

PURE™ SONOS For MUTO XL150

Ceiling mount with two Sidelites and optional Dormotion

Installation Manual

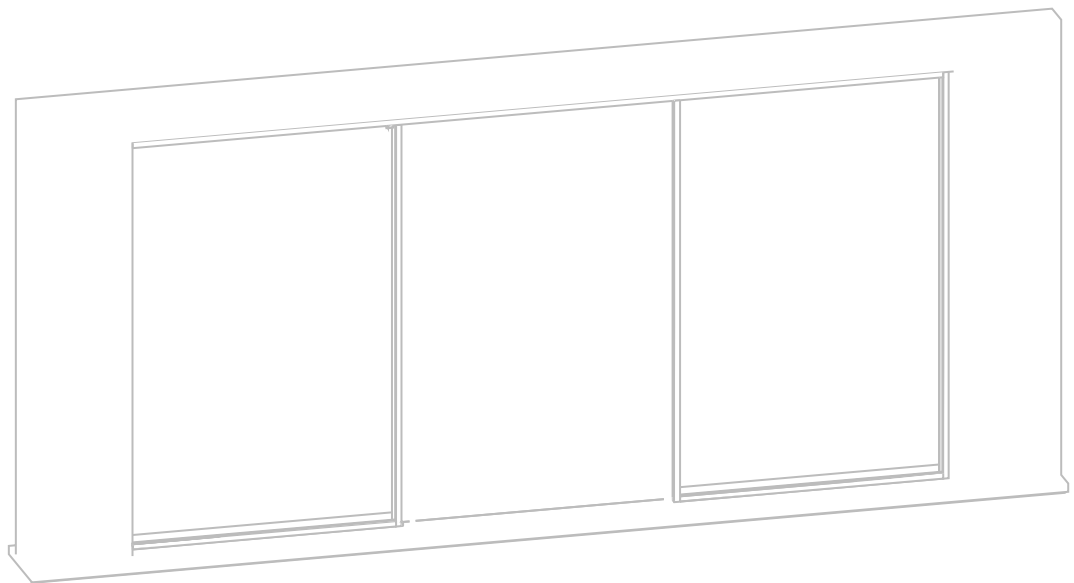


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1 Technical specifications

1.1 Overview

These instructions are for installation of PURE™ SONOS sliding door system with a MUTO XL150 and two Sidelites (glass door) for the following mounting and style versions.

NOTE: For PURE™ SONOS sliding door systems with Lock, refer to Mag Lock Installation Manual 936068.

1. Ceiling mount

1.1.1 General information

- dormakaba requires use of tempered monolithic or tempered laminated glass.
- dormakaba glass hardware is not suitable for application in rooms where chemicals (e.g. chlorine) are used as indoor swimming pools, saunas or salt-water pools.
- Never move sliding panels faster than walking speed and always stop the door manually before it reaches end position.
- Do not slide doors with excessive force. Install limiting stop to prevent door from opening too far.

1.1.2 Intended use

- For sliding door in dry indoor areas only
- For manual slowly opening and closing only

1.1.3 Glass requirements and fittings

- The substructure/wall must be able to bear permanent loads and be level (max. tolerance: 1/16" [2] per 39" [1m]).
- Fasteners must be sufficiently dimensioned for the substructure/wall and weight of the door.
- When adjusting glass components, always stick to the required clearance for the respective hardware. Adjust clearance so glass does not come in contact with any hard surfaces such as glass, metal or concrete.
- Do not use excessive force when installing the glass (avoid over tightening screws).

1.1.4 Requirements for glass panel

- dormakaba requires use of fully tempered glass, which complies with ASTM C 1036 and ASTM C 1048. Secondary heat soaking processes are recommended but not required. This applies to both tempered monolithic and tempered laminated glass.
- Clamping area must be flat and uncoated (no self-cleaning coating!)
- Never use glass with conchoidal fractures and/or damaged edges.

1.1.5 Requirements for wood door panel, reference:

- Para. 2.24 Wood door – Technical specifications overview
- Para. 2.25 Wood door – Technical specifications technical data.

1.1.6 Safety instructions

- Installation requires two people.
- Only properly qualified and specially trained staff are authorized to mount dormakaba glass hardware.
- Due to crushing hazards and possible injury caused by breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) is required.
- Never clamp metal fitting hardware directly to glass surface.

1.1.7 Symbols used - Safety/Installation



CAUTION

Mounting components must meet the requirements of substructure/wall and door weight. Please read the technical information for fittings.



WARNING

Risk of breaking glass. When installing the door, support the door panel with a block of wood or similar object.



CLOSING EDGE

1.1.8 Maintenance, care, repair

- Immediately replace damaged parts.
- Always use original dormakaba parts.
- Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.
- Use a damp cloth for occasional cleaning, especially the track.
- Always use silicone - and oil-free cleaners (e.g. acetone).
- Check glass hardware at regular intervals for proper positioning and smooth operation and correct adjustment.
- High traffic door systems require inspection by properly qualified staff (specialized companies or installation firms.)

1.1.9 Disposal

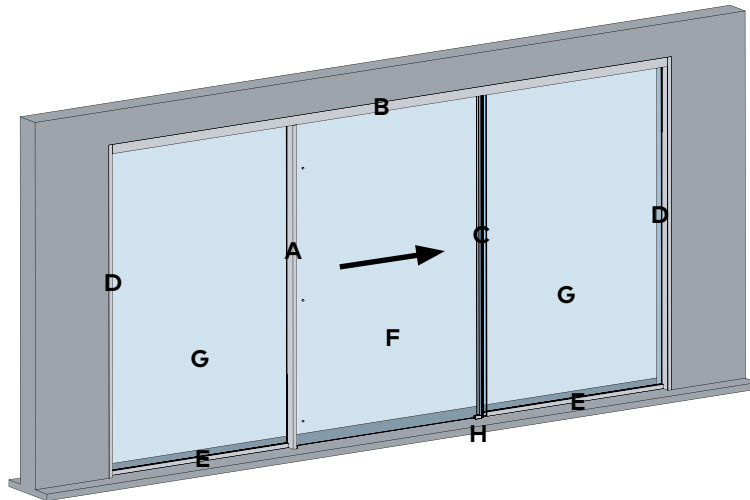
Disposal in accordance with local, state and national regulations.

1.2 Specifications - technical data

Table 1

		Single Door
		XL150
Ceiling mount	Door leaf weight lbs [kg] *	≤330lbs [≤150]
	Glass thickness inches [mm]	1/2" [13]

* Including weight of auxiliary hardware.



- A. Jamb channel/glazing pocket
- B. MUTO track/header with sidelite extrusion
- C. Middle glazing channel
- D. Sidelite channel/glazing pocket
- E. U-channel
- F. Sliding door panel
- G. Sidelite glass panel
- H. Floor guide

1.3 Tempered laminate glass (TLG) and adhesive specifications

Table 2

Required parts for laminate glass with PURE® SONOS (not included)	Part Number	Quantity	Usage recommendation
3M™ Scotch-Weld™ Urethane Adhesive, DP 605 NS	934.800	1 tube	1 tube per 4 roller carriers
3M™ Scotch-Weld™ EPX™ Plus II Applicator with 1:1 Plunger ²	934.801	1 applicator	1:1 plunger with 934.800 adhesive
3M™ Scotch-Weld™ EPX™ Plus II Mixing Square Nozzle, 5.3mm ³	934.805	Pk of 4	4 nozzles per 1 tube of adhesive
TLG gasket set	807.640	1 set	
Handling time frame	Function	Time	
	Working life (<i>time between application and clamping of carrier</i>)	5 minutes @ 75°F	
	Handling strength	20 minutes @ 73°F or more	
	Full cure time (<i>normal door usage not recommended until full cure time as been met</i>)	48 hours @ 73°F or more	

NOTE: Door glass should not be installed until the full cure time as been reached (see chart above).

Important safety-related information for the mounting and use of dormakaba glass hardware.

1.3.1 Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.

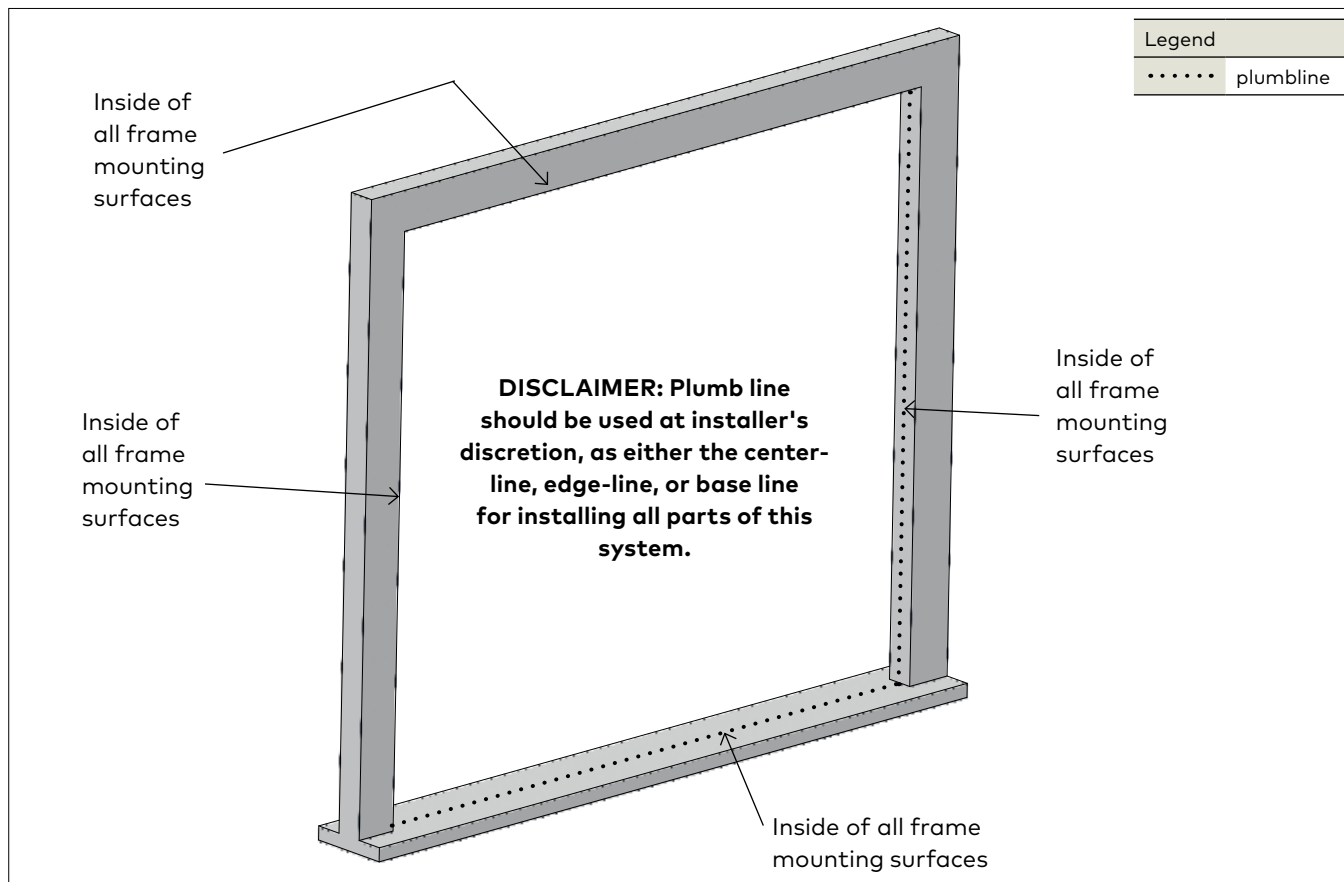
1.3.2 Never clamp metal glass fitting hardware directly to glass surface.

1.3.3 Never use clamping product on surfaces with self-cleaning coatings.

2 Installation instructions

2.1 Door frame alignment

Fig. 1

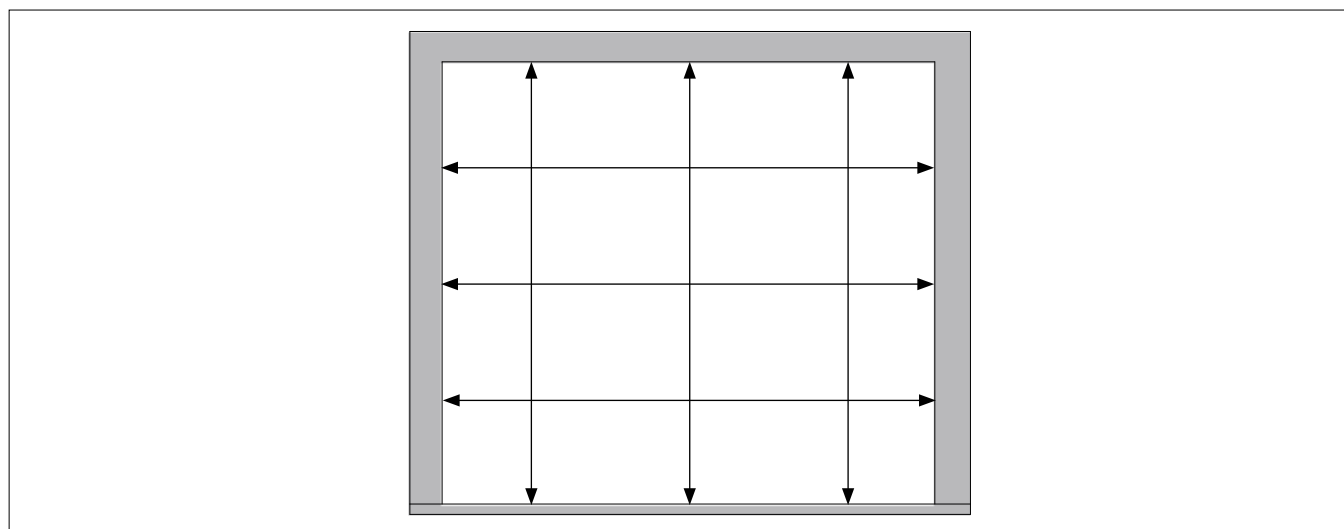


2.1.1 Mark a plumb line around the entire inside perimeter of the frame.

NOTE: Ensure walls, floor and ceiling mounting surfaces are plumb and level.

2.2 Daylight opening

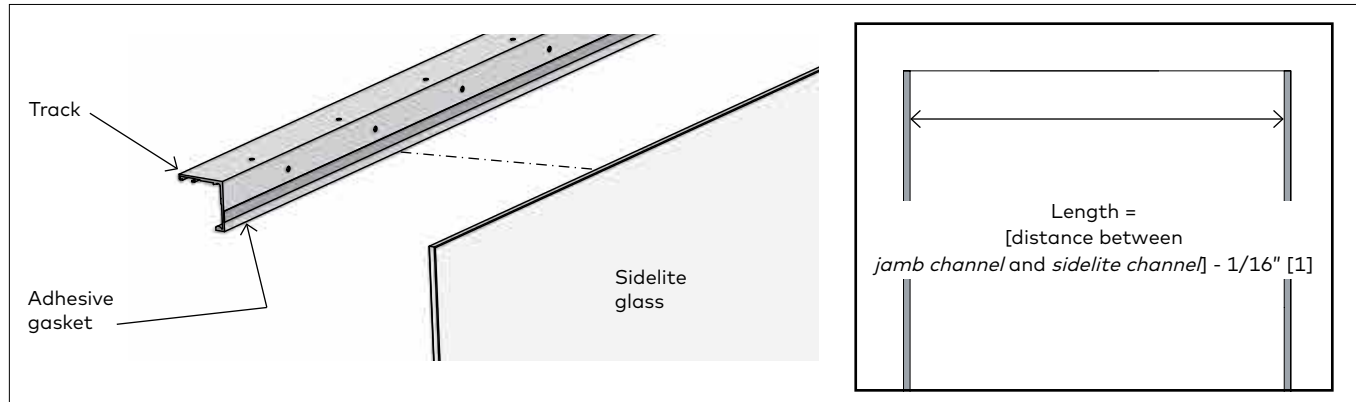
Fig. 2



2.2.1 Measure your daylight opening.

2.3 Secure sidelite glass gasket to MUTO track

Fig. 3



2.3.1 Ensure the track is cut to proper length.

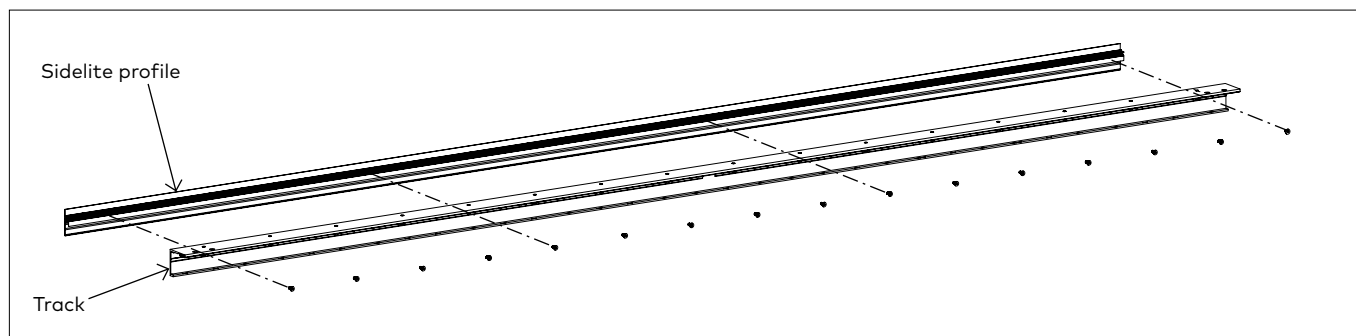
2.3.2 Cut adhesive gasket equal to sidelite glass width.

2.3.3 Adhere gasket along bottom edge of back of track.

2.4 Secure sidelite section profile to MUTO track

I	TIPS AND RECOMMENDATIONS
<p>PURE SONOS with Elock. Refer to 936068 Chapter 3 for installation.</p>	

Fig. 4



2.4.1 Align edge of sidelite profile with track extrusion.

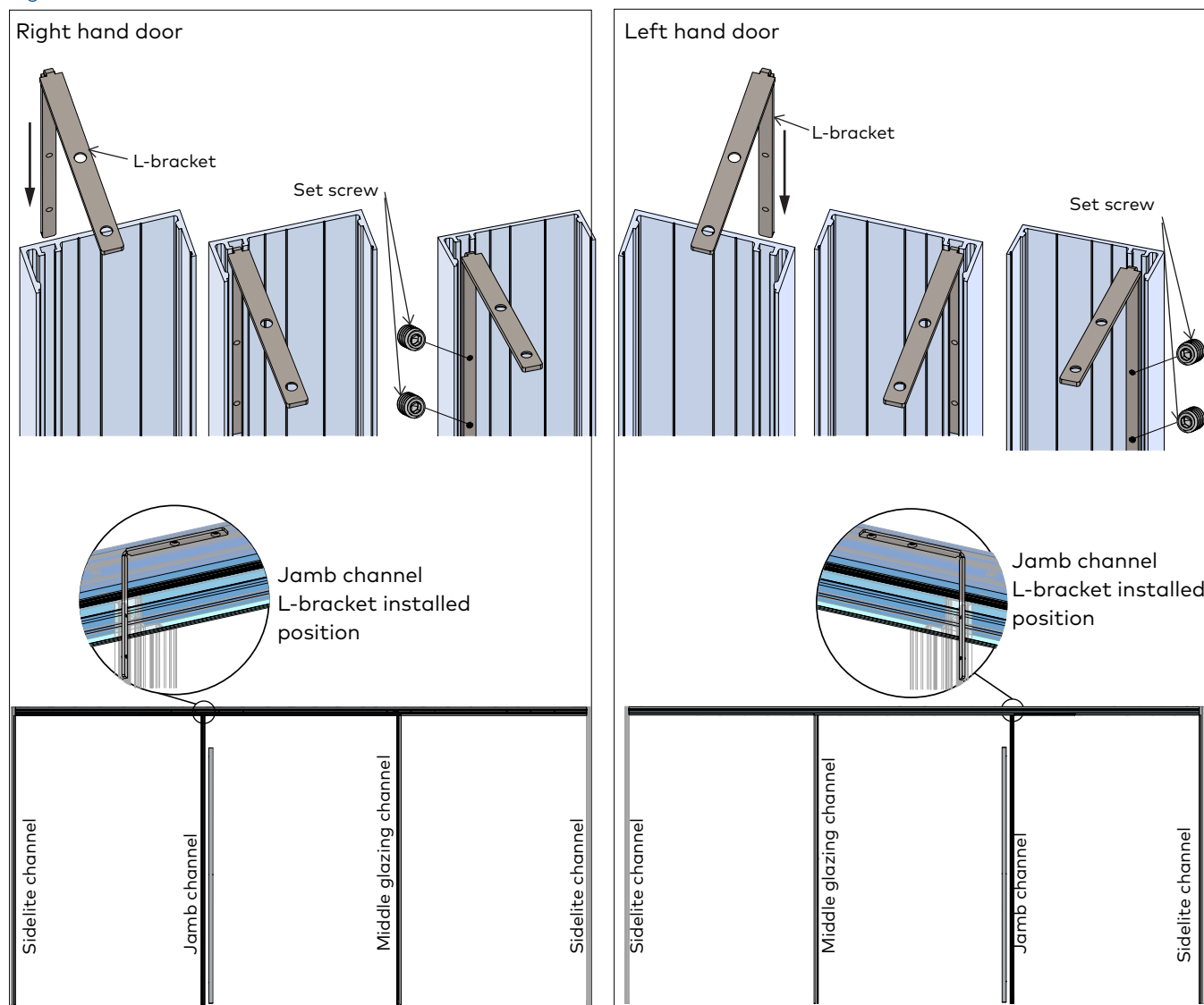
NOTE: Holes will be predrilled every 7-7/8" [200].

