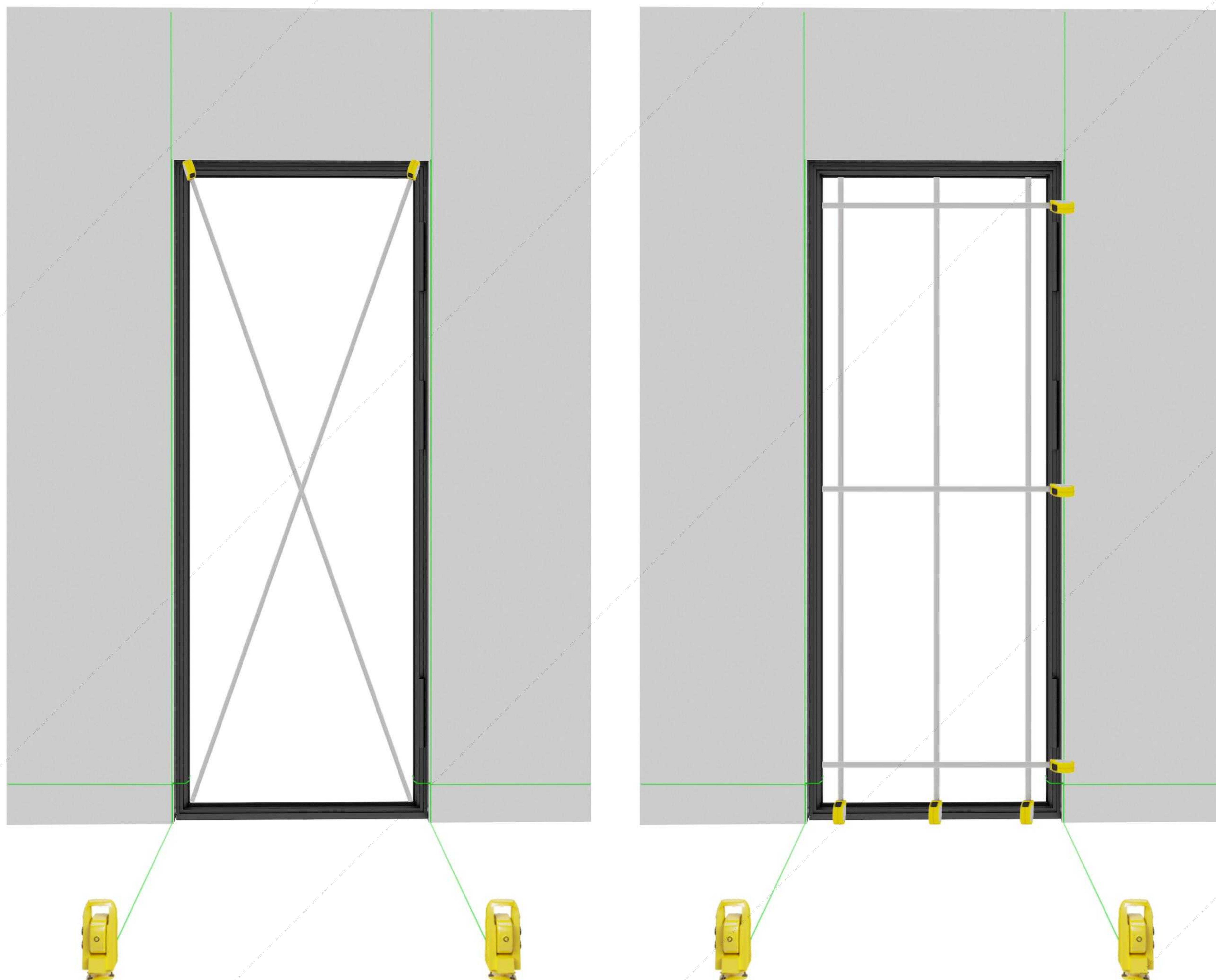
Outer Frame Fixing Screws (Positioning First)

To install the fourth screw, reconfirm that the side frames are in a straight line as previously mentioned. Use a level diagonally across the frames to check alignment. Once level and without tilt, install one screw at the lower left corner (at the same height as the screw on the right side frame above the hinge). If there is a gap, insert shims into the gap between the frame and the wall (place shims above the hole locations), then drive the screw while placing the shims. Drive only one screw for now - do not drive more at this time.



The actual photo shows shims placed near the screws (above them). The shims protruding outside the frame are for demonstration only; in actual installation, the shims must not be left exposed outside the frame.



