SAPPHIRE WALL SYSTEM

Installation Guide

84”H-108”H

SAPPHIRE WALL SYSTEM

SKUTCHI DESIGNS

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.

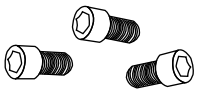
6. Professional installation recommended.

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.

SAPPHIRE WALL SYSTEM

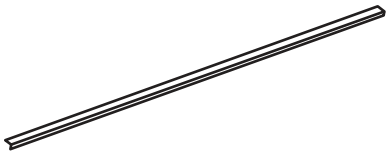
SKUTCHI DESIGNS

Identifying Parts

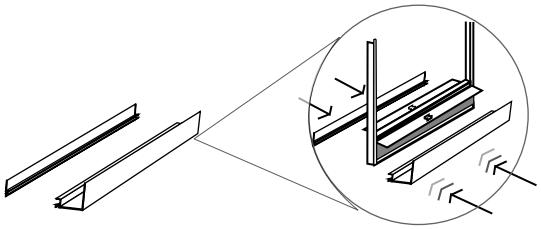


1/2" Hex Bolts- for connectors
1" Hex Bolts- for panel to panel connectors
3" Hex Bolts- for wall starter

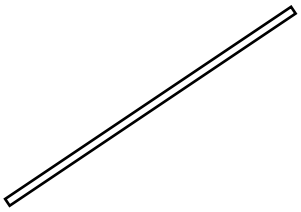
2" Sheet Metal Screws
for top beam.



Top Beam

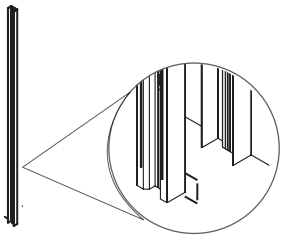


Bottom Track



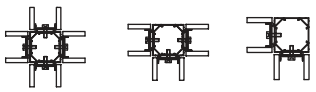
Spacer

Spacer Threaded
and not Threaded



Wall Starter

Stack up
Connector



x T L

Connectors

End Trim

Full Slab
Frame

Panel
Frame

Panel Topper- 10"
Panel Topper- 20"

Tiles

Glass Laminate Fabric

Sliding Swinging Open

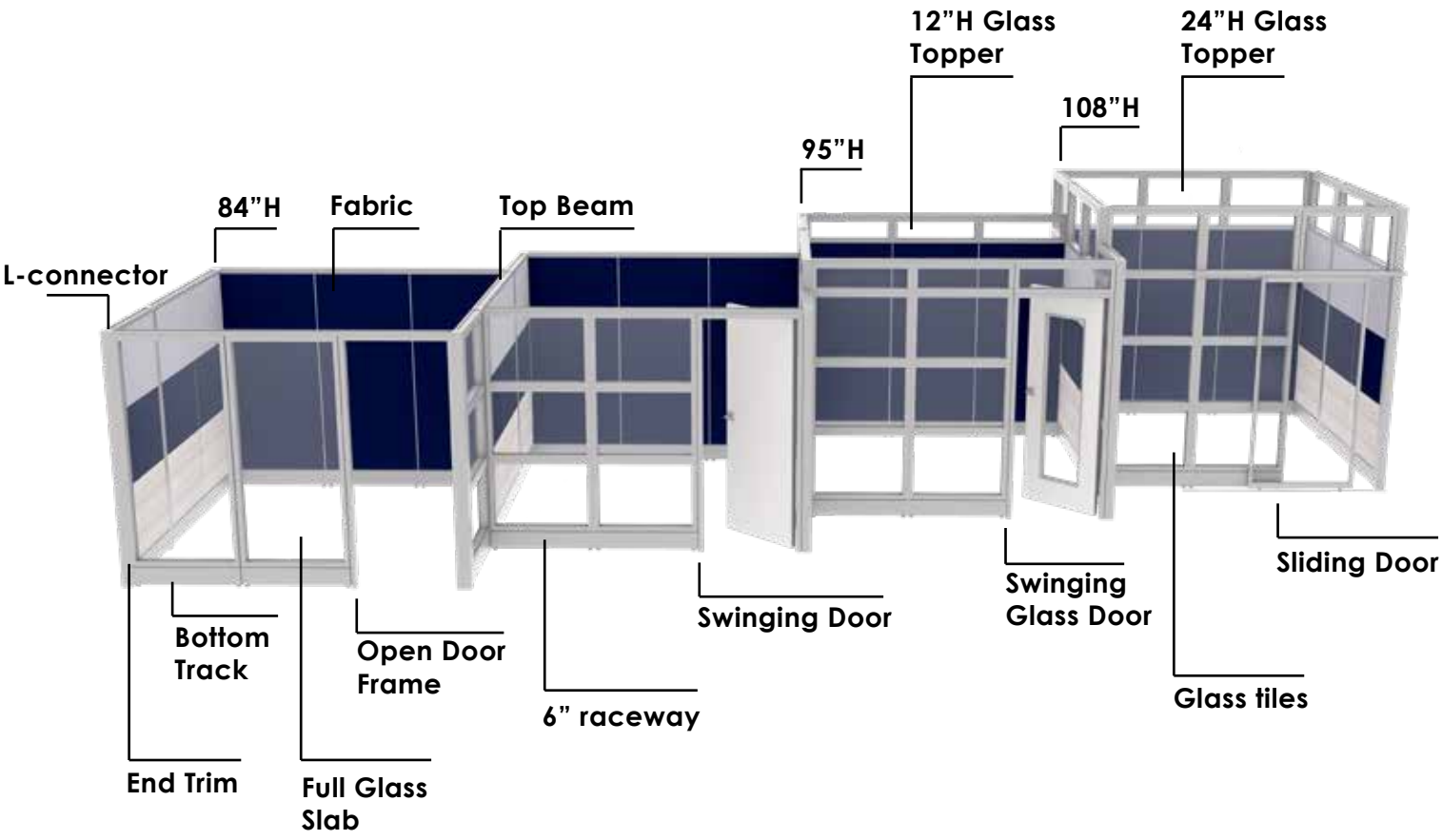
Door and Frame

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

Light Blockers
Small/Large

SKUTCHI DESIGNS INC®

Example Images



Example of bottom track option

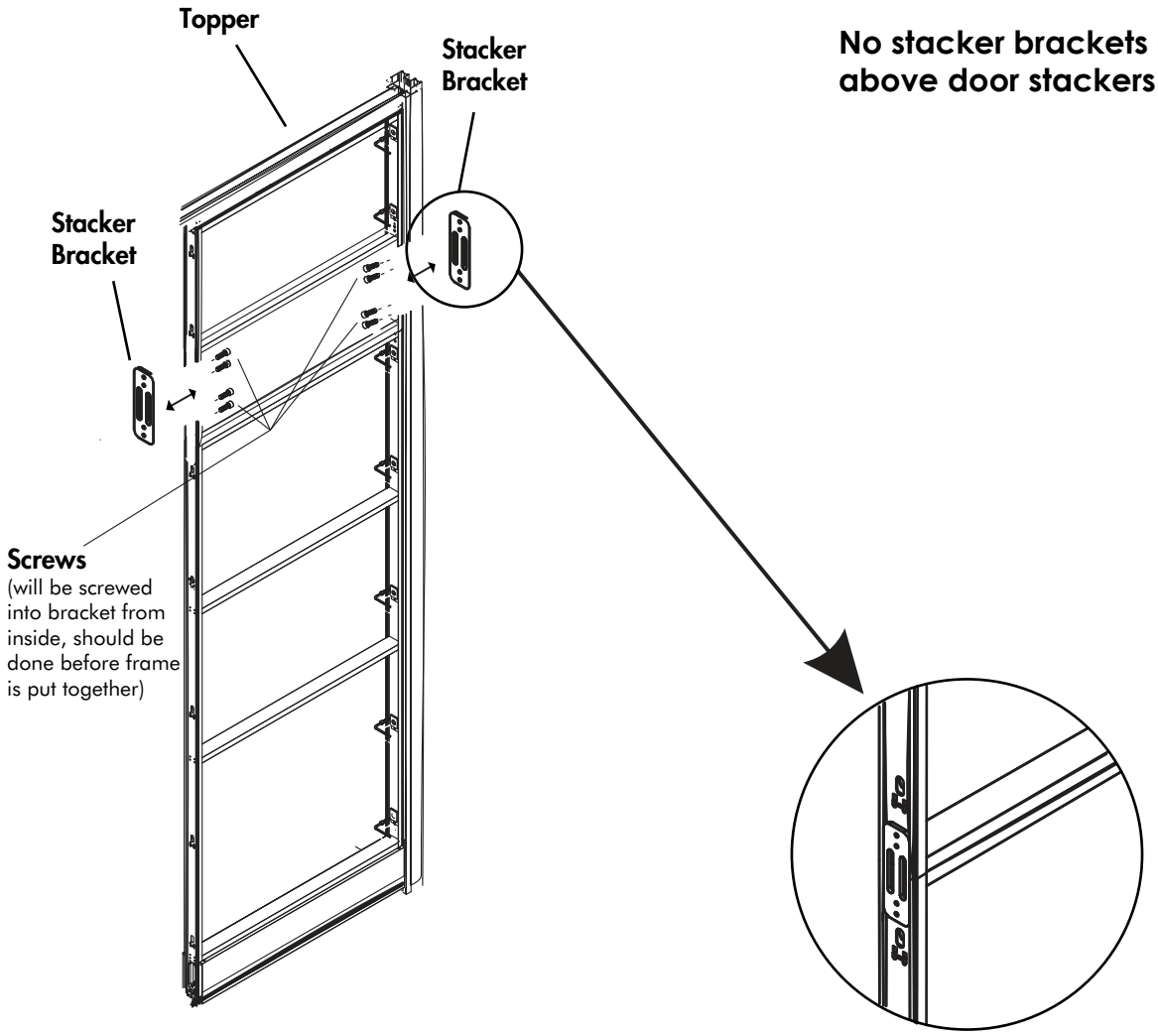
With bottom track

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



No stacker brackets on above door stackers

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

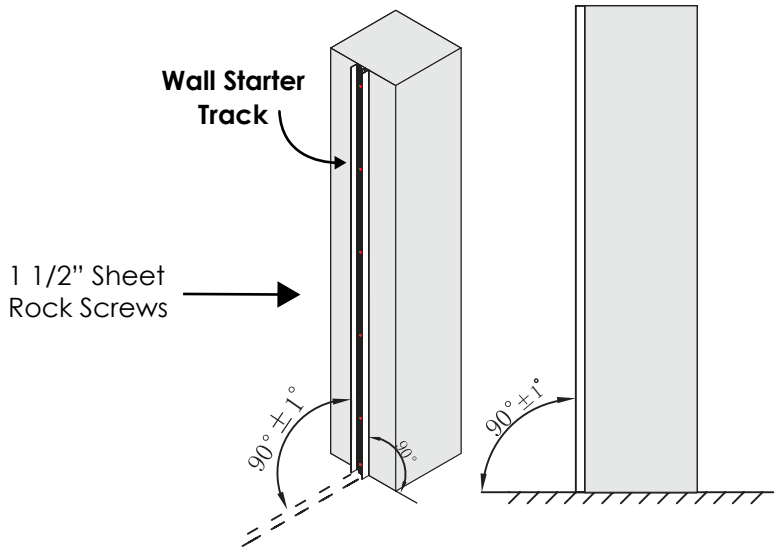
***108”H wall system will have a 24”H topper**

