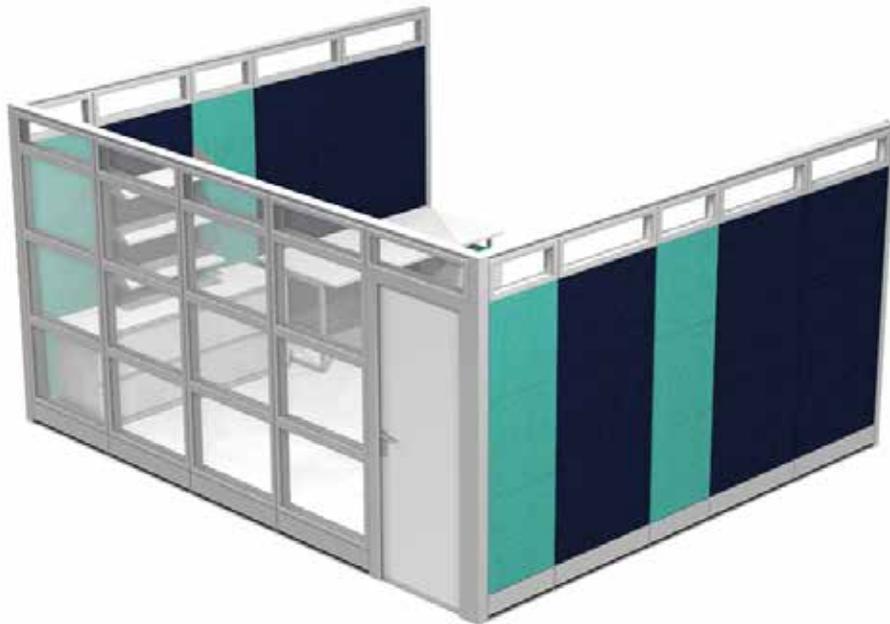




SAPPHIRE WALL SYSTEM

Installation Guide



84"H-108"H

Tools Needed for Installation

(Professional Assembly
Recommended)



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



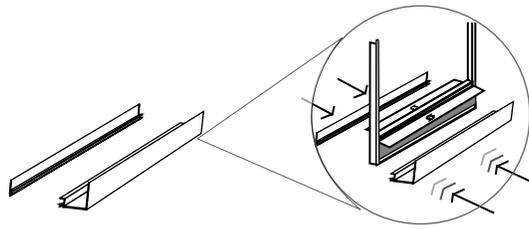
1/2" Hex Bolts- for connectors
 1" Hex Bolts- for panel to panel connectors
 3" Hex Bolts- for wall starter



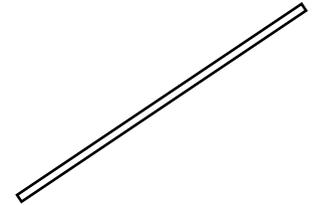
2" Sheet Metal Screws
 for top beam.



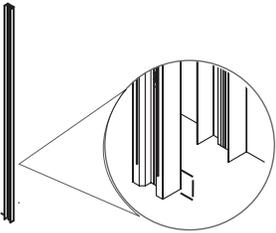
Top Beam



Bottom Track



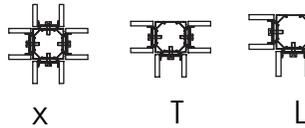
Spacer
 Spacer Threaded
 and not Threaded



Wall Starter



Stack up
 Connector



Connectors



End Trim



Full Slab
 Frame



Panel
 Frame

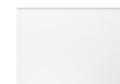


Panel Topper- 10"
 Panel Topper- 20"

Tiles



Glass



Laminate



Fabric



Sliding



Swinging



Open

Door and Frame

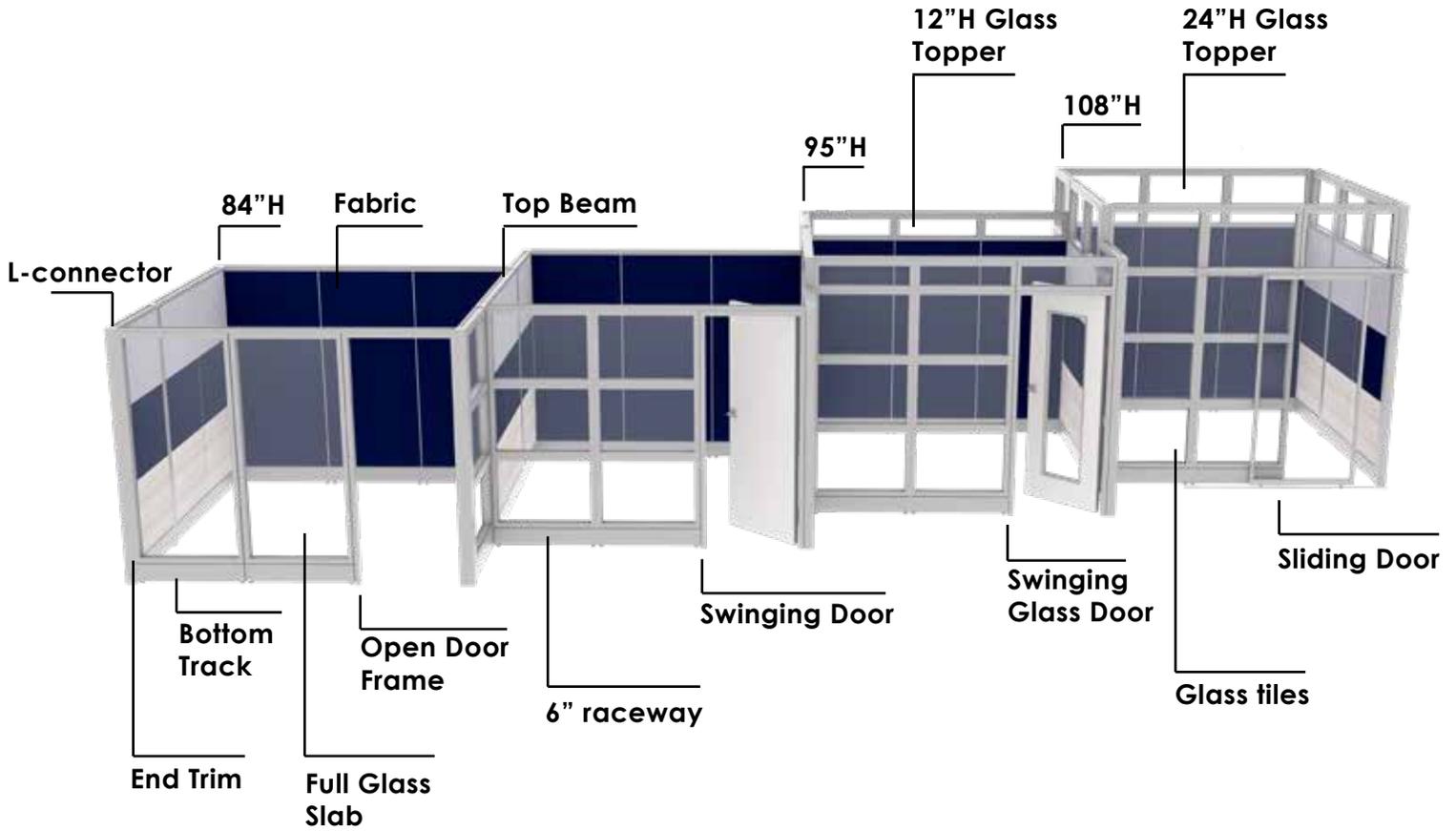


Glass Door Topper- 10"
 Glass Door Topper- 20"