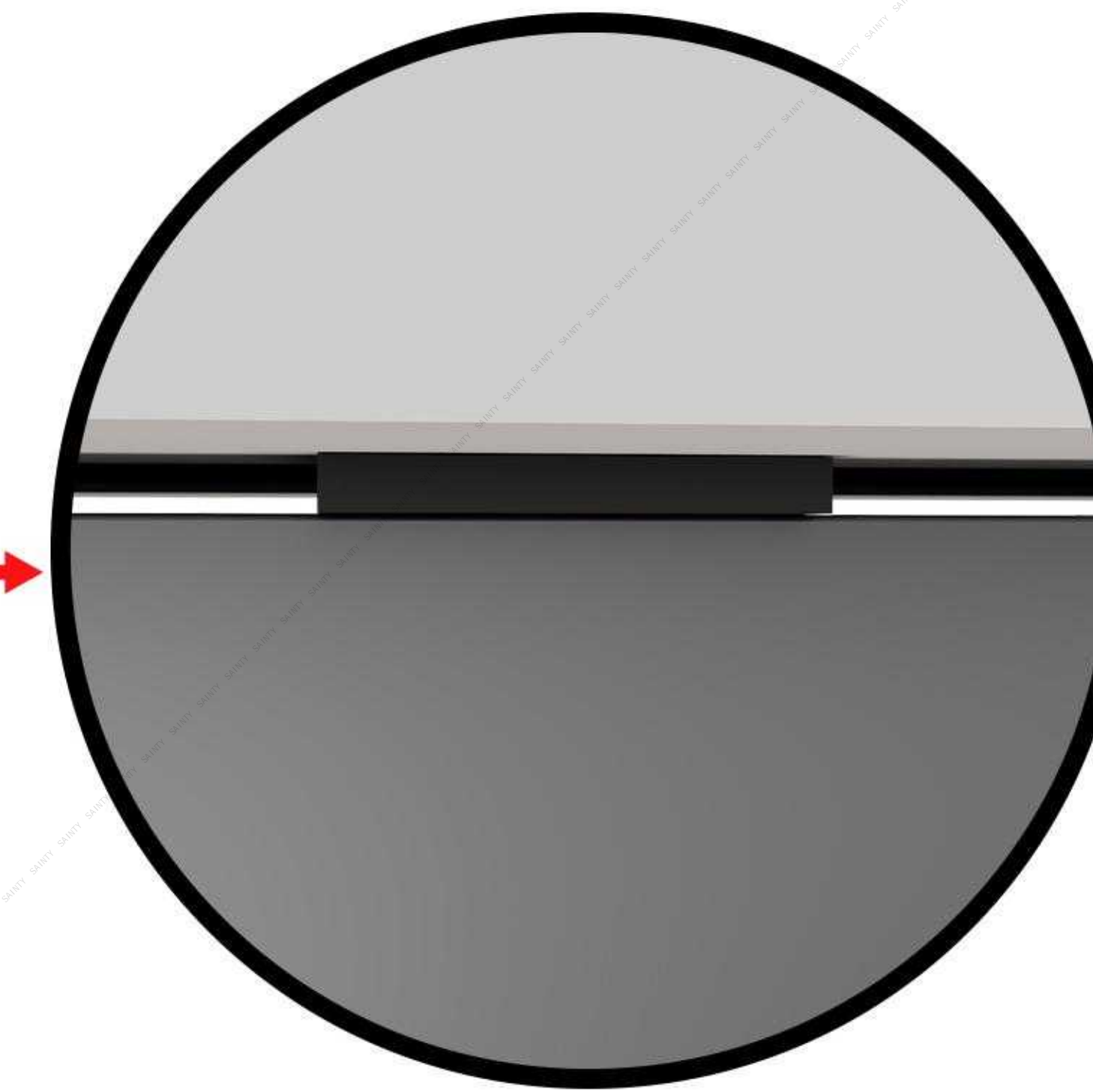
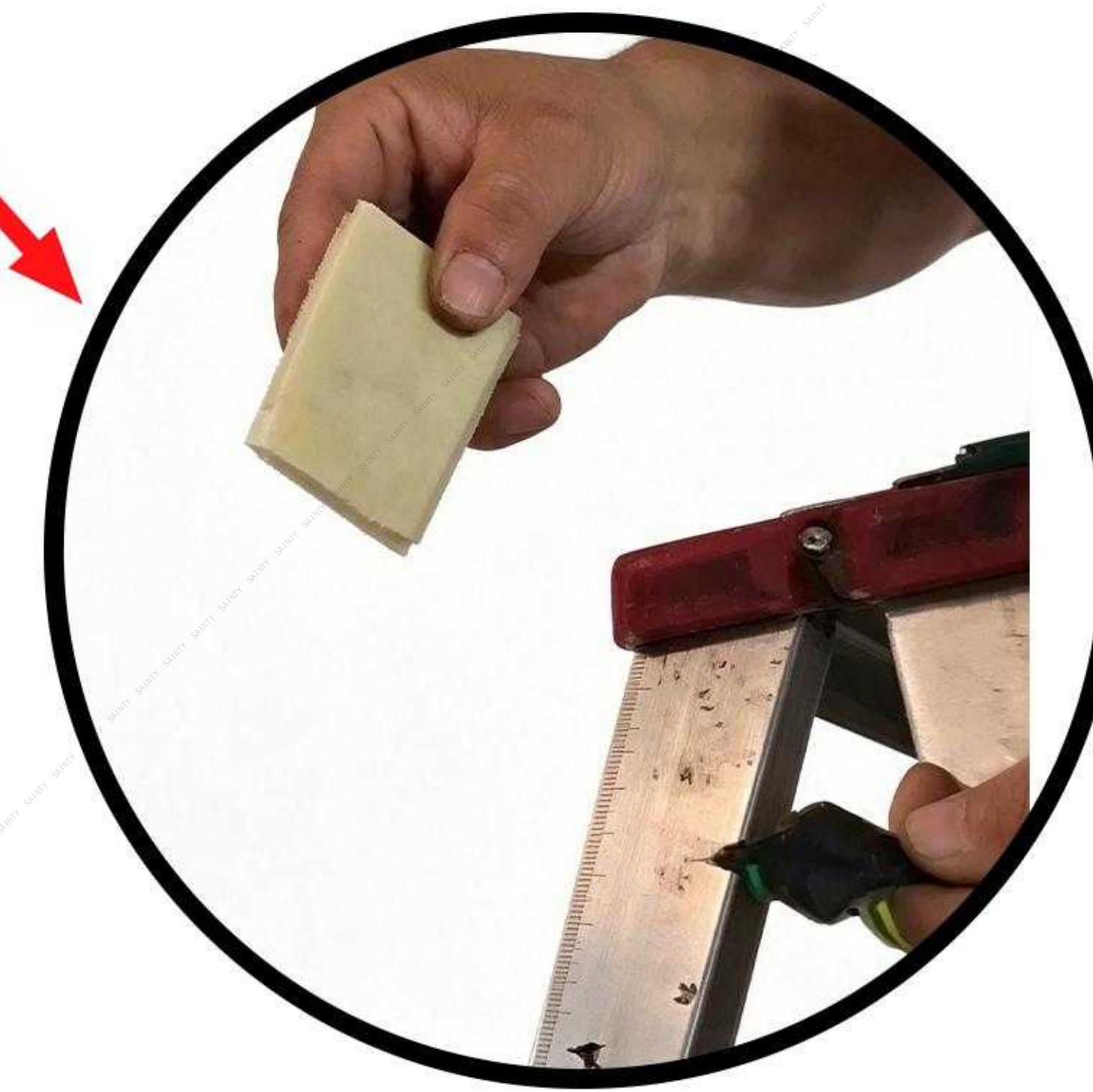
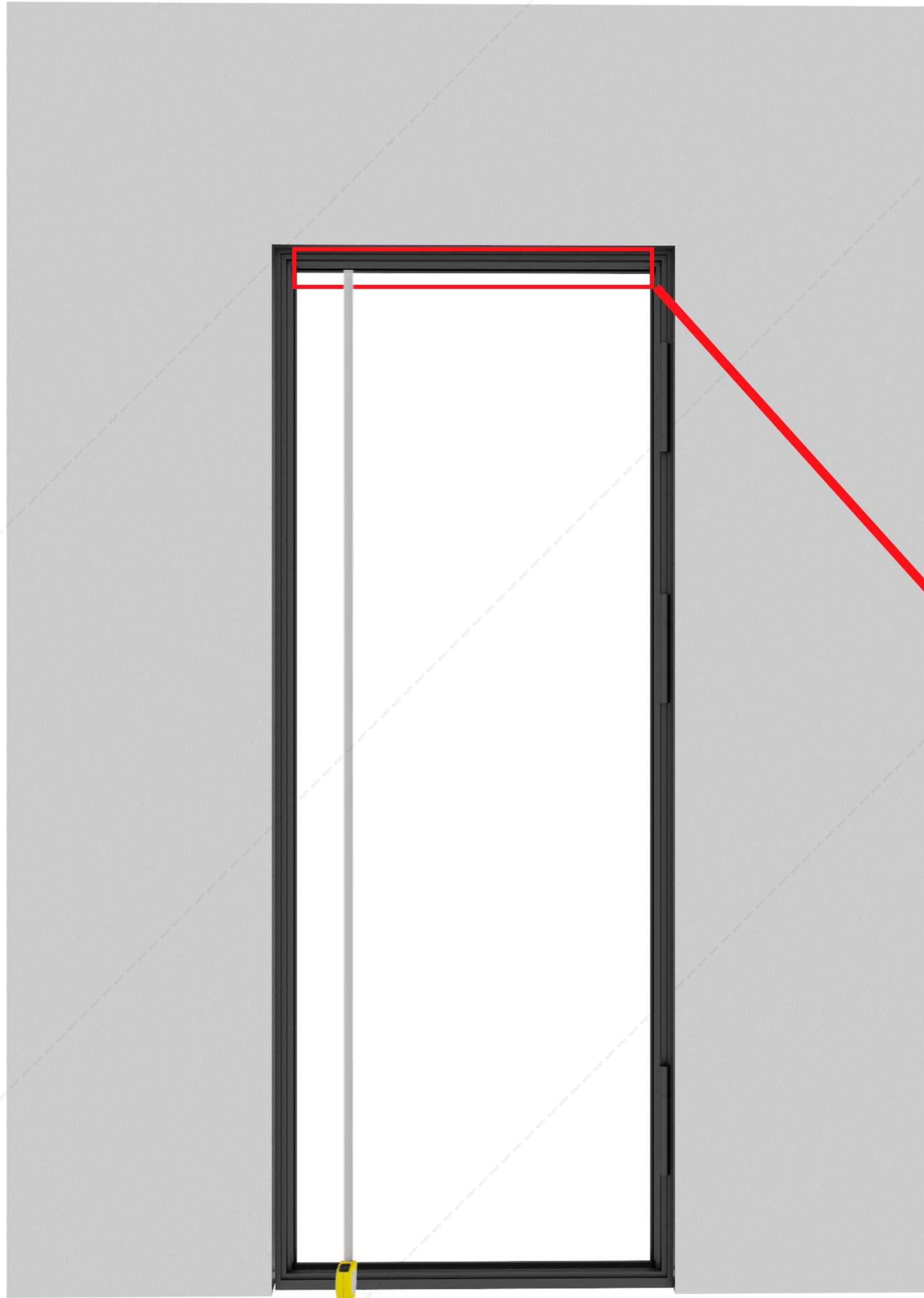


Re-checking the Door Frame Level

After the four screws are installed, use a level again to re-check that the door frame is level. Separately re-measure the inner width, inner height, and diagonal distances of the outer frame to verify that they are consistent. If no issues are found, proceed to install the screws on the top frame.