2.4.2 Secure with proper fasteners.

NOTE: Be sure fasteners are flush with track to avoid rollers catching protruding fasteners.

2.5 Secure L-bracket to jamb channel

Fig. 5



2.5.1 Slide L-bracket into end of jamb channel.

NOTE: Note orientation for right hand and left hand doors.

2.5.2 Slide L- bracket slightly beyond edge of Jamb channel as shown in **Fig. 5.**

2.5.3 **Temporarily** secure L-brackets in position with two 8-32 x 3/16" set screws.

2.6 Prepare vertical sidelite channels and install L-brackets

Prepare vertical extrusions (sidelite channels).

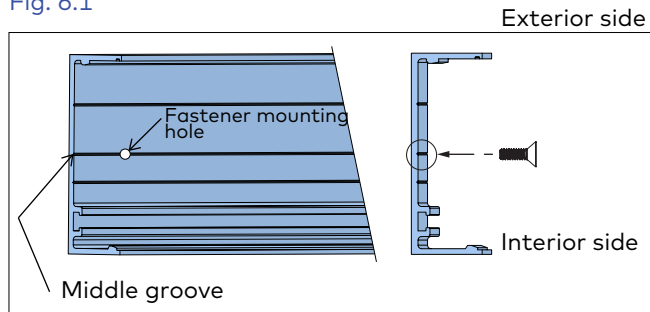
2.6.1 If necessary, measure and cut the sidelite channels at full daylight opening height.

MOUNTING HOLES ARE NOT PRE-DRILLED INTO VERTICAL EXTRUSIONS.

2.6.2 Use appropriate fasteners based on mounting surface.
Size mounting hole diameter based on fastener selection.

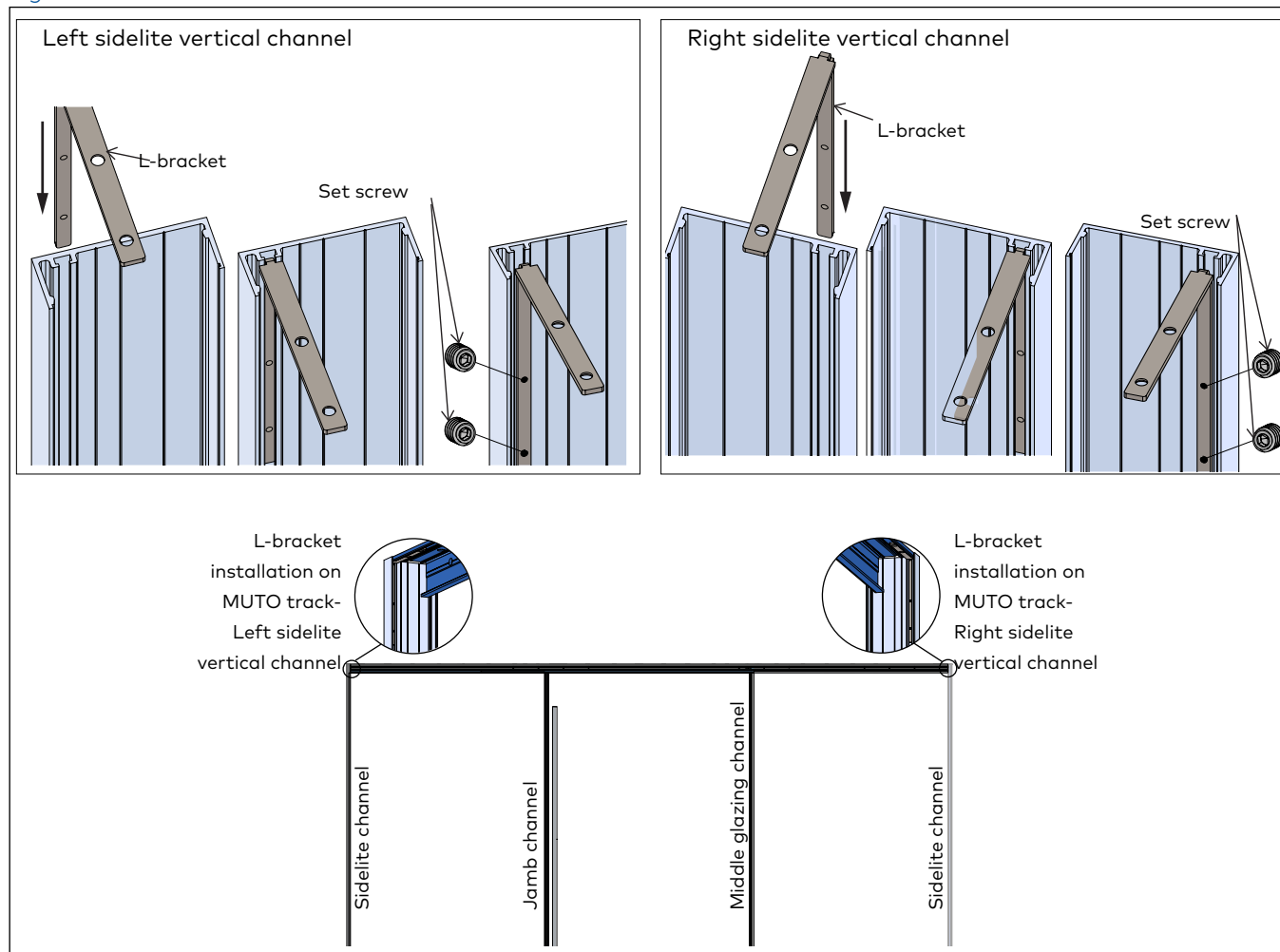
2.6.3 Pre-drill fastener mounting holes into the **middle groove** of the sidelite channels, **Reference Fig. 6.1.**

Fig. 6.1



2.6.4 Sidelite channel mounting holes:
1) Locate first mounting hole 6 inches from top.
2) Then every 24 inches.
3) Locate final mounting hole 6 inches from bottom.

Fig. 6



2.6.5 Slide L-bracket into end of left sidelite vertical channel.

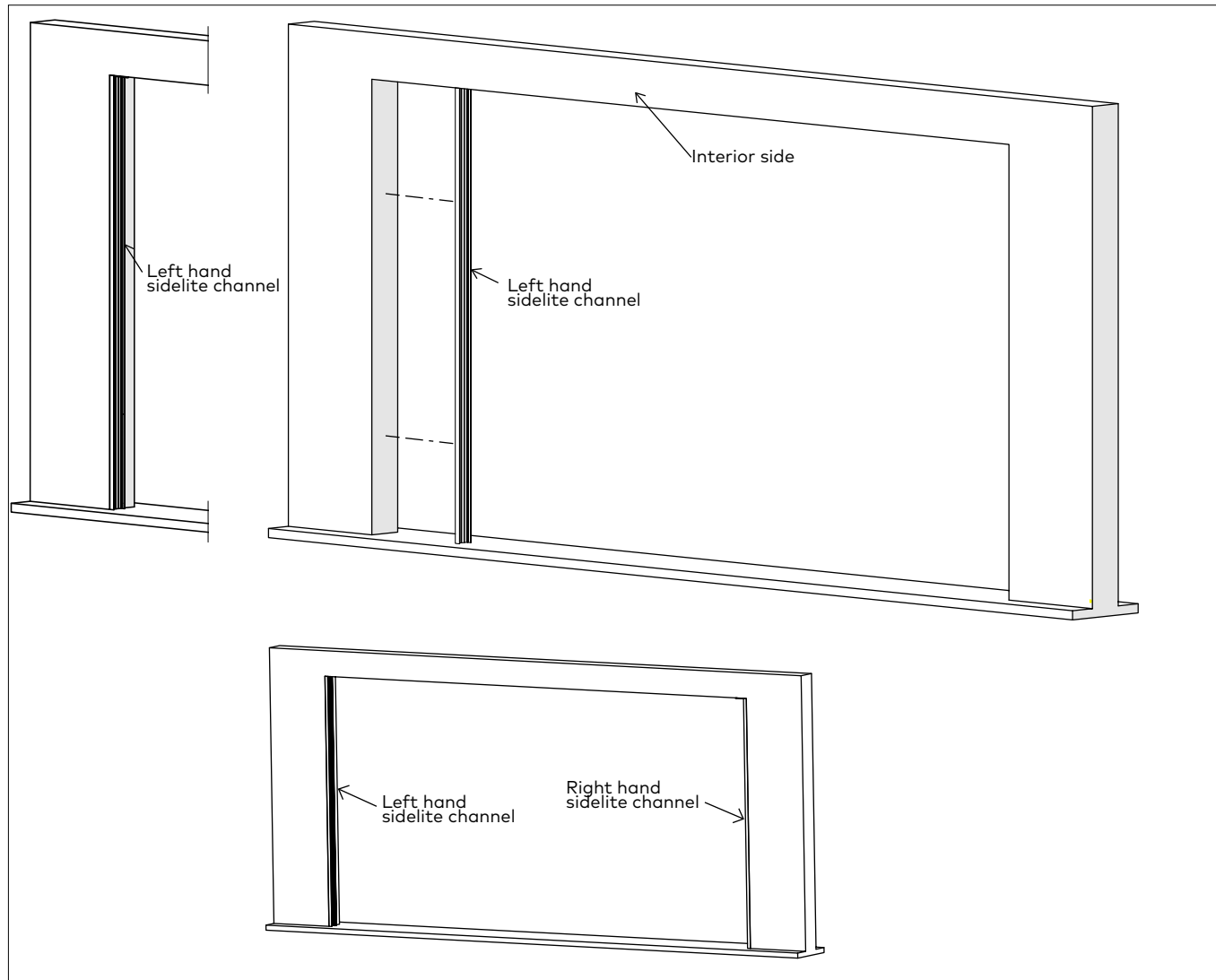
2.6.6 Slide L- bracket slightly beyond edge of sidelite vertical channel as shown in **Fig. 6.**

2.6.7 **Temporarily** secure L-bracket in position with two 8-32 x 3/16" set screws.

2.6.8 Repeat L-bracket installation for right sidelite vertical channel.

2.7 Secure left hand and right hand sidelite channels to door frame

Fig. 7



TIPS AND RECOMMENDATIONS

PURE SONOS with Elock.
Refer to 936068 Chapter 3 for installation.

Secure sidelite channels to door frame.

- 2.7.1 Slide left hand sidelite channel into place on door frame.
- 2.7.2 Ensure sidelite channel is aligned and plumb.

NOTE: ENSURE:

- 1) L-BRACKET IS INSTALLED IN SIDELITE CHANNEL (PARA. 2.6).
- 2) APPROPRIATE SIDELITE CHANNEL IS USED (LH OR RH ORIENTATION)

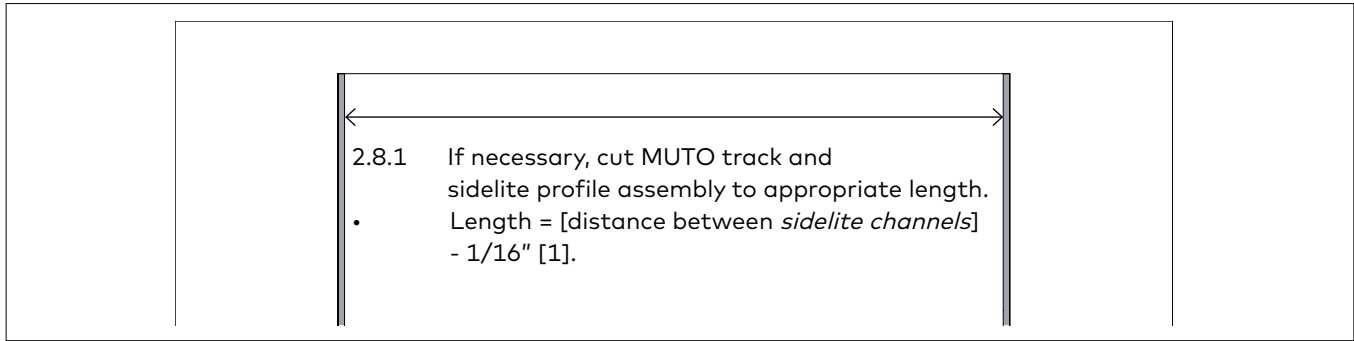
- 2.7.3 Secure sidelight channel to door frame using selected fasteners into pre-drilled mounting holes (Para. 2.6).

NOTE: ENSURE SIDELITE CHANNEL IS PLUMB AND PROPERLY ORIENTATED.

- 2.7.4 Secure right hand sidelite channel to door frame (steps in Para. 2.7.1 thru 2.7.3.)

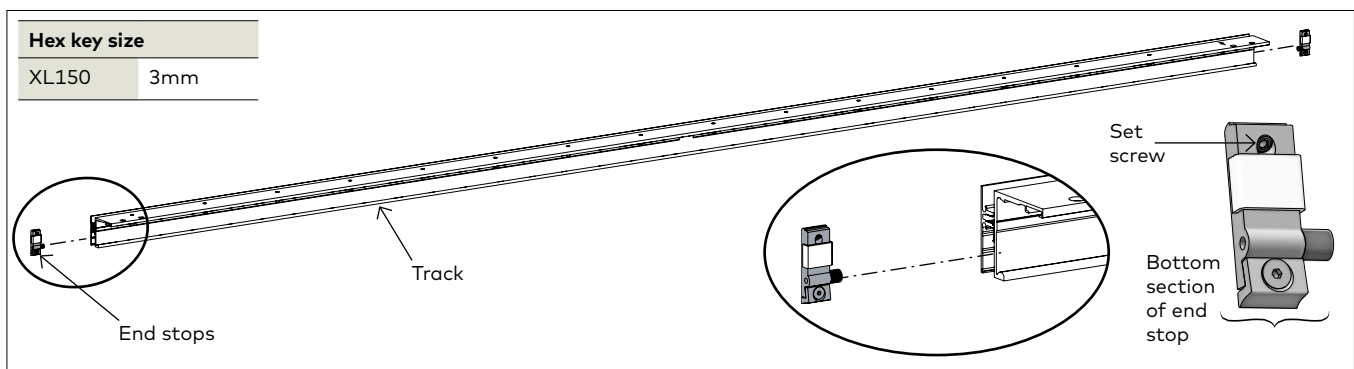
2.8 Prepare MUTO track for installation

Fig. 8



2.9 Install [end stops] into MUTO track

Fig. 9



2.9.1 Slide end stops into each end of the track.

NOTE: Loosen bottom section of end stop for easier install.

NOTE: Be sure set screw is flush with back of end stop.

NOTE: Exact location/adjustments will be determined in the Adjusting End Stop Location step.

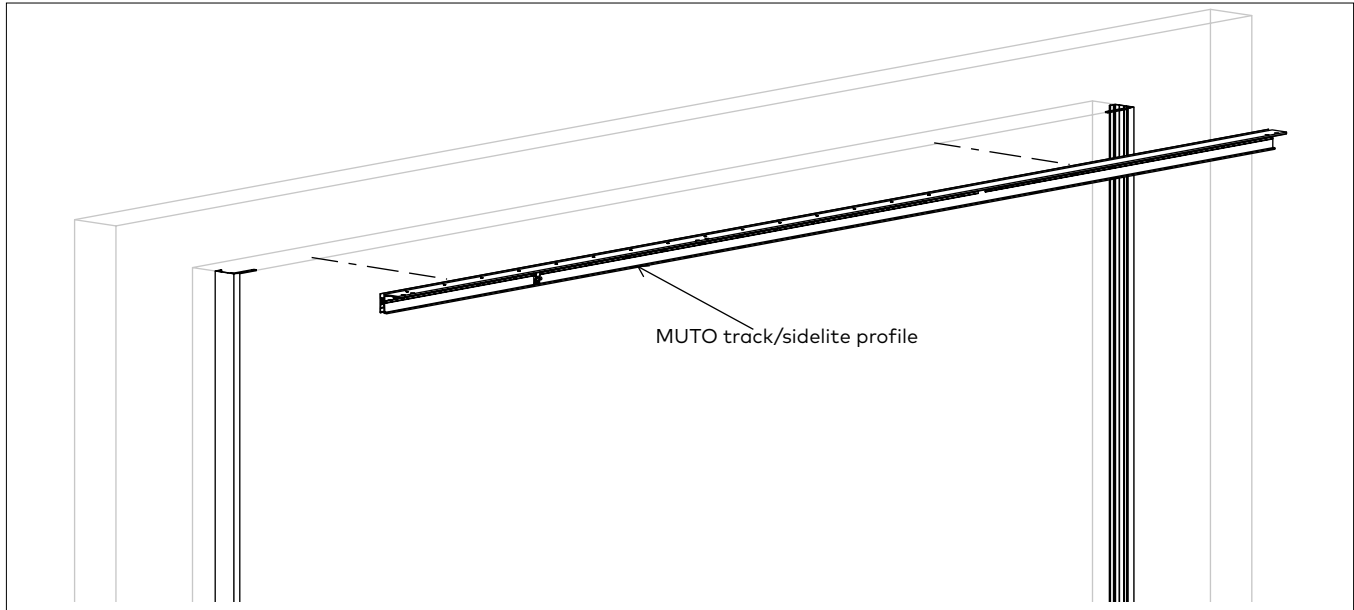
2.10 Secure MUTO track to frame

1

TIPS AND RECOMMENDATIONS

PURE SONOS with Elock.
Refer to 936068 Chapter 3 for MUTO track views

Fig. 10



2.10.1 Ensure track is properly level and secure it to the mounting surface per the appropriate measurements on the following page.

NOTE: SEE DIMENSION INSTRUCTIONS ON NEXT PAGE FOR REFERENCE.