*1/2" Bigger Than regular Glass



Light Blockers
 Small/Large



Example of bottom track option

With bottom track



Without bottom track

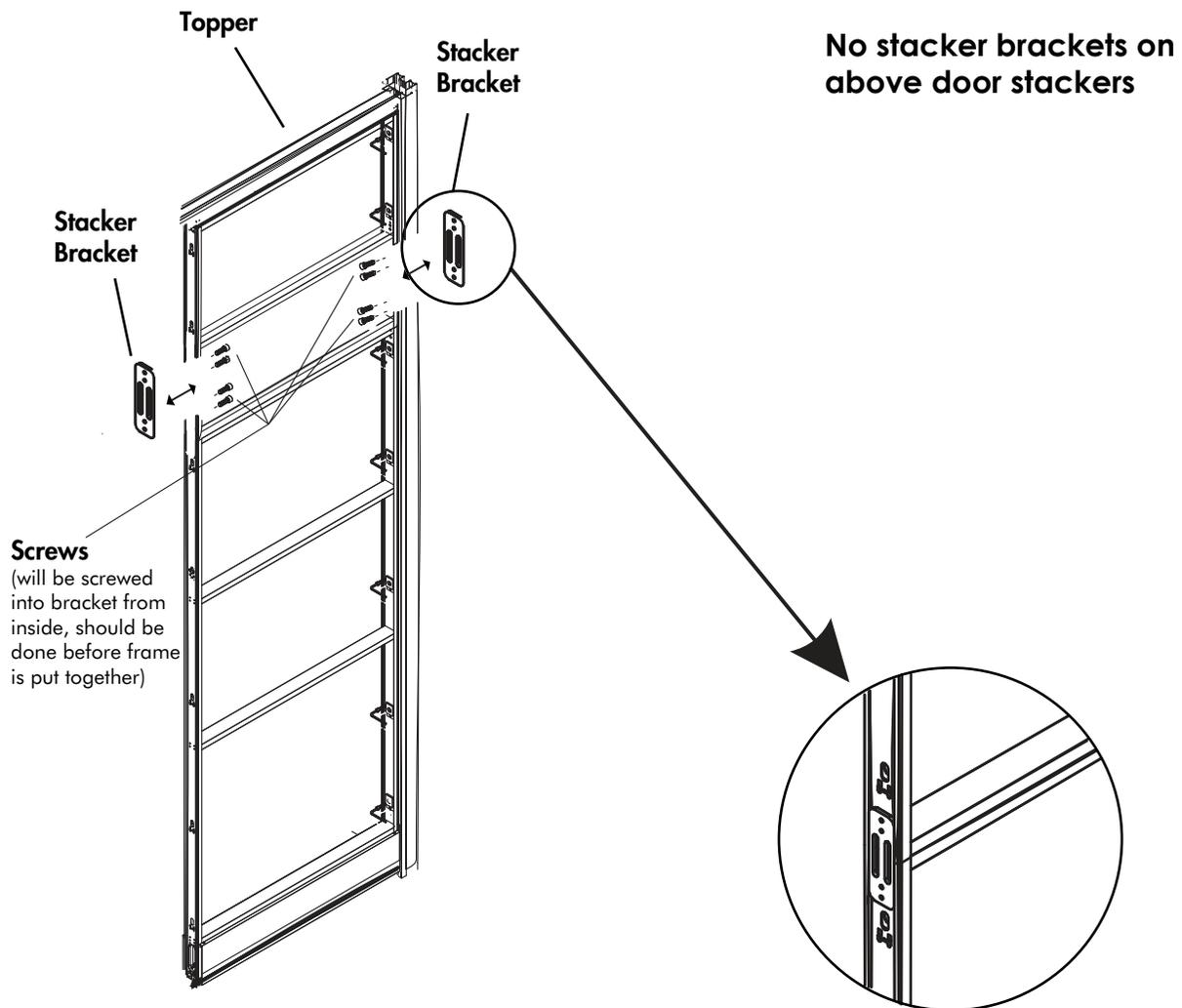


**Stacker Bracket
Connectors**

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>

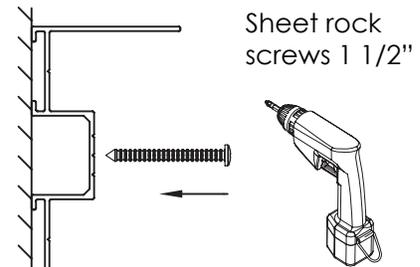
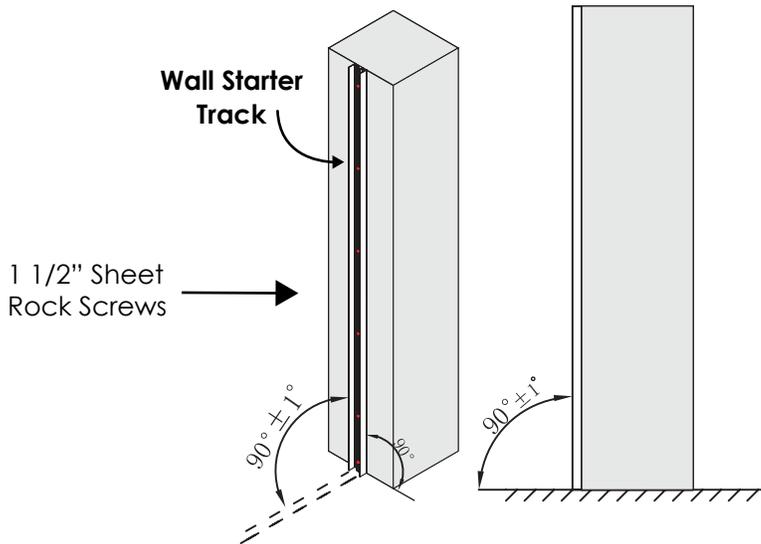
Installing Wall Starter and 1st Panel

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

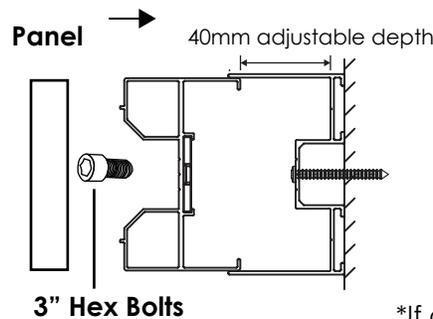
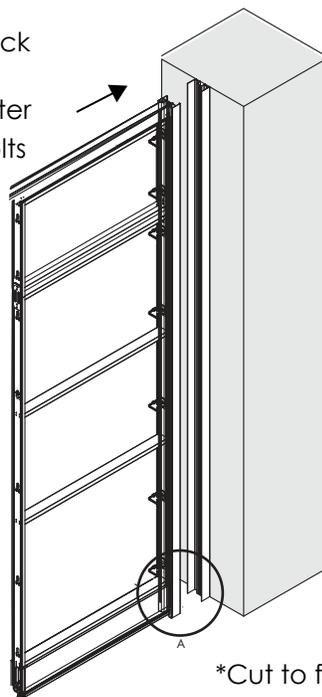


Fix the side groove into wall

Step 3:

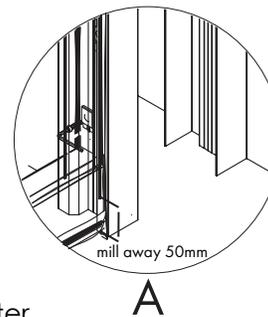
Slide frame into track

Connect Wall Starter To panel using 3" hex bolts



*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



*Cut to fit wall starter over molding.

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

View Installation video here:

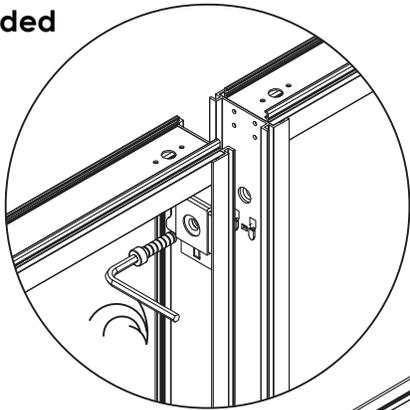
<https://youtu.be/jMRLdvsThrQ>

Straight Connectors

*Make sure everything
is level

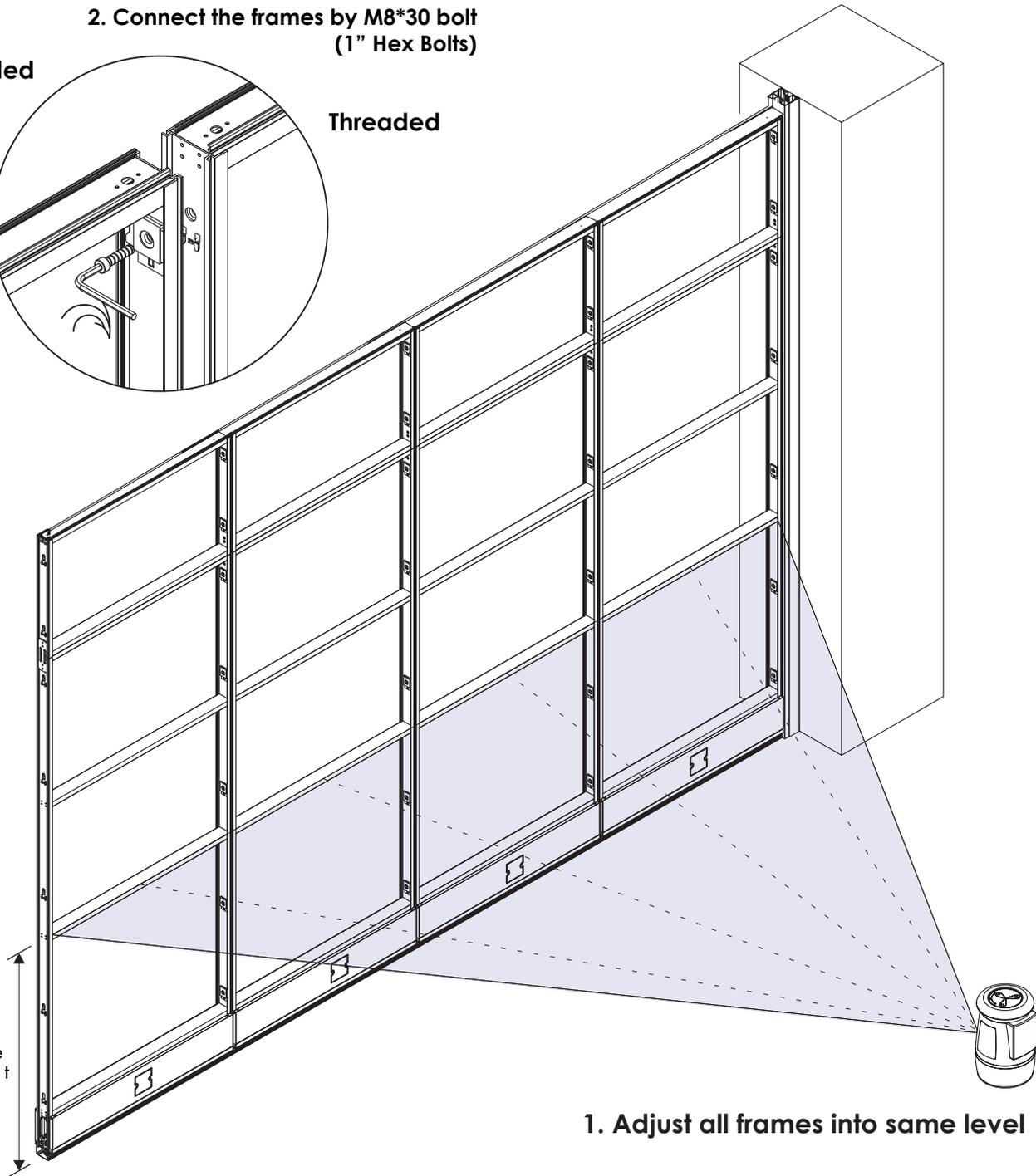
2. Connect the frames by M8*30 bolt
(1" Hex Bolts)

Unthreaded



Threaded


same
height



1. Adjust all frames into same level

Washers are threaded
and unthreaded and
can be interchanging.

