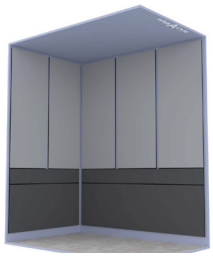
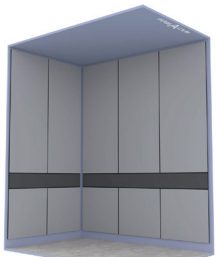
HYBRID PANEL SYSTEM



GEORGETOWN



KINGSTON



FABCAB

INSTALLATION INSTRUCTIONS:
HYBRID PANEL SYSTEM

CONTENT

4 STEP PROCESS:

1. General Guidelines
2. Reveal Installation
3. Panel Installation
4. Rail Installation

NEED MORE HELP?

WATCH VIDEO TUTORIALS:

1. Open the Camera app.
2. Scan Q.R. Code.
3. Select the link.
4. Select Hybrid Panel Video.

24 HOUR TECHNICAL HOTLINE: 800.800.4960

Our staff is always ready to answer any questions, night or day.

SPECIAL NOTES:

1 HYBRID PANEL SYSTEM
GENERAL GUIDELINES

TIP: **Always inspect the product for shipping damage before demolition of the existing cab interior. If any damage is found, please take photos and contact our 24 hour technical hotline detailing the extent of the damage.**



1.1 Review ‘customer drawings’ and ‘packing list’.

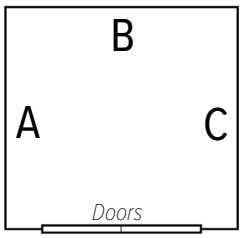
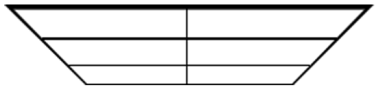


Figure 1.2

1.2 Elevation A,B & C represent walls as viewed from inside the cab looking out as shown in Figure 1.2.

1.3 Demo existing cab interior components including wall panels, hand rails, reveals, and mounting brackets.

1.4 If you are replacing the ceiling please follow the ceiling installation instructions provided in a separate document in your hardware kit as shown in Figure 1.4. This should be completed prior to installing the wall panel system.


Install Ceiling First
Figure 1.4

TIP: **Ensure you have all the required tools before installing.**
Please follow Personal Protective Gear requirements for your region.



2 HYBRID PANEL SYSTEM
REVEAL INSTALLATION 1/2

2.1 Install Base Reveals.

TIP: **If you have ordered Black Finish reveals, ensure to hide the holes on the reveals behind the panels. (These holes are used for powder coating purposes.)**
Our standard base reveal is 5" tall and ½" shorter than the width of each cab wall.

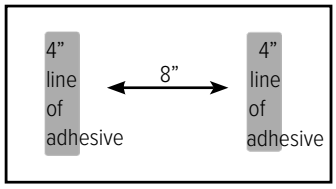


Figure 2.1.1

2.1.1 Apply adhesive on base reveal as shown in Figure 2.1.1.

2.1.2 Center the reveal against the wall along the floor and apply light pressure to distribute the adhesive evenly as shown in Figure 2.1.2.

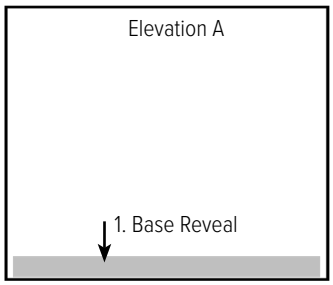


Figure 2.1.2

2.1.3 Repeat steps 2.1.1 through 2.1.2 for Elevation "B" and "C", as applicable.

2.2. Install Front Vertical Reveals.

TIP: **Our standard front vertical reveal is 2" wide and has a length that will reach from the floor of the cab to the top of the highest wall panel.**

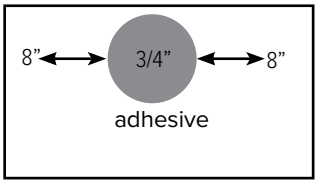


Figure 2.2.1

2.2.1 Apply adhesive on front vertical reveals as shown in Figure 2.2.1.

2.2.2 Place the front vertical reveal on the floor, against the wall & over existing base & apply light pressure to the length of it as shown in Figure 2.2.2.

