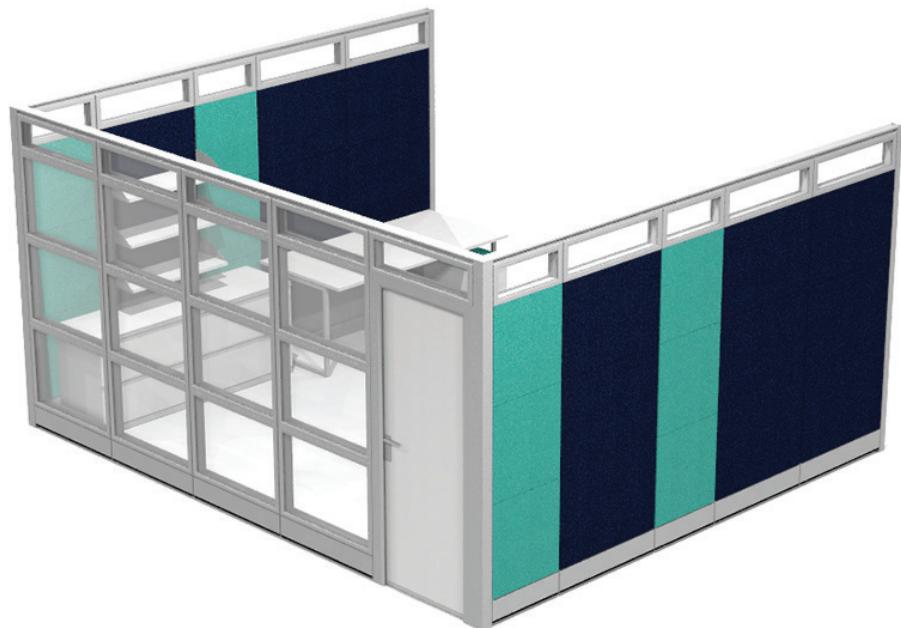




SAPPHIRE WALL SYSTEM

Installation Guide



84" H-108" H

Tools Needed for Installation



Drill Bits



1/4 Driver



Clamp



Mallet



Screw Gun



Allen Keys



Chop Saw



Level



Pry Bar

Quick Tips

1. Unpack all product before assembly
2. Hang door last on install
3. 3 person installation
4. Make sure all panels are level
5. Frame entire office and lock to wall before hanging tiles.
6. Professional installation recommended.
7. **If your floor plan does not fit exactly with our sizes we suggest the following: A contractor may be hired to build out wall to meet measurements. This is called a knee wall and very common in the industry when odd measurements are left. This will make a finished look.

Identifying Parts



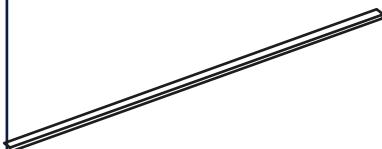
1/2" Hex Bolts- for connectors

1" Hex Bolts- for panel to panel connectors

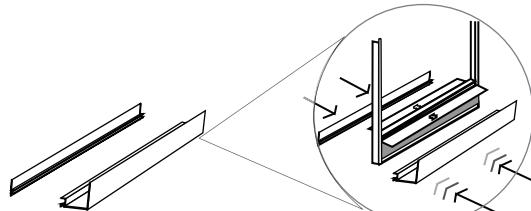
3" Hex Bolts- for wall starter



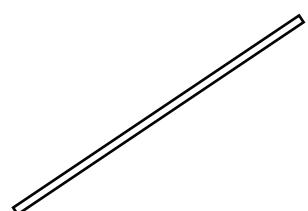
2" Sheet Metal Screws
for top beam.



Top Beam

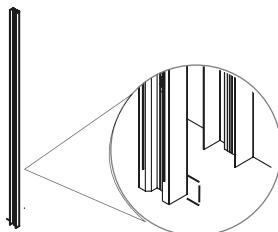


Bottom Track



Spacer

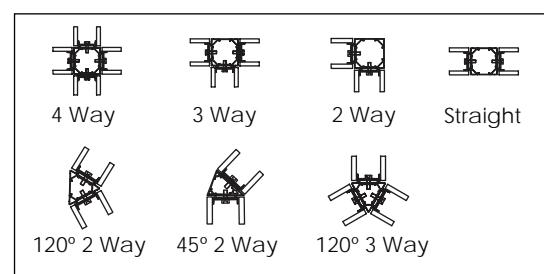
Spacer Threaded
and not Threaded



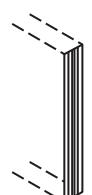
Wall Starter



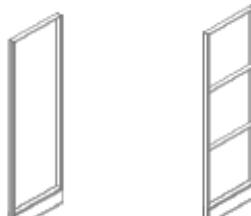
Stack up
Connector



Connectors



End Trim



Full Slab
Frame

Panel
Frame



Panel Topper- 10"
Panel Topper- 20"