View Installation video here:

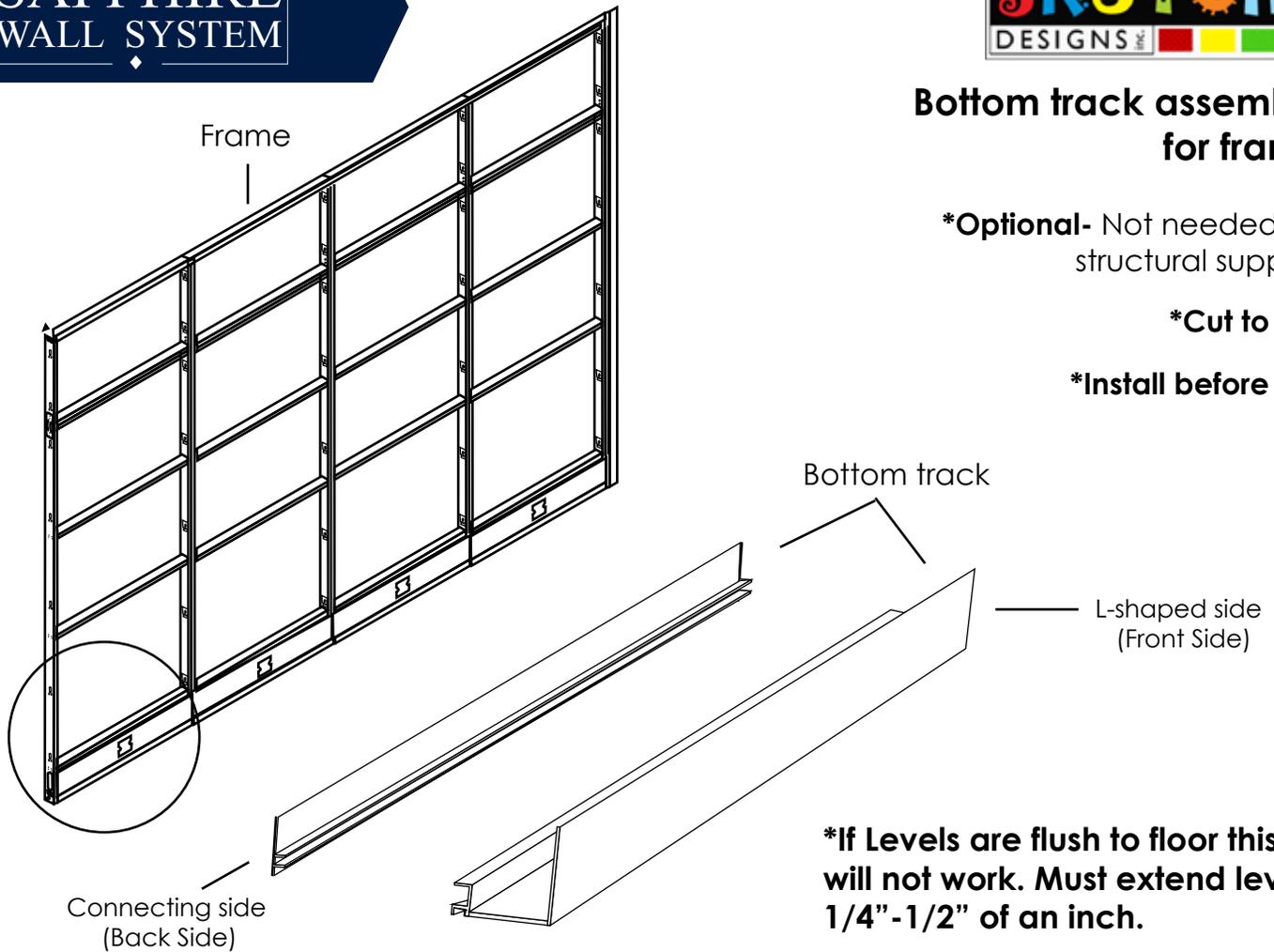
<https://youtu.be/-KztYAftzi0>

Bottom track assembly for frame

***Optional-** Not needed for structural support

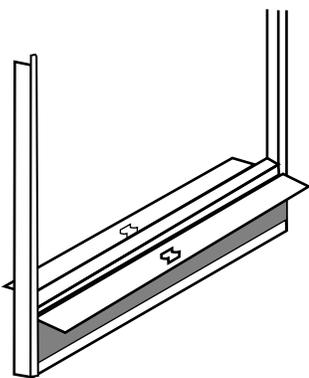
***Cut to size**

***Install before tiles**



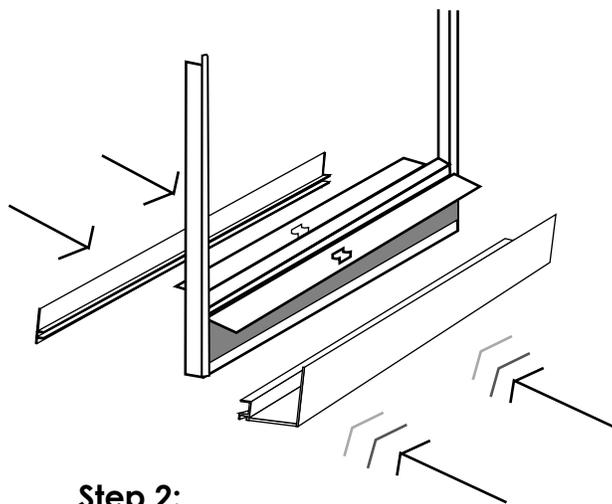
***If Levels are flush to floor this will not work. Must extend levels 1/4" - 1/2" of an inch.**

***Assemble bottom track before attaching files to frame**



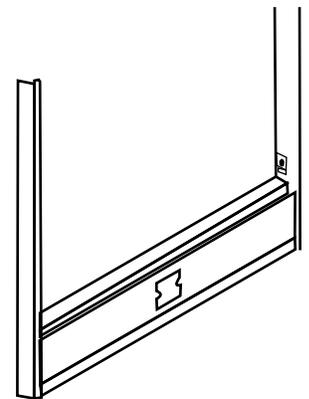
Step 1:

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:

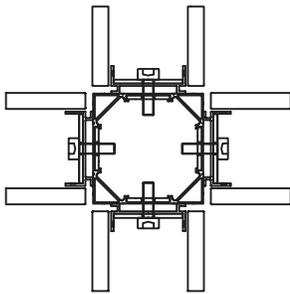
Close raceways

View Installation video here:

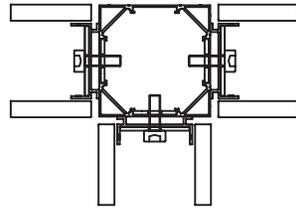
<https://youtu.be/NaZqDuL9unM>

Attaching Connectors

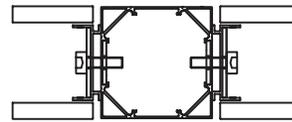
***All connectors simply bolt into panels.**



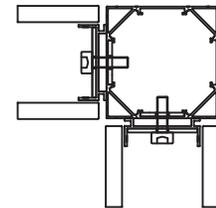
4 ways connection



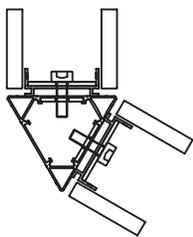
3 ways connection



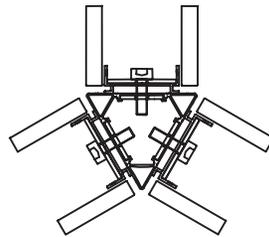
Straight Connector



2 ways connection



120 degree
2 ways connection

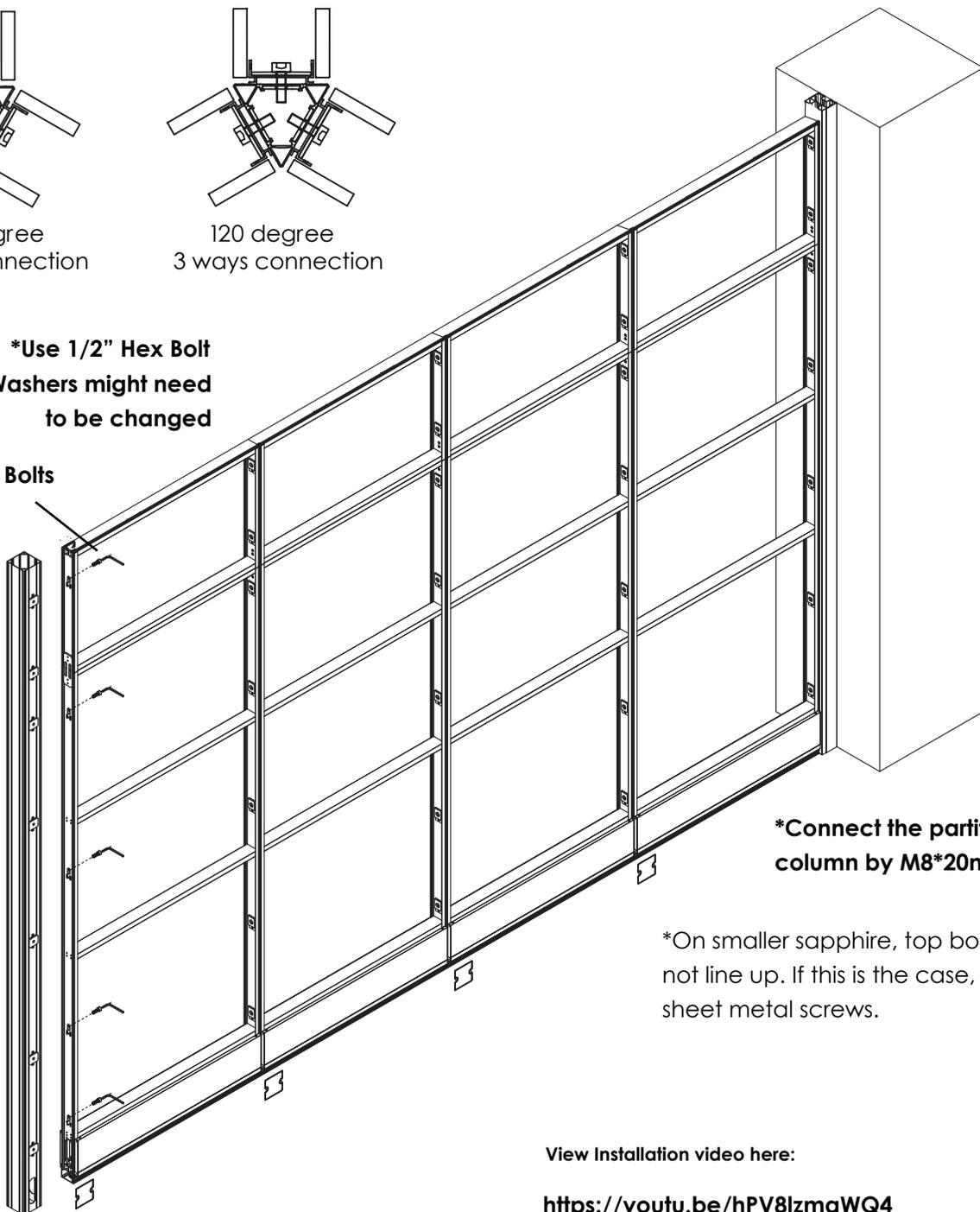


120 degree
3 ways connection

***Use 1/2" Hex Bolt**
***Washers might need to be changed**

1/2" Hex Bolts

Top of the connector should be even with the top of the frame minus the top cap.