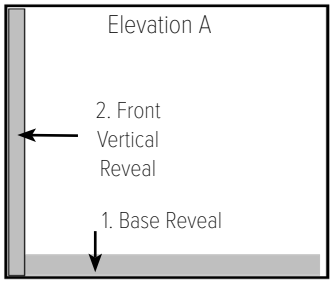


Figure 2.2.2

2.2.3 Repeat steps 2.2.1 through 2.2.2 for Elevation "B" & "C", as applicable.

2.3 Install Corner Reveals.

TIP: **Our standard corner reveal is 2" wide in both directions from the corner and has a length that will reach from the floor of the cab to the top of the highest wall panel.**

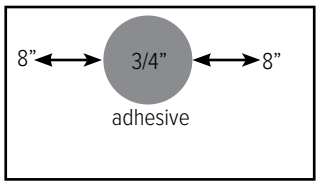


Figure 2.3.1

2.3.1 Apply adhesive on corner reveals as shown in Figure 2.3.1.

2.3.2 Place the corner reveal on the floor, against the wall & over existing base & apply light pressure to the length of it as shown in Figure 2.3.2.

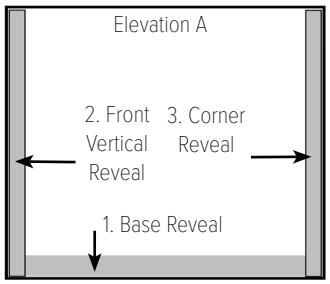


Figure 2.3.2

2.3.3 Repeat steps 2.3.1 through 2.3.2 for Elevation "B" and "C", as applicable.

TIP: Be sure to drill ventilation holes as required by your jurisdiction.

3 HYBRID PANEL SYSTEM
PANEL INSTALLATION 1/2

3.1 Install the Aluminum J-Channel.

TIP: **It is extremely important that the J-channel is level on each wall and level from wall to wall.**

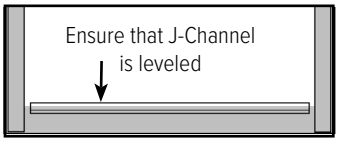


Figure 3.1.1

3.1.1 Set the J-channel on the base reveal, center it on the wall and level it as shown in Figure 3.1.1.

3.1.2 The J-Channel overlaps the base reveal by 1" as shown in Figure 3.1.2.

3.1.3 If the J-channel is level, fasten it to the cab shell using the #10 x ¾ inch self-tapping screws provided in the hardware kit.

3.1.4 If the J-channel is not level, find the high end of the channel and fasten it to the cab wall using a self-tapping screw mentioned above.

3.1.5 Bring the low end of the J-channel up to level and fasten to the cab shell.

3.1.6 Repeat steps 3.1.1 through 3.1.5 for Elevation "B" & "C".

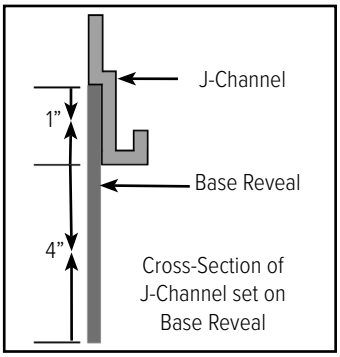


Figure 3.1.2

3.2 Install Bottom and Hand Rail Panels.

TIP: **We recommend installing the bottom panel on all walls before any of the upper panels. This is to ensure all panels are level with the adjacent panels on all walls.**

3.2.1 Set Bottom panel groove on the J-Channel as shown in Figure 3.2.1.

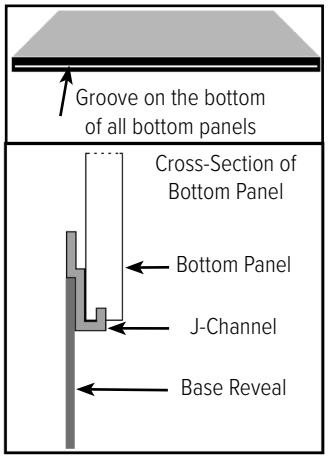


Figure 3.2.1

3.2.2 Fasten the top of the panel to the cab shell with the provided screws.

3.2.3 Repeat steps 3.2.1 through 3.2.2 for Elevation "B" & "C" as shown in Figure 3.2.3.

3.2.4 Place Panel "A-2" flush on top of Panel "A-1" as shown in Figure 3.2.4. Fasten the top of the panel to the cab shell. Repeat steps for "A-3".