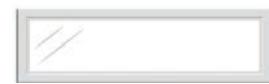
Tiles



Materials Vary



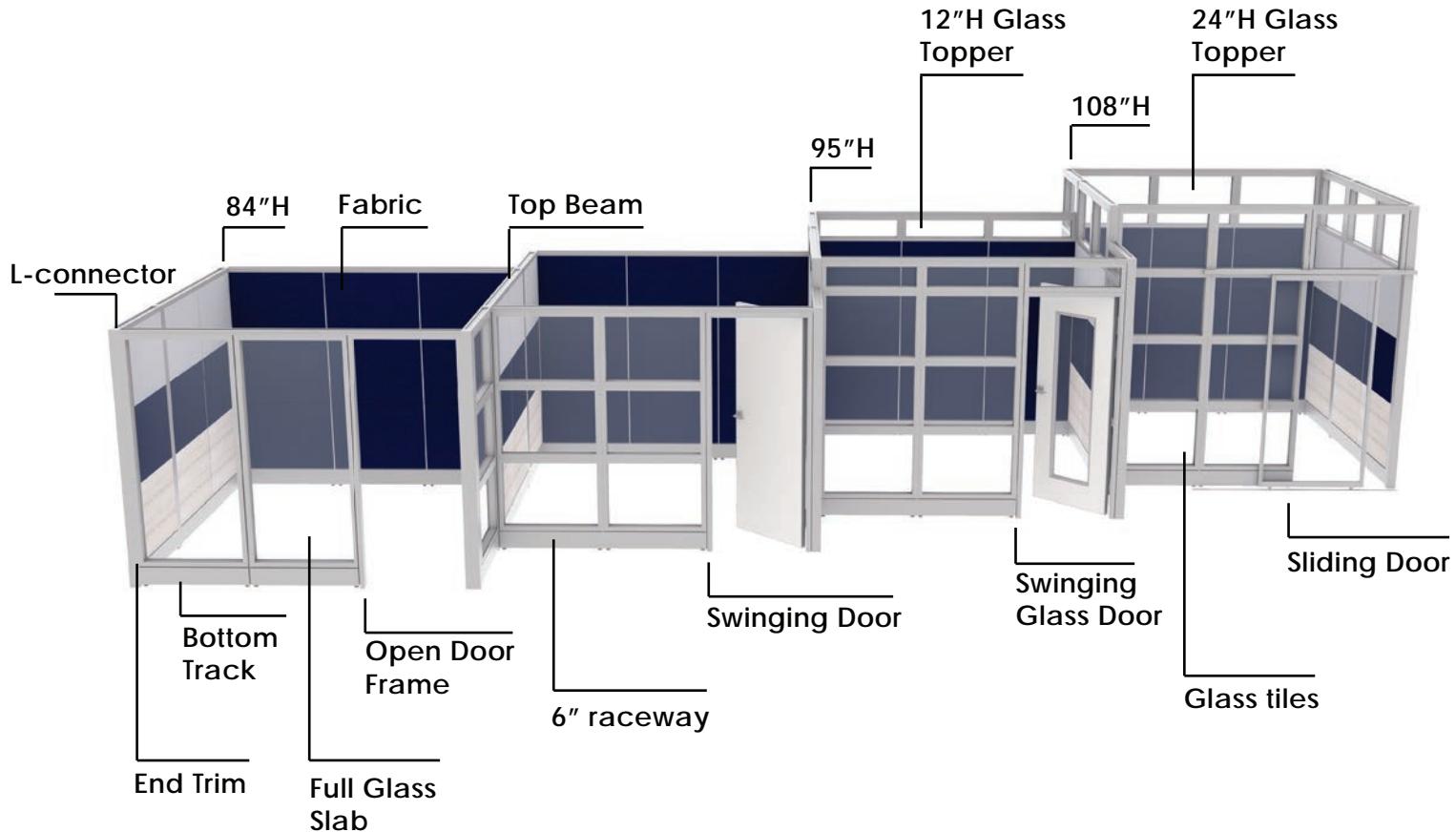
Sliding Swinging Open
Door and Frame



Glass Door Topper- 10"
Glass Door Topper- 20"
*1/2" Bigger Than regular Glass

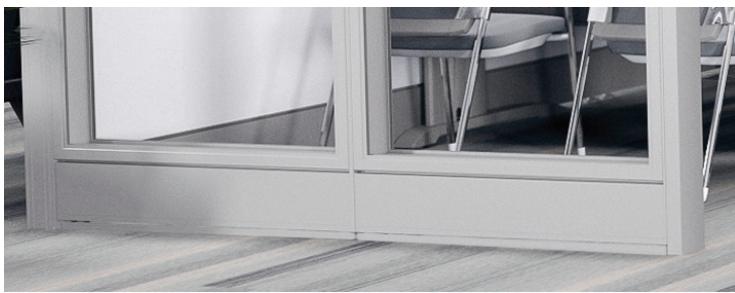


Light Blockers
Small/Large

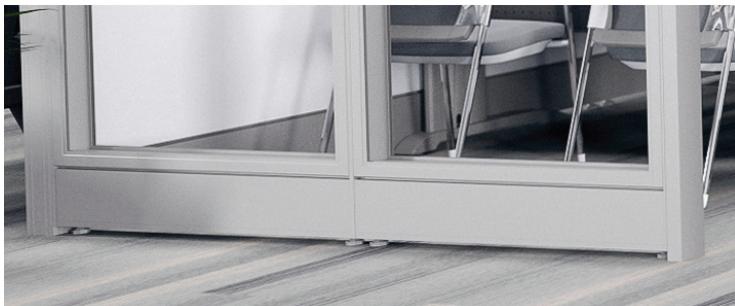


Example of bottom track option

With bottom track



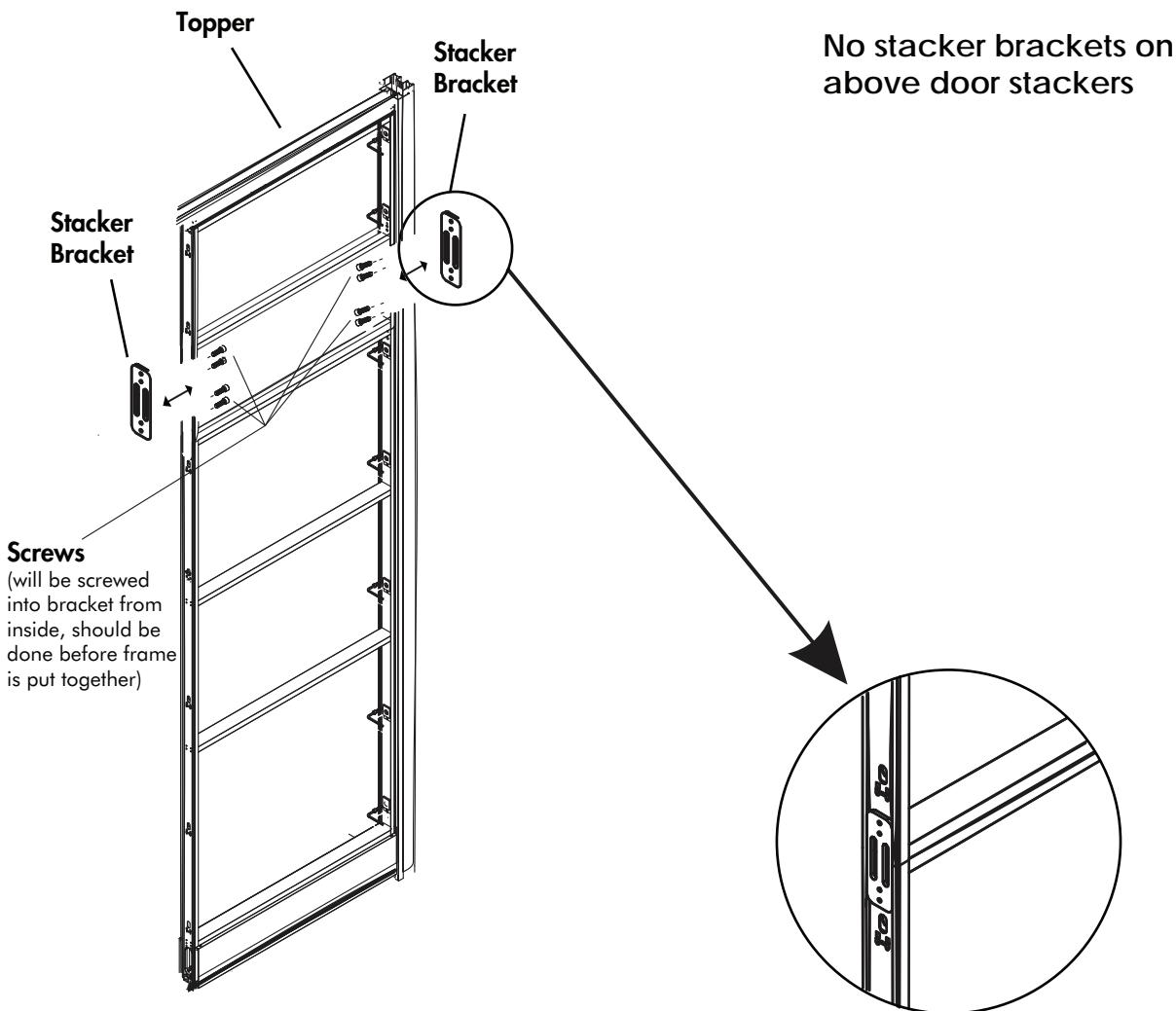
Without bottom track



Step 1: (for 95"H and 108"H only)

Attach glass topper to the wall system using the bracket shown (84" H wall system will not need a topper). **Please attach stacker brackets and stacker frame before putting panels together.**

Above door glass is
1/2" larger



*95"H wall system will have a 11"H topper

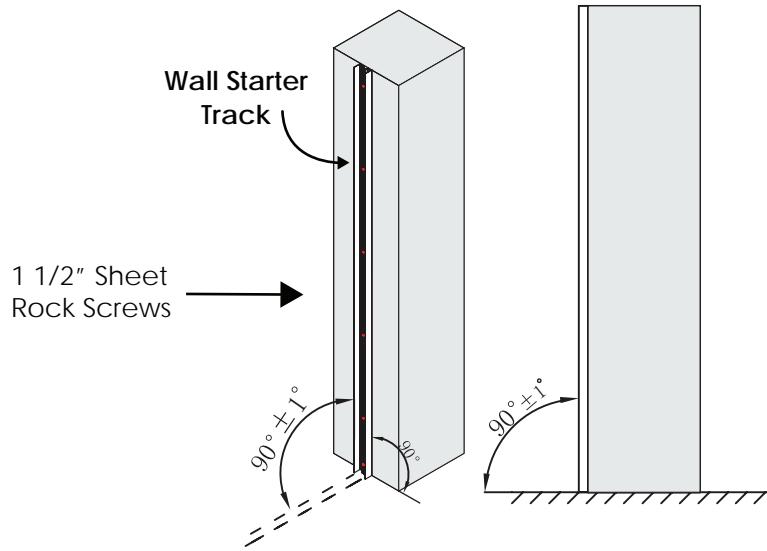
*108"H wall system will have a 24"H topper

View Installation video here:

<https://youtu.be/ULel-iZAwAk>

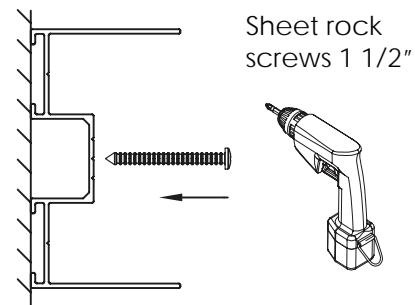
Step 2:

Locate the starting point of the project and install your first wall starter sleeve. After that is installed attach the wall starter post for your first frame. **Use 3 in hex bolts.**



No pre-drilled holes.

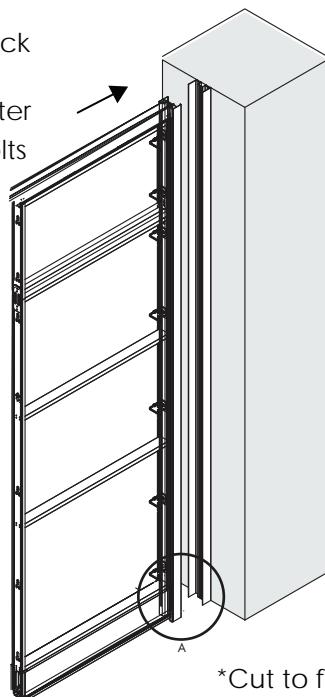
Please use drill bolt and tap holes through frame. Then install sleeve on the wall



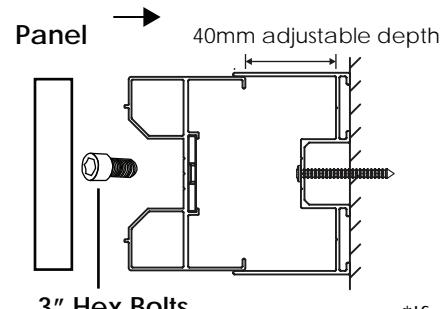
Fix the side groove into wall

Step 3:

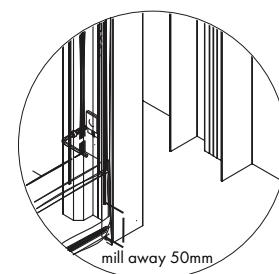
Slide frame into track
Connect Wall Starter
To panel using 3" hex bolts



*Cut to fit wall starter
over molding.



*Wall starters can
adjust up to 1"



*If a connector needs to be
attached to a wall, make
pilot holes on the panel side
and screw through the other
side into the wall

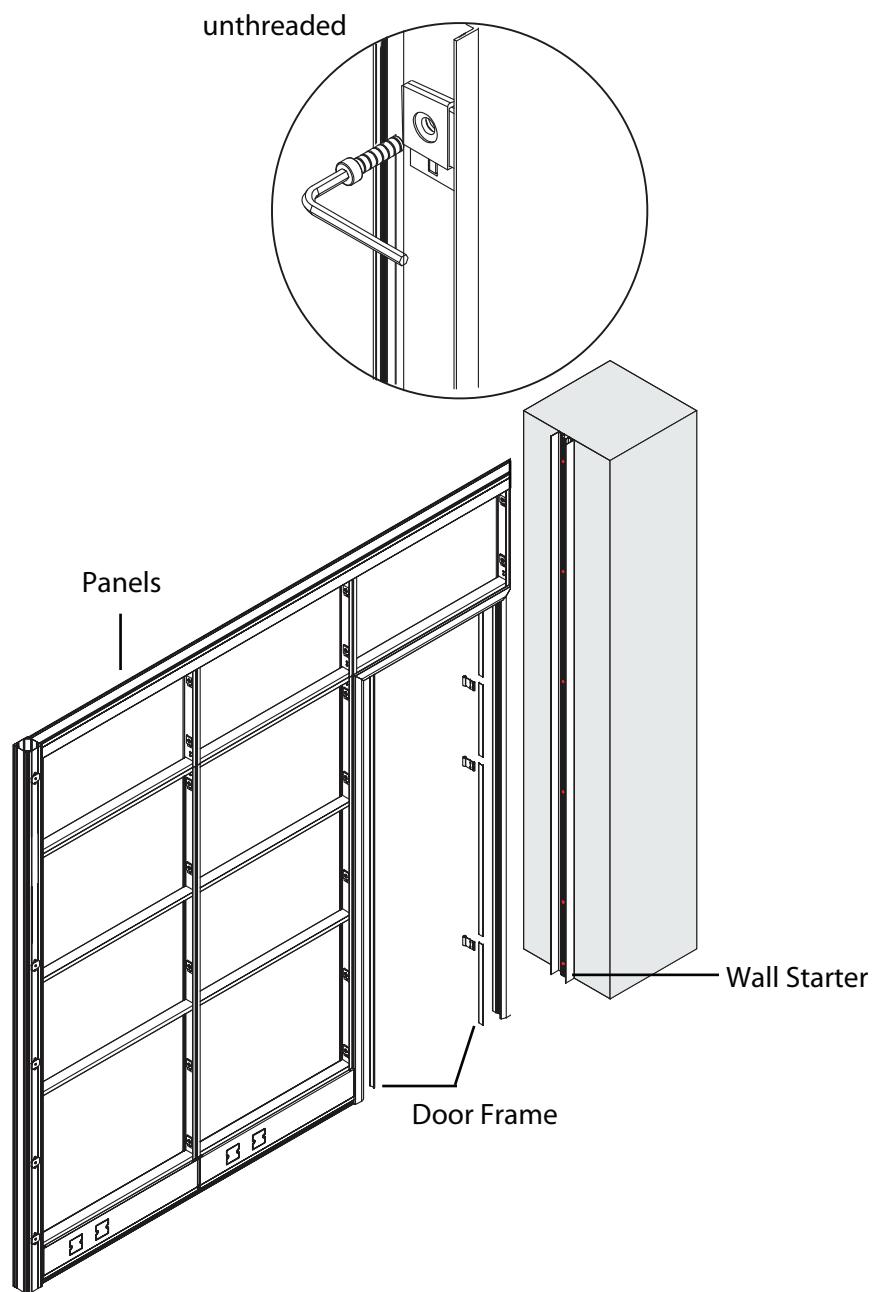
Insert the side pole to the side groove.
Side pole is processed as photo and
fixed with panel connectors.

View Installation video here:

<https://youtu.be/jMRIdvsThrQ>

Installing Door Against A Wall Starter

*Note: Whenever you are installing a door directly against a wall starter, be sure to remove the threaded washers and replace them with unthreaded washers to connect the door properly.