***Connect the partition and column by M8*20mm bolt.**

*On smaller sapphire, top bolt might not line up. If this is the case, just use sheet metal screws.

View Installation video here:

<https://youtu.be/hPV8lzmqWQ4>

Attach End Trim to Wall system

No pre-drilled holes.

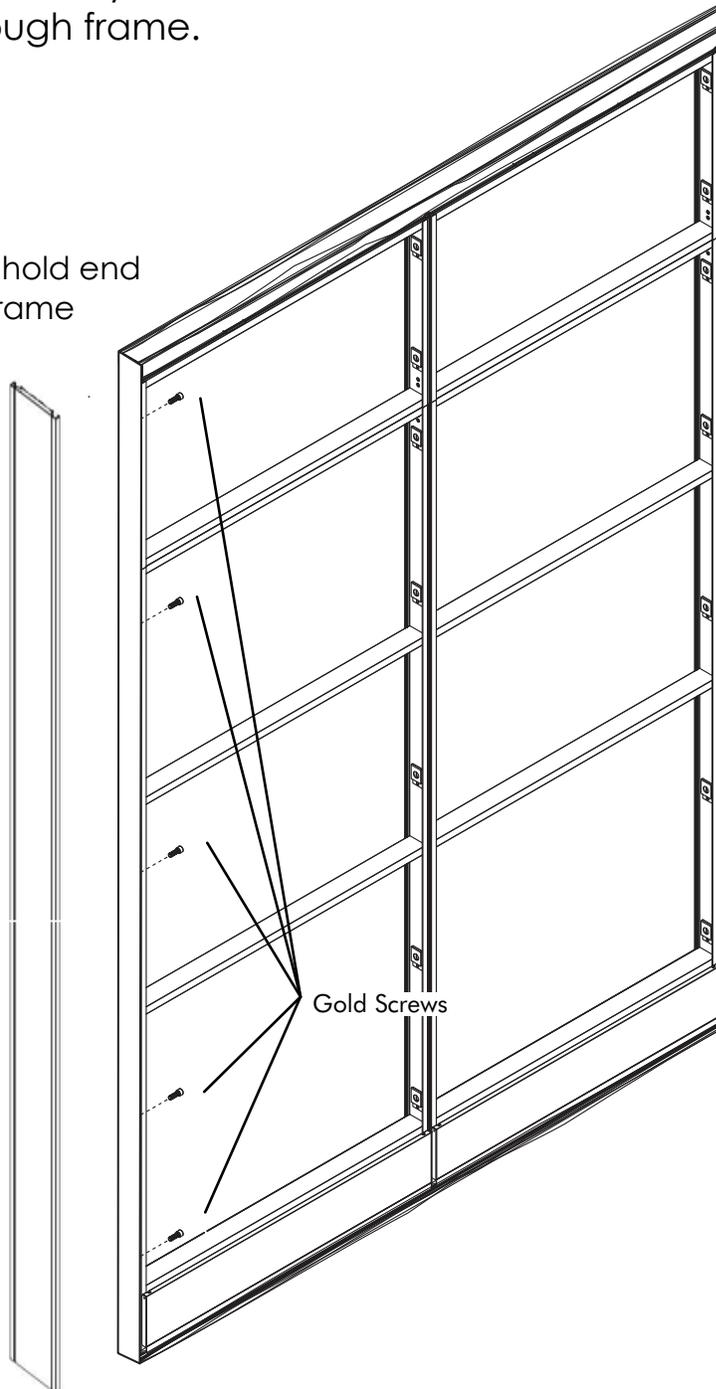
Please use sheet metal screws (gold screws) and tap holes through frame.

***Do not overtighten**

*Use clamp to hold end trim tightly to frame



*Use self tapping 5/8 gold screws.

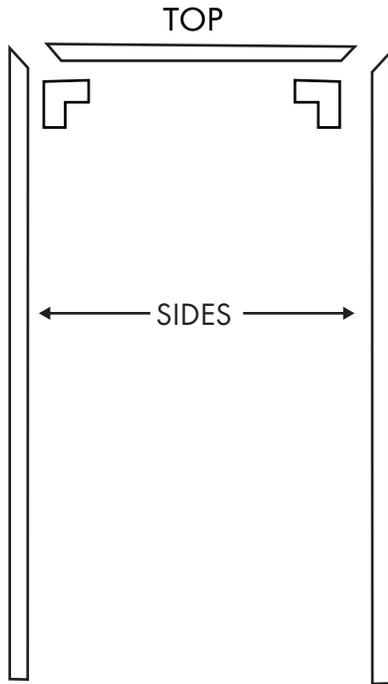


View Installation video here:

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

Door Frame Assembly

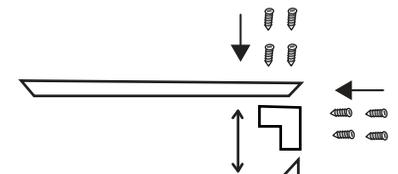
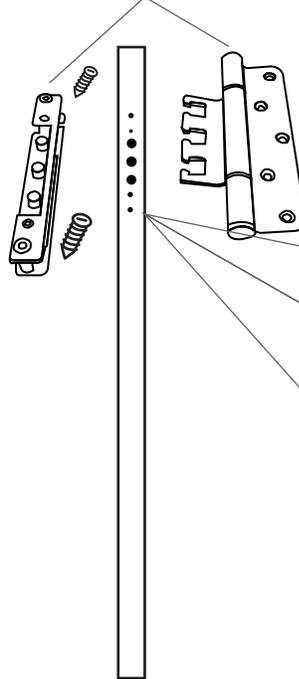
1. Arrange door frame pieces on the floor in the correct positions that they will be put together.



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



If installing on a connector, do not use gold clips, use sheet metal screws to be able to attach to panels

Parts



Assembled Frame



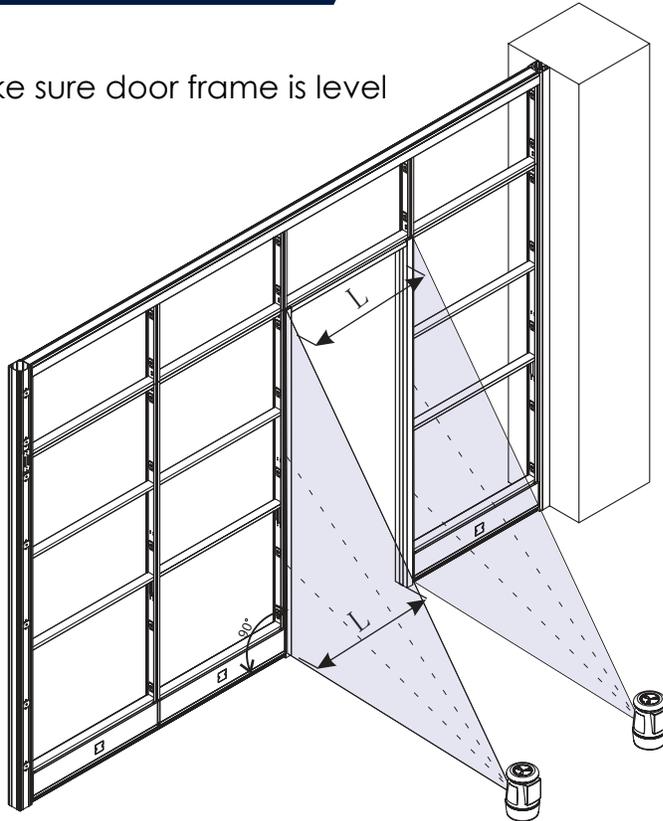
***When installing on connector please pre drill holes and use sheet metal screws**

View Installation video here:

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

Installing Swing Door Frame

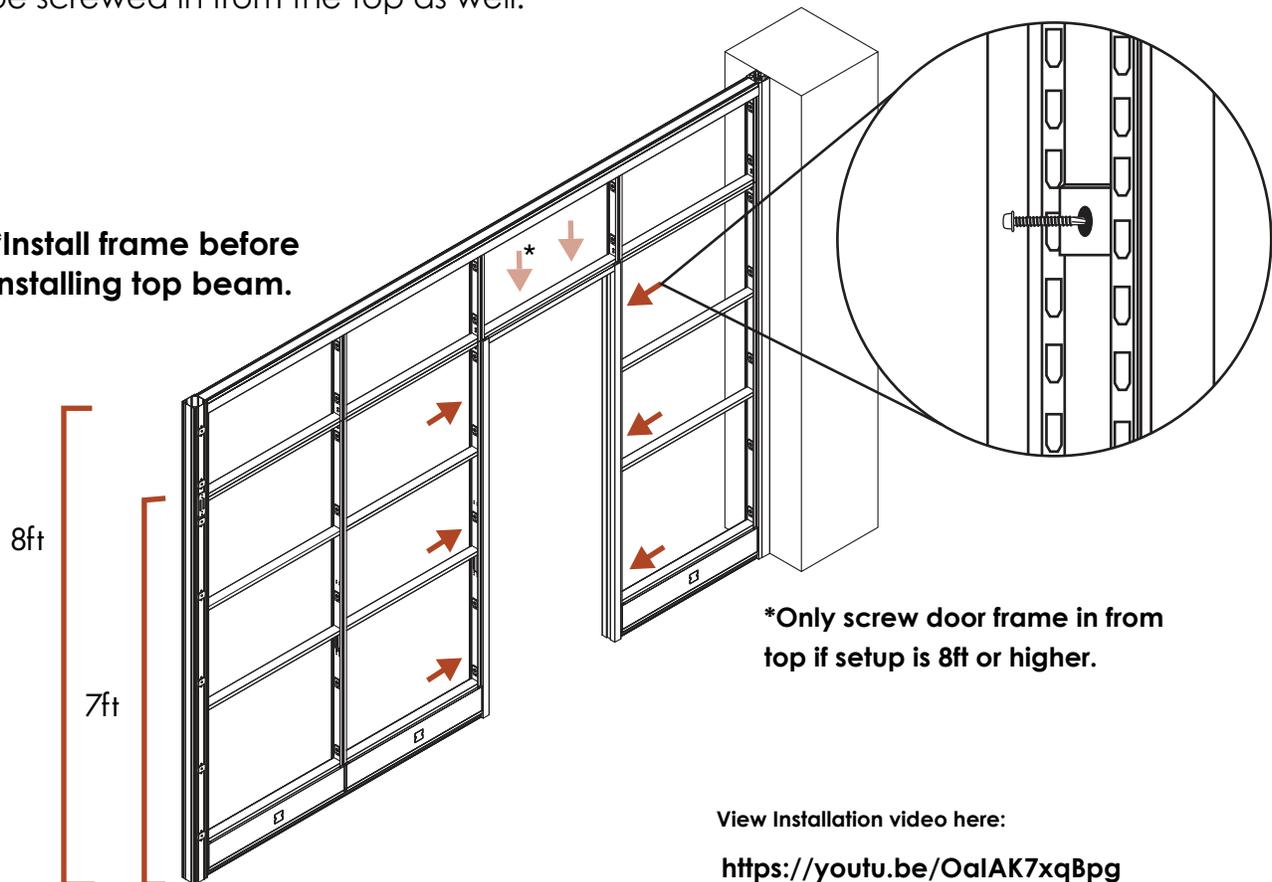
4. Make sure door frame is level



*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.

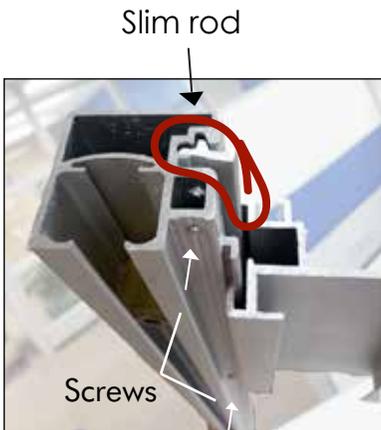
***Install frame before installing top beam.**



View Installation video here:

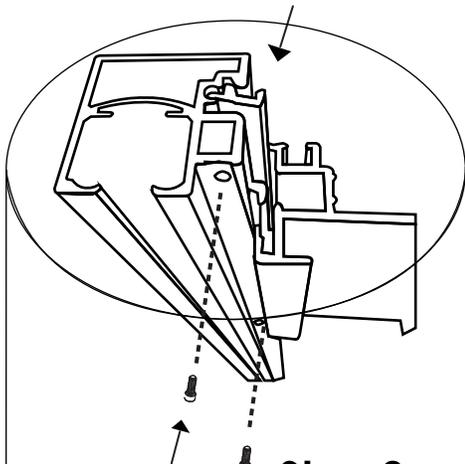
<https://youtu.be/OalAK7xqBpg>

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



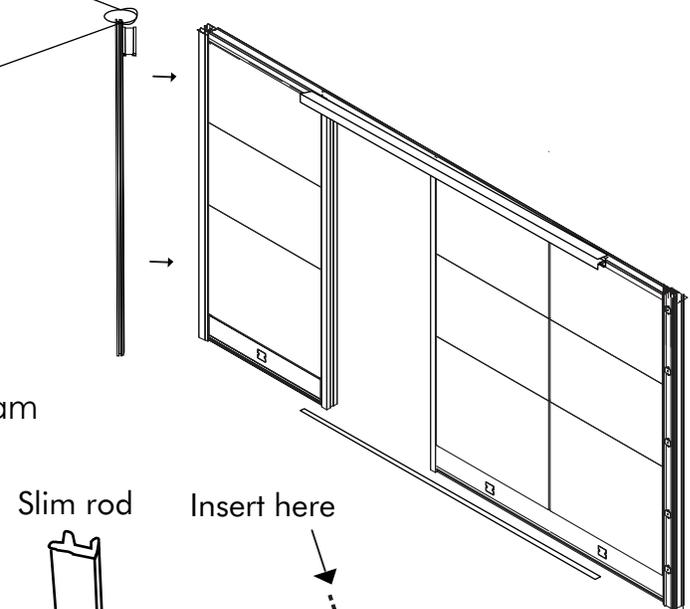
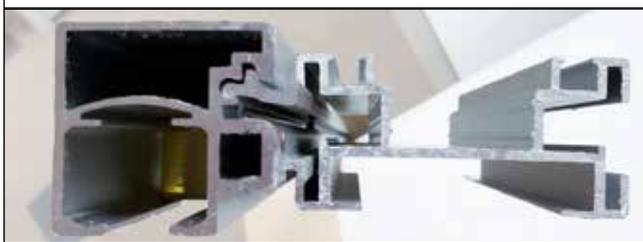
Step 1:

Insert slim rod into track of beam



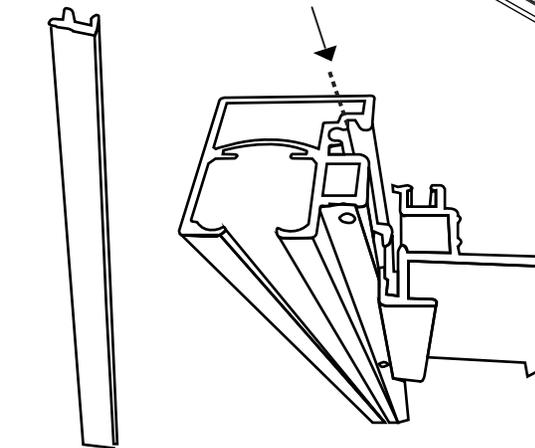
Step 2:

Secure with screws

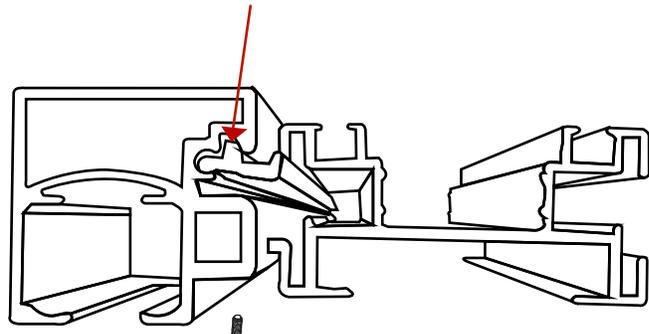


Slim rod

Insert here



Slim rod



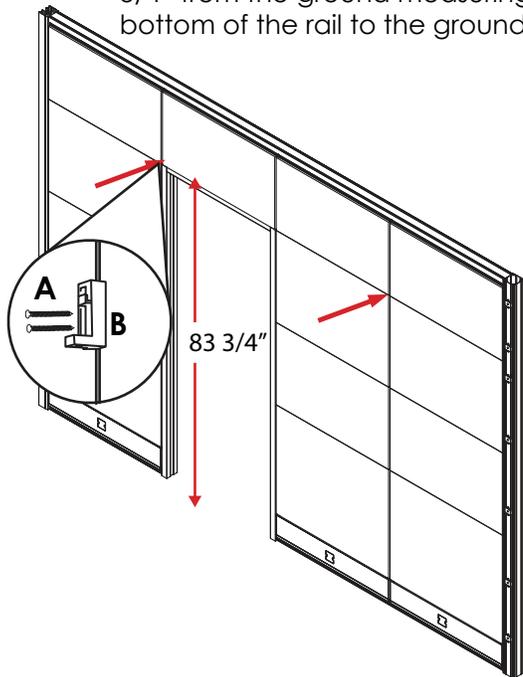
Secure with screws

View Installation video here:

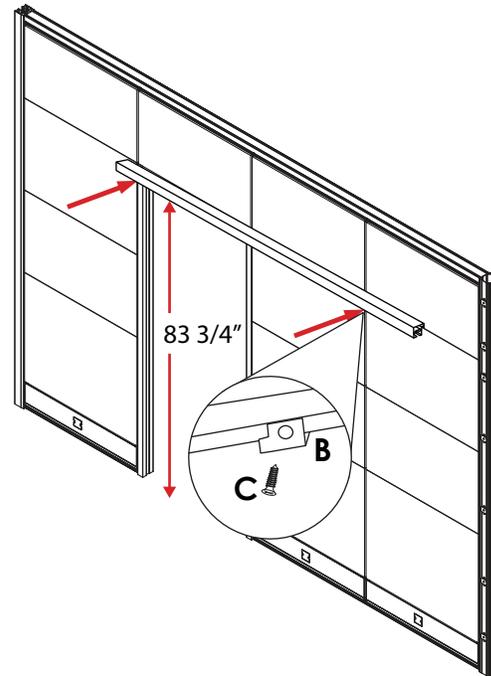
https://youtu.be/_4cBCwJAmaM

Sliding Door Assembly

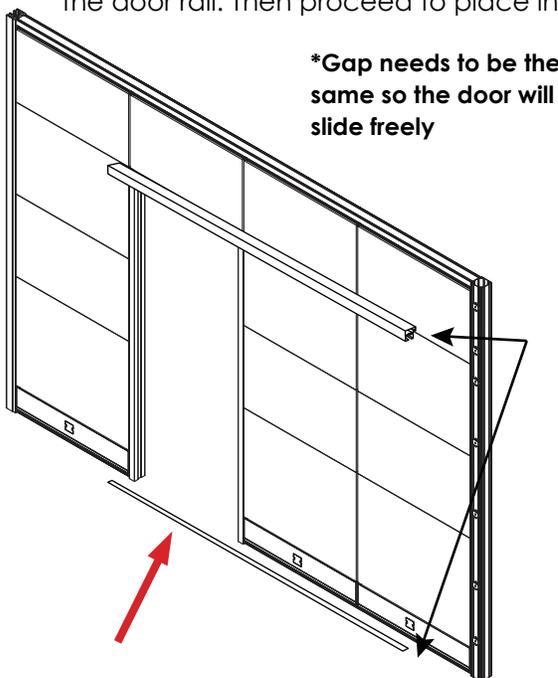
1. Screw in sliding door track clips into grooves between panels. Door rail must be placed 83 3/4" from the ground measuring from the bottom of the rail to the ground



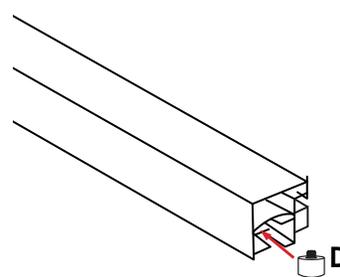
2. Place sliding door rail onto screwed in sliding door rail clips and screw in from below. Door rail must be placed 83 3/4" from the ground.