Top Frame Fixing Screws

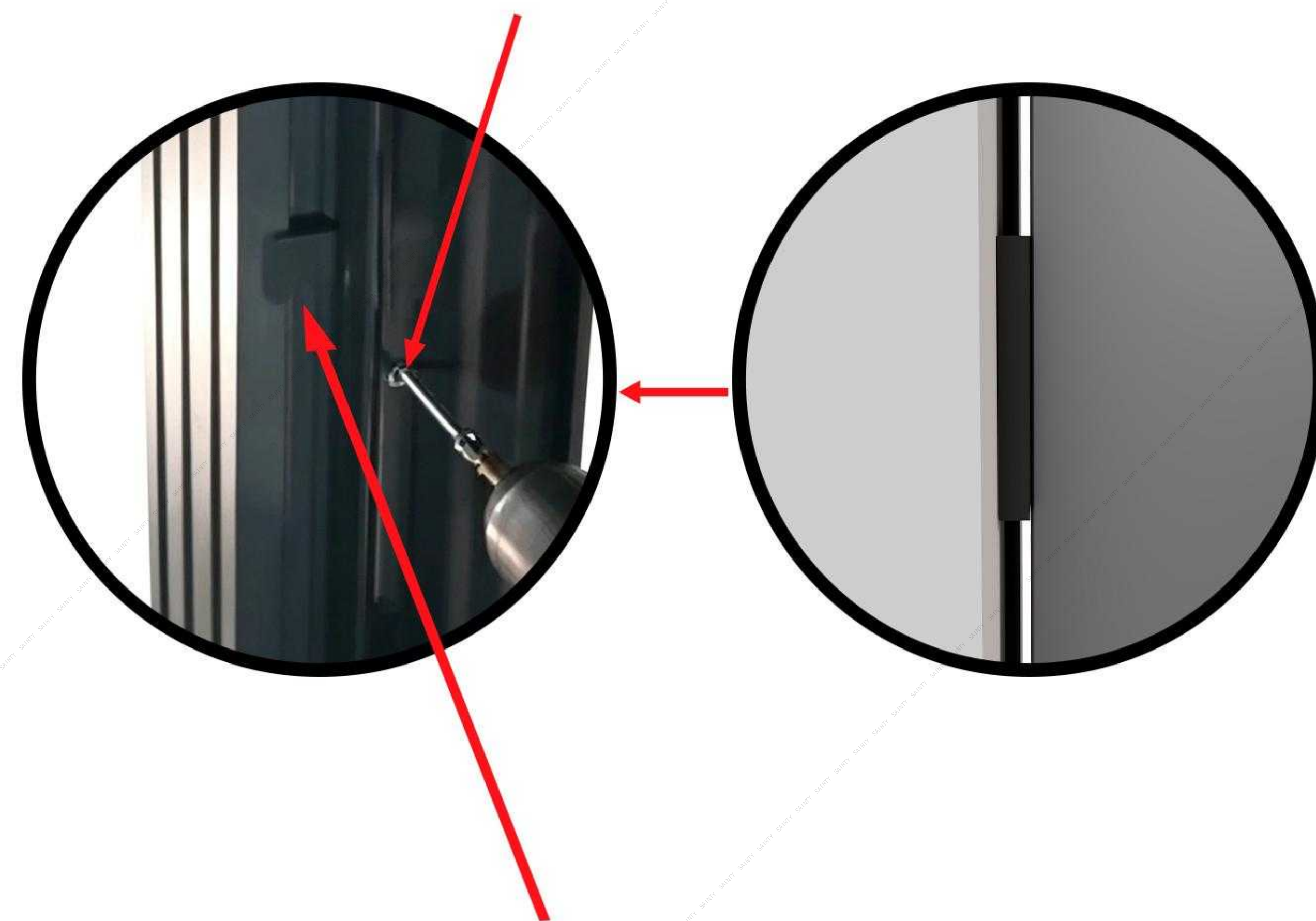
The holes on the top frame are pre-drilled. For each screw you install, measure the inner height of the door frame - first at the left and right sides, then at the center. Make sure that the height at every hole position remains the same during installation. The frame may be raised by 0.2-0.5 mm, but it must not be lowered. Choose the thickness and number of shims according to site conditions; if there are gaps, place shims near the hole positions while driving the screws.



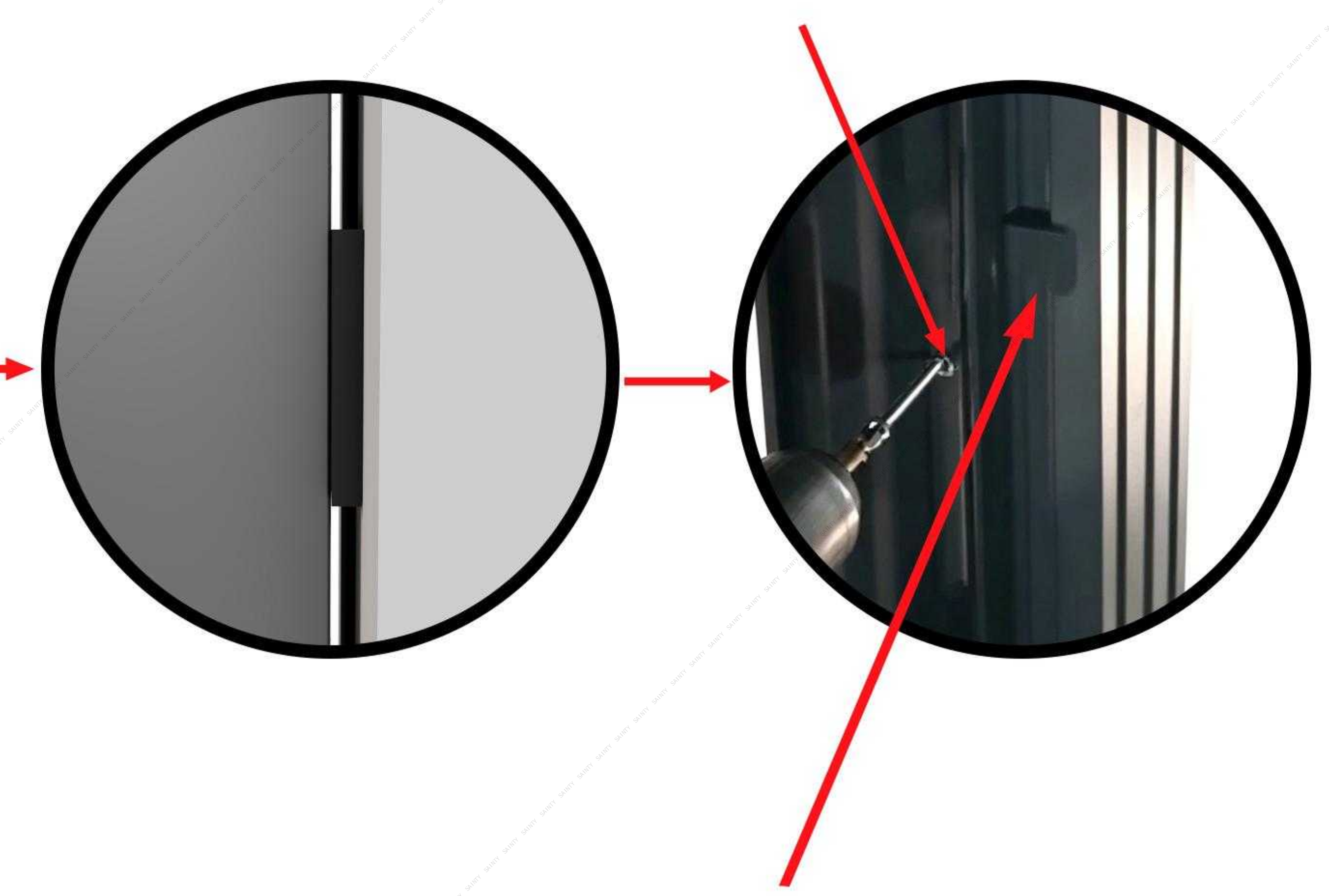
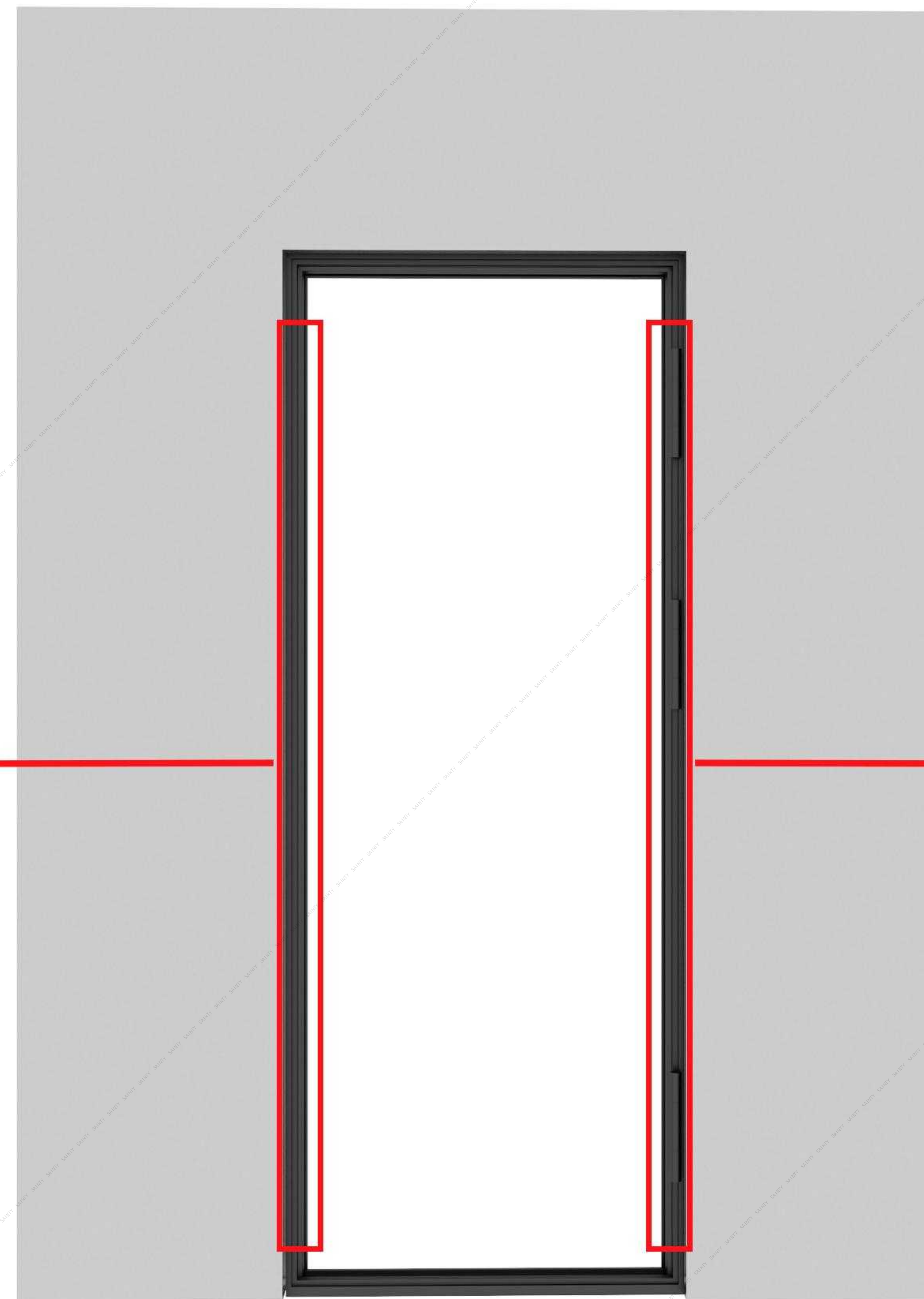
Choose the quantity and thickness of shims according to site conditions.

