# BRS BOTTOM ROLLING HERC-SLIDING DOOR™ RAIL SYSTEM

## MODEL BRS100


HERC-DOOR™

U.S. Patent No. 11,060,341 Other Patents Pending

FHC™ MANUFACTURING

DESIGNED & MANUFACTURED BY FRAMELESS HARDWARE COMPANY

MADE IN U.S.A.

USE MONOLITHIC TEMPERED GLASS

USE LAMINATED TEMPERED GLASS

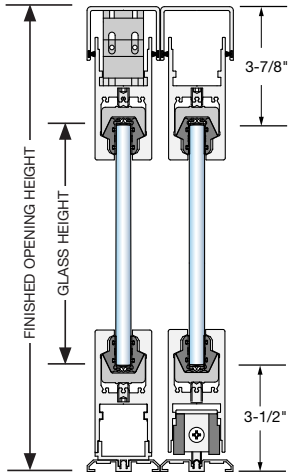
Glass is not included and will require fabrication. Detailed information inside.

FHC® FRAMELESS HARDWARE COMPANY
THE GLAZING SUPPLY COMPANY

**P.O. Box 1906, South Gate, CA 90280** Toll Free: **(888) 295-4531** | Fax: **(323) 336-8307** | Web: **fhc-usa.com**

# GLASS PANEL SIZING

The following information is provided to give the Installer a close approximation of the Glass Panel Sizes for HERC-SLIDING DOOR® Rail System based on each particular configuration.
Confirm the exact glass sizes required with FHC or by referring to the Shop Drawings.



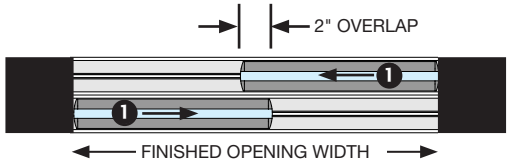

## APPROXIMATE GLASS HEIGHT FORMULA

MAX HEIGHT 108"

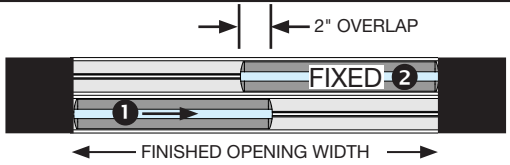
**GLASS HEIGHT = (FINISHED OPENING HEIGHT) - (7-3/8")**

## APPROXIMATE GLASS WIDTH FORMULAS

MAX WIDTH 48" ❶ ROLLING PANEL ❷ FIXED PANEL




**GLASS WIDTH ❶ = (FINISHED OPENING WIDTH ÷ 2 ) + 2"**




**GLASS WIDTH ❶ = (FINISHED OPENING WIDTH ÷ 2 ) + 2"**

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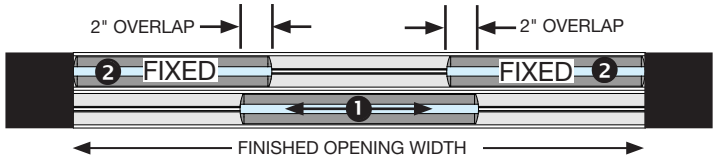
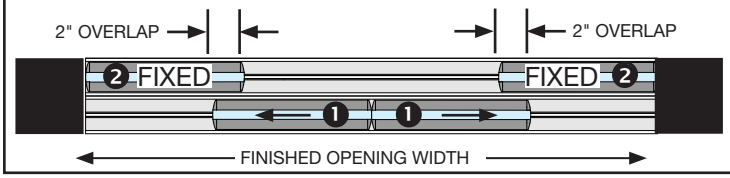



**❶ = (FINISHED OPENING WIDTH ÷ 3 ) + 4"**

**❷ = (FINISHED OPENING WIDTH ÷ 3 ) + 2"**




**❶ = (FINISHED OPENING WIDTH ÷ 4 ) + 2"**

**❷ = (FINISHED OPENING WIDTH ÷ 4 ) + 2"**

**SYSTEM SPECIFICATIONS**

**Finish:** BS, PS, SA, DU, MB, SB, PB, 0RB, Powder Coat, and KYNAR®
**Glass:** (Not Supplied) Monolithic / Rigid Interlayer Laminate
**Glass Thickness:** 3/8"(10 mm), 1/2" (12 mm), or 9/16" (13.52 mm)
**Max. Glass Size and Weight:** 48" Width x 108" Height, 400 lbs.

