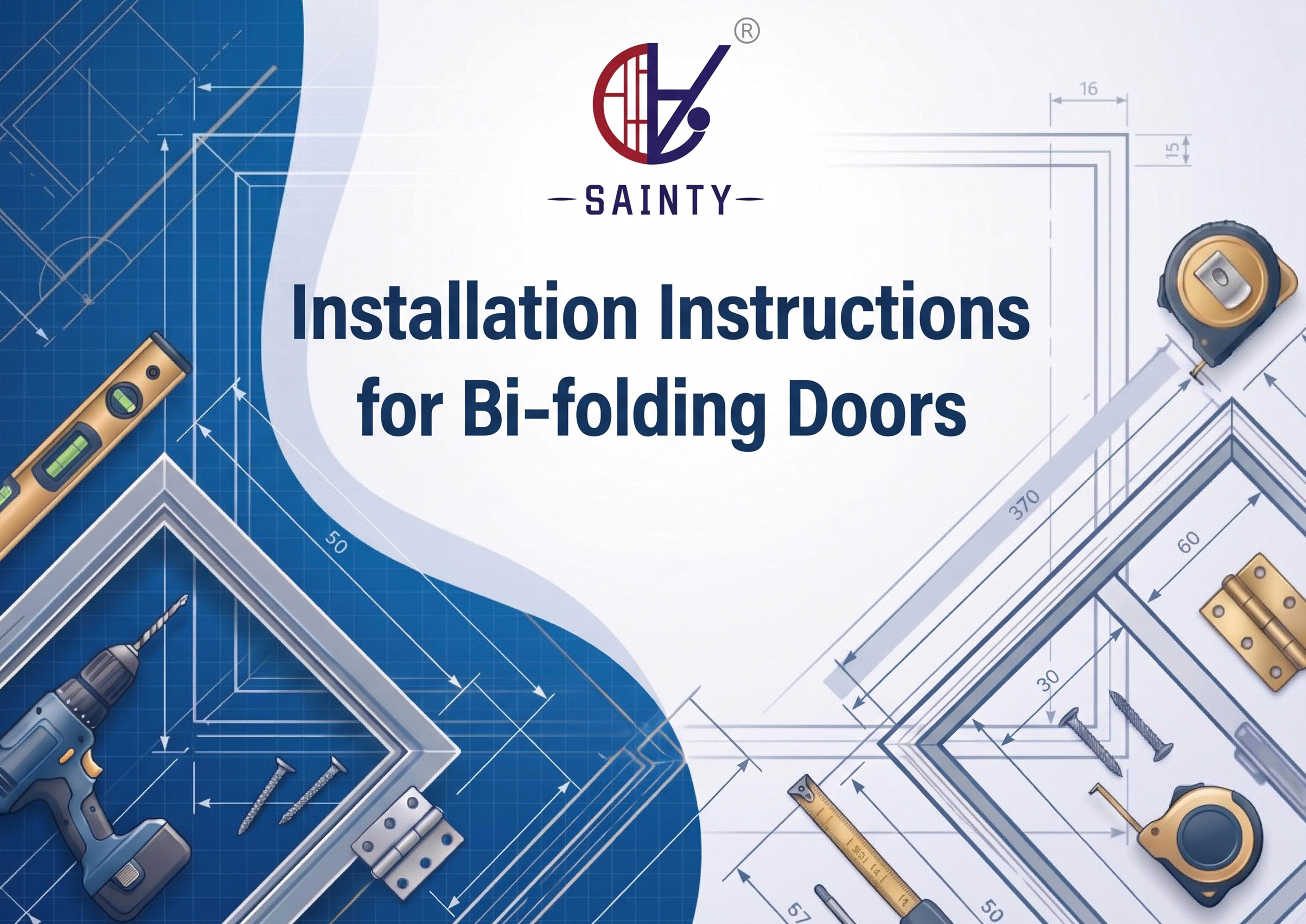
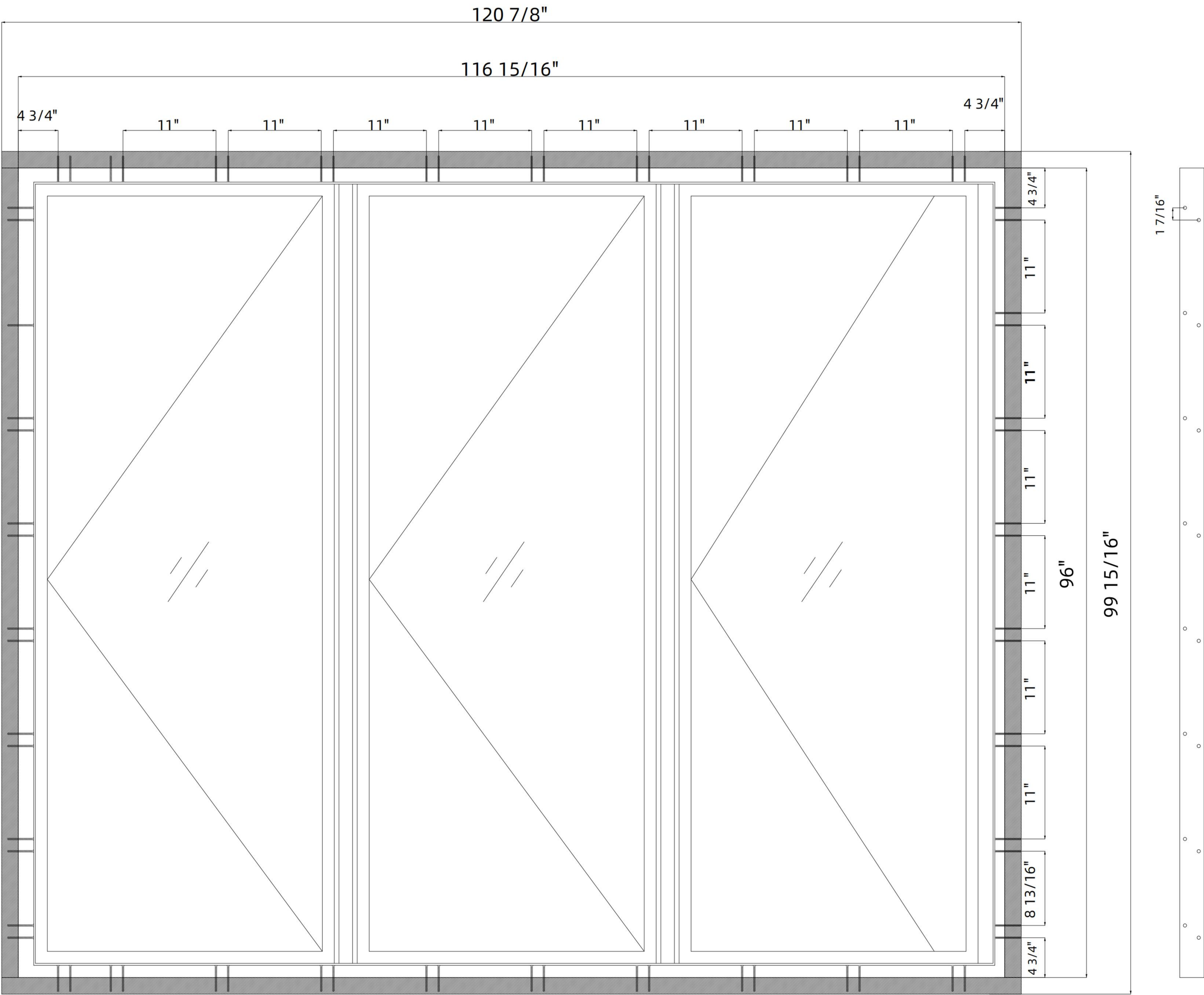




Installation Instructions for Bi-folding Doors



MOUNTING HOLE SPACING DIMENSIONS



This hole layout drawing applies only to hurricane zones. For non-hurricane zones, the spacing from the edges (top, bottom, left, and right) to the first hole shall be within 100-120 mm, and the spacing between adjacent holes shall be within 400-600 mm.

- Precautions:
- 1.All views are external views, the solid line represents the outward opening, the dashed line represents the inward opening, and the side where the two lines intersect is the hinge installation side.
 - 2.The dimensions on the drawings cannot be used as the basis for construction, and the data from repeated measurements on site should be compared with the annotations in the drawings for construction;
 - 3.On-site construction personnel should check the dimensions shown in the drawings on site, and notify the designer in time if any contradictions are found;
 - 4.This drawing can only be used after being approved by relevant departments;
 - 5.The copyright of this drawing belongs to our company, without written permission, no copying or misappropriation is allowed;
 - 6.In this drawing, except for the elevation marked in meters, all other marked dimensions are in millimeters
 - 7.The final interpretation right of this drawing belongs to our company.

DEORATION DESIGNING:



TAIXING SAINTY INDUTRY CO.,LTD.
ADDRESS: ST Aluminum, Baogou Town Industry ,
Tengzhou City Zaozhuang 277000, Shandong
Cell: +86 150 5290 5768 (Vhatsapp)
www.aluminum-window.com
Email:info@staluminum.com

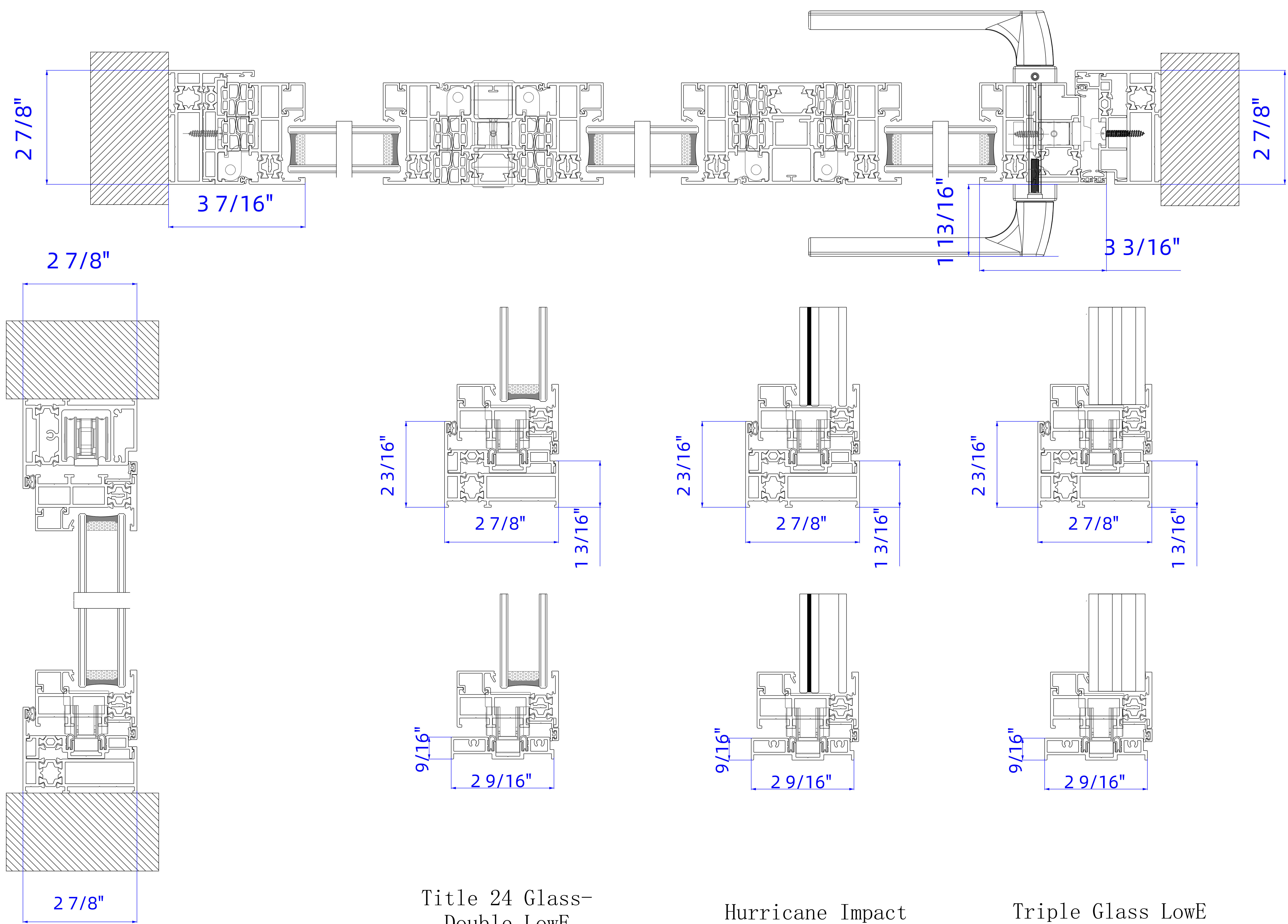
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Project:

Drawing For:
Design For Customr Approval

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DESIGNED		
DESIGNED		
Drawing No.	block:AWN2025.7	
Scale	block:1:1	
Map	A7	
Date		
Stage	Design	
CUSTOMER	2026/05/15	
OWNER		
MARK		

DOOR LEAF AND THRESHOLD DIMENSIONS



Title 24 Glass-
Double LowE
Standard Glass

Hurricane Impact
Soundproof Glass

Triple Glass LowE
Upgrade Glass

- Precautions:
- 1.All views are external views, the solid line represents the outward opening, the dashed line represents the inward opening, and the side where the two lines intersect is the hinge installation side.
 - 2.The dimensions on the drawings cannot be used as the basis for construction, and the data from repeated measurements on site should be compared with the annotations in the drawings for construction;
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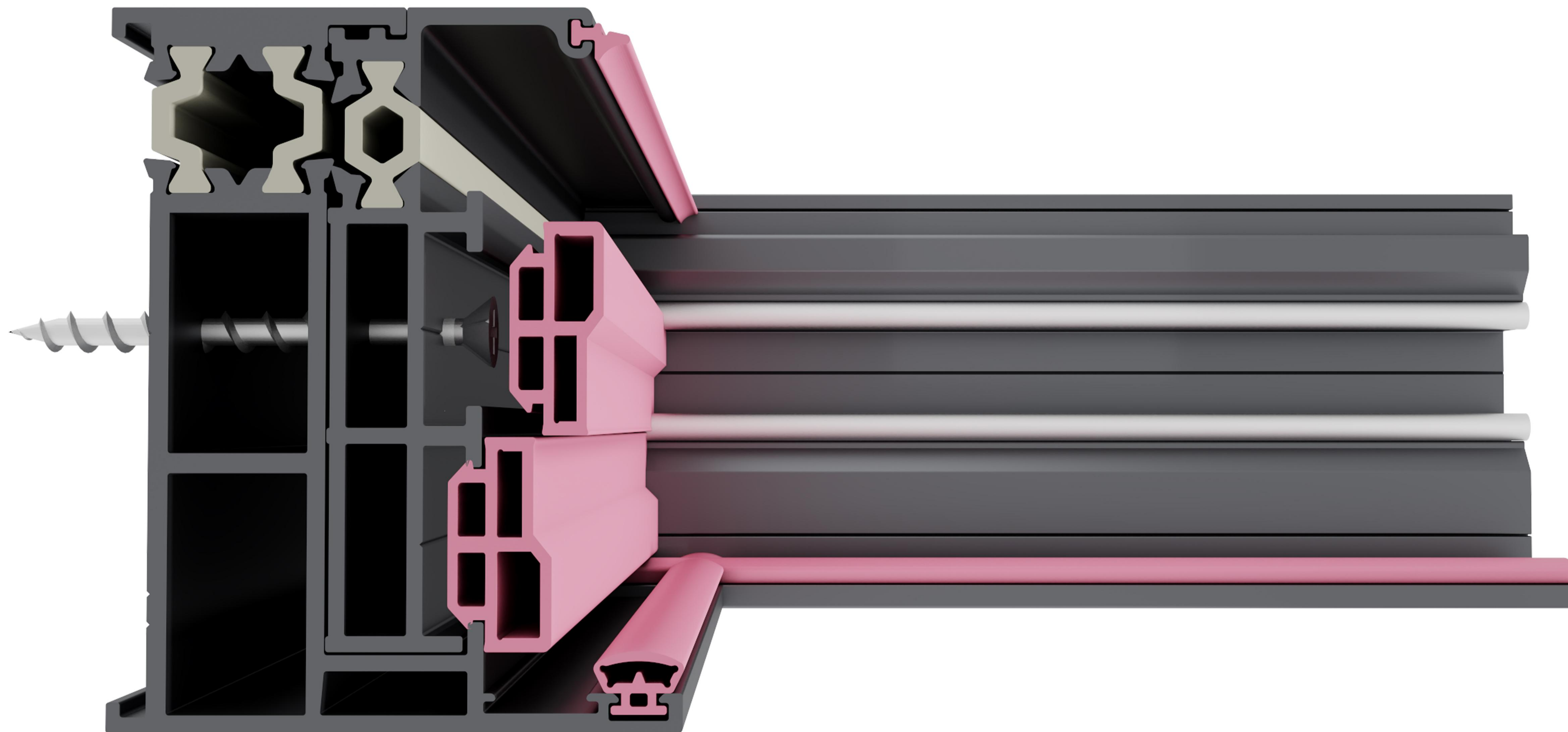
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Project:

Drawing For:

Design For Customr Approval

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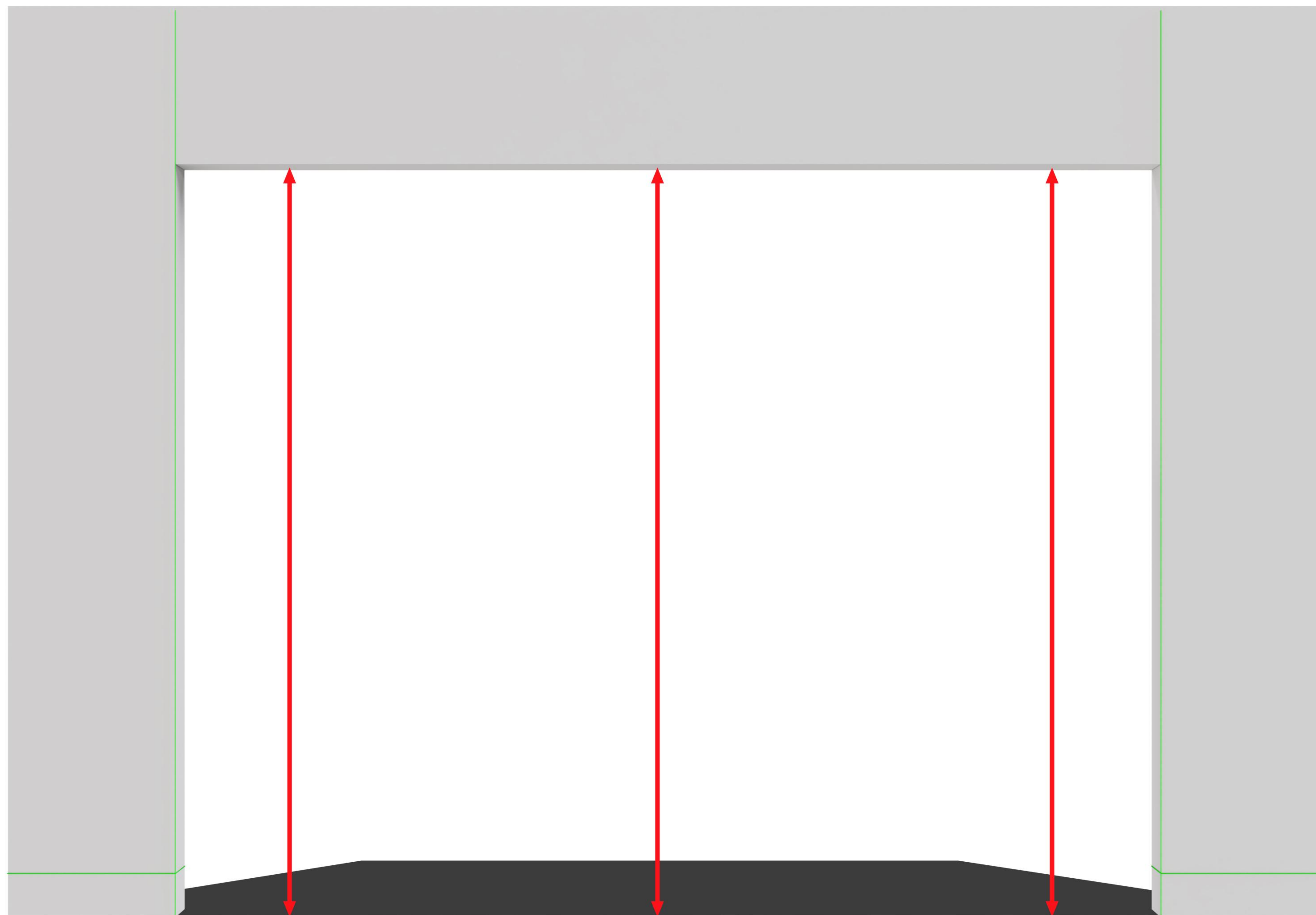


73 folding door frame

Frame fixing methods for folding doors



Tools Needed for Installation



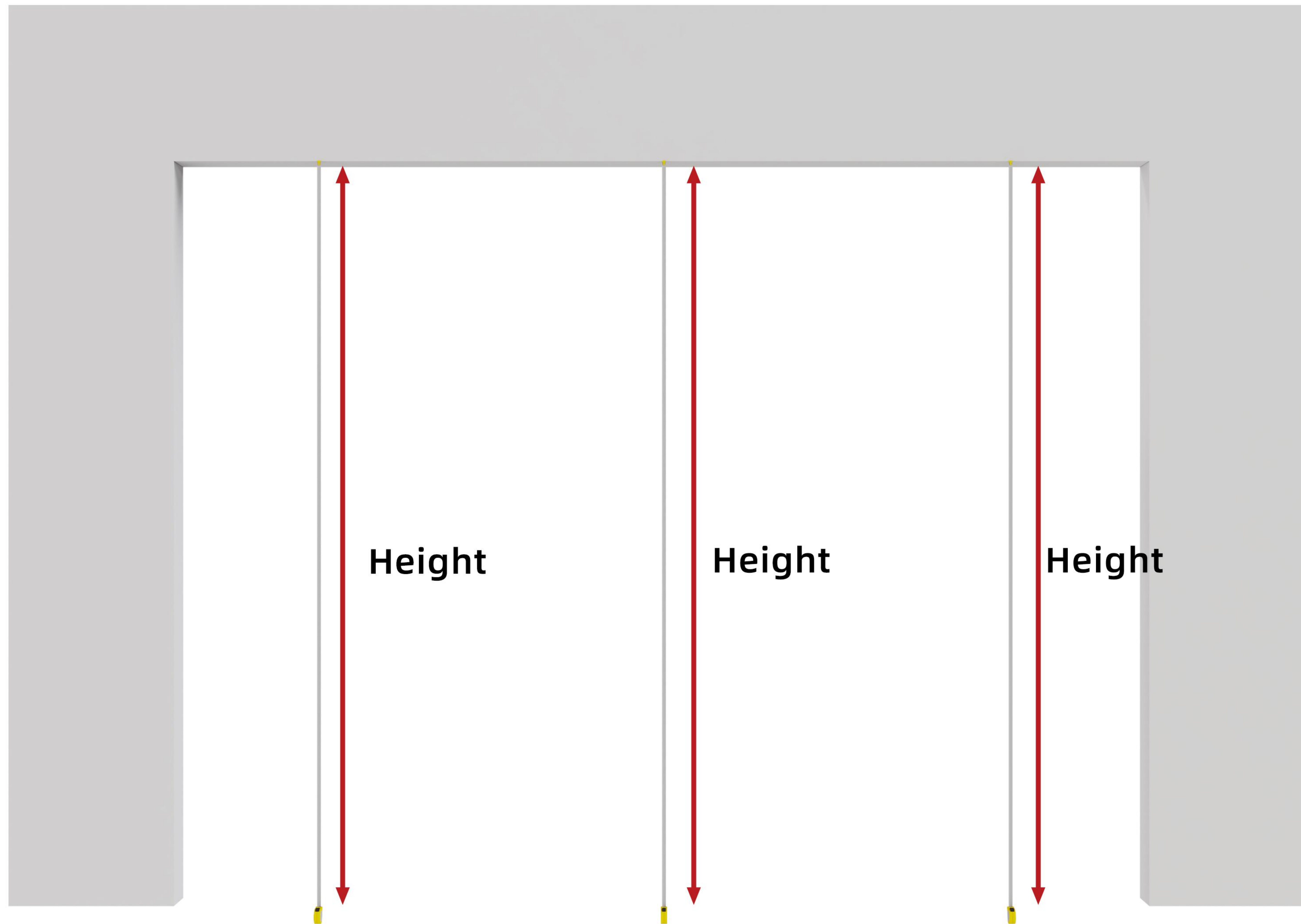
Measuring the Opening Level

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.