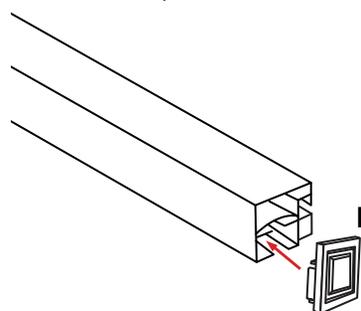
3. Place sliding door bottom track on floor using double sided tape, velcro, or glue; Lining it up with the door rail. Then proceed to place in sliding door.



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



5. Place sliding door rail finish caps

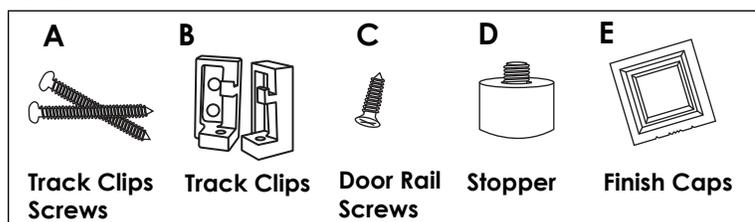


Sliding Door Lock



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

Parts:



View Installation video here:
<https://youtu.be/xhDhI7eM0I>

Installing Door Frame Against Connector

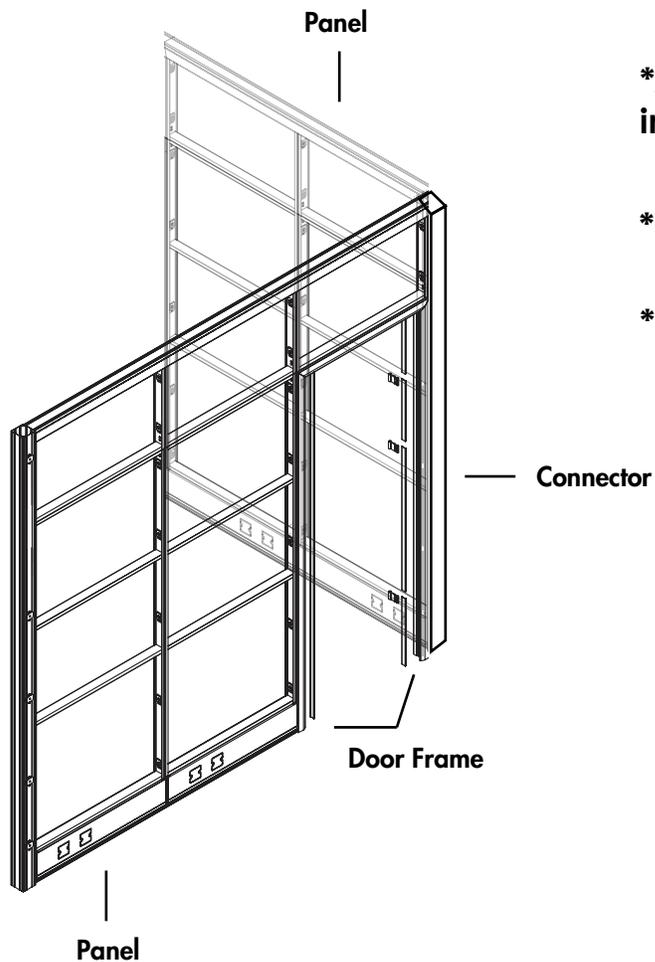
1. When installing a door frame against a connector:

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



***2" pan head screws into pre drilled holes.**

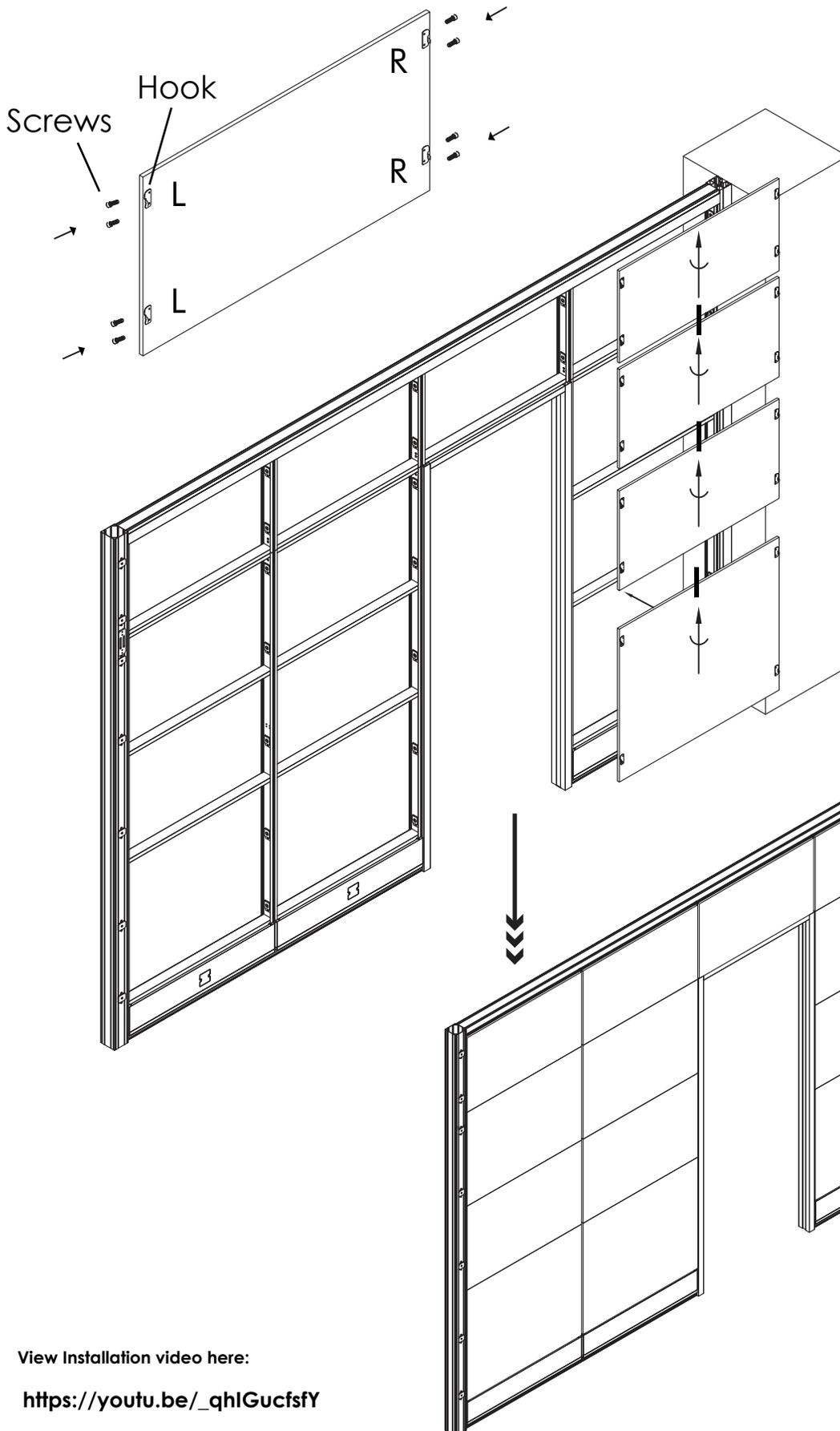
***Pre-drilled holes**

***Change new hinges**

View Installation video here:

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

Installing the tile hook



*Please use mallet to tap down tiles

*Please use wood in between to keep tiles aligned

*Do not hit tiles too hard

* If top tile doesn't clip in you are off on the bottom.

Fix the Tiles

View Installation video here:

https://youtu.be/_qhlGucsfY

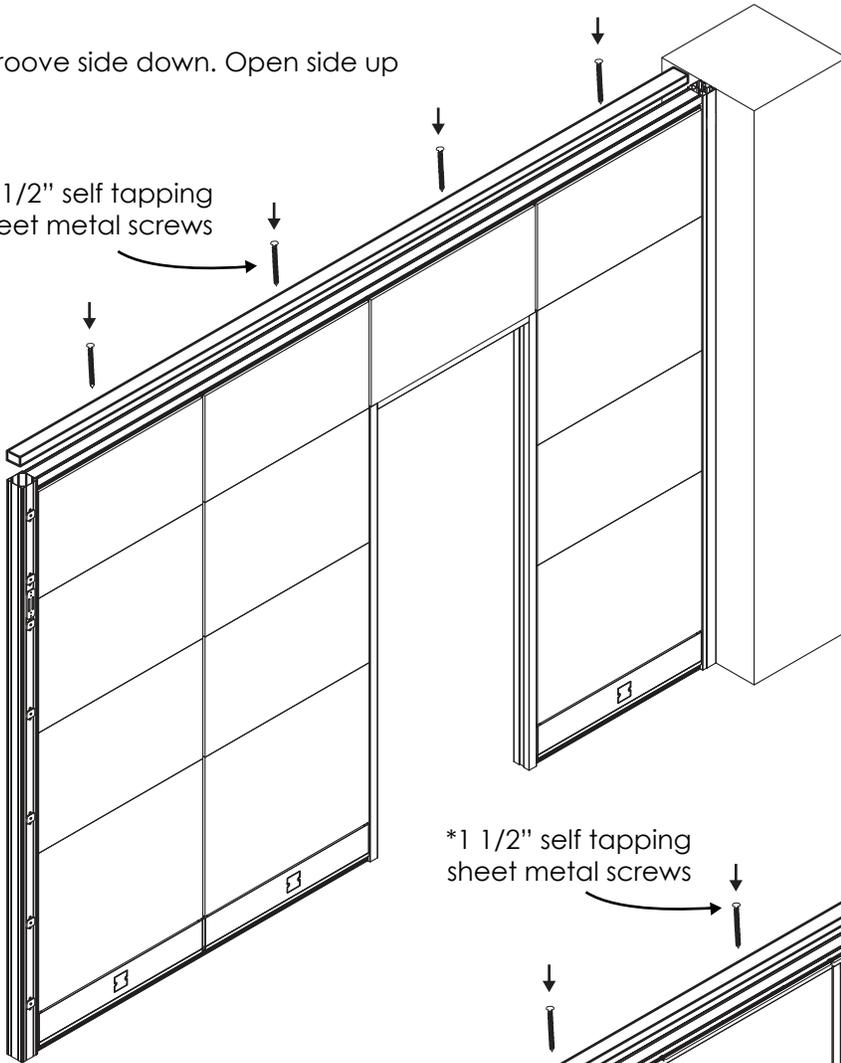
Top Beam Panel Stabilizer

*May need to be cut to size.