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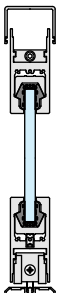
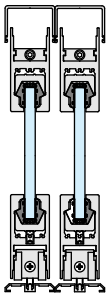
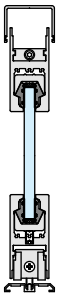
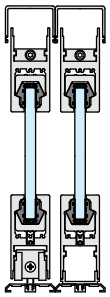
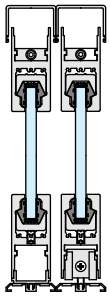
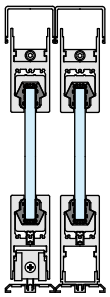
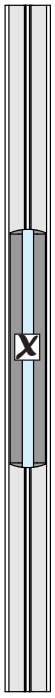
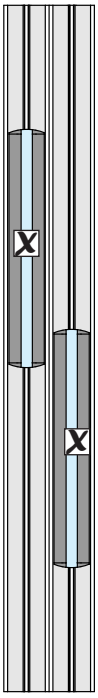
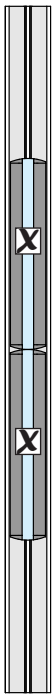
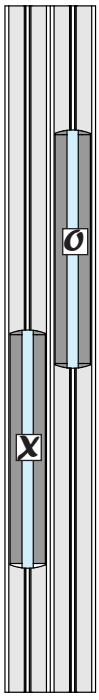
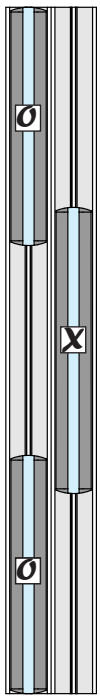
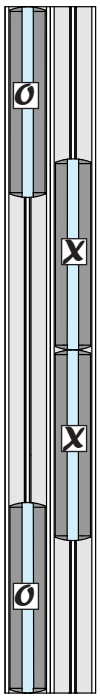
# BRS SYSTEM CONFIGURATIONS

| SYSTEM TYPE | -X- SINGLE SLIDER | -XX- DOUBLE SLIDER BYPASS | -XX- DOUBLE SLIDER BI-PART | OX/XO SINGLE SLIDER SINGLE FIXED BYPASS | OXO/OOX/XOO SINGLE SLIDER DOUBLE FIXED BYPASS | OXXO DOUBLE SLIDER DOUBLE FIXED BI-PART |
|---|---|---|---|---|---|---|
| SQUARE PART NUMBERS | BR4S1XXC* | BR4S2XXC* | BR4S21XXC* | BR4S11XXC* | BR4S12XXC* | BR4S22XXC* |
| TAPERED PART NUMBERS | BR4T1XXC* | BR4T2XXC* | BR4T21XXC* | BR4T11XXC* | BR4T12XXC* | BR4T22XXC* |
| SLIDING PANEL(S) | 1 | 2 | 2 | 1 | 1 | 2 |
| FIXED PANEL(S) | 0 | 0 | 0 | 1 | 2 | 2 |
| END VIEW |  |  |  |  |  |  |
| TOP VIEW |  |  |  |  |  |  |

*Finishes are indicated by a letter code below where the **XX** in each part number.

BS - Brushed Stainless
PS - Polished Stainless
SA - Satin Anodized
DU - Dark Bronze Anodized
MB - Matte Black (Powder Coat)
SB - Satin Brass
PB - Polished Brass
PT - Powder Coat Finish
KN - KYNAR Paint
0RB - Oil Rubbed Bronze

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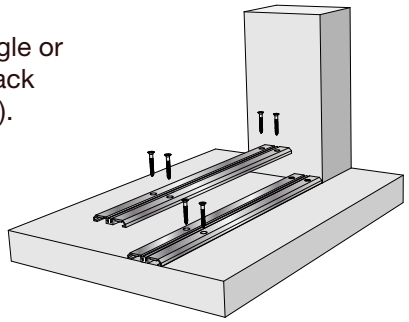
# BOTTOM TRACK INSTALLATION

BRS100 HERC-SLIDING DOOR® SYSTEMS are designed to be used as single or multiple track installations. As with the BRS Head Channels, the Bottom Track Channels may be combined to allow a variety of configurations (see page 3).



## BOTTOM TRACK PREPARATION

Dual Track System Shown

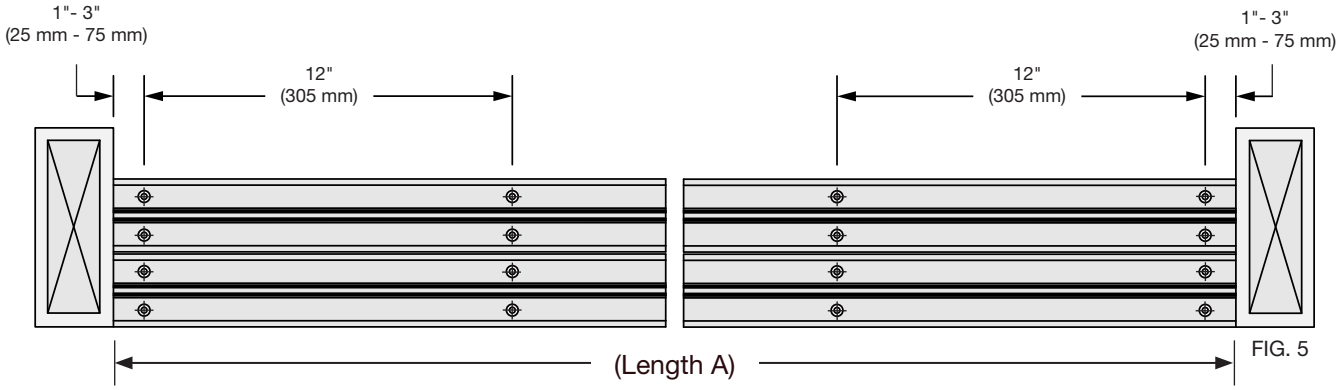
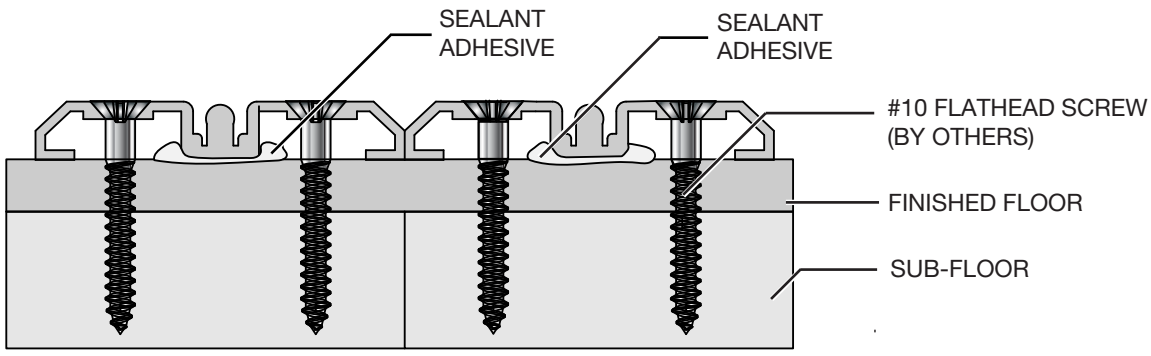