View Installation video here:

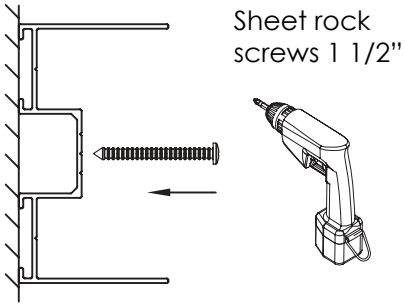
https://youtu.be/ULeI-iZAwAk

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

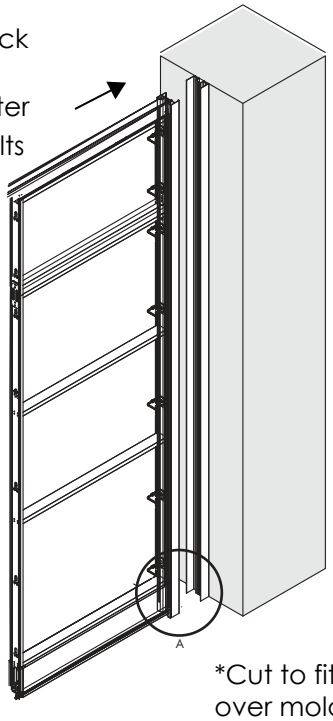


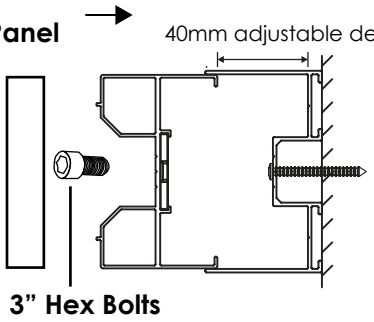
Fix the side groove into wall

Step 3:

Slide frame into track

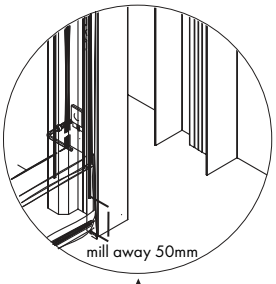
Connect Wall Starter To panel using 3" hex bolts





***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.

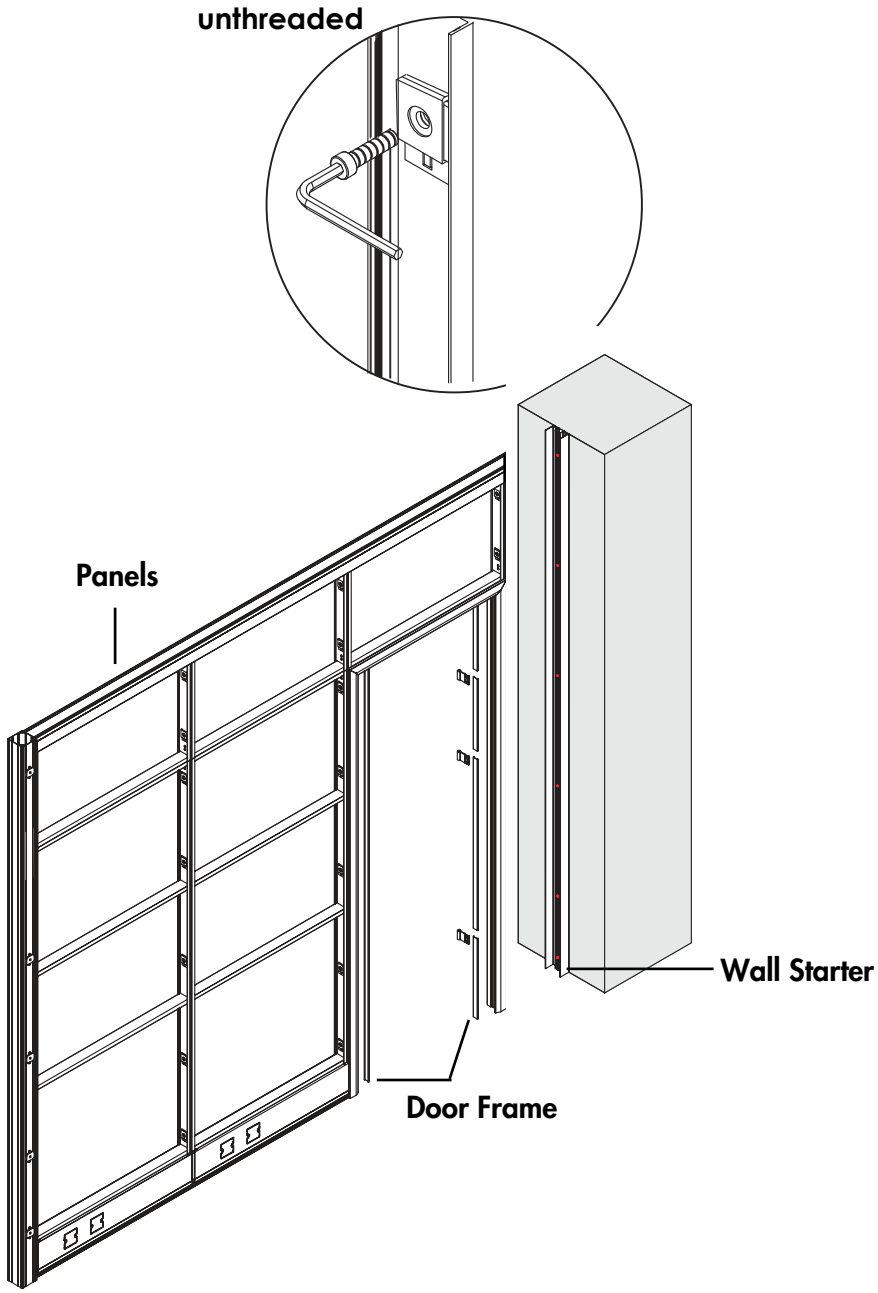
View Installation video here:

https://youtu.be/jMRIdvsThrQ

SKUTCHI DESIGNS

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.



SKUTCHI DESIGNS

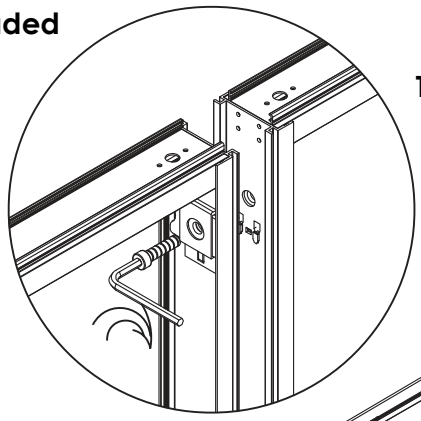
Straight Connectors

***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 con be interchanging.

View Installation video here:

https://youtu.be/-KztYAftzi0

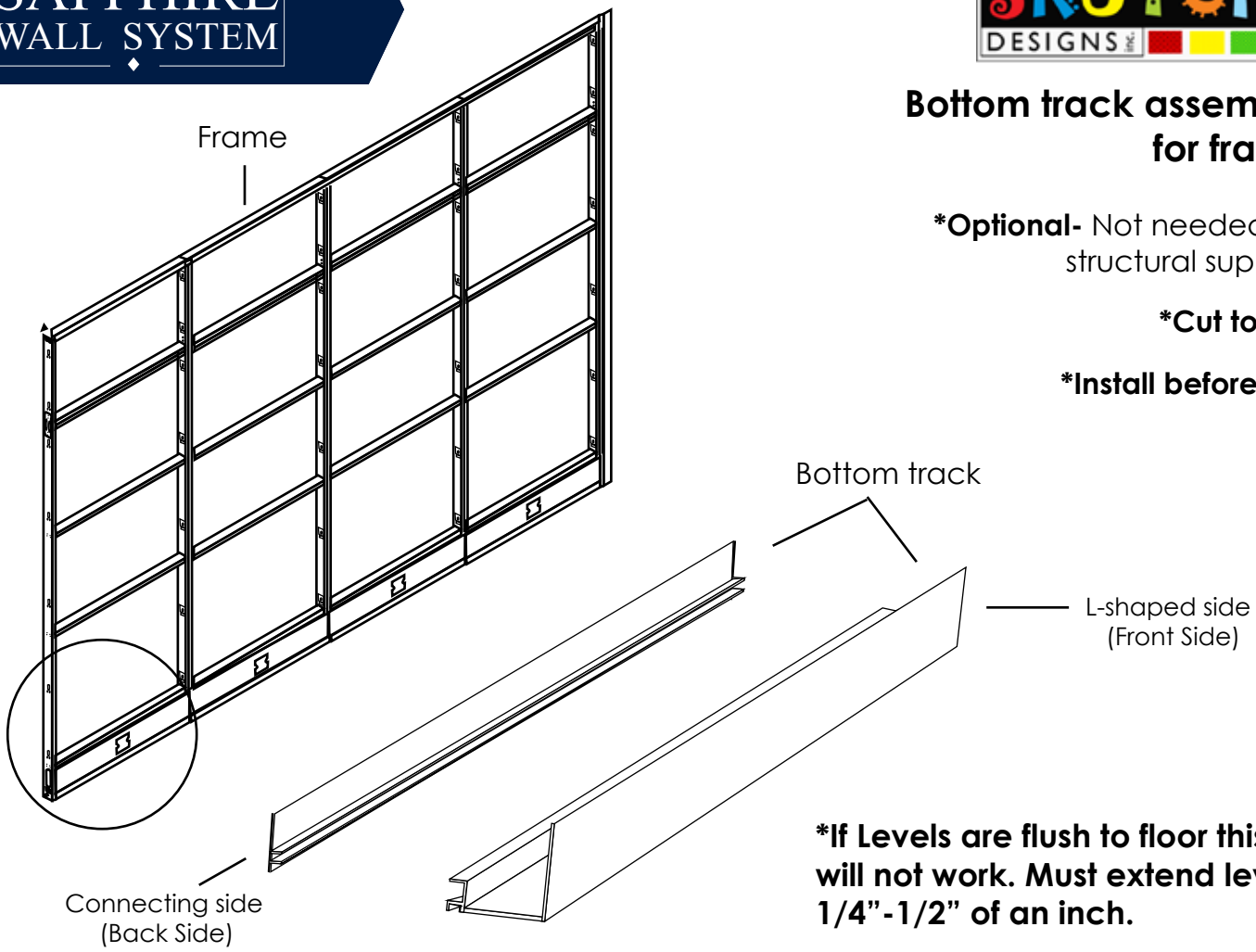
SKUTCHI DESIGNS

Bottom track assembly for frame

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

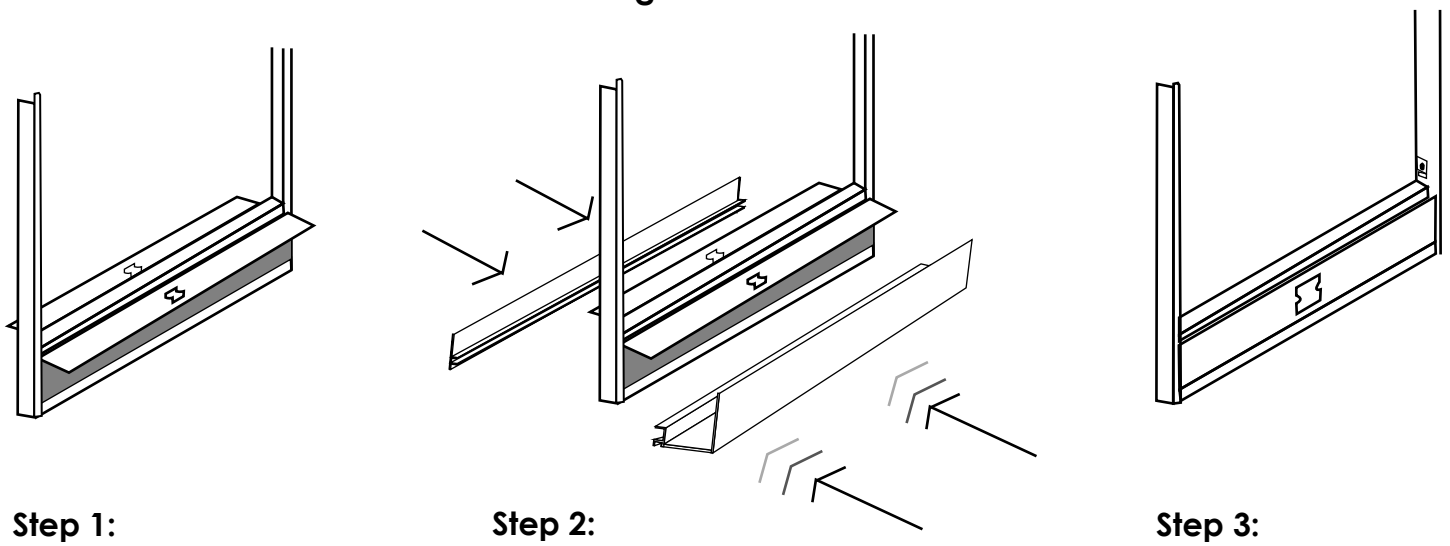
***Cut to size**

***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 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

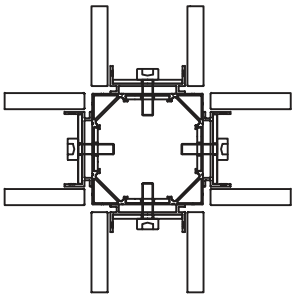
View Installation video here:

https://youtu.be/NaZqDuL9unM

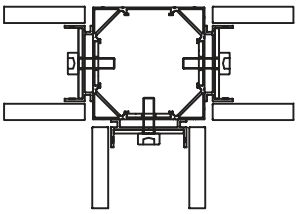
SKUTCHI DESIGNS

Attaching Connectors

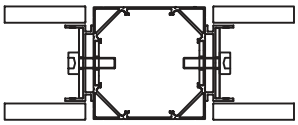
***All connectors simply bolt into panels.**



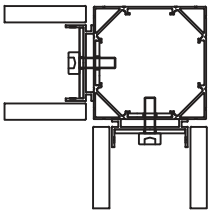
4 ways connection



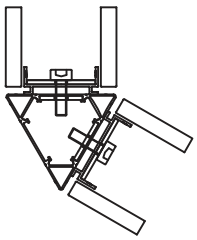
3 ways connection



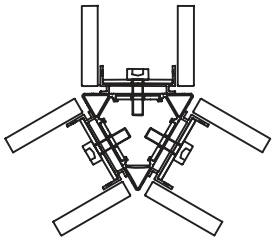
Straight Connector



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.

Adjust frame feet to correct height of conector

***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

SKUTCHI DESIGNS

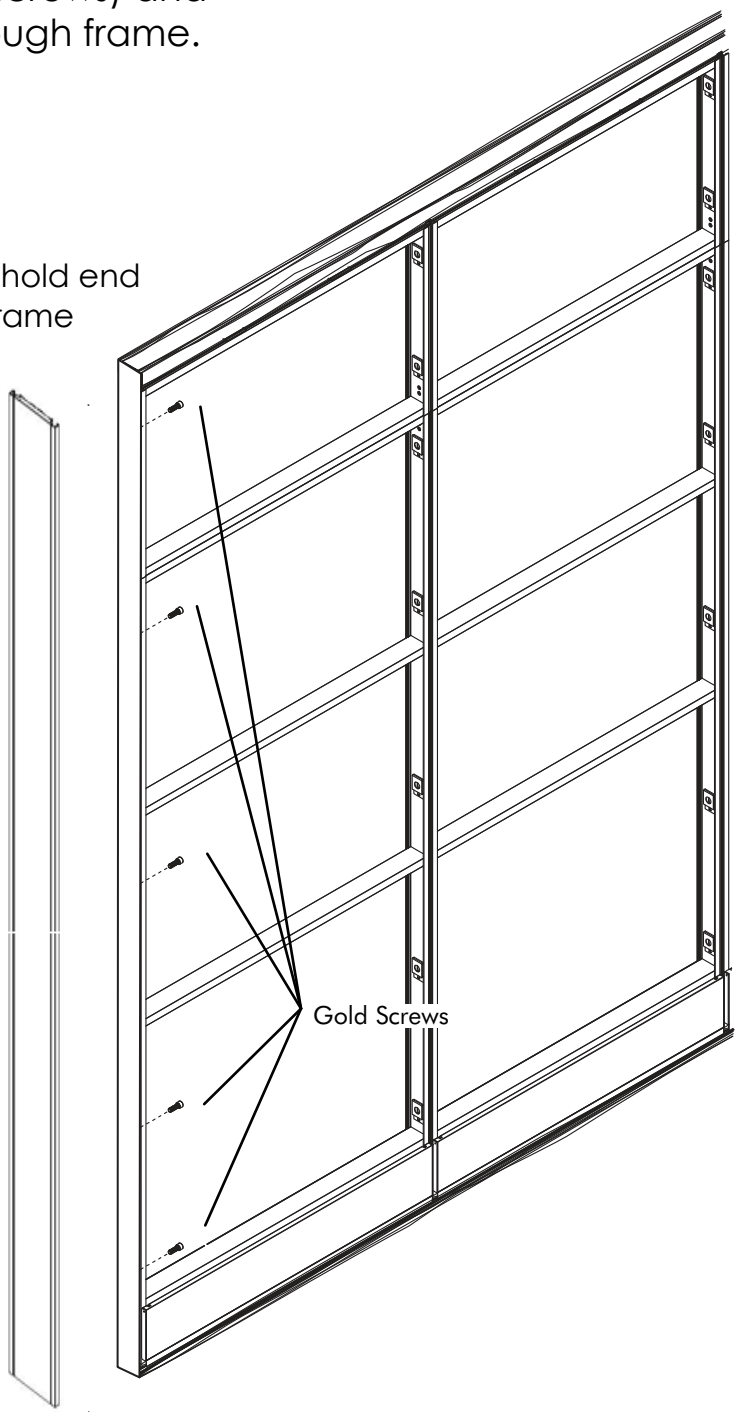
Attach End Trim to Wall system

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.



