

Installation



Euro Style Restroom Partitions Glass – Skyline Series, Floor-to-Ceiling

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Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance, and troubleshooting information.

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3539).

Product warranties and parts information may also be found under “Resources” on our website at bradleycorp.com.

Safety Information

Warning

Before beginning installation, make sure that the wall and floor backing are adequate to support the secure mounting of the toilet compartment units.

Partitions are extremely heavy and requires more than one person to position and install.

Failure to comply with these instructions may result in personal injury and/or property damage and will void the partition warranty.

Floor to ceiling Skyline Partitions are considered a closed room. Ensure you have proper ventilation, lighting and fire protection. Consult local Authority having Jurisdiction (AHJ). These safety measures are not provided by Bradley.

Caution

Personal protective equipment (PPE) is required during the installation and maintenance of this product.

Notice

Make sure all floors and walls are clean and smooth. Remove loose impediments, such as protruding nails and other debris which could affect installation.

Carefully remove components from skid, do not drag.

Important

Review your partition layout drawings and verify the number of stalls and components before beginning installation.

Read this installation manual completely to ensure proper installation, then file it with the owner or maintenance department. This installation manual provides instruction for the assembly of normal partition configurations and standard components. Non-standard configurations or components including but not limited to curved or angled walls, notched walls, partial walls, oversized panels, or modified hardware may not be covered in this manual. Compliance and conformity to local codes and ordinances is the responsibility of the installer.

Separate parts from packaging and make sure all parts are accounted for before discarding packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

Tools and Supplies Required

- Angle grinder or wet drill with 10 mm drill bit + jig
- Cordless drill/screwdriver
- Miter/chop saw with metal cutting blade
- 4D laser level
- Standard level
- Standard tools
- Plastic or wood shims
- Caulking gun (preferably battery powered)
- Acetone or isopropyl alcohol
- Rubber gloves
- Shop towels or rags
- Painters tape
- Angle grinder with metal cutting wheel
- Metric drill bits
- Metric socket set with ratcheting driver
- Metric tape measure
- Metric Allen key set
- 8 mm open end wrench
- Suction cups
- HB45 construction adhesive or equivalent such as Sikaflex 552 or Wurth Bond and Seal

1 Marking the Elevation Centerline Locations

A

Use a 4D laser level and tape measure to locate the highest point of the floor and the lowest point of the ceiling. The vertical wall brackets are to be 35 mm shorter than the largest FTC dimension.

The system has built-in tolerances to accommodate 3 mm lower on the floor and +/-10 mm higher on the ceiling.



If tolerances are more than 10mm at the ceiling, you will need modify by placing spacers between the ceiling and the bracket to properly level. Same for the floor if it is less than 3 mm lower.

B

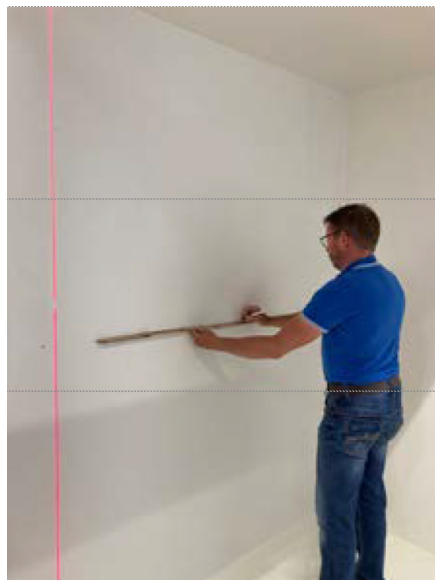
Start the installation with the minimum FTC dimension located from Step A. Make sure this minimum FTC dimension is greater than the glass panels ordered.



If this dimension is smaller, DO NOT PROCEED. You'll either need to adjust the ceiling or reorder the materials, which may include panels, pilasters, and doors.

C

Mark the centerline and the edges of the vertical wall brackets, the floor brackets, and the ceiling brackets. These dimensions are all listed in the enclosed production drawings. Use the 4D laser level to transfer the dimensions to the ceiling.