2.10.2 Use appropriate fasteners according to the following recommendations.

NOTE: OVERHEAD REINFORCEMENTS:

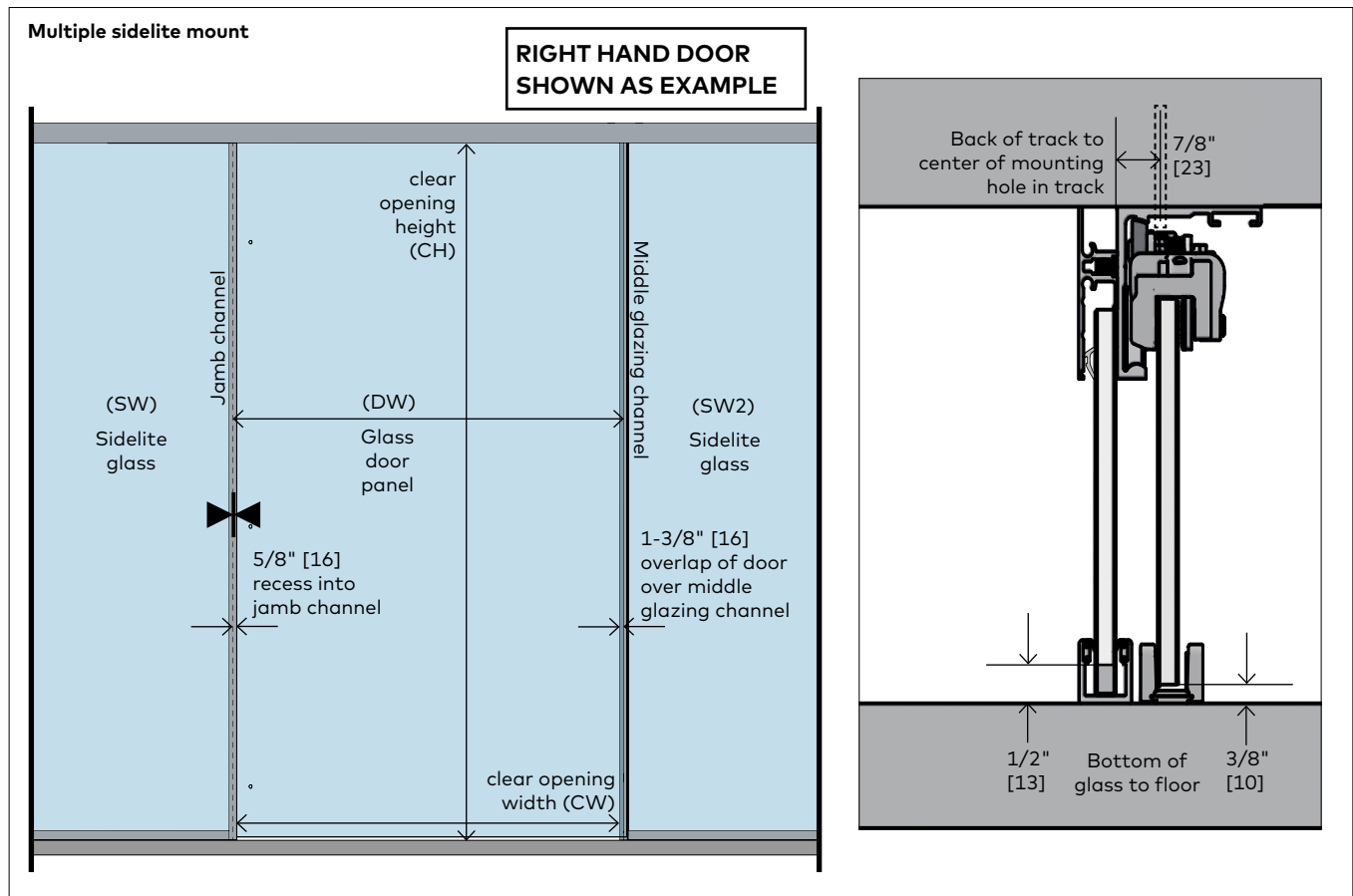
The overhead reinforcement must be a minimum of 1/4" [6] x 3" [76] steel angle, 16 gauge metal studs, or two pieces of 1-1/2" [38] thick wood blocking (double stacked), secured to studs or joists on a maximum 16" [406] centers for the length of the track. The overhead reinforcement may be flush on the overhead surface or on the interior of this surface.

Track mounting screws must fully penetrate the steel angle, metal stud, or at a minimum of 2" [51] into wood blocking, utilizing the predrilled holes in the MUTO track.

Consult with a structural engineer to determine if reinforcement is adequate for your specific application or to meet specific codes in your location.

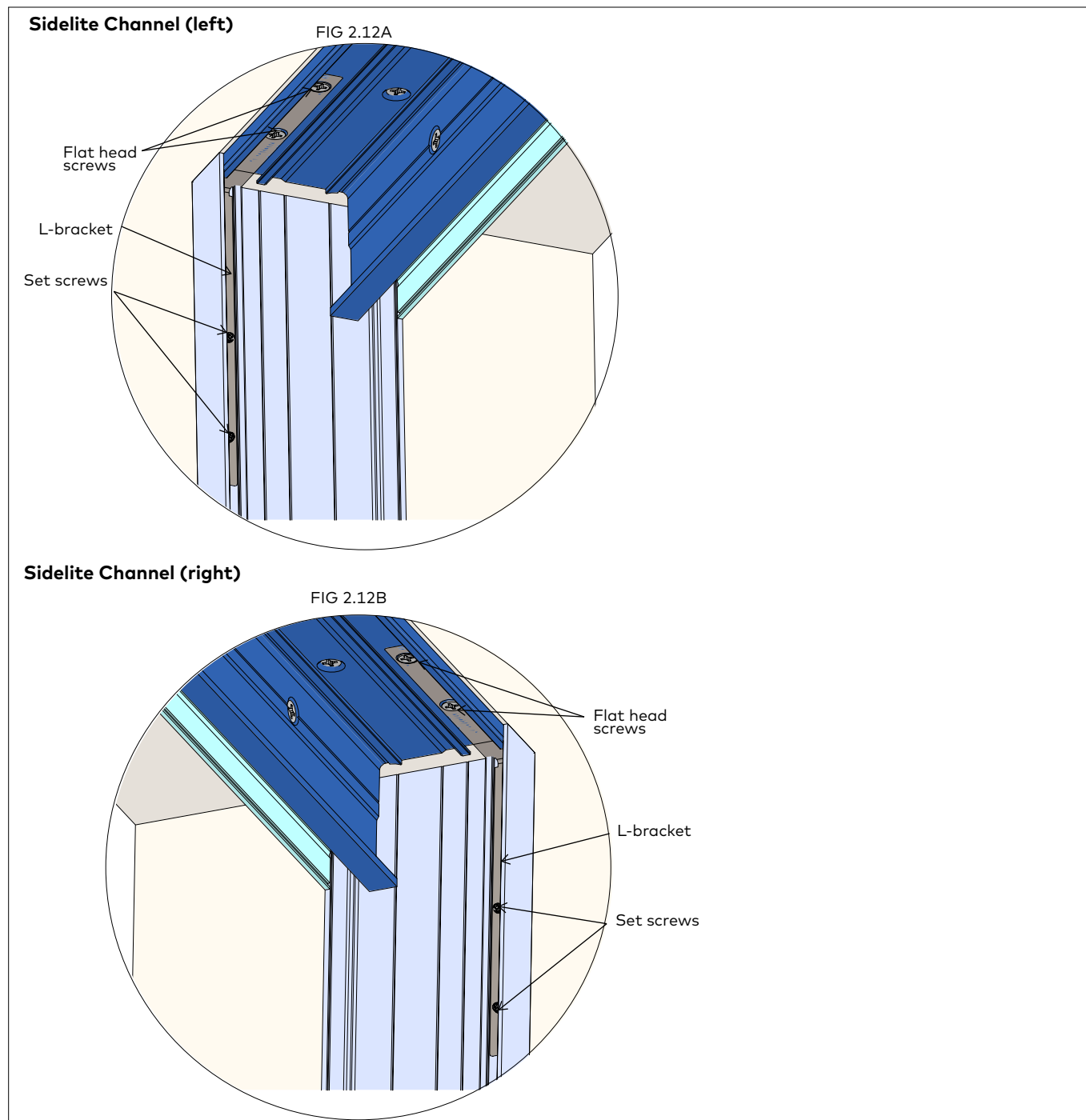
2.11 Door/wall dimensions

Fig. 11



2.12 Secure sidelite channel L-brackets to MUTO track

Fig. 12



2.12.1 Steps for each sidelite channel L-bracket.

2.12.2 Loosen the two set screws and slide L-bracket up to rest against face of MUTO track. .

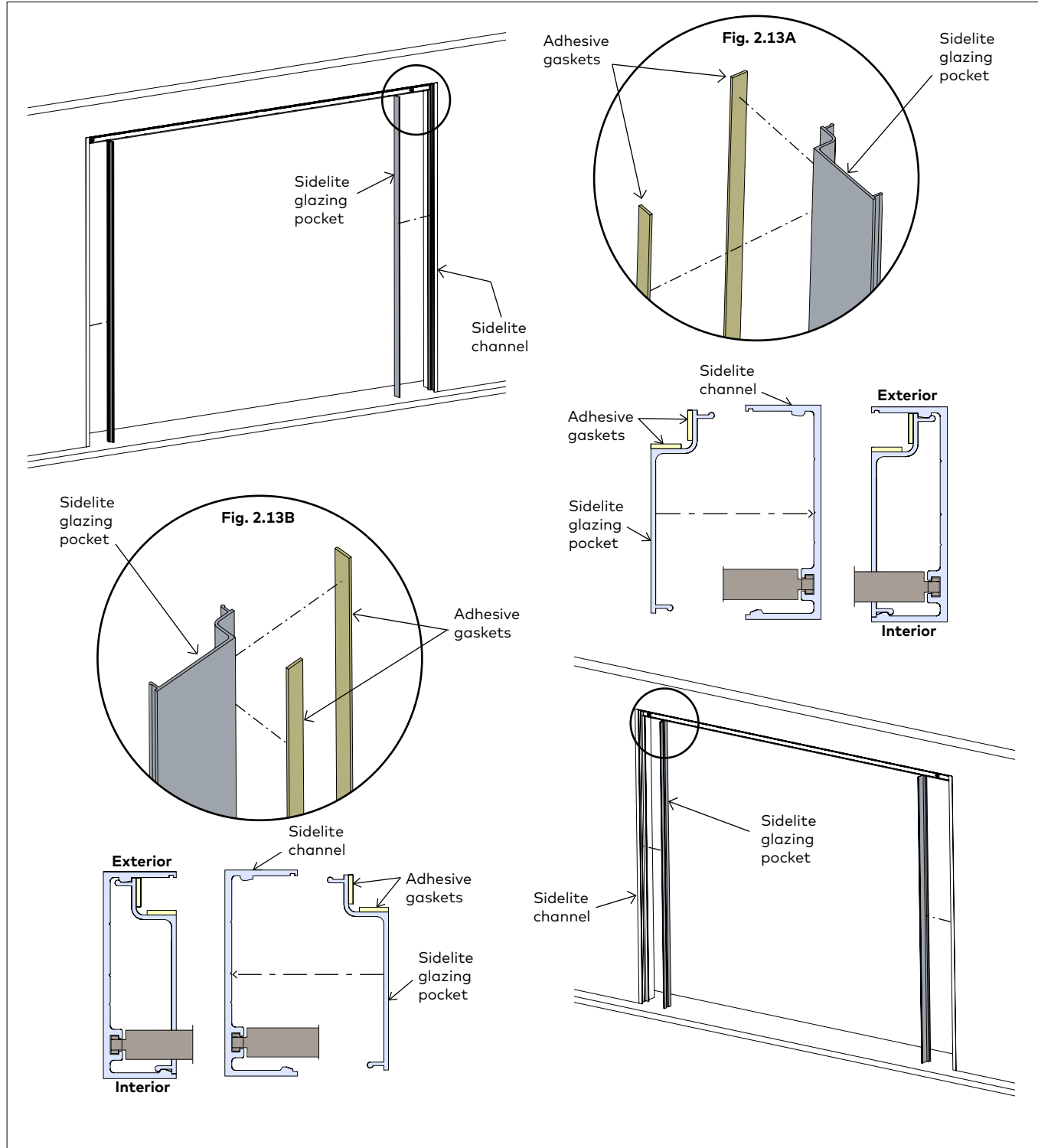
2.12.3 Tighten the two set screws to hold L-bracket in place.

2.12.4 Using mounting holes in L-bracket for location, drill two holes in MUTO track for selected flat head screws.

2.12.5 Secure L-bracket to MUTO track with two flat head screws.

2.13 Install [sidelite] glazing pockets and adhesive gaskets

Fig. 12



2.13.1 Glazing pocket: measure and cut glazing pocket to appropriate length, if necessary.

- **Length = daylight opening - 2-3/4" [70]**

2.13.2 Adhesive gaskets:

- "Cut to size" units. Factory installed.
- "Cut in field" unit options. Gaskets field-cut to appropriate length and installed by technician.

2.13.3 Secure adhesive gaskets ("Cut in field" options). Remove backing & adhere to sidelite glazing pocket.

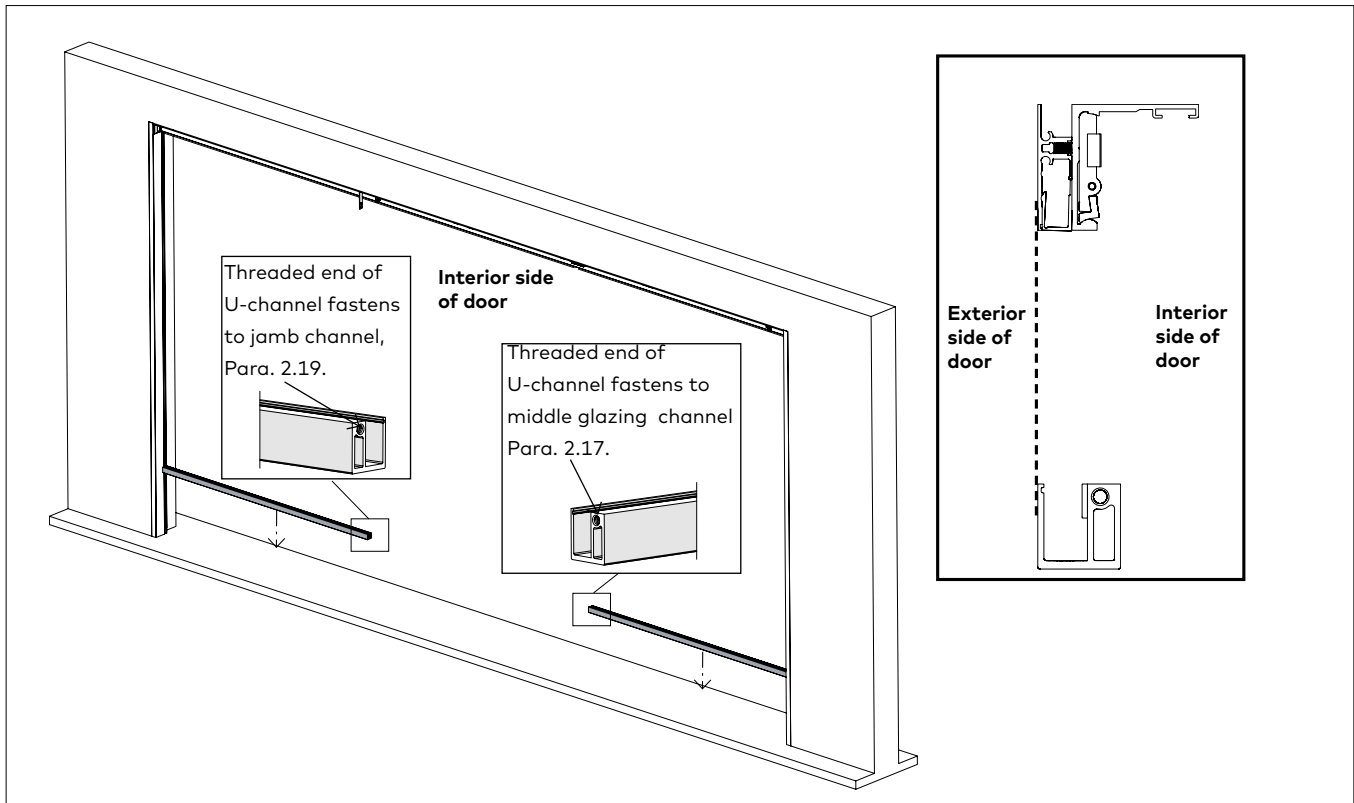
- **Oriented per image above (Fig. 2.12A and 2.12B).**

2.13.4 Secure glazing pocket. Snap glazing pocket into vertical extrusion.

- **Ensure glazing pocket is oriented per images and instructions above.**

2.14 Install U-channel

Fig. 13



2.14.1 Secure U-channels to floor using appropriate fasteners.

TIPS AND RECOMMENDATIONS

If U-channels not cut to length at factory and length is not specified in architect or contractor drawings:

- 1) Measure width of glass sidelite in inches.
- 2) To determine U-channel length, deduct 1" from width measurement (**glass extends 1/2" on each side of U-channel**). Ref. Fig 13.1 (glass shown for reference).
- 3) Cut U-channels to length determined in 2).

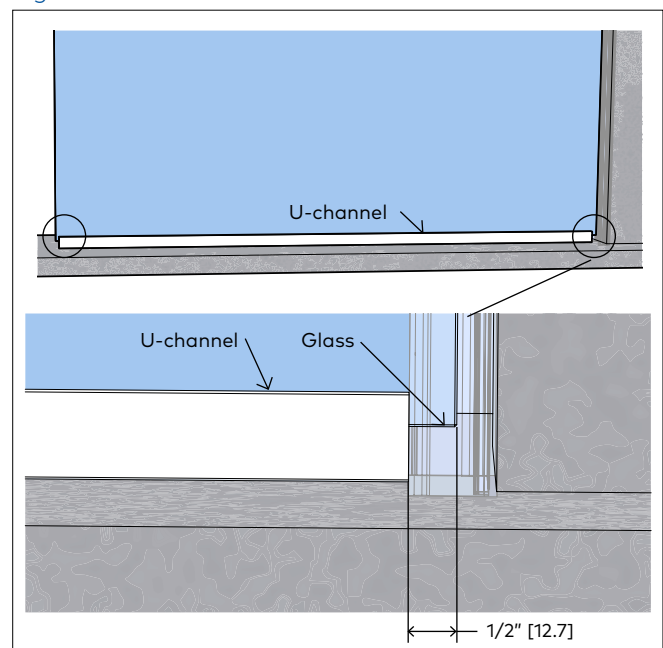
NOTE: Both ends of the U-channels are threaded 1/4-20 x 1".

Before cutting the U-channels, determine which side of the channel is to be orientated towards the middle of the door opening and only cut off the side that is against the sidelite jamb.

2.14.2 Ensure U-channels are plumb with back of track, and that the back of the U-channel is aligned with the back of the sidelite profile. (See inset image above.)

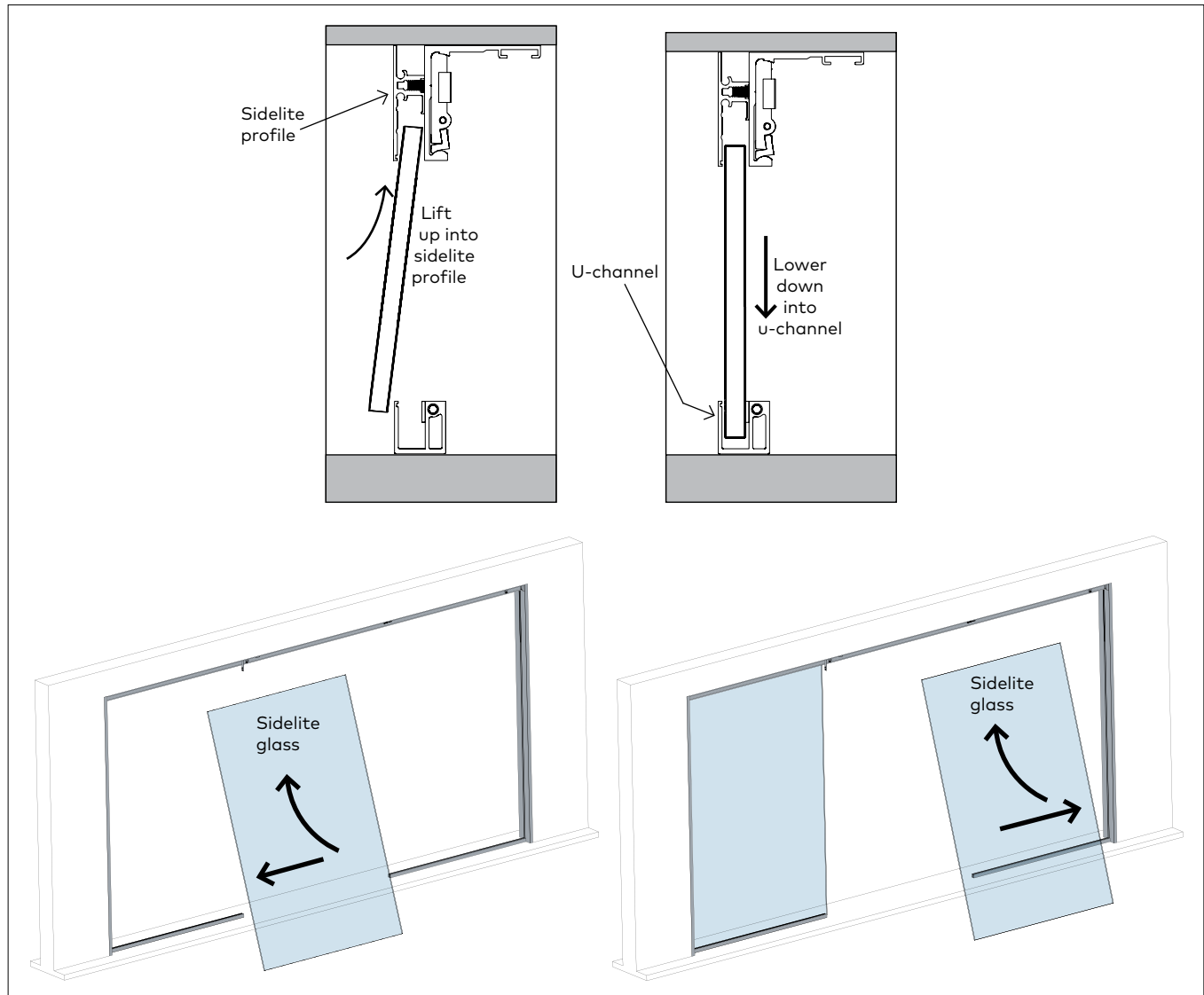
NOTE: Threaded end of U-channel must face the middle of the door opening.