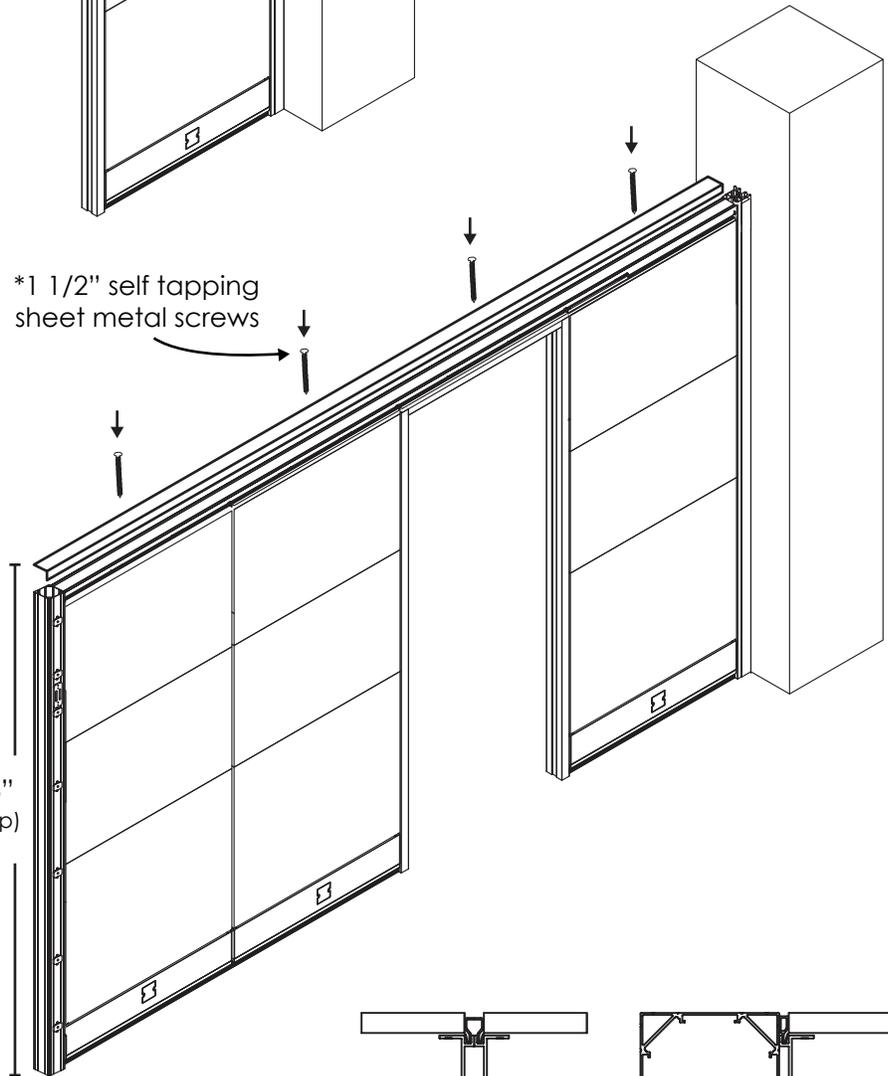
***To be installed last**

*Groove side down. Open side up

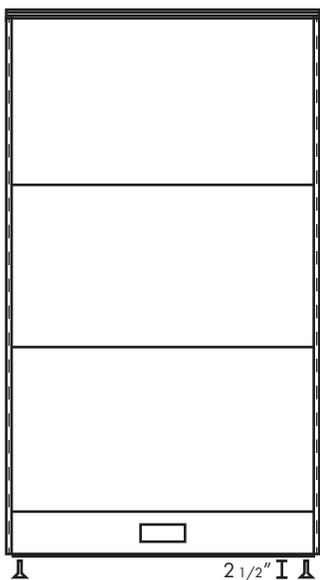
*1 1/2" self tapping sheet metal screws



*1 1/2" self tapping sheet metal screws

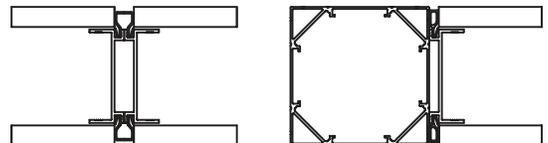


7"H Custom Panel



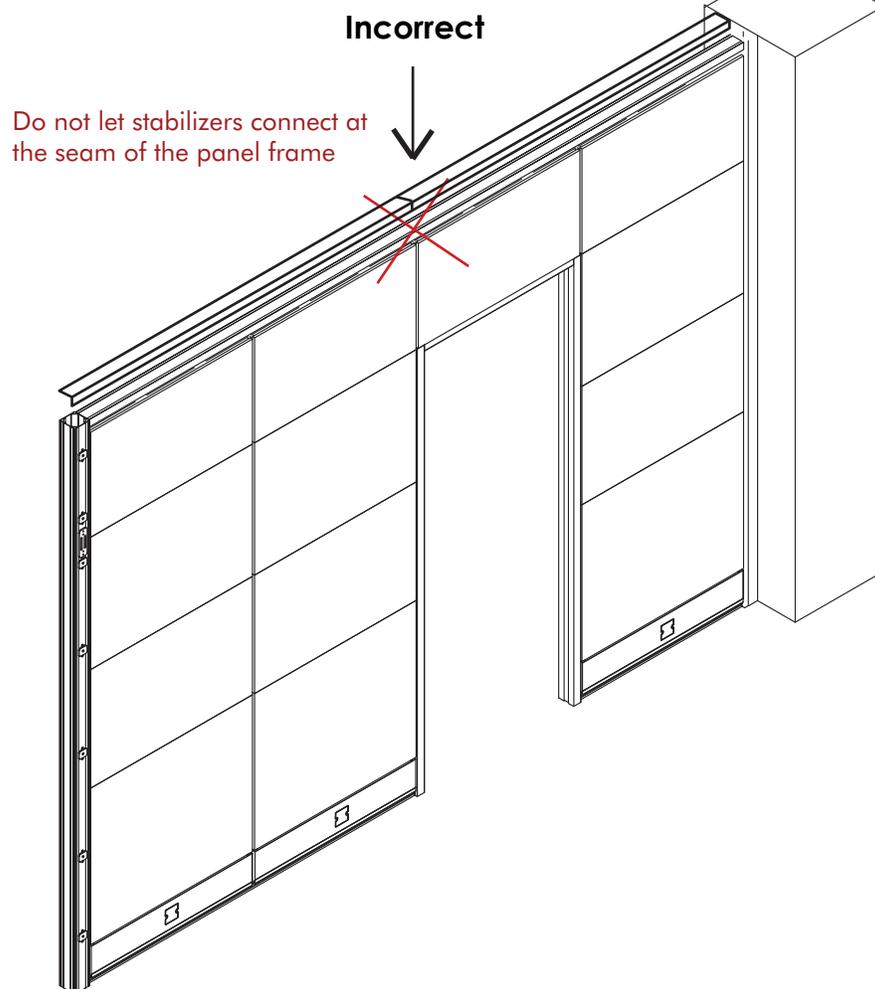
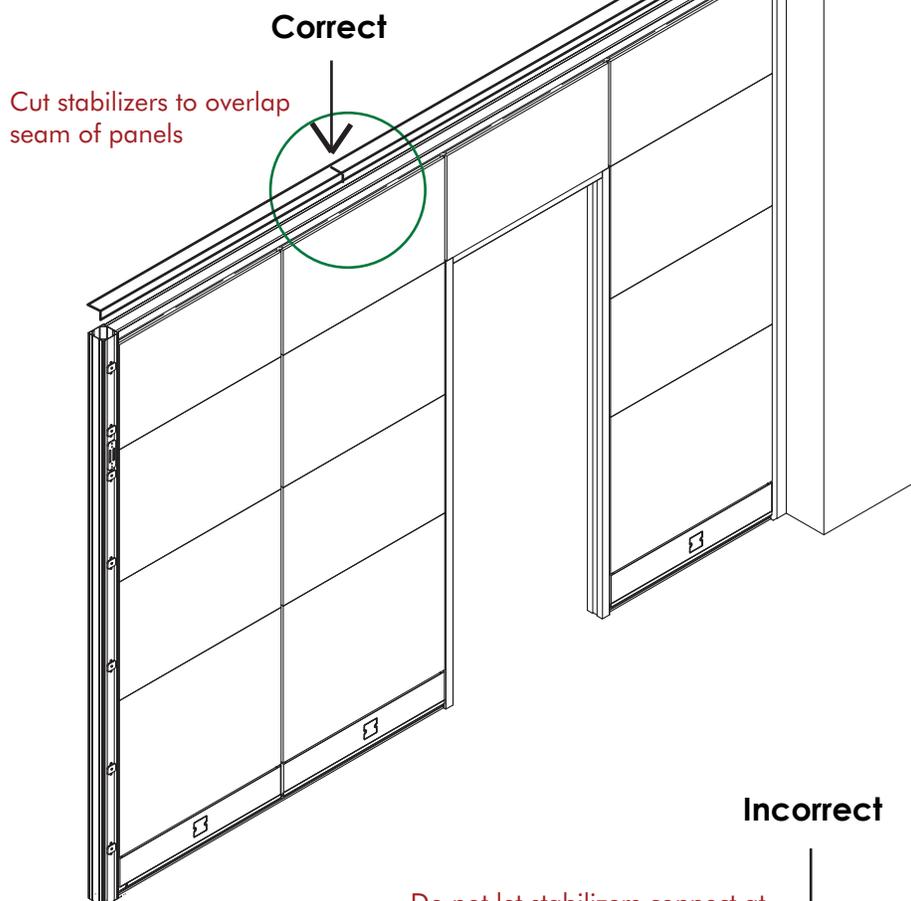
84 11/16"
(with top cap)

83 3/8"



Top Beam Panel Stabilizer

*May need to be cut to size.