Fixing the Remaining Screws on the Left and Right Side Frames

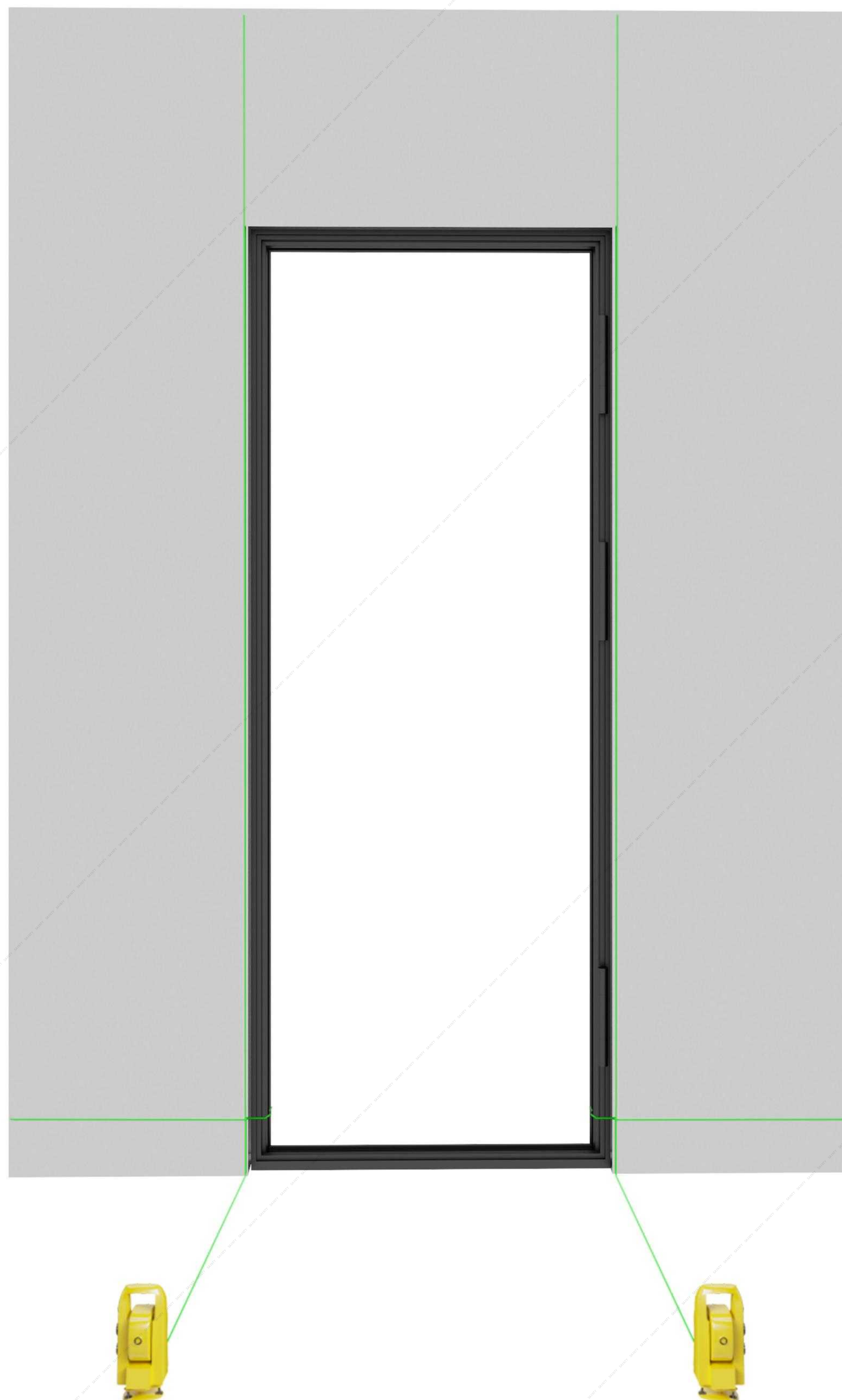
Reconfirm that the side frames are in a straight line as previously mentioned. Depending on site conditions, if there are gaps, insert shims into the gap between the frame and the wall (place shims above the hole locations) and then drive the screws. Install the remaining screws on both side frames following this procedure.



The actual photo shows shims placed near the screws (above them). The shims protruding outside the frame are for demonstration only; in actual installation, the shims must not be left exposed outside the frame.

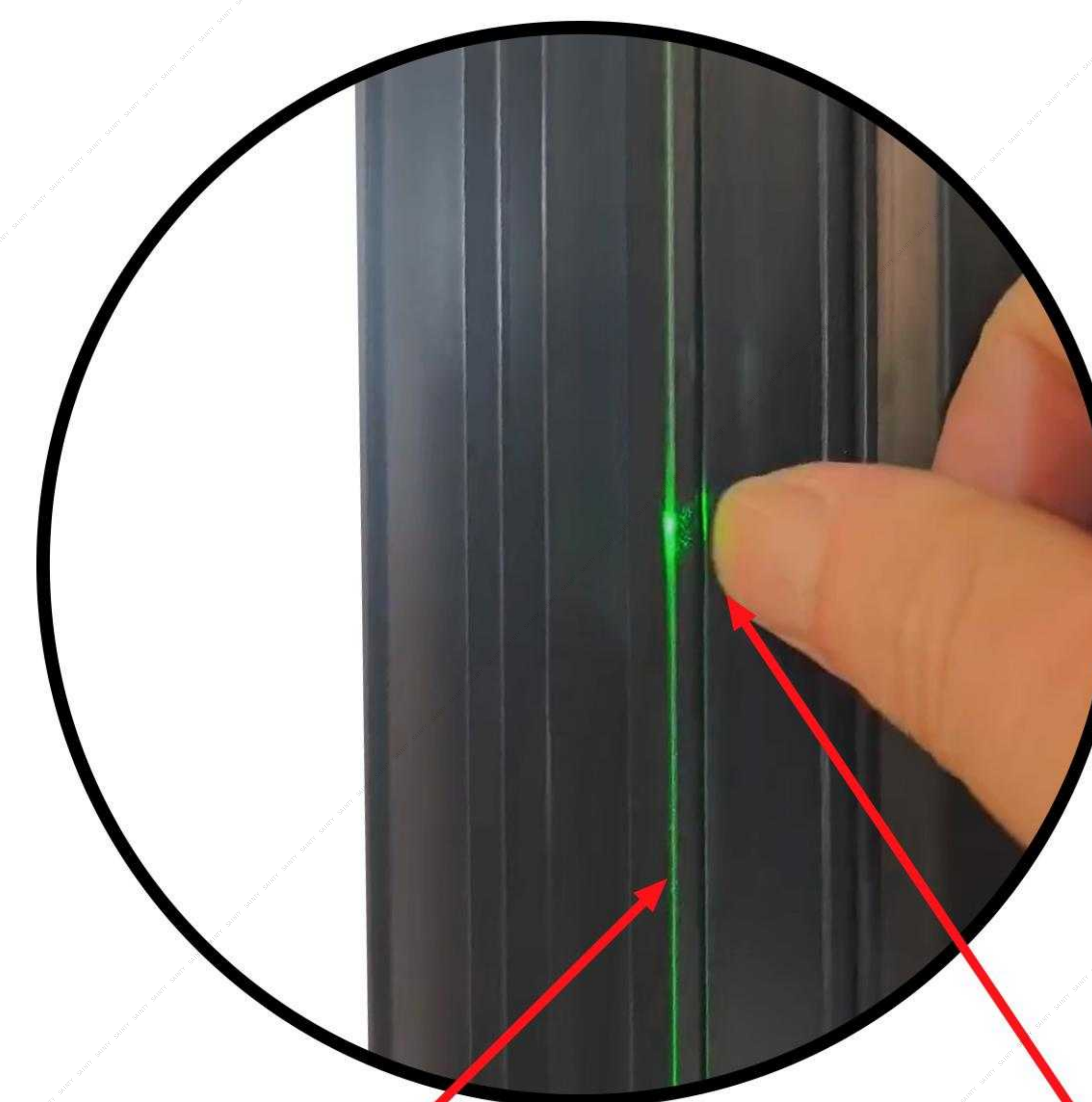


The actual photo shows shims placed near the screws (above them). The shims protruding outside the frame are for demonstration only; in actual installation, the shims must not be left exposed outside the frame.