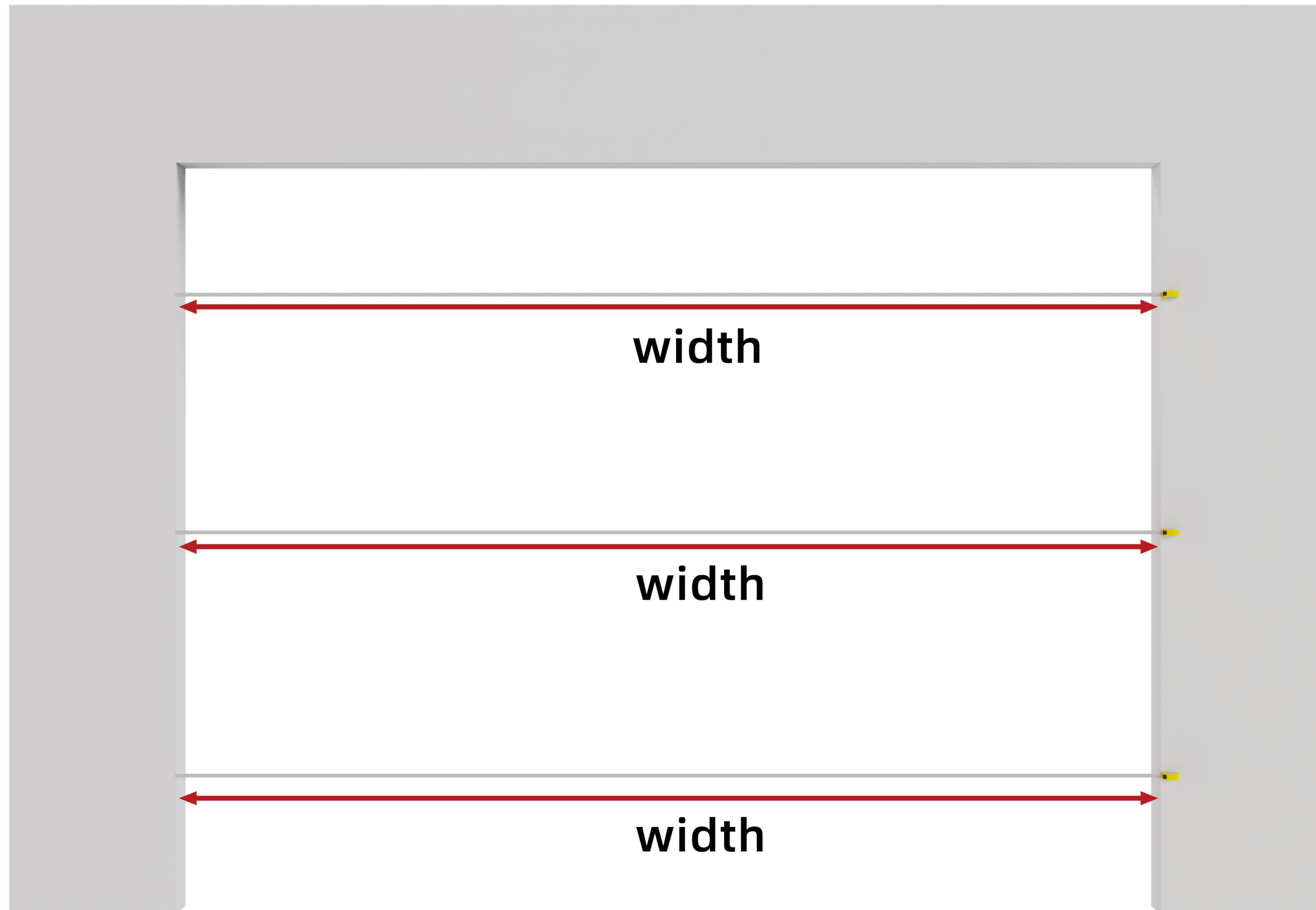
The floor level must be given special attention, as it is crucial for a smooth installation later.





Measuring the Opening Width and Height

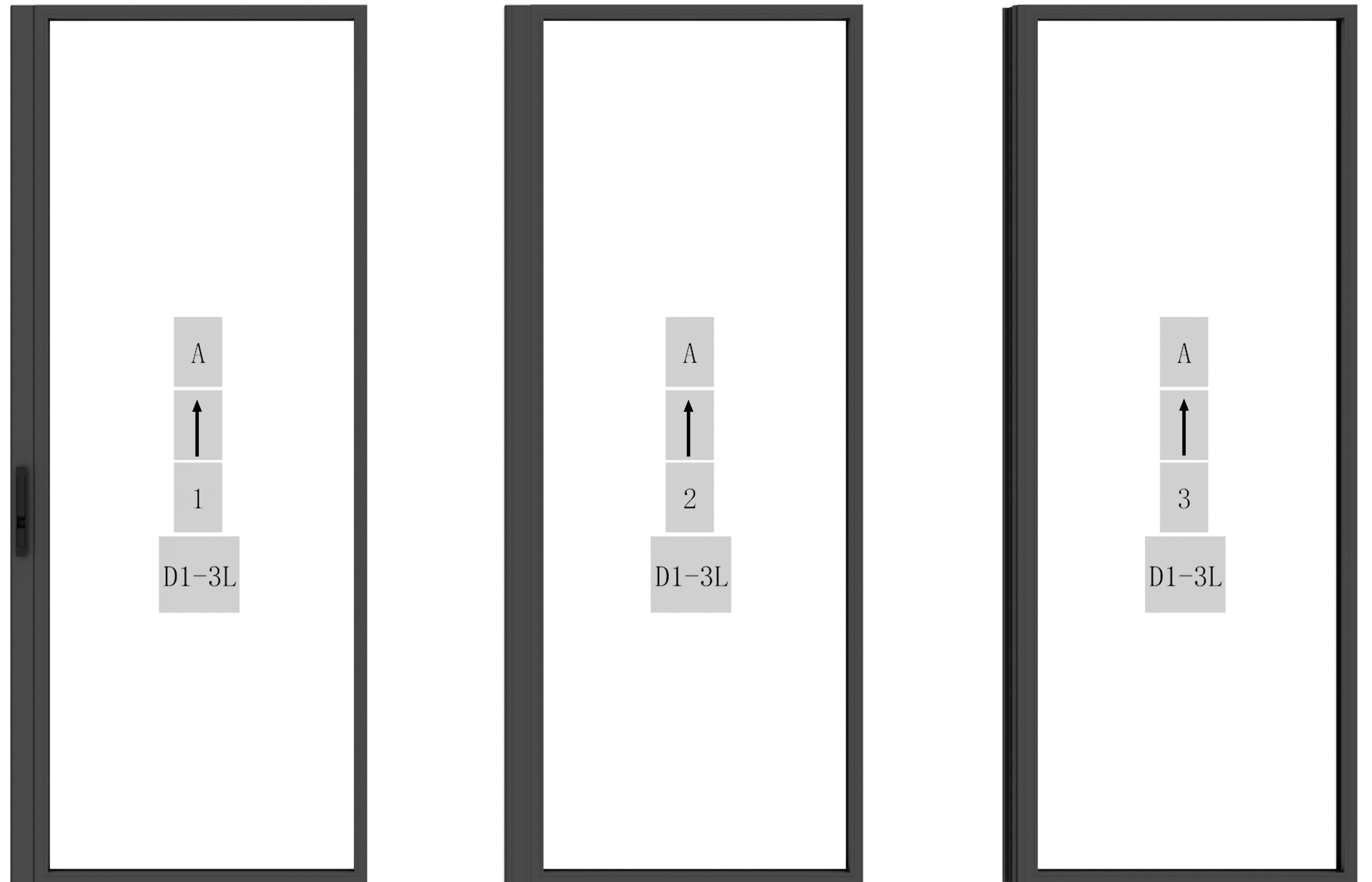
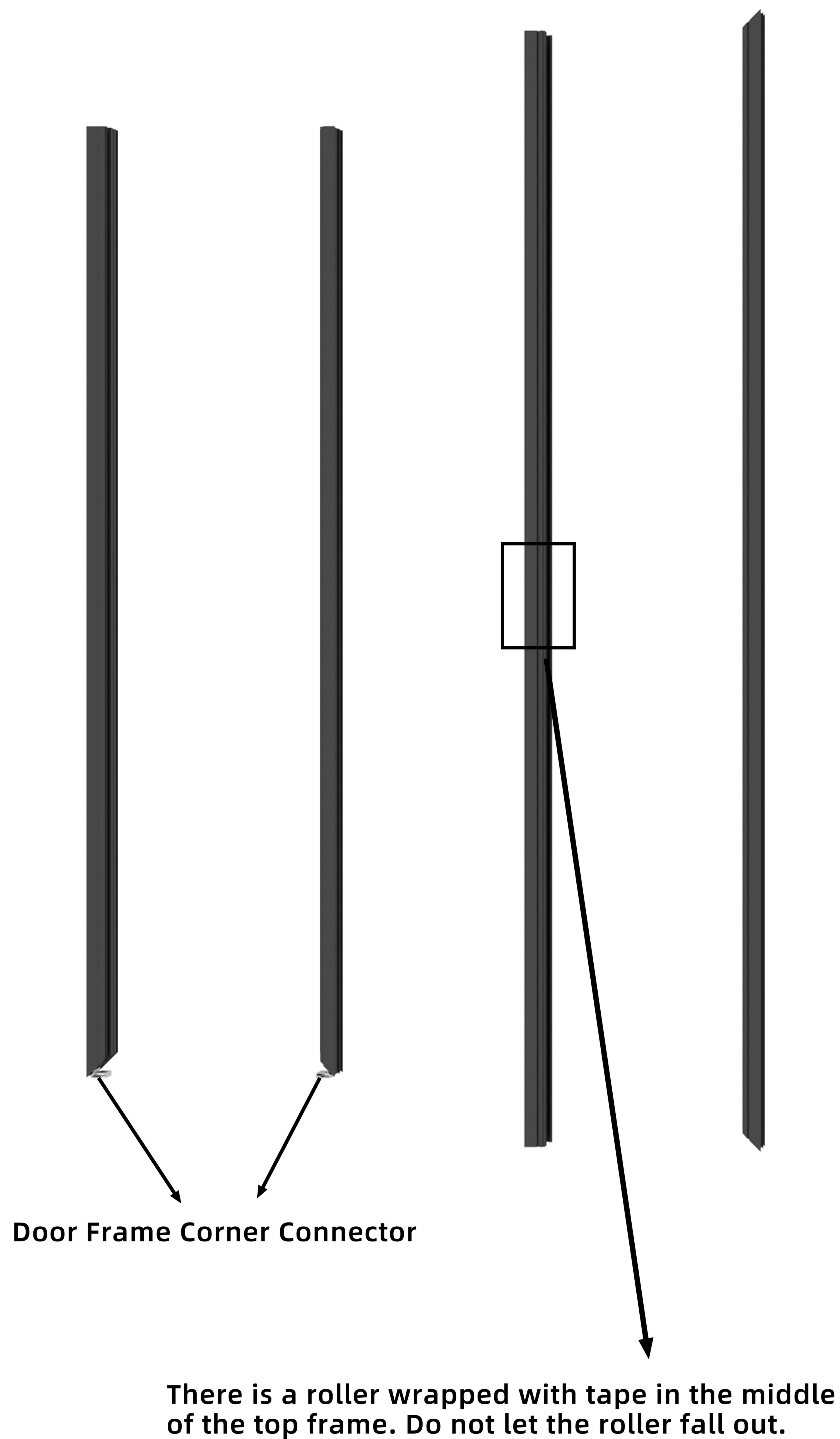
The overall width and height of the opening should have a tolerance of no more than 1 inch, and it is recommended to keep it within 0.5 inch. Both width and height must be measured at three positions (for width: upper, middle, and lower; for height: left, middle, and right), and the minimum value among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



MEASURING ROUGH OPENING WIDTH AND HEIGHT

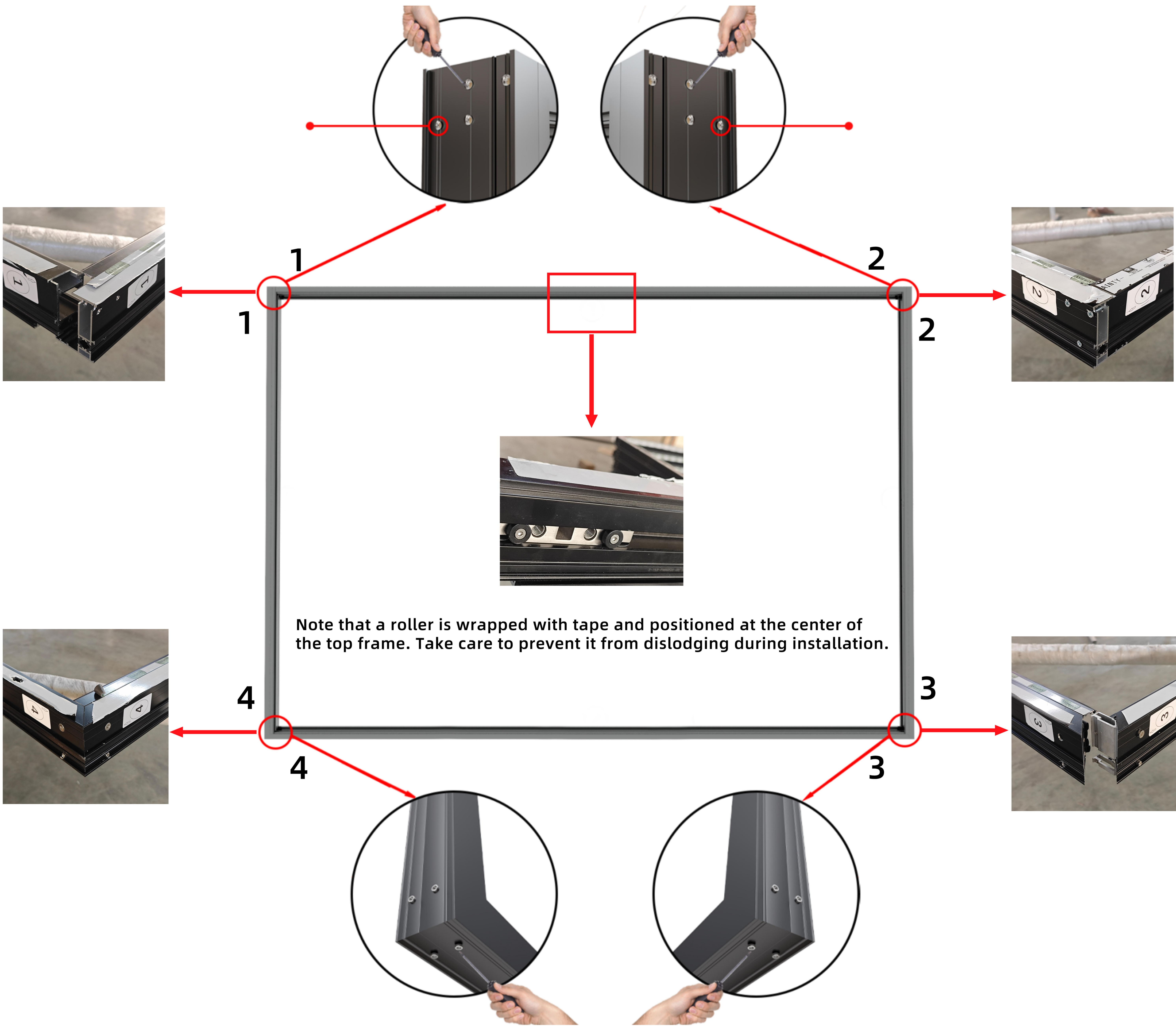
The overall width and height of the rough opening shall not exceed 1 inch, and it is recommended to keep the tolerance within 0.5 inch.

The width and height values must be determined by measuring at three positions (top, middle, bottom for width; left, middle, right for height) and taking the smallest measurement from each set.



1. Label 1 represents the first panel to be installed. Regardless of the panel configuration, installation must be carried out in the order of 2, 3, and 4.
2. All labels are located on the indoor side.
3. D1 denotes the identification number of this door. The letter A indicates one set of the D1 door; it should not be confused with other panels marked B or C, nor should it be combined with panels from the D2 door.
4. The arrow indicates which side faces upward.
5. **3L**: Exterior view - 3 panels on the left side.

The marked location is for long screws, and the other three are for short screws.



Installing the Outer Frame

Match the labels one-to-one according to the numbers, e.g., 1 with 1, 2 with 2, 3 with 3, and 4 with 4, to assemble the frame. Then install the screws into the pre-drilled holes.

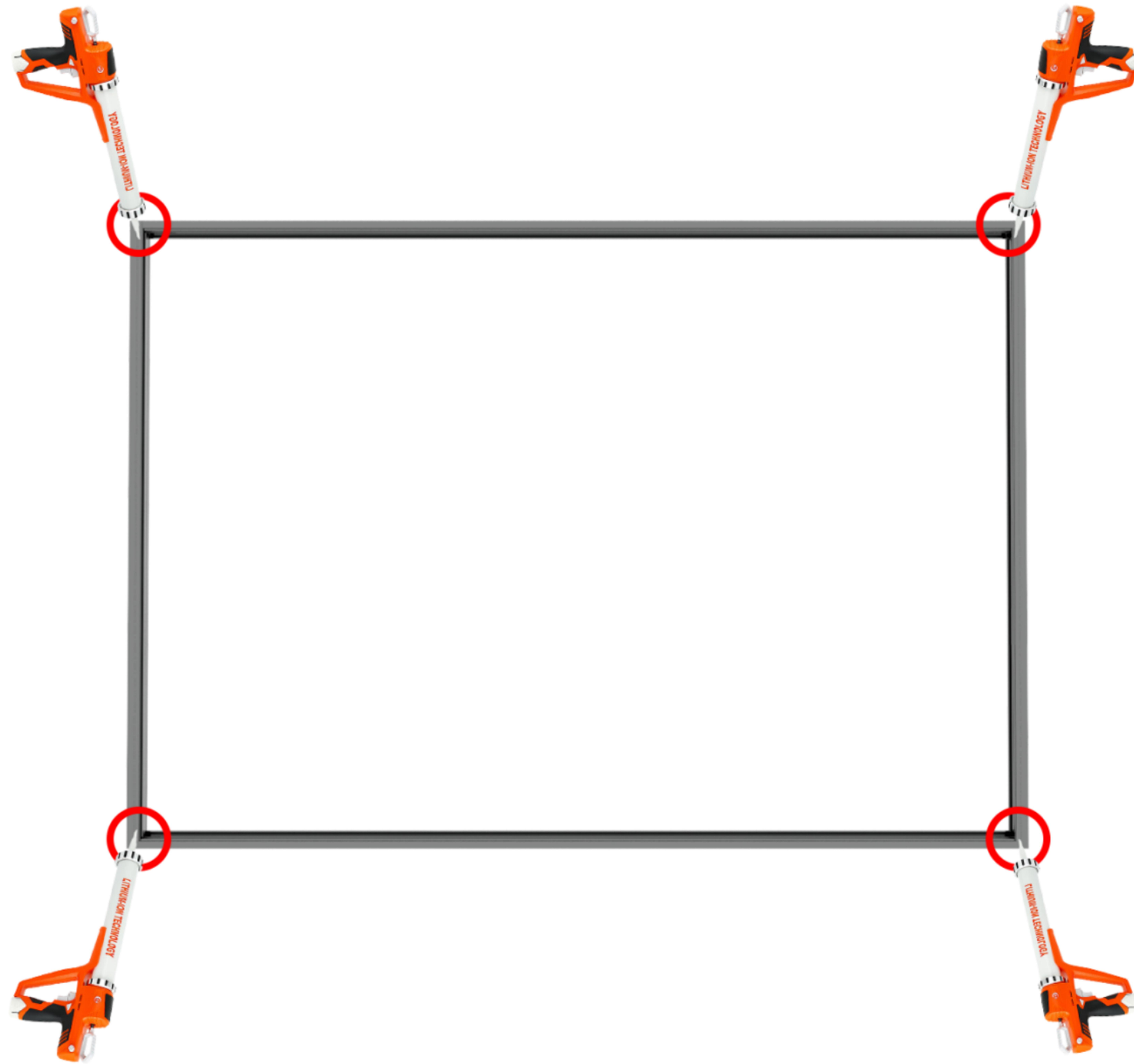
Note: For the top frame, at the positions where 1-1 and 2-2 are matched, the fixing screws consist of three short screws and one long screw, as marked with red circles in the figure.

The installation shown in the figure for the bottom frame illustrates the high-track installation method. For the low-track version, it uses a 45-degree corner joining assembly; just install the screws into the pre-drilled holes as provided.



After installation, measure the frame dimensions to verify their accuracy.

Check the frame width and height to ensure proper fit and avoid mismatches.



Applying Sealant at Corner Joints

After the outer frame is secured with screws, apply sealant to the surface at each corner joint.



Set the outer frame into the wall opening.

First, determine the indoor and outdoor orientation according to the track plan diagram at the lower left. After confirming the indoor/outdoor direction, place the assembled frame into the opening.



