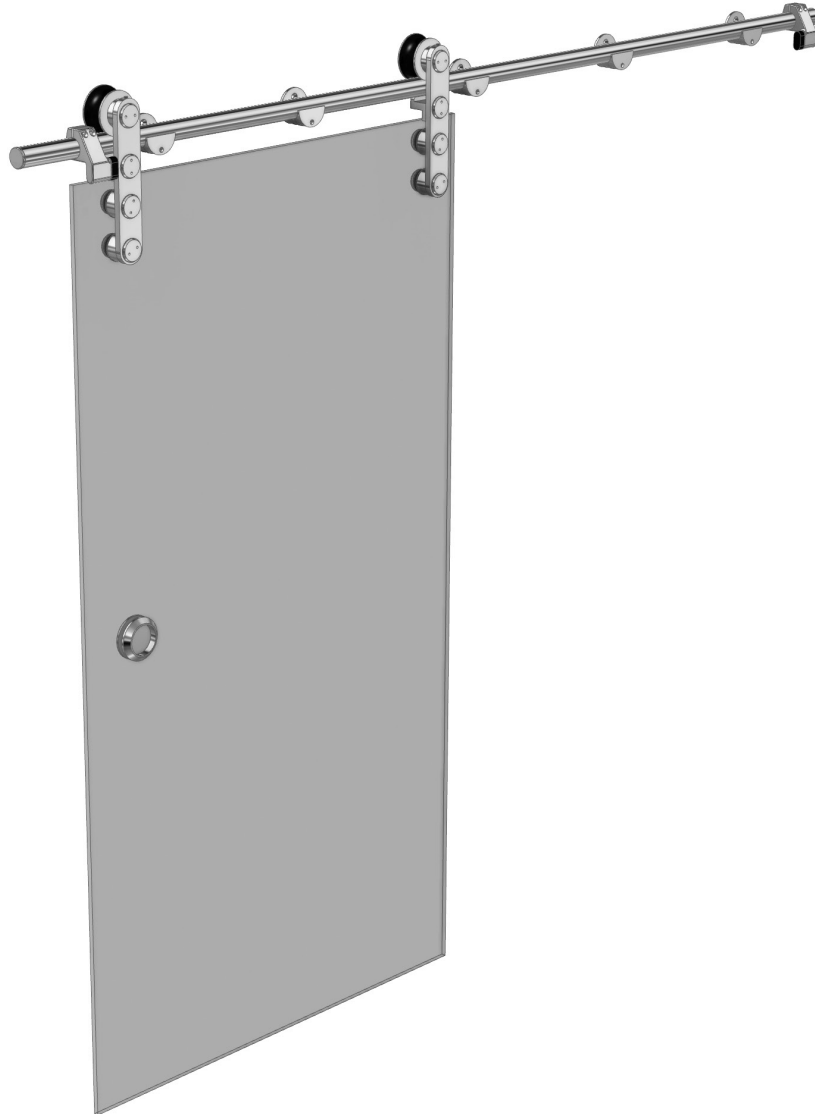


INSTALLATION INSTRUCTIONS

LAGUNA SERIES SLIDING DOOR KITS



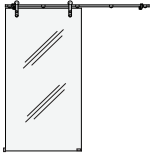
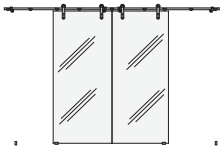
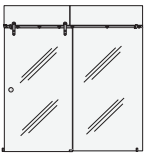
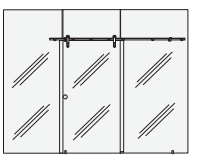
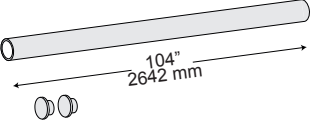
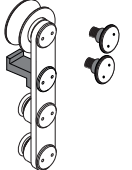
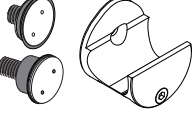
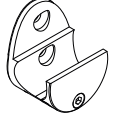


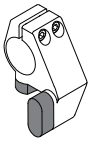
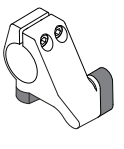

2503 E. Vernon Avenue, Los Angeles, CA 90058-1826
(800) 421-6144 Fax (800) 262-3299
crlaurence.com

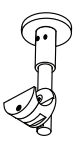


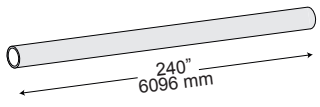

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ORDER OF ASSEMBLY AND INSTALLATION

PARTS LIST	3
REQUIRED TOOLS	3
INTRODUCTION	4
SYSTEM LIMITATIONS	4
Hole Locations for Wall Mount: Single Slider	5
Hole Locations for Wall Mount: Bi-Parting Sliders	6
Hole Locations for Glass Mount: Single Slider	7
Hole Locations for Glass Mount: Single Slider with Sidelites	8
INSTALL HARDWARE: WALL MOUNT	9
Attach Wall Mount Clamps to Sliding Tube	9
Position Level to Wall	9
Mount the Wall Mount Clamps	10
Install Left and Right Door Stops	10
INSTALL HARDWARE: GLASS MOUNT	11
Attach Glass Mount Clamps	11
Assemble Glass Mount Clamps	11
Install Left and Right Door Stops	11
PREPARE AND HANG DOOR	12
Prepare Top Rollers	12
Mount Top Rollers Onto Door	12
Hang Door	13
Install Floor Guide	14
Install Anti-Lift Block	15
Install Floor Mount Door Stops	15
Place Glass Edge Protectors	16
Install Sliding Tube End Caps	16
INSTALL ACCESSORIES	17
Install Wall Mount End Cap (For LSGM5BS Only)	17
Install Thru-Glass Pull FP214BS (Optional)	17
Install Ceiling Mount Clamp LS412BS (Optional)	18
MAINTENANCE	19
CARE AND CLEANING OF STAINLESS STEEL	19
JOB SITE ESSENTIALS	20


PARTS LIST

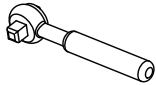
Part #	Description	Part #	Description	Part #	Description	Part #	Description	
LSWM5BS	 <p>Kit Contains: 2 LS400BS 1 LS104BS 5 LS402BS 1 LS405LBS 1 LS405RBS 1 LS307BS 2 LS407BS</p>	LSWM6BS	 <p>Kit Contains: 4 LS400BS 2 LS104BS 10 LS402BS 2 LS405LBS 2 LS405RBS 2 LS307BS 2 LS407BS</p>	LSGM5BS	 <p>Kit Contains: 2 LS400BS 1 LS104BS 6 LS403BS 1 LS405LBS 1 LS405RBS 1 LS106BS 1 LS307BS 2 LS407BS</p>	LSGM6BS	 <p>Kit Contains: 2 LS400BS 1 LS104BS 7 LS403BS 1 LS405LBS 1 LS405RBS 1 LS307BS 2 LS407BS</p>	<p>Wall Mount Single Slider Kit</p> <p>Wall Mount Bi-Parting Sliders Kit</p> <p>Glass Mount Single Slider Kit</p> <p>Glass Mount Single Slider with Sidelites Kit</p>
LS104BS	 <p>104" 2642 mm</p> <p>Top Sliding Tube with Two End Caps</p>	LS400BS	 <p>Anti-Lift Top Roller with Flush and Surface Mount Fittings</p>	LS403BS	 <p>Glass Mount Clamp with Flush and Surface Mount Fittings</p>	LS402BS	 <p>Wall Mount Clamp</p>	<p>Wall Mount Single Slider Kit</p> <p>Wall Mount Bi-Parting Sliders Kit</p> <p>Glass Mount Single Slider Kit</p> <p>Glass Mount Single Slider with Sidelites Kit</p>
LS407BS	 <p>Wall/Floor Mount Door Stop</p>	LS307BS	 <p>Bottom Floor Guide</p>	LS405LBS	 <p>Left Hand Door Stop</p>	LS405RBS	 <p>Right Hand Door Stop</p>	<p>Wall Mount Single Slider Kit</p> <p>Wall Mount Bi-Parting Sliders Kit</p> <p>Glass Mount Single Slider Kit</p> <p>Glass Mount Single Slider with Sidelites Kit</p>
LS106BS	 <p>Wall Mount End Cap for Top Sliding Tube</p>							


Optional Items				
LS412BS	FP214BS	CB1PK	LS240BS	LS104CAP
 <p>Ceiling Mount Clamp for Top Sliding Tube</p>	 <p>Thru-Glass Pull</p>	 <p>CRL Silicone Bumpers 5 x 11.1 mm</p>	 <p>240" (6096 mm) Top Sliding Tube</p>	 <p>Replacement End Cap for Top Sliding Tube</p>

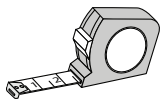
REQUIRED TOOLS



 Allen Wrenches
 2.5 mm, 3 mm, 4 mm

 +
 LSSW1 Spanner Head
 CRL Laguna Series
 Socket Wrench Adapter



 1/4" Drive Ratchet

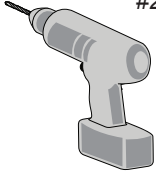

 #2 Pencil


 Tape Measure


 Level


 #1 Phillips Screwdriver


 RTV408C
 Silicone


 Electric Drill


 Blue Loctite
 Threadlocker

INTRODUCTION

Thank you for purchasing the CRL Laguna Series Sliding Glass Door System. We have upgraded our popular Laguna Series Sliding Glass Door System to now include an 'anti-lift' feature. Through a combination of additions and very subtle changes, we have improved the performance, safety, and security while maintaining a clean, simple look. The Laguna Series Sliding Glass Door System can be attached to glass or directly to the side of a sufficiently reinforced wall. The adjustable Top Rollers make final adjustments quick and easy, without the need to remove the door. Their smooth operation and solid stainless steel construction minimizes maintenance issues. CRL provides you with all the glass attachment fasteners for either flush mounting, requiring a countersunk hole, or surface mounting, requiring a straight hole. The glass attachment fasteners accommodate either 3/8" or 1/2" (10 or 12 mm) tempered glass.