2 Attaching U-Brackets for Dividing Panels and End Panels

After all dimensions are determined, attach the 30/30/30/2mm U brackets. Trim the upper bracket to extend from the back wall to the center line of the front wall. The bracket for the center wall is notched at the front.

A The dividing panel ceiling brackets must be trimmed to leave a 15 mm gap between the dividing panel ceiling bracket and the front wall ceiling bracket. Cut the bracket on the non-notched side to allow for this 15 mm gap.



B Attach ceiling brackets for the dividing panels and any outer walls (example, outerwall for a corner installation). The bracket for the dividing walls will be notched at the front. The dividing wall ceiling bracket needs to be cut onsite 15 mm shorter than the overall dimension. Cut the bracket on the non-notched side.



C The headrail bracket will be 30 mm longer than necessary to allow for modifications as needed. For corner installations, the headrail bracket will need to be cut with a miter to meet with the outermost wall ceiling bracket. Measure and cut the ceiling bracket as necessary. The front wall headrail bracket needs to be temporarily installed only and removed after all brackets are measured, cut, and installed. You have to remove the headrail bracket in order to install the dividing wall frames.

On certain layouts you may have a corner type partition configuration with outer wall(s).

D The ceiling bracket(s) for the outer wall(s) corner installation are mitered at one end. Depending on the backing material used in the ceiling, mount the brackets with provided countersunk 5.5 x 70mm screws with sheetrock anchors. If there is adequate backing material in ceiling, the sheetrock anchors are not needed.

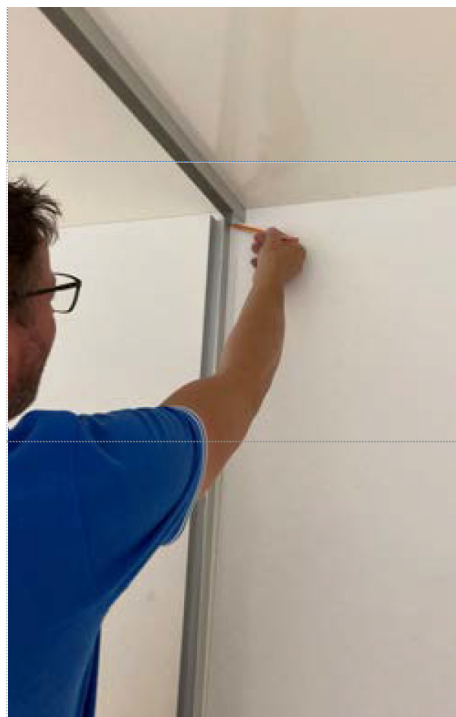
E

Place the vertical 30 x 30 x 30 mm wall brackets against the wall with one end against the floor. Next, mark the top end with the exact length where the top of the wall bracket intersects with the bottom of the ceiling bracket. Cut this bracket to fit between the floor and the upper bracket.

Remember, if the floor is not level, you need to appropriately shim the floor bracket and mark the spot on the wall where the bracket will be.

F

Mark the holes for the floor brackets and front wall brackets. Drill holes. Temporarily install so you can get dimensions for all brackets. You'll need to remove in order to install the dividing panels.

**G**

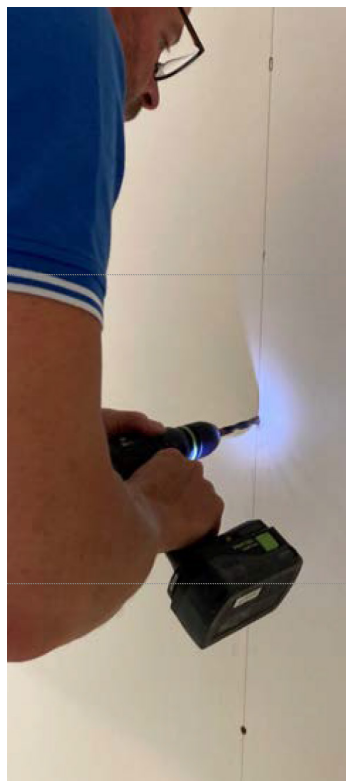
Mark the walls through the holes in the wall brackets. Using an 8 mm drill bit, drill at least 70 mm deep.