LOW-TRACK OPTION

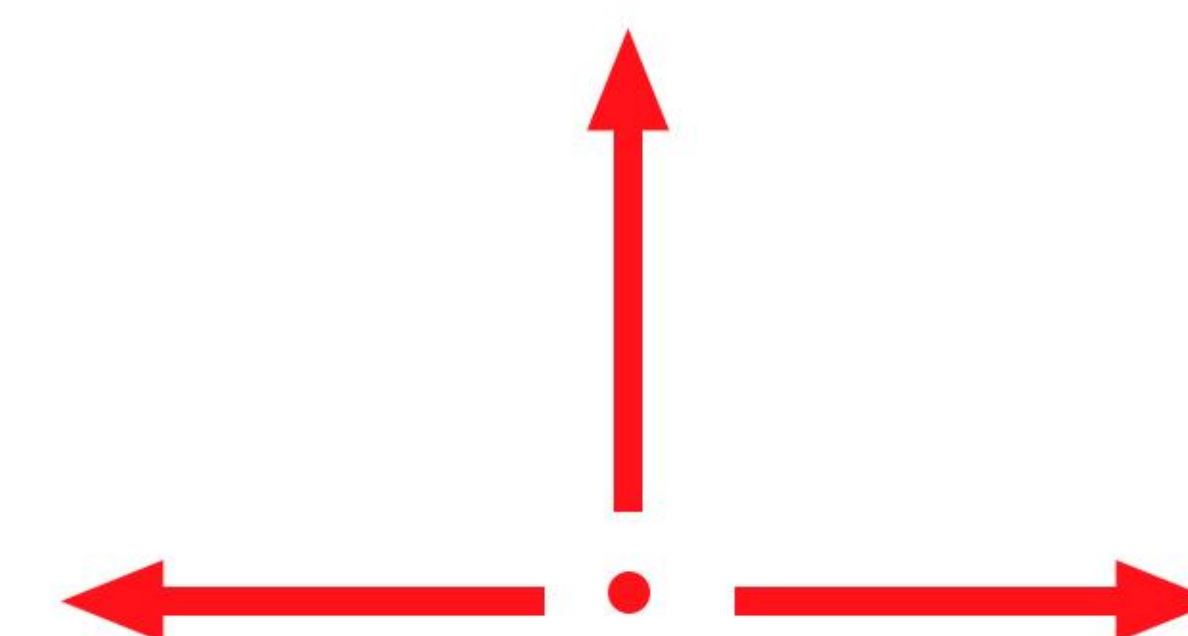


HIGH-TRACK OPTION



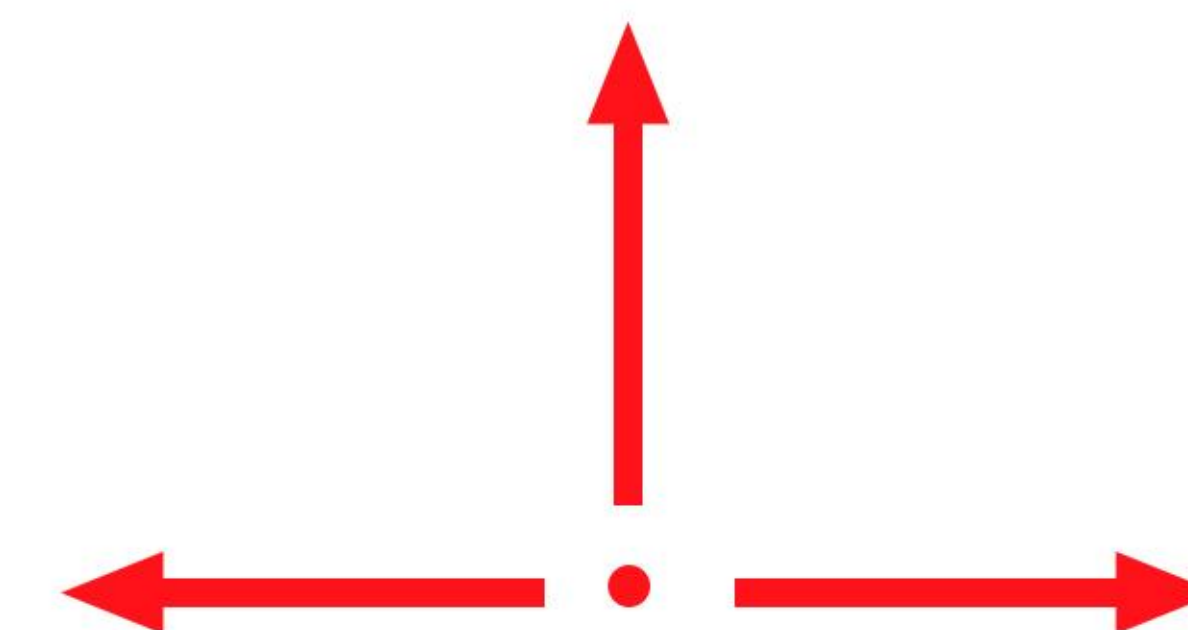
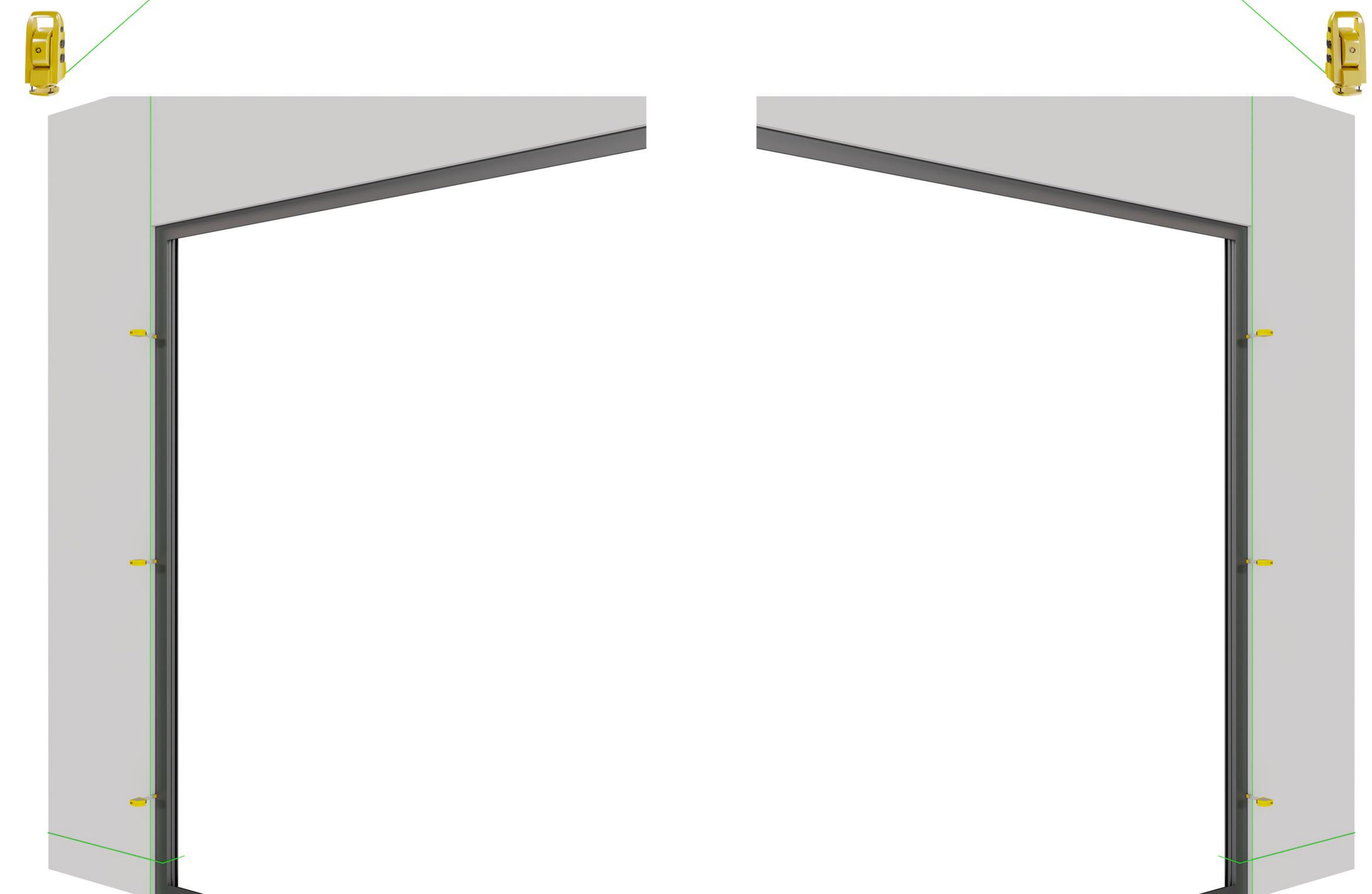
Applying Sealant to the Floor

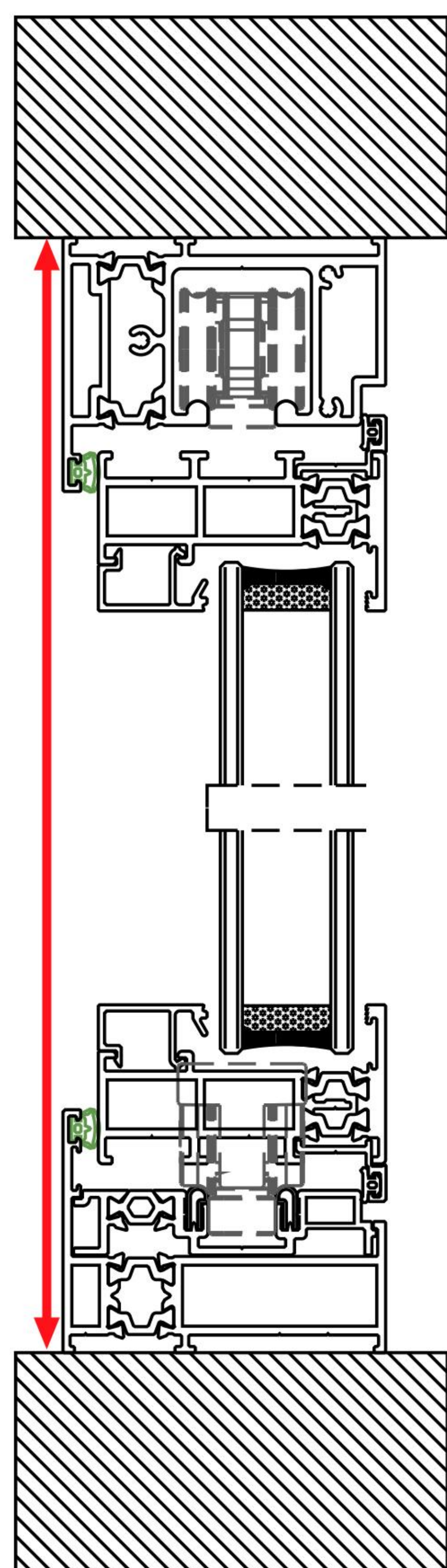
Before inserting the outer frame into the opening, apply sealant (silicone sealant) to the floor. Then insert the outer frame into the opening so that the bottom of the lower frame sits firmly on the sealant.



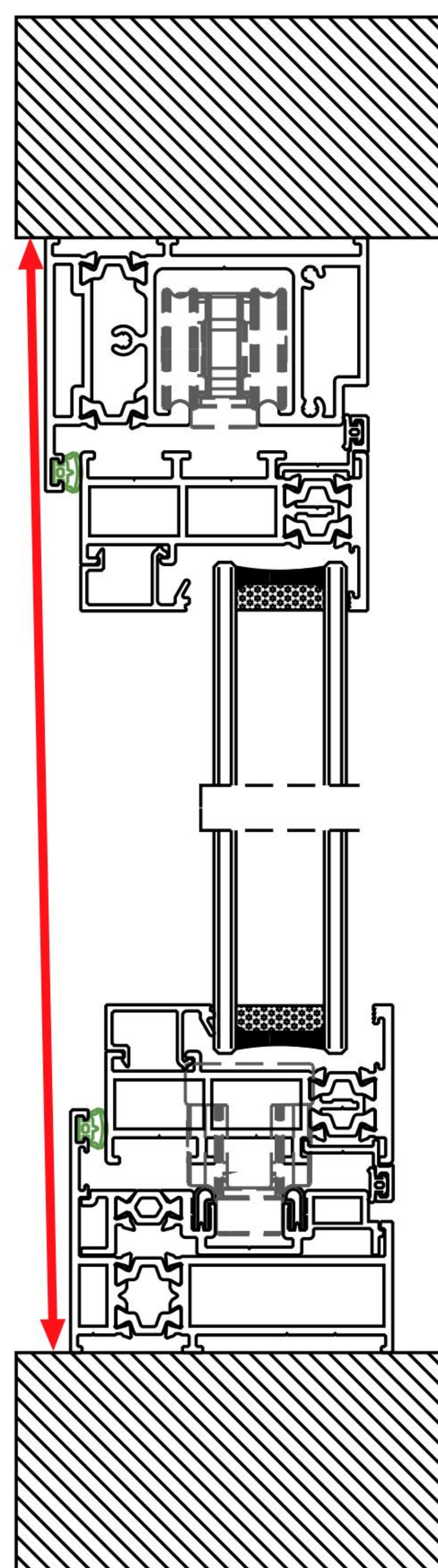
Level the frame before securing it.

Use a three-line laser level to establish a horizontal reference. Then, take measurements at several points along the left, right, and bottom frames with a tape measure, and ensure all readings are consistent. Depending on the actual site conditions, insert shims at any locations where the surface is uneven.





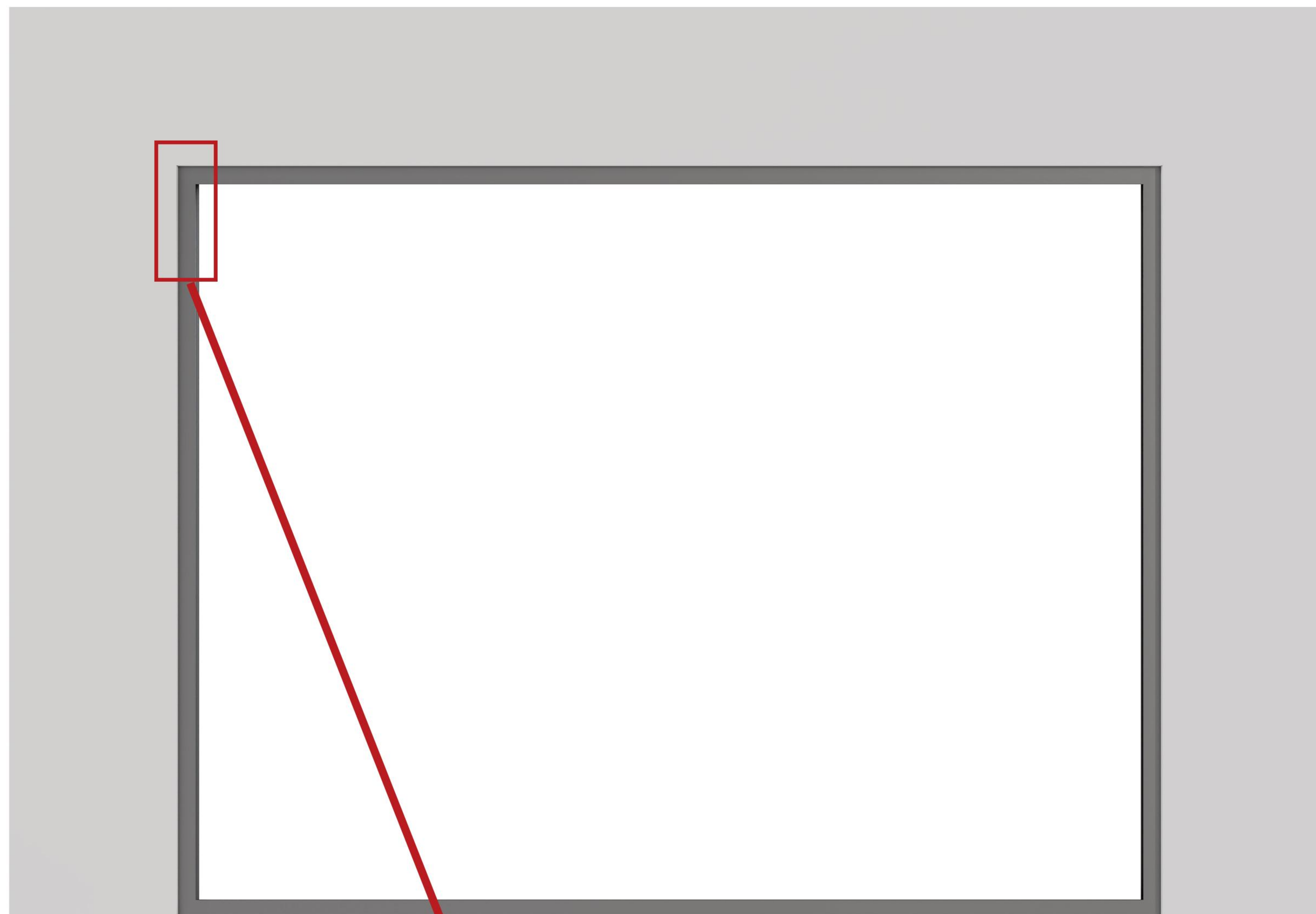
The frame must be level and plumb,
without inclination or distortion.



If it is not level and plumb, and has
inclination or distortion, it is unacceptable.

Level the frame before securing it.

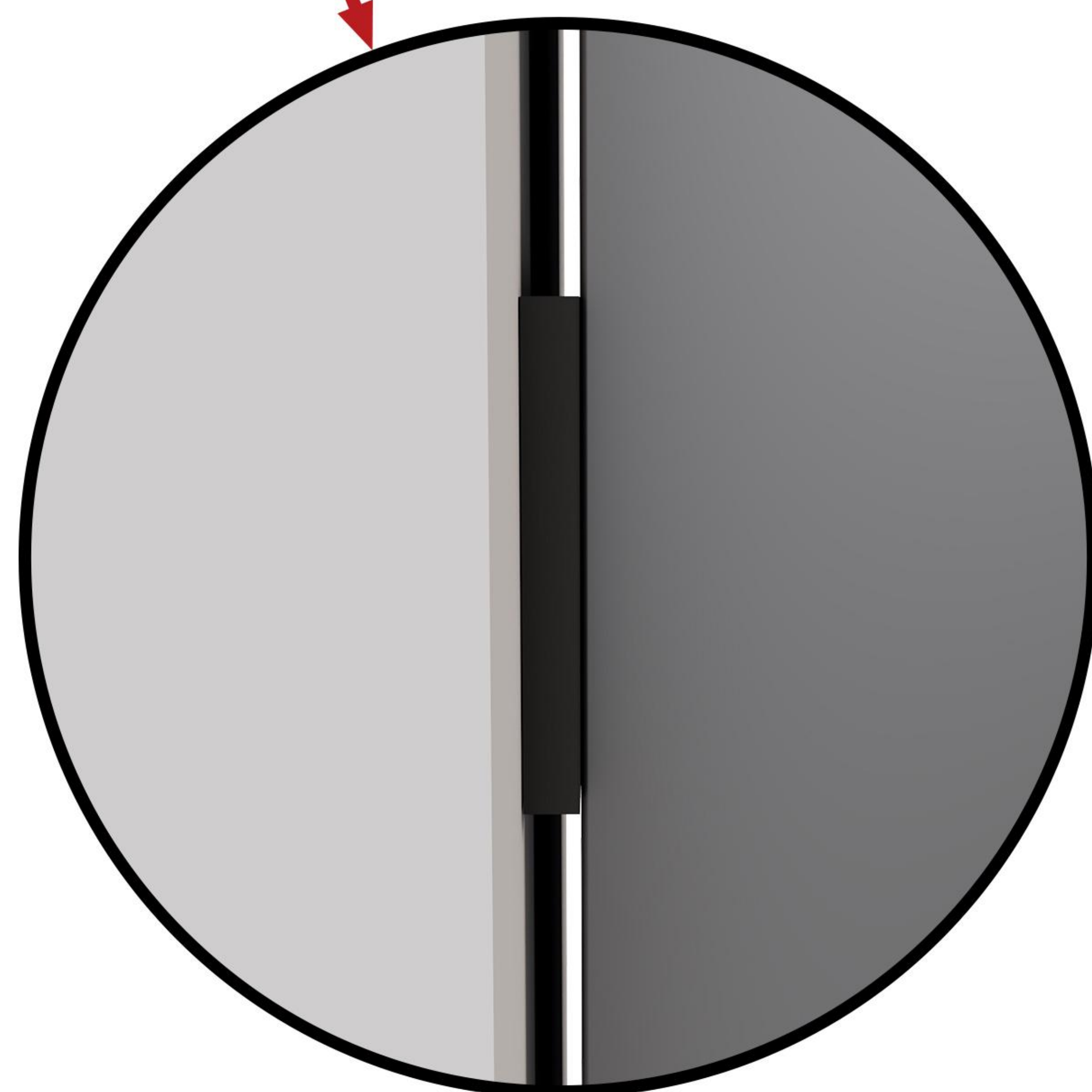
Be sure to verify from the side that the outer frame remains
free from inclination and distortion. Perform several checks
to confirm.

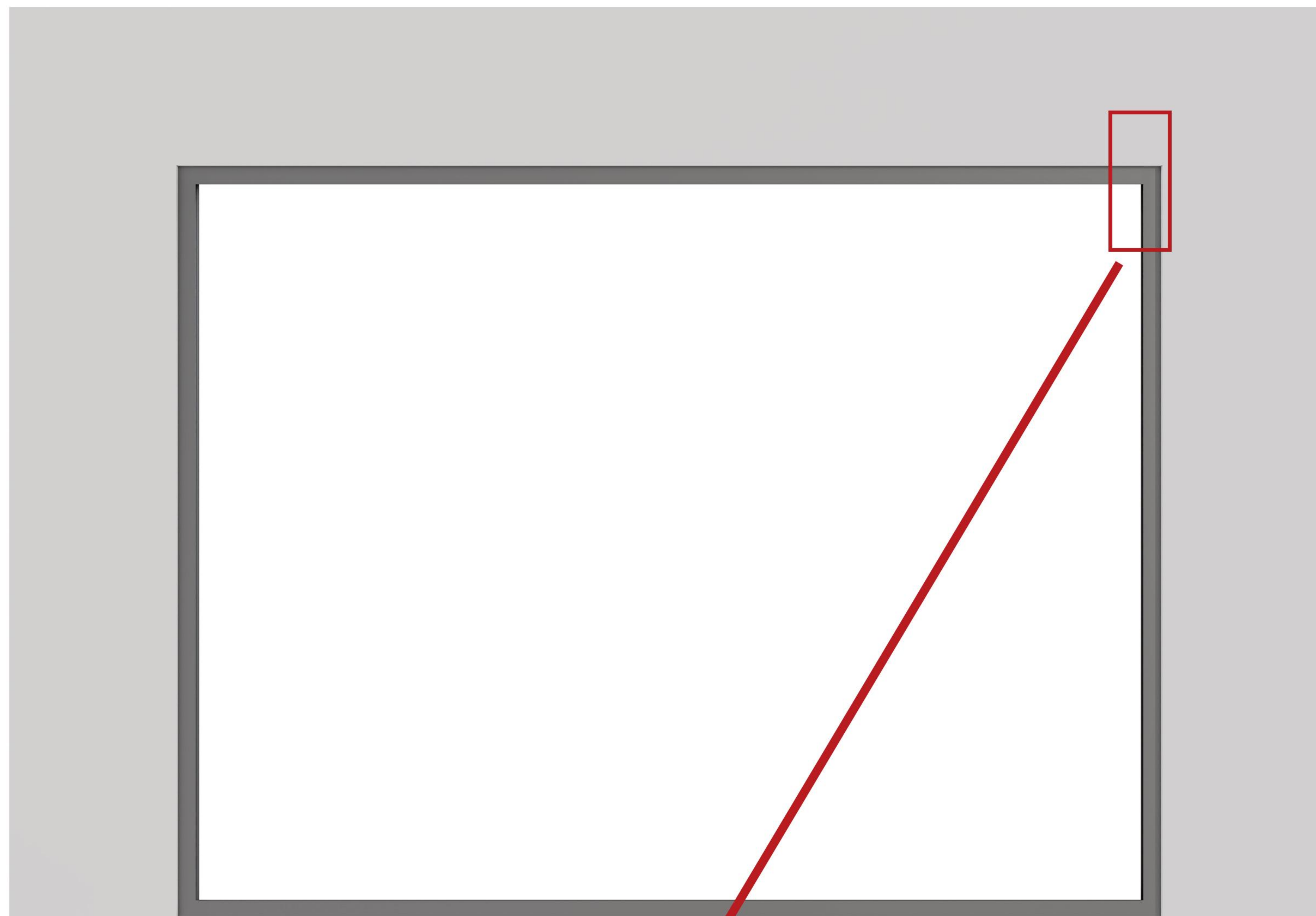


Frame mounting screws

Re-verify that the level is correct. Then, peel back the weather seal and mark the drilling positions evenly along the length of the member. The distance between the top and bottom end holes shall be within 100-120mm (3.94" / 4.72") , and the intermediate spacing shall be within 400-600mm (15.75" / 23.62") . After the holes are drilled, insert shims into the gap between the upper left corner of the frame (adjacent to the hinge side) and the wall, placing them near the drilled holes (on top of the holes). Then proceed to drive the screws, but drive only one screw initially; do not drive additional screws at this time.

Actual photo showing shims positioned near the screws (above them). The shims protruding outside the frame here are for demonstration purposes only; during actual installation, the shims should not be exposed outside the frame.