FIG. 5

**Step 1:** Measure and cut track profiles to fit between finished walls or jambs. (Length A)
**Step 2:** Drill countersink holes to accommodate #10 flathead screws. Fasteners are by others and should be approved by a Structural Engineer.
**Step 3:** Locate the desired setback for your job and attach the track profiles as illustrated below.

## BOTTOM TRACK MOUNTING

The installation site must be free of debris, flat, and level. When mounting to solid surfaces such as Tile, Engineered Flooring, or Finished Concrete, it is recommend that the track profiles be set into a bead of wet sealant/adhesive and then fastened as illustrated.




**Floor Structure-** The Finished Floor Surface and the supporting Sub-floor must be capable of supporting the BRS Sliding Door System. The design of the BRS100 system concentrates the load at the bottom track and not the head channel. Large, heavy glass panels may load the floor structure with several hundred pounds. Verify the load capacity of the floor with a Structural Engineer before installation.

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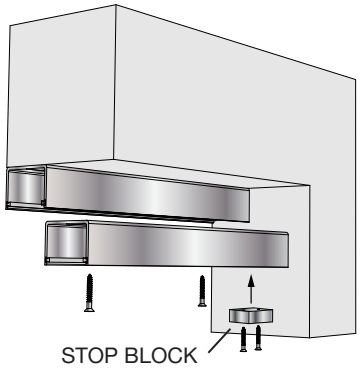
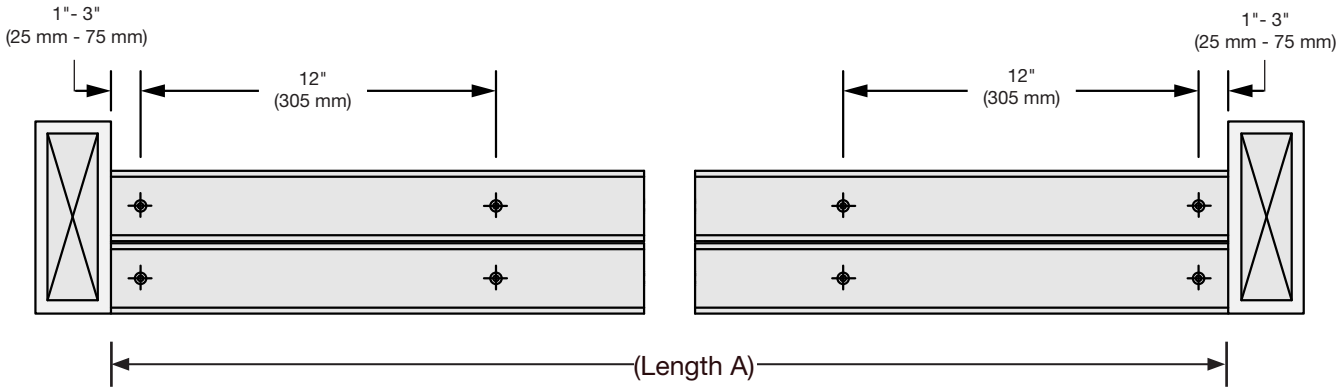
# HEAD TRACK INSTALLATION

BRS100 HERC-SLIDING DOOR® SYSTEMS are designed to be used as single or multiple tracks systems. As with the BRS100 Bottom Track Channels, the Head Tracks are easily combined, allowing a variety of configurations. (see page 3)