It is helpful to number the brackets and their corresponding location to keep them matched up with the holes you drill.

H

When drilling these holes, be careful of hidden obstructions. Attach the brackets using the 8x50mm anchors, 5.5x70mm countersunk screws, and washers.



3 Installing the Floor Brackets

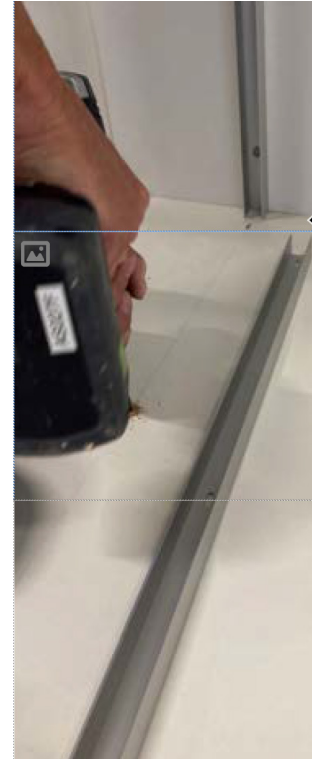
A The floor brackets for the dividing wall(s) are notched at the front. These brackets need to be cut 12.5mm shorter than the centerline of the front wall. Trim brackets at the non notched edge.



Do not install the floor brackets for the front wall yet. That will be done in a later step.

B For end panel locations, the front wall floor bracket will be mitered at a 45 degree angle to fit an opposing 45 degree miter on the outer most wall floor bracket. Outer wall floor brackets (if any based on project layout) [Dimensions 30/30/30/2]. These brackets are to be cut to the exact size of the space with a mitered end mating up with a mitered end on the front wall U-Channel floor bracket.

C Attach these floor brackets to the floor by pre-drilling 45 mm deep holes using a 6 mm drill bit. Use the 6 x 35 mm anchors, and 4.8 x 38 mm countersunk screws and washers to attach. Use spacers if necessary to make floor bracket perfectly level.



4 Inserting the Dividing Wall Frames

A The dividing wall frames will be dimensionally identical with one edge being recessed/grooved to receive the back wall bracket. Slide the dividing wall frame onto the brackets ensuring it properly seats onto the back wall bracket.



B Repeat this process with the second identical frame in the same orientation with the recessed/grooved edge entering first. Mate the two frames together. The height adjustment will be done in a later step.



5 Installing Ceiling Brackets for Pilasters and Headrail Bracket

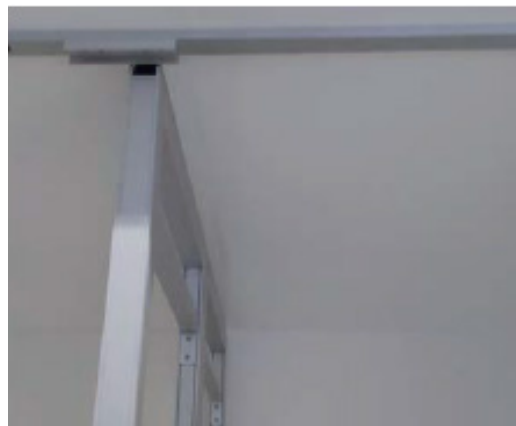
A The headrail bracket will be 30 mm longer than necessary to allow for modifications as needed. For corner installations, the headrail bracket will need to be cut to meet with the outermost wall ceiling bracket. Measure and cut the ceiling bracket as necessary.



The headrail bracket is pre-mitered on one end. Cut the opposite end appropriately to size.

B Mount the headrail ceiling bracket on the centerline of the front wall. Attach the ceiling brackets with provided 5.5 x 70 mm washers and screws. Use sheetrock anchors as necessary.