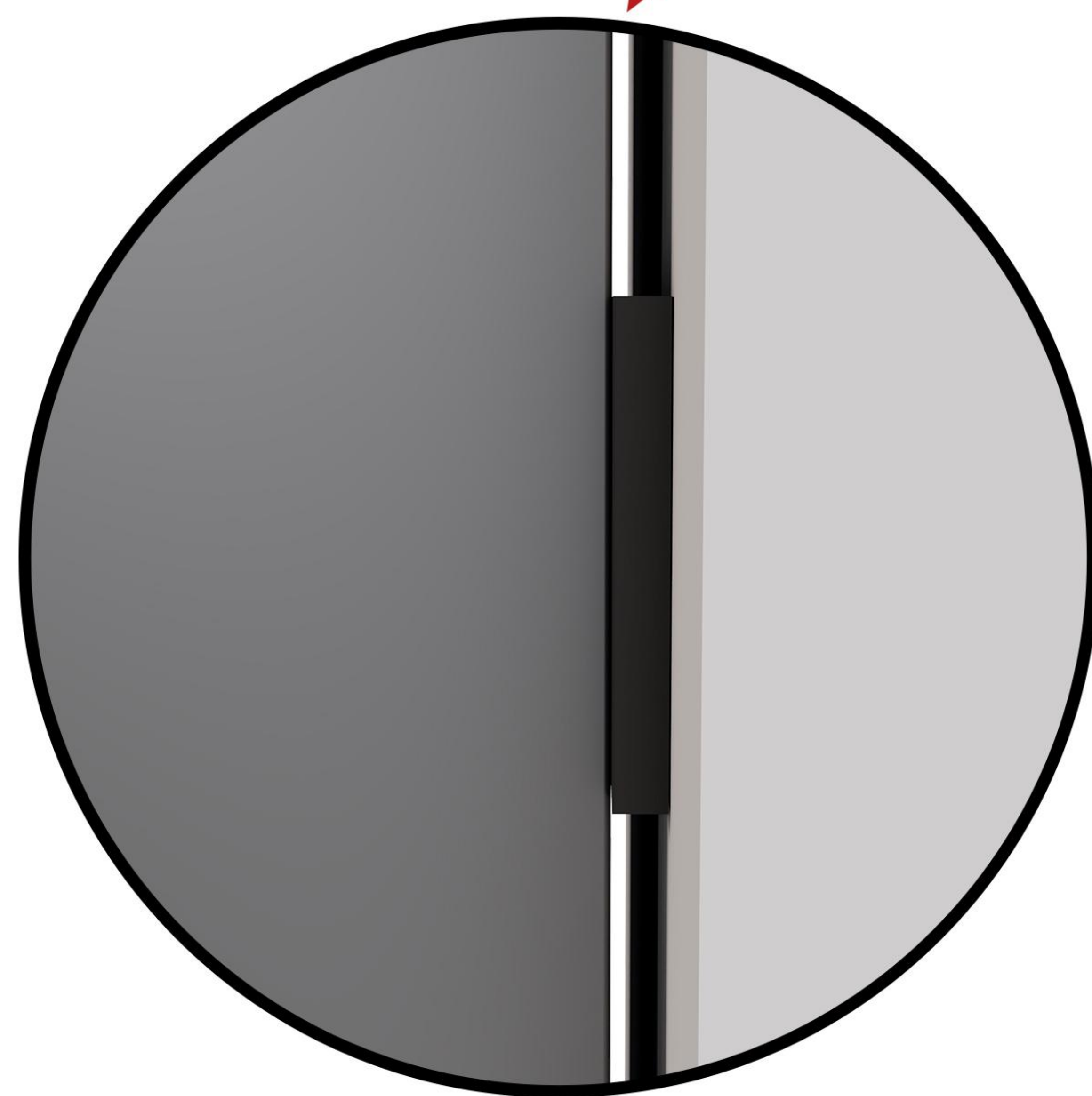


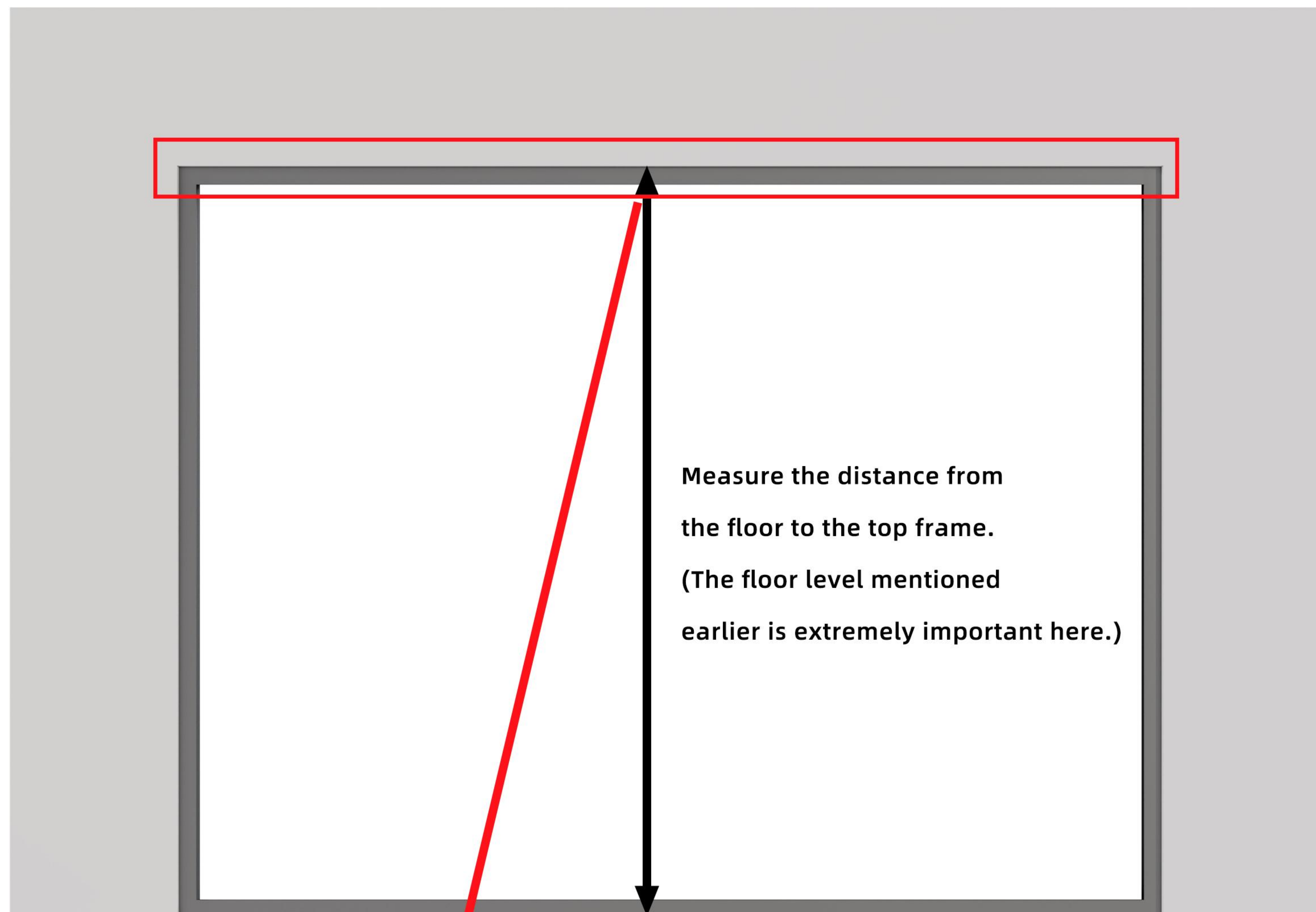


Frame mounting screws

Reconfirm that the level is correct. Then pull back the weatherstripping and evenly mark drilling positions along the length of the profile. The end spacing (top and bottom holes) should be within 100-120mm (3.94" / 4.72") , and the intermediate spacing within 400-600mm (15.75" / 23.62") . After drilling, insert shims into the gap between the upper right corner of the frame and the wall, placing them near the drilled holes (on the upper side). Then drive the screws, but drive only one screw first—do not drive more.

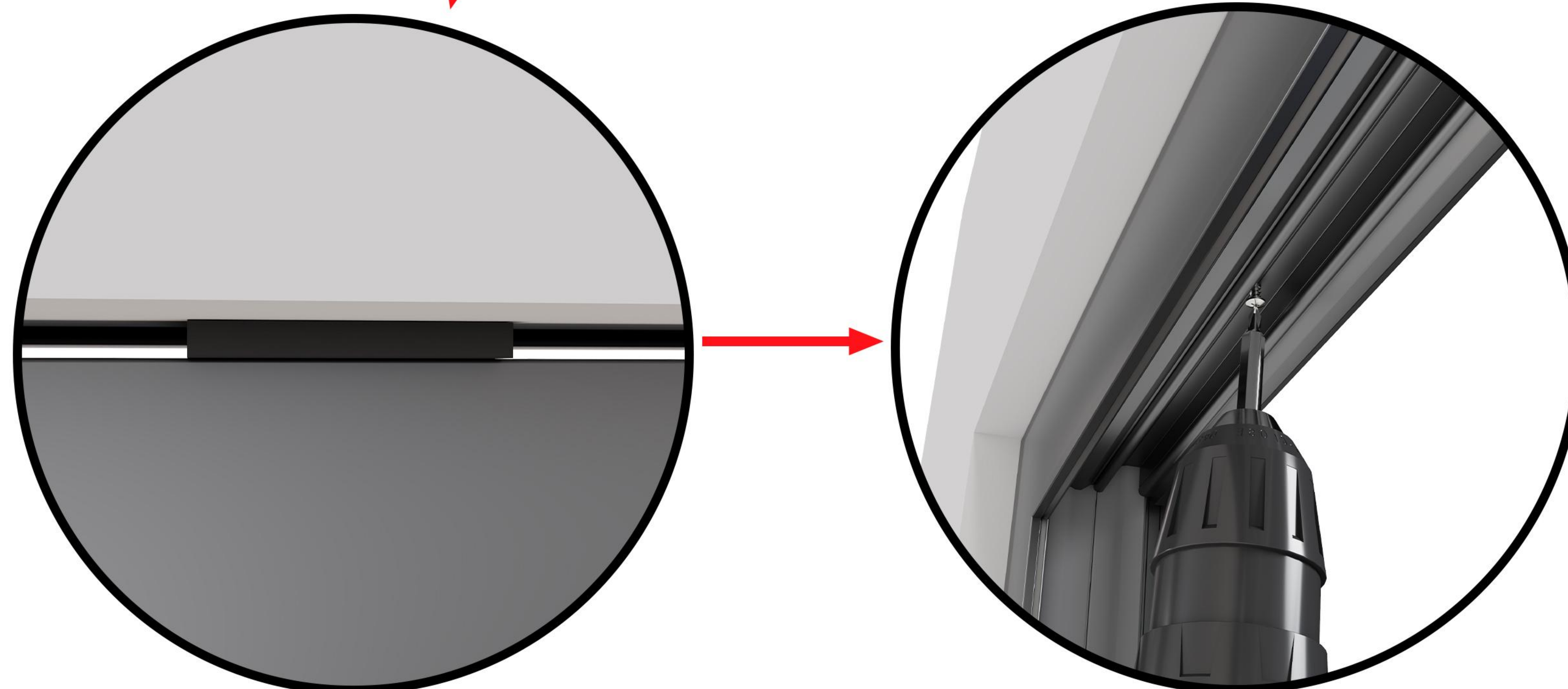
Actual photo showing shims positioned near the screws (above them). The shims protruding outside the frame here are for demonstration purposes only; during actual installation, the shims should not be exposed outside the frame.

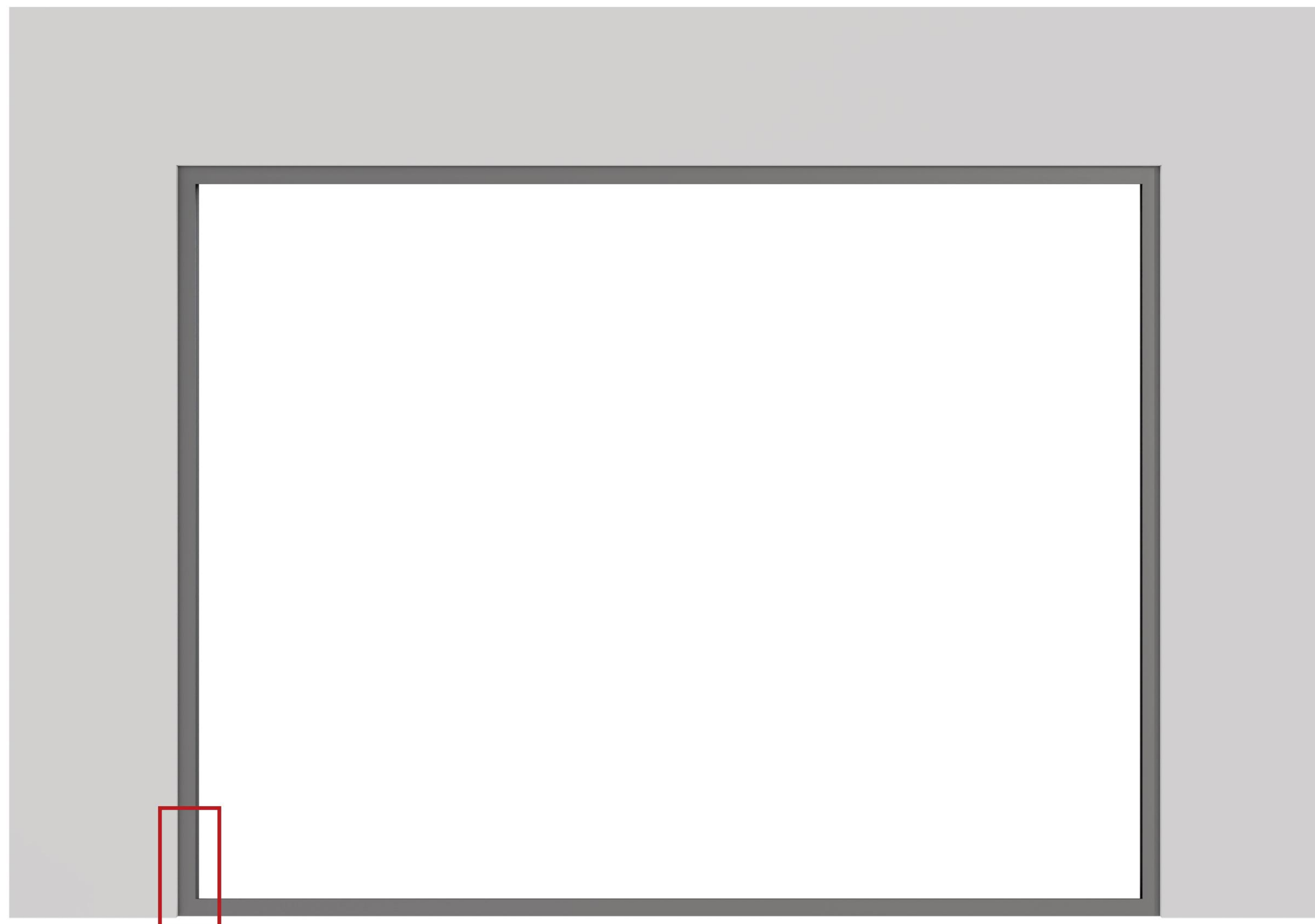




Fixing the outer frame (Precautions for fixing the top frame)

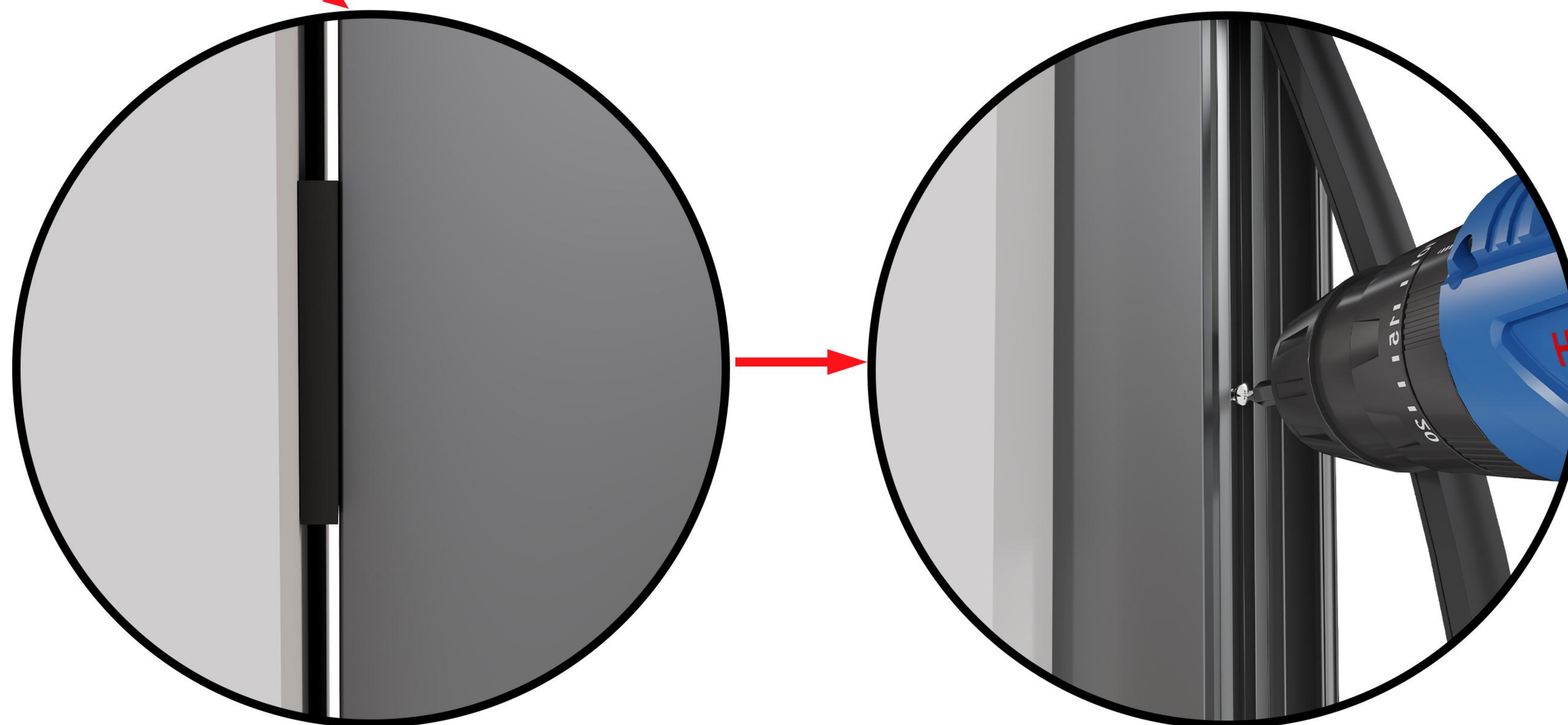
Fixing the top frame is the same as for the two side frames. The holes on the top frame are pre-drilled. At each hole, insert a shim and then install a screw sequentially. Start by installing the middle screw first, then install the remaining screws on the top frame one by one. After installing each screw, measure the distance from the floor to the top frame to ensure all measurements are identical, so the top frame is perfectly level. This will prevent friction when the door opens and closes.

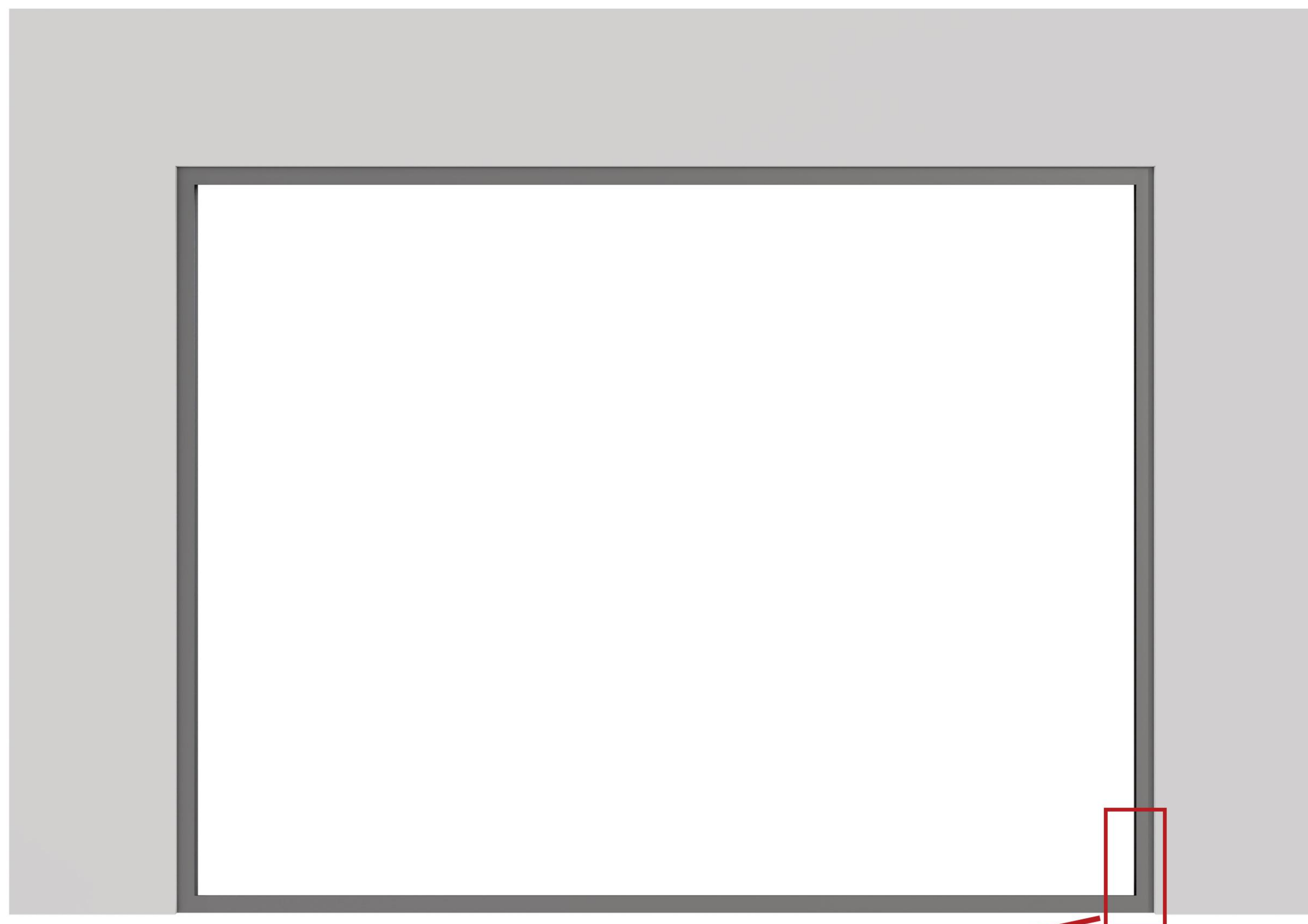




Fixing the Outer Frame

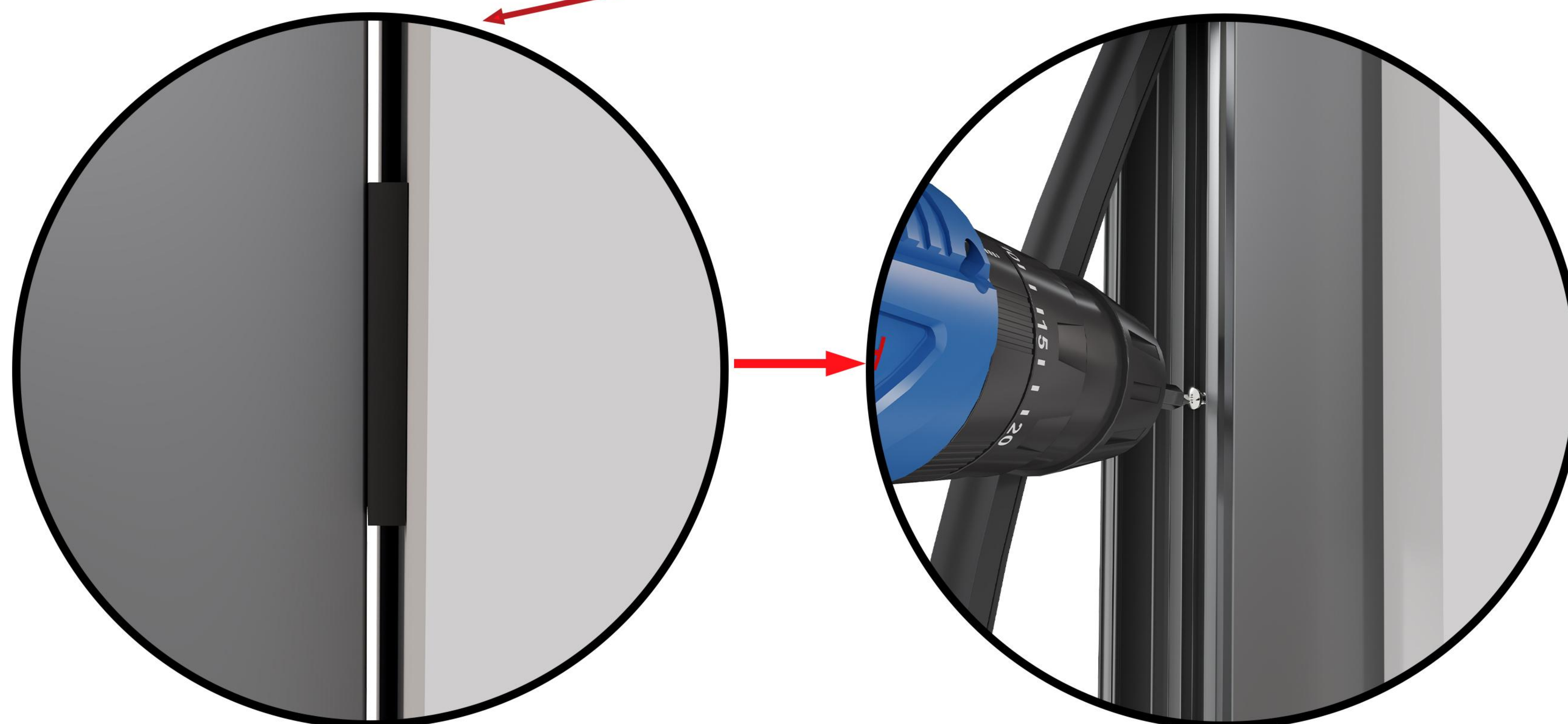
Then install one screw at the lower left and lower right corners respectively. As you drive the screws, place shims above the pre-drilled holes (near the hole locations).