Standardized sets allow you to make planning and purchasing quick and easy for basic installations. We offer four different kits; two for wall mounting, and two for glass mounting. Available accessories give you the opportunity to customize the standard sets to accommodate the most imaginative designers.

IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION.

SYSTEM LIMITATIONS

Maximum Width: 53" (1346 mm)

Maximum Height: 98-7/16" (2500 mm)

Maximum Weight: 220 lbs (100 kg)

NOTE: Laminated glass cannot be used in these systems.

PREPARE GLASS

Hole fabrication is required prior to tempering. The placement and type of hole is determined by each configuration. First determine if the system is a glass mount or wall mount and whether it has one or more sliding doors.

The glass fabrication for each of the following basic layouts are detailed in this section:

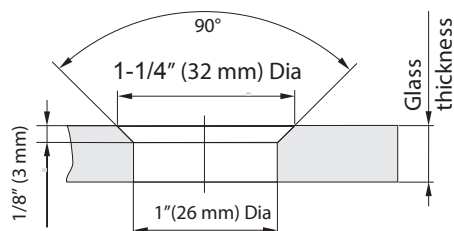
Wall Mount: Single Slider


Wall Mount: Bi-Parting Sliders

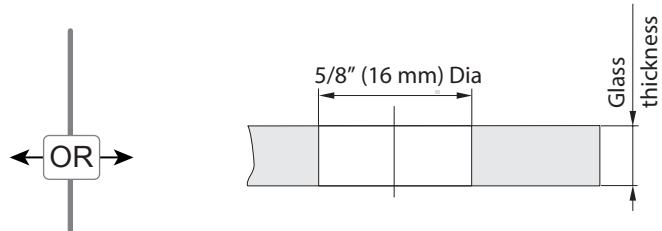
Glass Mount: Single Slider


Glass Mount: Single Slider with Sidelite

All kits include both flush and surface mount fasteners. Identify your specific kit model and refer to the following pages for specific hole locations.



 Countersunk Hole for Flush Mount Fastener

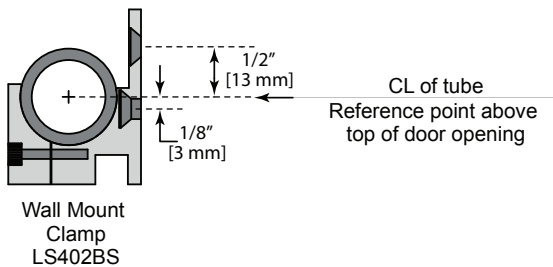
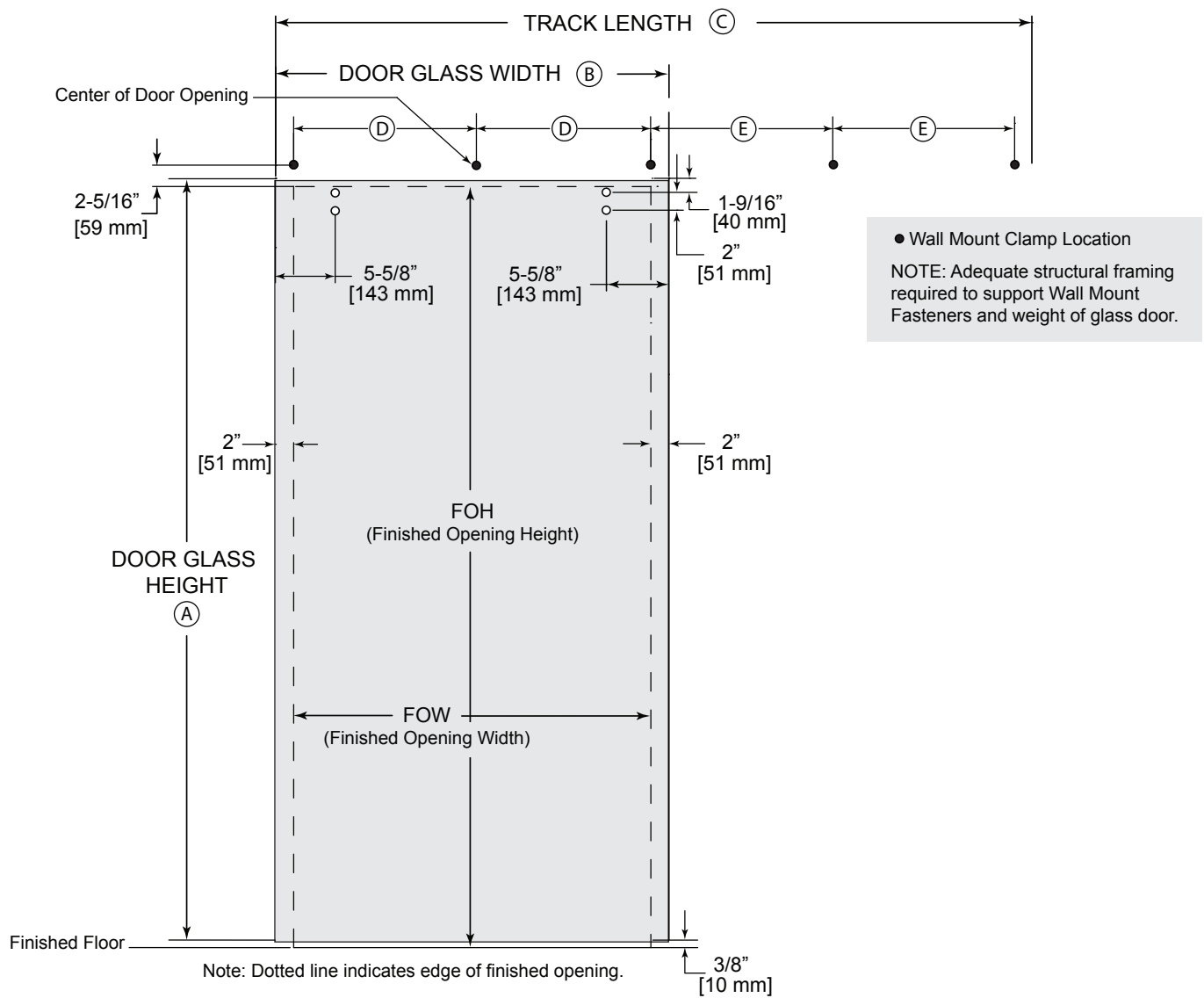


 Straight Hole for Surface Mount Fastener

CRL LAGUNA SERIES SLIDING GLASS DOOR SYSTEM

1. Hole Locations for Wall Mount: Single Slider

LSWM5BS



DOOR GLASS HEIGHT (A) = FOH + 1/2" [12 mm]

DOOR GLASS WIDTH (B) = FOW + 4" [102 mm]

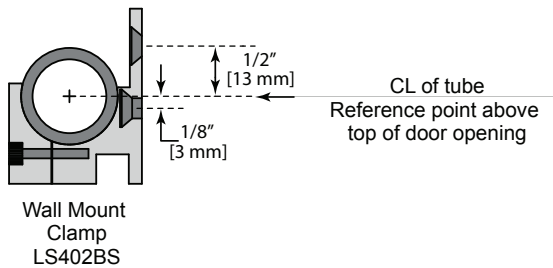
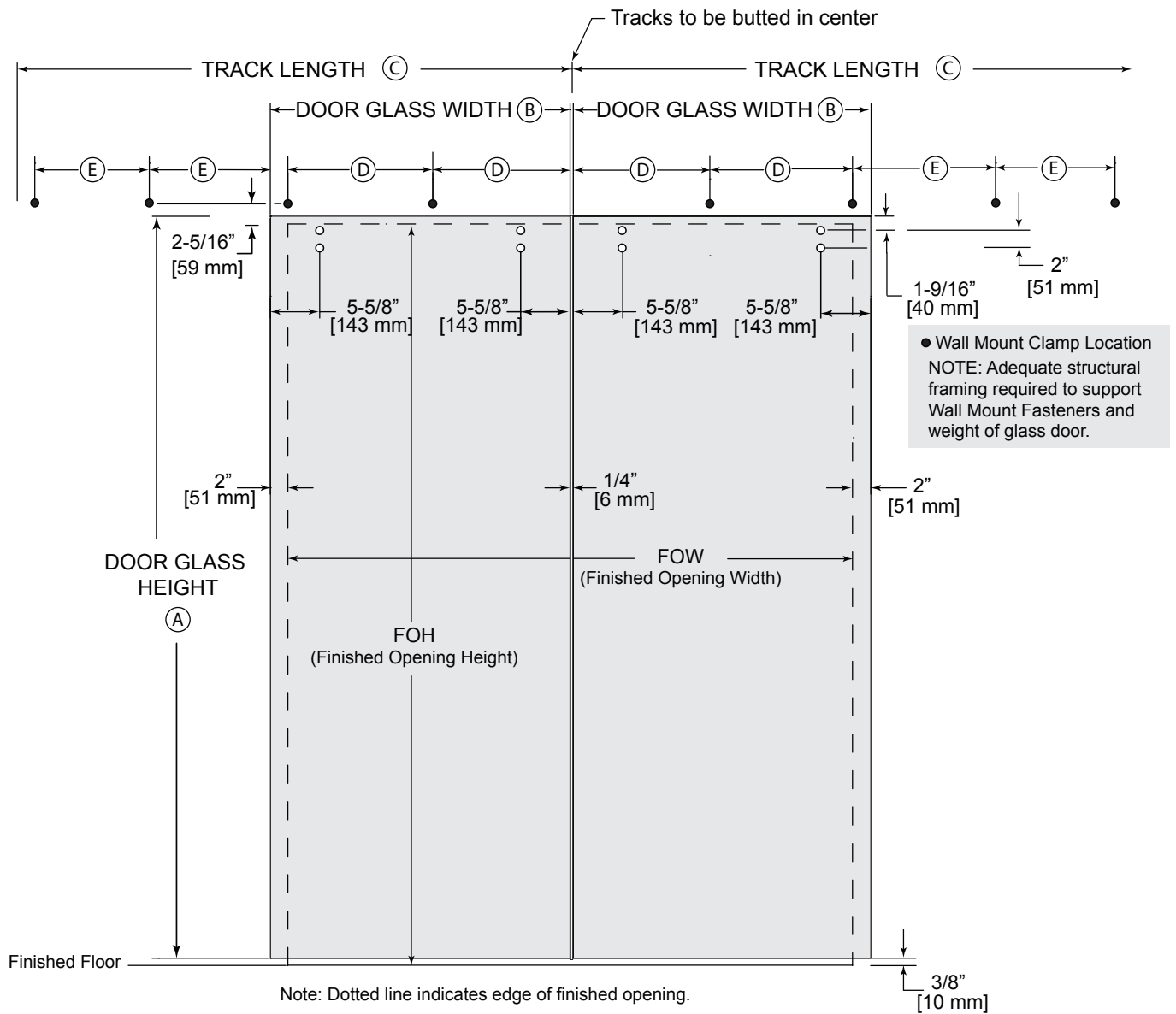
TRACK LENGTH (C) = (FOW x 2) + 6" [152 mm]