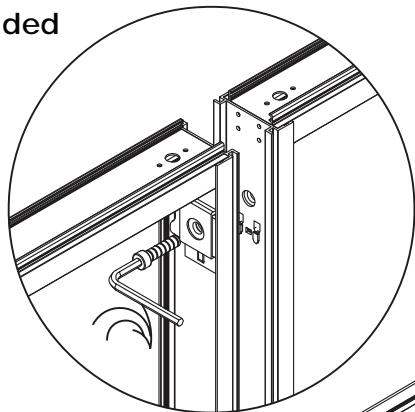


Straight Connectors

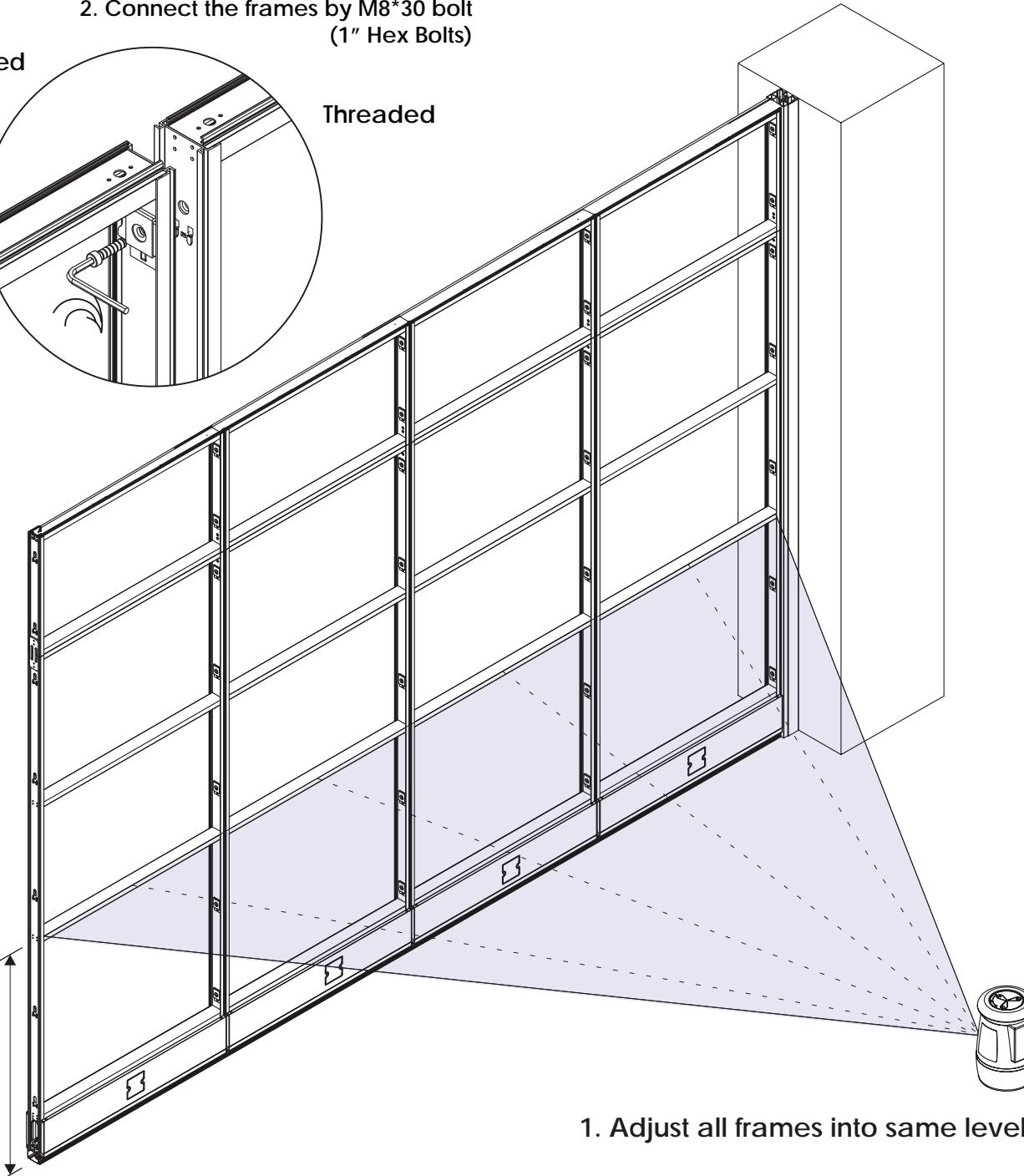
*Make sure everything
is level

2. Connect the frames by M8*30 bolt
(1" Hex Bolts)

Unthreaded



Threaded

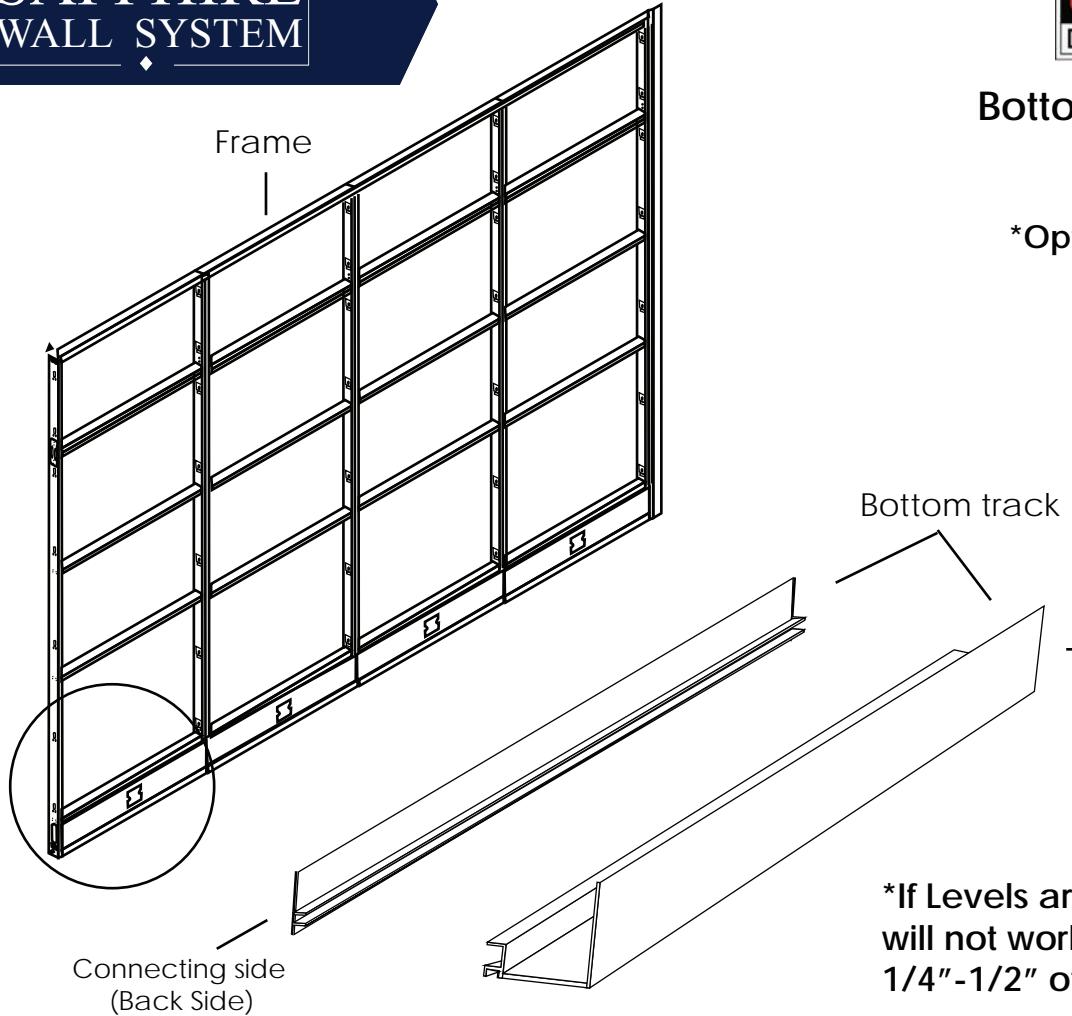


1. Adjust all frames into same level

Washers are threaded
and unthreaded and
can be interchanging.

View Installation video here:

<https://youtu.be/-KztYAftzi0>



Bottom track assembly for frame

*Optional- Not needed for structural support

*Cut to size

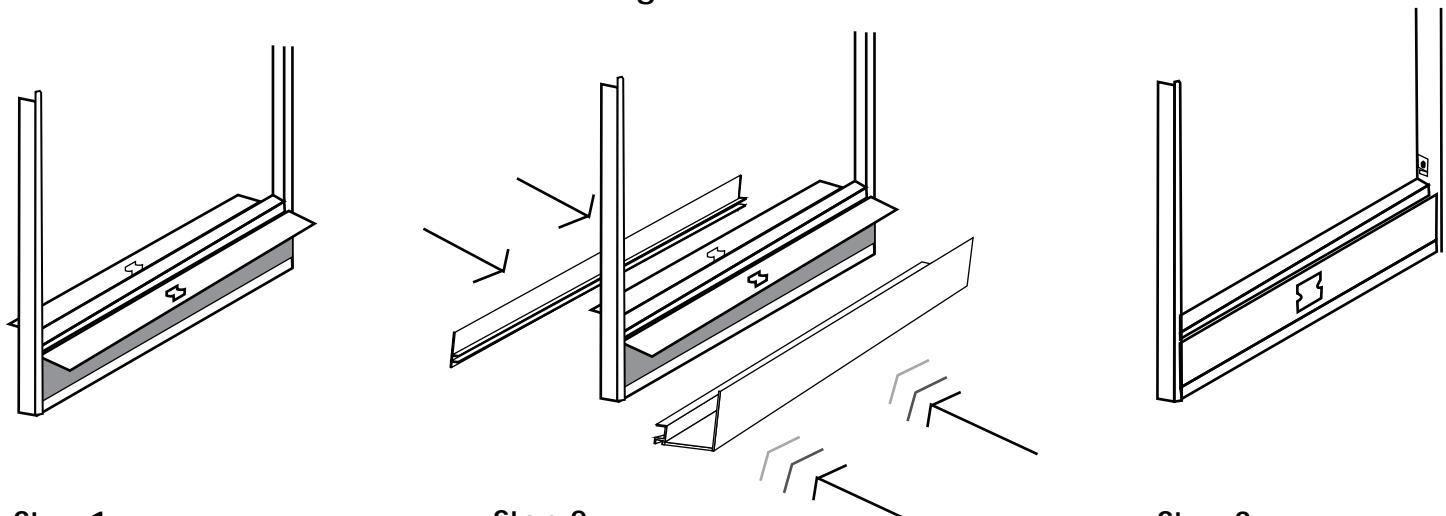
*Install before tiles

Bottom track

L-shaped side
(Front Side)

*If Levels are flush to floor this will not work. Must extend levels 1/4"-1/2" of an inch.

*Assemble bottom track before attaching tiles to frame



Step 1:

Open bottom raceways

Step 2:

Slightly lift frame a half an inch

Slide L-shaped part track underneath frame. When finished connect back of track to Bottom of L-shaped part of track

Step 3:

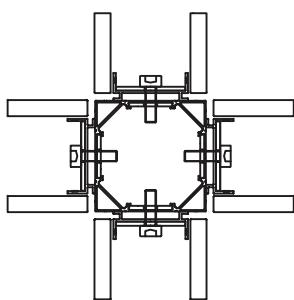
Close raceways

View Installation video here:

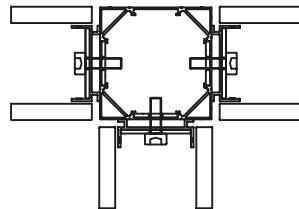
<https://youtu.be/NaZqDuL9unM>

Attaching Connectors

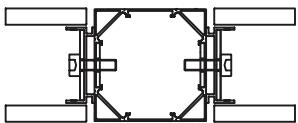
*All connectors simply bolt into panels.