Fixing the Outer Frame

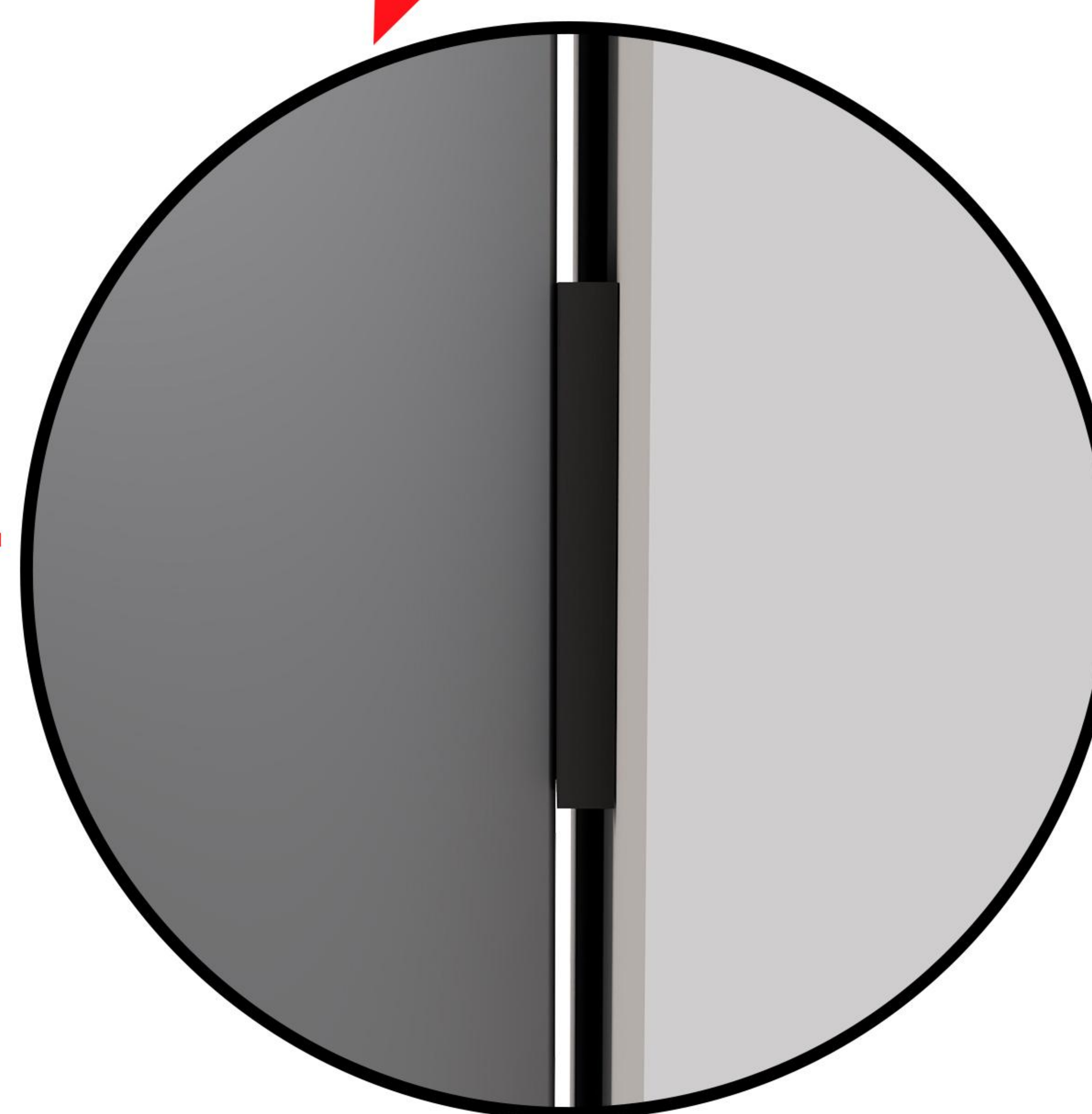
Then install one screw at each of the lower left and lower right corners. As you drive the screws, place shims on the upper side near the pre-drilled hole locations.

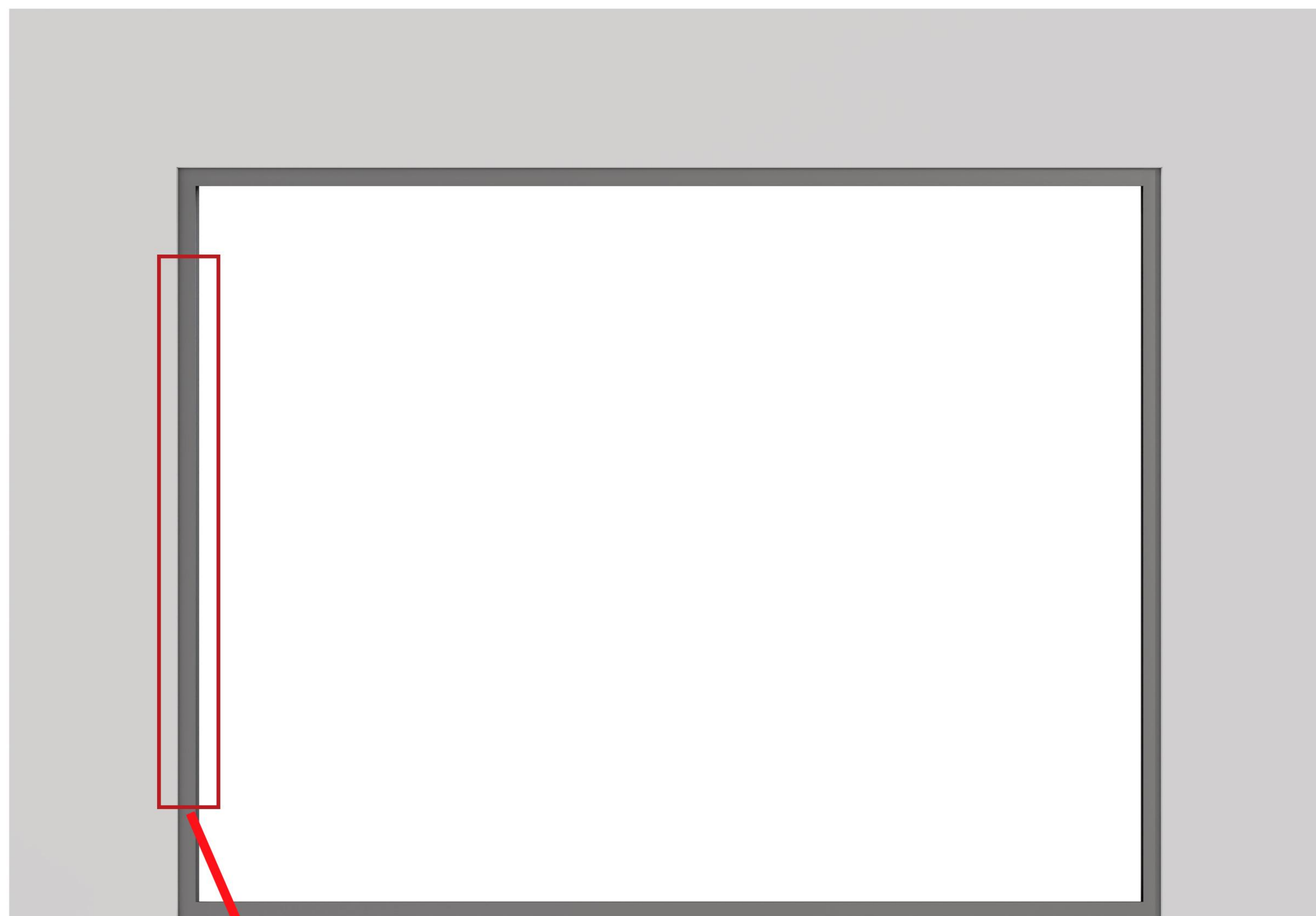




Fixing the Outer Frame

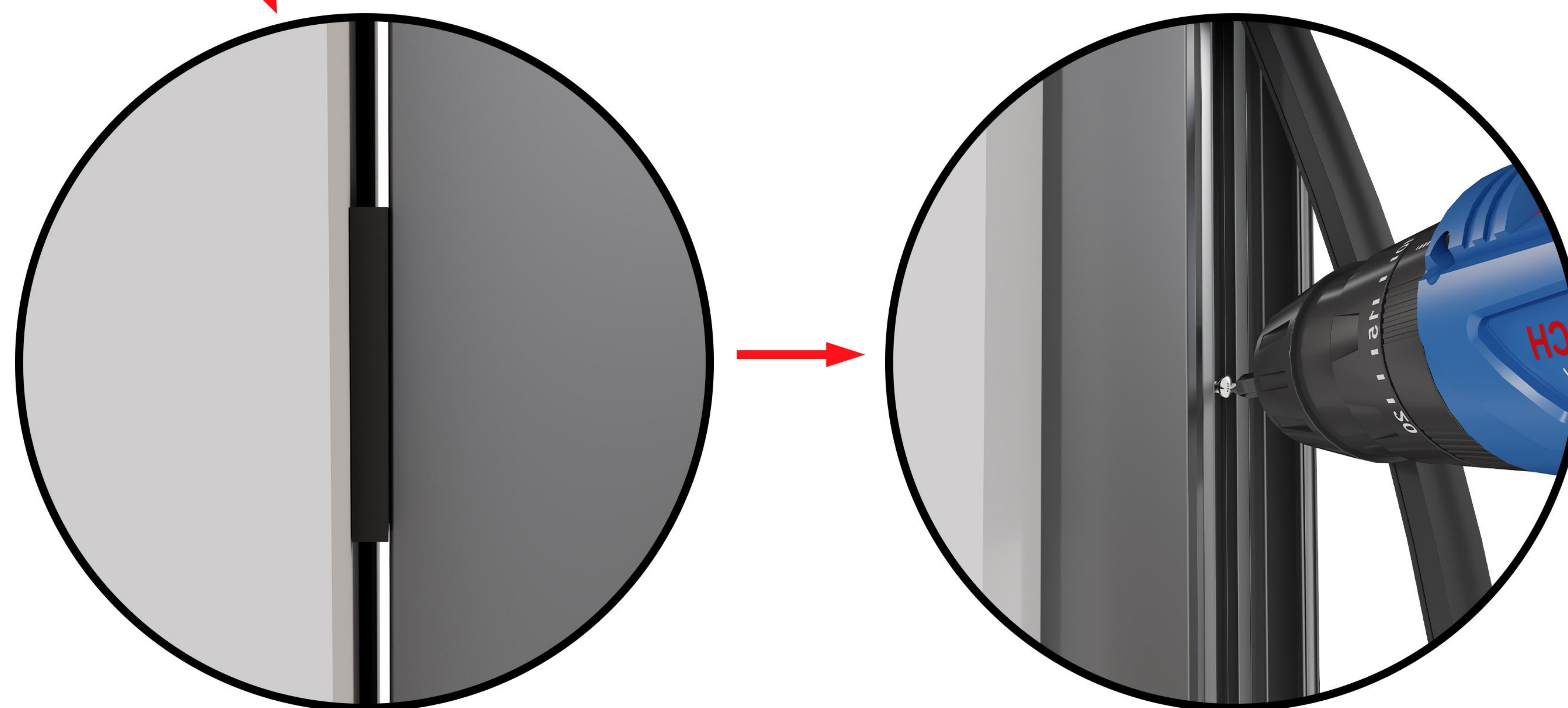
Then sequentially secure the remaining screws in the middle of the left and right side frames. As you drive the screws, insert shims at the pre-drilled hole locations. After all screws are installed, put the weatherstripping back in place and press it down firmly.



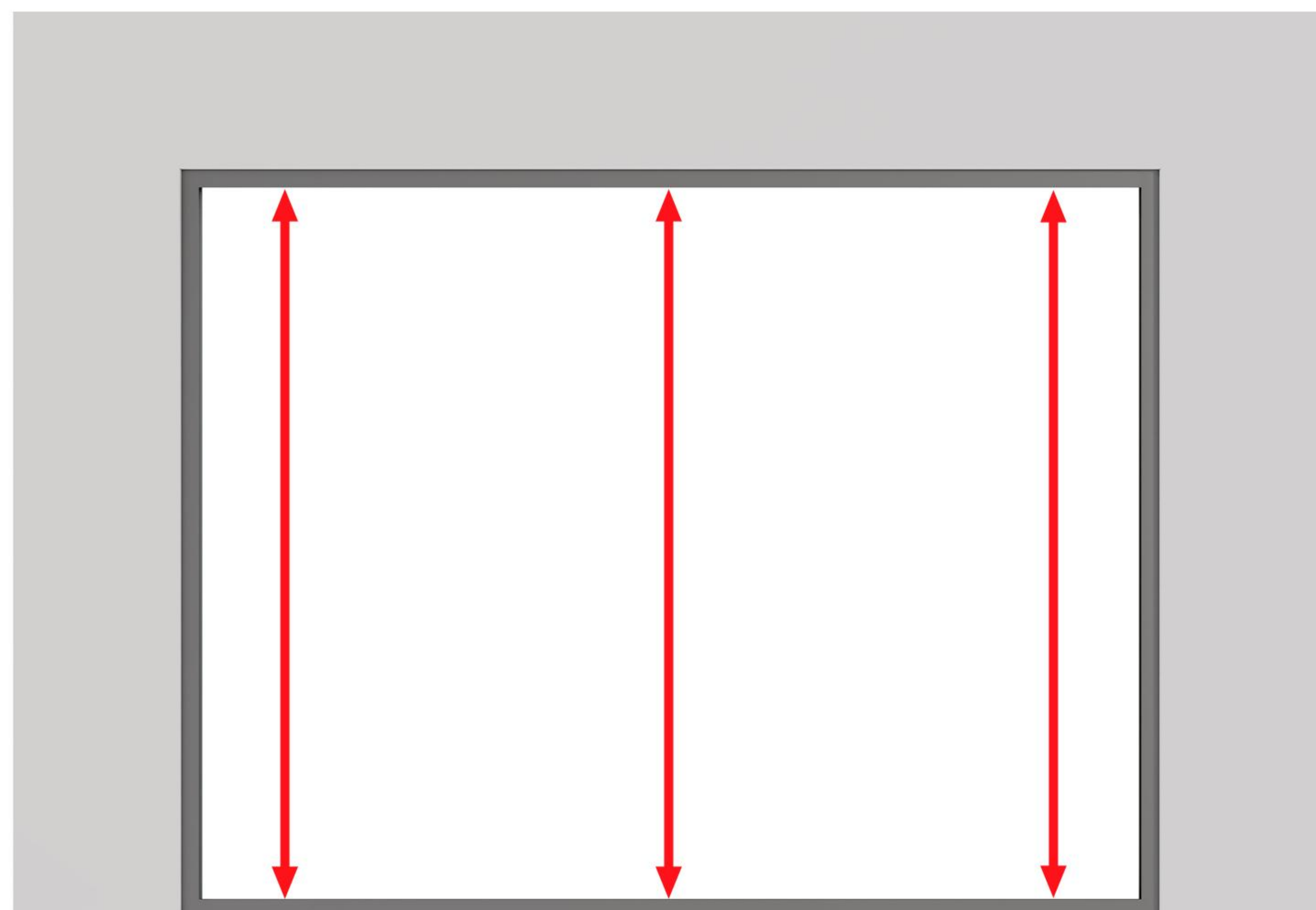


Fixing the Outer Frame

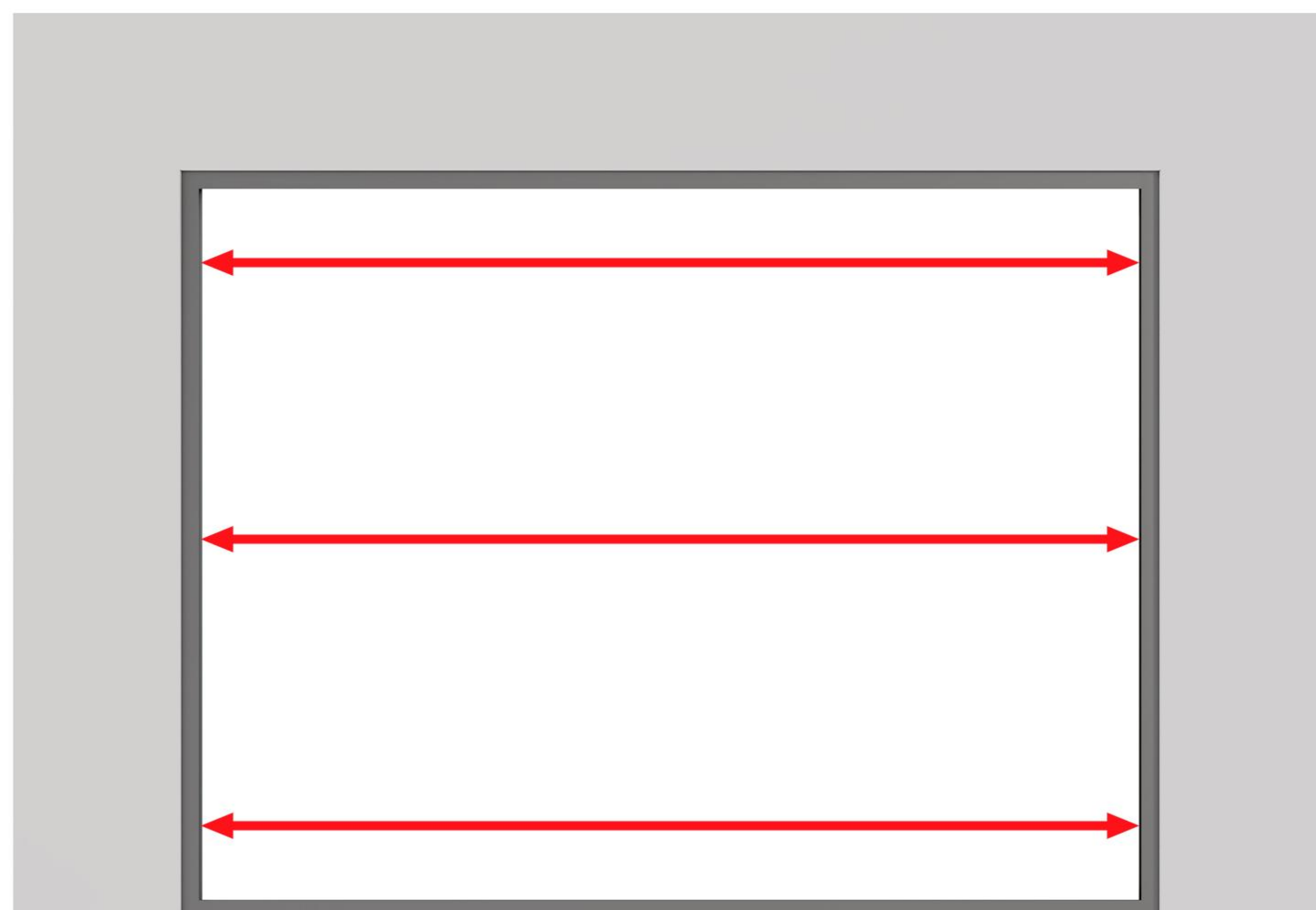
Then sequentially secure the remaining screws in the middle of the left and right side frames. As you drive the screws, insert shims at the pre-drilled hole locations. After all screws are installed, put the weatherstripping back in place and press it down firmly.