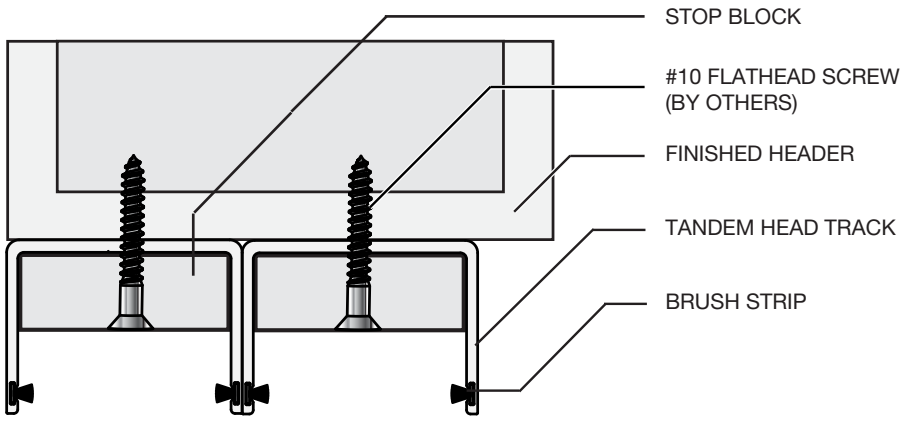

## HEAD TRACK PREPARATION

Dual Track System Shown




**Step 1:** Measure and cut track profiles to fit between finished walls or jambs. (Length A)
**Step 2:** Drill countersink holes to accommodate #10 flathead screws. Fasteners are by others and should be approved by a Structural Engineer.
**Step 3:** Locate the desired setback for your job and attach the track profiles as illustrated below.
**Step 4:** Stop Blocks are shown for reference but should be mounted after the doors are in place.

## HEAD TRACK MOUNTING




**Lateral Loading -** The BRS Head Track must be mounted to a structurally sound finished Opening Header capable of supporting repeated lateral loads during operation. Verify the load capacity with a Structural Engineer before installation.

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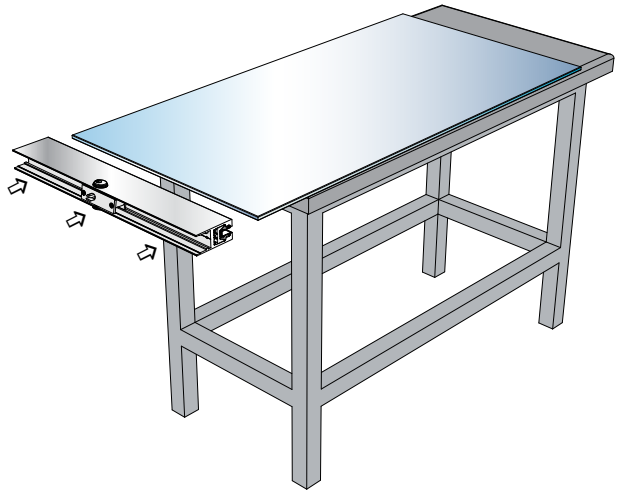
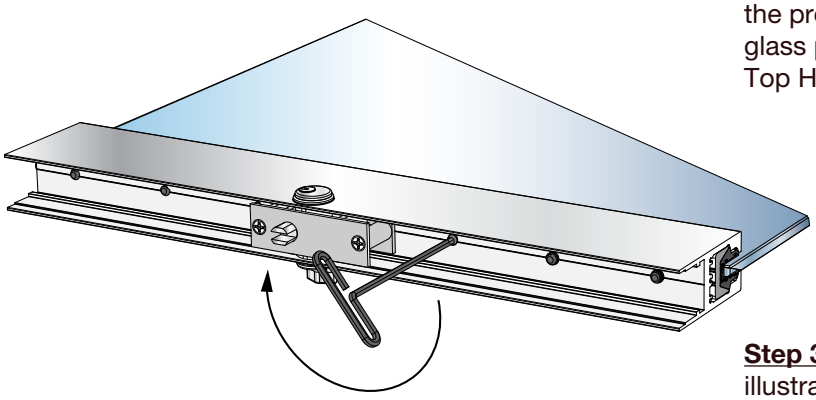
## HERC DOOR RAILS