Fig. 13.1



2.15 Install sidelite glass

Fig. 14



2.15.1 Place 1/2" [13] (minimum) setting blocks into u-channel.

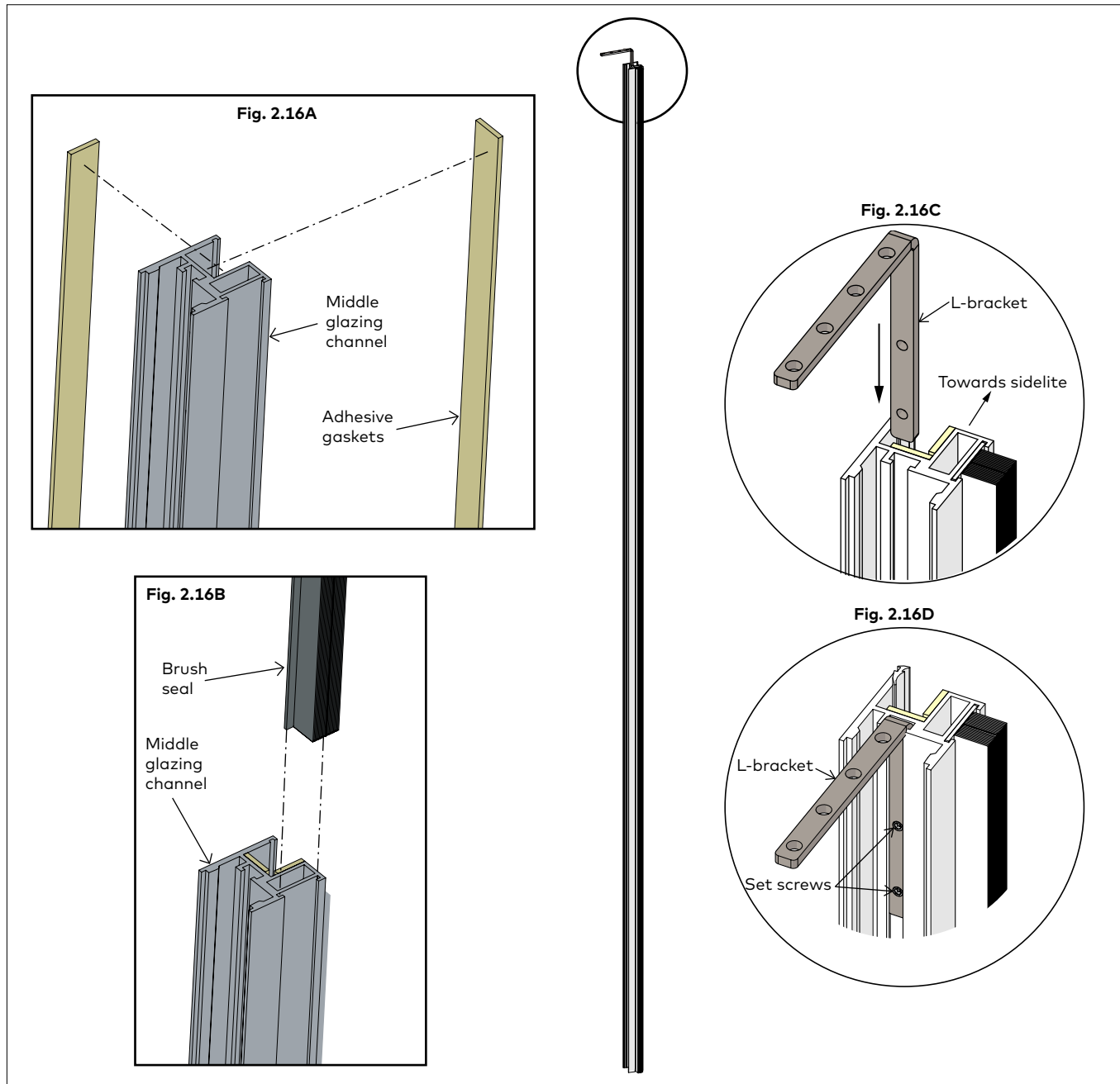
2.15.2 Lift glass up and into sidelite profile.

2.15.3 Lower glass down into U-channel.

NOTE: Gaskets or silicone will be installed in a later step.

2.16 Install adhesive gaskets, secure L-bracket to middle glazing channel

Fig. 15



2.16.1 If necessary, cut middle glazing channel to appropriate length.

- **Length = Daylight opening - 2-3/4" [70]**

NOTE: MIDDLE GLAZING CHANNEL SHOULD BE MOUNTED WITH PRE-DRILLED HOLE, FOR U-CHANNEL, ON THE BOTTOM AND ALIGNED WITH U-CHANNEL.

NOTE: SOME GASKETS MAY BE PREINSTALLED BY FACTORY DEPENDING UPON APPLICATION TYPE.

2.16.2 If not already done, remove strip and secure adhesive gaskets to middle glazing channel (Fig. 2.16A).

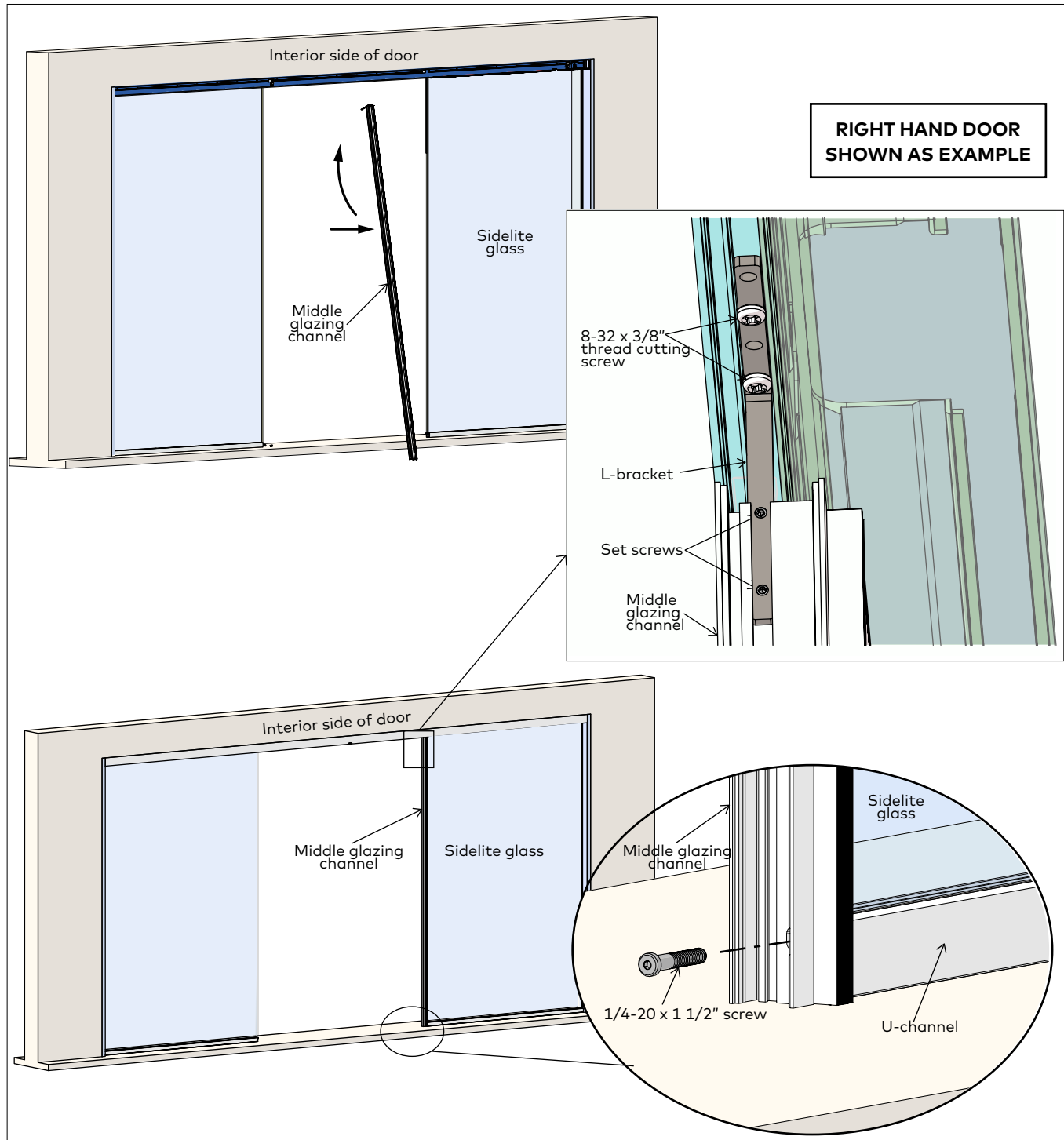
2.16.3 If not already done, slide brush seal down into middle glazing channel (Fig. 2.16B).

2.16.4 Slide L-bracket into end of channel in middle glazing channel (Fig. 2.16C).

2.16.5 Slide L- bracket slightly beyond edge of middle glazing channel and **Temporarily** secure L-bracket in position with two 8-32 x 3/16" set screws(Fig. 2.16D).

2.17 Install middle glazing channel

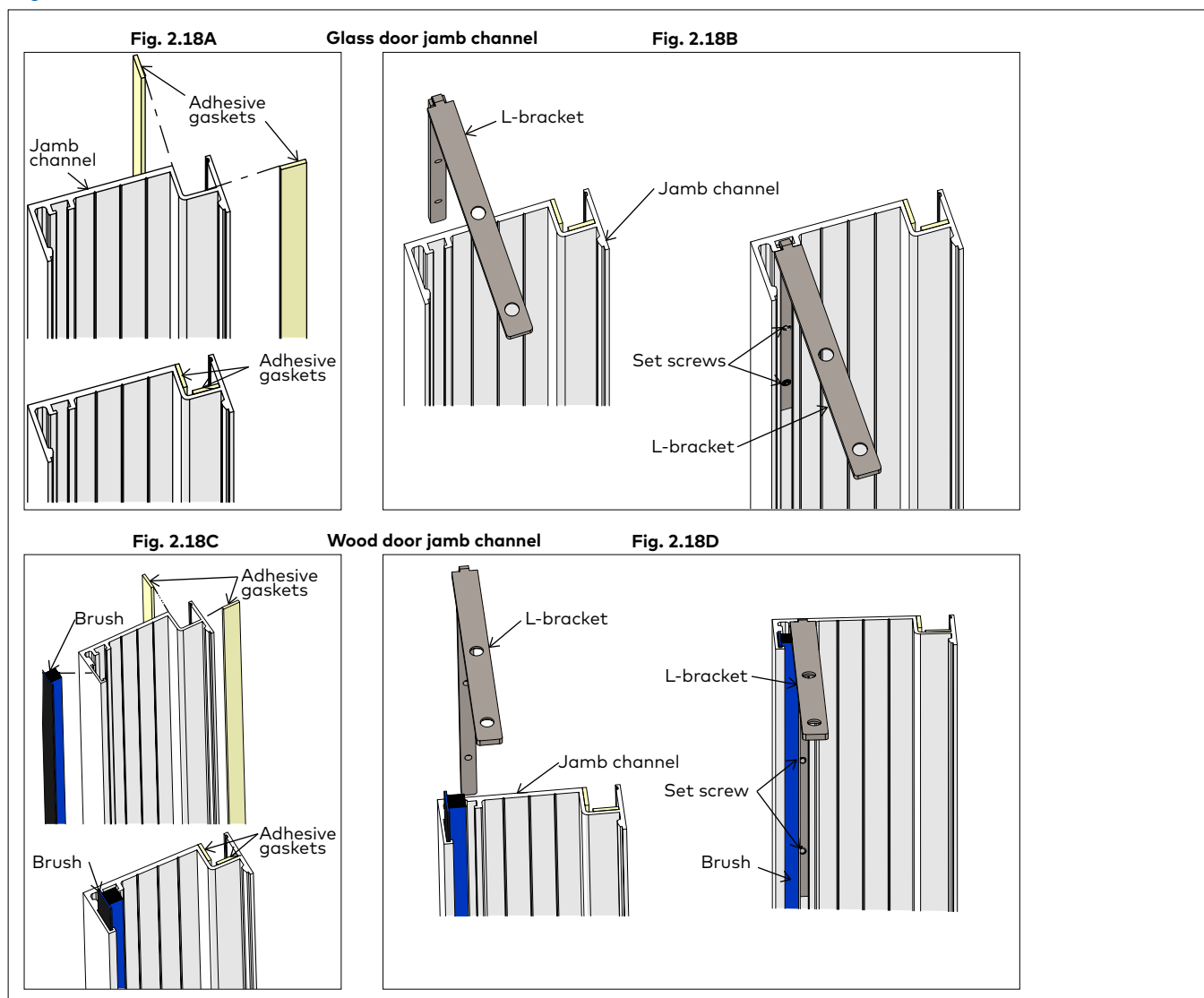
Fig. 16



- | | |
|--|--|
| <p>2.17.1 With L-bracket facing away from sidelite, tip middle glazing channel up into sidelite portion of track.</p> <p>2.17.2 Use a plumb line to verify that the middle glazing channel is square to the horizontal track.</p> <p>2.17.3 Slide over until glazing pocket is touching edge of U-channel and sidelite glass is 1/2" [13] inside glazing pocket of extrusion.</p> <p>2.17.4 Loosen the two L-bracket set screws and slide L-bracket up into sidelite portion of track. Mark any two of the four available holes.</p> | <p>2.17.5 Slide L-bracket down and drill the marked holes.
• Use a No.26 [.147"] drill bit.</p> <p>2.17.6 Slide the L-bracket back up into sidelite portion of track and secure L-bracket to inside of track with two included fasteners [8-32 x 3/8" thread cutting screw].</p> <p>2.17.7 Tighten the two L-bracket set screws.</p> <p>2.17.8 Secure middle glazing channel to end of U-channel with included fastener [1/4-20 x 1-1/2" low profile hex socket head screw].</p> |
|--|--|

2.18 Prepare jamb channel extrusion – glass door and wood door

Fig. 17



Prepare jamb channel for installation.

2.18.1 If necessary, cut jamb channel to appropriate length.

- **Length = Daylight opening - 2-3/4" [70].**

NOTE: JAMB CHANNEL MUST BE MOUNTED WITH PRE-DRILLED HOLE FOR U-CHANNEL (Fig. 19) POINTING TOWARDS THE FLOOR.

NOTE: SOME GASKETS MAY BE PREINSTALLED BY FACTORY DEPENDING UPON APPLICATION TYPE.

2.18.2 If not already done, remove strip and secure adhesive gaskets to jamb channel.

2.18.3 **Wood door jamb channel:** install brush in jamb channel as shown in Fig. 2.18C.

Install L-bracket into jamb channel.

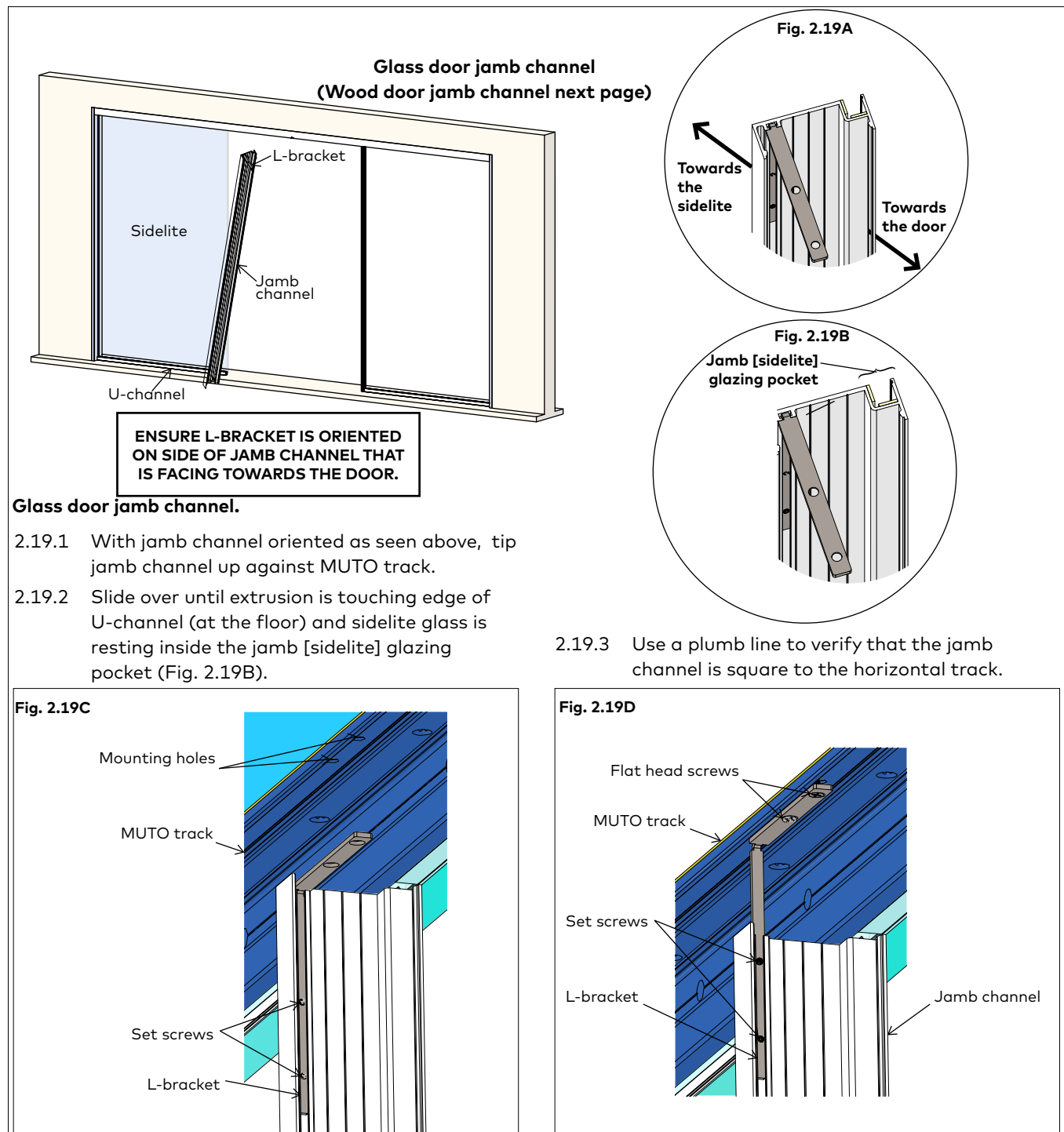
2.18.4 Slide L-bracket into channel at left side of jamb channel.

2.18.5 Slide L- bracket slightly beyond edge of jamb channel as shown in Fig. 2.18B and Fig. 2.18D.

2.18.6 **Temporarily** secure L-bracket in position with two 8-32 x 3/16" set screws (Fig. 2.18B and Fig. 2.18D).

2.19 Secure jamb channel extrusion – glass door and wood door

Fig. 18



Glass door jamb channel.

- 2.19.1 With jamb channel oriented as seen above, tip jamb channel up against MUTO track.
- 2.19.2 Slide over until extrusion is touching edge of U-channel (at the floor) and sidelite glass is resting inside the jamb [sidelite] glazing pocket (Fig. 2.19B).

- 2.19.3 Use a plumb line to verify that the jamb channel is square to the horizontal track.

Secure jamb channel L-bracket to MUTO track.

- 2.19.4 Loosen two set screws and slide L-bracket up to rest against face of MUTO track. (Fig. 2.19D).
- 2.19.5 Tighten the two set screws.
- 2.19.6 Using mounting holes in L-bracket for location, drill two holes in MUTO track for selected flat head screws (Fig. 2.19C).
- 2.19.7 Secure L-bracket to MUTO track with two flat head screws. (Fig. 2.19D).

Secure jamb channel to U-channel.

- 2.19.8 Secure bottom of jamb channel to U-channel using 1/4-20 x 1" socket head machine screw.