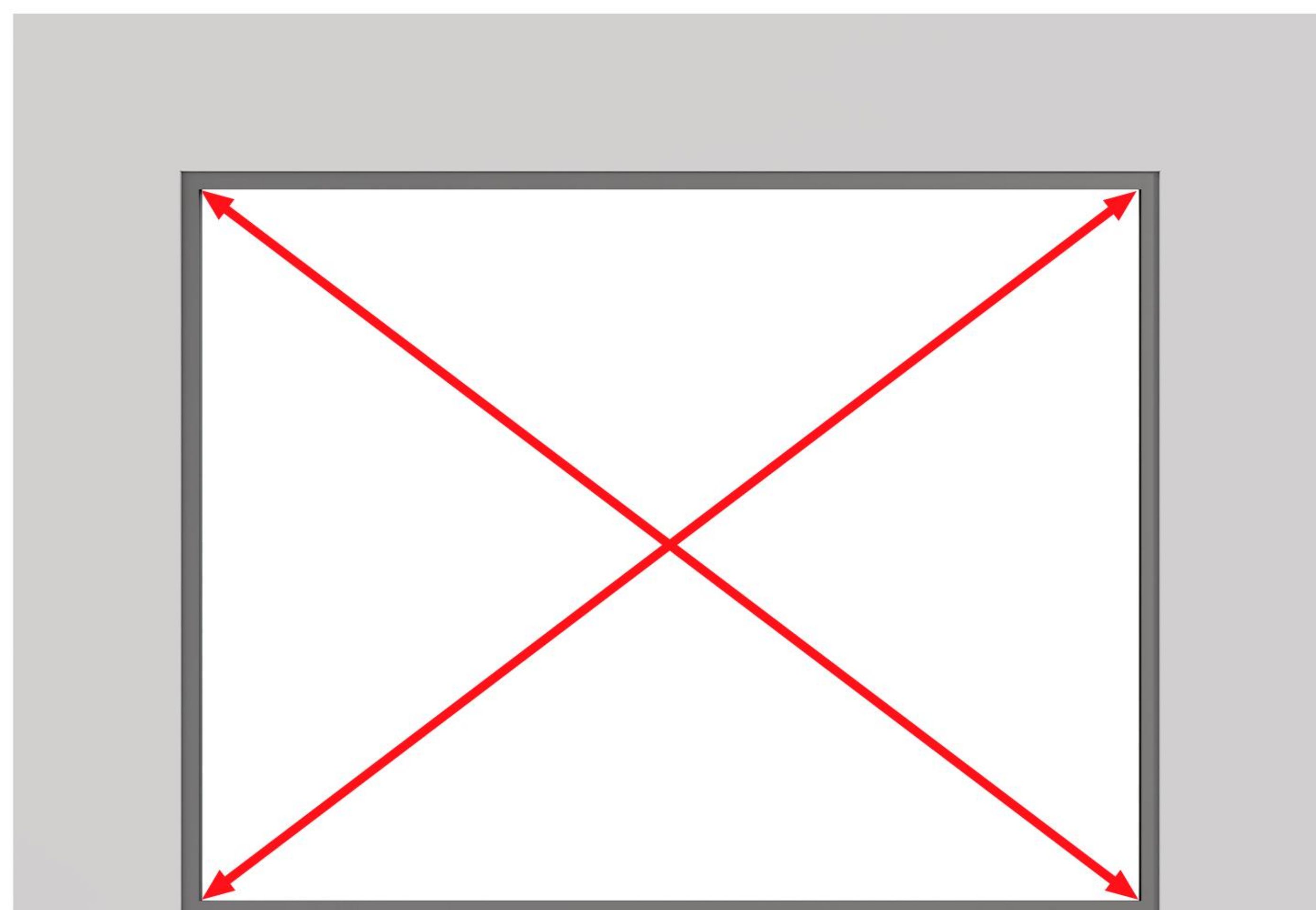
1



2

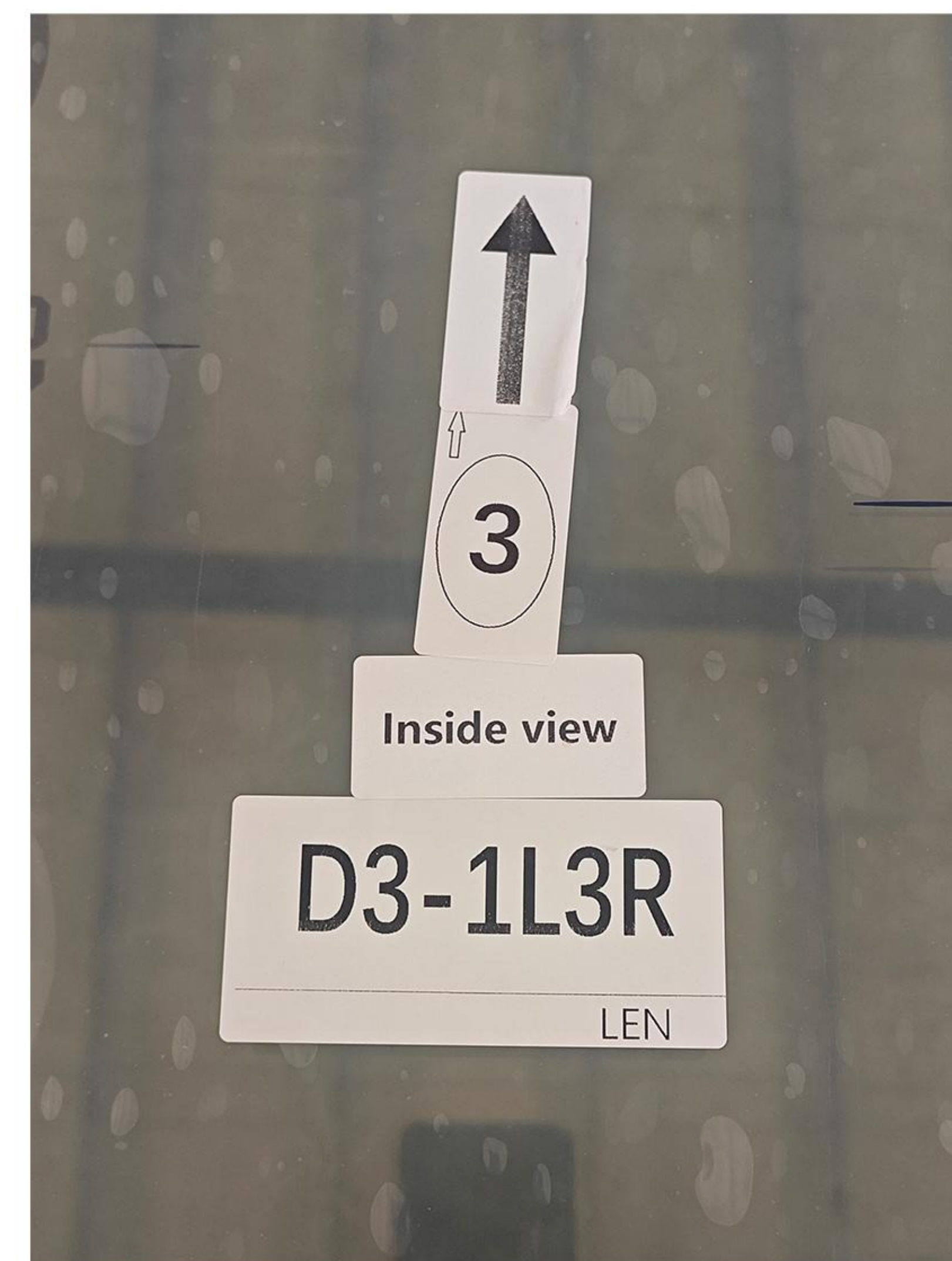
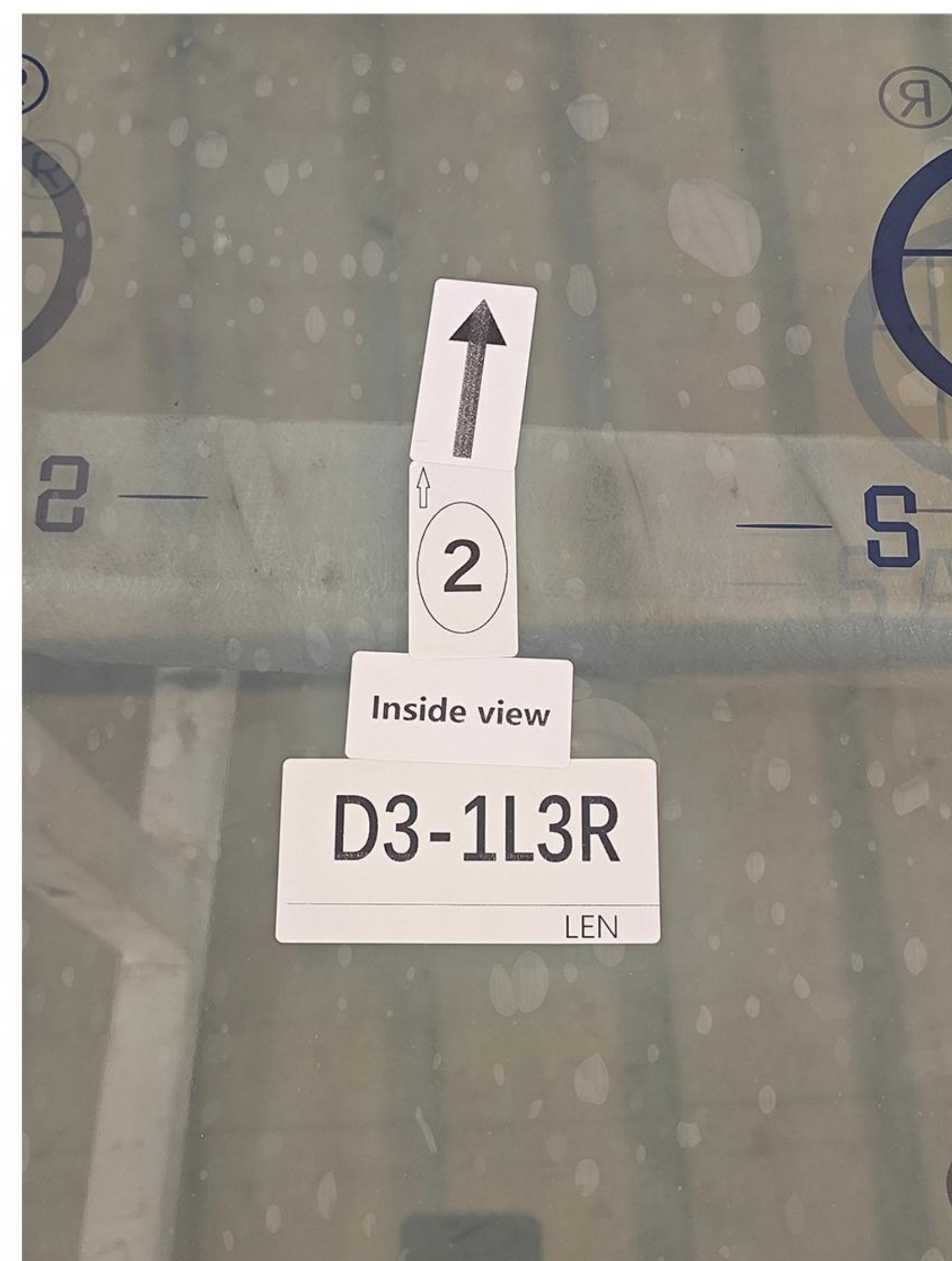


3



Recheck the outer frame level.

Separately recheck the inner height, inner width, and diagonal measurements of the outer frame to ensure they are consistent. Only proceed with the next step of installing the door panels once they are confirmed to be the same.



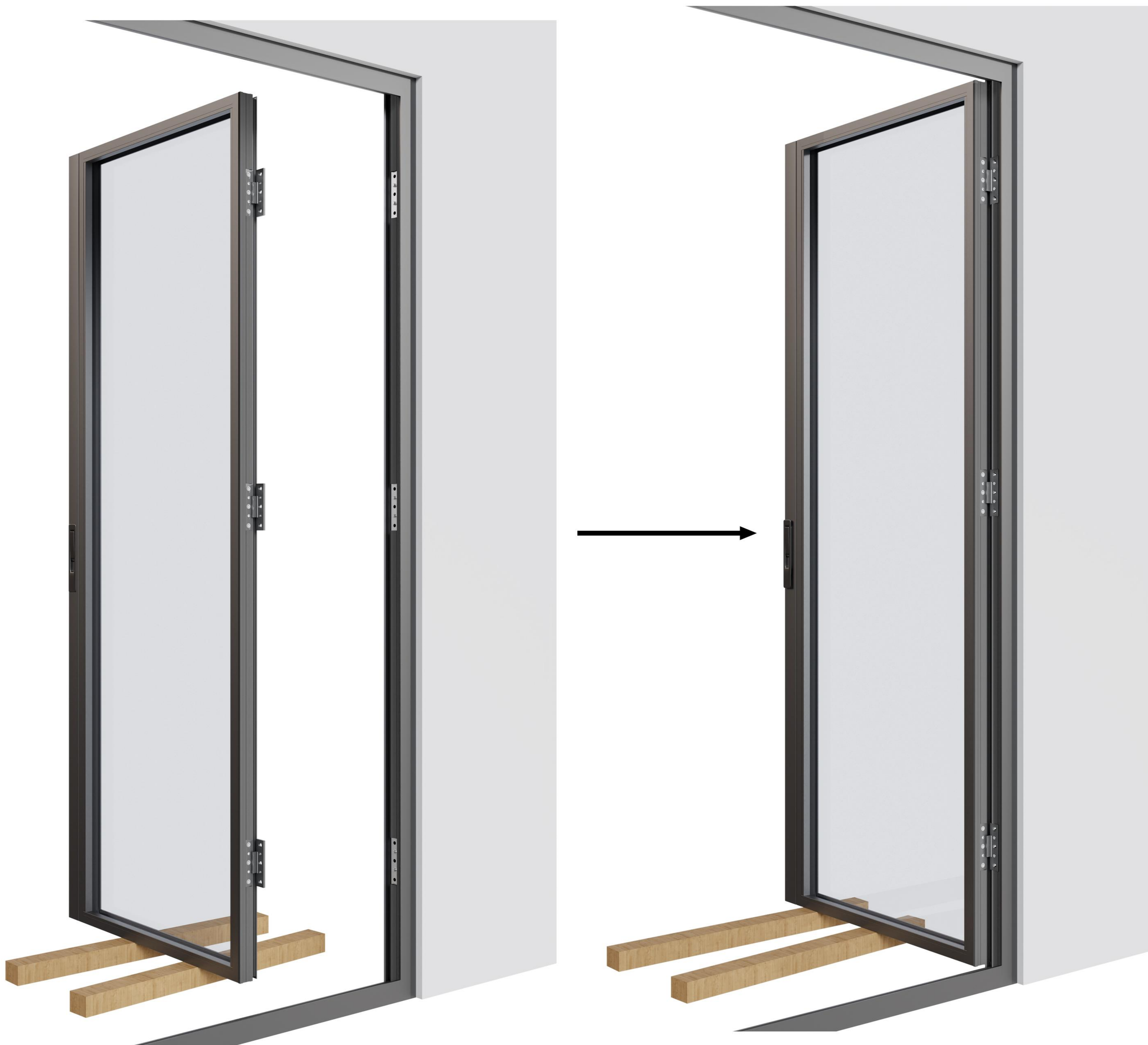
Before installing the fan, double-check the indoor and outdoor conditions.

This is a label display using actual photos of the 3+1 folding door. Each panel has a label; install them in the order of the numbers 1-2-3-4 shown on the labels, and the labels are on the indoor side.



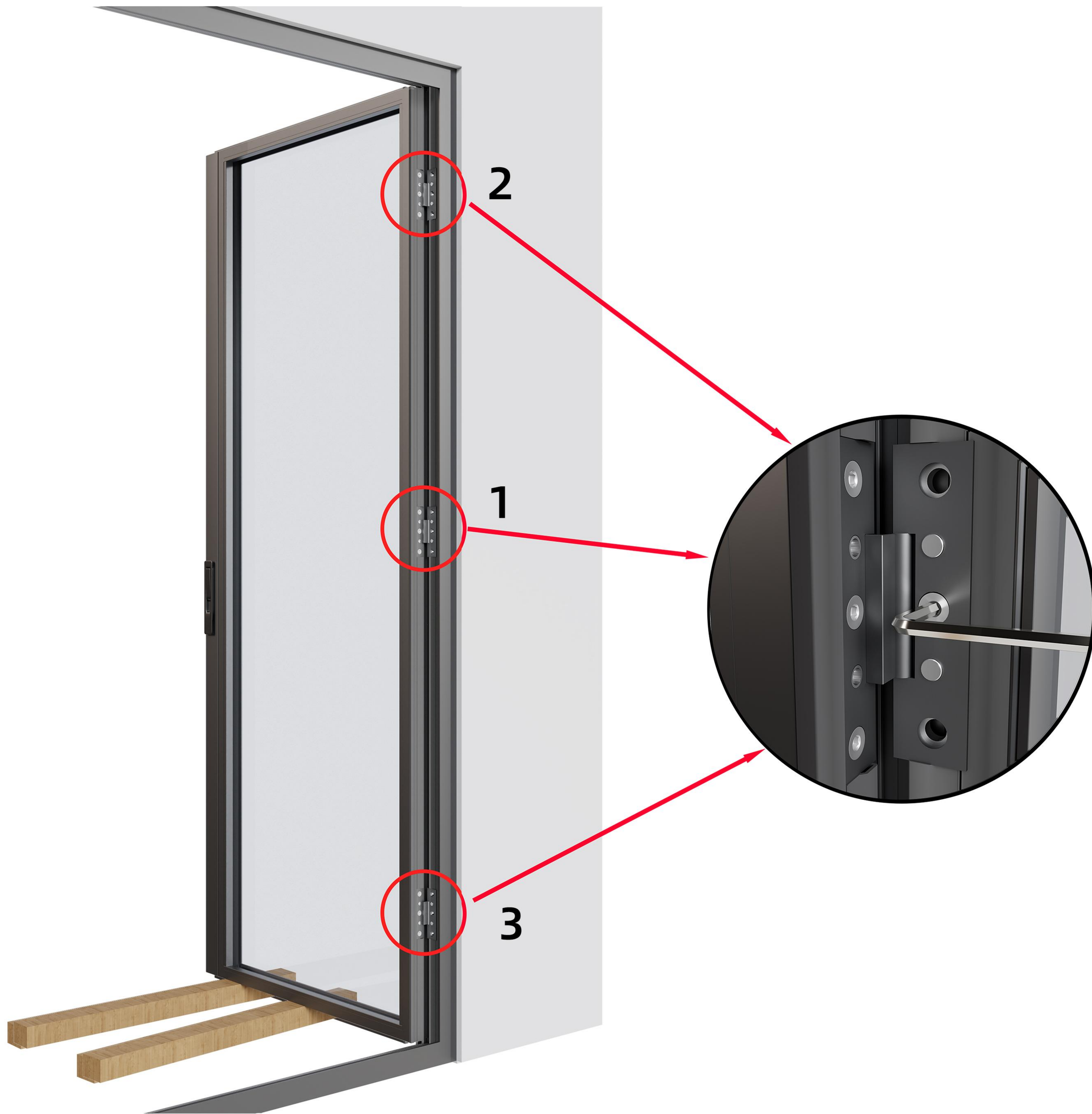
Precautions Before Installing the Panel

- 1. When installing the hinges, be careful not to press them against the weatherstripping.**
- 2. Install the center hinge first, then the top hinge, and finally the bottom hinge.**
- 3. Do not adjust the set screws - they have been pre-set. This sequence applies to every panel.**



Installing the First Panel (Interior View)

First, place the panel on wooden blocks and have someone hold it steady. Then align the center hinge of the panel with the hinge base plate on the door frame and insert it.



Installing Hinges (Interior View)

First install the center screw of the center hinge, then install the center screw of the top hinge, and finally install the center screw of the bottom hinge. (Be sure to follow the sequence described above - i.e., 1-2-3 meaning center, top, bottom. At each position in this order, install one screw first for temporary fixation and adjustment.)



Installing Hinges (Interior View)

After confirming that adjustment is correct, first install the remaining two screws on the center hinge, then install the remaining two screws on the top hinge, and finally install the remaining two screws on the bottom hinge. The first panel installation is complete.



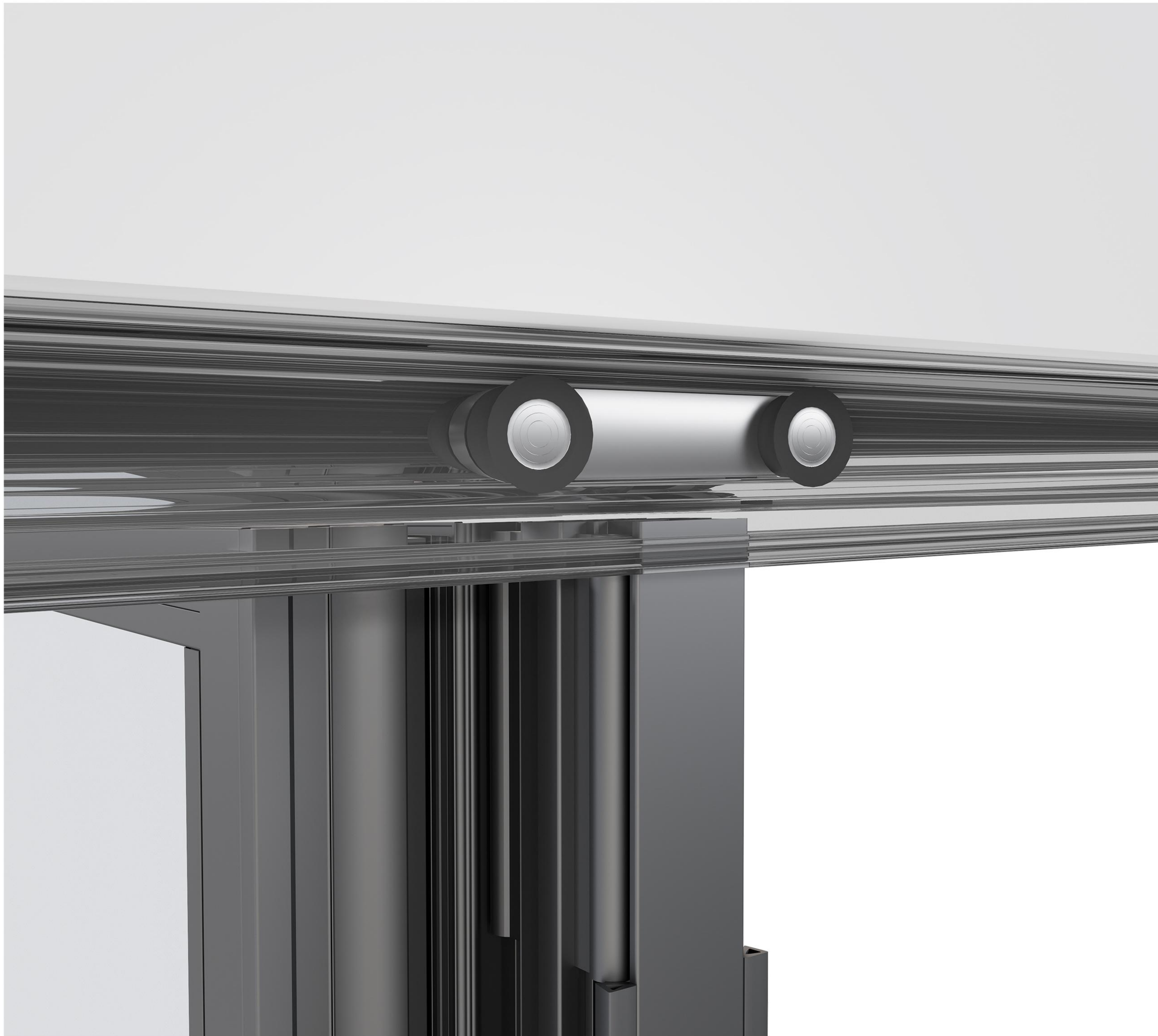
Installing the Second Panel (Interior View)

Place the panel on wooden blocks in advance and hold it steady. Tilt Panel No. 2 and align it with the bottom track below.



Installing the Second Panel (Interior View)

Place the bottom rollers of the panel onto the lower track, then align the top with the upper track and set it in place.



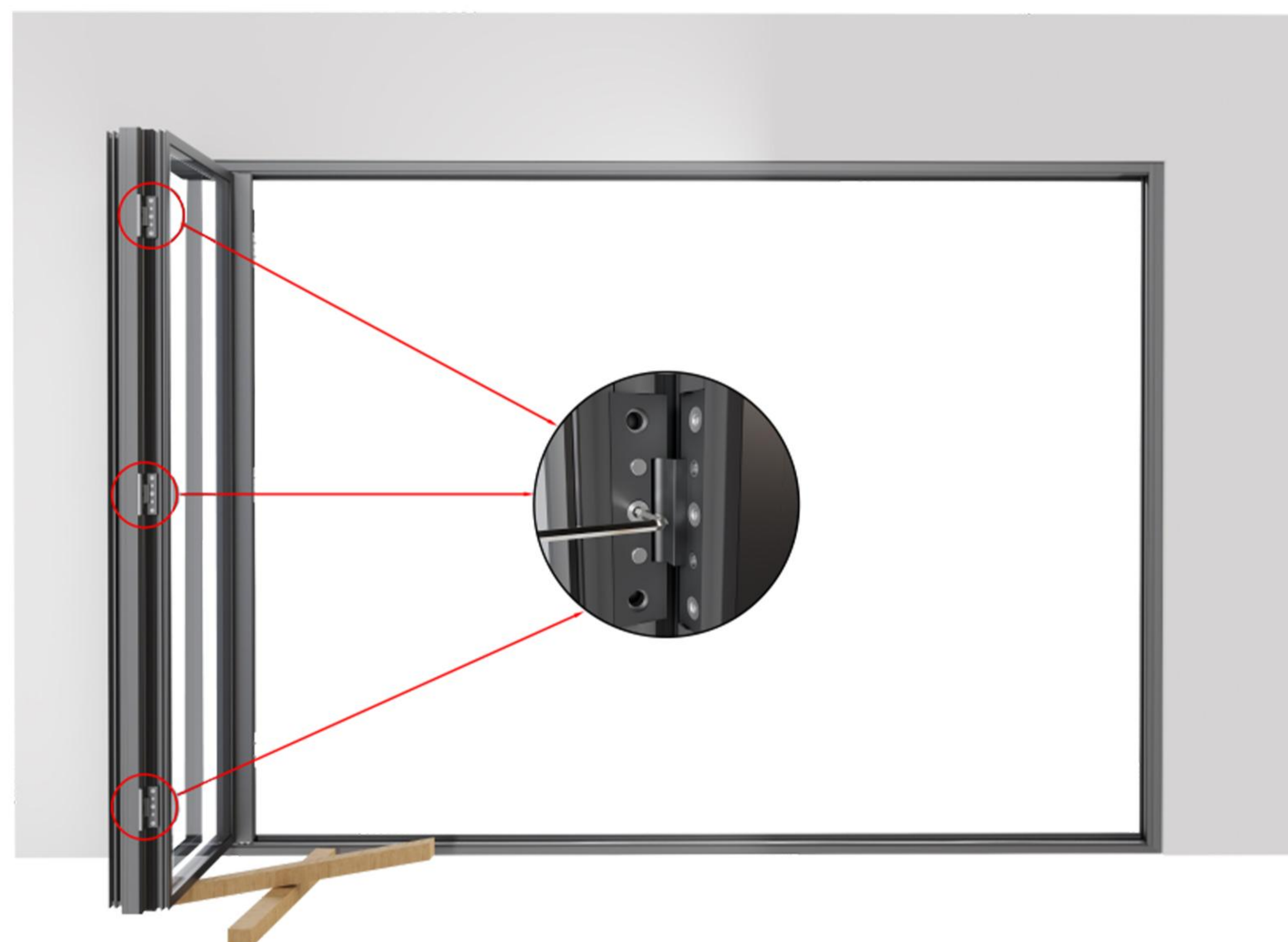
Installing the Second Panel

Slide the large roller (which is wrapped with tape on the top track) to the same position as the vertical post, aligning the bolt hole on the post with the hole under the trolley, so that the bolts can be installed easily later.