C The pilaster ceiling brackets [15/30/15/2] will be pre-cut from the factory. For alcove installations or pilasters located against a wall, measure, cut, and install the wall connection U-channel [dimension 30/30/30/2] for the front wall.



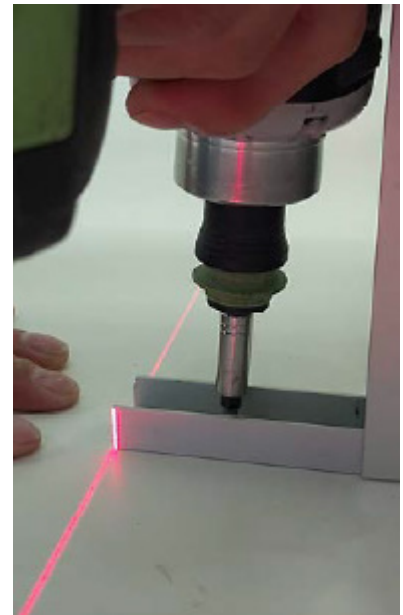
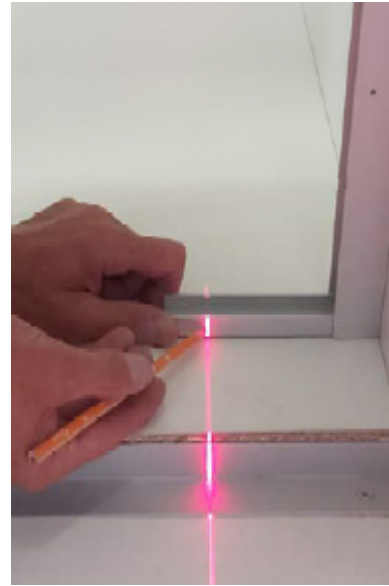
D

Using a laser level, place the laser at the end of the pilaster ceiling bracket shooting toward the back wall. Once aligned, mark the dimension onto the pilaster floor bracket. Cut as necessary.

Helpful note: these floor brackets can be small and dangerous to cut with a chop saw. Appropriately secure this floor bracket and cut with an angle grinder with metal cutting wheel.

E

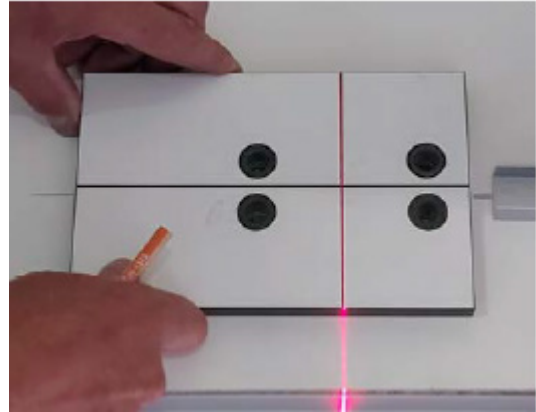
For corner installations, the miter for the floor bracket appears to be cut at an incorrect angle due to the different widths of the floor brackets. Do not be confused by this. The angle is correct.



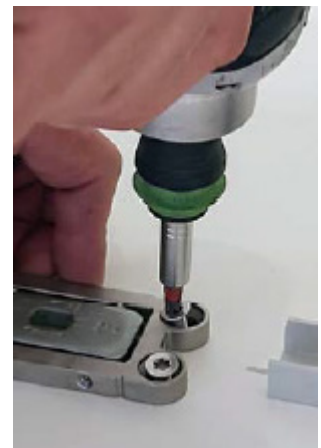
6 Mounting the Lower Door Hinge Assembly

A Complete the following steps using the provided production layouts, a 4D laser level, and the floor bearing drill template:

1. Align the long crosshair line on the template with the centerline of the front wall.
2. Align the short template line with the upper door hinge assembly hole.
3. There will be a hole in the upper door hinge assembly. Align the laser with this hole.
4. Secure the template.
5. Using a 10 mm drill bit, drill 30 mm deep holes in the floor at the (4) hole locations.



B Insert the supplied brass anchors into the holes. Screw the lower hinge plate onto floor using the M6 x 30 mm screws.