Fig. 18.1

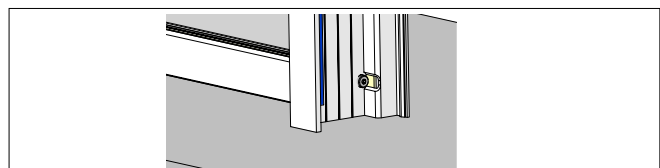
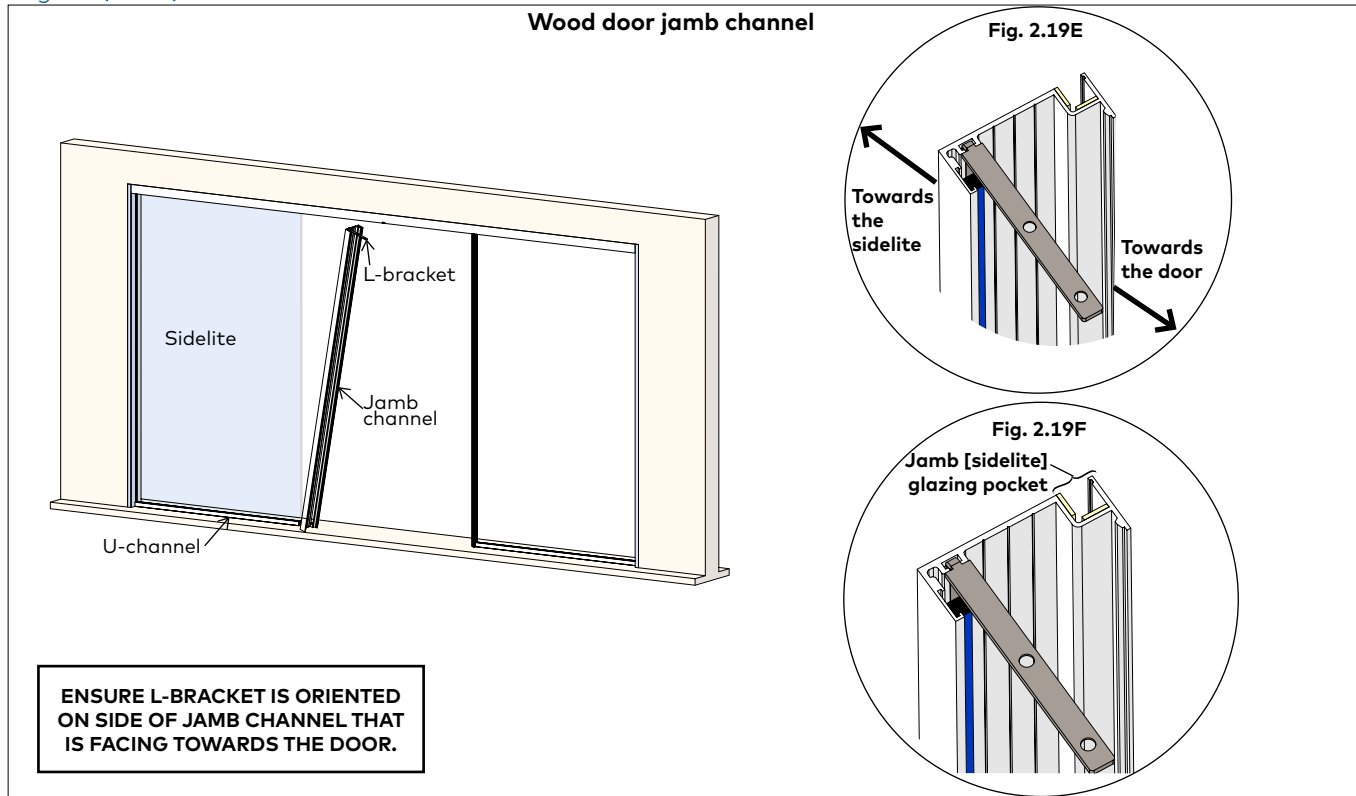


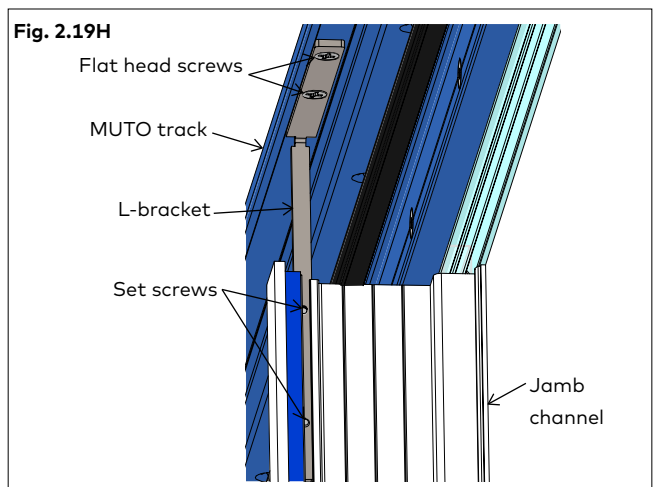
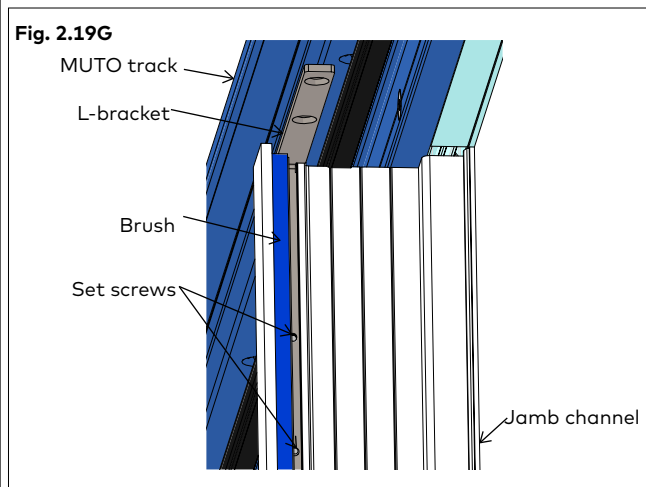
Fig. 18 (Con't)



ENSURE L-BRACKET IS ORIENTED ON SIDE OF JAMB CHANNEL THAT IS FACING TOWARDS THE DOOR.

- 2.19.9 With jamb channel oriented as seen above, tip jamb channel up against MUTO track.
- 2.19.10 Slide over until extrusion is touching edge of U-channel (at the floor) and sidelite glass is resting inside the jamb [sidelite] glazing pocket (Fig. 2.19F).

- 2.19.11 Use a plumb line to verify that the jamb channel is square to the horizontal track.



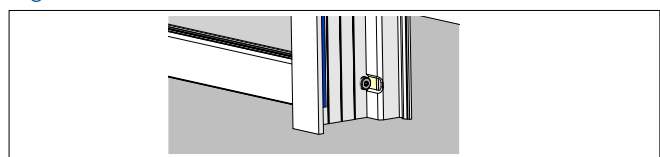
Secure jamb channel L-bracket to MUTO track.

- 2.19.12 Loosen two set screws and slide L-bracket up to rest against face of MUTO track. (Fig. 2.19G).
- 2.19.13 Tighten the two set screws.
- 2.19.14 Secure L-bracket to MUTO track with two flat head screws. (Fig. 2.19H).

Secure jamb channel to U-channel.

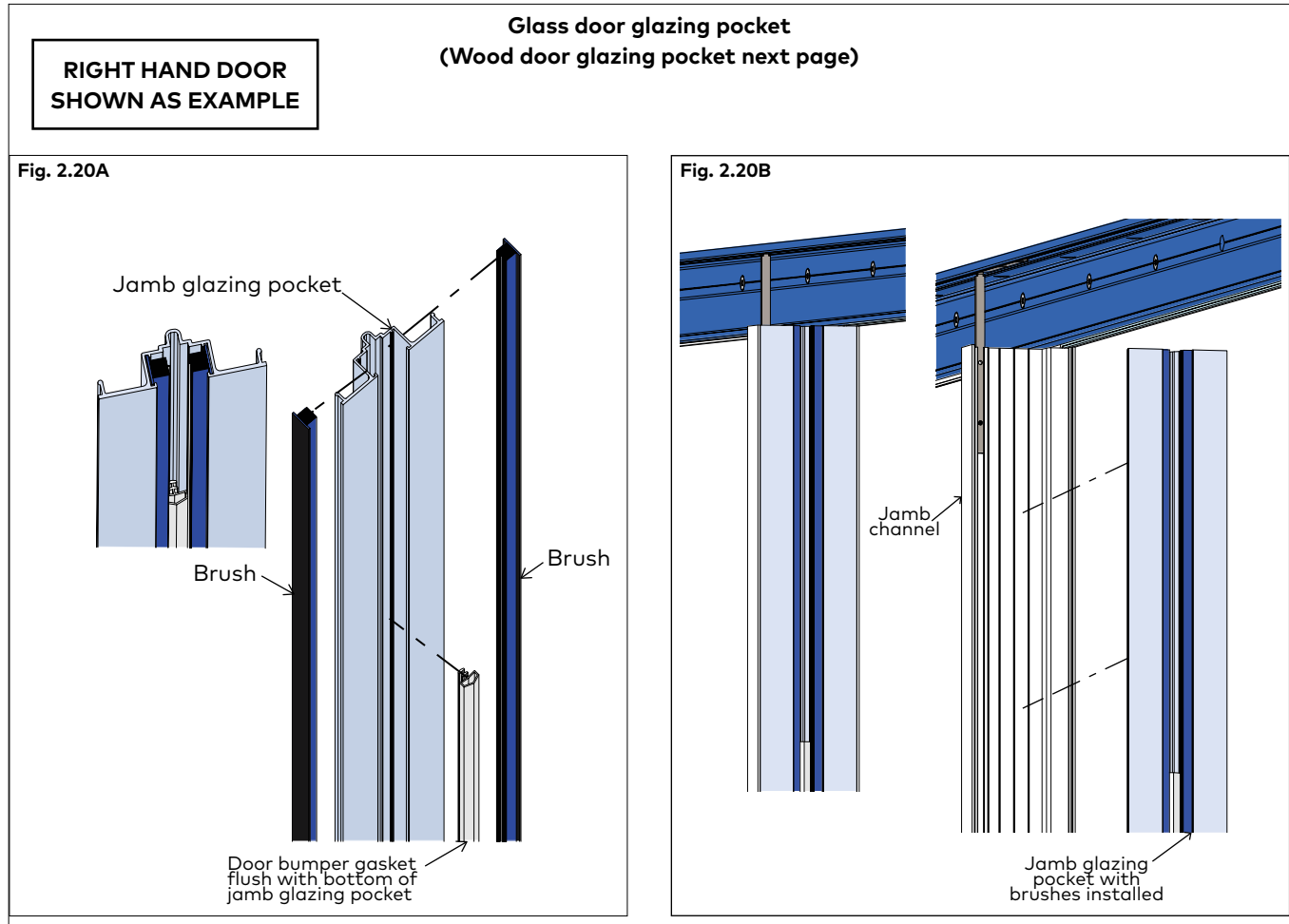
- 2.19.15 Secure bottom of jamb channel to U-channel using 1/4-20 x 1" socket head machine screw.

Fig. 18.1



2.20 Install jamb glazing pocket – glass door and wood door

Fig. 20



Install jamb [glass door] glazing pocket:

- 2.20.1 Measure and cut glazing pocket to appropriate length, if necessary.
- 2.20.2 **Length = daylight opening - 2 3/4" "[70].**

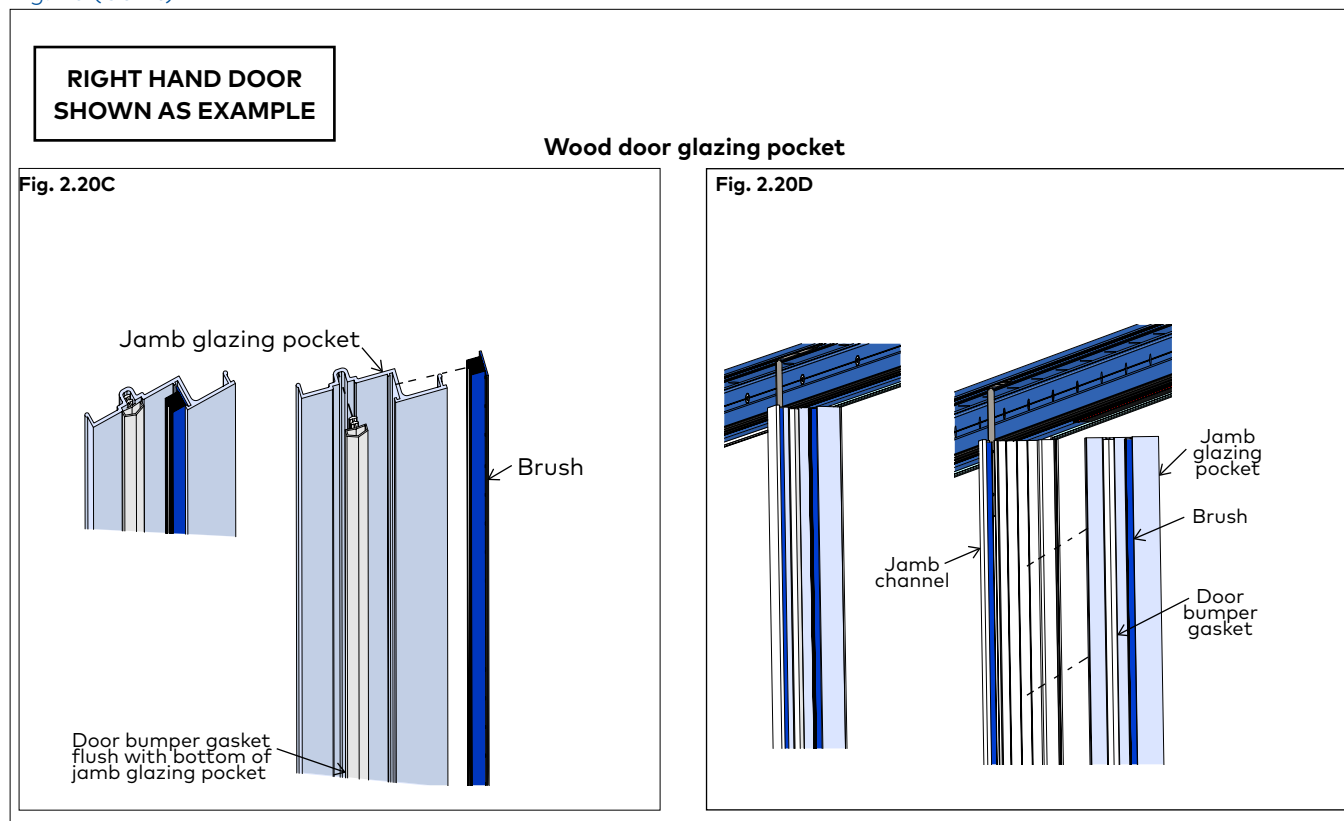
NOTE: SOME GASKETS MAY BE PREINSTALLED BY FACTORY DEPENDING UPON APPLICATION TYPE.

- 2.20.3 If necessary, cut gasket and brushes to appropriate lengths.
- 2.20.4 Slide brushes into jamb [door] glazing pocket. Push door bumper gasket into slot in jamb glazing pocket.
- **Orient per image above (Fig. 2.20A).**

Secure jamb [glass door] glazing pocket.

- 2.20.5 Snap glazing pocket into jamb channel.
- **Ensure glazing pocket is oriented per image and instructions above (Fig. 2.20B).**

Fig. 20 (Con't)



Install jamb [wood door] glazing pocket:

- 2.20.6 Measure and cut glazing pocket to appropriate length, if necessary.
- 2.20.7 **Length = daylight opening - 2 3/4" [70].**

NOTE: GASKET MAY BE PREINSTALLED BY FACTORY DEPENDING UPON APPLICATION TYPE.

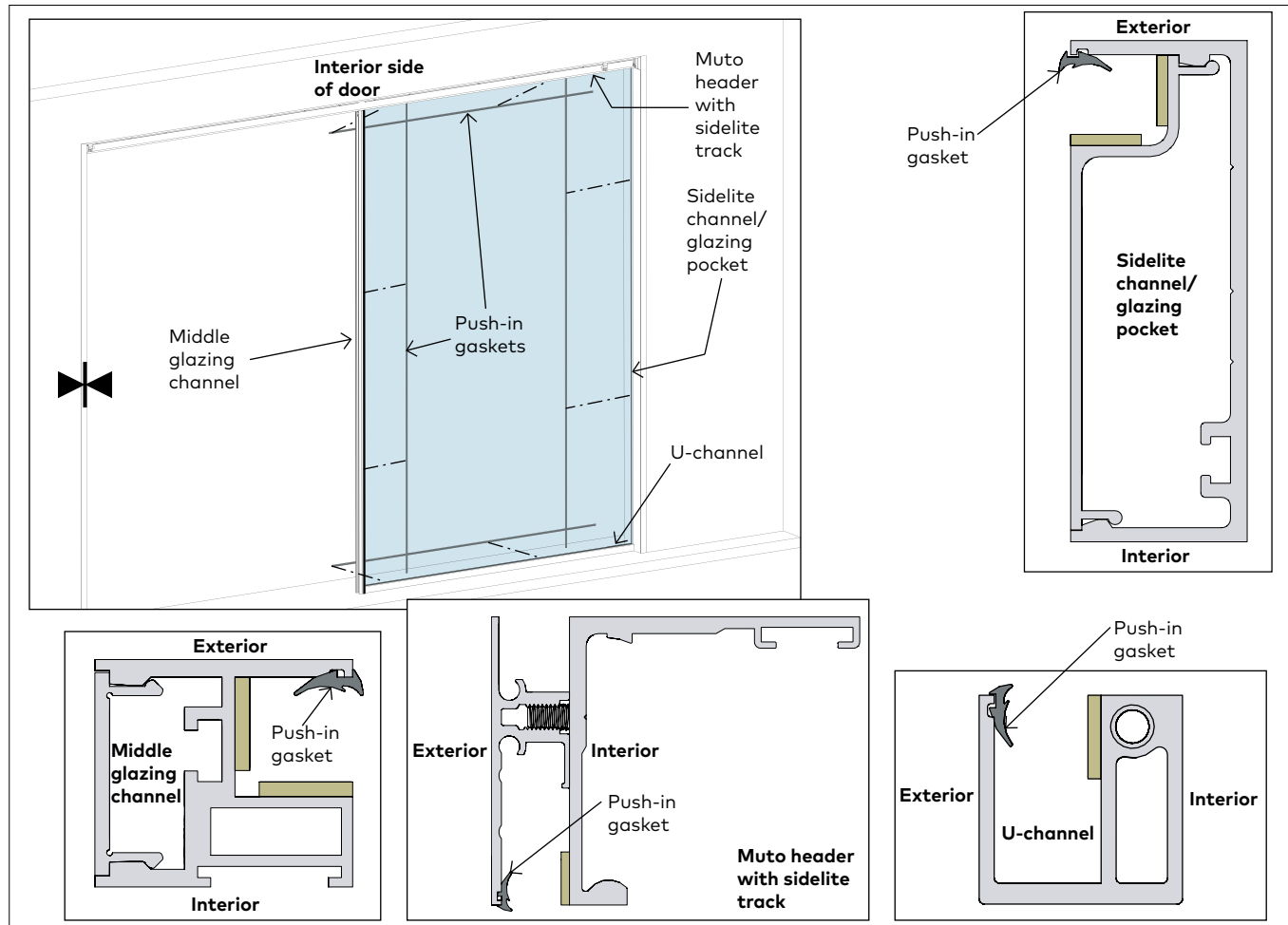
- 2.20.8 If necessary, cut gasket and brush to appropriate lengths.
- 2.20.9 Slide brush into jamb [wood door] glazing pocket.
Push door bumper gasket into slot in jamb glazing pocket.
- **Orient per image above (Fig. 2.20C).**

Secure jamb [wood door] glazing pocket.

- 2.20.10 Snap glazing pocket into jamb channel.
- **Ensure glazing pocket is oriented per image and instructions above (Fig. 2.20B).**

2.21 Install push-in gaskets or silicone along all sidelite channels

Fig. 19



2.21.1 If using monolithic glass:

- Press push-in gaskets along all channels of the sidelite glass, on the exterior side of the glass in the grooves of the extrusions.