(D) = FOW ÷ 2

(E) = ((B) ÷ 2) - 1" [25 mm]

2. Hole Locations for Wall Mount: Bi-Parting Sliders

LSWM6BS



DOOR GLASS HEIGHT (A) = FOH + 1/2" [12 mm]

DOOR GLASS WIDTH (B) = (FOW ÷ 2) + 1 7/8" [48 mm]

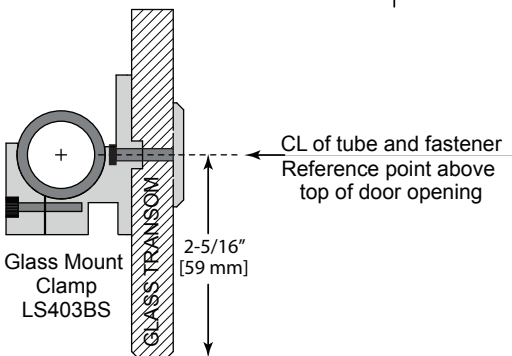
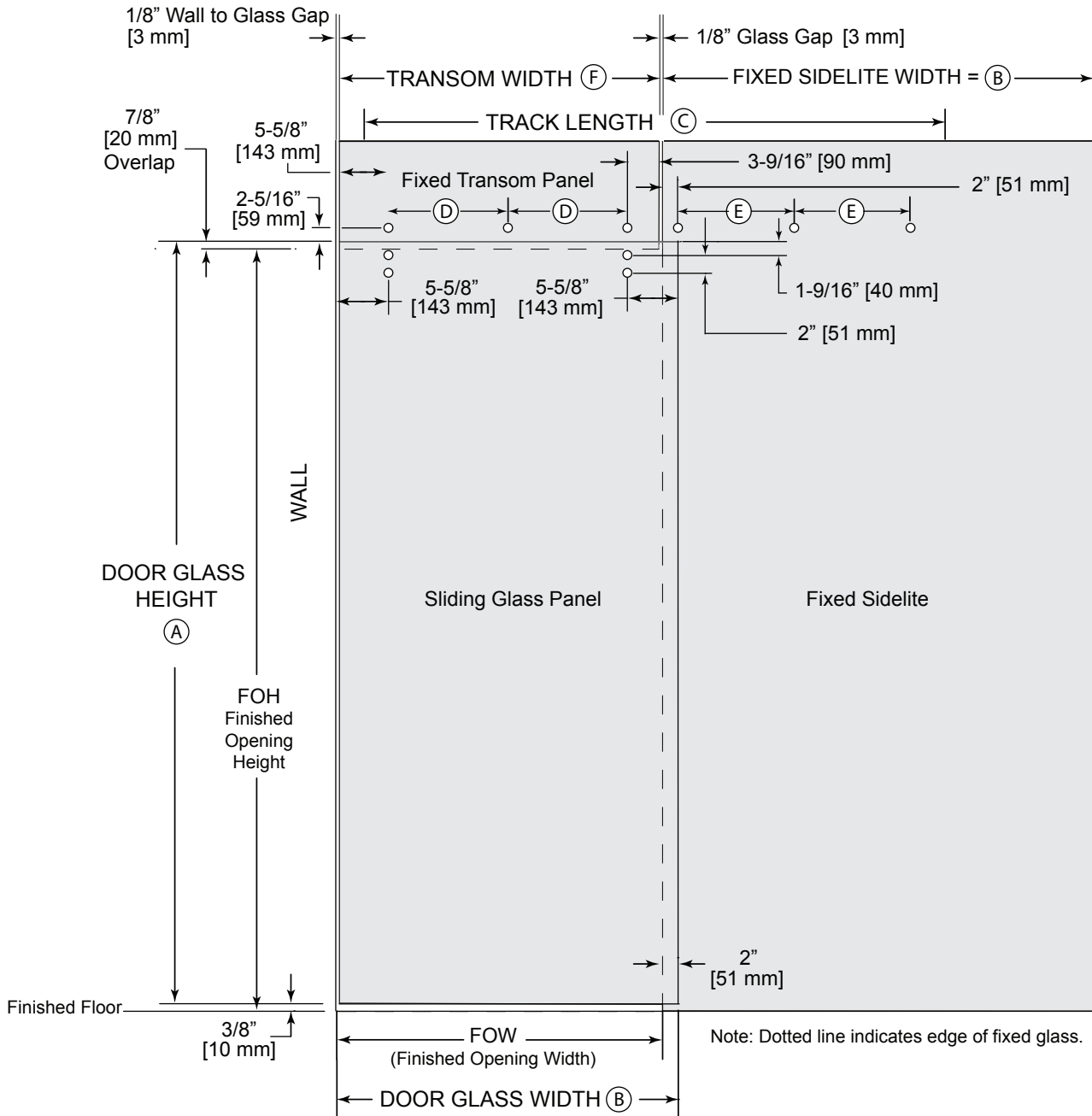
TRACK LENGTH (C) = (FOW x 2) + 2" [51 mm]

(D) = FOW ÷ 4

(E) = FOW ÷ 4

3. Hole Locations for Glass Mount: Single Slider

LSGM5BS



DOOR GLASS HEIGHT (A) = FOH + 1/2" [12 mm]

DOOR GLASS WIDTH (B) = FOW + 2" [51 mm]

TRACK LENGTH (C) = (B) x 2 - 3" [76 mm]

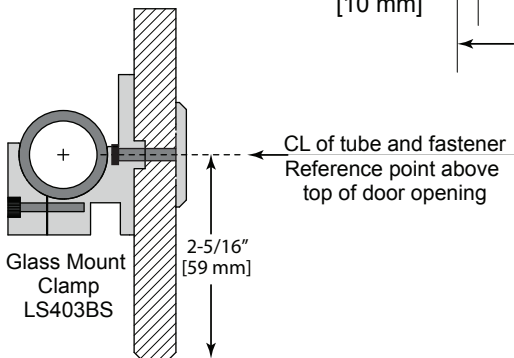
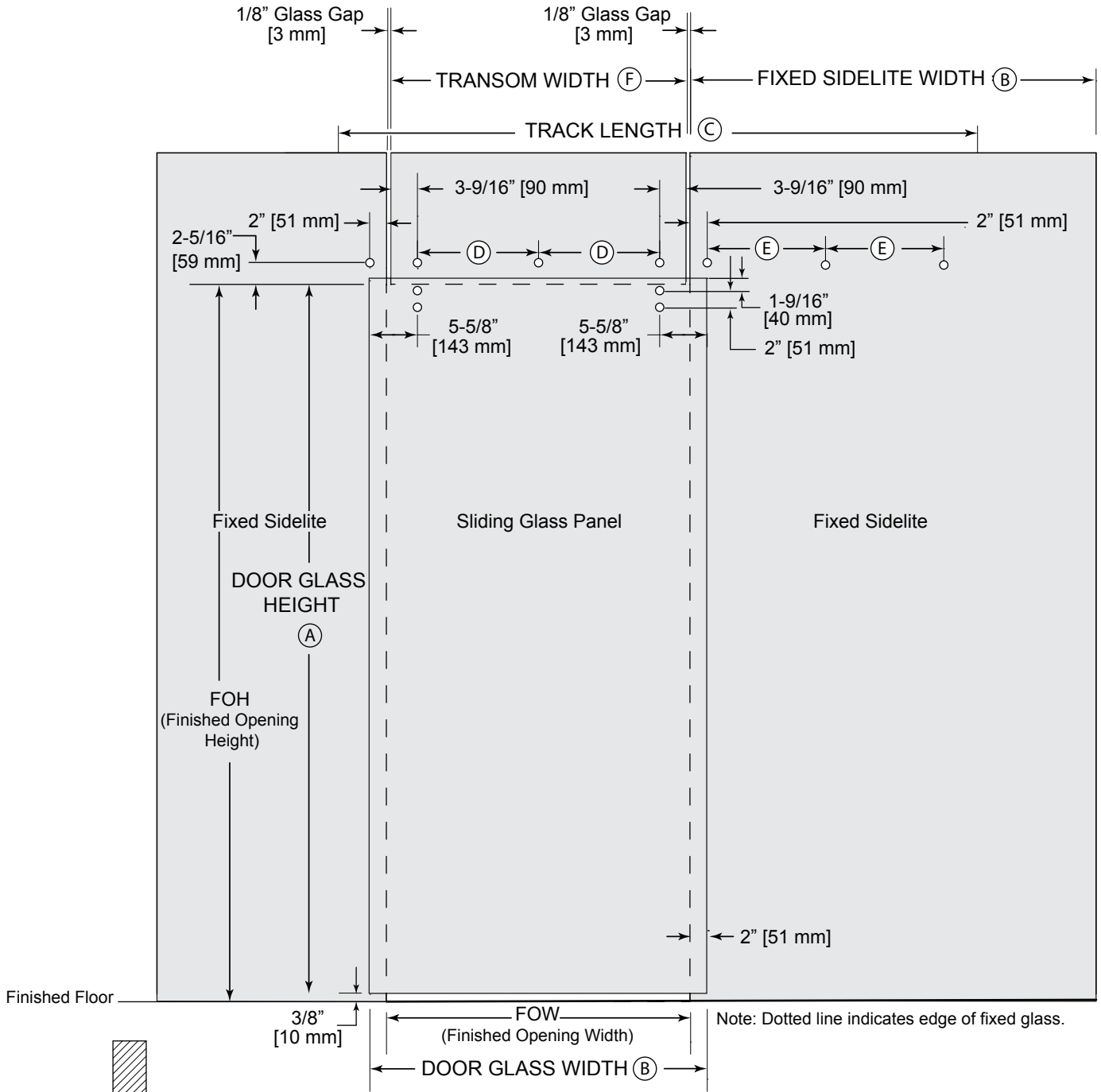
(D) = (F) ÷ 2 - 4 9/16" [116 mm]

