

Next Generation
Thermally Efficient Doors

aspire™
INSULATING GLASS ENTRANCE SYSTEMS



Next Generation
Thermally Efficient Doors



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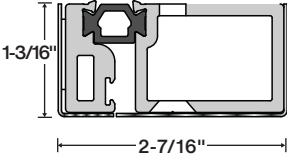
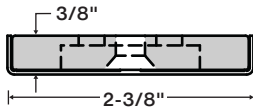
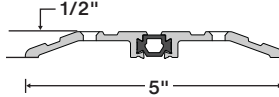
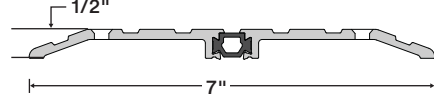
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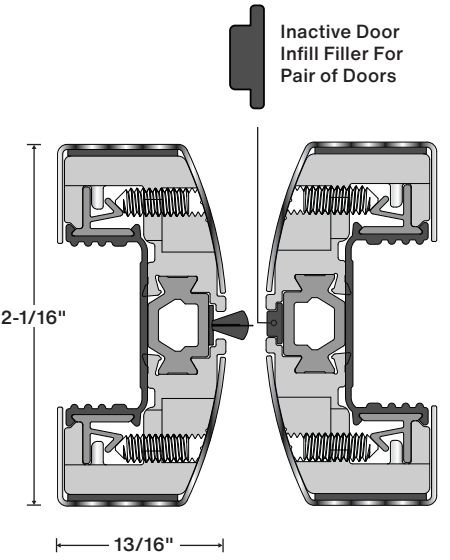
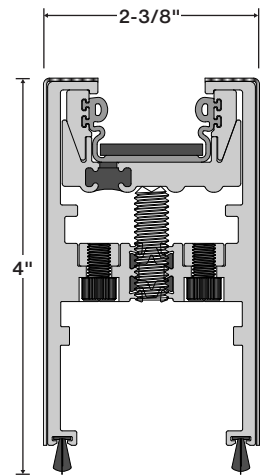
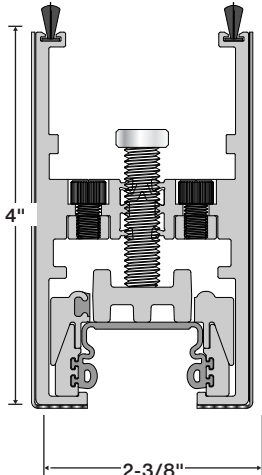
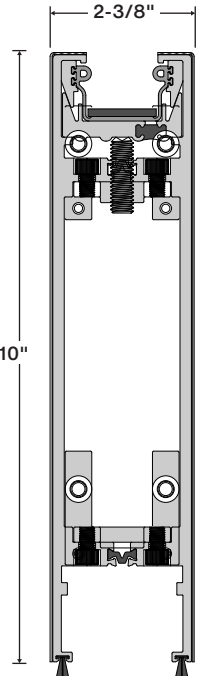
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PARTS

ASPIRE™ DOOR FRAME COMPONENTS

			
<p>Door Wall Jamb</p>	<p>Header for Single and Double Doors with Floor Closers</p>	<p>5" Threshold</p>	<p>7" Threshold</p>

ASPIRE™ DOOR COMPONENTS

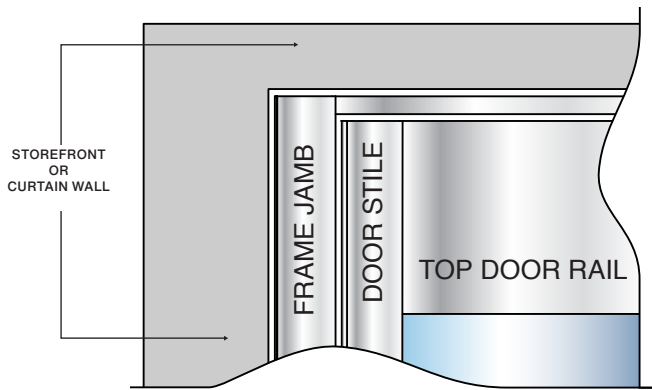
			
<p>1" I.G. Vertical Door Stile</p>	<p>4" Bottom Door Rail</p>	<p>4" Top Door Rail</p>	<p>10" Bottom Door Rail</p>