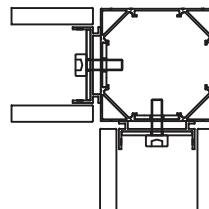
4 ways connection



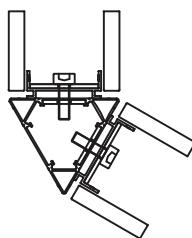
3 ways connection



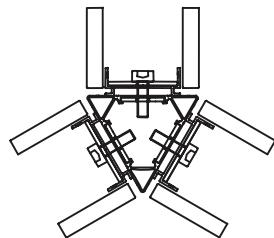
Straight Connector



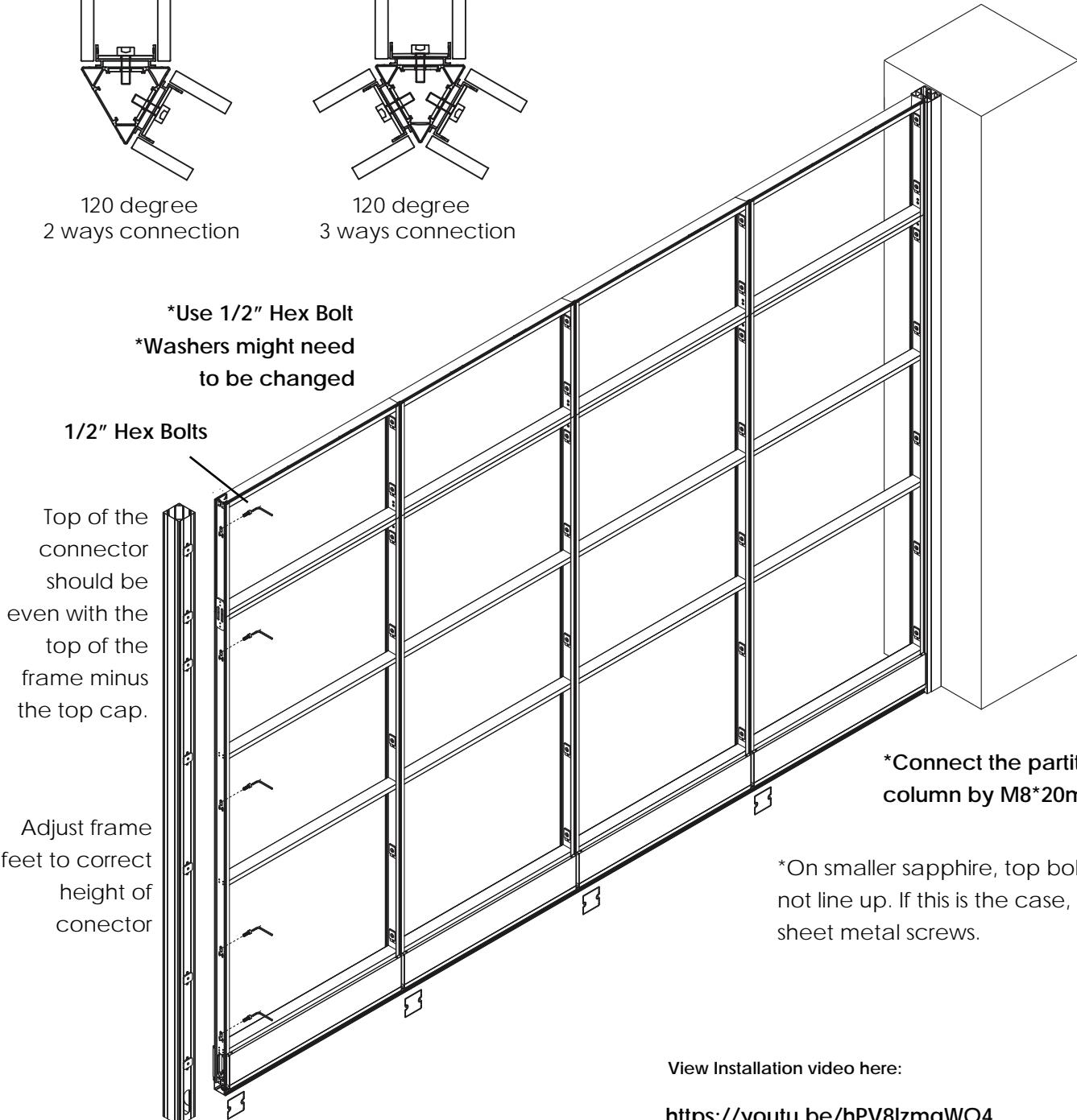
2 ways connection



120 degree
2 ways connection



120 degree
3 ways connection



View Installation video here:

<https://youtu.be/hPV8lzmqWQ4>

Attach End Trim to
Wall system

No pre-drilled holes.

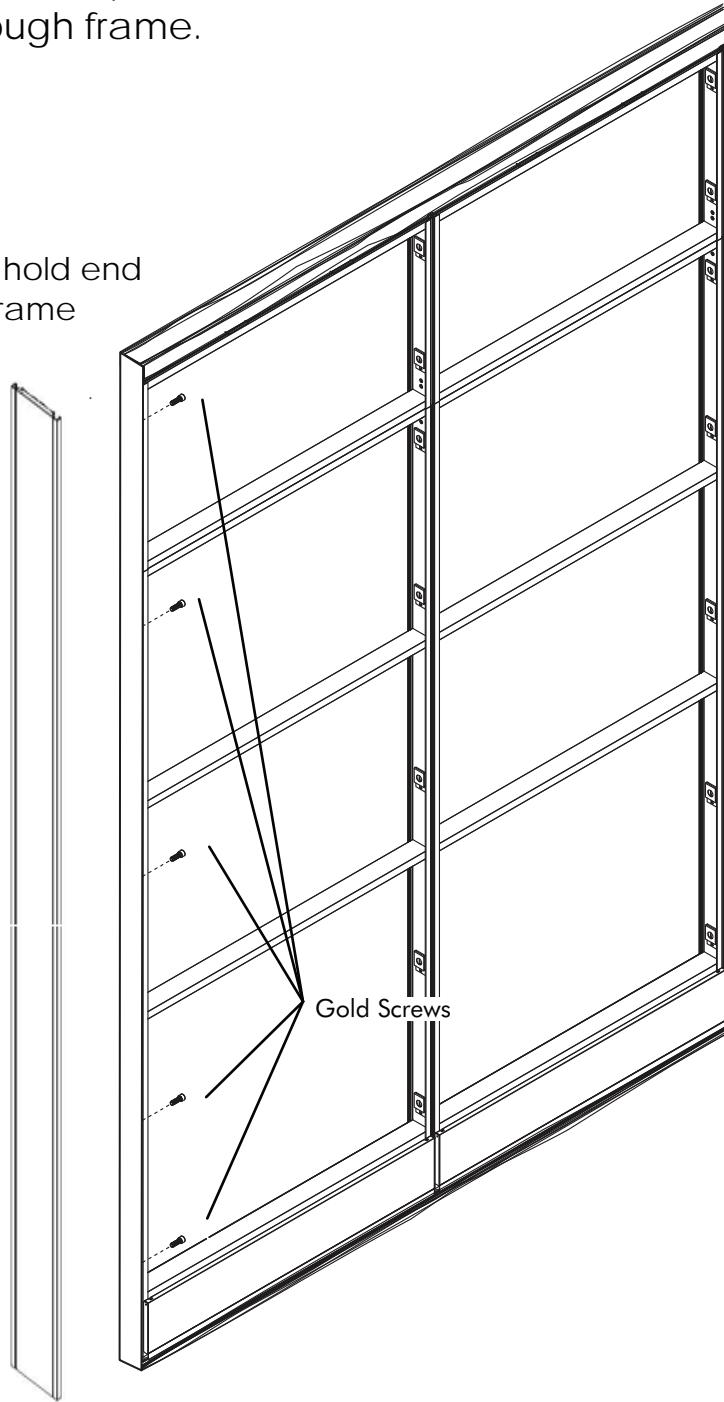
Please use sheet metal
screws (gold screws) and
tap holes through frame.

*Do not overtighten

*Use clamp to hold end
trim tightly to frame



*Use self tapping
5\8 gold screws.

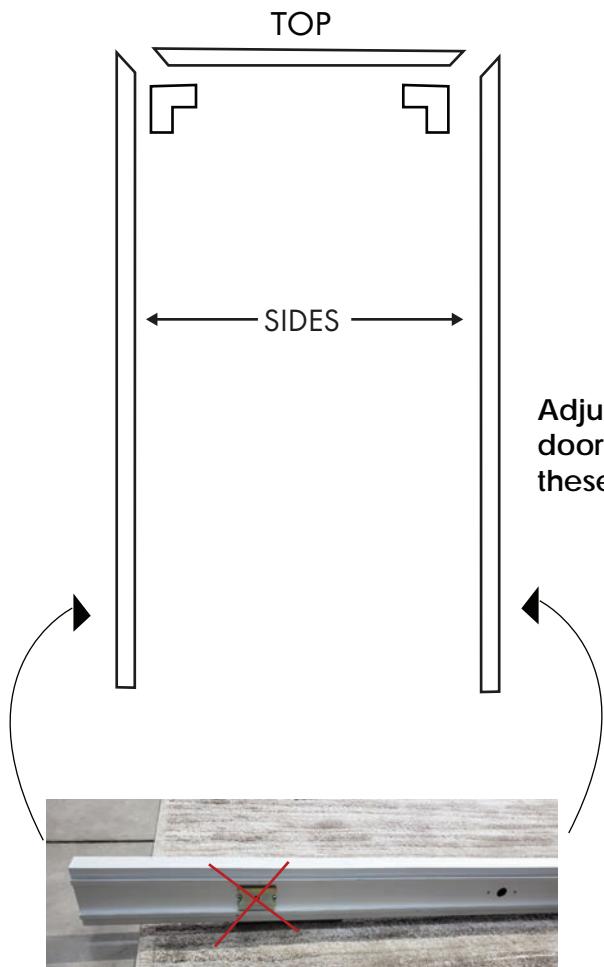


View Installation video here:

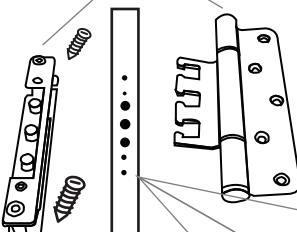
<https://youtu.be/0hgIhQg3juU>

Door Frame Assembly

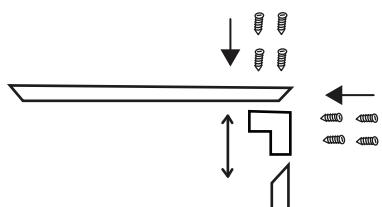
1. Arrange door frame pieces on the floor in the correct positions that they will be put together.



Adjust the door with these screws



Unscrew end screws from piece. Insert into frame so that holes match up. Attach hinge and secure with screws



Insert connector into top and side of frame and secure with screws



Parts



Assembled Frame

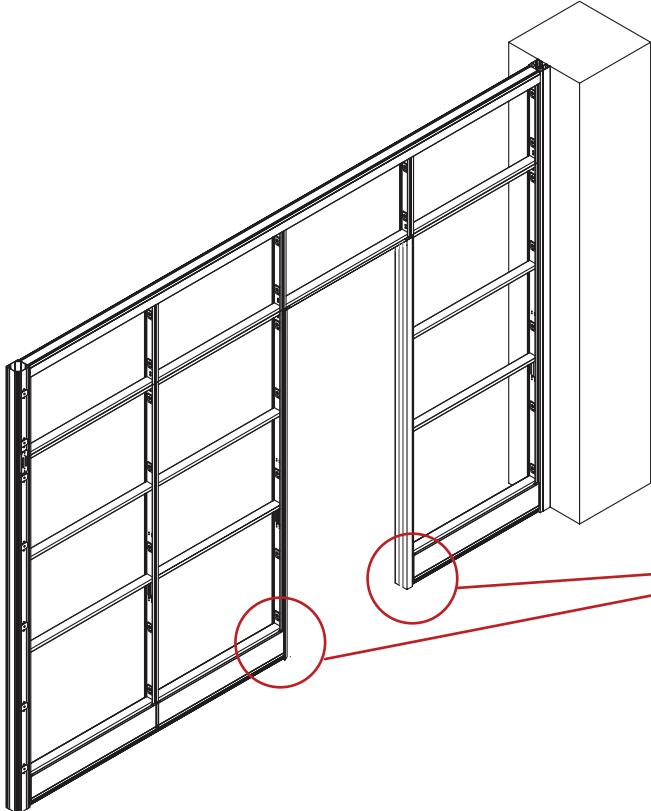


*When installing on connector please pre drill holes and use sheet metal screws

View Installation video here:

<https://youtu.be/5iAHI74A6Uc>

***This must be done before installing the door frame on to the panels**



Install a stabilizer on each panel that the door frame will be connecting to.