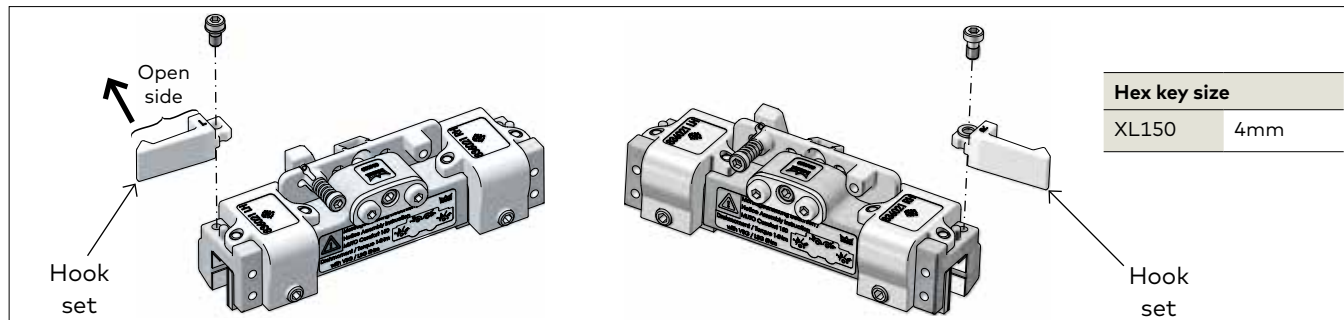
2.21.2 If using tempered laminated glass:

- Press push-in gaskets along all channels of the sidelite glass, on the exterior side of the glass in the grooves of the extrusions.
- Gently press glass panel against dri-fit gasket and dispense silicone along full length of non-dri-fit gasket/interior side of extrusions.

NOTE: If tempered laminated glass is too thick to accept push-in gasket, gently press glass against adhesive gasket and dispense silicone along full length of exterior side of extrusions.

2.22 Install hook set (Only if Dormotion application not used)

Fig. 20



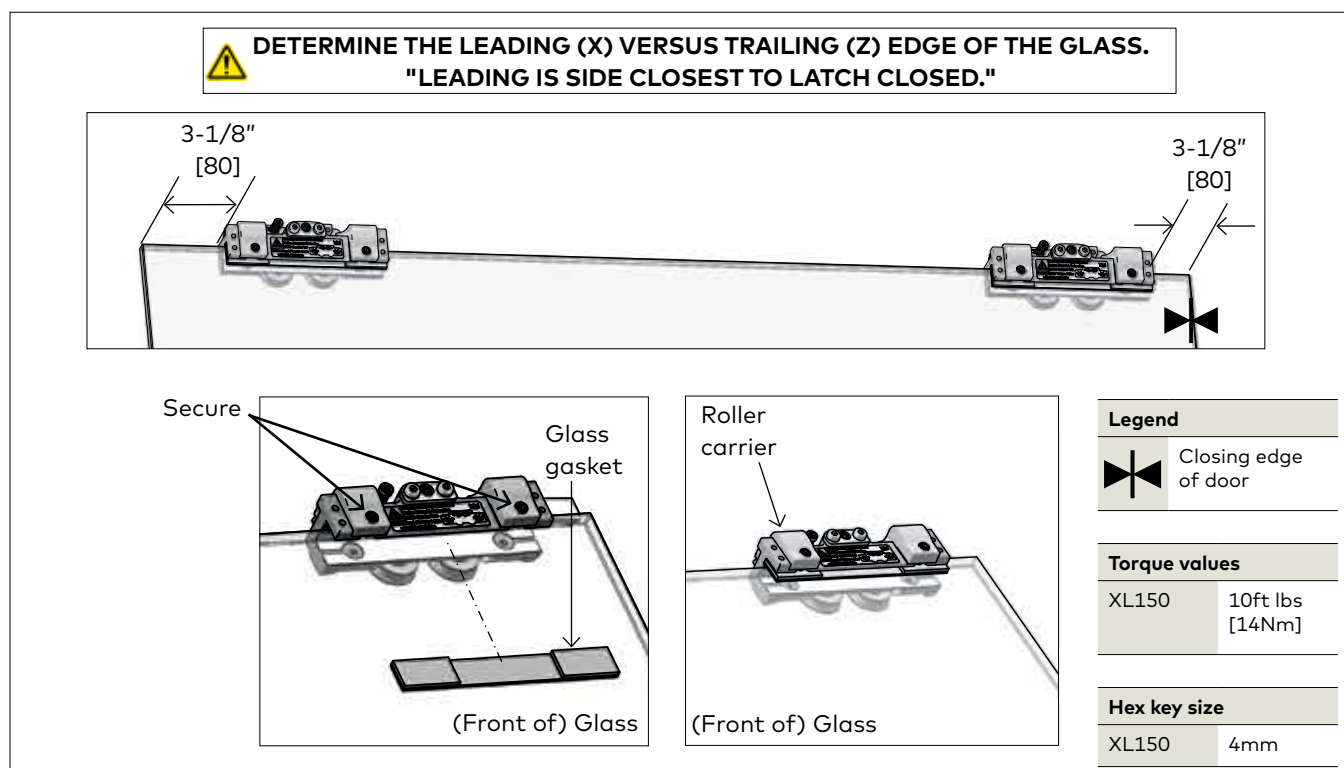
2.22.1 With rollers facing away from the installer, determine which roller will be leading and which will be trailing.

2.22.2 Secure hook onto roller with open side facing away from the installer.

2.22.3 Secure hook using appropriate-size hex key.

2.23A Install roller carriers: on monolithic glass ONLY

Fig. 21



⚠ NOTE: FULLY CLEAN SURFACE OF GLASS WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER.

⚠ ENSURE GASKET IS FREE OF DEBRIS.

⚠ ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.

2.23A.1 Slide roller carriers onto glass.

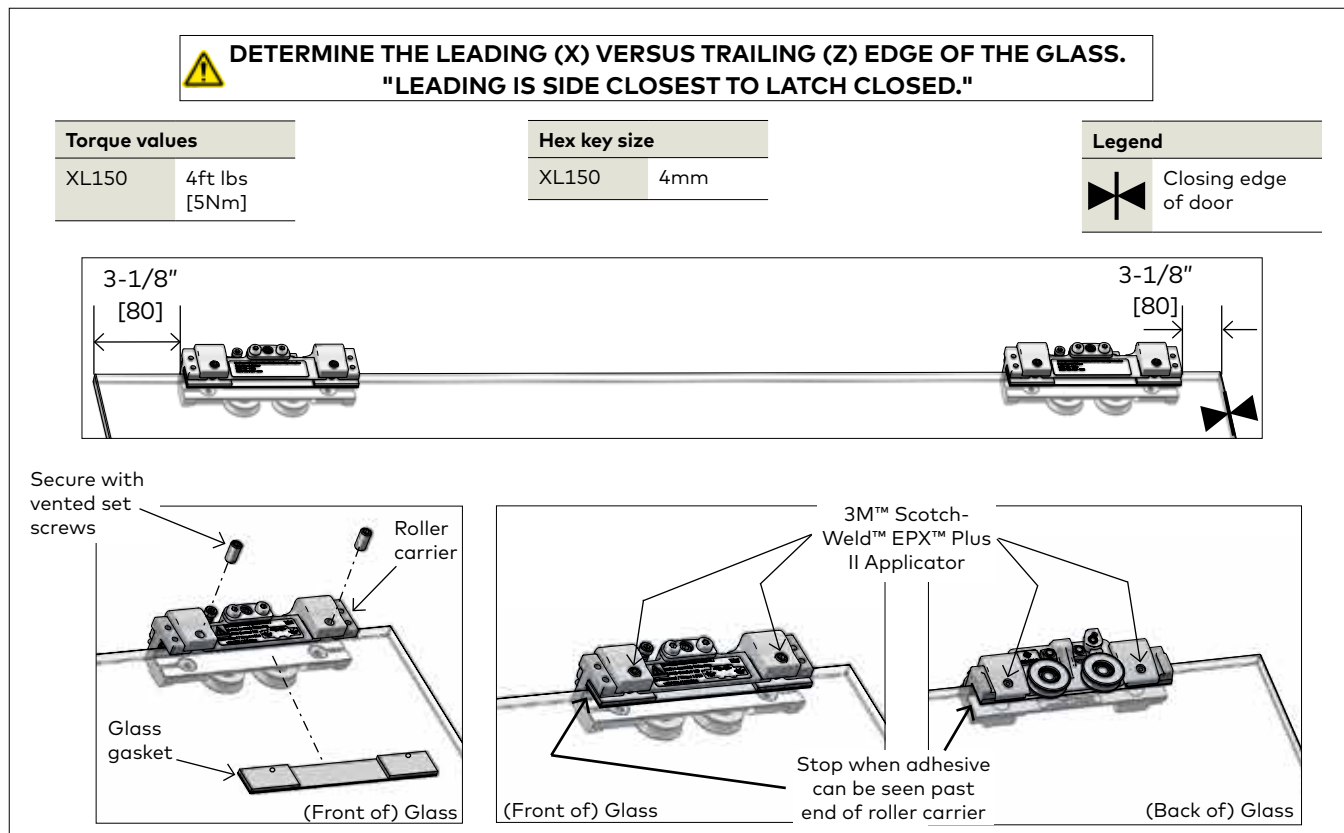
2.23A.2 Slide glass gasket and metal shim between glass and roller carrier.

NOTE: Orient with gasket facing the glass.

2.23A.3 Secure roller carriers to glass using appropriate-size hex key at 10 ft lbs [14 Nm].

2.23B Install roller carriers: on tempered laminate glass ONLY

Fig. 22



⚠ NOTE: THE RECOMMENDED ADHESIVE'S SET-UP TIME IS 20 MINUTES FOR THE DUO-PAK CARTRIDGES.

⚠ NOTE: USE 1:1 RATIO PLUNGER WITH THE 3M™ Scotch-Weld™ Urethane Adhesive.

⚠ NOTE: FULLY CLEAN SURFACE OF GLASS WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER. ENSURE NO DEBRIS IS ON THE GASKET.

⚠ ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.

- 2.23B.1 Slide carriers onto glass.
- 2.23B.2 Replace existing gasket with TLG gasket.
- 2.23B.3 Slide laminated glass gasket and metal shim between glass and roller carrier.

NOTE: Orient with gasket facing the glass.

- 2.23B.4 Replace existing set screws with vented set screws.
- 2.23B.5 Tighten vented set screws at 4 ft lbs [5Nm].

NOTE: Onto scrap material, first dispense approximately 12" of 3M™ Scotch-Weld™ Urethane Adhesive prior to application to prevent mixing errors and ensure optimal hardening.

- 2.23B.6 Dispense adhesive into vented set screws on both sides of carrier.



Stop application when adhesive can be seen past edge of roller carrier.



DO NOT WIPE any excess adhesive from glass surface. Allow adhesive to dry and scrape off glass surface with a beveled-edge chisel or putty knife.

NOTE: Keep glass flat during curing process.

NOTE: See chart in Specifications section for appropriate curing time.

2.24 Wood door – Technical specifications overview

These instructions are for installation of MUTO PREMIUM sliding door system XL150 for wood doors for the following mounting and style versions:

1. Ceiling mount only.

2.24.1 General information

- dormakaba glass hardware is not suitable for application in rooms where chemicals (e.g. chlorine) are used as indoor swimming pools, saunas or salt-water pools.
- Never move sliding panels faster than walking speed and always stop the door manually before it reaches end position.
- Do not slide doors with excessive force. Install limiting stop to prevent door from opening too far.

2.4.2 Intended use

- For sliding door in dry indoor areas only
- For manual slowly opening and closing only

2.24.3 Door requirements and fittings

- The substructure/wall must be able to bear permanent loads and be level (max. tolerance: 1/16" [2] per 39" [1m]).
- Fasteners must be sufficiently dimensioned for the substructure/wall and weight of the door.
- When adjusting door components, always stick to the required clearance for the respective hardware.

2.24.4 Safety instructions

- Installation requires two people.
- Only properly qualified and specially trained staff are authorized to mount dormakaba glass hardware.
- Never clamp metal fitting hardware directly to glass surface.

2.24.5 Symbols used - Safety/Installation



CAUTION

Mounting components must meet the requirements of substructure/wall and door weight. Please read the technical information for fittings.



WARNING



TIPS AND RECOMMENDATIONS

Information note



CLOSING EDGE

2.24.6 Maintenance, care, repair

- Immediately replace damaged parts.
- Always use original dormakaba parts.
- Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.
- Use a damp clothe for occasional cleaning, especially the track.
- Always use silicone - and oil-free cleaners (e.g. acetone).
- Check door hardware at regular intervals for proper positioning and smooth operation and correct adjustment.
- High traffic door systems require inspection by properly qualified staff (specialized companies or installation firms.)

2.24.7 Disposal

Disposal in accordance with local, state and national regulations.

2.25 Wood Door Technical Specifications – technical data

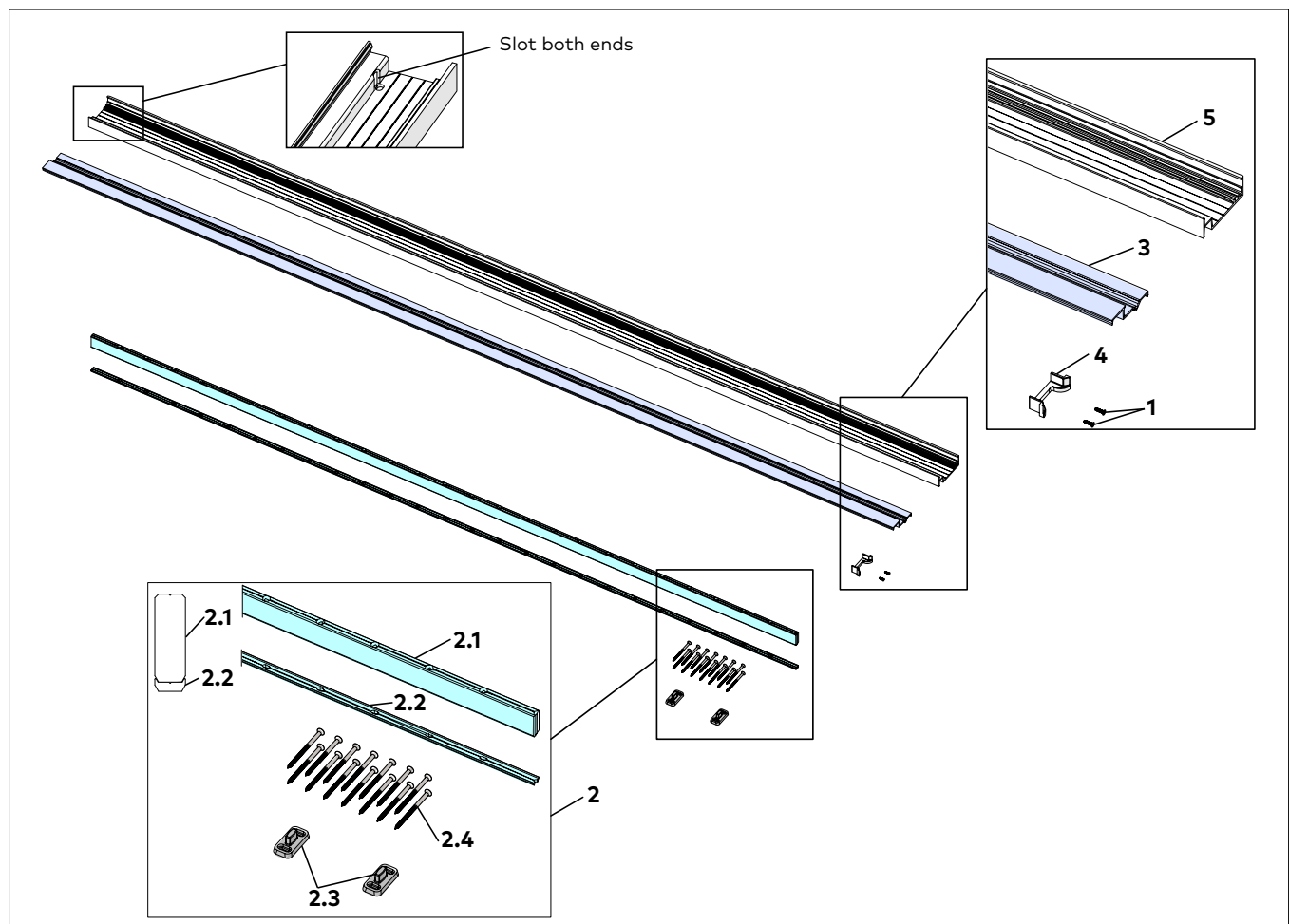
		Single Door
		XL150
Ceiling mount	Door leaf weight lbs [kg] *	≤330lbs [≤150]
	Wood door thickness inches [mm]	1 3/4" [44.5]

* Including weight of auxiliary hardware.

2.26 PURE-SONOS wood door installation hardware

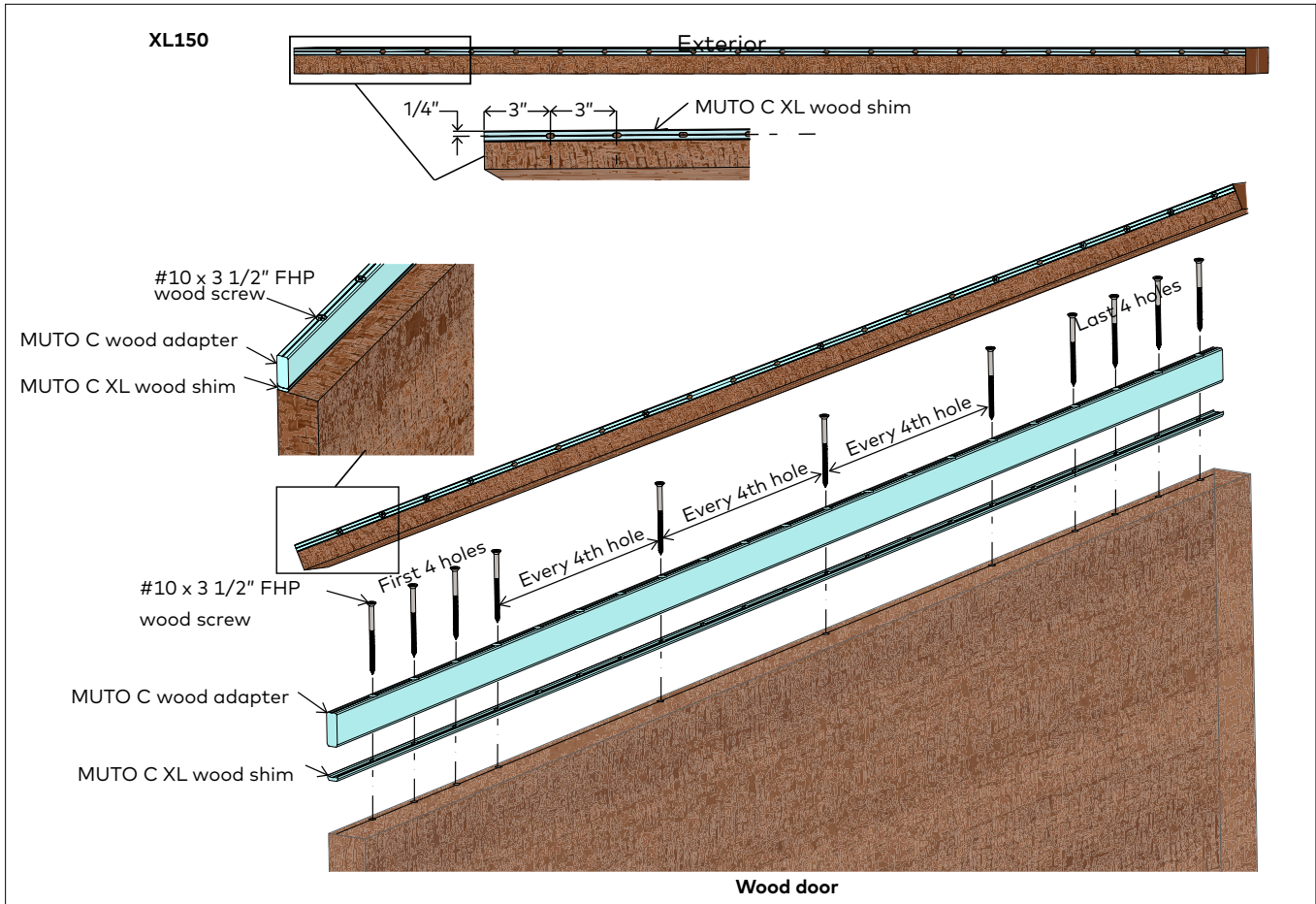
Item No.	Part Number	Description	QTY
1	925-103	Screw, 6-32 x 1/2" PHFH #F	2
2	936-461	Accessories, MUTO C XL wood door adapter 2M	1
2.1	836-090	Extrusion, MUTO C wood adapter	1
2.2	836-091	Extrusion, MUTO C XL wood shim	1
2.3	836-148	Accessory, MUTO wood floor guide	2
2.4	936-990	#10 x 3" FHP wood screw	14
3	936-760	Extrusion, PURE-SONOS wood GLZ cover	1
4	936-762	PURE-SONOS wood floor guide strike	1
5	936-764	PURE-SONOS center SL wood channel	1

Fig. 25



2.27 Prepare wood door: mounting to MUTO track, slot for floor guide

Fig. 26



Install wood adapter and wood shim on top of wood door.