Illustrations Not To Scale

DOOR AND FRAME DETAILS

DOOR WITH FRAME - OPENING REQUIREMENTS

The Aspire™ Entrance Door System is precision engineered and built to minimum tolerances. Therefore, it is critical that the receiving doorway opening be finished square, plumb, and level for an optimum installation. Allow a minimum 1/4" frame clearance on the top and sides when mounting.



MIN 1/4" Clearance between door frame and door opening on the top and sides.

ALL ASPIRE® DOOR OPENINGS:

- SQUARE
- PLUMB
- LEVEL FLOOR
- LEVEL HEADER
- APPROVED STRUCTURE

HEADER CONFIGURATIONS FOR FLOOR AND OVERHEAD CLOSERS

Aspire™ Entrance Doors are designed to accommodate overhead or floor mounted closers, and may be configured to operate as swing-in, swing-out, or both. Figure 1 illustrates a typical dual-swing application, Figure 2 shows a single direction swing, and is best suited for a magnetic locking system.

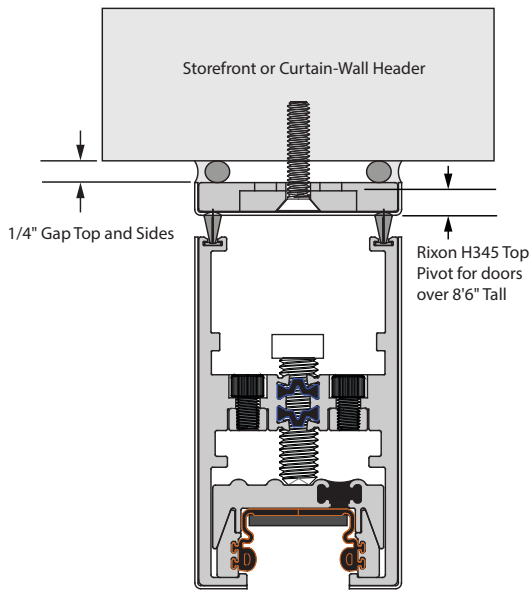


Fig. 1
FHC Aspire™ header
Configuration for floor closers.

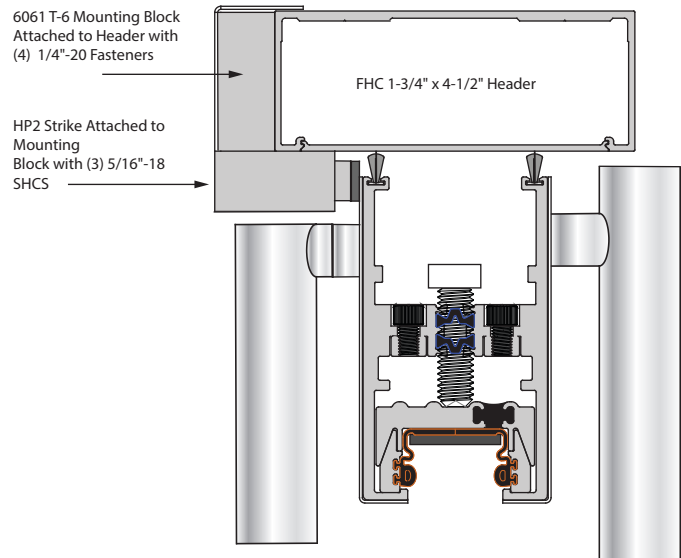


Fig. 2
FHC Aspire™ header
Configuration for overhead closers.