To install stabilizer on to panel:

Step 1: Remove screws from panel



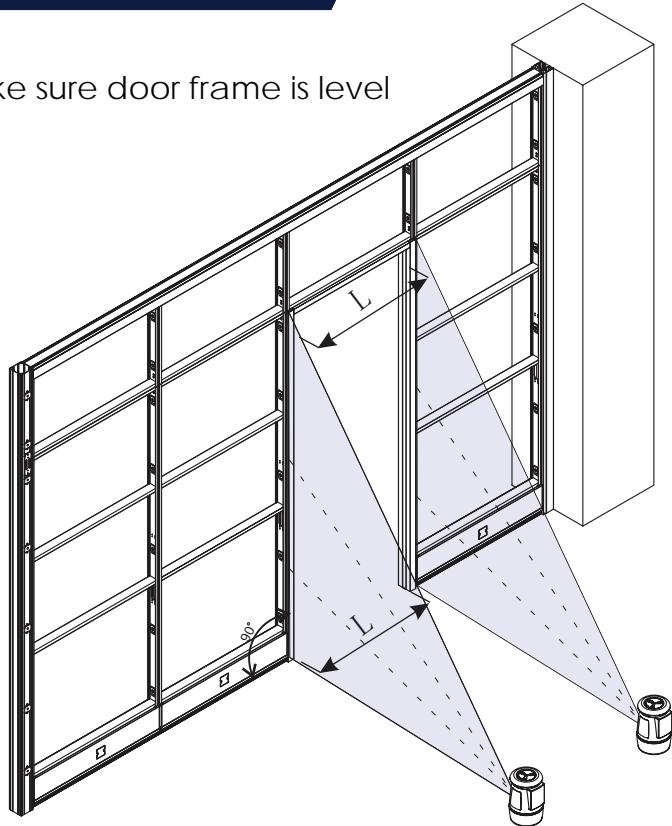
Step 2: Attach stabilizer on to panel with screws



Step 3: Attach stabilizer to floor by drilling directly into the floor and secure with screws

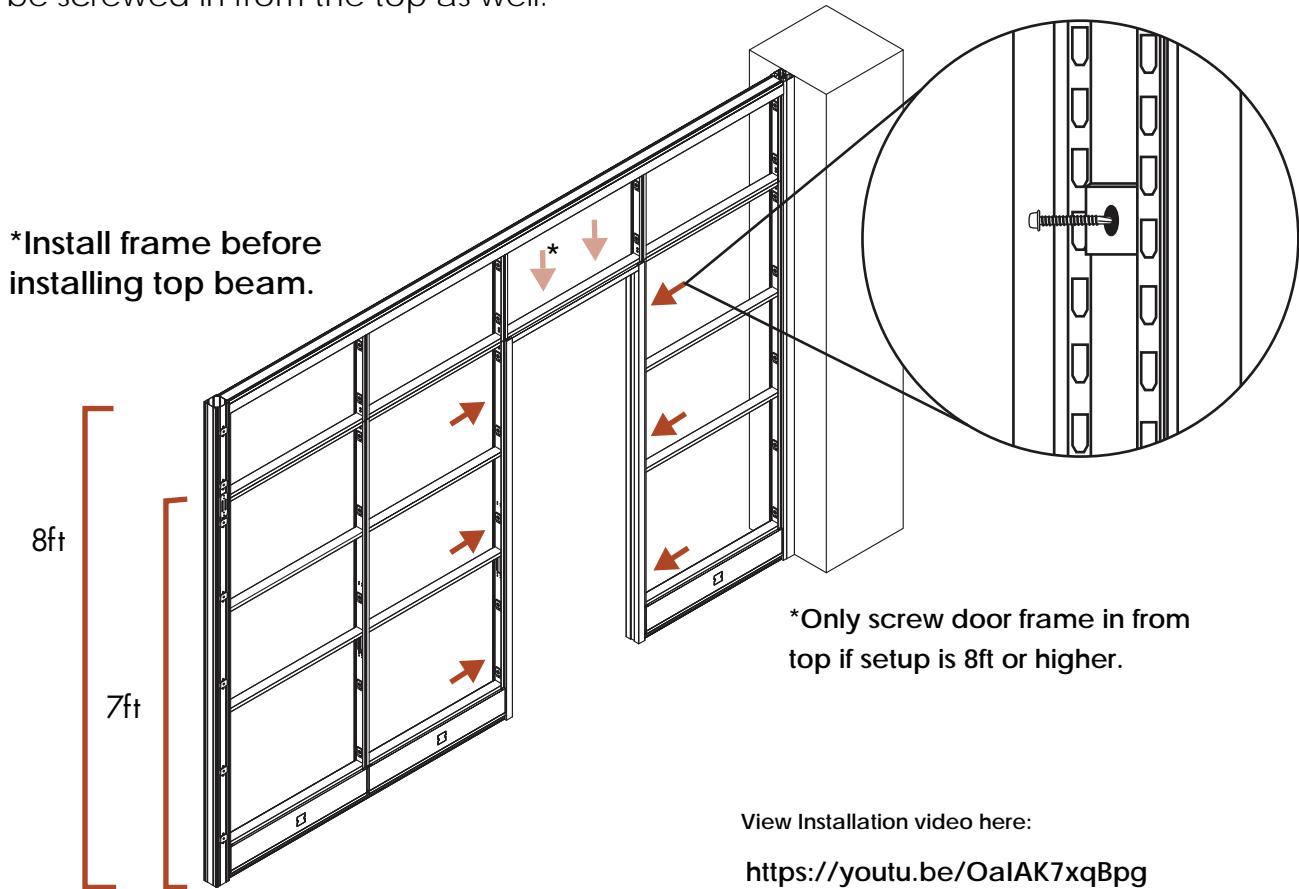


4. Make sure door frame is level



*Door frame on sliding door needs to be installed using sheet metal screws.

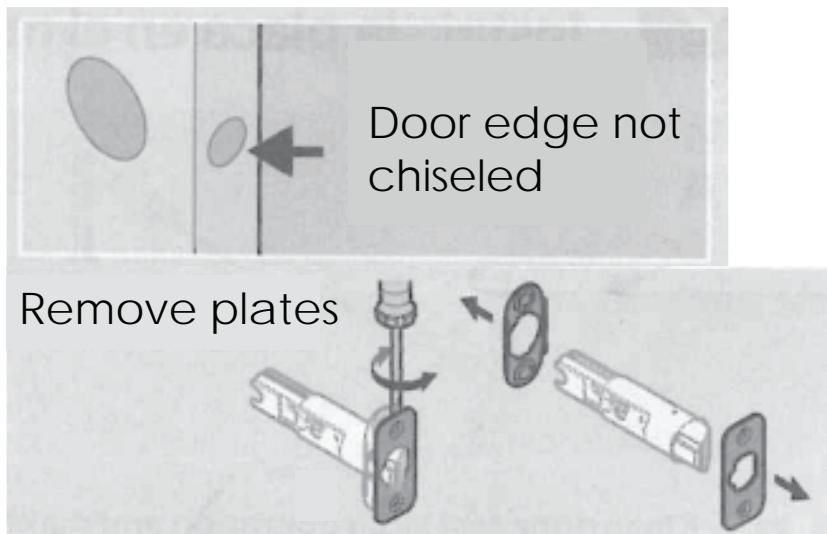
5. While tiles are off on 1 side of the wall, screw in through the panel to the frame with 1" hex bolts. 7ft walls this is the final step for the door frame assembly. 8ft walls need to be screwed in from the top as well.



View Installation video here:

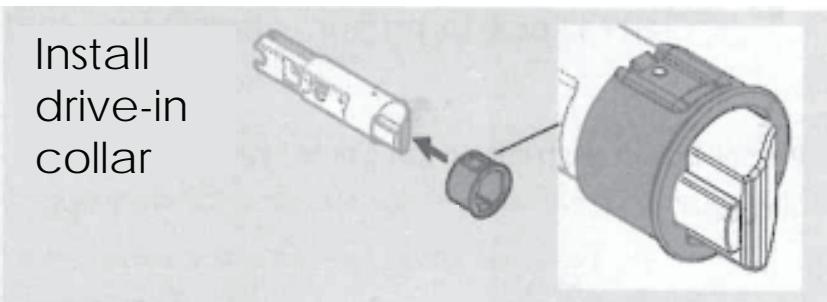
<https://youtu.be/OaIAK7xqBpg>

Step 1:

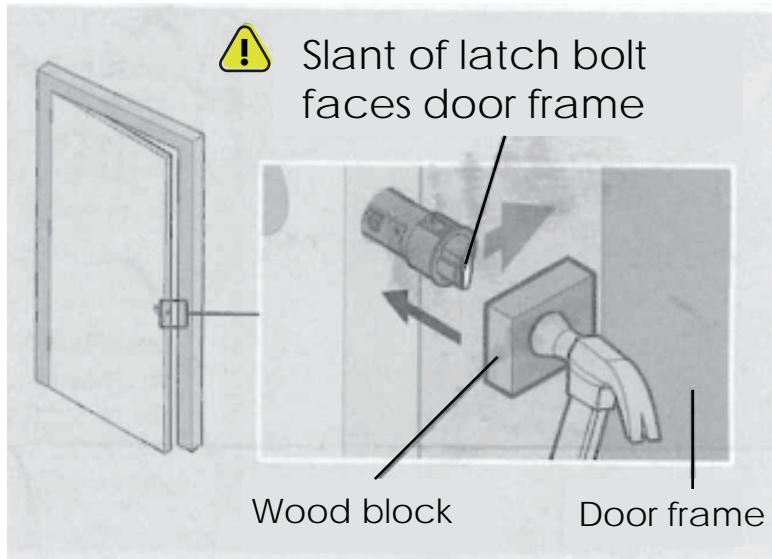


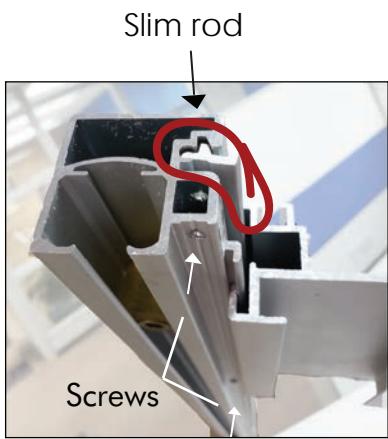
Install Door Latch

Step 2:



Step 3:

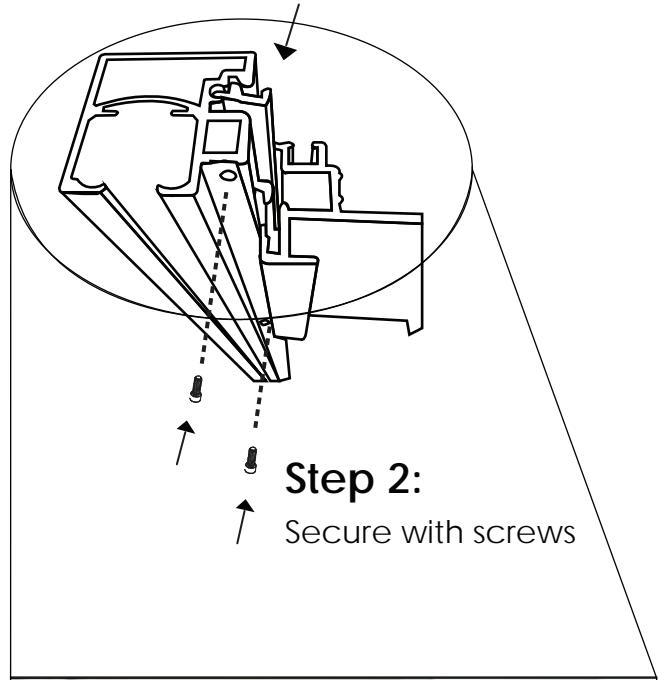




Installing slim rod to
door stabilizer beam
for sliding doors
(84" H only)

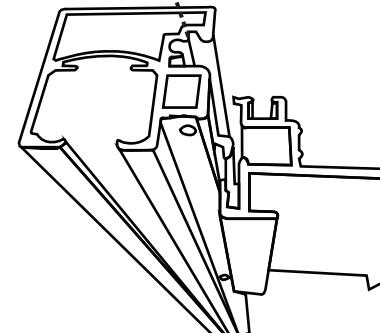
Step 1:

Insert slim rod into track of beam

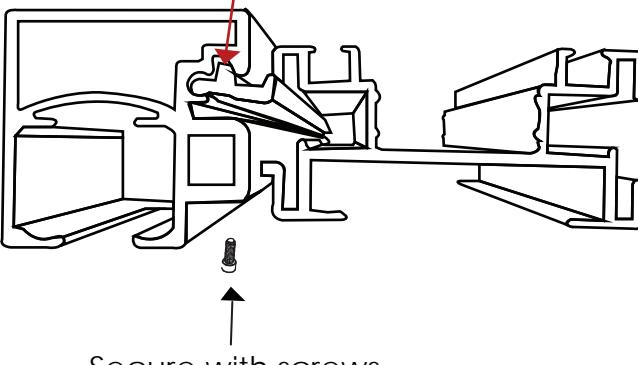
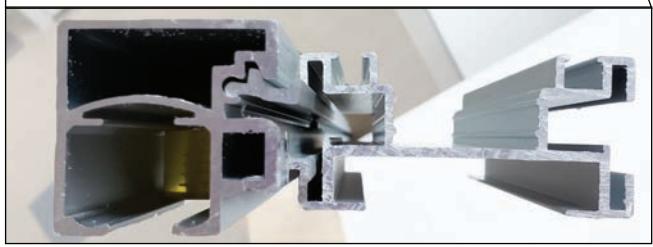