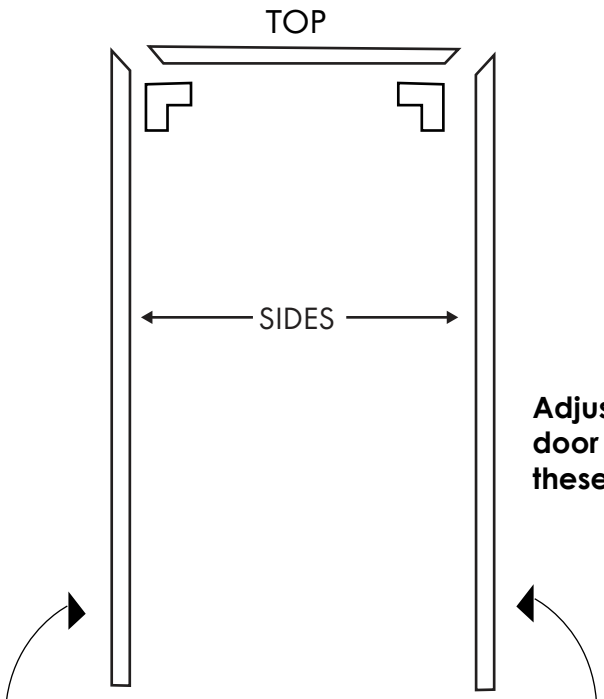
View Installation video here:

https://youtu.be/0hgIhQg3juU

SKUTCHI DESIGNS

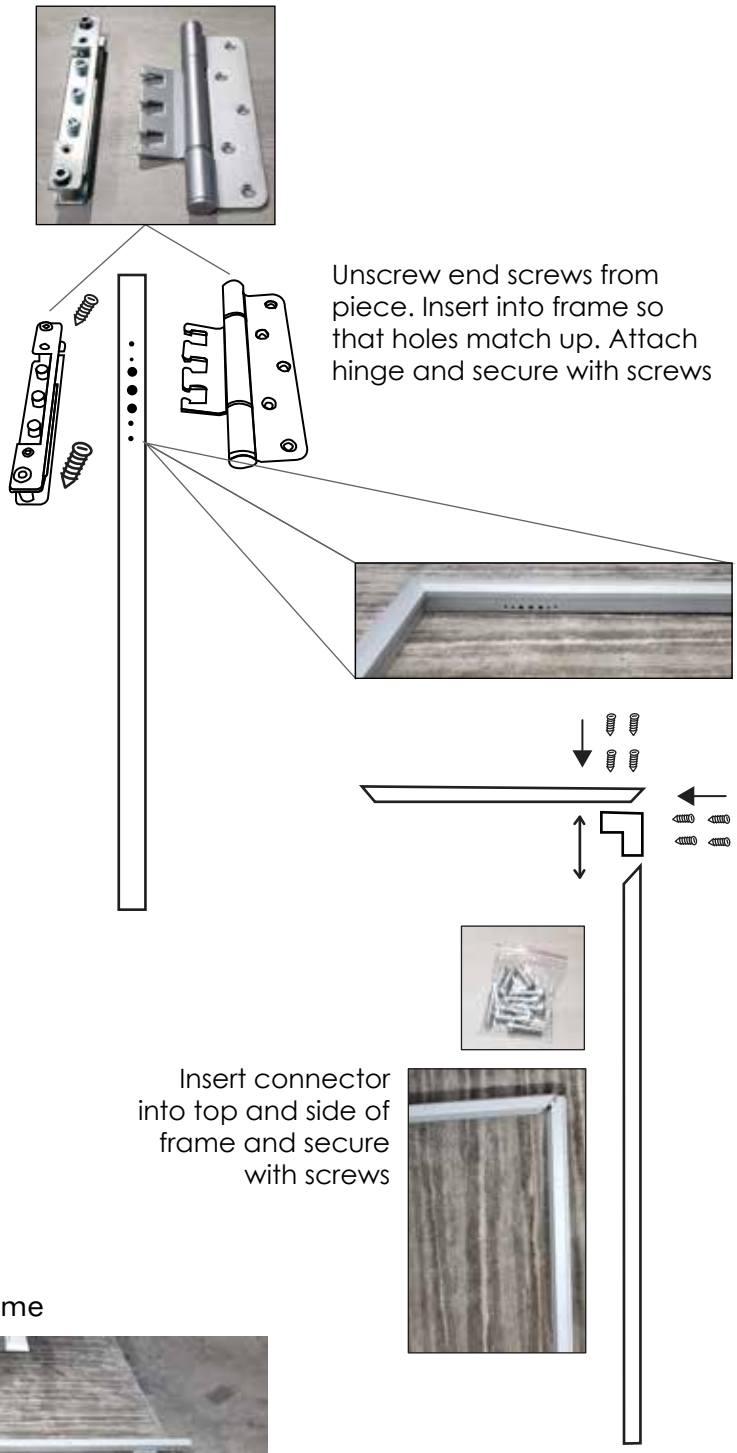
Door Frame Assembly

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



Adjust the door with these screws

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



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**

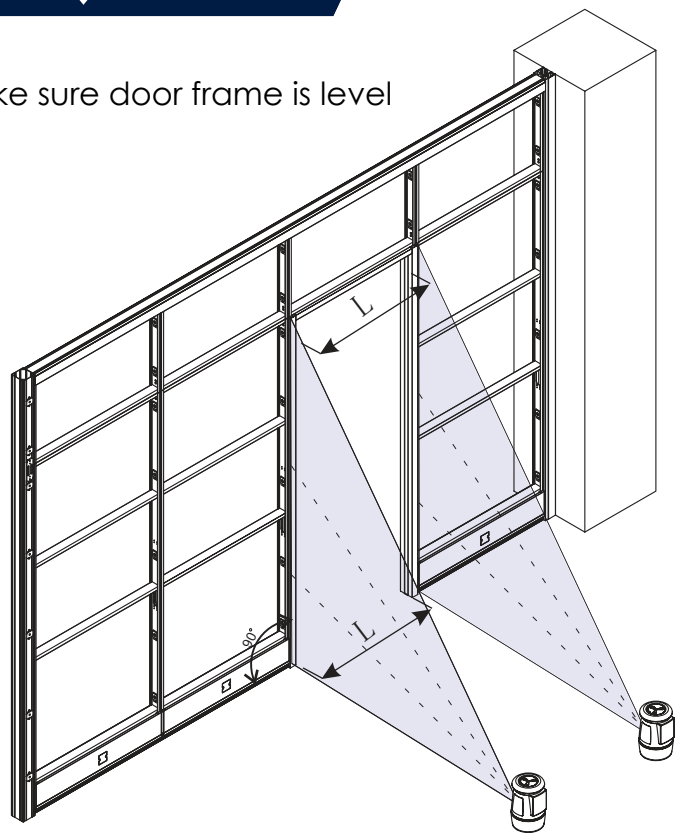
View Installation video here:

https://youtu.be/5iAHI74A6Uc

SKUTCHI DESIGNS

Installing Swing Door Frame

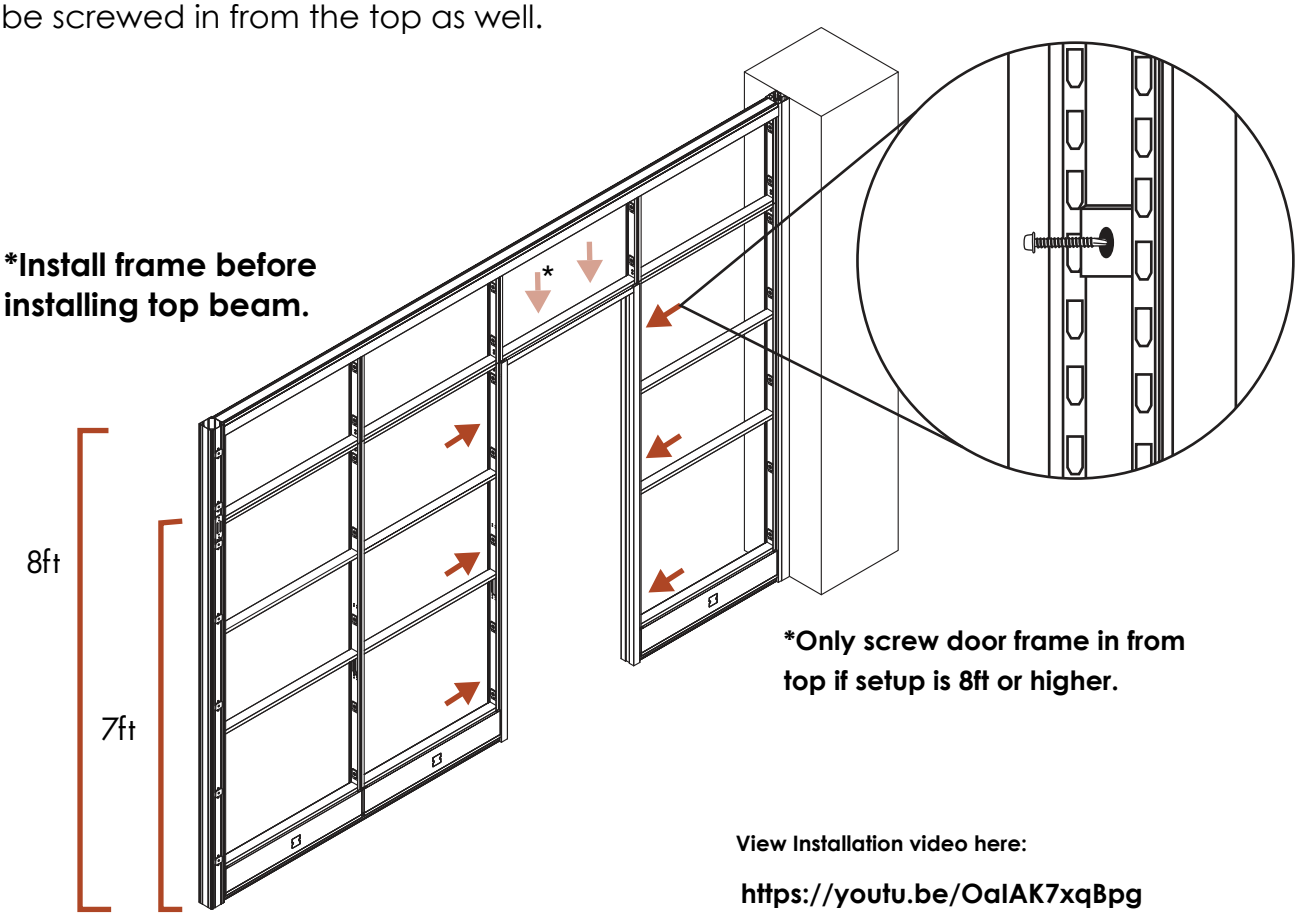
4. Make sure door frame is level



*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.**



***Only screw door frame in from top if setup is 8ft or higher.**

View Installation video here:

https://youtu.be/OaIAK7xqBpg

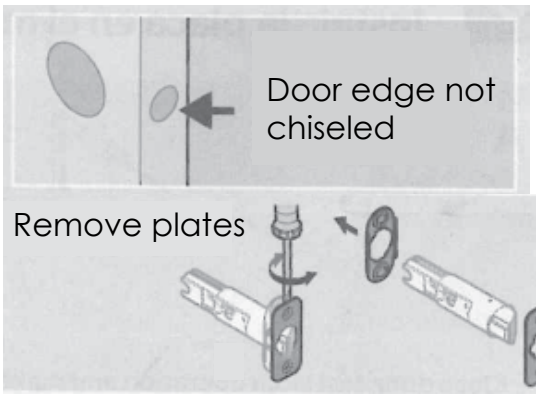
Install Door Latch

Follow this side if door edge is chiseled ▼

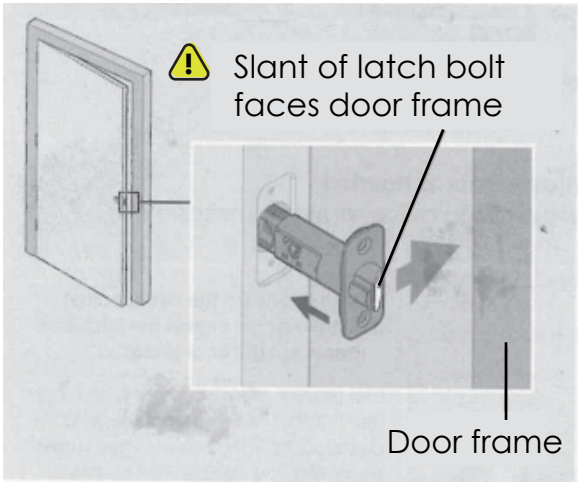
Follow this side if door edge is not chiseled ▼