Rechecking Level After Installing the Remaining Frame Screws

After all frame screws are installed, use a level to check whether the frame is in a straight line. If the level is correct, put the weatherstripping back in place and press it down firmly.



Verify that it is level and in line.

Return the weatherstripping to its original position and press it down.

Installing the Panel

First, place the panel on the wood, near the edge of the door frame hinge, and have someone hold it steady. Align the panel with the door frame hinge at the same height; if it is too low, place some wooden blocks underneath the panel (Figure 1) until it aligns with the hinge (Figure 2), which will make installation easier.

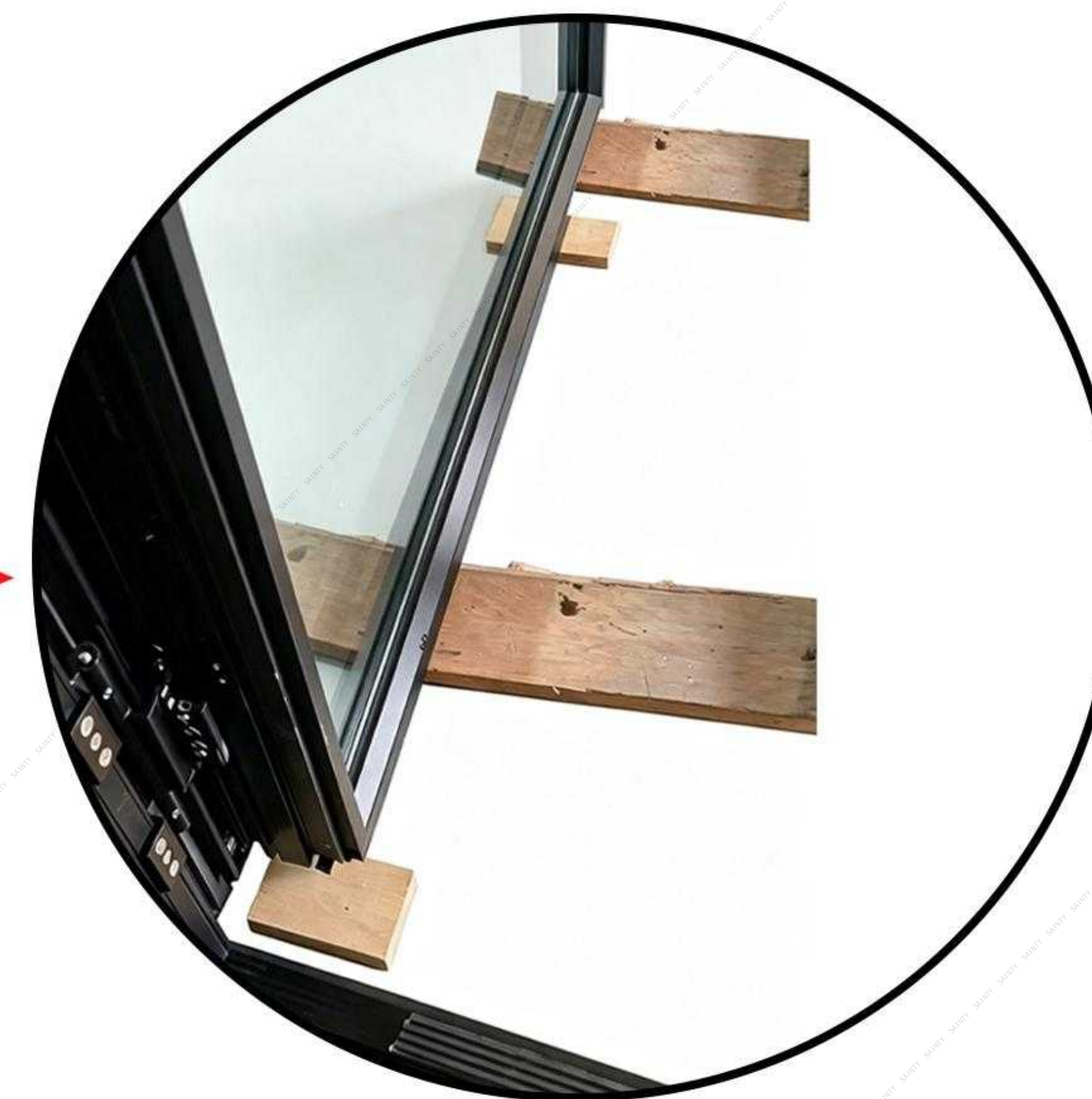
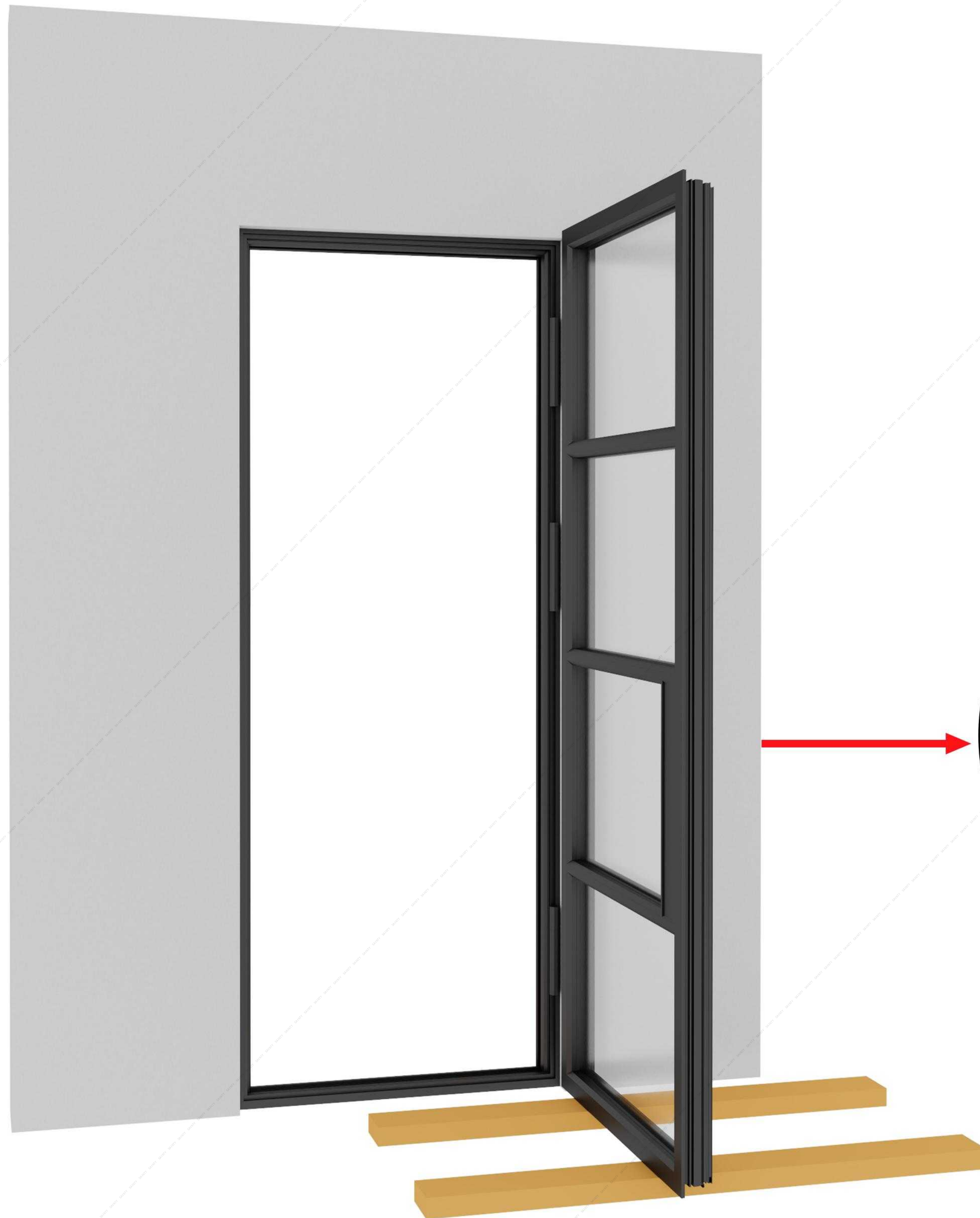