ASPIRE™ DOOR INSTALLATION DOOR

THRESHOLDS

FHC Aspire™ Door Systems offer 5" and 7", heavy-duty, thermally broken, thresholds to accommodate doorway depth. The 1/2" low profile and 1:2 slope change makes the Aspire™ thresholds ADA compliant in most cities.

Installation Steps:

1. Cut threshold to length and notch each end for the frame jambs to run through.
2. If a bottom closer is to be installed, refer to the shop drawings to determine the correct location on floor.
3. Install cement box and closer with correct spindle.
4. Drill spindle hole and countersink holes for fasteners in threshold.
5. Mark and drill anchor holes if installing on concrete or tile.
6. Install threshold with perimeter sealant and flathead fasteners.

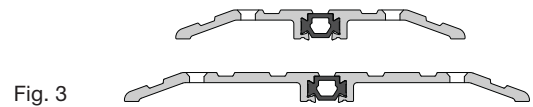


Fig. 3

FHC Aspire™ ADA compliant Thresholds in 5" and 7" widths.

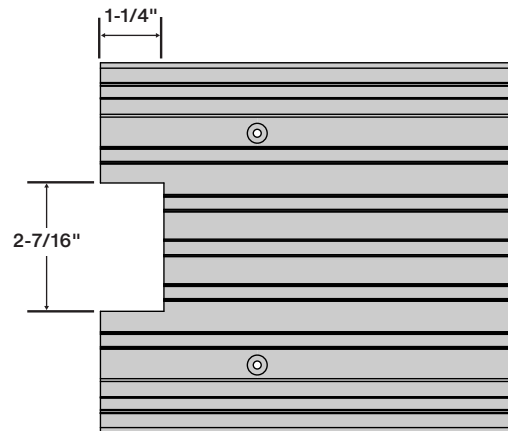


Fig. 4
Notch threshold 1-1/4" Deep X 2-7/16" Wide on each end for jamb components

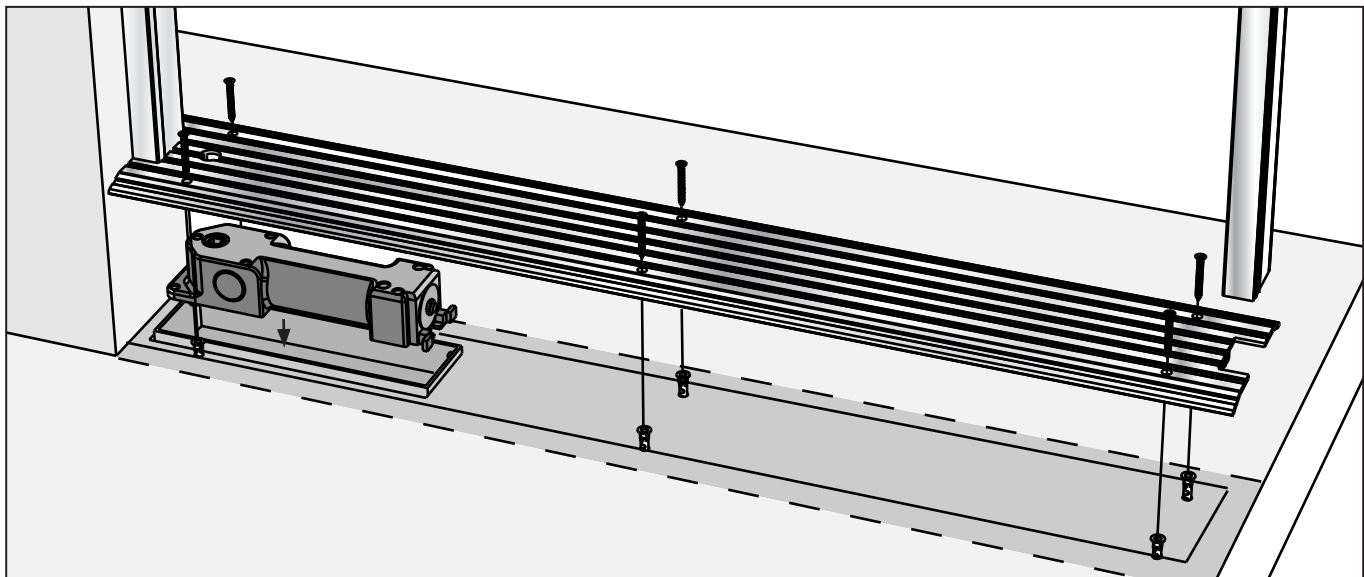


Fig. 5
Single door threshold installation with bottom closer in cement box.