NOTE: Top of door must be reinforced to secure wood door adapter.

2.27.1 Prepare the door properly for the wood door adapter and shim.

NOTE: Seal top and bottom of door to minimize warping (use wood door manufacturer's recommendations).

2.27.2 Cut wood adapter and wood shim to full width of wood door.

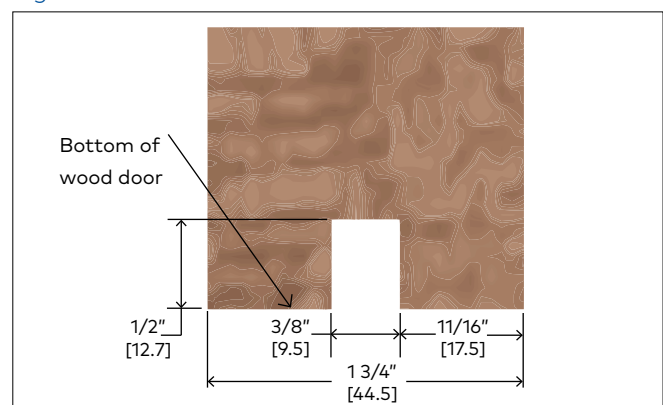
2.27.3 Place wood shim on top of door flush with door exterior.

Mark hole locations in top of door for the first and last 4 holes, along with every 4th hole in between (Fig. 27). Remove wood shim.

2.27.4 Drill 1/8" pilot holes to a depth of 1" in each marked hole location. **Drill must be vertical.**

2.27.5 Secure wood adapter and wood shim on top of door using #10 x 3 1/2" wood screws. **Screws must be installed in the first and last 4 hole locations along with every fourth hole in between.**

Fig. 26.1

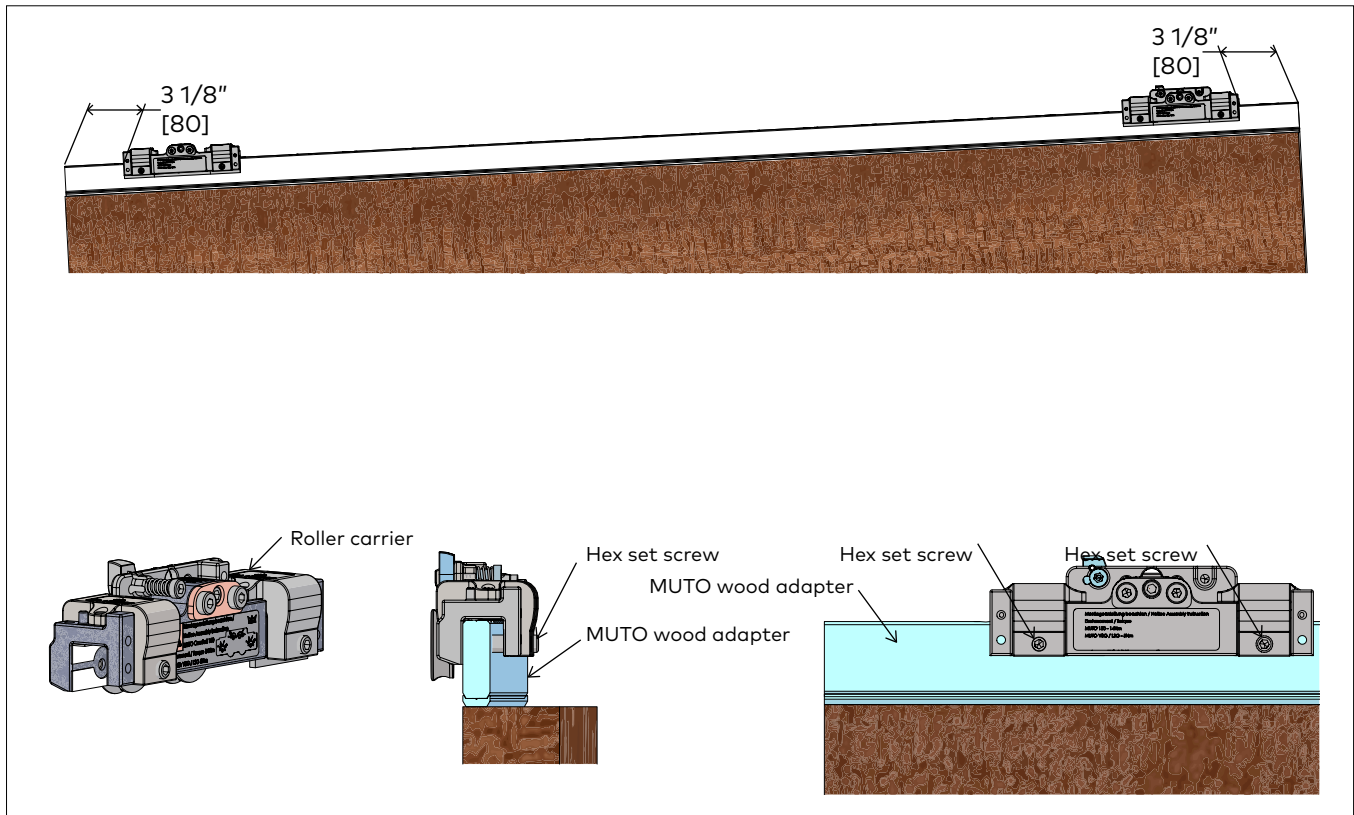


Slot for floor guide in bottom of wood door.

2.27.6 Wood door must have a 3/8" W x 1/2" H slot, centered in the bottom of the door and running the length of the door. Reference Para. 2.35.

2.28 Install roller carriers on wood door adapter

Fig. 27



Install roller carriers on door wood adapter

⚠ ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.

- 2.28.1 Slide roller carriers onto wood door adapter to dimension in Fig 27.
- 2.28.2 Secure roller carriers to glass tightening the two hex set screws using appropriate-size hex key at 10 ft lbs [14Nm].

2.29 Install DORMOTION start/stop

Fig. 28

⚠ PRODUCT SHIPPED WITH 7/8" [22] PIN INSTALLED. PIN CAN BE CHANGED TO 1" [25] IF NECESSARY.

Torque	
Set screws	3 ft lbs [3 Nm]

NOTE: Determine a pin length based upon how square and plumb the opening is.

- 2.29.1 If required, change pin in start/stop assembly.
- Remove hex screws.
 - Remove existing pin and plate.
 - Swap in appropriate pin and plate.
 - Replace hex screws.

2.29.2 Slide start/stop onto glass.

2.29.3 Center equally between the carriers.

2.29.4 Slide glass gasket between start/stop and glass.

NOTE: Orient with gasket facing glass.

2.29.5 Secure start/stop via set screws.

2.30 Disengage anti-jump

Fig. 29

➔

NOTE: Anti-jump shipped engaged.

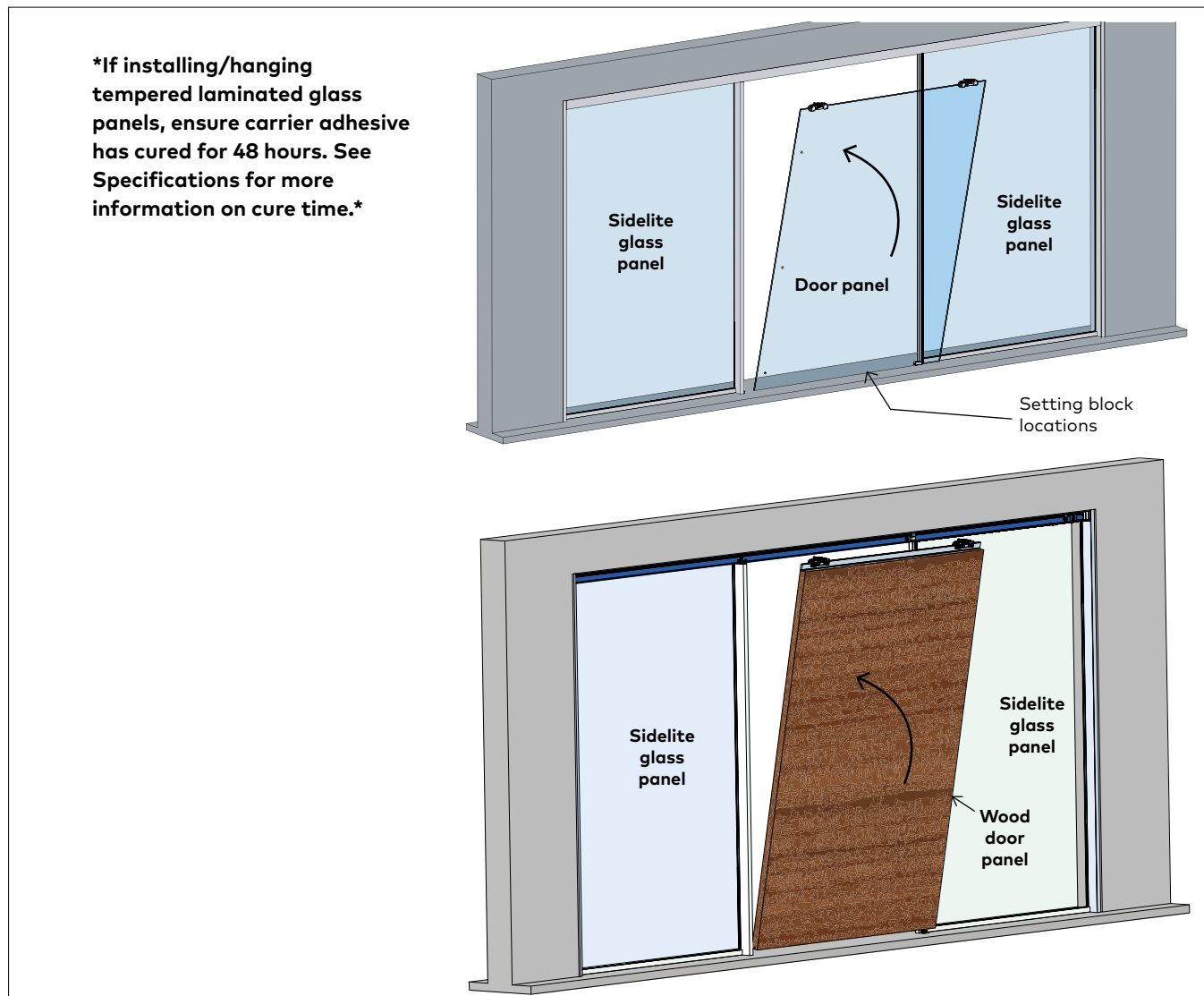
Hex key size	
XL150	4mm

2.30.1 Disengage the anti-jump on roller carrier.

NOTE: Using the appropriate-size hex key, push anti-jump adjustment screw IN and turn **COUNTER-CLOCKWISE** 90° to **disengage** anti-jump.

2.31 Install glass/rollers or wood door/rollers on track

Fig. 30



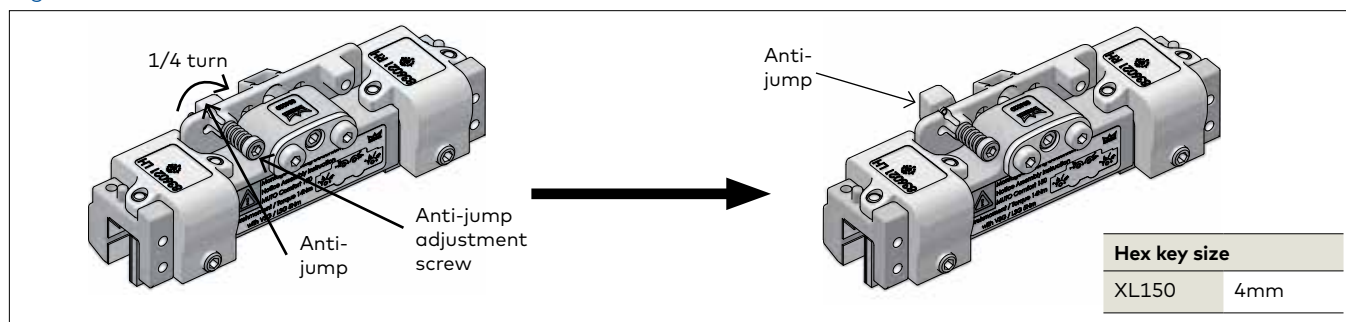
⚠ ENSURE ROLLERS AND TRACK ARE FREE OF DEBRIS.

2.31.1 Place glass or wood door on setting blocks on floor for stability.

2.31.2 Tip glass and rollers or wood door and rollers upward and rest rollers on track.

2.32 Engage anti-jump

Fig. 31

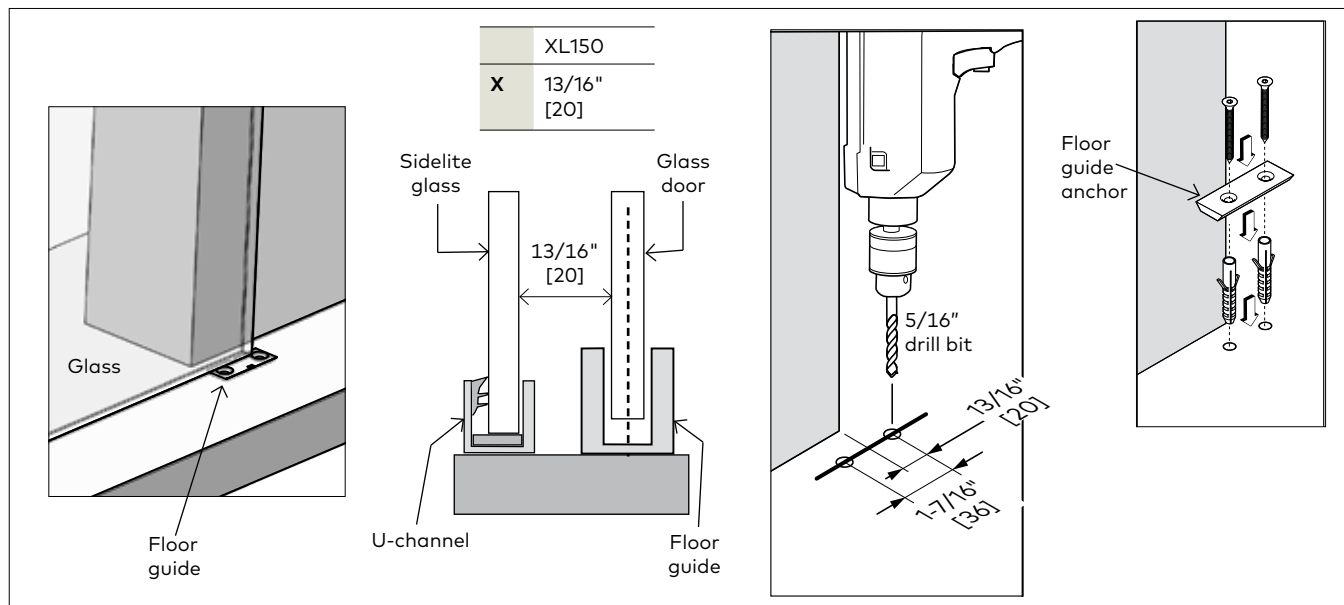


2.32.1 Engage anti-jump on roller carrier.

2.32.1 Using appropriate-size hex key, push anti-jump adjustment screw IN and turn **CLOCKWISE** 90° to **engage** anti-jump.

2.33 Install floor guide for glass door

Fig. 32



2.33.1 Align centerline of glass with centerline of floor guide.

2.33.2 Be sure the glass is plumb.

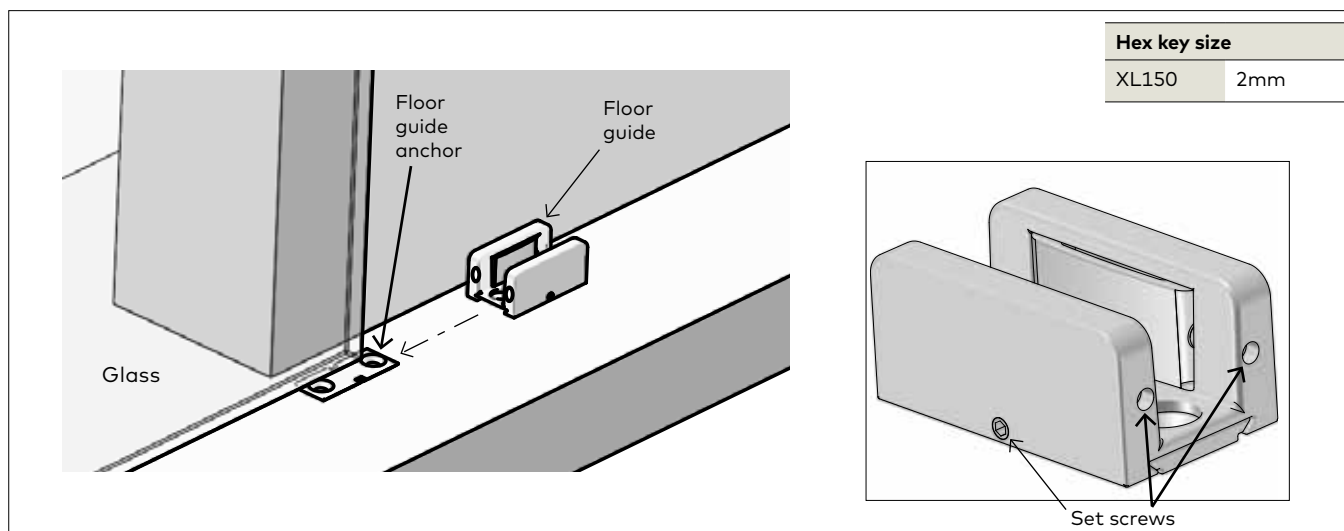
2.33.3 Mark appropriate floor guide measurements.

2.33.4 Carefully and gently push door slightly out of the way to allow for room to secure floor guide.

2.33.5 Pre-drill into mounting surface using a 5/16" drill bit.

2.33.6 Secure floor guide anchor with included fasteners.

Fig. 33



2.33.7 Slide floor guide over floor guide anchor and tighten with set screws.

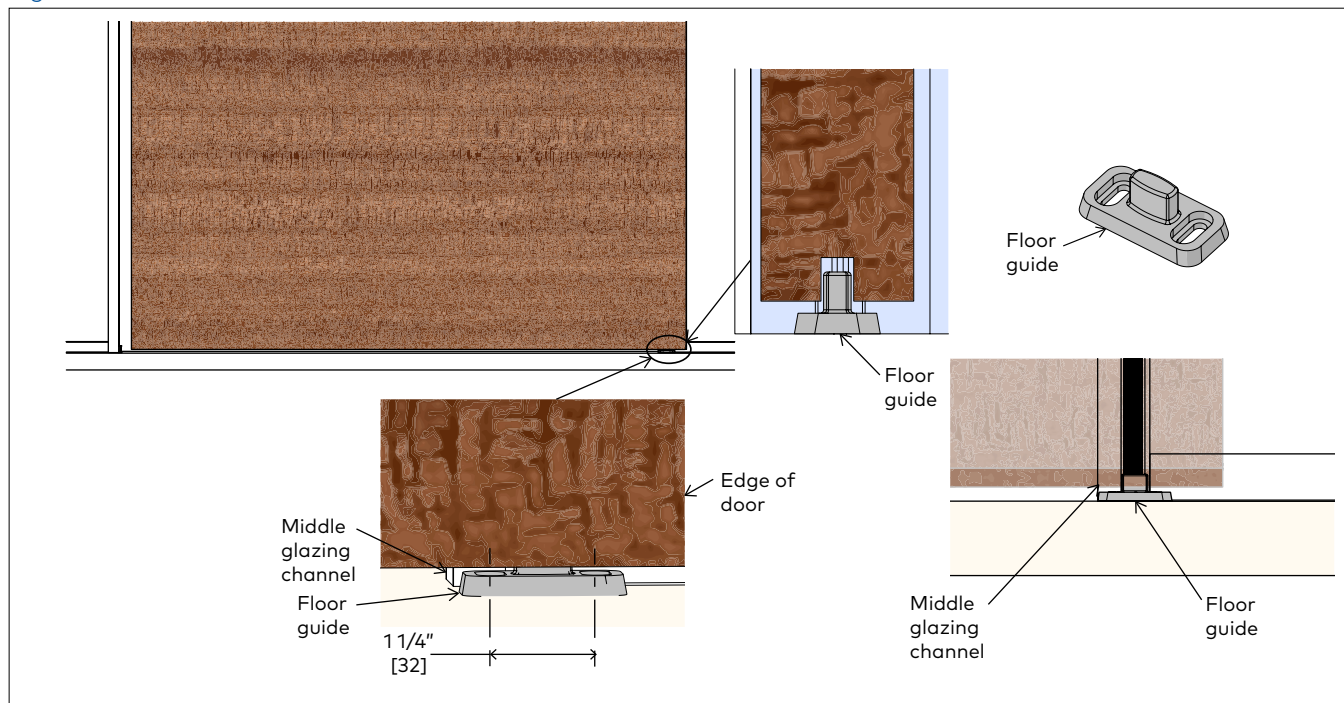
2.33.8 Remove setting blocks.