Slim rod

Insert here



Slim rod



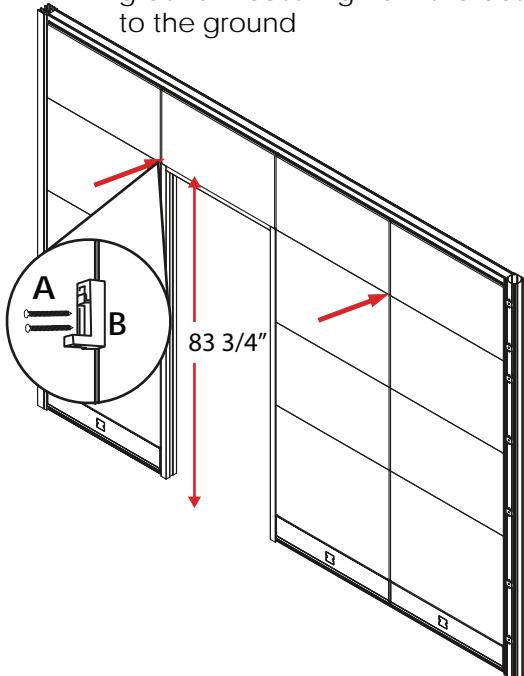
Secure with screws

View Installation video here:

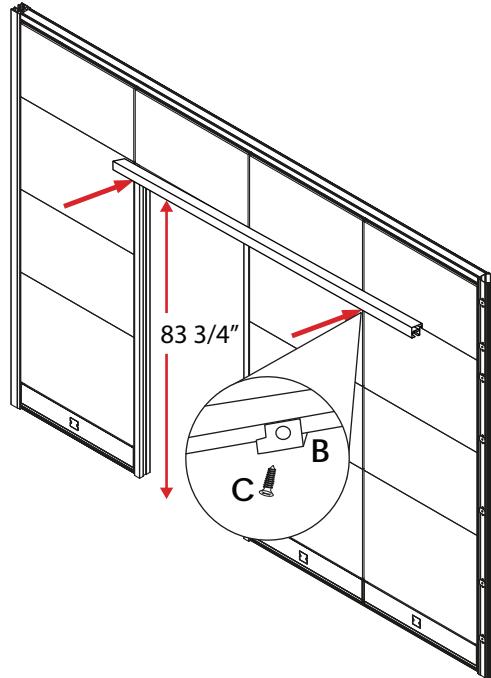
https://youtu.be/_4cBCwJAmaM

Sliding Door Assembly

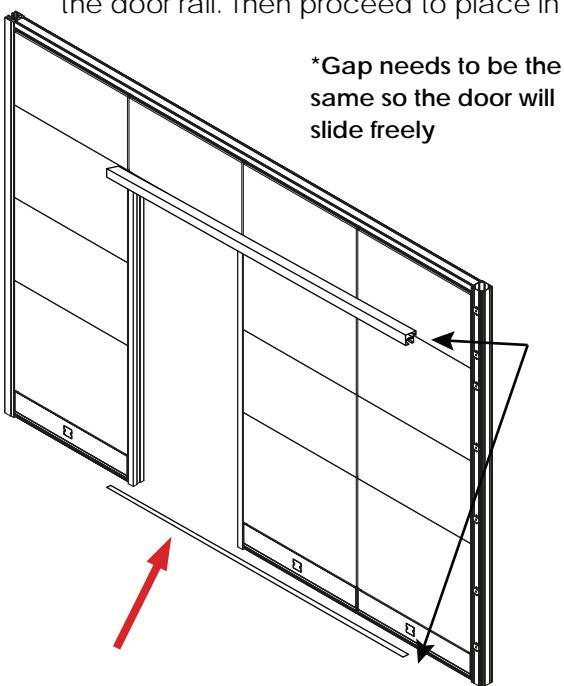
1. Screw in sliding door track directly into panel. Door rail must be placed 83 3/4" from the ground measuring from the bottom of the rail to the ground



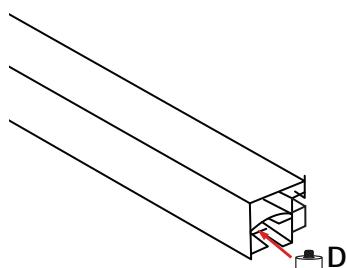
2. Place sliding door rail onto screwed in sliding door rail clips and screw in from below. Door rail must be placed 83 3/4" from the ground.



3. Place sliding door bottom track on floor using double sided tape, velcro, or glue; Lining it up with the door rail. Then proceed to place in sliding door.



4. After inserting the sliding door into the rail, secure stopper on the end

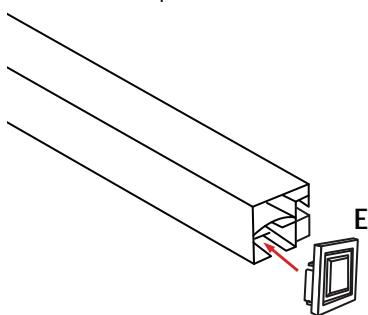


Sliding Door Lock

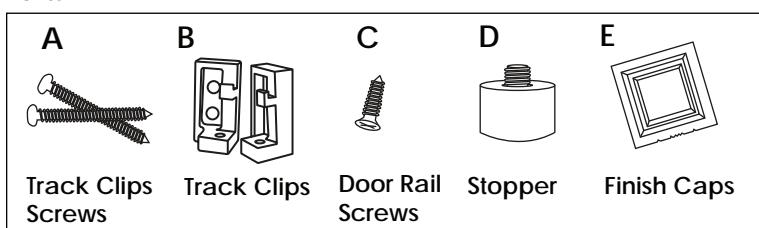


Locks are available on bottom only of sliding doors. **Spring lock**-a 1" deep hole must be drilled in floor to engage lock.

5. Place sliding door rail finish caps



Parts:

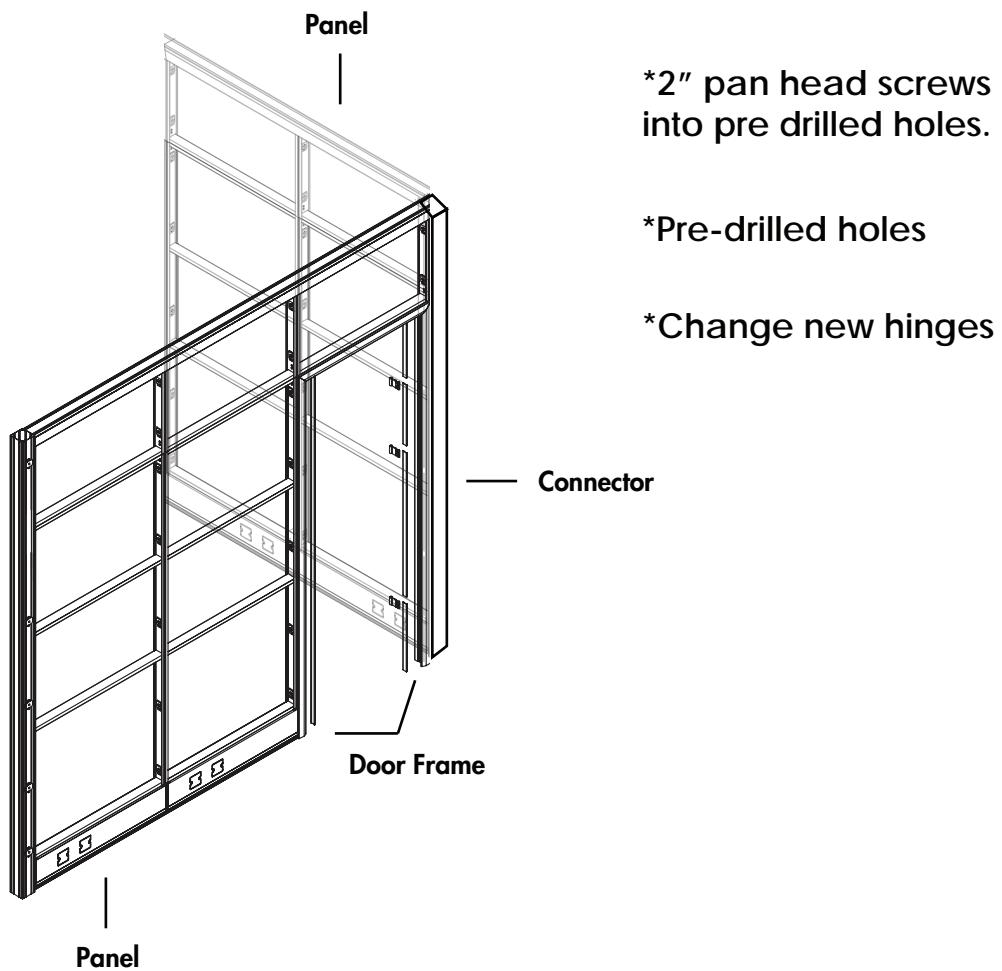


View Installation video here:

<https://www.youtube.com/watch?v=xhDhiL7eM0I>

Installing Door Frame Against Connector

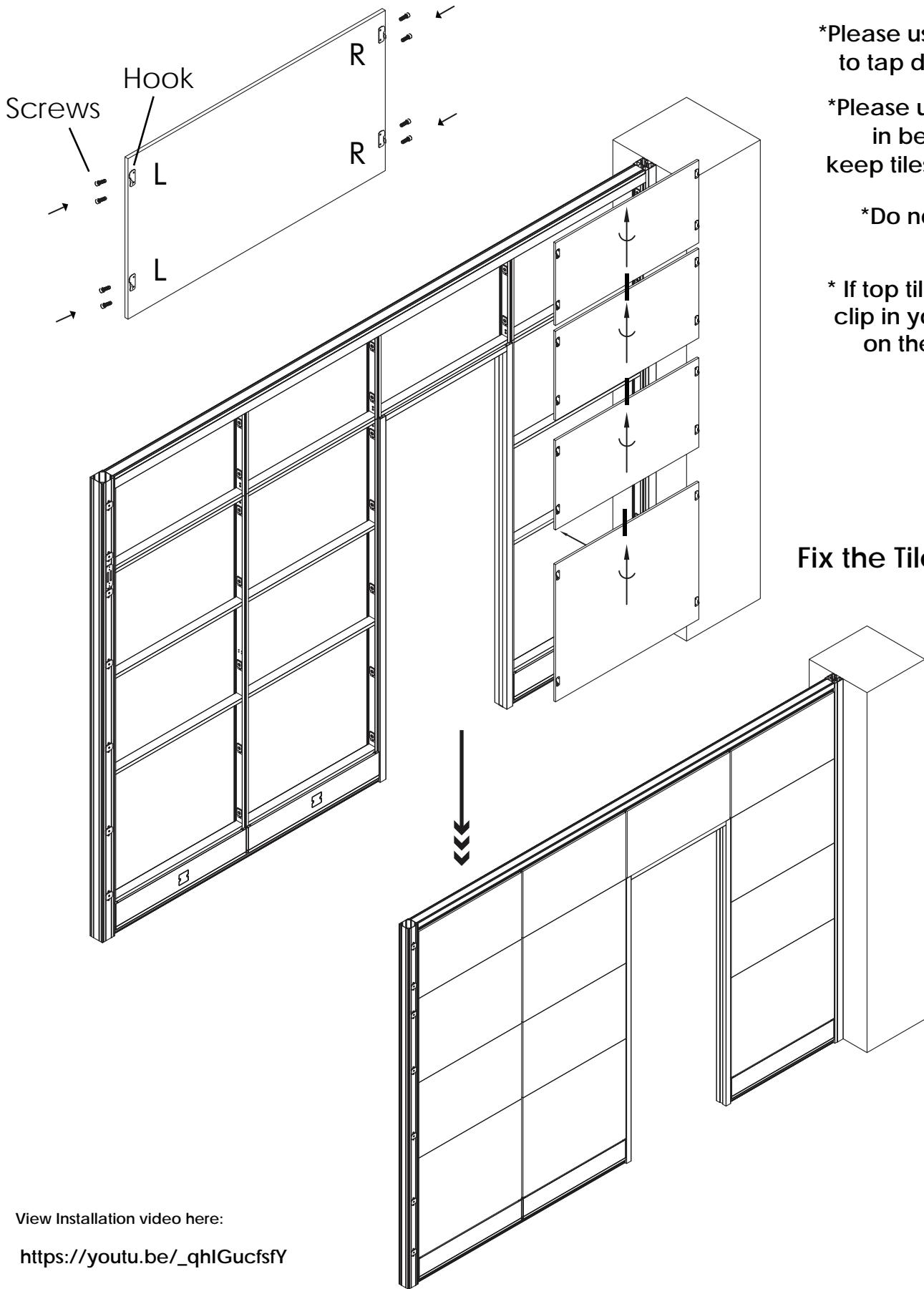
1. When installing a door frame against a connector:
Remove the white clips from the connector.
2. Use pre-drilled holes and screws to install
3. Make sure its level
4. Install door after everything else is install