ASPIRE™ DOOR INSTALLATION

JAMB INSTALLATION AT WALL

Installation Steps:

1. Pre-drill countersink holes in jamb extrusions. Look for the drill line on the non-cladded vertical jambs. Recommended spacing is:

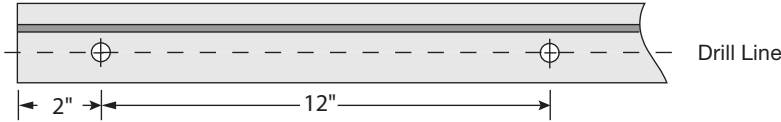


Fig. 6
Recommended countersink hole spacing in jamb extrusion.
DO NOT DRILL CLADDING.

2. Insert jamb into threshold notch. Verify that you have 1/4"-3/8" gap above the jamb to the structure header.

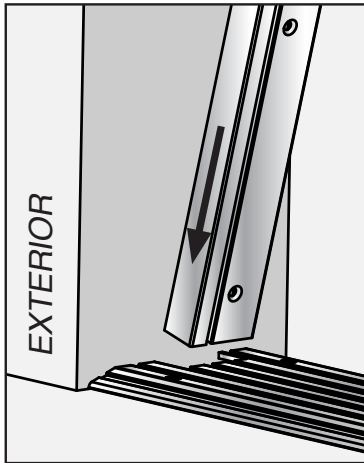


Fig. 7

3. With jamb plumb, insert screws and partially tighten the entire length so it can be pulled away from the wall for the next step.