(E) = FOW ÷ 2 - 1" [25 mm]

TRANSOM WIDTH (F) = FOW - 1/4" [6 mm]

4. Hole Locations for Glass Mount: Single Slider with Sidelites

LSGM6BS



DOOR GLASS HEIGHT (A) = FOH + 1/2" [12 mm]

DOOR GLASS WIDTH (B) = FOW + 4" [102 mm]

TRACK LENGTH (C) = (B) x 2

(D) = ((F) ÷ 2) - 3 9/16" [90 mm]

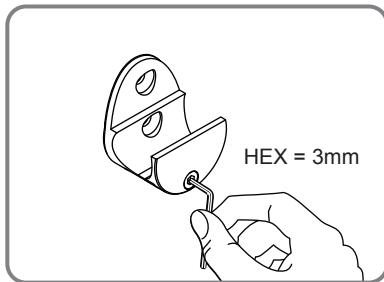
(E) = FOW ÷ 2

TRANSOM WIDTH (F) = FOW - 1/4" [6 mm]

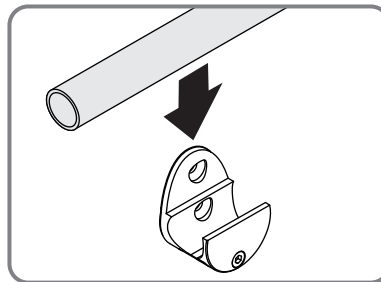
INSTALL HARDWARE: WALL MOUNT

1. Attach Wall Mount Clamps to Sliding Tube

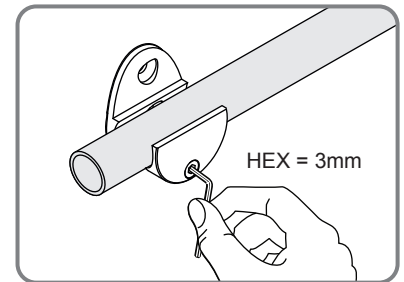
Cut Sliding Tube to length. Prepare on a flat surface to keep Wall Mount Clamps aligned. Place Clamps in correct position. Refer to hole location details for correct Clamp spacing. Hand tighten to hold Sliding Tube.



Loosen to separate.

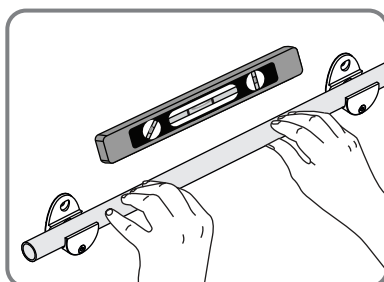


Fit Sliding Tube into Wall Clamps.

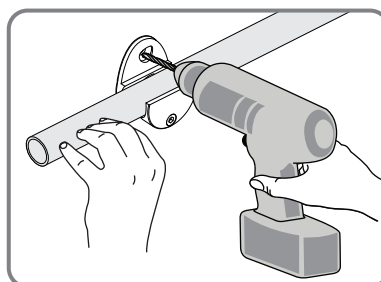


Hand tighten.

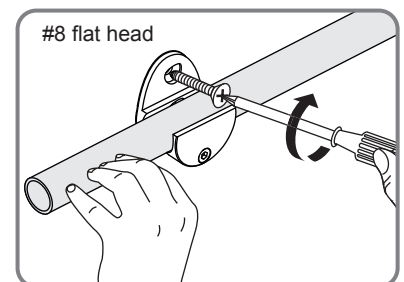
2. Position Level to Wall



Ensure Sliding Tube is level.

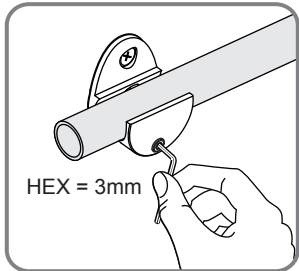


Drill pilot hole for fasteners to be used. (not included)

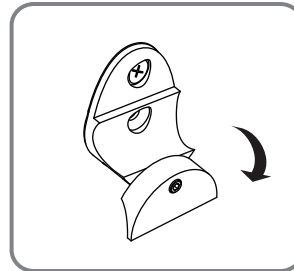
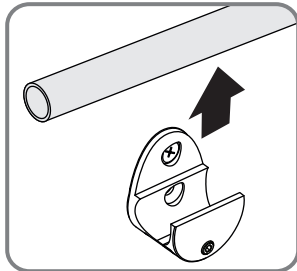


Secure with screw properly anchored to the substrate. (not included)

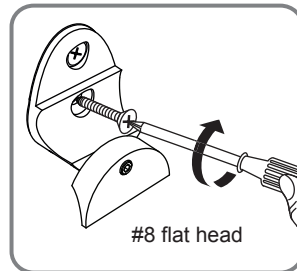
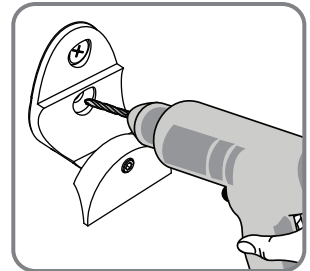
3. Mount the Wall Mount Clamps



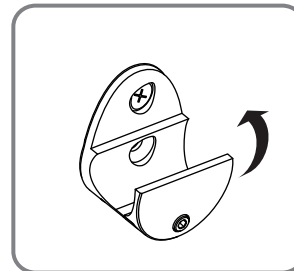
Loosen Wall Clamp and remove Sliding Tube.



Move bottom part of Clamp down to drill pilot hole.

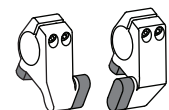
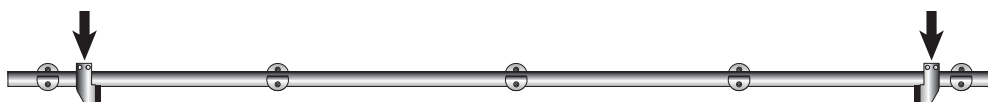


Secure to substrate with adequate fastener (not included).

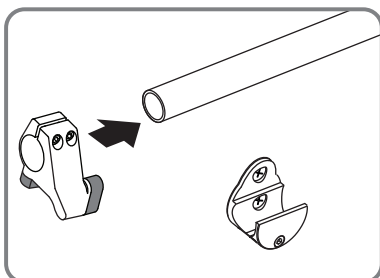


Return bottom part of Clamp to upright position.

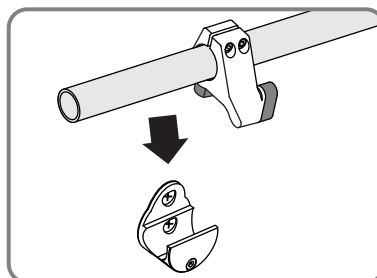
4. Install Left and Right Door Stops



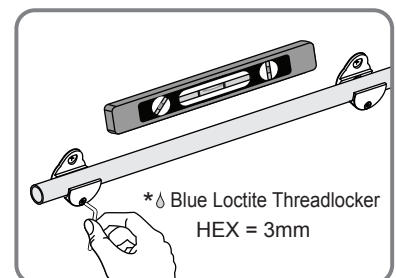
Left and Right Door Stops



Slide left and right Door Stops onto Sliding Tube.



Ensure each Stop clears outboard Clamp when replacing Tube.



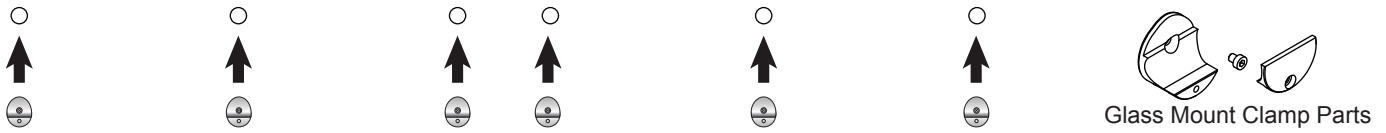
When Tube is level, tighten the Wall Clamps.

* Blue Loctite Threadlocker is recommended on all screw threads during final assembly.