7 Mounting the Door Frames


A Place the door on the lower hinge assembly in the closed position.

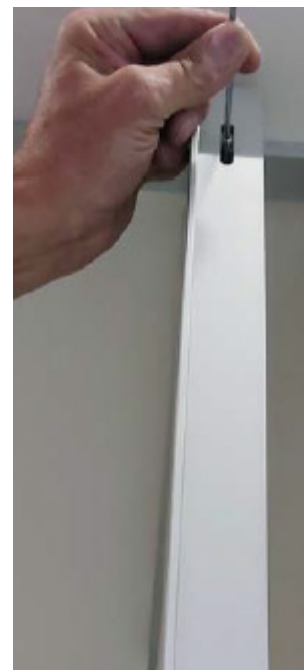
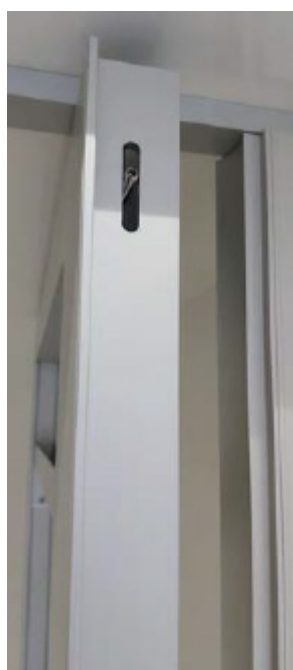
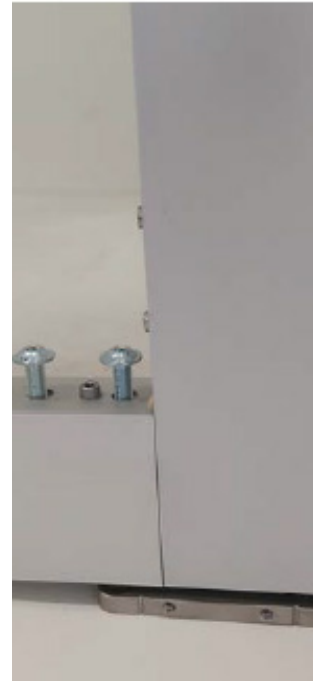
B Actuate the hinge and push door open to 90°.

C Align top of door to the socket in the headrail.

D Once aligned, loosen the set screw in the upper door hinge assembly with a 3mm allen key. The upper door hinge assembly has a pre-tensioned bolt that will release upwards upon loosening the screw.

E Once the door fits snugly in the socket, tighten set screw.

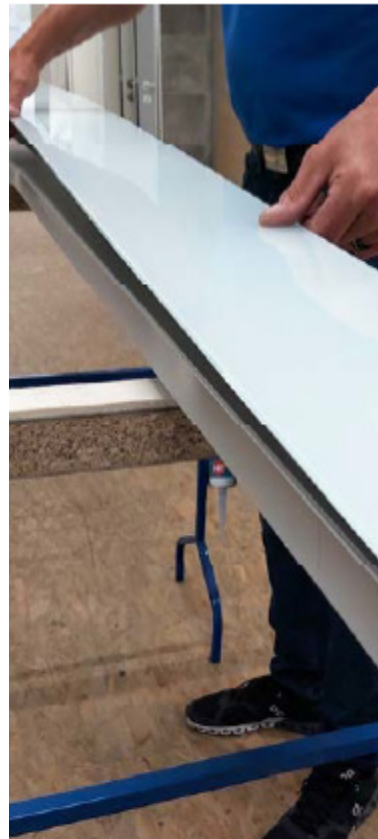
 It is ***VERY IMPORTANT*** that the bolt is properly in the hole and seated. The set screw will go almost entirely up to the top of the slot if properly seated.



8 Assembly of the Pilasters

A Before you can install the pilasters you need to glue the inner glass panels to the pilaster frame:

1. Lay the pilaster frame on a bench and clean with acetone or isopropyl alcohol to remove any oil or dirt.
2. Next apply supplied HB45 construction adhesive to frame.
3. Install glass with enameled side against frame and press firmly.
4. Align the edges of the glass with the edges of the frame.
5. Install glass to the inside of the pilaster only. The outside glass will be installed later.