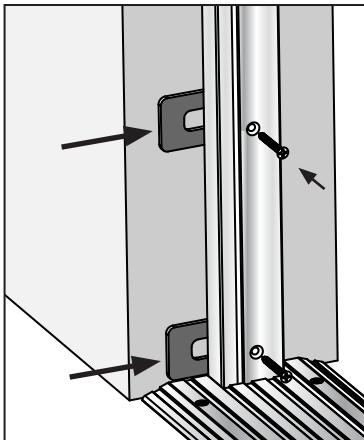


Fig. 8

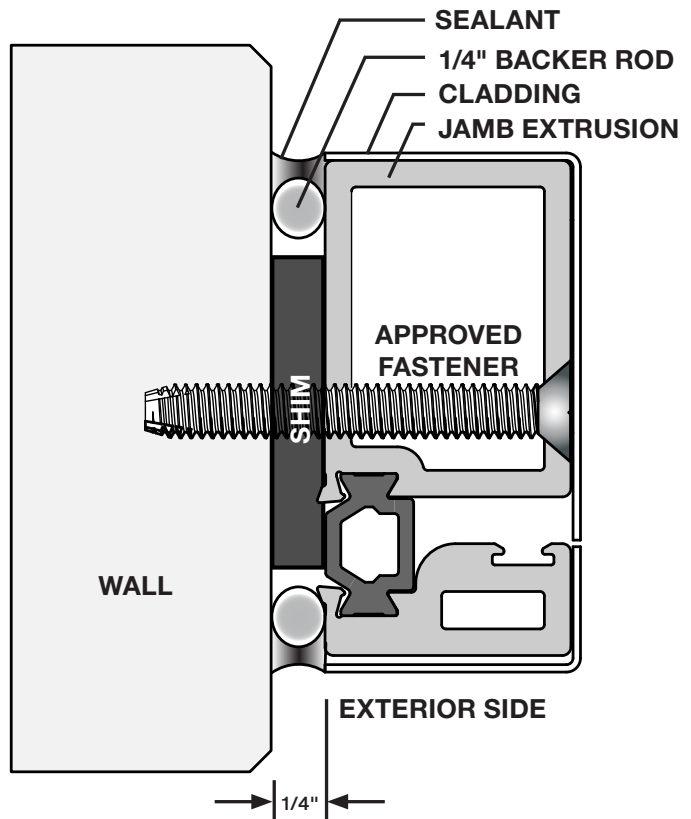


Fig. 9
FHC Aspire™ Glass Entrance Door Wall Jamb

4. Use 1/4" shims between jamb and wall to plumb frame and maintain a 1/4" gap. Shims should be placed so that they straddle each fastener to avoid dips in the jamb from over tightening. FIGURE 8.
5. Insert 1/4"-3/8" backer rod between wall and jamb, front and back.
6. Seal and tool the gap with sealant on the exterior and interior sides.
7. Apply the 2-piece cladding to jamb surfaces using VHB PSA tape. Figure 9

ASPIRE™ DOOR INSTALLATION

HEADER INSTALLATION AT WALL

FHC Aspire™ Header for double door, #AH1DC is attached directly to the structure header and are used for bottom closer installations. Modifications are available for the Rixon H345 top pivot on door taller than 102”.

Installation Steps:

1. Pre-drill countersink holes in header member.

Recommended spacing is:

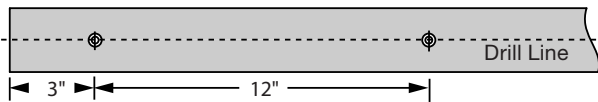


Fig. 10
Recommended countersink hole spacing in Head at wall header.
DO NOT DRILL CLADDING.

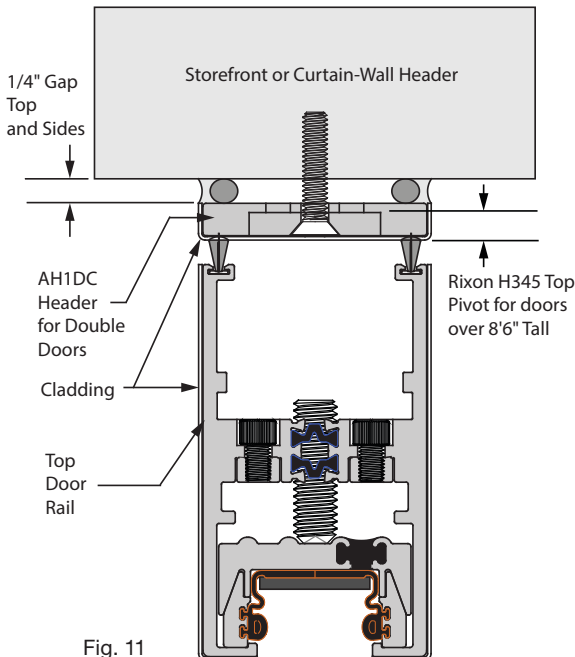


Fig. 11

NOTE: Fasteners should be approved by a structural engineer and are supplied by others. Flathead fasteners are required when cladding is applied to surface of the jamb member.