3.2.6 Repeat steps 3.2.4 through 3.2.5 for Elevation "B" & "C" for the rest of the Panels. Ensure all the bottom panels are levelled.

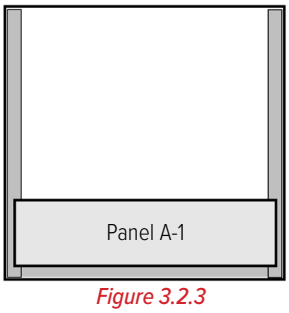


Figure 3.2.3

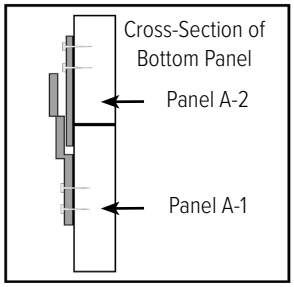


Figure 3.2.4

REVEAL INSTALLATION 2/2

2.4 Install Vertical Flat Reveals.

TIP: **Our standard vertical reveal that fits between upper wall panels is 2" wide and has a length that will reach from 1" below the top of the hand rail panel to the top of the vertical panel.**

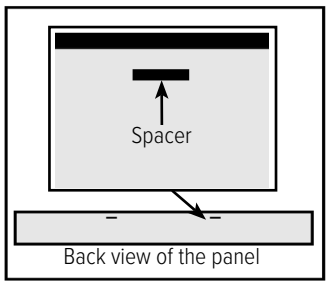


Figure 2.4.2

2.4.1 Mark the center line for each vertical reveal on cab shell following the dimensions provided on the drawing.

2.4.2 A spacer is glued on the back of the hand rail panel for each reveal to rest on when installed. The spacer is approximately 1" below the top edge of the hand rail panel so the end of the reveal is not visible as shown in Figure 2.4.2.

2.4.3 Apply adhesive on vertical flat Reveal as shown in Figure 2.4.3.

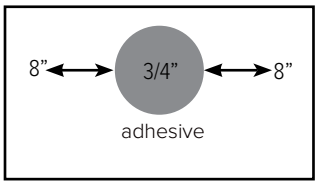


Figure 2.4.3

TIP: **If you have an even number of wall panels, we suggest starting in the center of the wall to ensure that everything is centered on the wall.**

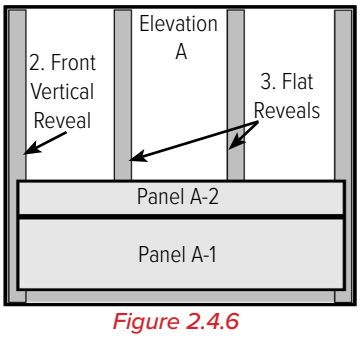


Figure 2.4.6

2.4.4 Center the vertical reveal between the two brackets on top of the handrail panel.

2.4.5 Set the bottom edge of the reveal on top of the hand rail spacer and level the reveal before pressing it against the wall as shown in Figure 2.4.6.

2.4.6 Be sure to level the reveal and apply light pressure to distribute the adhesive evenly.

2.4.7 Repeat steps 2.4.1 through 2.4.6 for Elevation "B" and "C", as applicable. Ensure all the handrail panels are levelled.

5 HYBRID PANEL SYSTEM
PANEL INSTALLATION 2/2

3.1 Install Wall Template.

TIP: **Templates are required for vertical systems to locate the mounting clips on the cab walls. Your wall kit includes one template for elevation A and C as they are normally identical and one for elevation B.**

3.1.1 If your cab has an even number of panels for wall "A" you will start in the front corner where panel "A-1" will be located. If your cab has an odd number of panels we recommend starting with the center panel location.