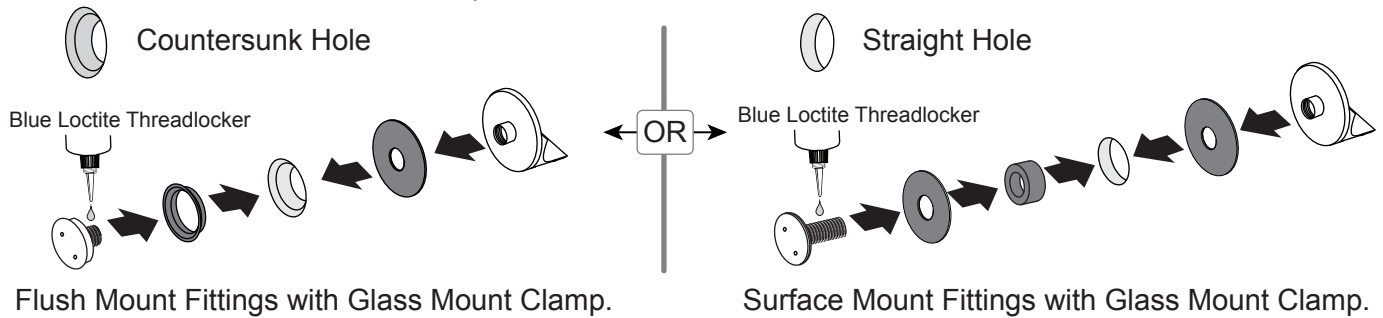
INSTALL HARDWARE: GLASS MOUNT

1. Attach Glass Mount Clamps

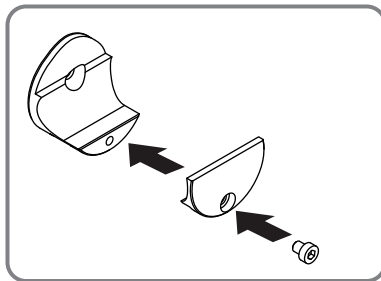
Use either Surface or Flush Mount.



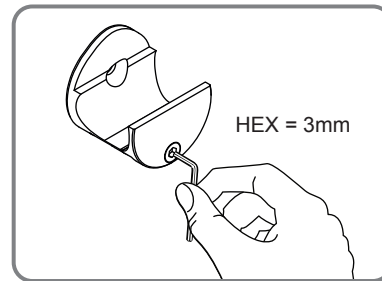
Tighten to 11 ft-lbs, 15Nm



2. Assemble Glass Mount Clamps

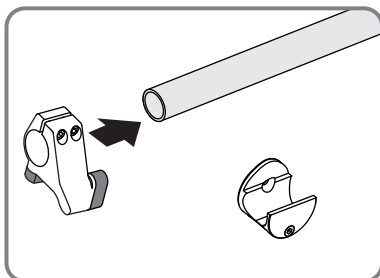
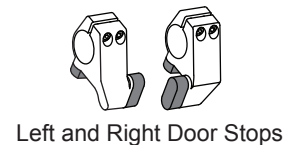
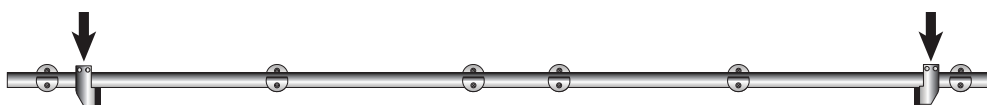


Loosely assemble

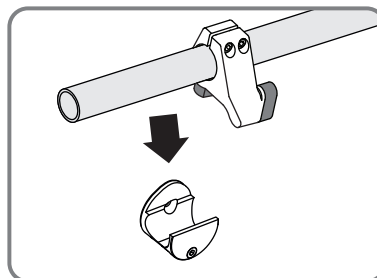


Hand tighten

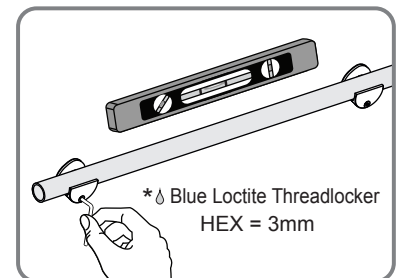
3. Install Left and Right Door Stops



Slide left and right Door Stops onto Sliding Tube.



Ensure each Stop clears outboard Clamp when replacing Tube.

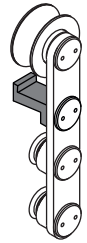


When Tube is level, tighten the Glass Clamps.

* Δ Blue Loctite Threadlocker is recommended on all screw threads during final assembly.

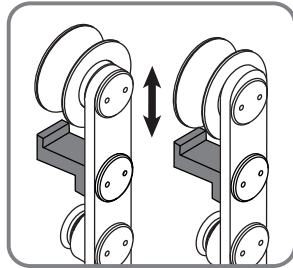
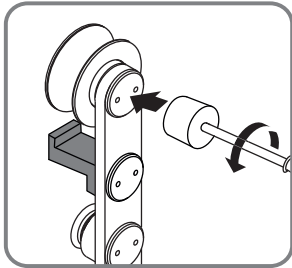
PREPARE AND HANG DOOR

1. Prepare Top Rollers

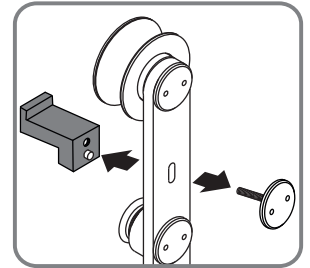
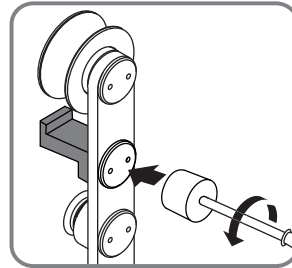


Top Roller

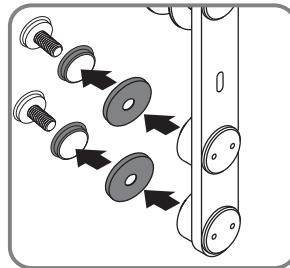
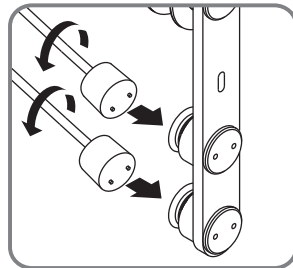
Use spanner head tool to remove Anti-Lift and Door Mount Fittings and loosen Top Roller.



Loosen Top Roller so it easily moves up and down.



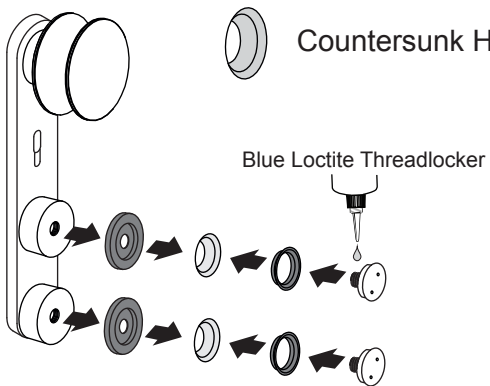
Remove Anti-lift Block and store in a safe place.



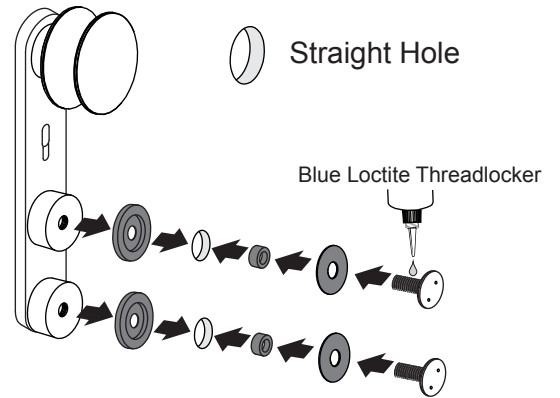
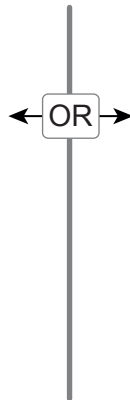
Remove Mounting Fittings and store in a safe place.

2. Mount Top Rollers Onto Door

⤵ Tighten to 11 ft-lbs, 15Nm



Flush Mount Fittings with Top Roller

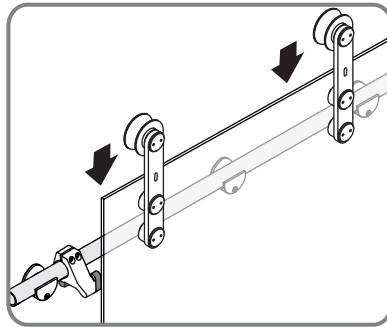
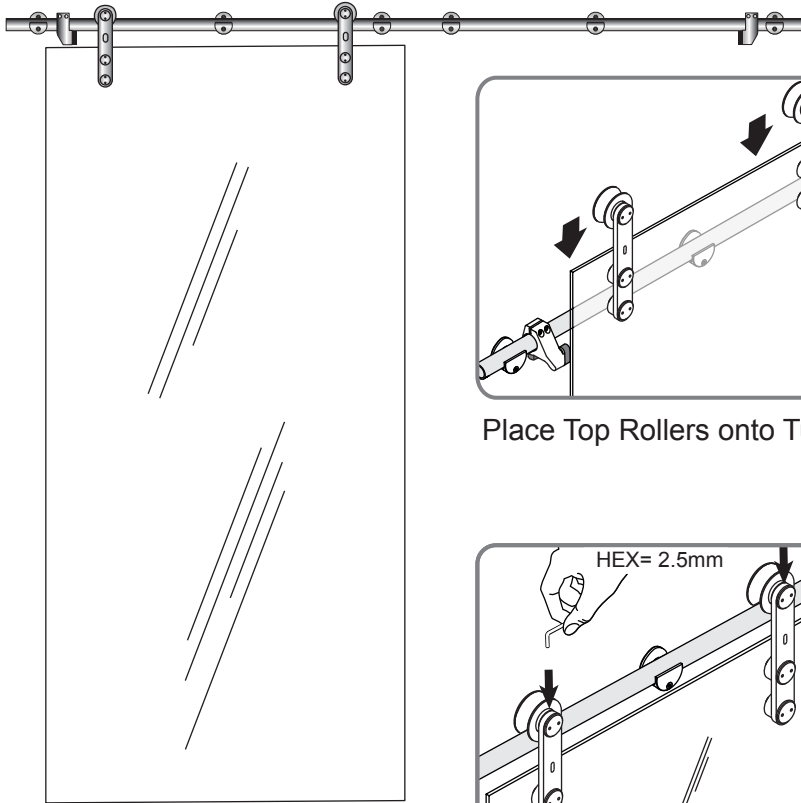