Figure 1

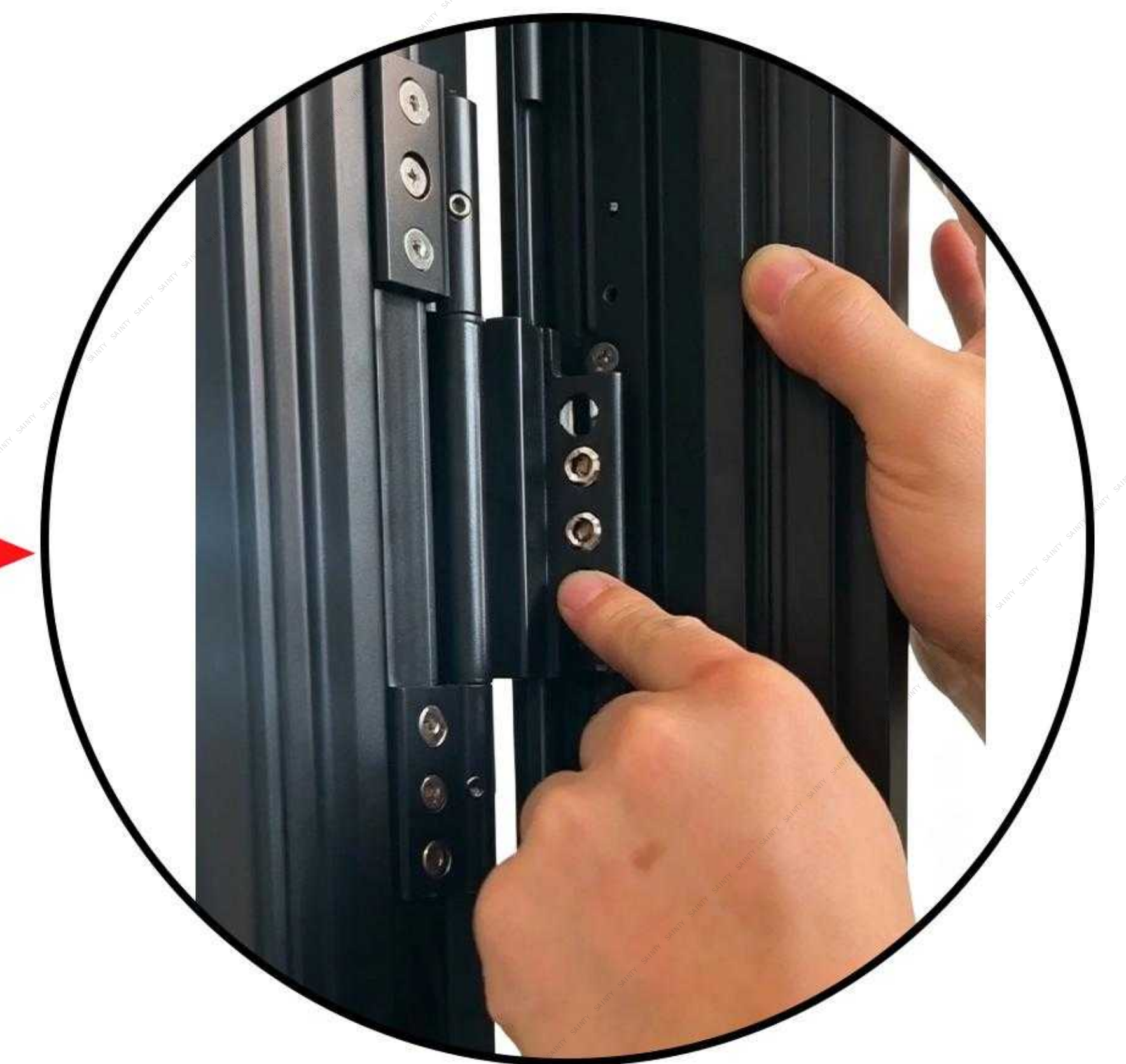


Figure 2

Installing the Hinges

After the panel and the door frame hinges are aligned, install the hinges. Have someone hold the panel, and first install the screws on the middle hinge, then install the screws on the upper and lower hinges in sequence.

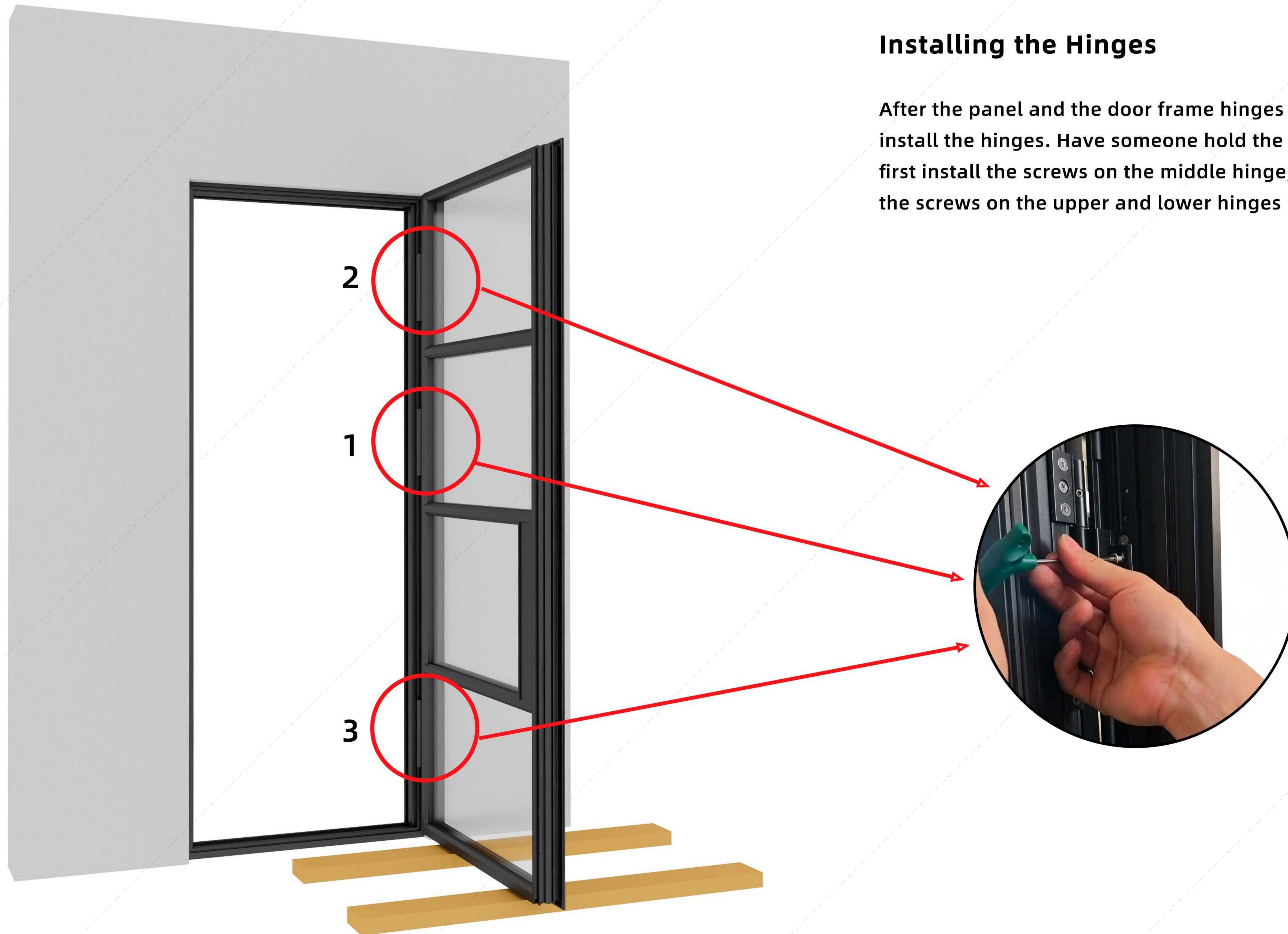




Figure 1

Installing the Indoor and Outdoor Door Handles

The lock accessories include the cylinder, square spindle, machine screws, indoor and outdoor handles, and keys (Figure 1). Distinguish between the indoor and outdoor handles - the indoor handle has a hole (Figure 2).