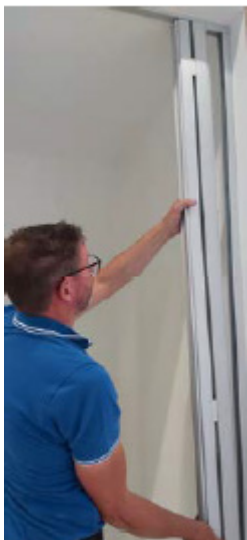
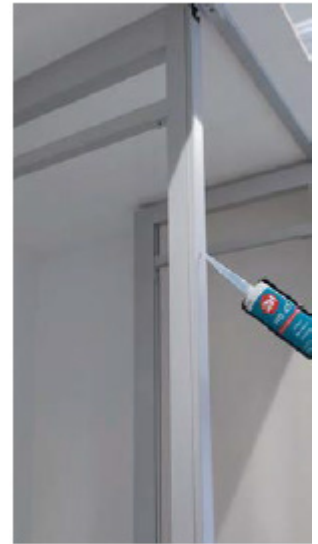


B Place 15 mm shims at the base of the dividing panels.

C Using acetone or isopropyl alcohol, clean the outermost edge of the dividing panels. Apply construction adhesive to the face of the dividing panels.

D Insert the pilasters into the ceiling brackets first pushing them upwards as far as possible then sliding them down on the floor brackets.

E Install the end pilaster. Using shims, align the end pilaster and the door frame to maintain a 4 mm gap. Ensure the corner pilaster is flush with the outer edge of the outer wall frame.



9 Securing the Pilasters

A Using an 8 mm wrench or socket, loosen the lower bolt on the pilaster floor guide.

Once loosened, push pilaster down onto floor bracket and tighten bolt.

B Once properly seated in floor bracket, tighten bolt.



10 Door Frame Adjustment : Height Adjustment

☒ The door frames can be adjusted in height using the 3 screw connections on the hinge side of the lower bolt of the door frame. Provided are 1 Fixing screw (located toward the middle) and 2 Adjusting screws (located at the end toward the hinge).

A Using a 3 mm L-wrench loosen the fixing screw. Then adjust the height of the door using a 5 mm L-wrench to turn the adjusting screws. Once at the desired height, tighten the fixing screw.



11 Door Frame Adjustment : Lateral Adjustment

You can adjust the lateral door alignment and the flushness of the door frame at the floor bearing.

A There are a total of 6 allen screws on the side of the floor bearing with which you can change the position of the door frame by turning the screws in or out with a 3 mm allen key.

B If adjustment is necessary, completely loosen all the set screws first. Once loose re-tighten the set screw to align. Then re-tighten the rest of the screws



12 Aligning And Riveting The Partition Frames

A Adjust the height of the dividing wall frames using the 13mm bolt on the bottom of the frame.

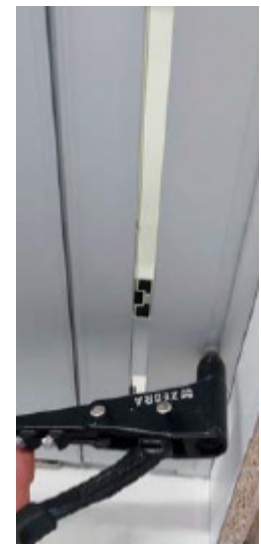
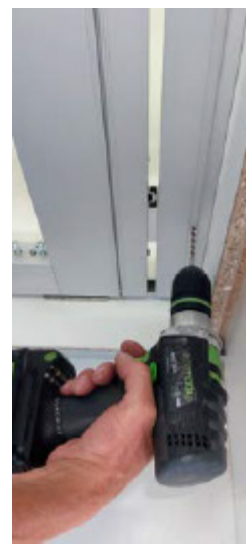
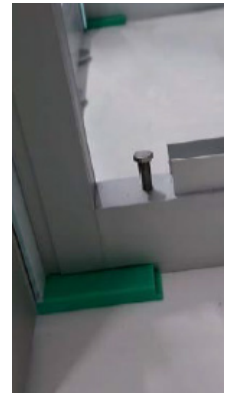
☒ Re-check to ensure the frames are firmly against the front and together at the joint.