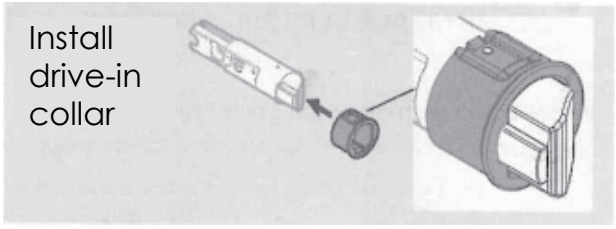
Step 1:

OR

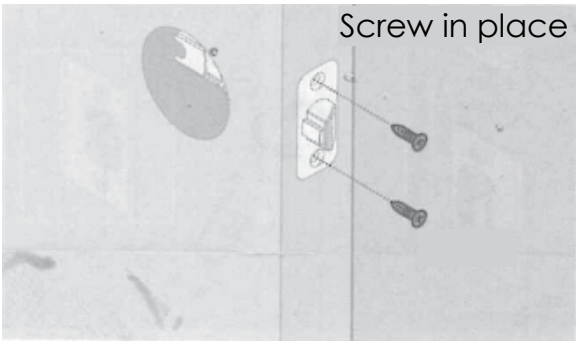


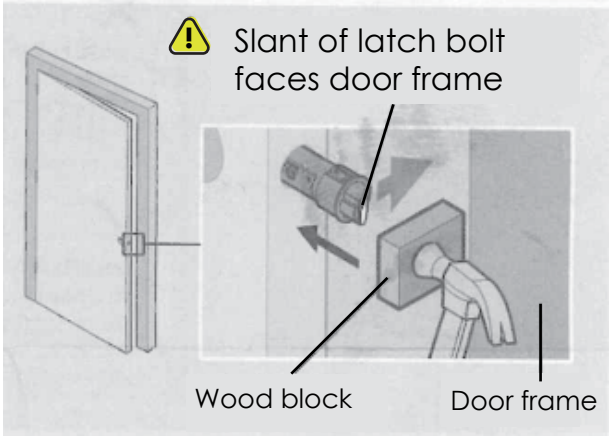
Step 2:





Step 3:

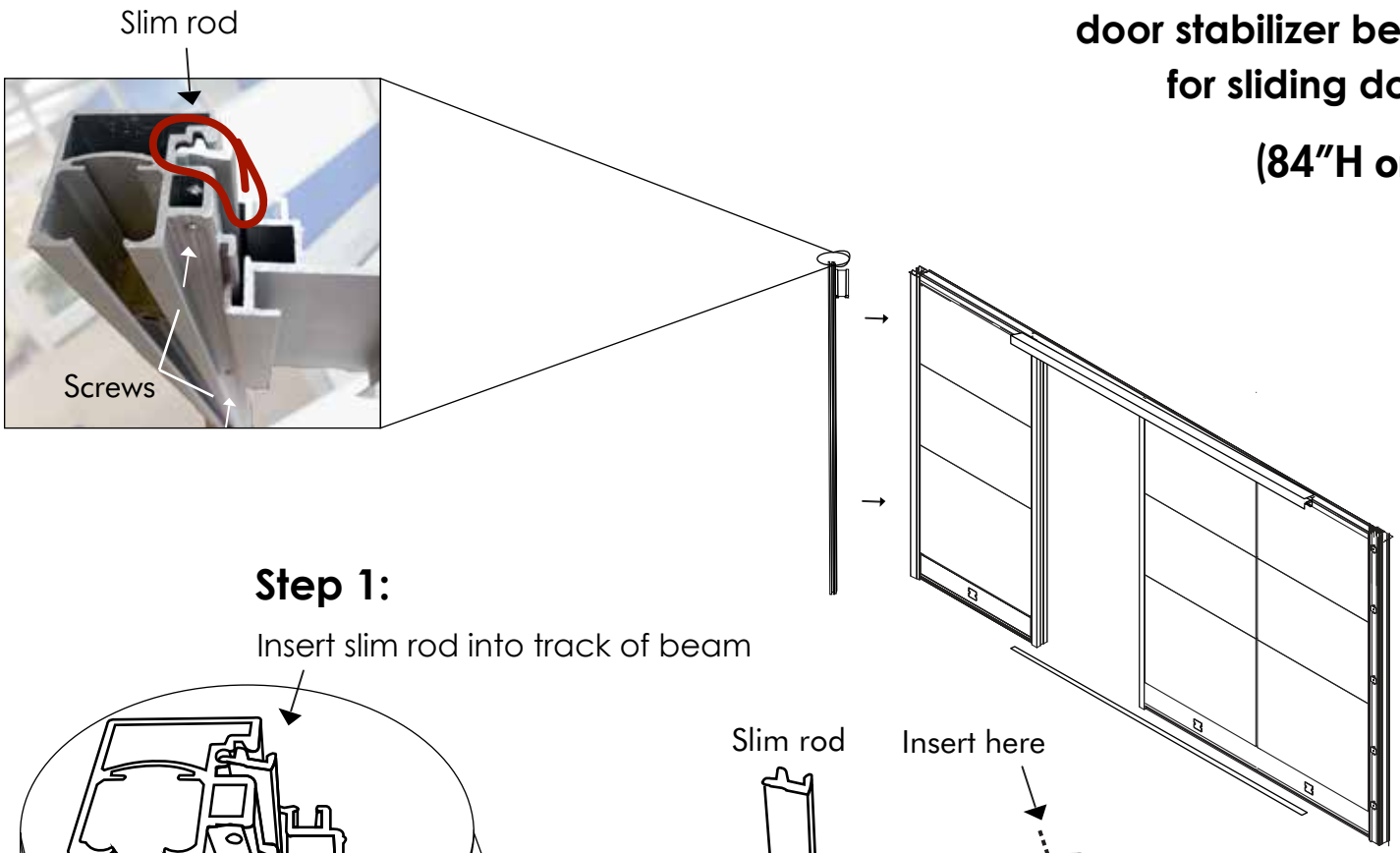




SKUTCHI DESIGNS

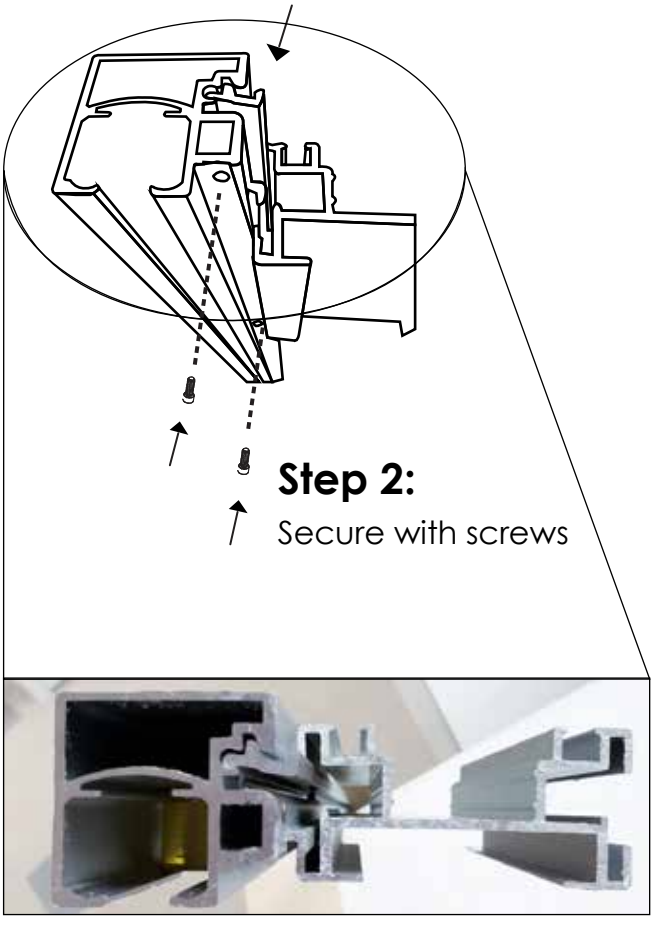
Installing slim rod to door stabilizer beam for sliding doors

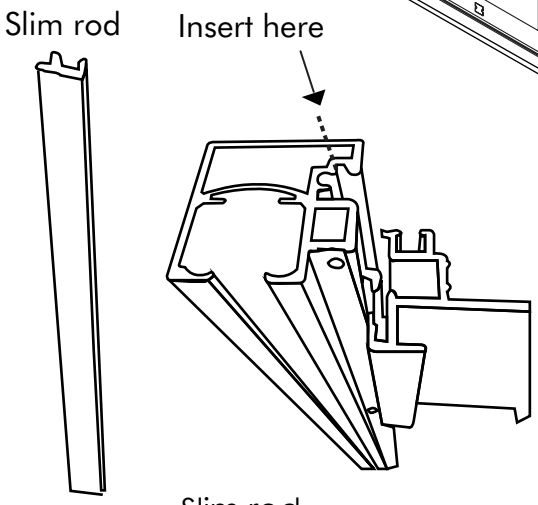
(84"H only)