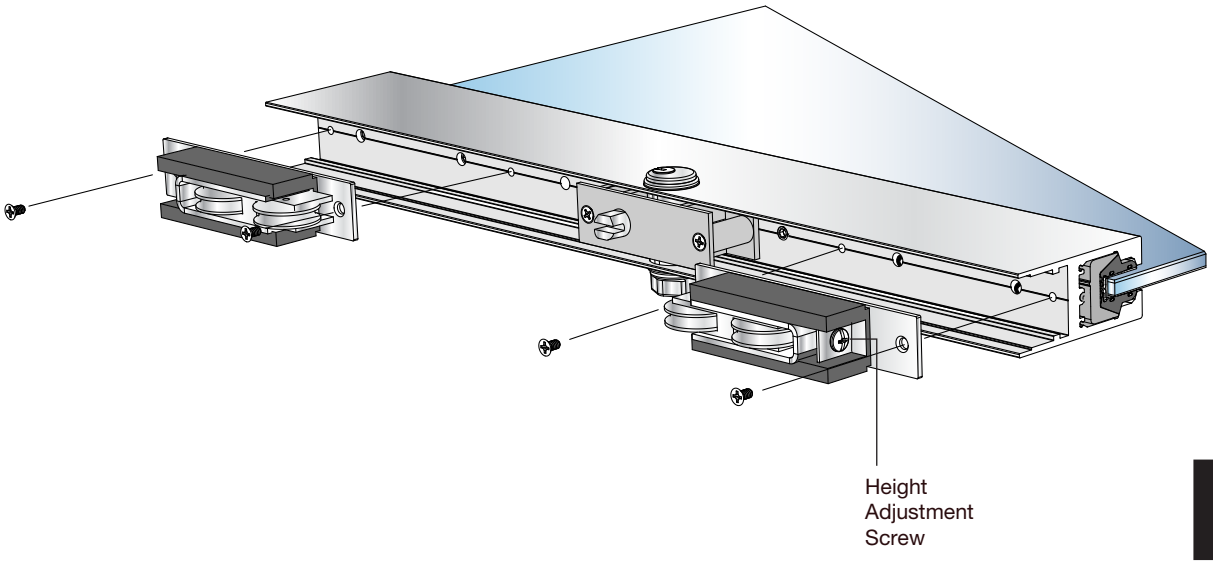


**STEP 1:** Slide the Bottom HERC Rail over the end of the glass panel and snug against the edge. Center the rail side-to-side. **NOTE:** If the HERC Rail will not fit over the glass, loosen the set screws along the bottom to spread the clamp rails.

**STEP 2:** Starting from the center and working back-and-fourth, use the 9mm T-handle hex wrench to lightly snug each 3/8" set screw until the glass is evenly clamped. Verify that the HERC Rail is parallel to the glass and adjust if necessary. Starting in the center again, torque each set screw until the T-handle begins to flex beyond the set screw movement. This will apply the proper clamping force to the rails assuring a safe glass panel attachment. Repeat Steps 1 and 2 for the Top HERC Rail.



**Step 3:** Install the Bottom Roller Assemblies as illustrated. The roller height adjustment screws should be facing out for height adjustment.



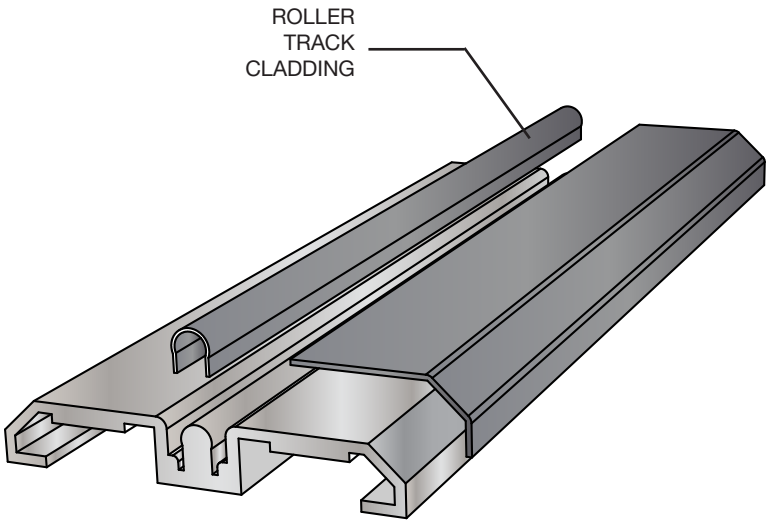
# CLADDING

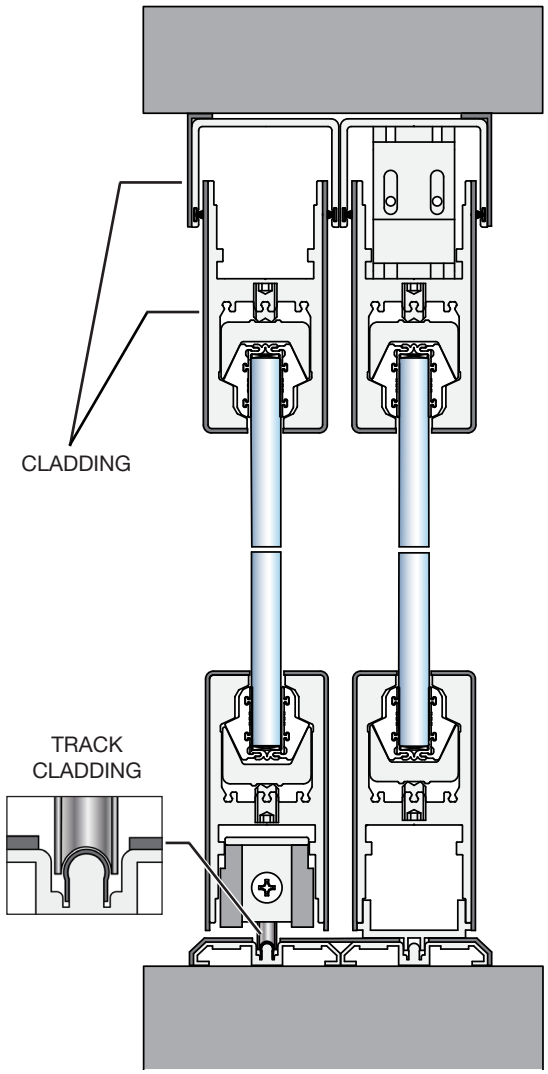
Optional Cladding is available for the FHC BRS100 HERC-SLIDING DOOR® Rails. The factory-fabricated outer clad layers are easily applied following the procedures below. It is recommended to apply the cladding prior to installing the fixed and rolling panels. **NOTE:** The protective film should remain in place until job completion.