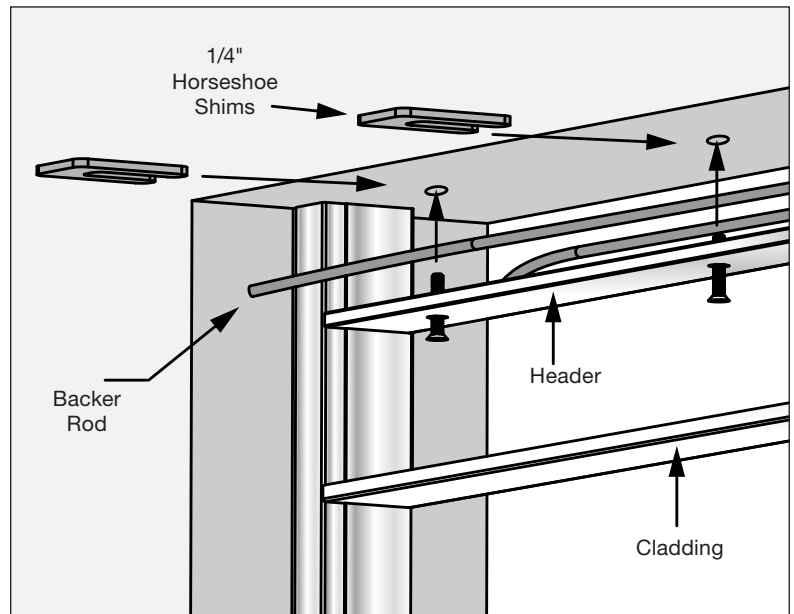


Fig. 12
AH1DC Double Door Header following the installation of the frame jambs. Make sure that the Aspire™ header is level and square.

4. Use 1/4" shims between header and wall to plumb frame and maintain a 1/4" gap. Shims should be placed so that they straddle each fastener to avoid dips in the header from over tightening. FIGURE 12.
5. Insert 1/4"-3/8" backer rod between wall and header, front and back sides.
6. Apply the cladding to header using VHB PSA tape.
7. Seal and tool the gap with sealant on the exterior and interior sides.

ASPIRE™ DOOR INSTALLATION

NEW DOOR PREPARATION

FHC Aspire™ Insulated Glass Entrance Doors are shipped from the factory made-to-order and fully assembled. Prior to installation, a few preparatory steps must be done.



Preparation Steps:

1. Remove all hardware and shipping pads from box. Use (2) people to remove the door.
2. Place the door on a supported table or saw horses that are capable of supporting the weight.
3. Prep the capillary vent tube. Figure 13.
5. Check the door for squareness. Adjust if necessary. Figure 14.
6. Attach the spindle and pivot hardware to the door head and rail, if required.
7. Use (2) people to hang the door.

ASPIRE™ DOOR INSTALLATION

DOOR PREPARATION DETAILS

CAPILLARY TUBE MODIFICATION

When specified at time of order, FHC Aspire™ Insulated Glass Entrance Doors are shipped from the factory with a small capillary tube that allows the insulated glass unit to equalize to the outside pressure. This prevents glass distortion that may occur at altitudes that differ from the point of manufacture.

The tube must be cut flush and sealed over with a dab of silicone at the installation site.

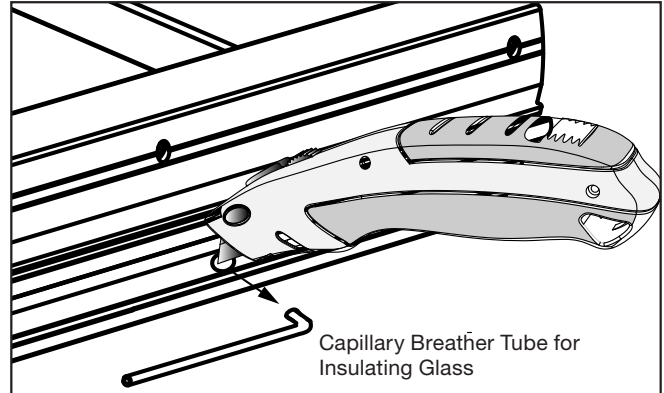


Fig. 13
Cut off the capillary tube and seal over the hole.