3.1.2 Place template marked "Elevation A/C Template" on Panel A2 as shown in Figure 3.1.2.

3.1.3 Level the template if required and screw it to the wall. It is extremely important that each panel is level for proper alignment.

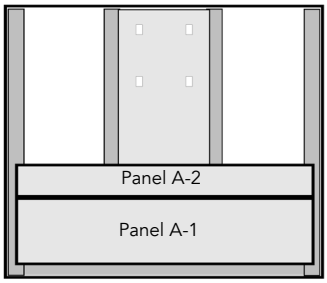


Figure 3.1.2

3.2 Install Z-Clips.

TIP: **The system is designed for a ½ inch gap between each panel and centered between each adjacent wall as shown in Figure 3.2.**

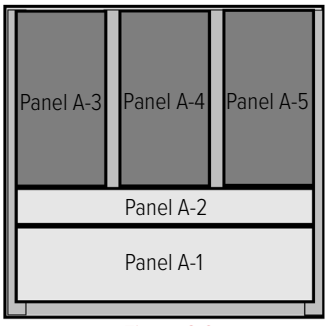


Figure 3.2

3.2.1 Fasten Z-clips to the cab wall at each open slot in the template as shown in Figure 3.2.1.

3.2.2 Be sure that the Z-clip does not rotate when you tighten the mounting screws as this will result in mis-alignment with the mating Z-clip.

3.2.3 After all wall clips are installed, remove the screws holding the template in place and slide template over to the location of the next panel.

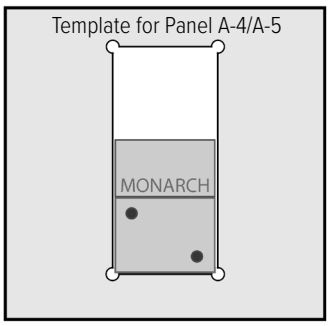


Figure 3.2.1

3.2.4 Repeat steps "3.1.2" through "3.2.3" for all of the remaining panel clips on elevations "A","B" and "C".

TIP: **Apply a small dab of adhesive on a couple of Z-Clips to avoid vibrations.**

3.2.5 Locate the wall panels for each wall to install them. Install the top panel by lifting the panel above the Z-Clips and sliding the panel down to interlock the Z-Clips.

6 HYBRID PANEL SYSTEM
RAIL INSTALLATION 1/2

If your installation utilizes threaded toggle bolts, please proceed to the Patented Standoff System Installation Instructions.
If your installation utilizes plastic straps, please refer to the In-Cab Removable Handrail Installation Section.

1.1 Install the Hand Rail - Patented Standoff System Installation.

TIP: **If your panel system was ordered with hand rails, the wall panels will have pre-drilled holes at each stand off location. The holes are 1/2" in diameter.**

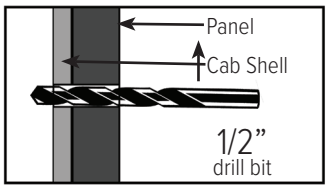


Figure 4.1.1

4.1.1 Drill a 1/2" hole in the cab shell at each panel hole location as shown in Figure 4.1.1.

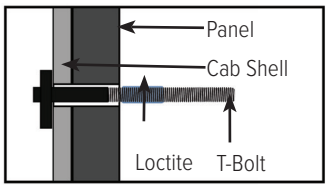


Figure 4.1.2

4.1.2 Insert a 3/8" T-bolt through the hole and push the stud in until the toggle drops outside of the elevator cab shell as shown in Figure 4.1.2. Apply a few drops of Loctite to the threads.