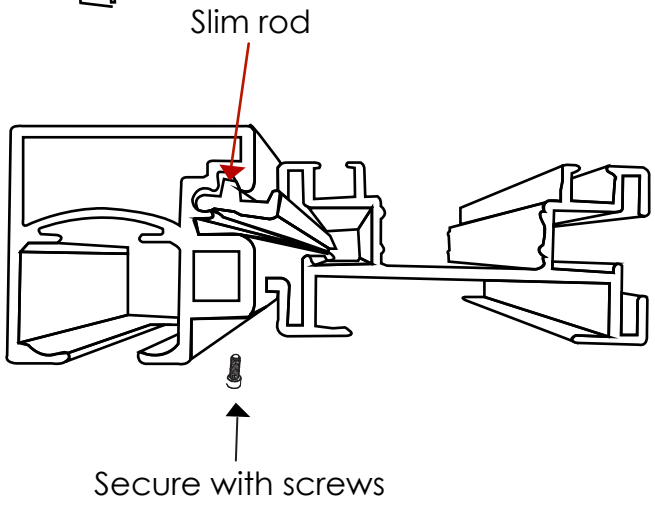


Step 1:

Insert slim rod into track of beam







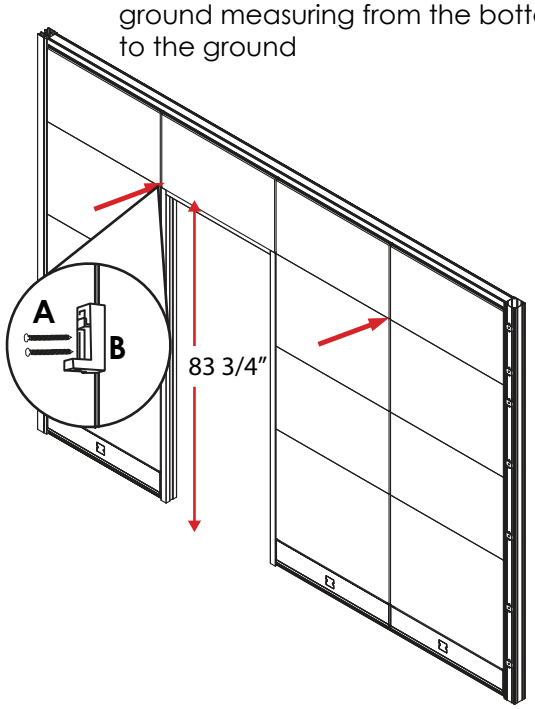
View Installation video here:

https://youtu.be/_4cBCwJAmaM

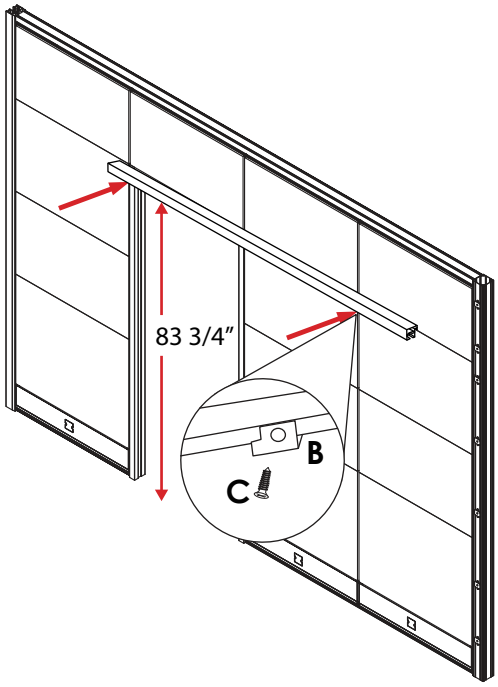
SKUTCHI DESIGNS

Sliding Door Assembly

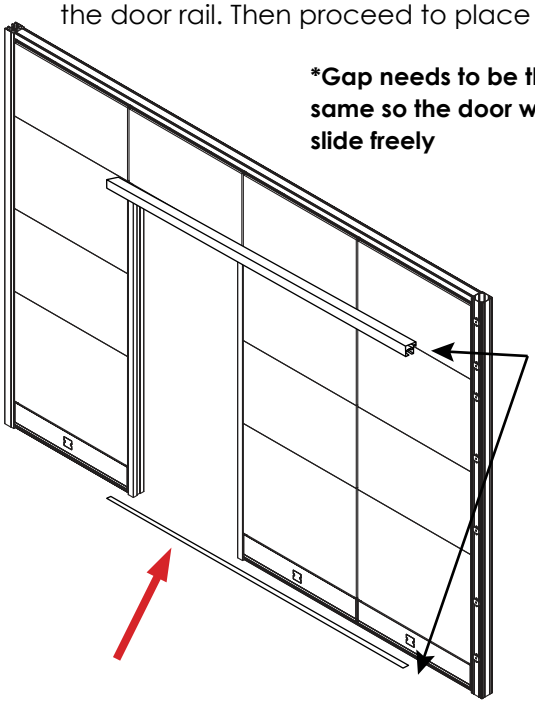
1. Screw in sliding door track directly into panel. Door rail must be placed 83 3/4" from the ground measuring from the bottom of the rail to the ground



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.

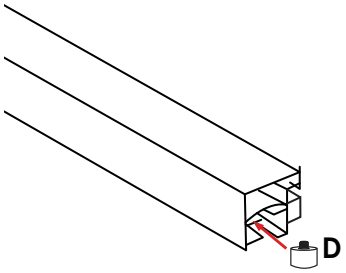


3. Place sliding door bottom track on floor using double sided tape, velcro, or glue; Lining it up with the door rail. Then proceed to place in sliding door.

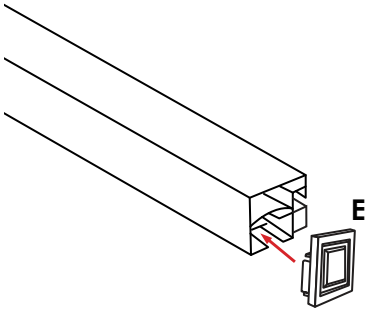


***Gap needs to be the same so the door will slide freely**

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



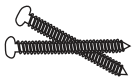
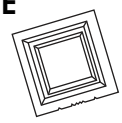
5. Place sliding door rail finish caps



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:

A	B	C	D	E
				
Track Clips Screws	Track Clips	Door Rail Screws	Stopper	Finish Caps

View Installation video here:
https://www.youtube.com/watch?v=xhDhiL7eM0I

SKUTCHI DESIGNS

Installing Door Frame Against Connector

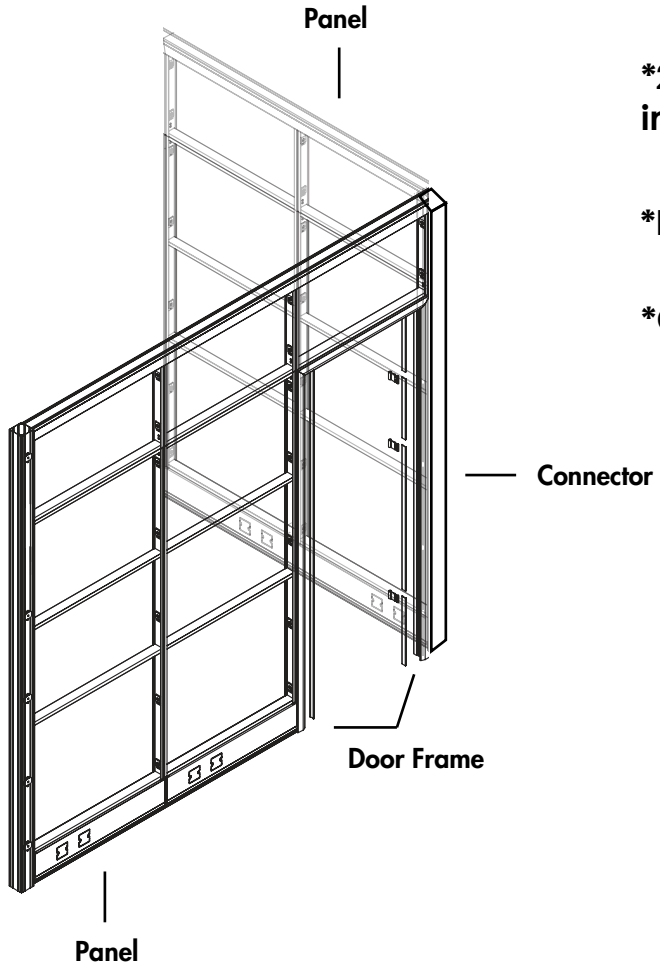
1. When installing a door frame against a connector:

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**

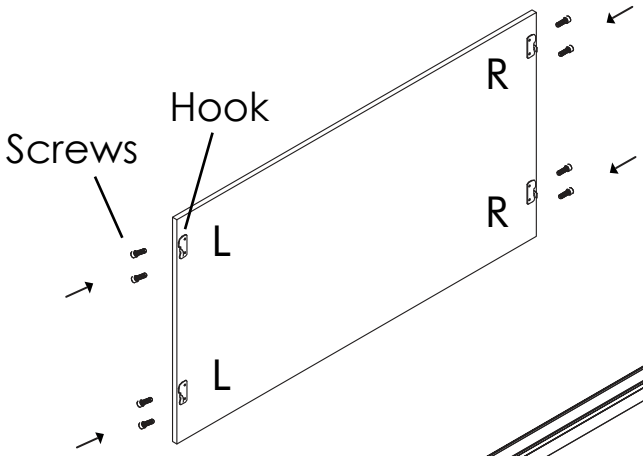
***Change new hinges**

View Installation video here:

https://youtu.be/76n4jfOB1OU

SKUTCHI DESIGNS

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/_qhIGucfsfY

SKUTCHI DESIGNS®

Top Beam Panel Stabilizer

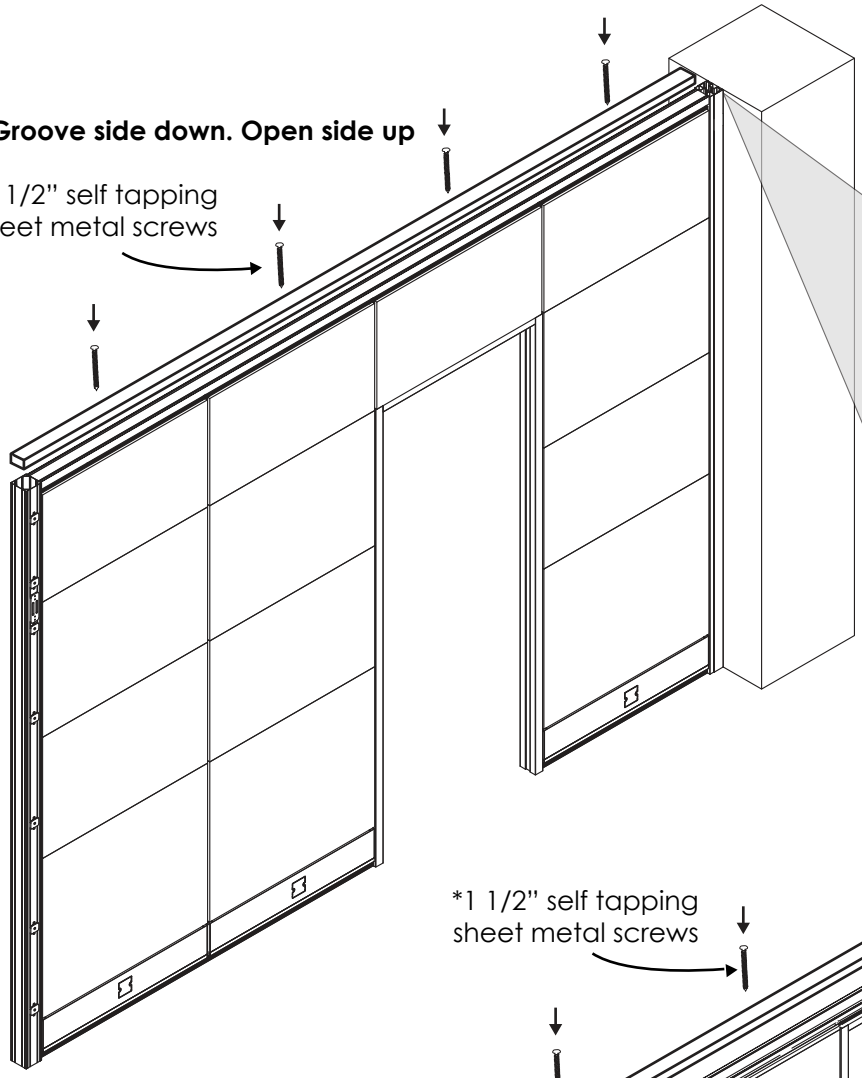
*May need to be cut to size.

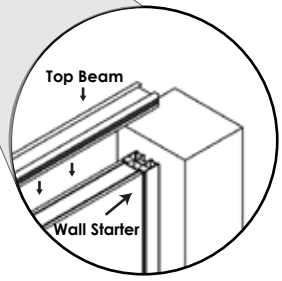
***To be installed last**

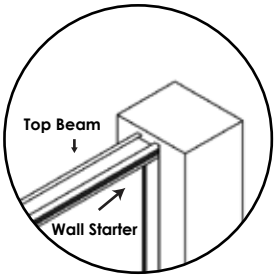
***MAKE SURE TOP BEAM GOES OVER WALL STARTER AND PANELS!**

***Groove side down. Open side up**

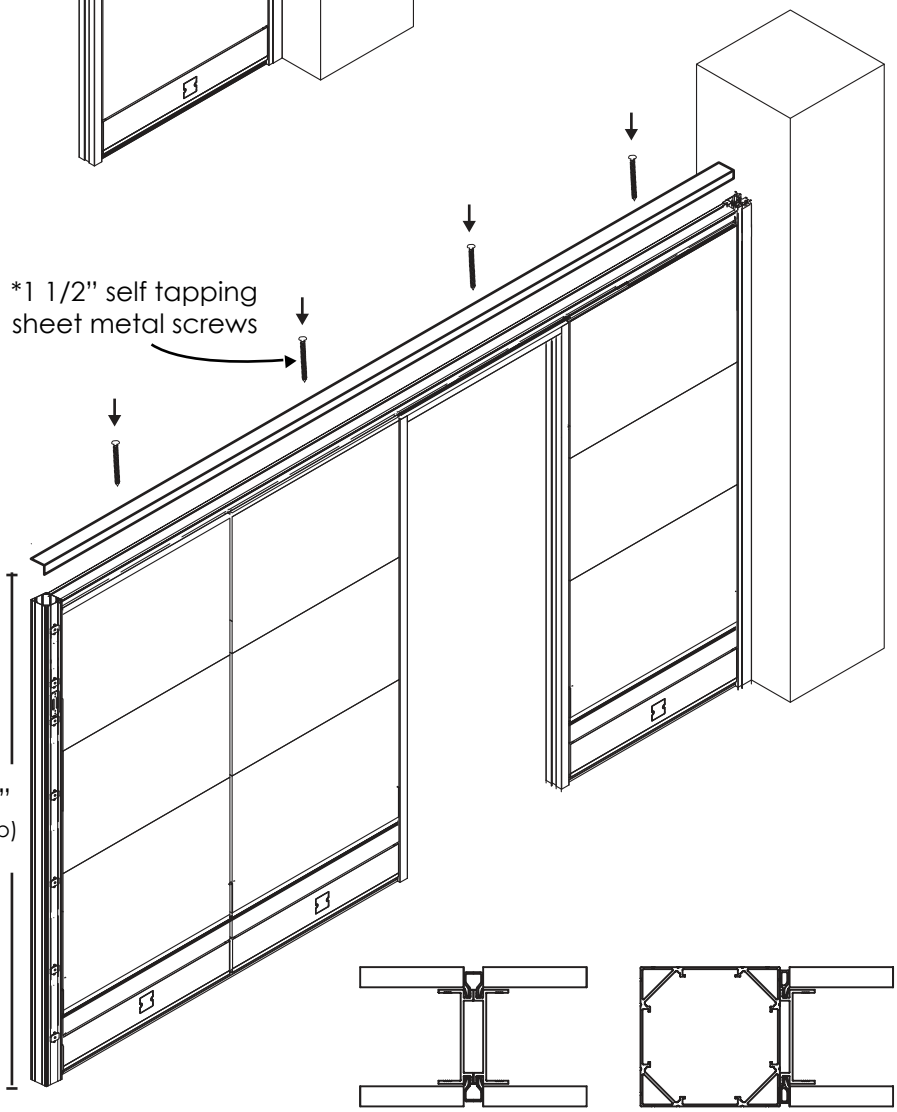
*1 1/2" self tapping sheet metal screws



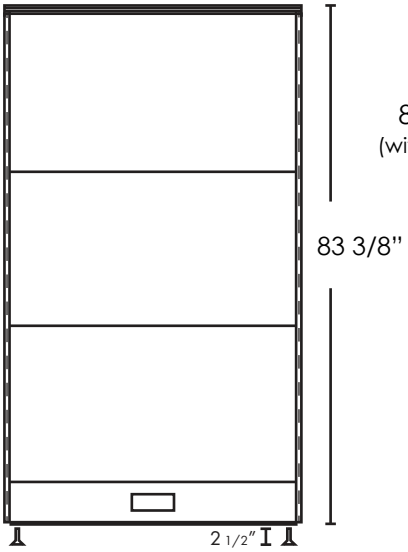




*1 1/2" self tapping sheet metal screws



7"H Custom Panel



SKUTCHI DESIGNS

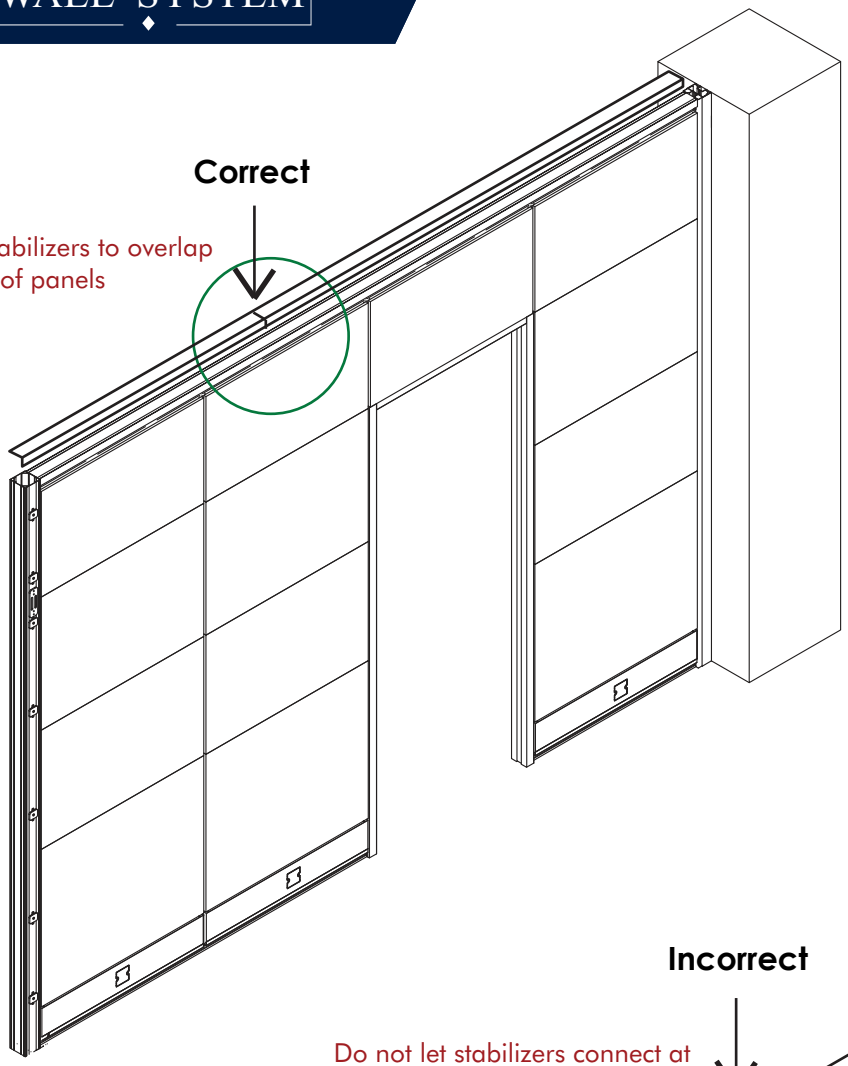
Top Beam Panel Stabilizer

*May need to be cut to size.