**STEP 1:** Dry-fit all cladding components before removing adhesive tape liner.

**STEP 2:** Apply the Bottom Track Cladding using the same procedure as above.

**STEP 3:** Press the Roller Track Cladding over the roller rails of the bottom track. Use a soft rubber mallet to ensure that the cladding is firmly in place. Do not apply to sections that will carry fixed panels. **NOTE:** DO NOT APPLY ROLLER TRACK CLAD IF INSTALLING FLOOR LOCK BEFORE DRILLING THE LOCK BOLT HOLE. (PAGE 9)



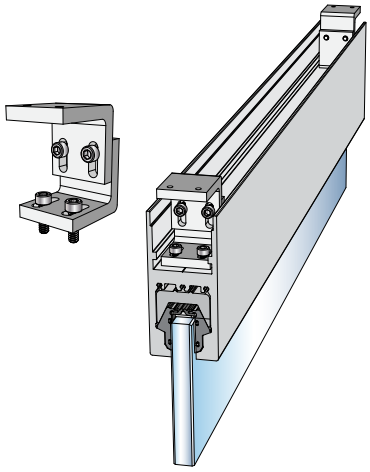

**IMPORTANT:** Bottom track cladding should be applied before installing rolling and fixed panels.

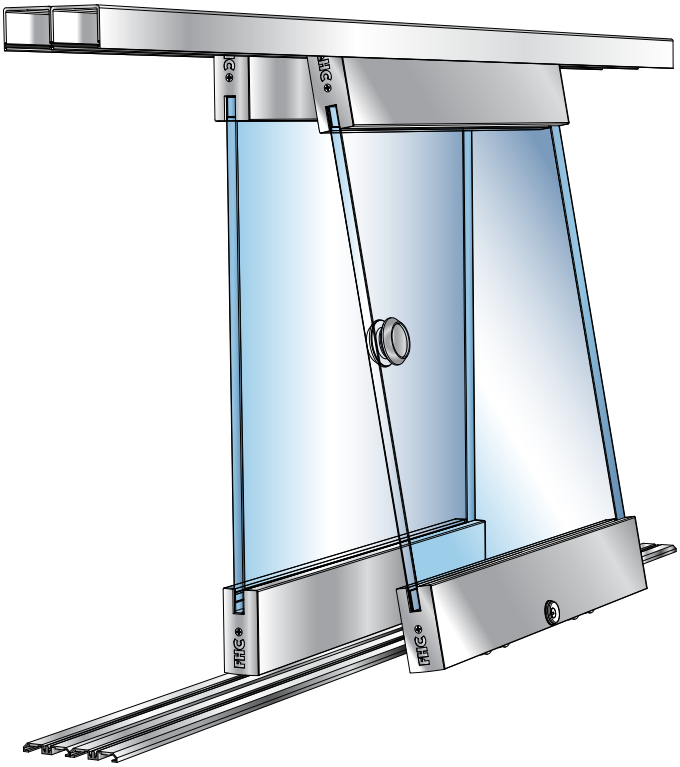
# SLIDING PANEL INSTALLATION

### INSTALL THE ANTI-LIFT BLOCKS

Adjustable Anti-Lift Blocks are provided with your order and are factory installed on the **Sliding** and **Fixed** panels.

After attachment. Make sure that the Anti-Lift Blocks are adjusted to their lowest position. Once the panels are set into the head track they must be raised just short of dragging to prevent lifting of the panels.





### INSTALL THE SLIDING DOORS

**STEP 1:** To Install Sliding panels make sure that the tract is free of debris and that all track cladding has been installed as instructed in Step 3 on the previous page. Use a vacuum to remove any metal shavings from the track.

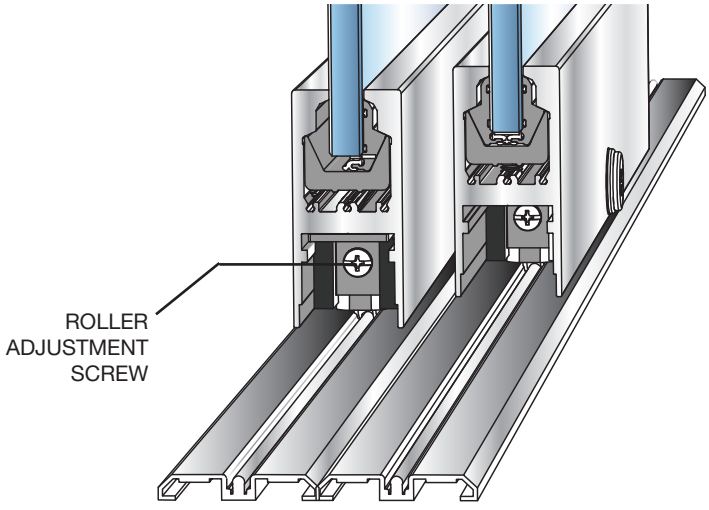
**STEP 2:** Install the rear sliding panel first by inserting the top HERC-SLIDING DOOR® Rail into the back upper guide rail.

**STEP 3:** Lift up enough for the bottom rollers to clear the track and gently set them on the rear Roller Track Cladding.

**STEP 4:** Check the sliding function of each panel from one side to the other. If the bottom door rail rubs the track at any spot, adjust the rollers as shown below.

### BOTTOM ROLLER ADJUSTMENT

To adjust the Bottom Rollers, remove both End Caps to expose the Roller Adjustment Screws. Tighten the screw clockwise to raise the panel and counterclockwise to lower the panel. It is best to align each panel with the adjacent jamb in the closed position.