Figure 2



Figure 1



Figure 2



Figure 3



Figure 4

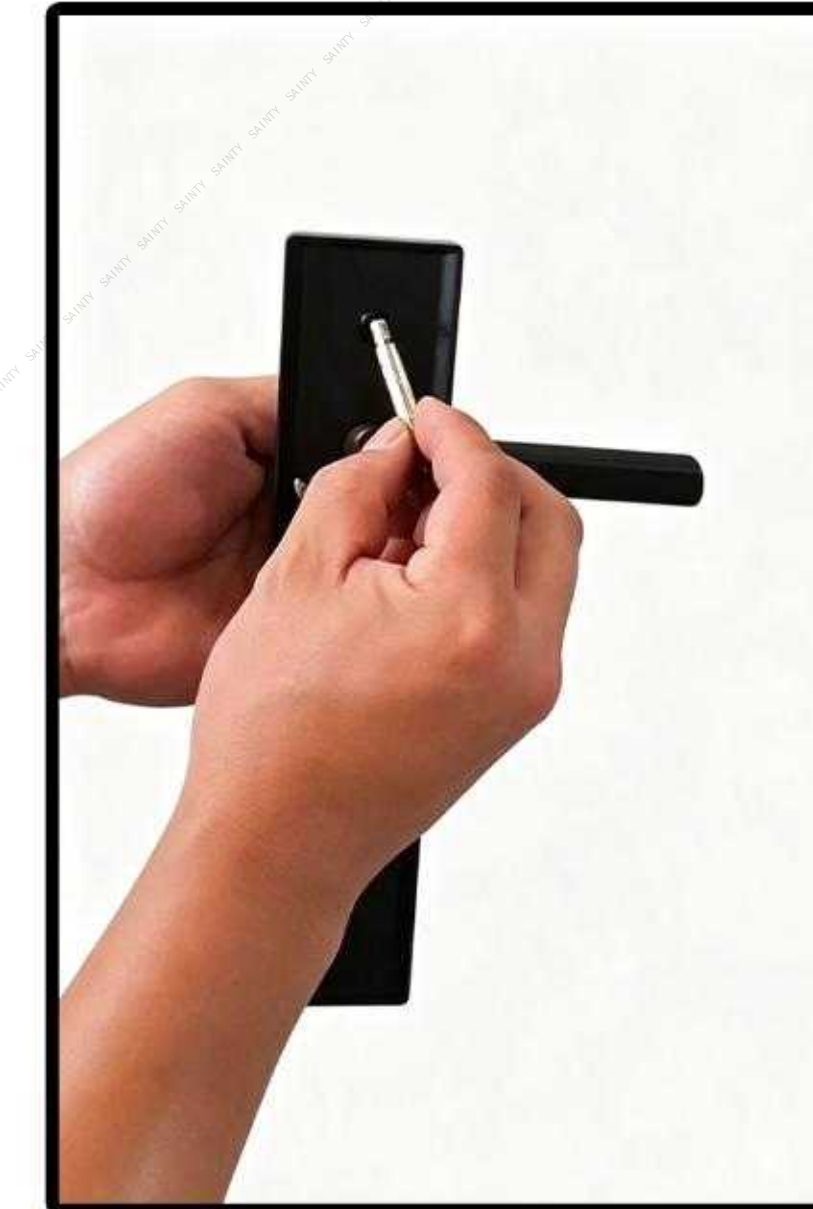


Figure 5



Figure 6



Figure 7

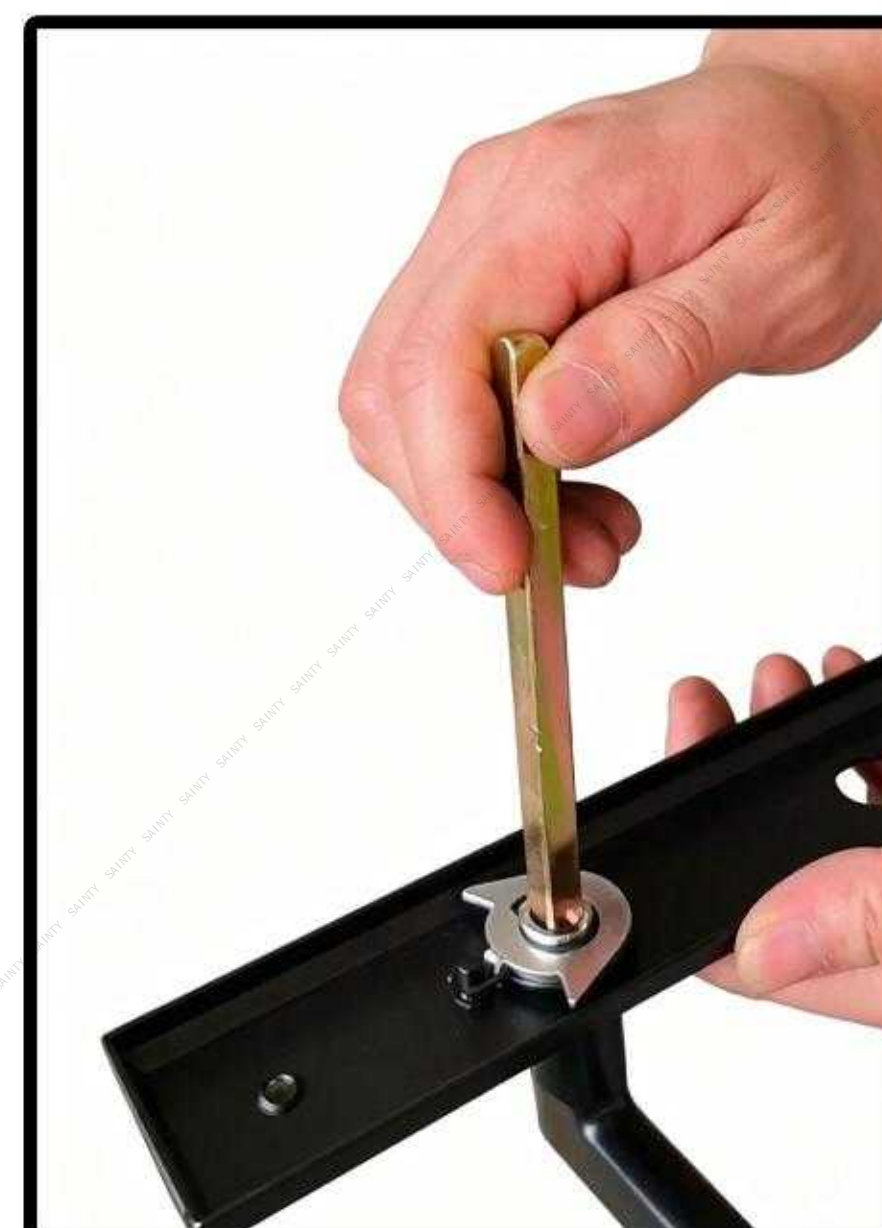


Figure 8



Figure 9



Figure 10



Figure 11



Figure 12



Figure 13



Figure 14



Figure 15



Figure 16



Figure 17



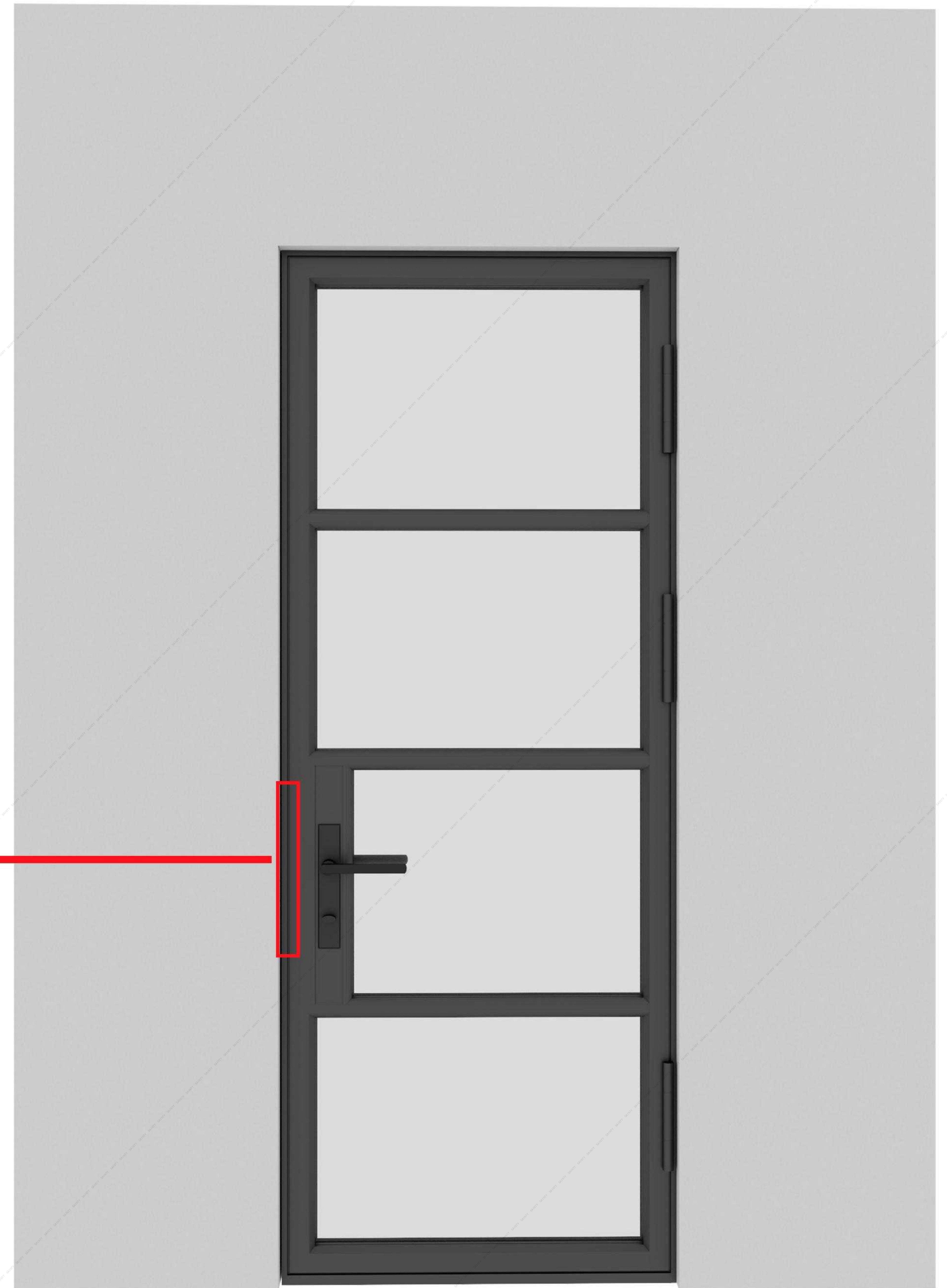
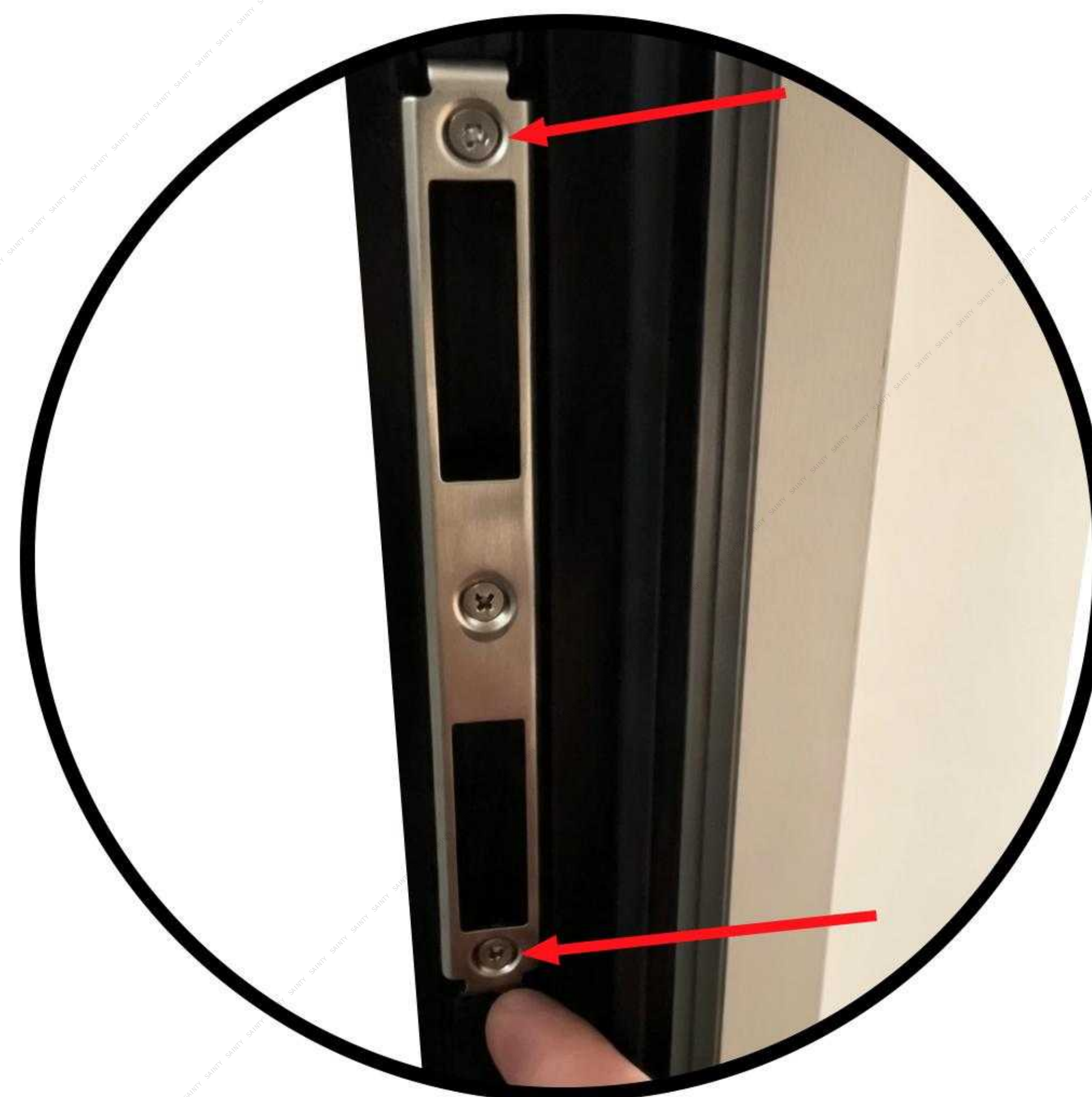
Figure 18