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

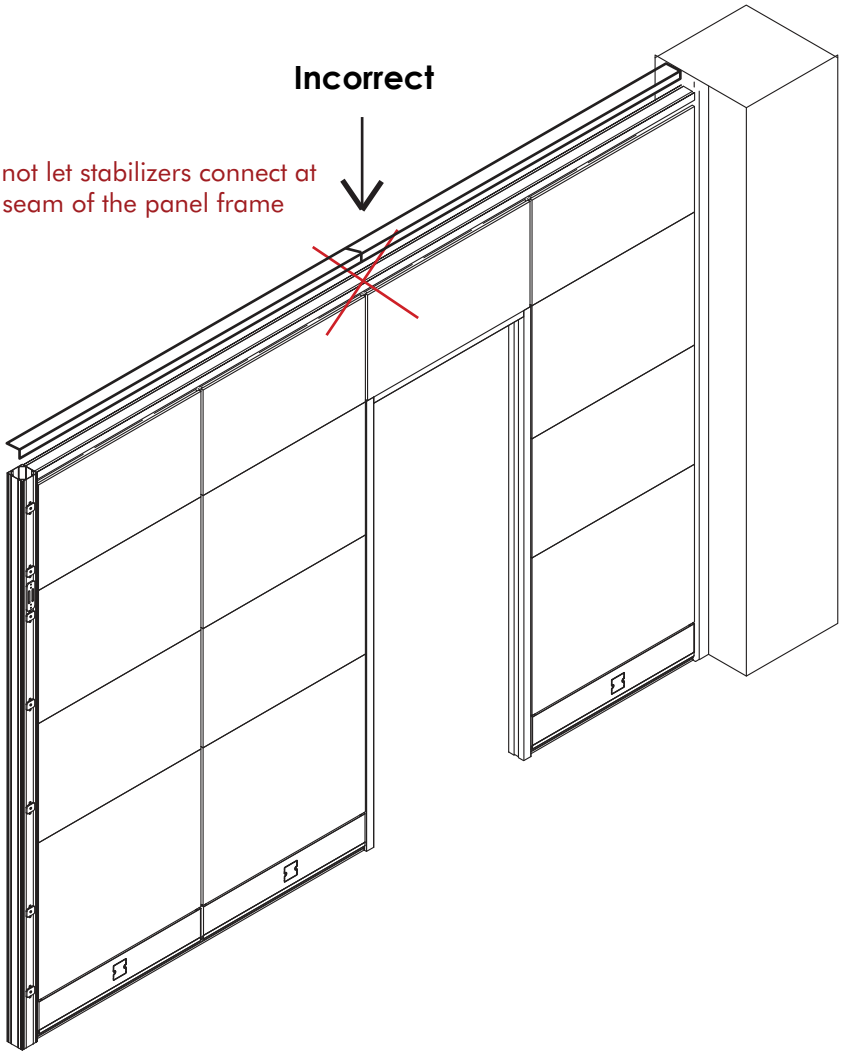
Correct

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

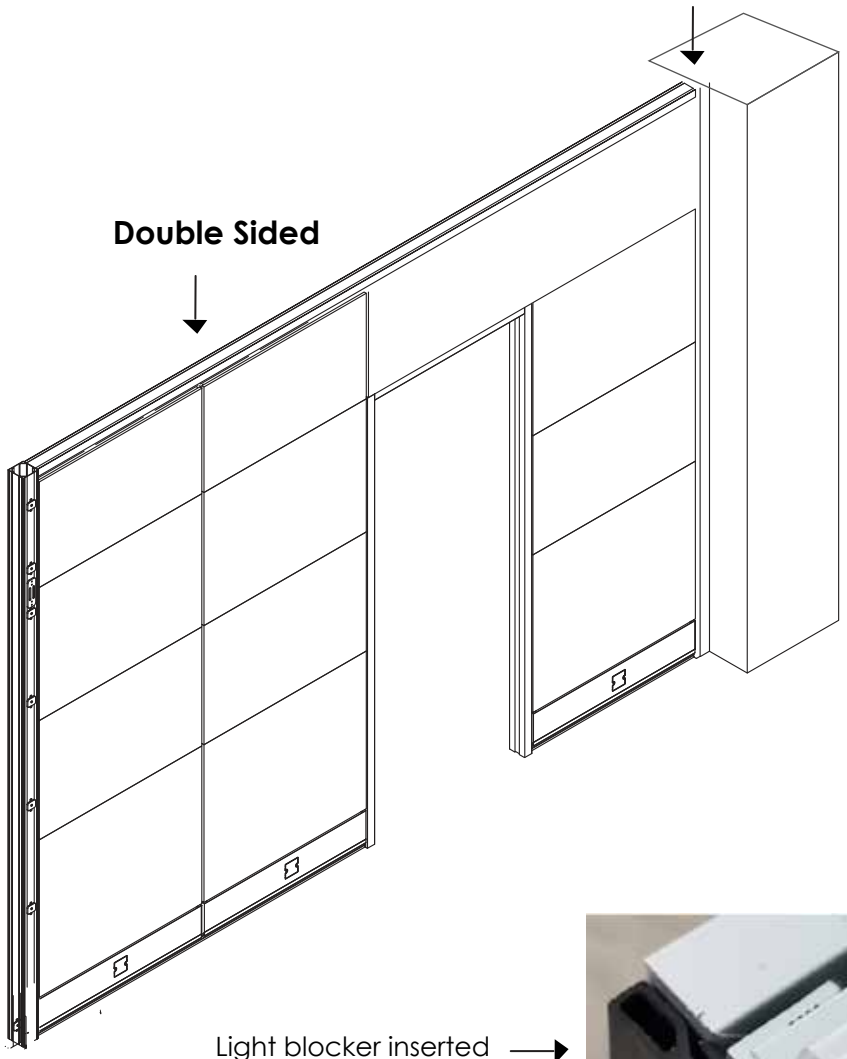
Light Blockers

Single sided by any connector.

Double sided in between panels.

Single Sided

Double Sided



Light Blockers

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

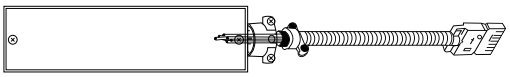
Light blocker inserted →

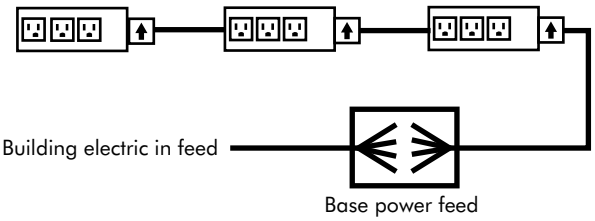
View Installation video here:

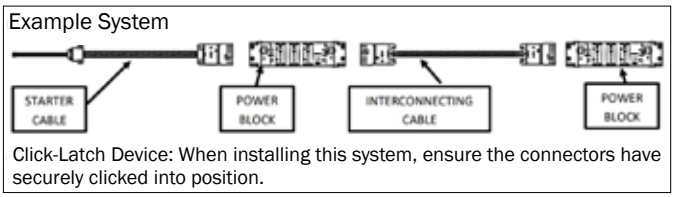
https://youtu.be/_aX_EJXjXdk

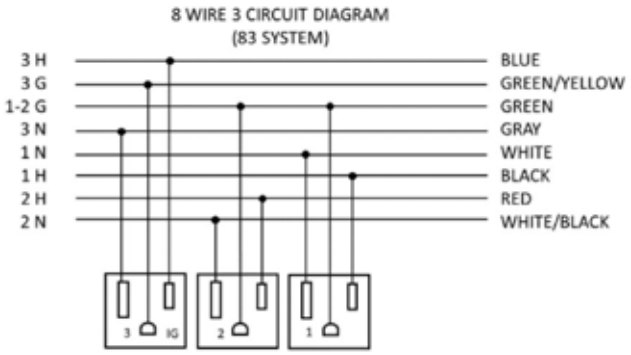
FINAL CONNECTION IS DONE BY A LICENSED ELECTRICIAN

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 equpiment 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 perimtted by local code.

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

Outlet Layout Options

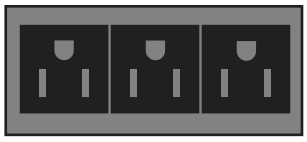
O1

OUTLET - BLANK - BLANK

O2

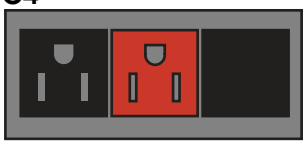
OUTLET - OUTLET - BLANK

O3



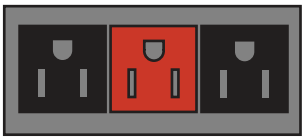
OUTLET - OUTLET - OUTLET

O4



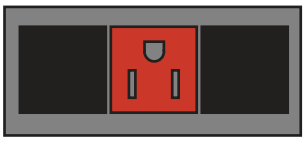
OUTLET - DEDICATED* - BLANK

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

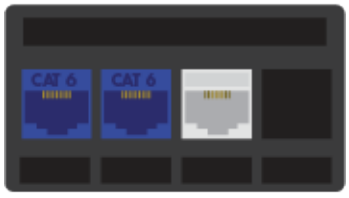
DM4

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%

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

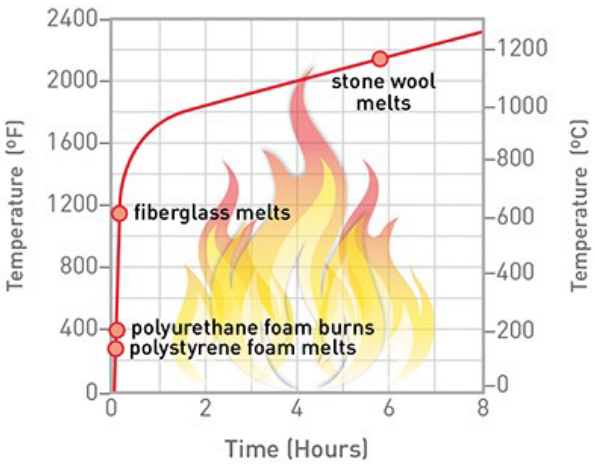
Maximum Service Temperature

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.