B Using a 4.2 mm drill bit, drill 3 holes at the end where the frame mates with the wall bracket. Also drill 3 holes where the two dividing walls meet in the groove.

C Affix together using 4 x 12.5mm stainless steel rivets.

D Check the alignment of the end pilaster to the door. Once alignment is confirmed, rivet the pilaster frame to the wall bracket.

☒ Make sure you place the rivets into the recessed portion of the frame so they do not interfere with the glass installation.



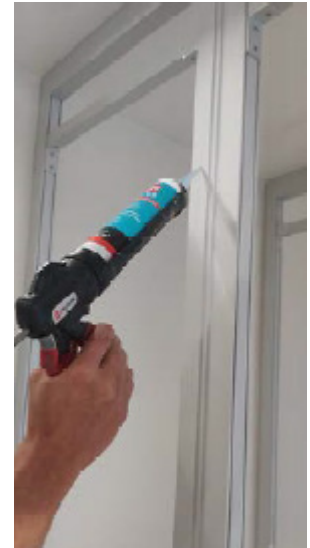
13 Glue On: Glass Panels of Outer and Middle Wall

You can find the allocation of the panes in the production drawing. The positions are numbered consecutively in the drawing and the respective numbers can be found on the stickers of the glass panel.

A Align shims on the floor at the frames to ensure the correct mounting height is achieved.

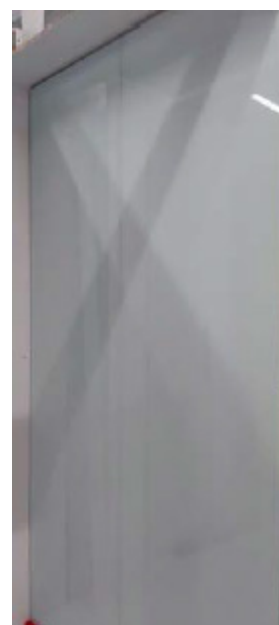
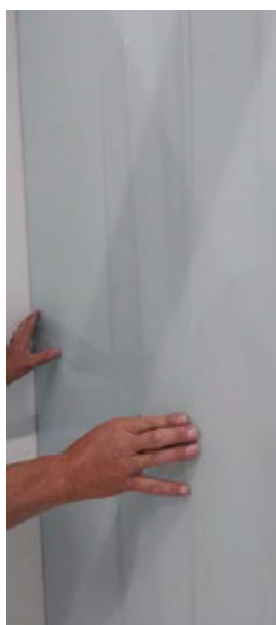
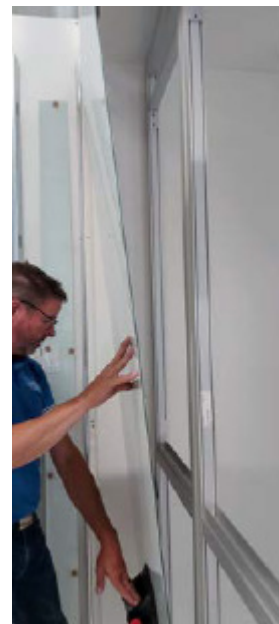
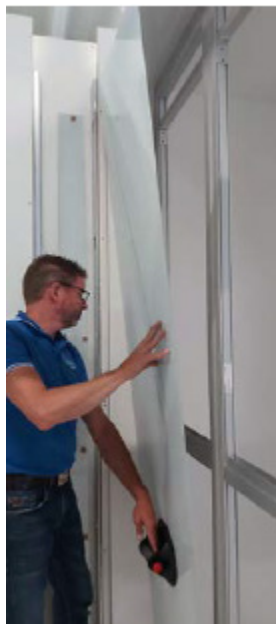
B Clean all frame profiles with acetone or isopropyl alcohol (removes dust and oil residues).