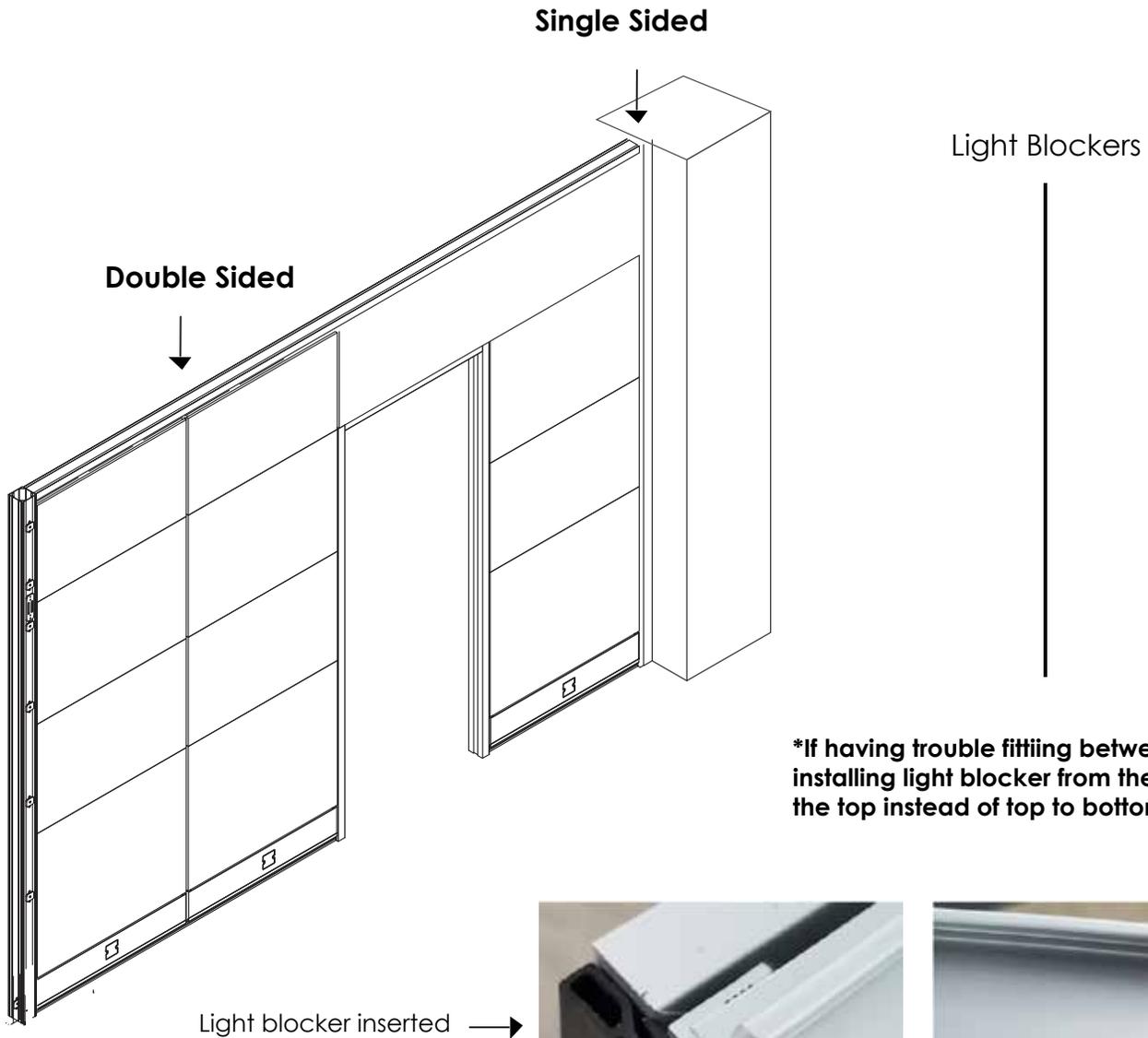


View Installation video here:

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

Light Blockers

Single sided by any connector.
Double sided in between panels.



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

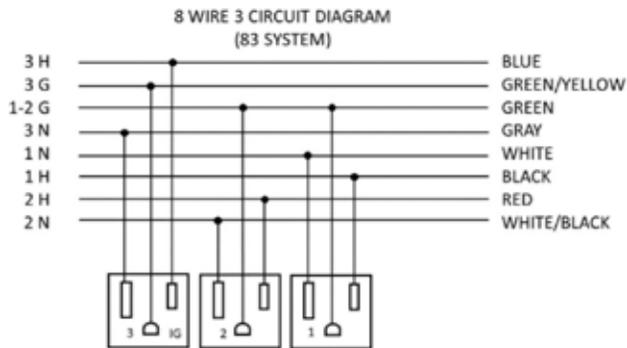
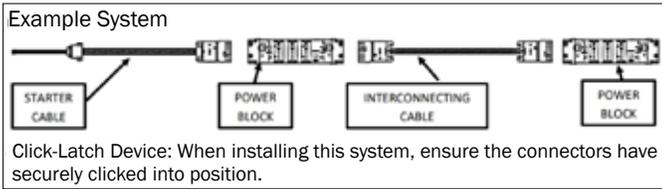
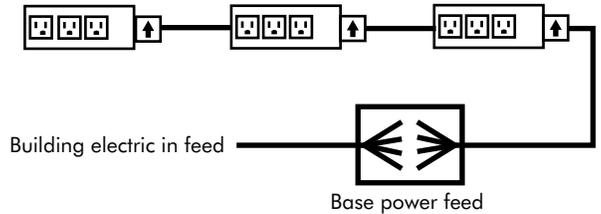
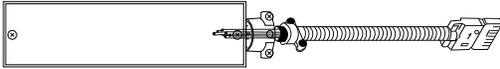


View Installation video here:

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

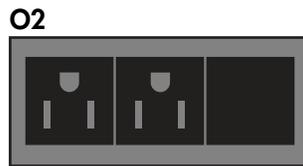
The Power System is an eight wire system consisting of four individual circuits rated at 20 amps/120 volts maximum. Circuit 1 (black), circuit 2 (red), and circuit 4 (pink), are served by a system neutral (white) and an equipment ground (green). Circuit 3 (blue) uses an isolated neutral (gray), and an 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 moduls, please make sure ARROW is up

Outlet Layout Options



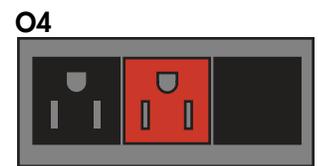
OUTLET - BLANK - BLANK



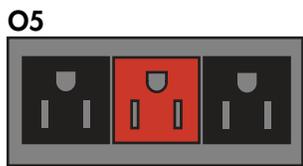
OUTLET - OUTLET - BLANK



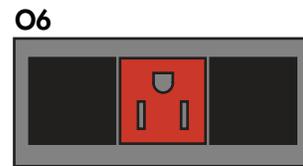
OUTLET - OUTLET - OUTLET



OUTLET - DEDICATED* - BLANK



OUTLET - DEDICATED* - OUTLET



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



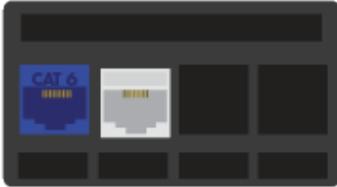
CAT 6 - CAT 6 - CAT 6 - Blank

DM4



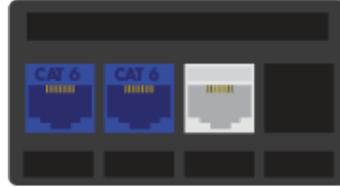
CAT 6 - CAT 6 - CAT 6 - CAT 6

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% |
|------------------------------------|-------------------|--------|

Fungi Resistance

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

Thermal Resistance

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

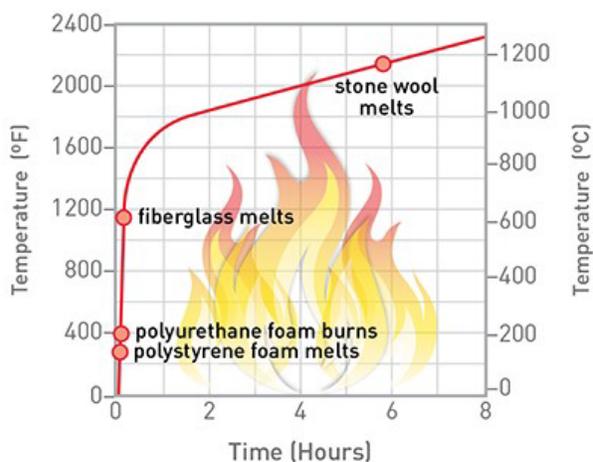
Maximum Service Temperature

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

Fire Performance

| | | |
|--|------------------------------------|---|
| ROCKBOARD® 40/60/80 CAN4 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)



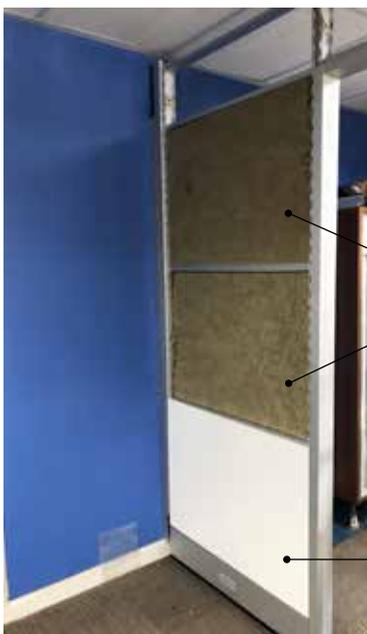
Compliance and Performance

| | | |
|--------------------------------|---|-----------------------|
| 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