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# SLIDING PANEL INSTALLATION

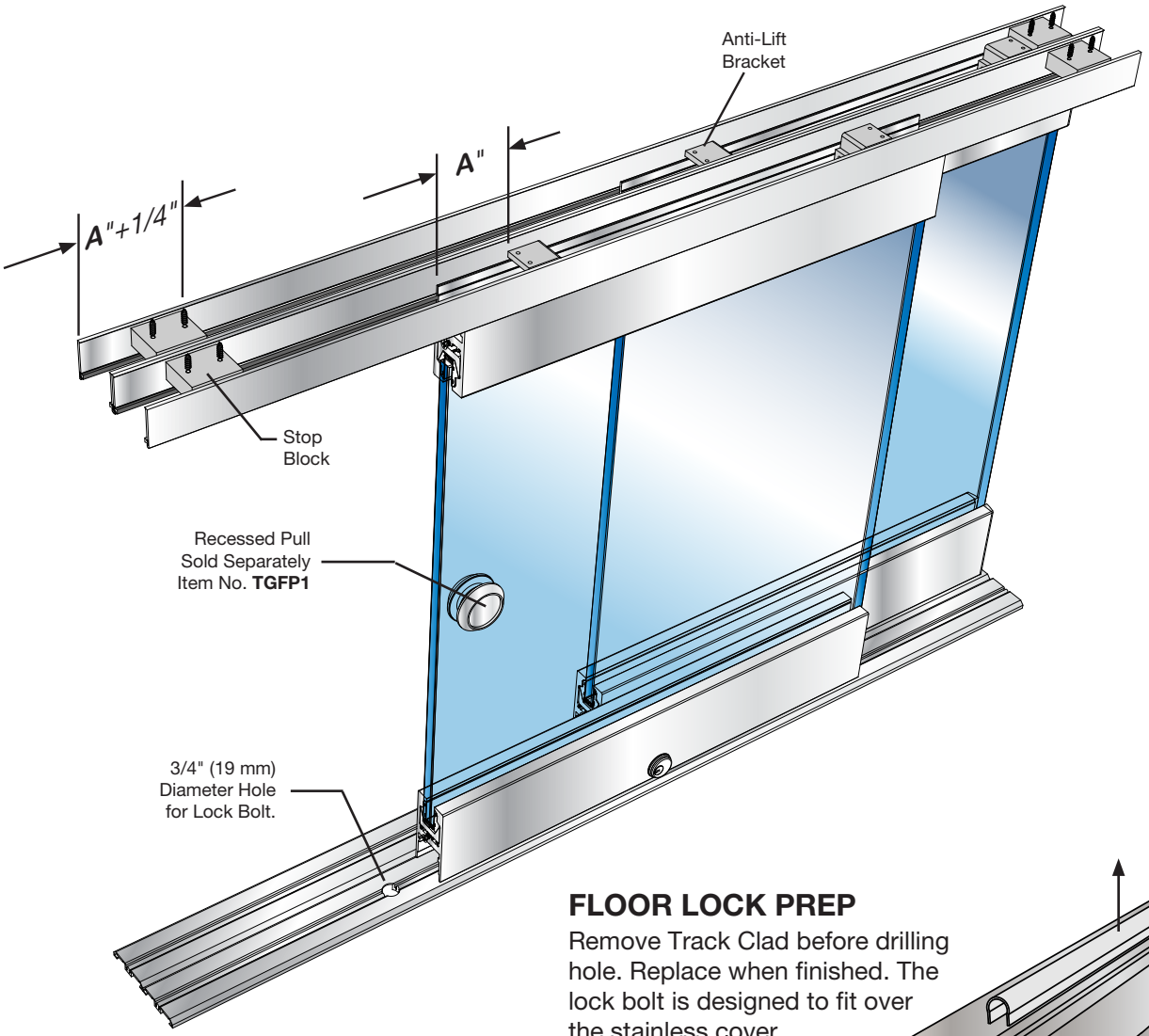
## STOP BLOCK INSTALLATION

**STEP 1:** With the Anti-Lift Brackets attached to the top of the HERC-SLIDING DOOR® Rails, slide each panel to the closed position.

**STEP 2:** Adjust the bottom rollers to ensure that the panels are parallel to the jambs if necessary.

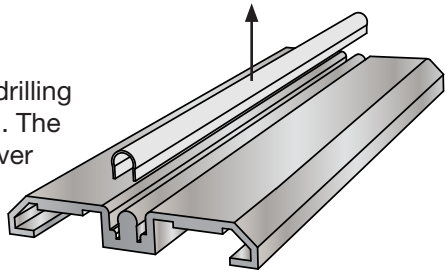
**STEP 3:** Open each panel and measure the distance from the face of the Anti-Lift Bracket to the end of the HERC-SLIDING DOOR® Rail **A**".

**STEP 4:** Set the Stop Block **A**" + 1/4"(allowance for end-cap) for that particular panel. Measure each side and door panel as the dimensions may vary.




### FLOOR LOCK PREP

Remove Track Clad before drilling hole. Replace when finished. The lock bolt is designed to fit over the stainless cover.