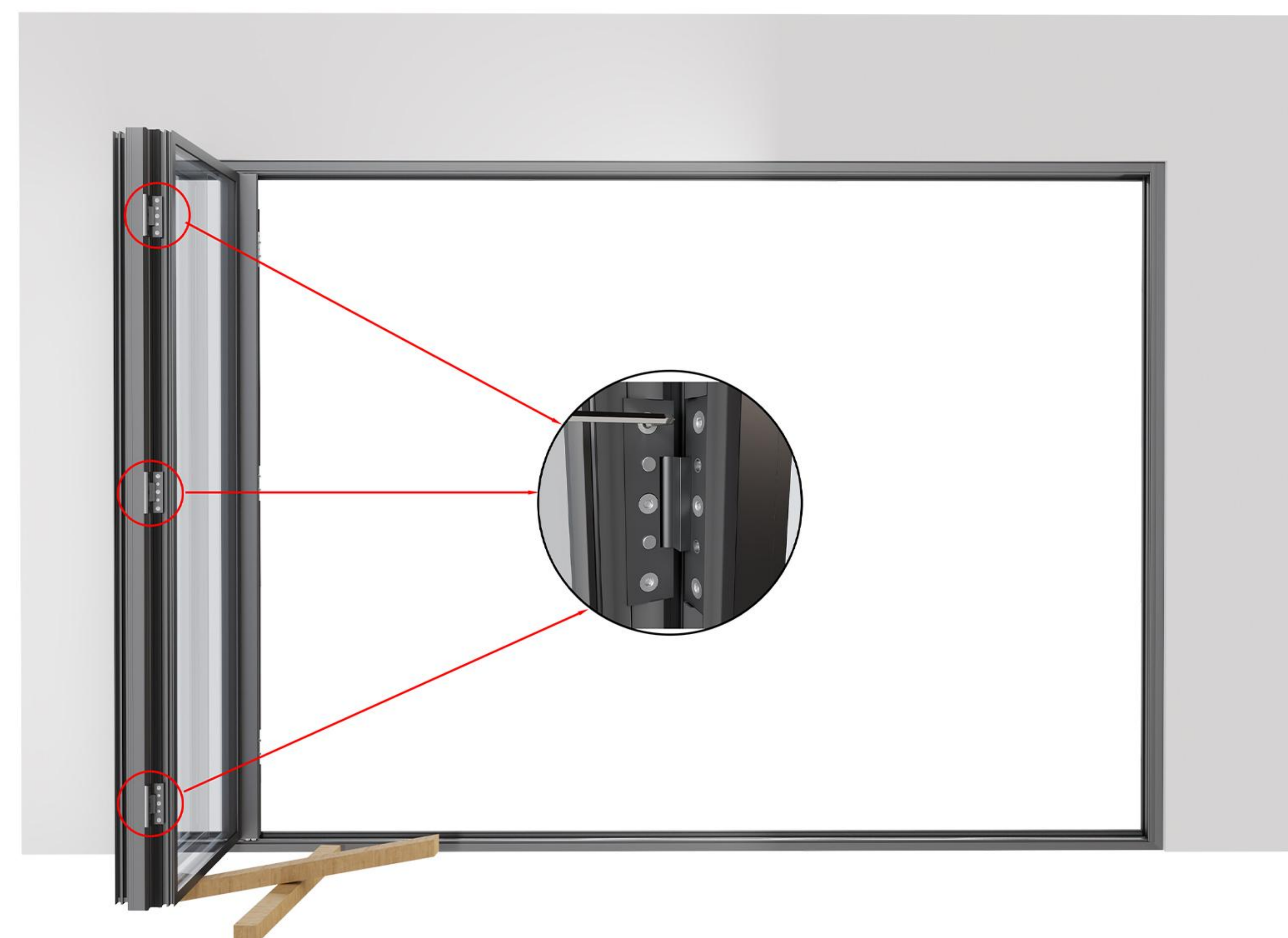
1



2



3



Installing the Second Panel (Exterior View)

Pull the two panels together until they are perpendicular to the track, and use wooden blocks to keep them level horizontally. Install the hinge screws in the same manner as for the first panel: first install the center screw of the center hinge, then the center screw of the top hinge, and finally the center screw of the bottom hinge. After confirming that adjustment is correct, install the remaining two screws (top and bottom) on each hinge, following the same order - center, top, bottom.



1



2

Installing the Second Panel

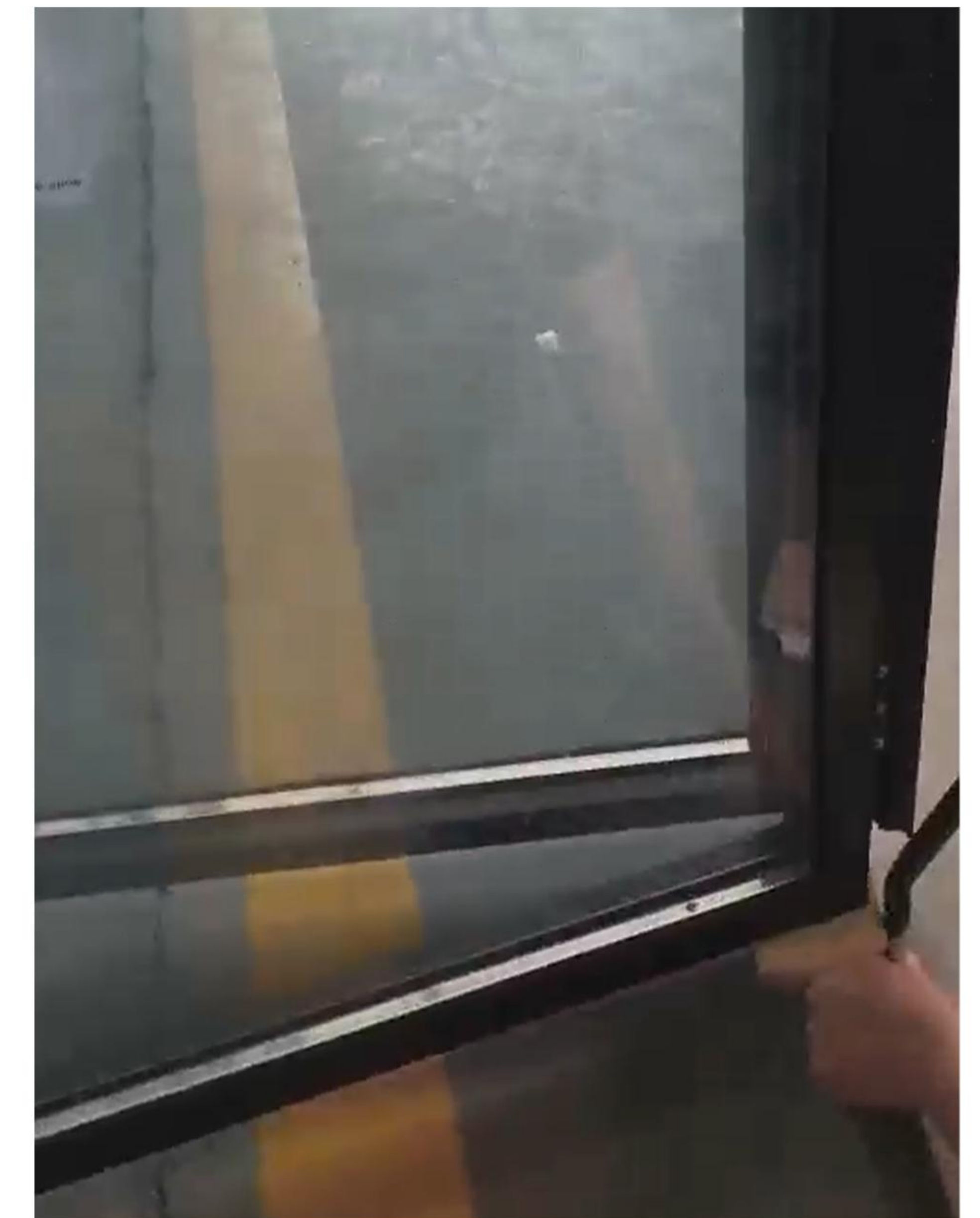
To install the trolley, first pry open the weatherstrip, then insert the bolts. After the weatherstrip is opened, install the bolts into the large trolley in the track. Install the left and right long bolts one after the other. Do not tighten them too much; once the door is properly adjusted, it is fine. (For clarity of the bolt-to-trolley installation, Figures 3 and 4 do not show the top track.) If the door is difficult to install while suspended, you can use a shim to gently pry it up for assistance, as shown in Figure 5.



3



4



5



Installing the Second Panel

After confirming that the door opens and closes without issues, install the small screws on the left and right sides one by one.





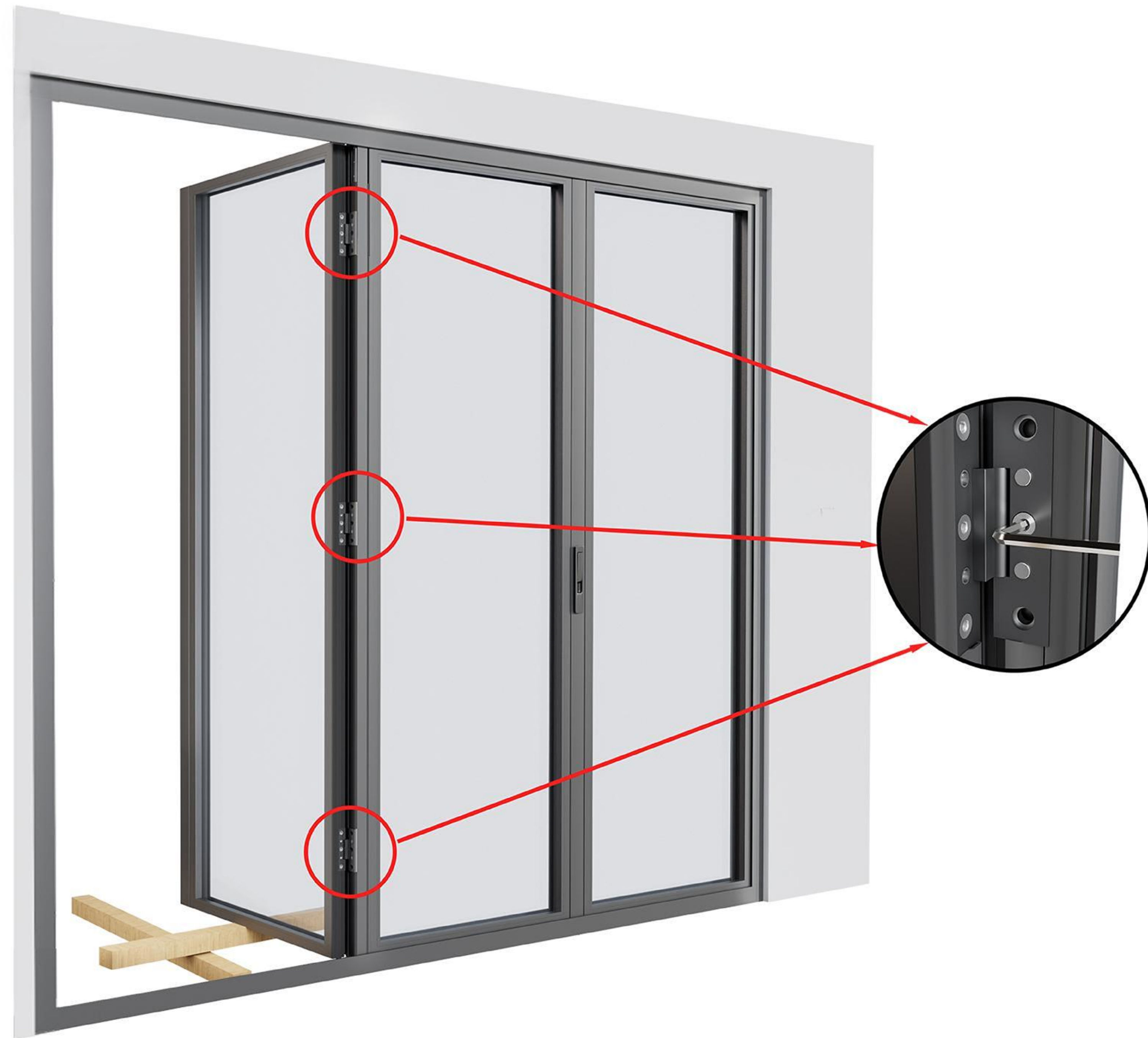
Installing the Second Panel

After installation, put the pried-open weatherstrip back in place.



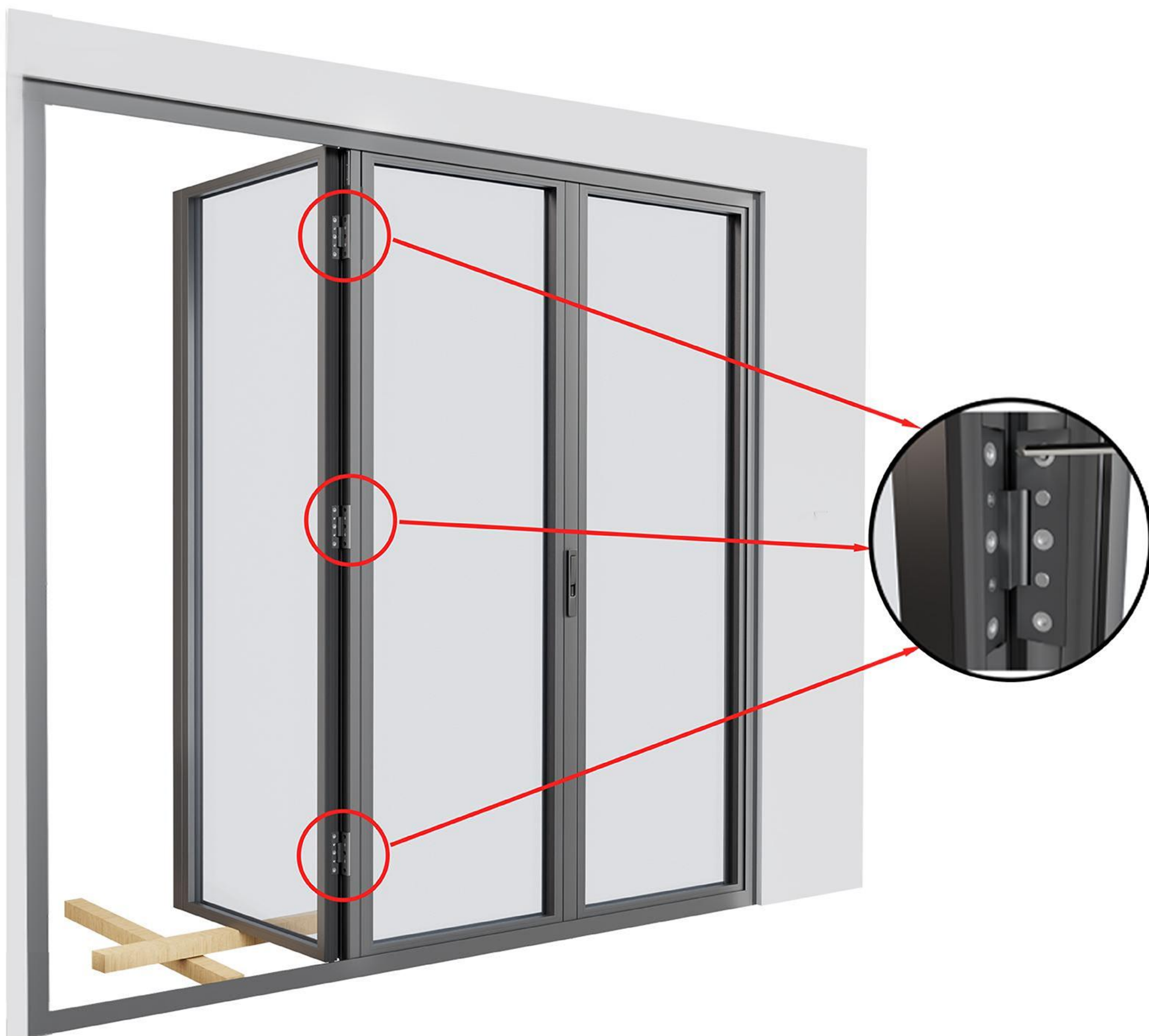
Installing the Third Panel (Interior View)

Place the third panel on wooden blocks in advance and have someone hold it steady.



Installing the Third Panel (Interior View)

First position the bottom of the panel in place, then align the center hinge of the panel with the hinge base plate on the door frame and insert it. After alignment, follow the same hinge installation procedure as for the previous panels, installing the hinges in the order of center, top, and bottom.

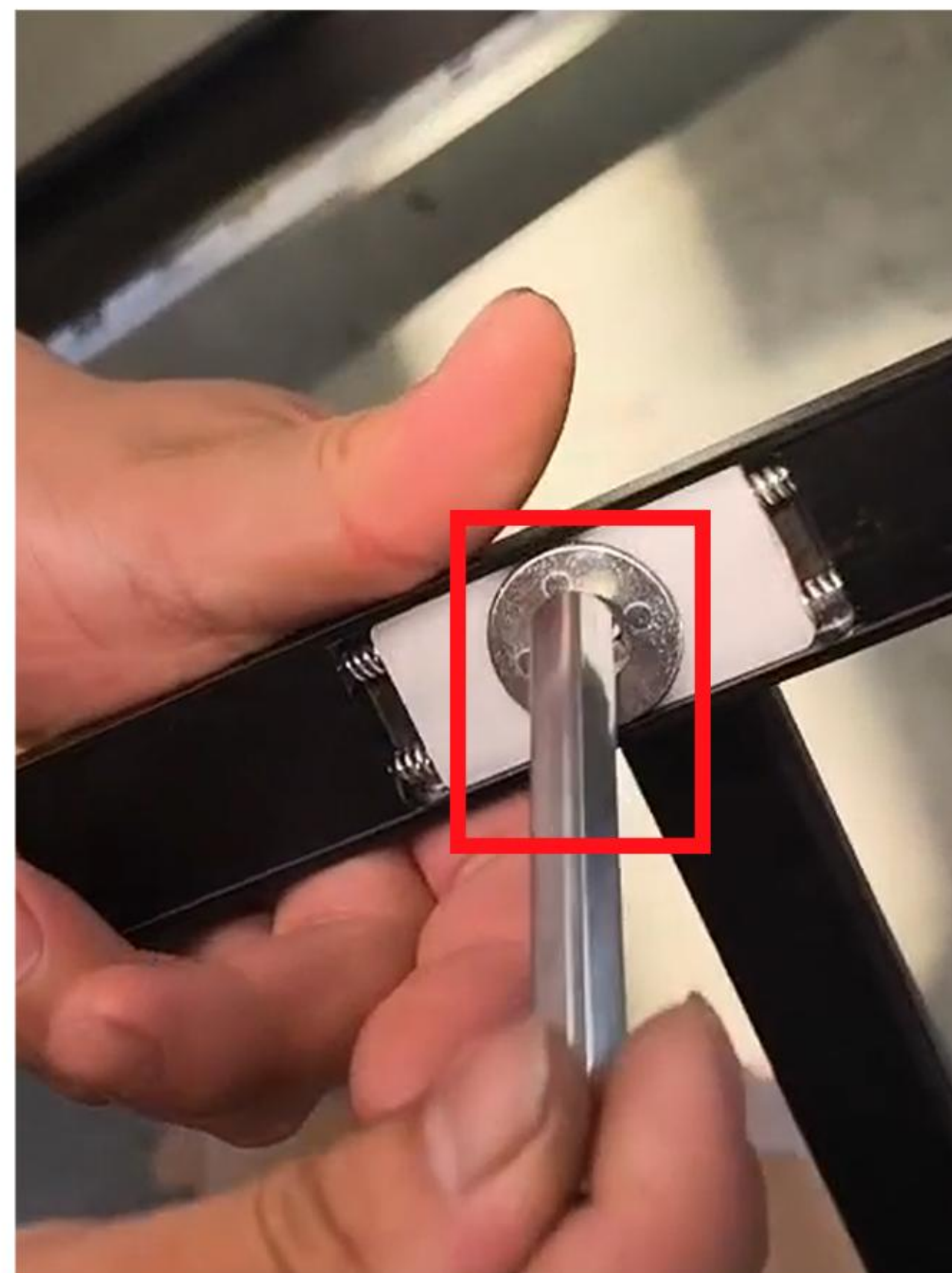




1



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3



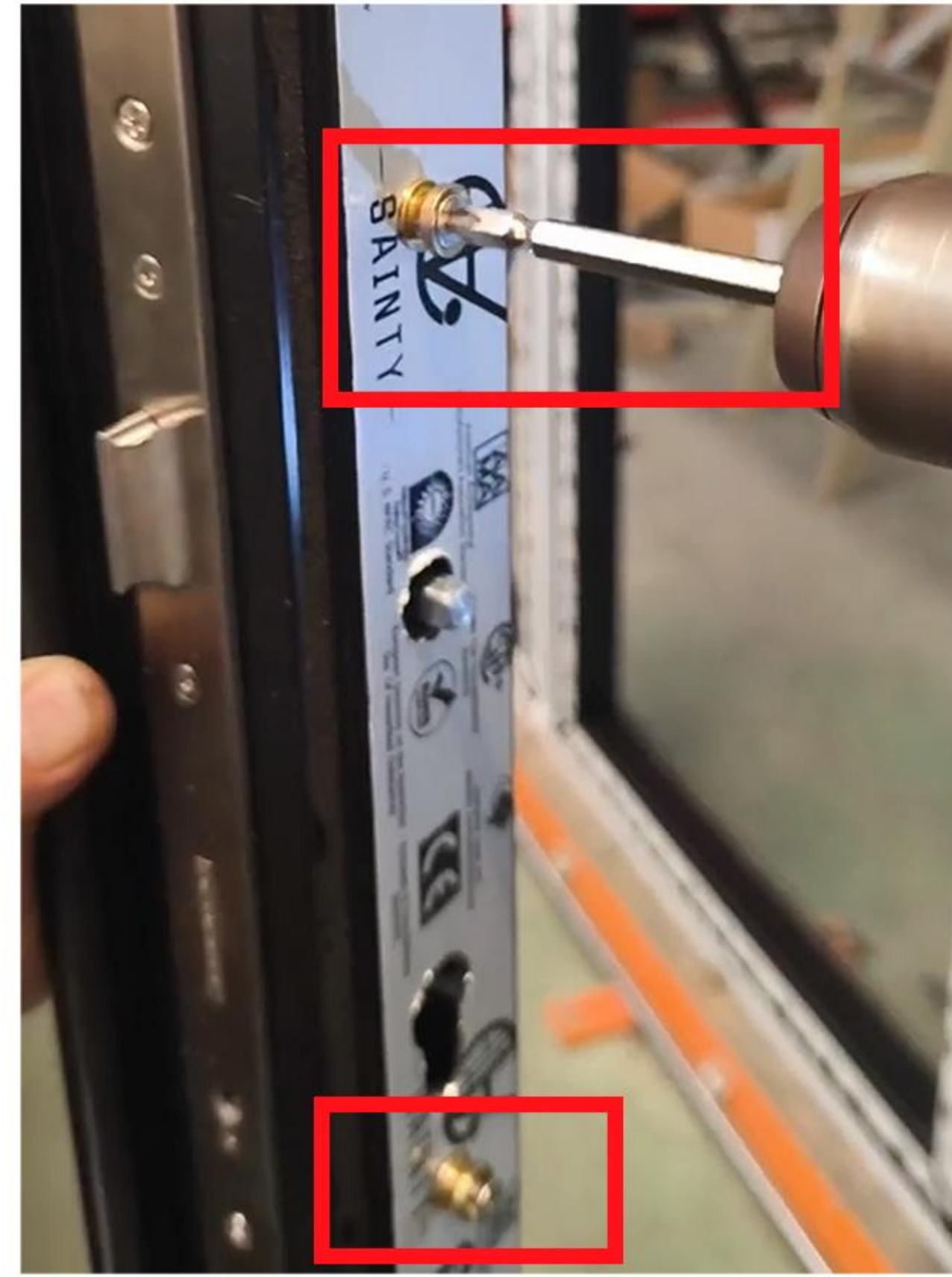
4



5



6



7



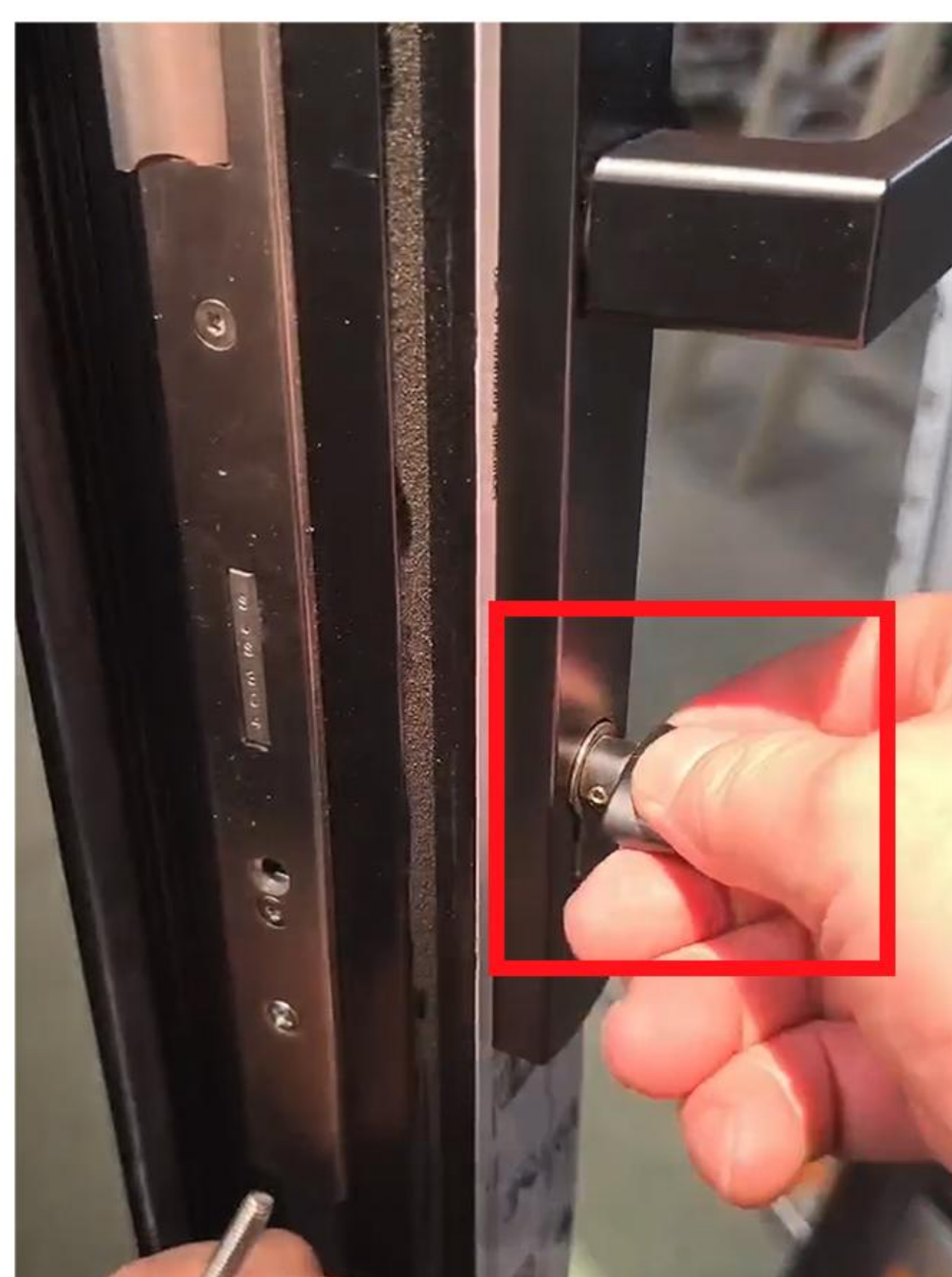
8



9



10



11



12

Installing Indoor and Outdoor Door Handles

Step 1 (Corresponding to Nos. 1 and 2):

Follow the numbered sequence. First, place the long screws into the threaded holes and lay them flat.