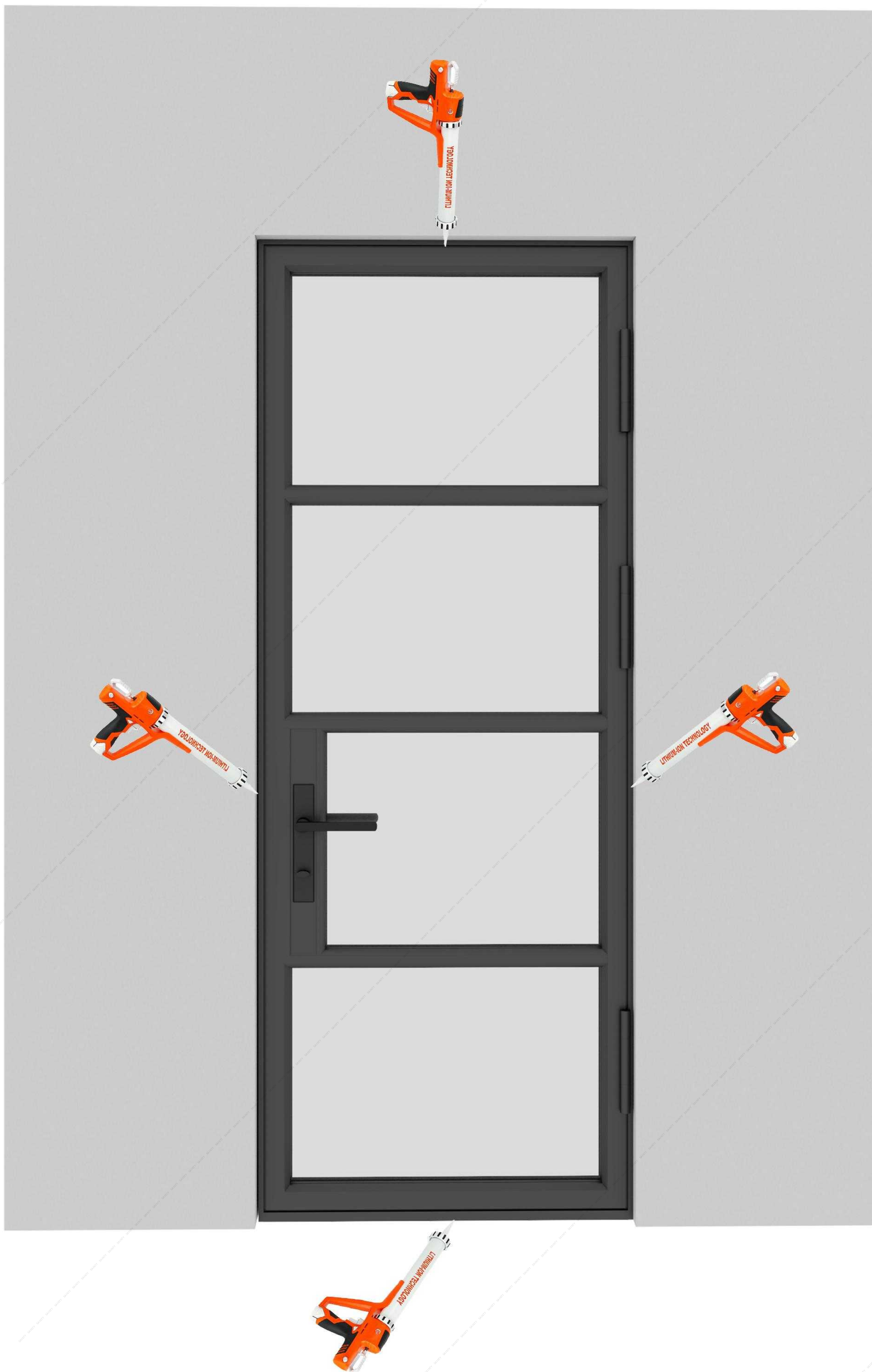
Installing the Indoor and Outdoor Door Handles

First, the handles are received in a vertical position (Figure 1). They need to be turned horizontally before installation. Remove the bottom screw (Figure 2), rotate the handle to the horizontal position (Figure 3), then reinstall the screw (Figure 4). Insert the machine screws (Figures 5 and 6), and attach this outdoor handle assembly into the pre-drilled hole on the outdoor panel (Figure 7). Insert the square spindle into the indoor handle (Figure 8), then insert the indoor handle into the hole on the indoor panel (Figure 9). Insert the lock cylinder (Figure 10), and turn the knob (Figure 11) to ensure it catches properly. Then insert the upper and lower machine screws (Figures 12 and 13), tighten them with a tool but do not fully tighten yet. Insert the side screw (Figure 14), then tighten the side screw (Figure 15). After that, fully tighten the indoor machine screws (Figure 16). Insert the key into the outdoor handle (Figure 17) - do not lose it, otherwise the door will not work. Finally, test the handle operation to confirm it opens and closes properly (Figure 18).

Adjusting and Securing the Multi-point Lock Strike Plate for Outward Opening

If the door does not open smoothly, adjust this component vertically.
We only installed the middle screw before shipping; after confirming that the door opens correctly, secure the upper and lower screws as well.





Applying Sealant to the Door Frame

After all door checks are completed and confirmed to be correct, apply sealant to the gaps between the frame (all around) and the wall, on both the interior and exterior sides. Wait until the sealant is completely dry before opening the door, and do not touch the door before it dries.