Surface Mount Fittings with Top Roller

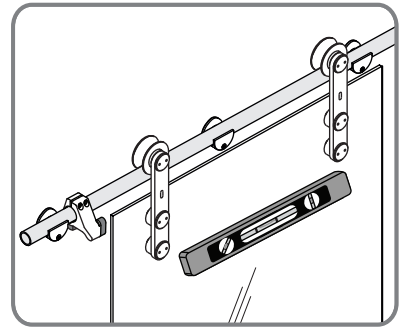
NOTE: Mounting posts have minimal adjustment to help with incorrectly located holes in glass.

3. Hang Door

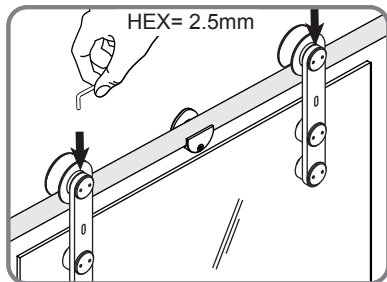
Place Top Rollers onto Sliding Tube. Support weight of door at level and tighten Set Screw at top of Roller.



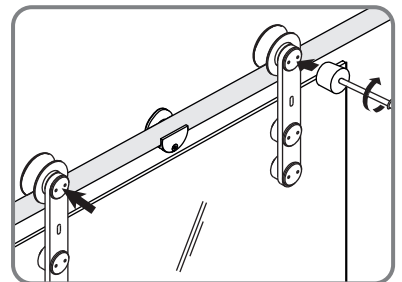
Place Top Rollers onto Tube.



Ensure door is level and plumb.

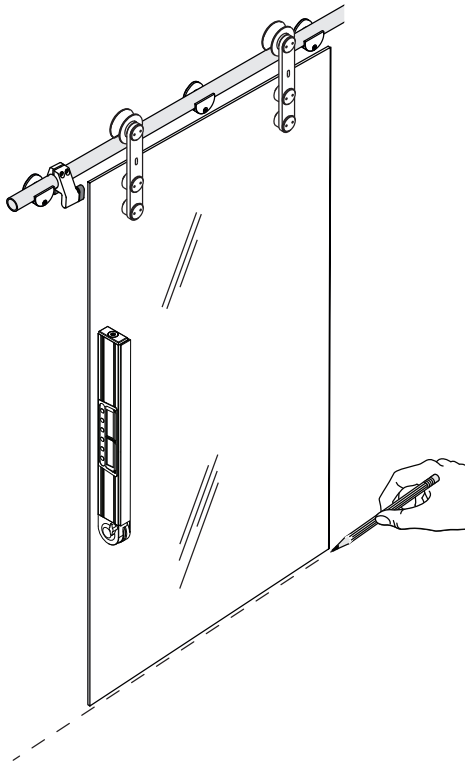


Support door weight and use Set Screw in Top Roller to adjust height.

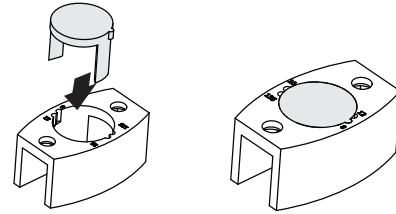


Tighten Top Roller with Spanner Head Tool.

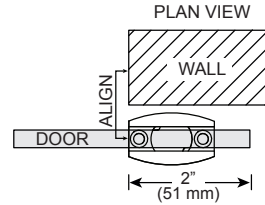
4. Install Floor Guide



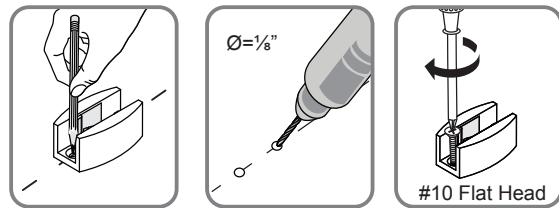
Plumb door to vertical. Mark centerline.



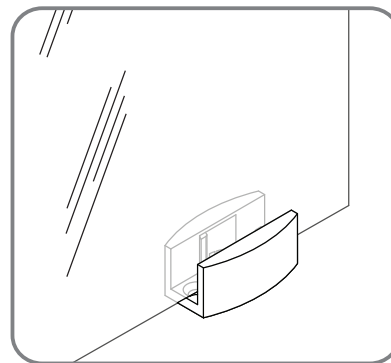
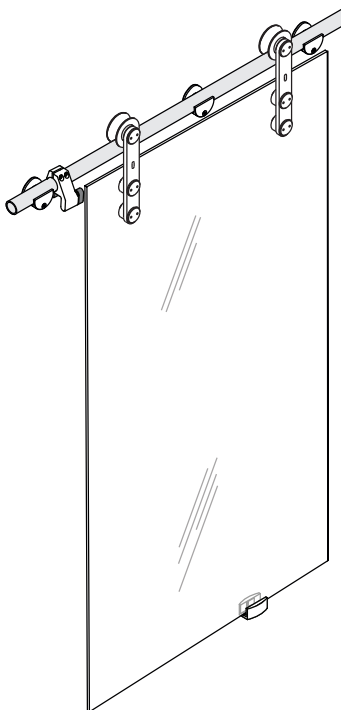
Adjust to fit $\frac{3}{8}$ " (10 mm) or $\frac{1}{2}$ " (12 mm) glass doors.



Remove door. Position Floor Guide so it is aligned to wall. The door overlaps 2" (51 mm).

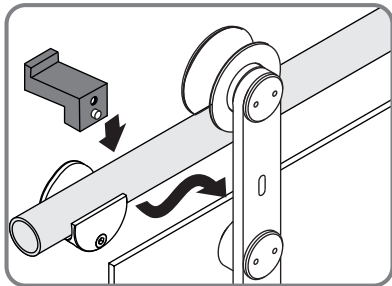
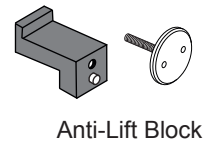
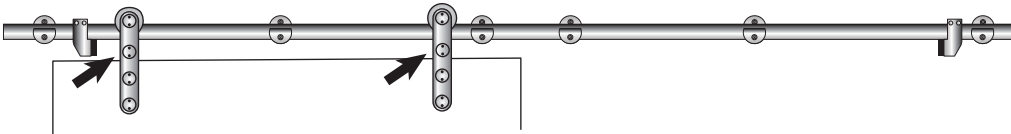


Mark, drill and install.

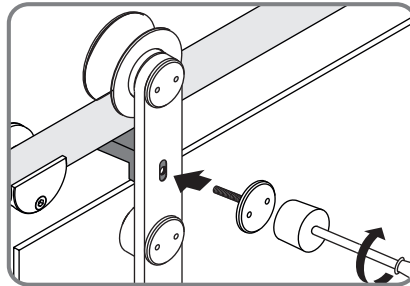


Hang door again making sure it is engaged with the floor guide.

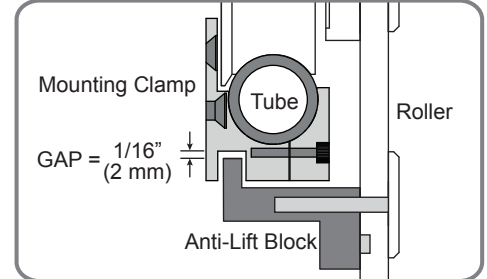
5. Install Anti-Lift Block



Fit Anti-Lift Block under Sliding Tube.



Tighten with Spanner Head Tool.



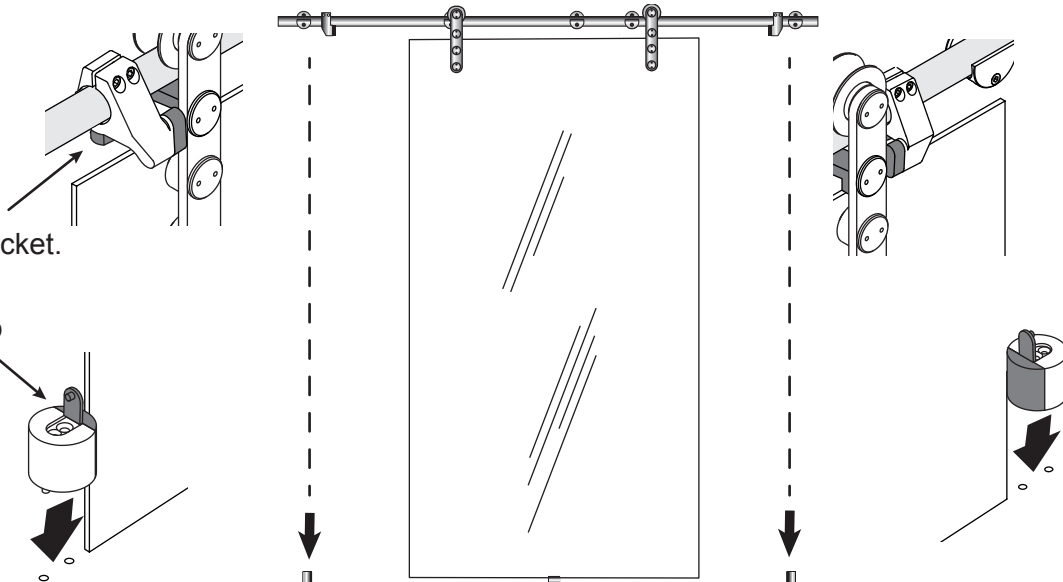
Adjust Anti-Lift Block so Roller moves freely through Mounting Clamps.