Step 2 (Corresponding to Nos. 3 and 4):

Then insert the square spindle into the hole on the outdoor handle, and align the outdoor handle with the outdoor panel profile before inserting it.

Step 3 (Corresponding to Nos. 5, 6, and 7):

Install the assembled screws into the upper and lower holes on the indoor panel profile, and tighten them with a tool.

Step 4 (Corresponding to Nos. 8, 9, 10, and 11):

Insert the indoor handle into the indoor panel profile, tighten the upper and lower set screws with a tool, then insert the lock cylinder and turn it horizontally until it stops.

Step 5 (Corresponding to No. 12):

Finally, install the side machine screws, and test the handle operation; if it works properly, the installation is complete.



Installing the Strike Plate (Male Strike Plate)

Place the male strike plate at a distance of 50-60 mm (1.97-2.36 inches) from the top frame (as shown in Figure 1). The horizontal placement distance should be about 5 mm (0.197") from the start of the gap (as shown in Figure 2). Then drill holes and install two screws (Figure 3).



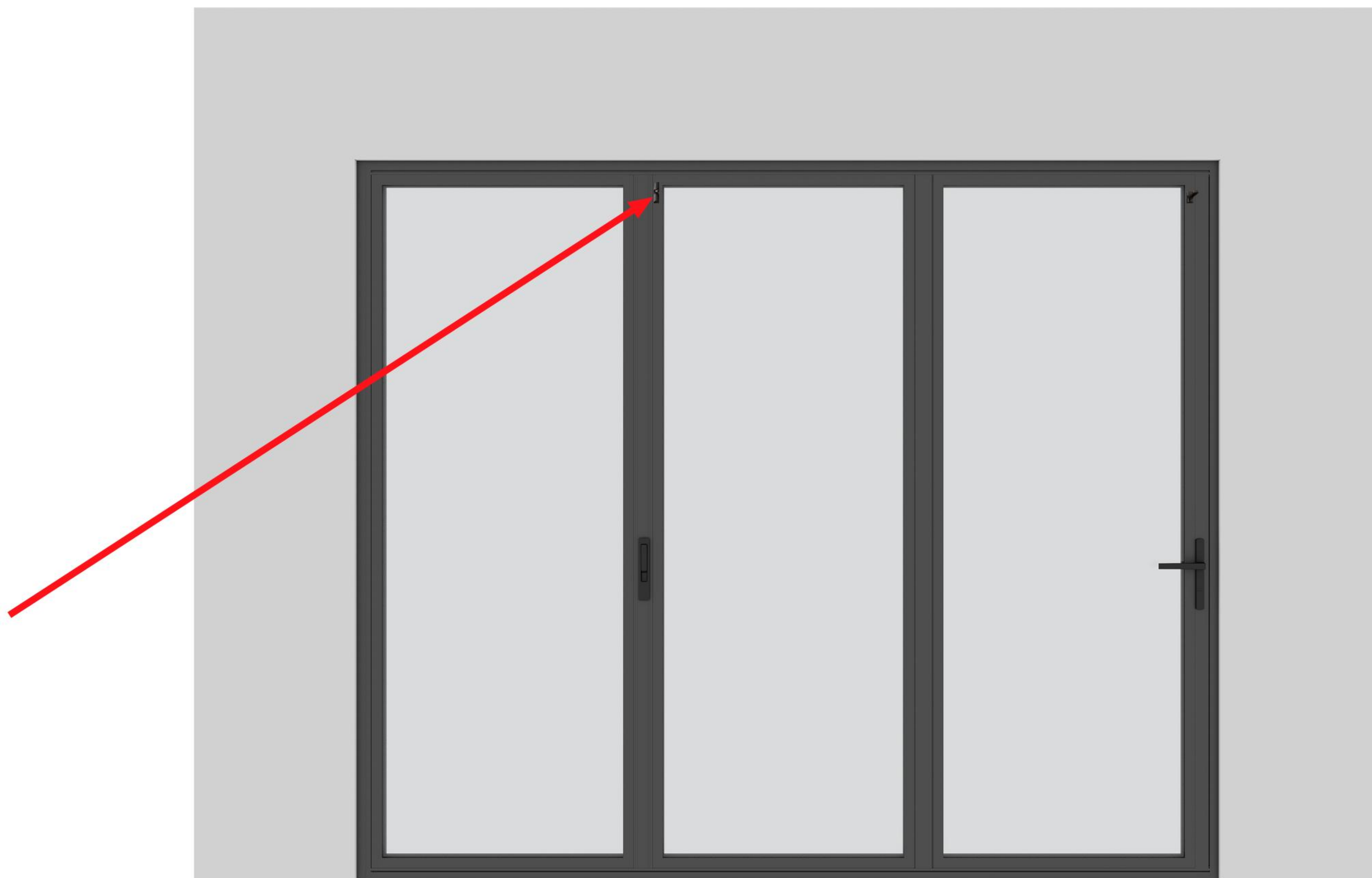
1



2



3



Installing the Strike Plate (Female Strike Plate)

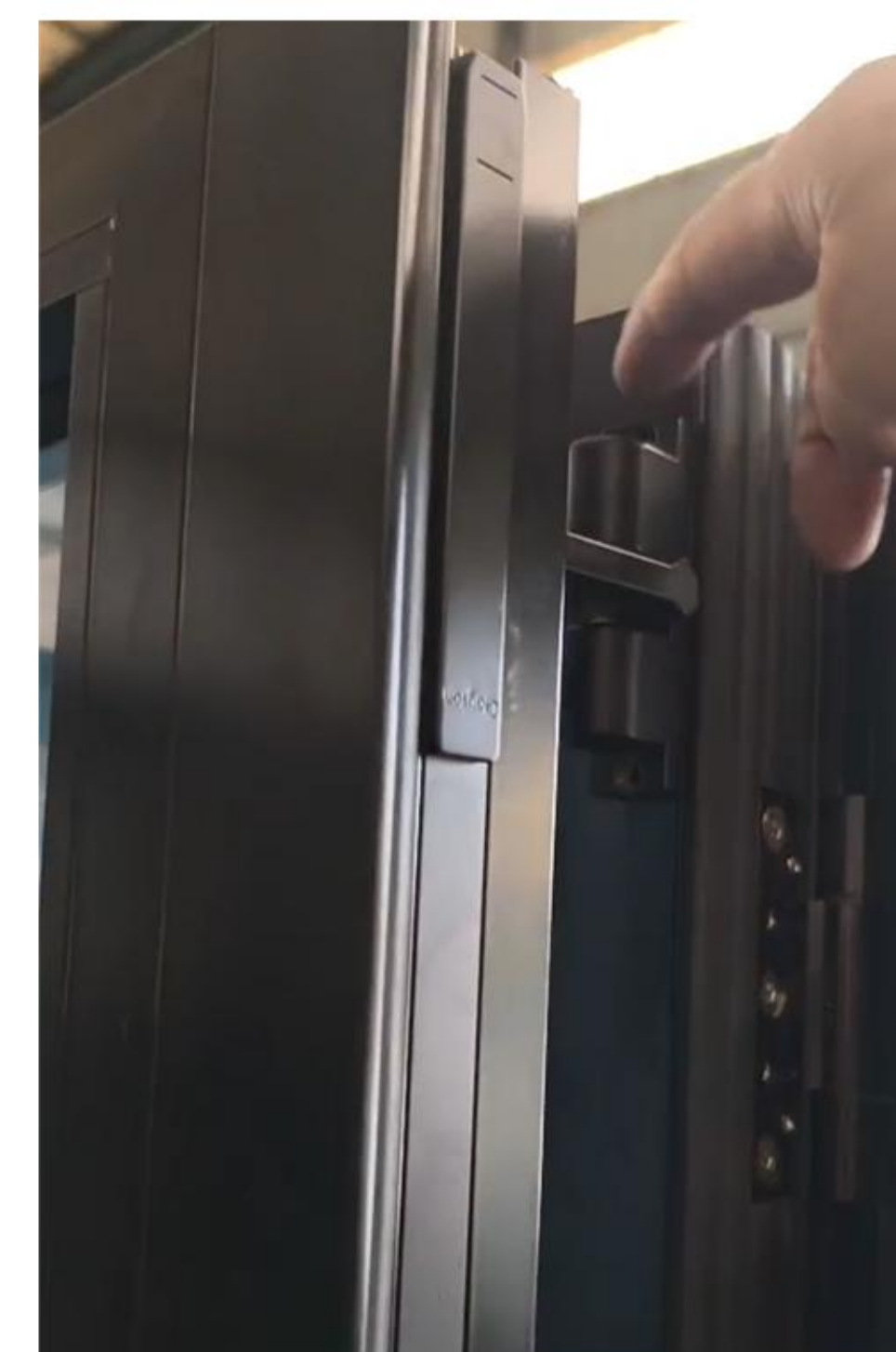
When installing the female strike plate, make sure the door is open (Figure 1). Fit the female strike plate over the male strike plate (Figure 2), then position it against the door panel (Figure 3). Mark the location on the door panel with a pen, drawing lines along the top, bottom, and vertical edges of the female strike plate to determine its exact position (Figure 4). Press and hold the female strike plate with your hand while opening the door panel (Figure 5), then drill holes and drive screws through the female strike plate (Figure 6).



1



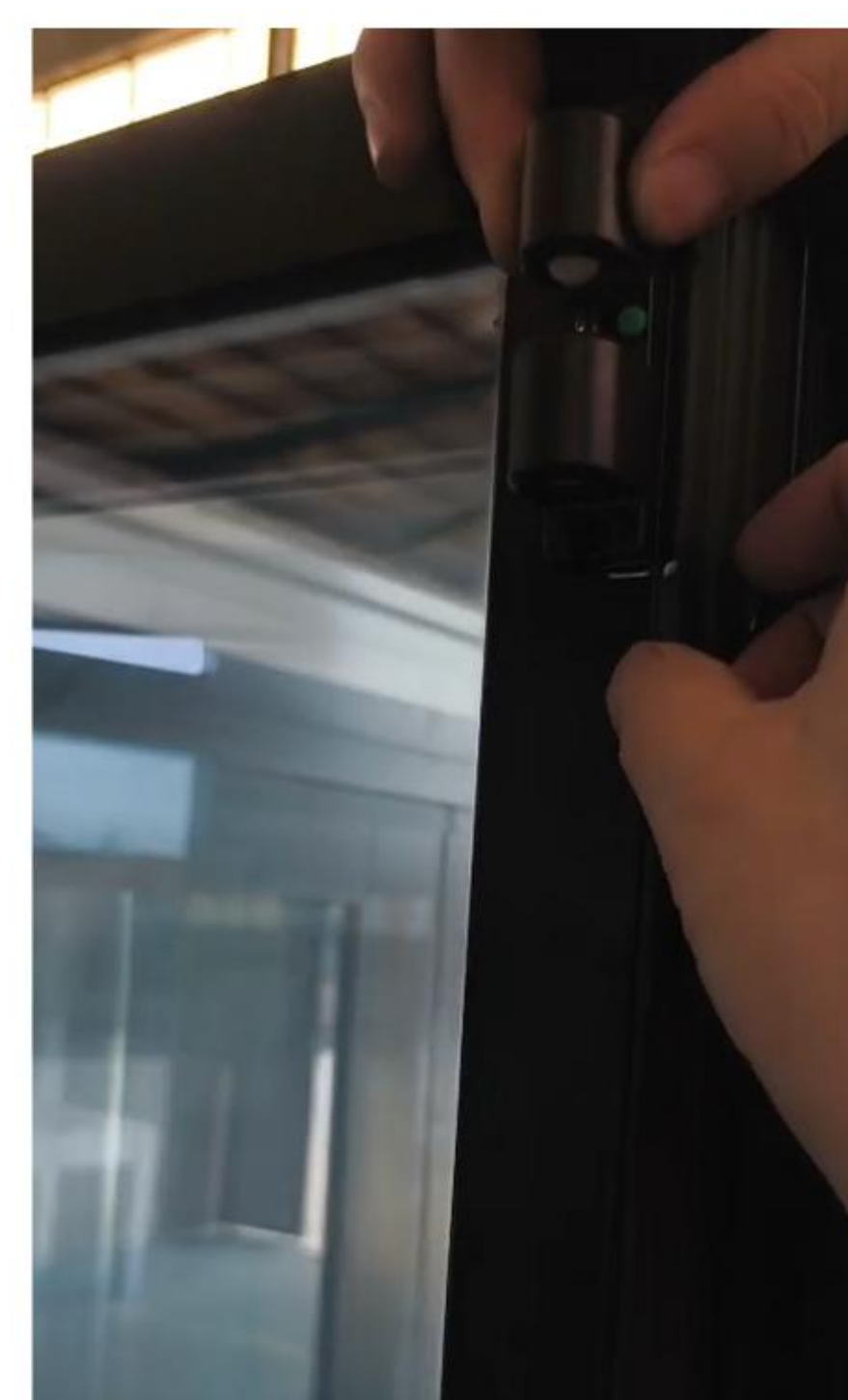
2



3



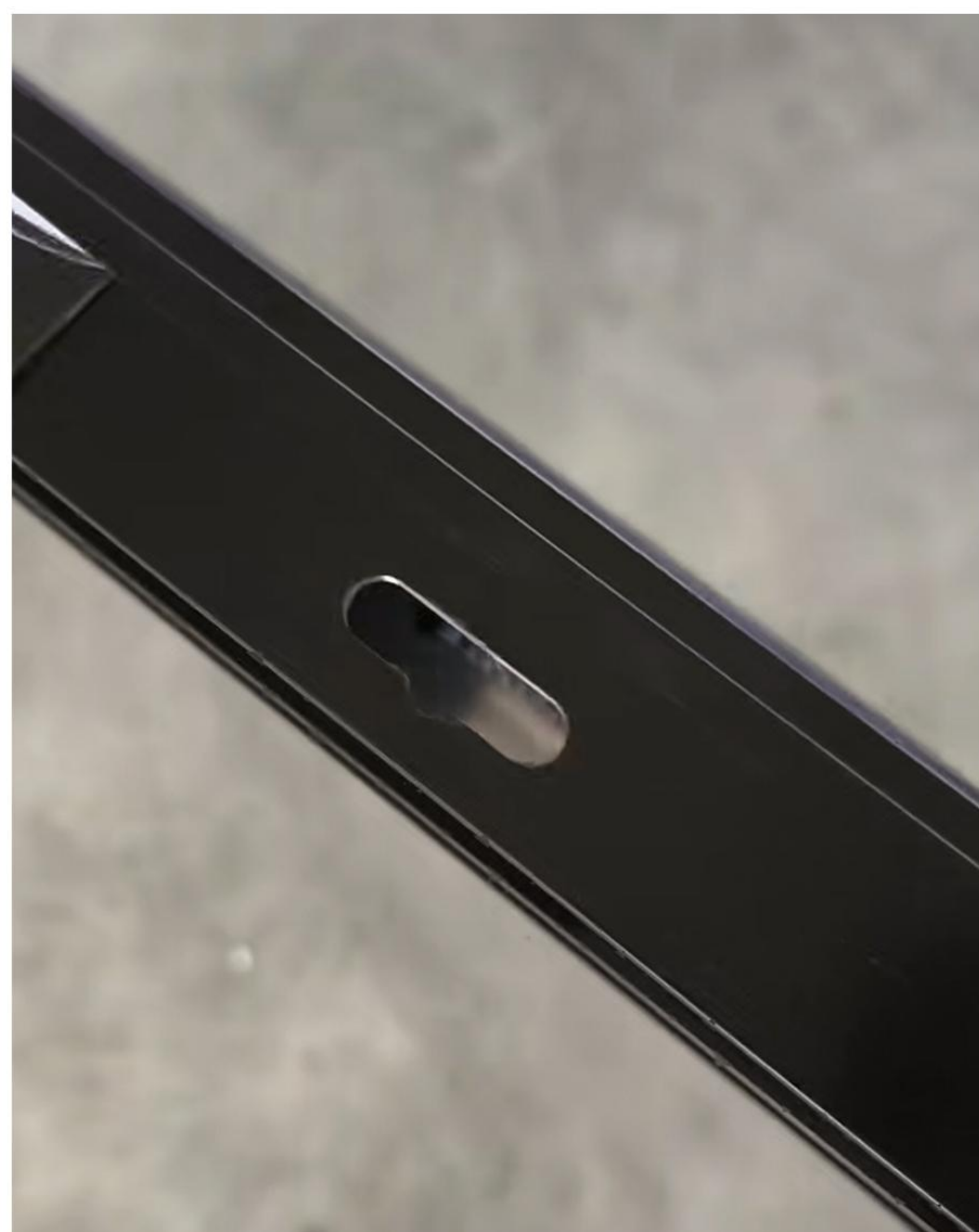
4



5



6



1



2



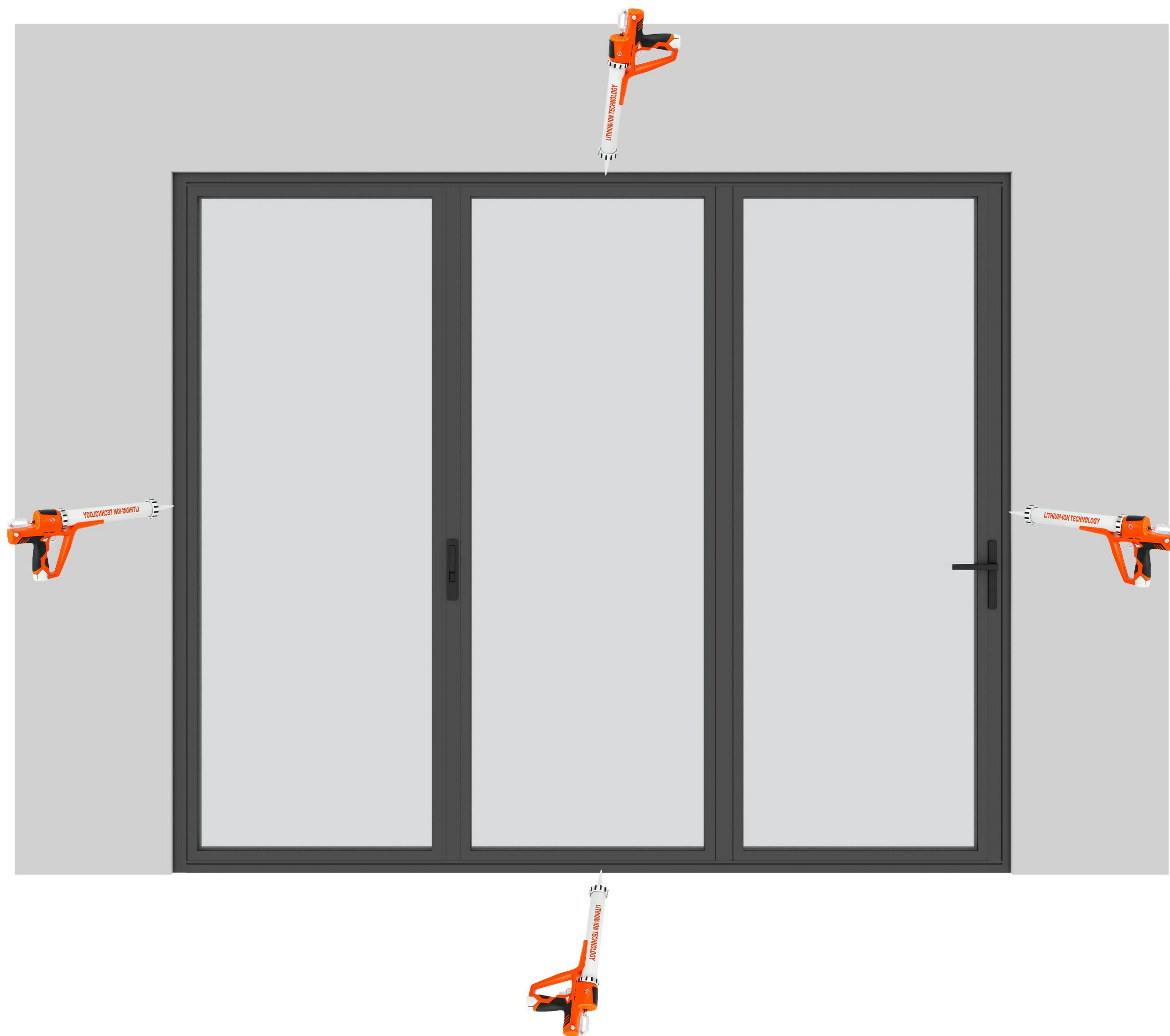
3



4

**Installing the Drain Cover on the Bottom Frame
(High-track version requires on-site installation)**

Make sure not to install the drain cover upside down. In Figure 2, the water-deflecting fin should face the bottom. During installation, pay attention to the hooks shown in Figure 3: first hook one side, then pull it back and hook the other side, and press it down (Figure 4).



Applying Sealant to the Outer Frame

After all installations are completed and adjustments are confirmed to be correct, apply sealant to the gaps between the outer frame and the wall on both the interior and exterior sides. Be sure to wait until the sealant has fully dried before opening or closing the door.