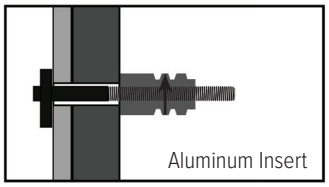


Figure 4.1.3

4.1.3 Thread the ¾" aluminum insert onto the T-bolt as shown in Figure 4.1.3.

4.1.4 Tighten the aluminum insert using a 5/8" wrench on the flats of the aluminum insert.

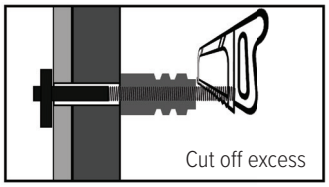


Figure 4.1.5

4.1.5 Cut the excess 3/8" stud off with a hacksaw as shown in Figure 4.1.5.

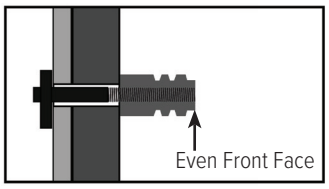


Figure 4.1.6

4.1.6 Make sure the front face of the aluminum insert is flush with the T-Bolt as shown in Figure 4.1.6.

1.7 Repeat steps 4.1.1 through 4.1.6 for all remaining mounting holes.

TIP: **The two allen set screw holes located on each hand rail stand off should be facing down and not be visible from the top.**

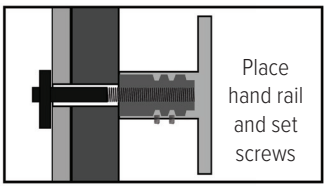


Figure 4.1.8

4.1.8 Locate the correct hand rail for wall "A" and slide the hand rail stand offs over the aluminum inserts until the stand offs are tight against the wall panel as shown in Figure 4.1.8.

4.1.9 Insert two allen set screws into each stand off and tighten using a 5/64" allen wrench as shown in Figure 4.1.9.

4.1.10 Make sure the hand rail is pushed tight against the panel before tightening set screws. Allen set screws will recess completely if hand rail is completely installed.

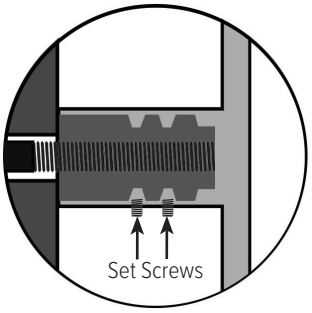


Figure 4.1.9

4.1.11 Repeat steps 4.1.8 through 4.1.10 for the remaining hand rails.

4.2 Install the Bumper Rail.

4.2.1 For bumper rail installation, repeat steps 4.1.1 through 4.1.10.

RAIL INSTALLATION 2/2

4.3 Install the Hand Rail - In-Cab Removable Standoff System Installation

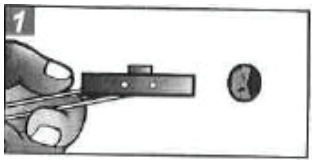


Figure 4.3.1

4.3.1 Drill a 1/2” hole in the cab shell at each panel hole location as shown in Figure 4.3.1. Hold metal channel flat alongside plastic straps and slide channel through pre-drilled hole.

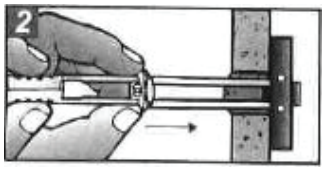


Figure 4.3.2

4.3.2 With one hand, pull rign so metal channel rests flush behind the cab shell. Slide plastic cap with other hand until flange of cap is flush with wall panel as shown in Figure 4.3.2.

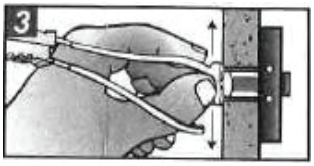


Figure 4.3.3

4.3.3 Place thumb between strap. Push thumb side to side, snapping off straps level with flange cap as shown in Figure 4.3.3.

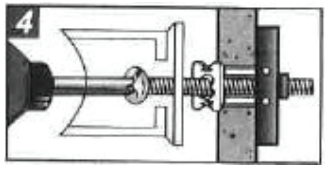


Figure 4.3.4

4.3.4 Place spacer over flange. Insert bolt and tighten until snug against cab wall and then stop. (Use only 1/4” -20 bolt (be conscience of cab wall to shaft wall clearances for any excess bolt length.) Figure 4.3.4

4.3.5 Repeat steps 4.3.1 through 4.3.4 for all remaining mounting holes.

4.4 Install the Bumper Rail.

4.4.1 For bumper rail installation, repeat steps 4.3.1 through 4.3.4.