6. Install Floor Mount Door Stops

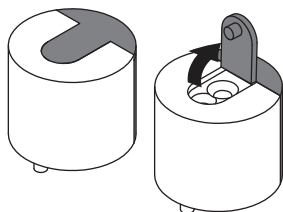
Position door in open and closed locations and then adjust Track Stop.

Slide Track Stop until it contacts Bracket.

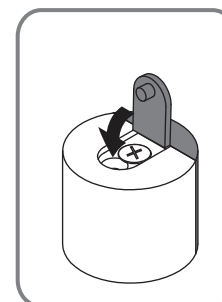
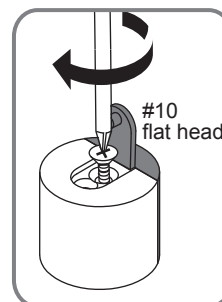
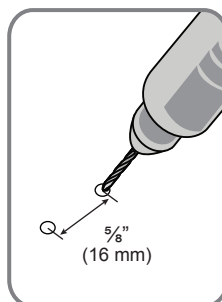
Position Floor Stop so glass contacts it at same time.



Install Floor Mount Door Stops below Left and Right Door Stops. Rubber side faces door.



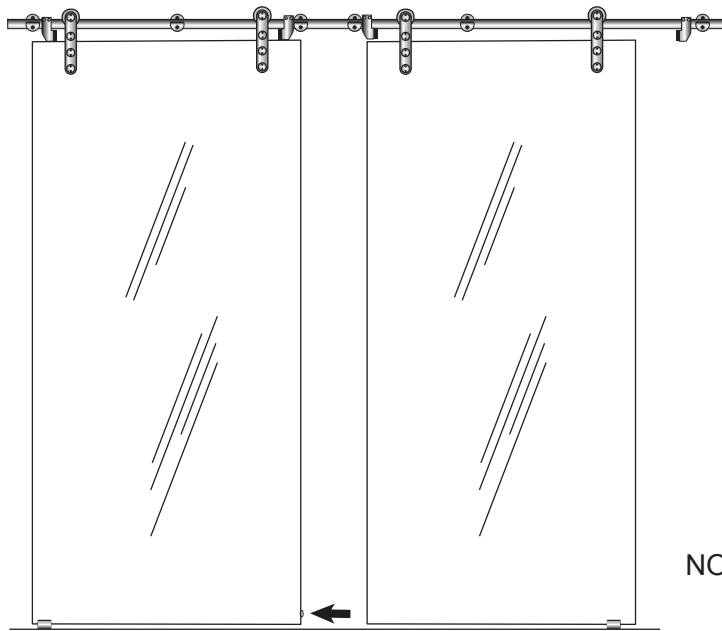
Lift Rubber Cover to install.



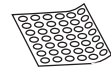
Drill holes. Install using proper fastener for substrate. Close Rubber Cover.

NOTE: The Floor Mount Door Stops may also be mounted to the wall.

7. Place Glass Edge Protectors



Position one inch from bottom of door.



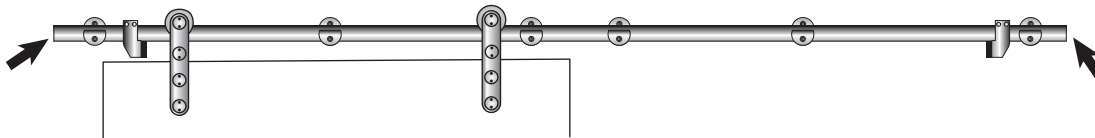
CB1PK Clear Silicone Bumpers



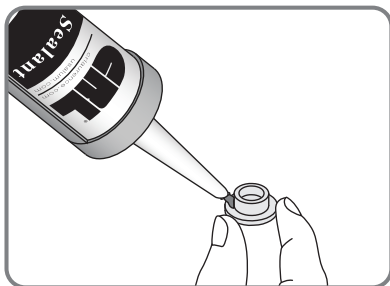
Remove from backing and place on door edge.

NOTE: For use with double doors.

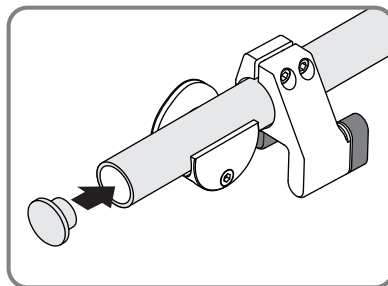
8. Install Sliding Tube End Caps



Sliding Tube End Cap



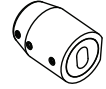
Use a dab of RTV408C silicone to hold cap in place.



Insert into each end of Sliding Tube.

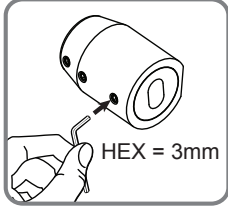
INSTALL ACCESSORIES

1. Install Wall Mount End Cap (For LSGM5BS Only)



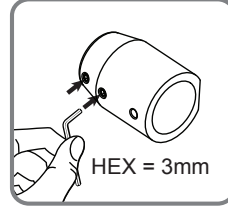
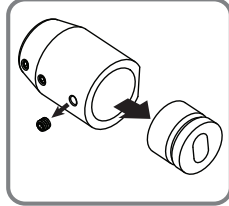
Wall Mount End Cap

Use when top Sliding Tube terminates into a wall. Use instead of last Mounting Clamp. Mount to wall.



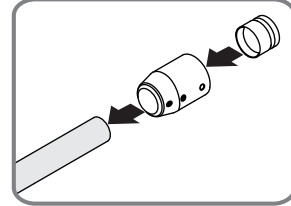
HEX = 3mm

Loosen Set Screw to remove Wall Mount.

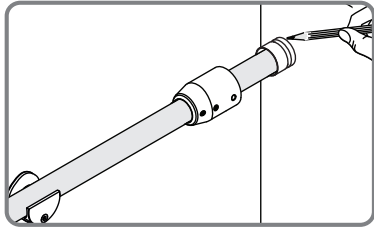


HEX = 3mm

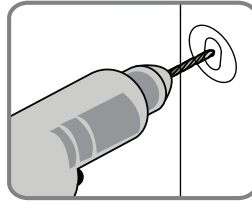
Loosen Set Screws.



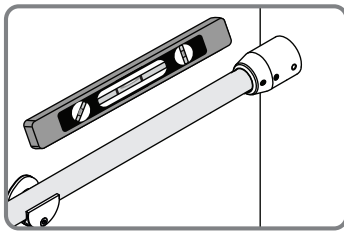
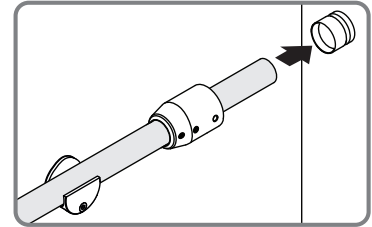
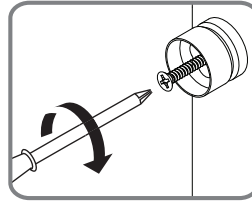
Slide onto Tube.



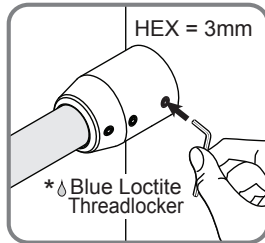
Rest Tube on Glass Clamps to mark position.



Install Wall Mount. Rest Tube on Glass Clamps and fit into Mount.

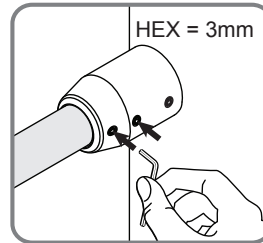


Ensure Sliding Tube is level. Tighten Set Screws in Wall Mount and Glass Clamps.

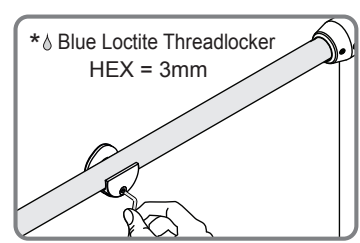


HEX = 3mm

* Blue Loctite Threadlocker



HEX = 3mm

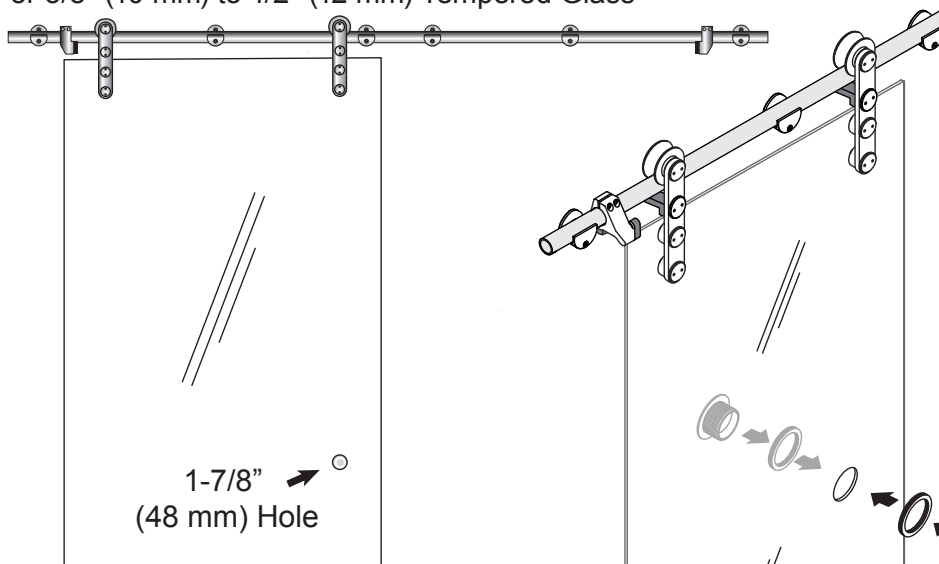


* Blue Loctite Threadlocker
HEX = 3mm

* Blue Loctite Threadlocker is recommended on all screw threads during final assembly.