C Apply sufficient HB 45 to the surfaces of the frame profiles.



D Place the glass panels always with the enameled side turned inwards, on the shims and then press them evenly against the frames.

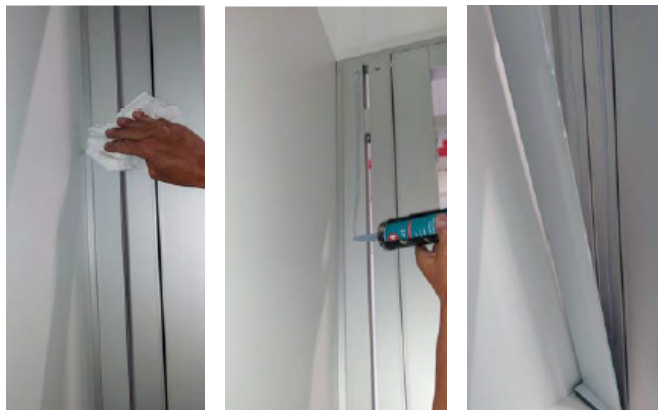
E Start with the glass panels of the outer and middle wall. Make sure that the glass panels are pressed firmly against the front elements without any visible joint and that the butt joints are tight and flush.



14 Glue On: Glass Panes on Pilasters and Doors

A

Glue the glass panels to the inside of the end pilaster and the doors. When gluing the door panels, be sure to note that there are different panels for inside and outside. The panels differ due to the unequal distances of the holes for the door handles.



B

Place the door panels on the assembly disks on the lower frame profile (these also serve to adjust the height) and press the panels on neatly and flush with the surface, especially at the corners.



C

Make sure that all panels are at the same height and that the gaps between doors and front panels are evenly 4 mm in width.



D

Then, using the same procedure, glue the panels to the outer sides of the frames. Again, make sure that the gaps between front panels and doors are evenly spaced at 4mm by positioning the corresponding shims in the top and bottom of each gap.

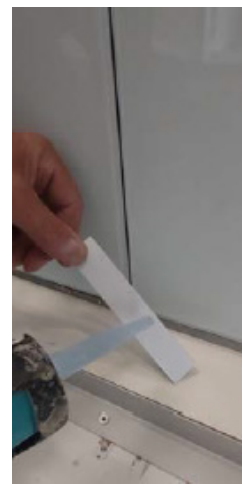
Before the final assembly of the fittings and accessories can take place, the bonds must be left to dry for at least 12 hours. Depending on the room temperature, the adhesive will only cure completely after 3-4 days.

15 Remaining Assembly the Next Day

A After observing the 12-hour drying time, you can now remove all shims, underlays and the assembly disks on the doors (by turning them out downwards).



B Close the open ends of the floor brackets by gluing in the provided plastic caps with HB 45. If needed to compensate for floor slope, glue the supplied flat profiles 30/2 to the floor brackets, also with HB 45.



16 Mounting Handle / Door Bumper

Before fitting the handle set, it is essential that you insert the supplied plastic washers into the glass holes of the doors. Without these plastic washers, the glass panels may break when the screw connections are tightened. The plastic protects the glass.

A After mounting the handle sets, glue the bumpers in the correct positions.

B Apply a little HB 45 construction adhesive to the back of the bumper, press them on lightly and fix them with a strip of adhesive tape to prevent them from slipping.

C Clean off any excess glue.



17 Adjusting the Door Closing Action

Lower hinges can be easily modified during installation. If necessary, adjust screw 1 for closing speed and adjust screw 2 for latching speed (on the last 10°).

A You can accelerate or decelerate the speeds by turning the adjusting screws with a small slotted screwdriver, depending on the direction of rotation.

B After adjustment, place the cover plate on the lower hinge assembly and screw it tight with the enclosed threaded screws.

C Lastly, press the stainless steel cover caps onto the floor bearings