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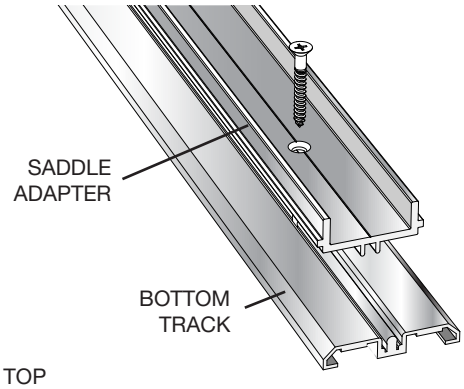
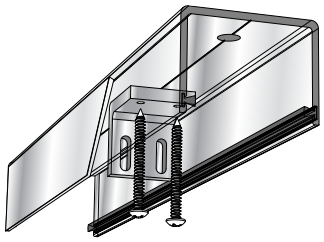
# FIXED PANEL INSTALLATION

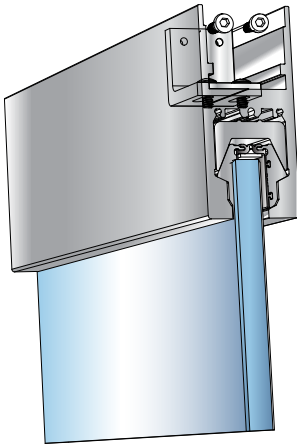
## TRACK AND HEAD PREPARATION

The Fixed BRS Door Panels are secured to the Bottom Track using FHC's special Saddle Adapter. It maintains a solid grip on the HERC-DOOR® Rail System while keeping it centered on the track. Mount the Saddle Adapter to the Bottom Track using the appropriate fasteners (not supplied). The fasteners should penetrate the sub-flooring and slightly offset the track fasteners using the same spacing schedule as illustrated on page (4).



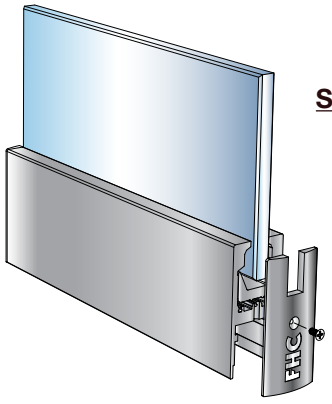
The Fixed Panel only requires (1) Anti-Lift Block per panel. Locate the block at the center stile, away from both jambs to allow access. Remove End Caps before proceeding.



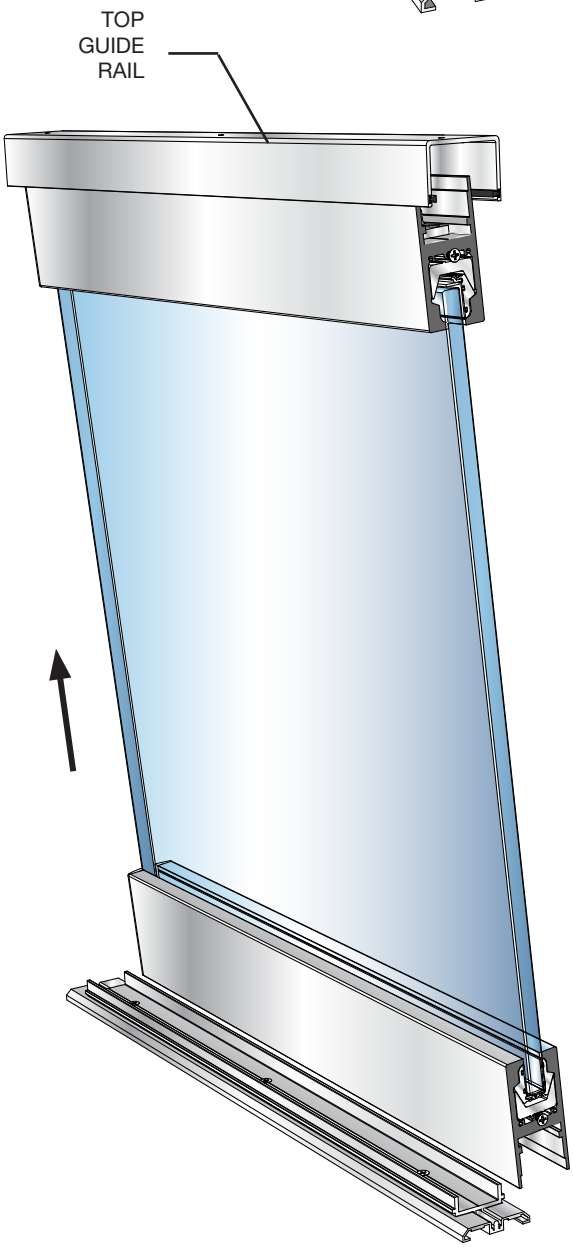
**STEP 1:** Attach the top-half of the Anti-Lift Block to the Top Guide Rail using approved fasteners (not supplied.) The fasteners should penetrate the Guide Rail and well into the header structure to prevent lateral movement.

**STEP 2:** Attach the bottom half of the Anti-Lift Block to the HERC-DOOR® Rail.

**STEP 3:** Lift the Fixed Panel up and over the Saddle Adapter into the Top Guide Rail and connect the two halves of the Anti-Lift Block with the provided #10-24 x 3/4" SHCS.



**STEP 4:** Install End Caps.

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