2. Install Thru-Glass Pull FP214BS (Optional)

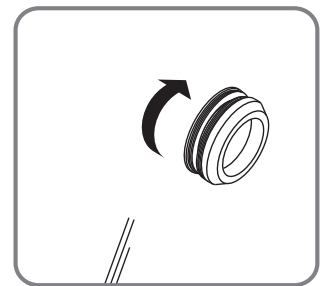
For 3/8" (10 mm) to 1/2" (12 mm) Tempered Glass



1-7/8"
(48 mm) Hole



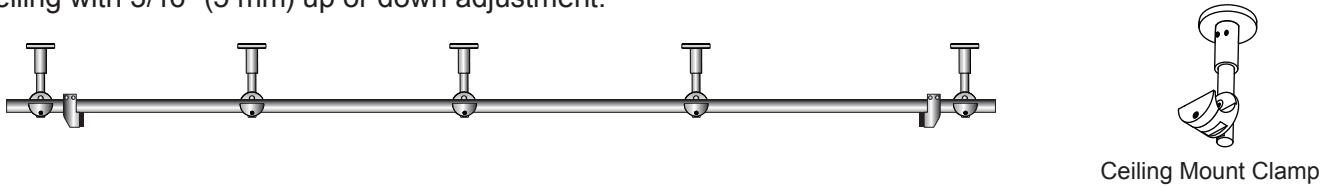
Thru-Glass Pull
FP214BS



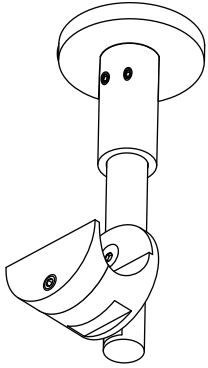
Thread together.

3. Install Ceiling Mount Clamp LS412BS (Optional)

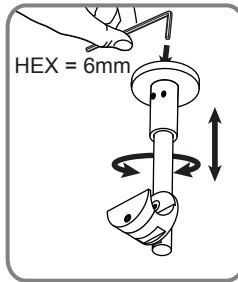
Use to replace wall mount clamps. Attaches to structural ceiling sufficient to support the load of the sliding glass doors up to 220 lbs (100 kg). Position the centerline of the Sliding Tube 4-7/16" (113 mm) down from ceiling with 3/16" (5 mm) up or down adjustment.



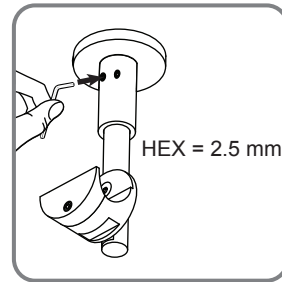
Ceiling Mount Clamp



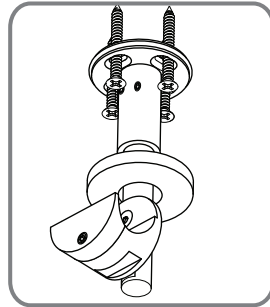
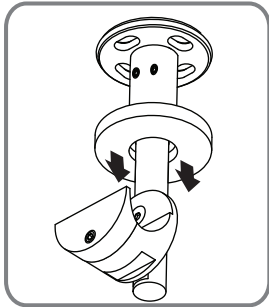
Loosen set screws.



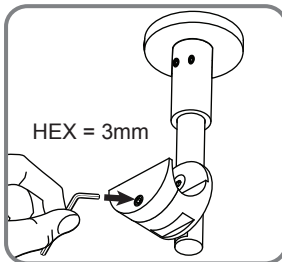
Turn base to raise or lower.



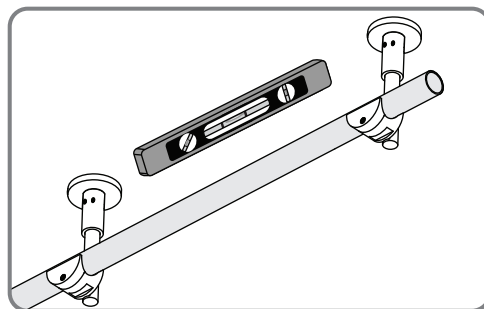
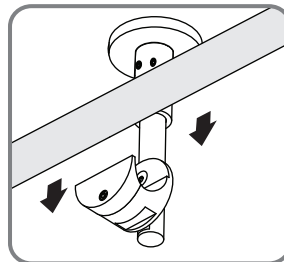
Tighten set screws.



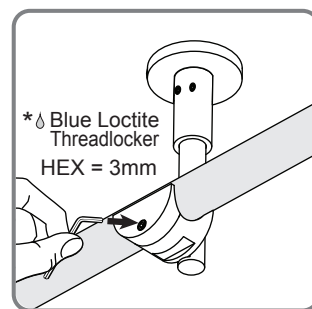
Slide trim plate down. Secure to ceiling with screws properly anchored to the substrate.



Loosen clamp to install sliding tube.



Ensure Sliding Tube is level.



Tighten Clamp again.

* Blue Loctite Threadlocker is recommended on all screw threads during final assembly.

MAINTENANCE

Inspect roller assemblies at routine intervals for smooth operation. Remove debris that might accumulate on the upper track surface. Assure that each roller assembly is straight and tight. Also check all spanner nuts and tighten if necessary. **Do not overtighten.** Glass fracturing could occur. Replace any glass panel that shows fracturing or chipping on edges or around drilled holes. Worn or broken components should be replaced immediately by qualified personnel.

Do not lubricate the track or rollers. Lubricants will attract dirt, creating a dirty roller surface and interfering with the system's smooth operation. See below for cleaning procedures.

CARE AND CLEANING OF STAINLESS STEEL

Satin polished Stainless Steel is one of the most durable and easiest finishes to maintain. Although stainless steel is generally resistant to corrosion, the surface is susceptible to cosmetic deterioration by the effects of salt water and air-borne chemicals which may result in small brown spots appearing on its surface (this process is likely to be accelerated in coastal areas). These spots in no way affect the strength, integrity or longevity of the product, they are simply superficial discolorations that require cleaning to restore the stainless steel to its original appearance.

Stainless steel finishes should be cleaned with rubbing motions in the same direction as the grain texture with a foam spray cleaner, such as **CRL Cat. No. CRL841** Stainless Steel Polish & Cleaner, which cleans, polishes and protects stainless steel without hard rubbing and polishing. A coating of CRL841 resists finger prints, grease and water splatter and helps preserve the factory finish.

Wipe with a clean, dry cloth such as **CRL Cat. No. 1550** Lint-Free Glass Wipes, which are made with four plies of strong, white paper and reinforced in both directions with an extra ply of tough nylon. These highly absorbent rugged wipes will stand up to the most demanding shop work.

For repair of damaged finishes, satin stainless steel can be rubbed with one of the following abrasive pads:

CRL Cat. No. SB7447F - CRL 3M™ Scotch-Brite™ Fine Pad

Stainless steel finishes should be rubbed in the same direction as the grain texture.

For **LONG TERM PROTECTION** and use on **REPAIRED AREAS**, CRL offers an unsurpassed surface treatment system specifically designed to protect both glass and stainless steel.

CRL 6K Hydrophobic Surface Protection product is a two-step system.

Step One: **CRL Cat. No. PC6025** - 6K Pre-Clean Solution (250 ml bottle)

Step Two: **CRL Cat. No. 6K6025** - 6K Protectant Formula (250 ml bottle)

Proper application of the 6K system will offer surface protection for three years.

Visit crlaurence.com for more details.



JOB SITE ESSENTIALS

Helpful Tools and Supplies for Installing the CRL Laguna Series Glass Door System



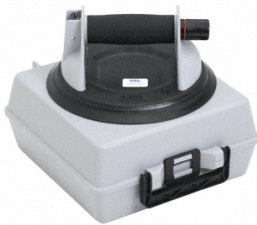
CRL Glass Cleaner
CAT. NO. 1973



CRL Glass Wipes
CAT. NO. 1550



CRL Gloves
CAT. NO. KF1TL



CRL Vacuum Cups
CAT. NO. S338



CRL Glass Marking Pencil
CAT. NO. GM44



CRL Tape Measure
CAT. NO. 54225



CRL Stainless Steel Polish and Cleaner
CAT. NO. CRL841



CRL Stainless Steel Sentry Protection Spray
CAT. NO. CRL845



CRL 3M® Scotch-Brite™ Fine Pad
CAT. NO. SB7447F



CRL 6K Hydrophobic Surface Protection System for Glass and Stainless Steel - Pre-Clean Solution
CAT. NO. PC6025



CRL 6K Hydrophobic Surface Protection System for Glass and Stainless Steel - Protect Formula
CAT. NO. 6K6025



CRL 1.69 Fl. Oz. (50 ml) Bottle Loctite® Threadlocker
CAT. NO. 24231