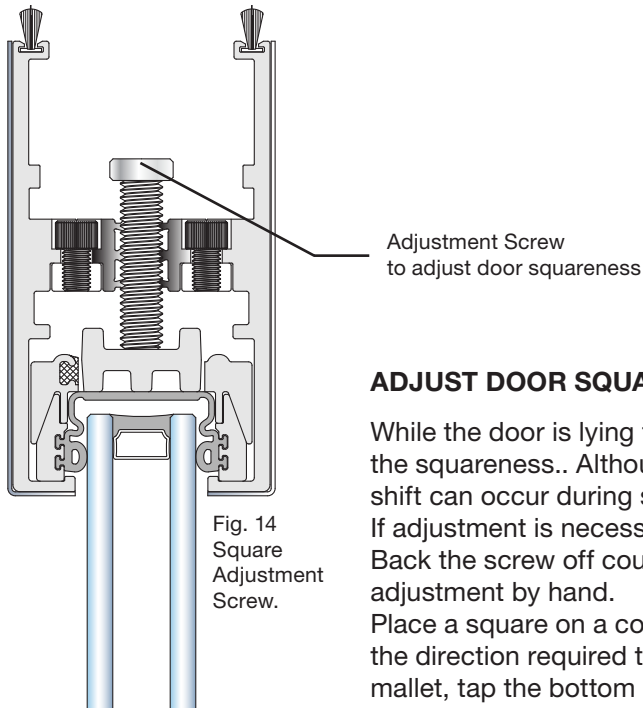


Fig. 14
Square
Adjustment
Screw.

ADJUST DOOR SQUARENESS

While the door is lying flat on the support table or horses, it is advisable to check the squareness.. Although every door is carefully checked at the factory, glass shift can occur during shipping.

If adjustment is necessary, loosen the adjustment screw located in the top rail. Back the screw off counterclockwise 8-10 turns so it does not restrict adjustment by hand.

Place a square on a corner or measure diagonally at both corners to determine the direction required to correct the out-of-square condition. Using a soft rubber mallet, tap the bottom of the left or right stile until reasonably square. Tighten the adjustment screw just past finger tight. Over tightening the screw will change the frame angles.

The final adjustment will be made after the door is in place.

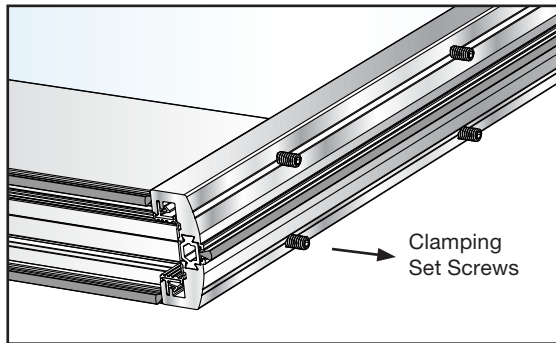
ASPIRE™ DOOR GLASS REPLACEMENT

GLASS REPLACEMENT

Replacement I.G. panels can be ordered from FHC anytime after installation. Make sure to keep the FHC Order Number for reference. FHC maintains careful records so your replacement can be ordered immediately over the phone without delay.

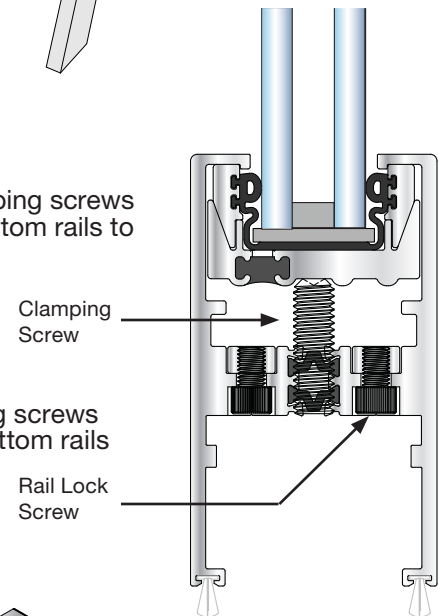
Glass Removal

1. With the door on a secure table or saw horses, remove all peripheral hardware: pivots, floor locks, handles, pulls, etc.
2. Remove the cladding from the stiles to expose the clamping set screws.
3. Remove clamping set screws on each stile.



4. Loosen the large clamping screws in both the top and bottom rails to release the glass.

5. Remove the rail locking screws to release the top and bottom rails from the stiles.



6. Gently tap the stiles out and away from the top and bottom rails using a soft mallet.