View Installation video here:

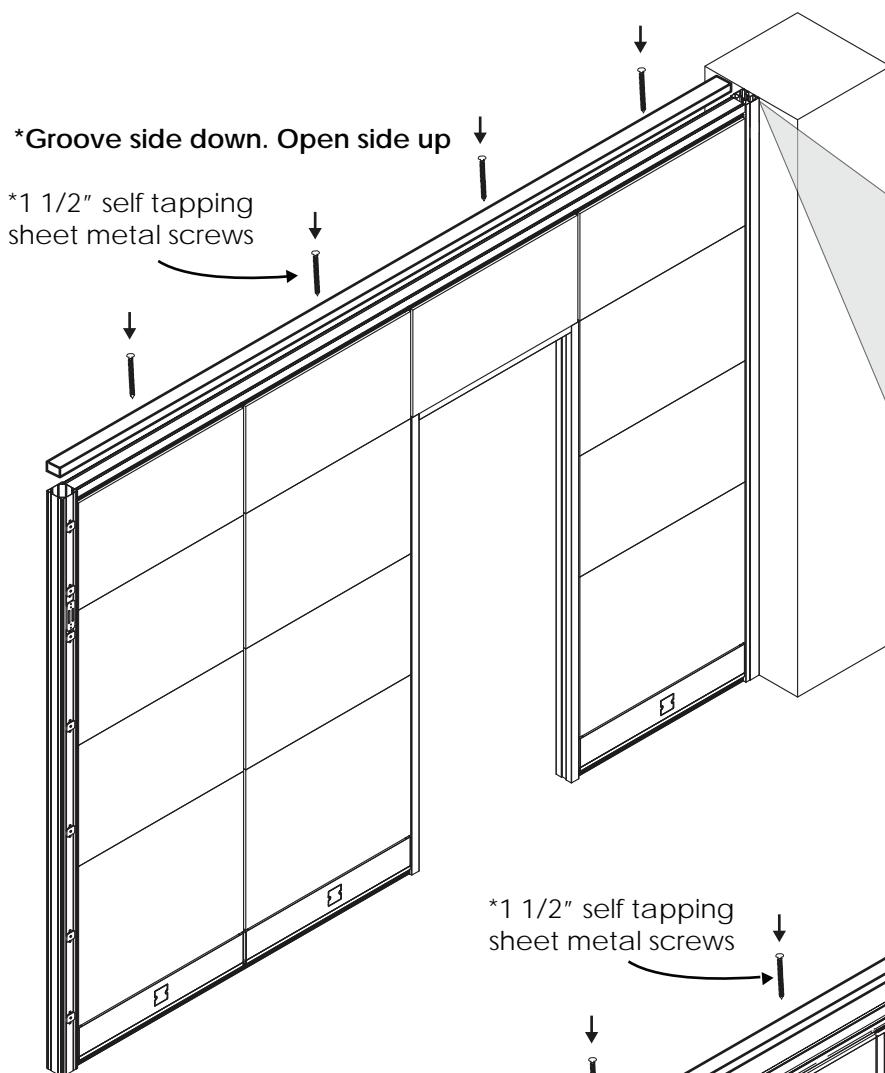
<https://youtu.be/76n4jfOB1OU>

Installing the tile hook



View Installation video here:

https://youtu.be/_qhlGucfsfY

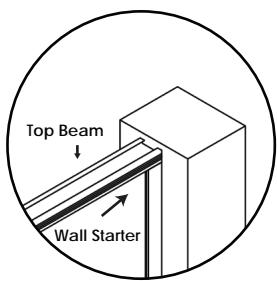
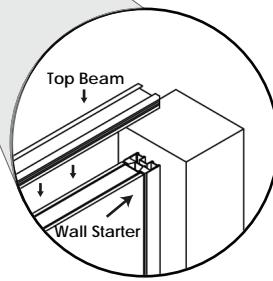


Top Beam Panel Stabilizer

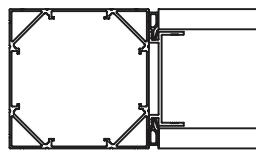
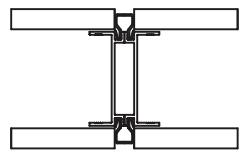
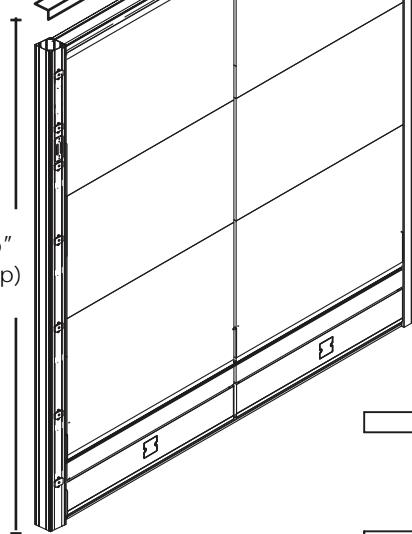
*May need to be cut to size.

*To be installed last

***MAKE SURE TOP BEAM GOES OVER WALL STARTER AND PANELS!**



*1 1/2" self tapping sheet metal screws



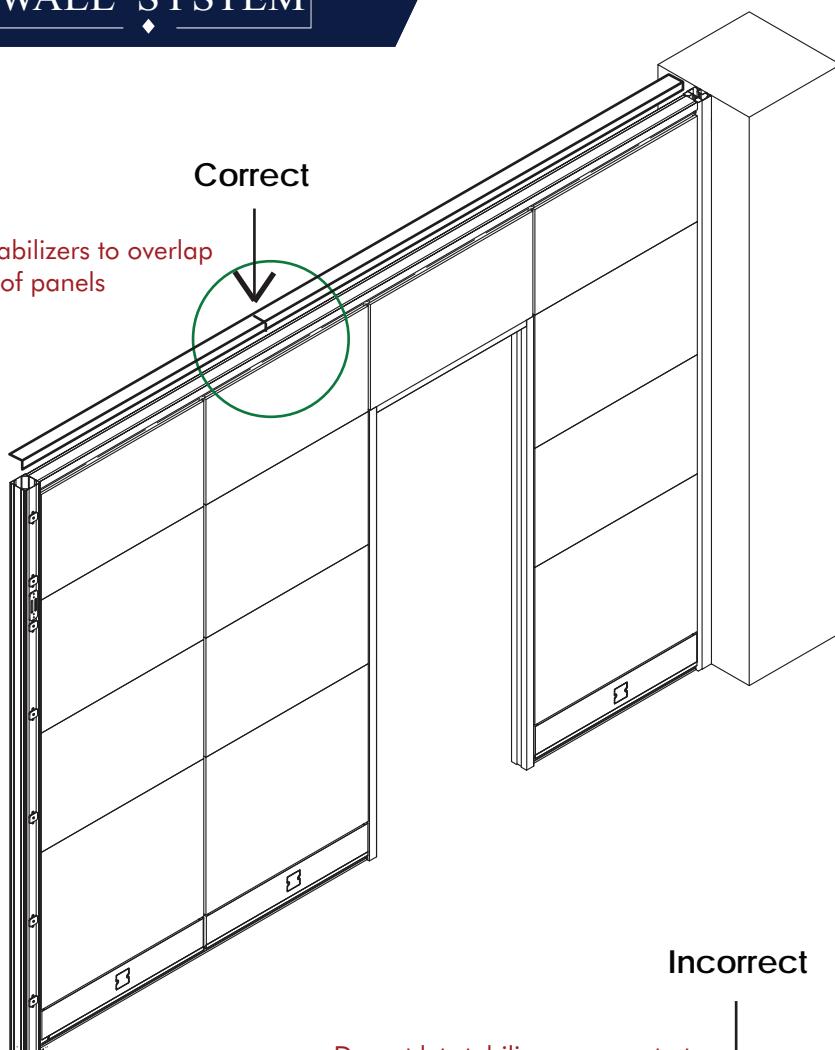
Top Beam Panel Stabilizer

*May need to be cut to size.

***MAKE SURE TOP BEAM GOES OVER WALL STARTER AND PANELS!**

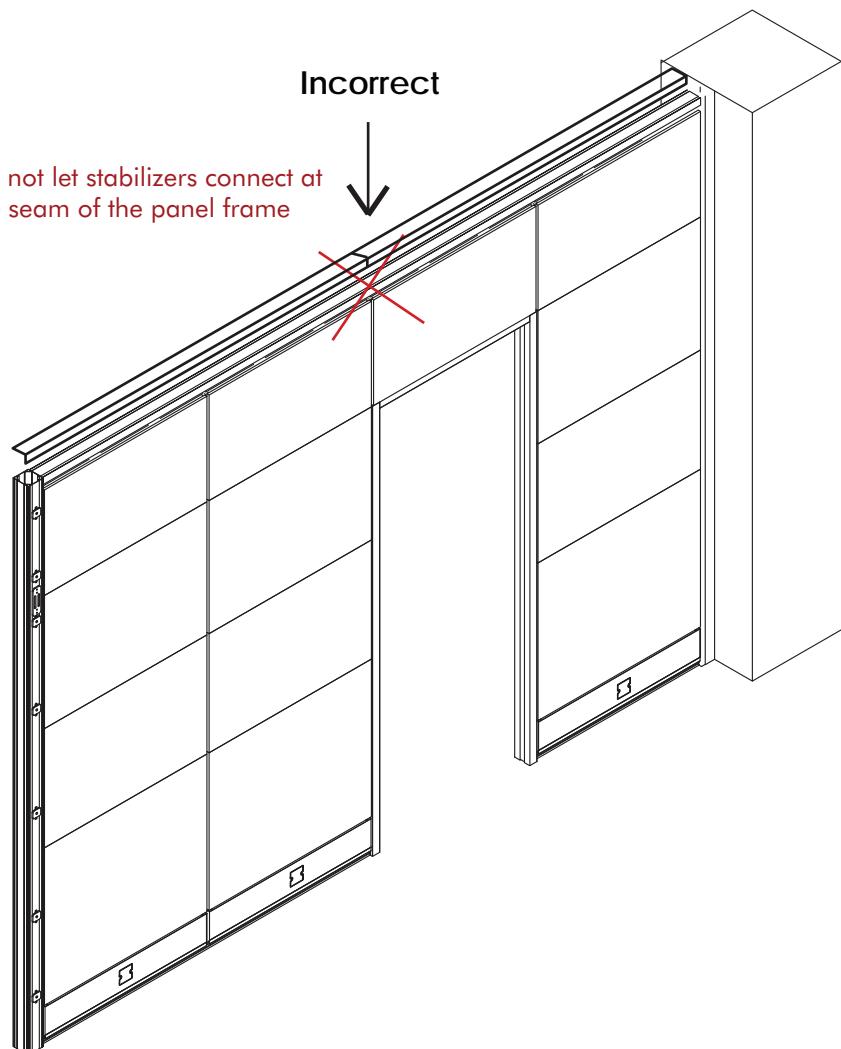
Correct

Cut stabilizers to overlap seam of panels



Incorrect

Do not let stabilizers connect at the seam of the panel frame



View Installation video here:

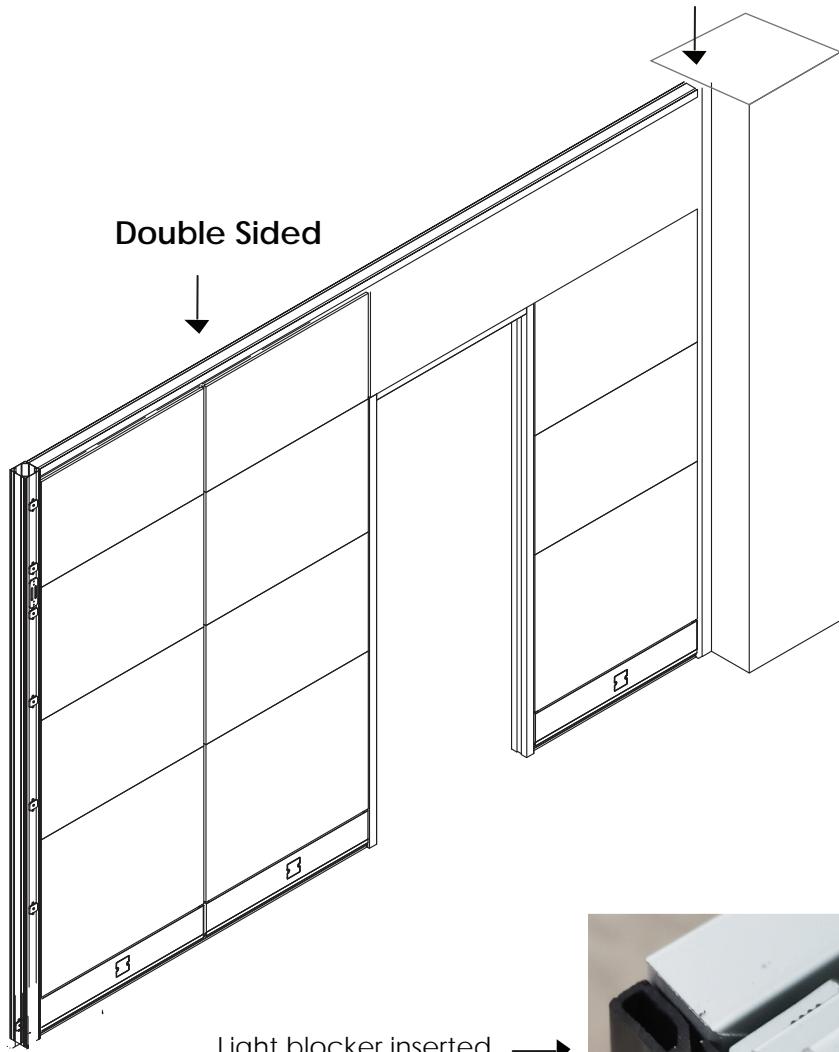
<https://youtu.be/zrFb1a7cj-4>

Light Blockers

Single sided by any connector.

Double sided in between panels.

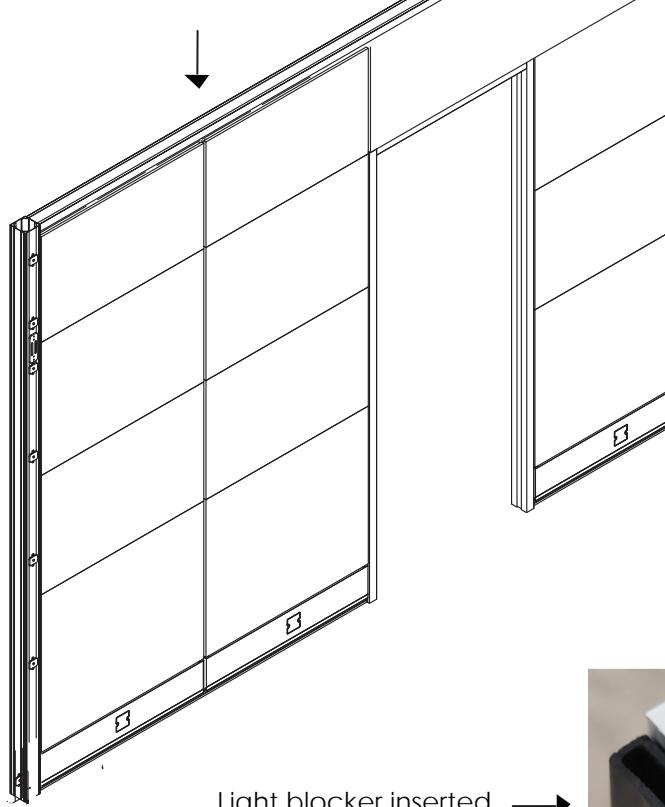
Single Sided



Light Blockers



Double Sided



*If having trouble fitting between tiles start installing light blocker from the bottom to the top instead of top to bottom.

Light blocker inserted →

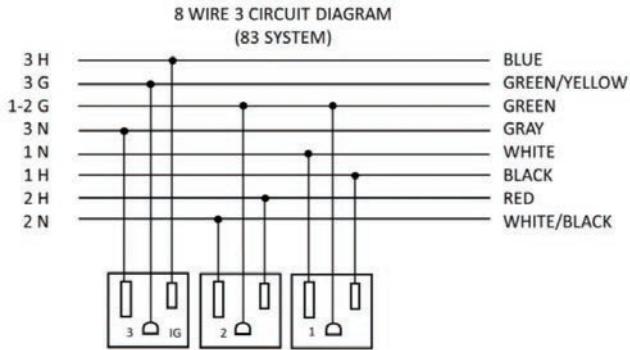
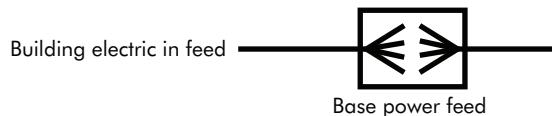
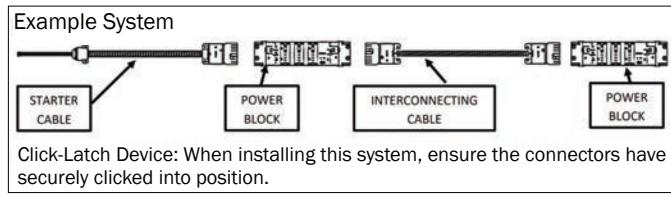
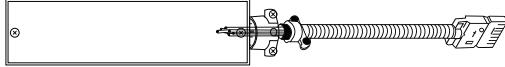


View Installation video here:

https://youtu.be/_aX_EJXjXdk

⚠ FINAL CONNECTION IS DONE BY A LICENSED ELECTRICIAN

WARNING: Risk of fire or electric shock. As with all non-directional systems, do not electrically connect panel to more than one supply source. Always determine that the panel is electrically connected to one and only one source of supply. Before using any equipment, check the entire system for polarity, continuity, and grounding integrity.



Power Supply Connection

The Power System is an eight wire system consisting of four individual circuits rated at 20 amps/120 volts maximum. Circuit 1 (black), circuit 2 (red), and circuit 4 (pink), are served by a system neutral (white) and an equipment ground (green). Circuit 3 (blue) uses an isolated neutral (gray), and an isolated ground (green/yellow). The system may be supplied by a three phase power system with four individual circuits rated 20 amps/120 volts maximum, or as permitted by local code.

When connecting electric pass throughs to power moduals, please make sure ARROW is up

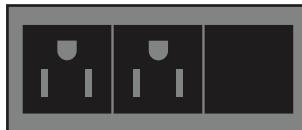
Outlet Layout Options

O1



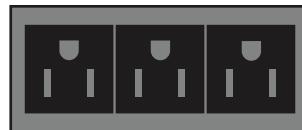
OUTLET - BLANK - BLANK

O2



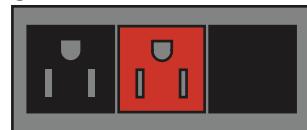
OUTLET - OUTLET - BLANK

O3



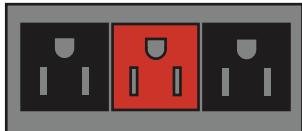
OUTLET - OUTLET - OUTLET

O4



OUTLET - DEDICATED* - BLANK

O5



OUTLET - DEDICATED* - OUTLET

O6



BLANK - DEDICATED* - BLANK

***PLEASE NOTE:** Orange is used to represent the dedicated outlet. The actual color of the outlet is **black**.

EMERALD Cubicles come with style #225 Outlets.
SAPPHIRE Cubicles come with style #325 Outlets.

DM1



CAT 6 - Blank - Blank - Blank

DM2



CAT 6 - CAT 6 - Blank - Blank

DM3



CAT 6 - CAT 6 - CAT 6 - Blank

DM4



CAT 6 - CAT 6 - CAT 6 - CAT 6

DM5



CAT 6 - Phone Jack - Blank - Blank

DM6



CAT 6 - CAT 6 - Phone Jack - Blank

DM7



CAT 6 - CAT 6 - CAT 6 - Phone Jack

All Modules can be customized to customers specifications. Please call to review options with one of our sales representatives. Color of jacks may vary.

Optional Acoustic Installation

Choose to add additional acoustic to your system using this rockboard. Below are the test results of its performance.

ROCKBOARD® 40 – Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.07	0.32	0.77	1.04	1.05	1.05	0.80
2.0"	0.26	0.68	1.12	1.10	1.03	1.04	1.00
4.0"	1.03	1.07	1.12	1.04	1.07	1.08	1.10

ROCKBOARD® 60 – Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.08	0.33	0.78	1.03	1.02	1.04	0.80
2.0"	0.32	0.81	1.06	1.02	0.99	1.04	0.95

ROCKBOARD® 80 – Acoustical Performance

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.11	0.31	0.82	1.01	1.02	1.01	0.80
2.0"	0.43	0.78	0.90	0.97	0.97	1.00	0.90

Environmentally Sustainable

Our stone wool production process uses some of the most advanced technology available. The last decade has seen a new generation of ROXUL manufacturing advancements designed to lower our environmental footprint. These endeavors have included:

- the capture and recycling of rainwater;
- reduction in energy consumption;
- recycling of raw materials back into the production process;
- the use of natural lighting in our facilities; and
- repurposing water used during the manufacturing process.

Moisture Resistance

ROCKBOARD® 40/60/80 ASTM C 1104	Moisture Sorption	<0.08%
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Fungi Resistance

ROCKBOARD® 40/60/80 ASTM C 1338	Determination of Fungi Resistance	Passed
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Thermal Resistance

ROCKBOARD® 40/80 ASTM C 518 [C 177]	R-value/inch @ 75 °F	4.1 hr.ft².F/BTU
	RSI value/25.4 mm @ 24 °C	0.72 m²K/W
ROCKBOARD® 60 ASTM C 518 [C 177]	R-value/inch @ 75 °F	4.2 hr.ft².F/BTU
	RSI value/25.4 mm @ 24 °C	0.72 m²K/W

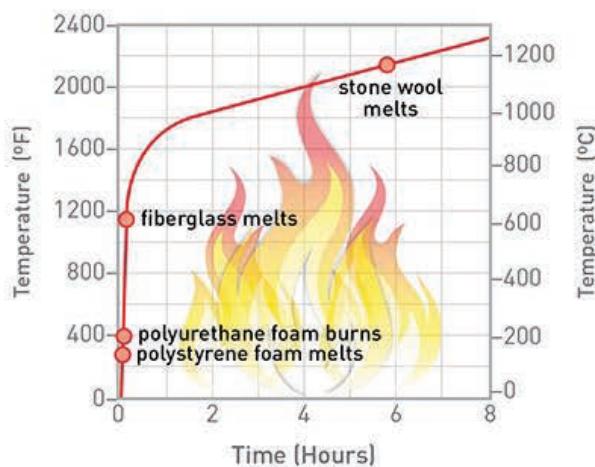
Maximum Service Temperature

ROCKBOARD® 40/60/80	ASTM C 411	Hot Surface Performance in Compliance with ASTM C 612 @ 1200 °F (650 °C)
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Fire Performance

ROCKBOARD® 40/60/80 CAN/ULC S114	Test for Non-Combustibility	Non-Combustible
ROCKBOARD® 40/60/80 ASTM E 84[UL 723]	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0
ROCKBOARD® 40/60/80 CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0

Temperature Development in a Standard Fire (ASTM E119)



Compliance and Performance

ROCKBOARD® 40 ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVA, Complies
ROCKBOARD® 60/80 ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies



Installing the rockboard in the sapphire system.

Rockboard fits in between the laminate tiles on the system.



Rockboard inside
of panel

• Fully assembled with laminate
tile over rockboard