NOTE: Be sure glass is centered in floor guide.

2.33.9 Adjust using set screws.

2.34 Install floor guide for wood door

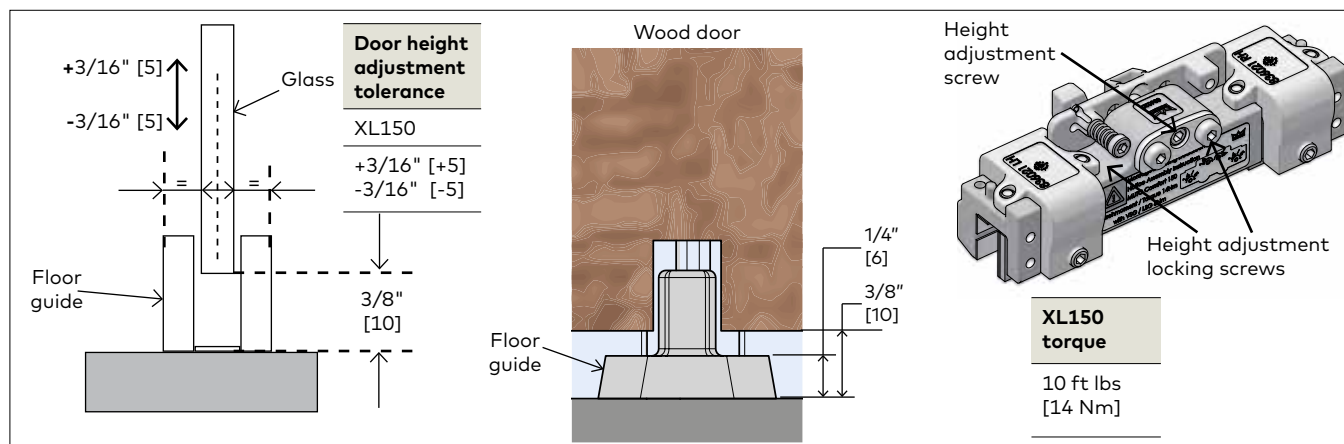
Fig. 34



- 2.34.1 Align floor guide with edge of middle glazing channel.
- 2.34.2 Align centerline of wood door with centerline of floor guide.
- 2.34.3 Be sure the wood door is plumb.
- 2.34.4 Mark two mounting hole locations in floor guide.
- 2.34.5 Carefully and gently push door slightly out of the way to allow for room to secure floor guide.**
- 2.34.6 Pre-drill into mounting surface using a drill bit based on selected fasteners.
- 2.34.7 Secure floor guide to floor using appropriate fasteners.

2.35 Adjusting the door height – glass or wood door

Fig. 35

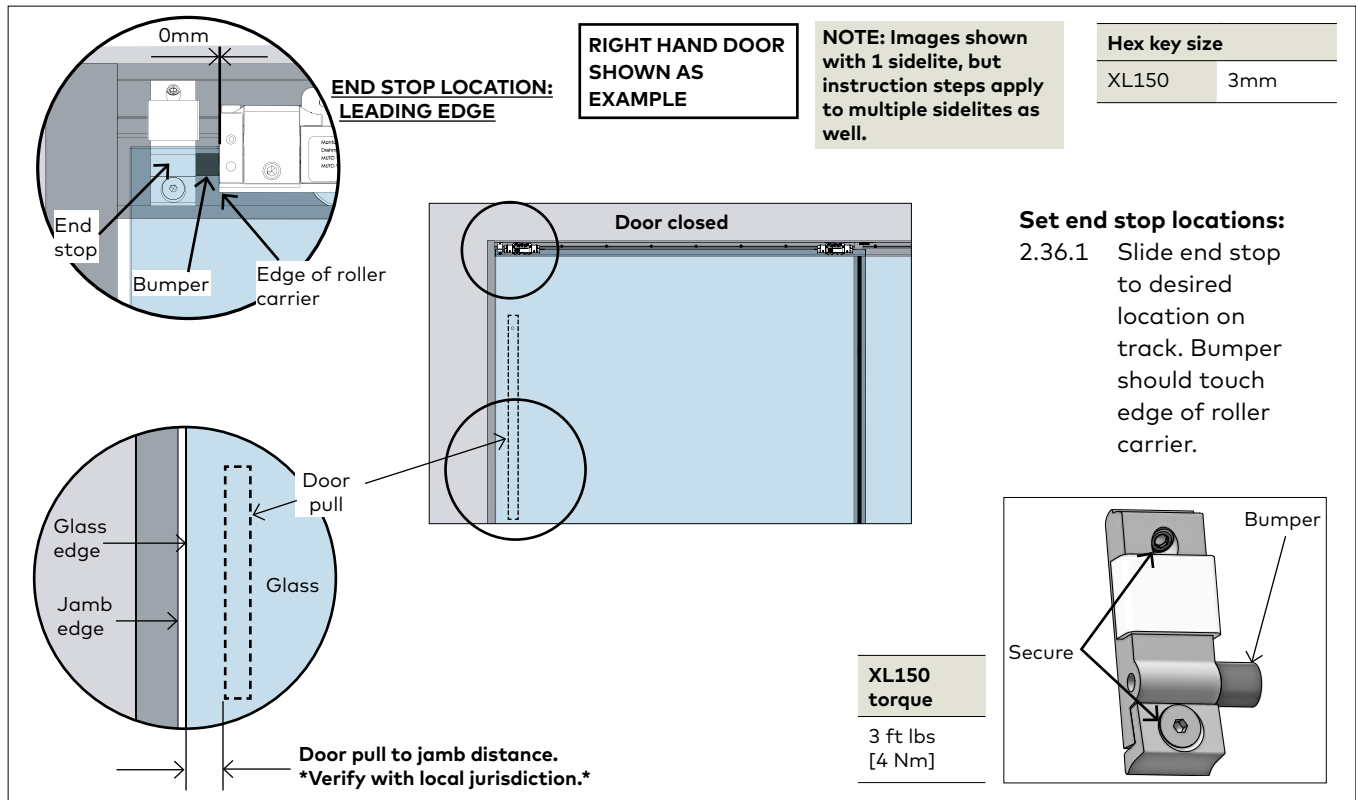


- 2.35.1 Set height of glass or wood door.
 - 2.35.2 Loosen height adjustment locking screws of carrier.
 - 2.35.3 Using appropriate-size hex key, turn height adjustment screw **CLOCKWISE** or **COUNTER-CLOCKWISE** to raise or lower glass or wood door.
- NOTE: Be sure glass or wood door is level during this adjustment.**

Hex key size	
XL150	4mm

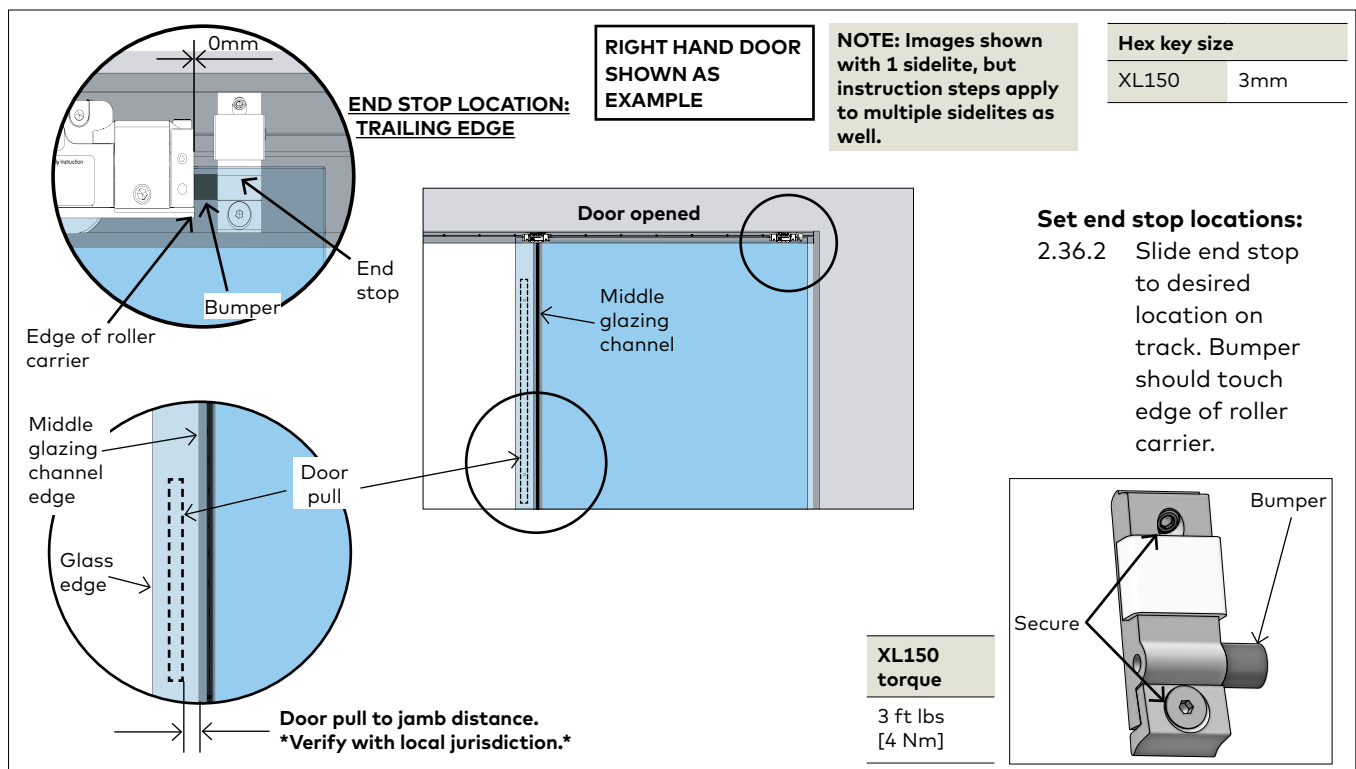
2.36 Adjust end stop locations: LEADING end stop

Fig. 36



Adjust end stop locations: TRAILING end stop

Fig. 36.1



2.37 Install DORMOTION units

Fig. 37

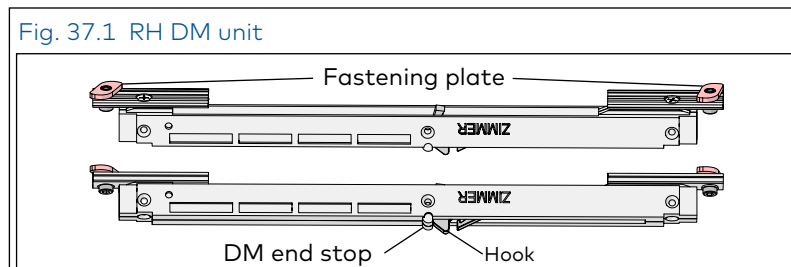


Fig. 37.2 RH DM unit fastening plates rotated

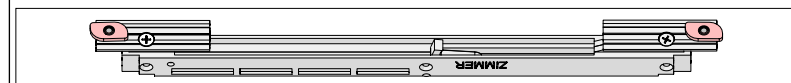


Fig. 37.3 RH DM unit inserted in track

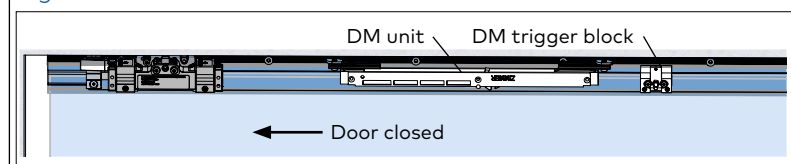


Fig. 37.4 DM unit hook positioned in trigger

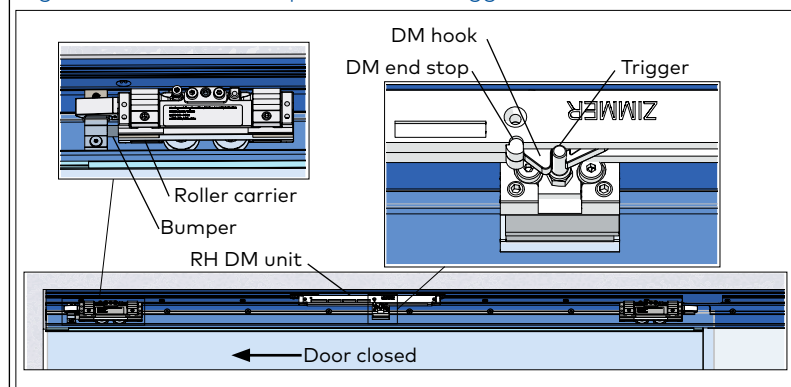


Fig. 37.5 DM unit end stop and hook separation adjustment

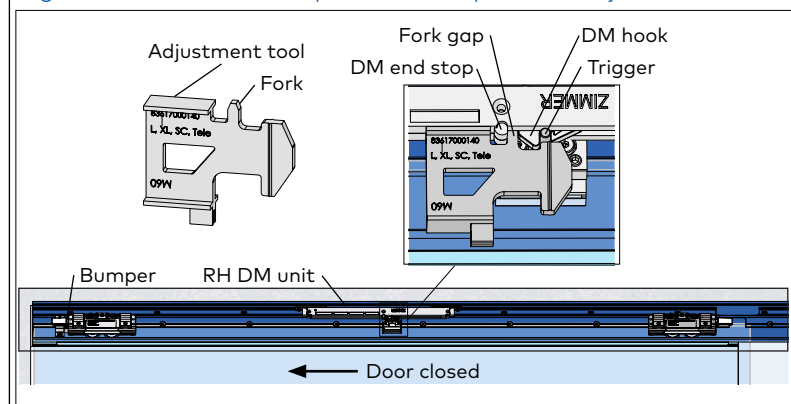
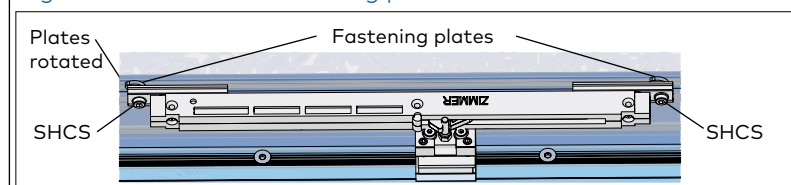


Fig. 37.6 RH DM unit fastening plates secured in track



RH Dormotion -door closed

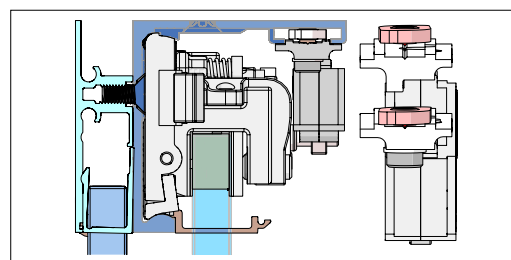
2.37.1 Rotate RH DM fastening plates.

- Using 4 mm hex key, loosen fastening plate hex screws.
- Rotate fastening plates until they are parallel to the DM unit (Fig. 37.2)
- Snug hex screws.

2.37.2 Move door to close position.

- For installation of RH DM unit, door must be in the closed position against bumper.

Fig. 37.7 RH DM unit aligned in track



2.37.3 Align DM unit in track, engage DM hook in DM trigger.

- Align DM unit in track (Fig. 37.7).
- Slide DM unit over the DM trigger block until the DM hook engages the DM trigger (Fig. 37.4)

2.37.4 Use adjustment tool to set DM unit final position.

- Place adjustment tool flat against DM unit with fork between DM hook and DM end stop (Fig. 37.5).
- Slide DM unit over until hook and DM end stop are against the fork. This sets 5 mm gap (fork gap).
- **Trigger height:** Adjust so trigger sets on top of adjustment tool (Para. 2.38).

2.37.5 Secure the DM unit in position.

- NOTE: Insure door is fully closed against bumper before performing this step.
- Using 4 mm hex key, tighten DM unit fastening plate socket head cap screws. Fastening plates must engage the track (Fig. 37.6 and .8).

Torque

Socket head cap screws 3 ft lbs [4 Nm]

Fig. 37.8 RH DM unit installed in track

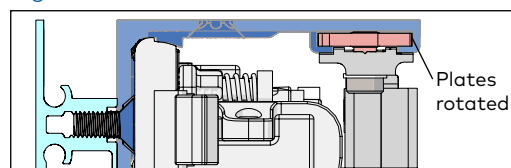


Fig. 37 (Con't)

Fig. 37.9 LH DM unit

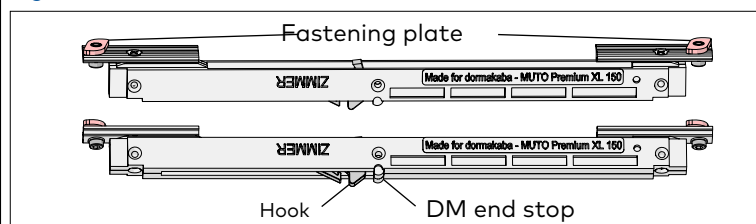


Fig. 37.10 LH DM unit fastening plates rotated

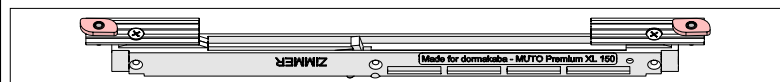


Fig. 37.11 LH DM unit inserted in track

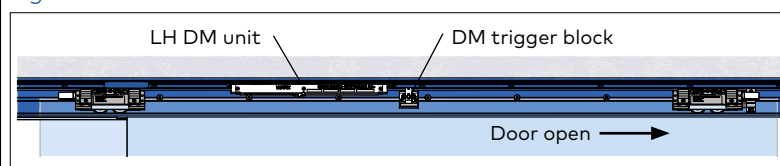


Fig. 37.12 DM unit hook positioned in trigger

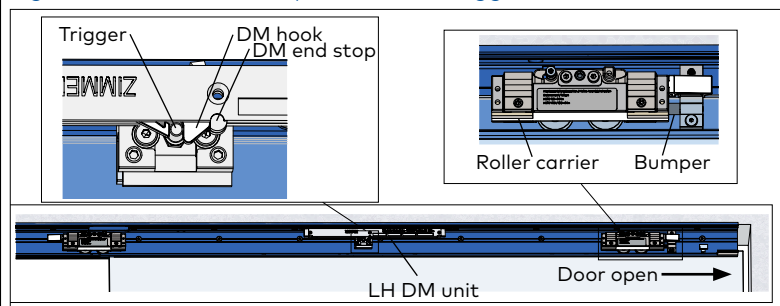


Fig. 37.13 DM unit end stop and hook separation adjustment

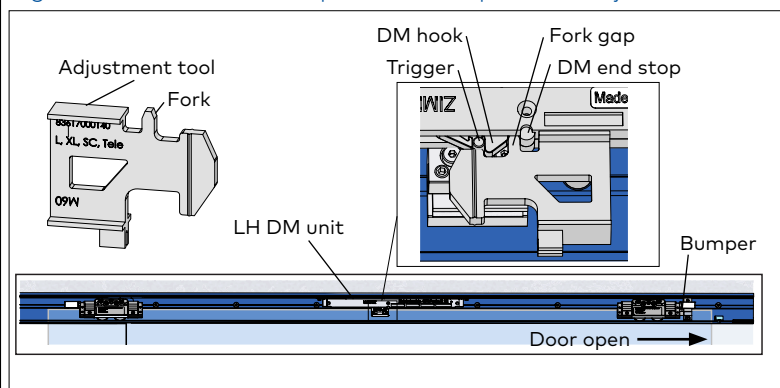
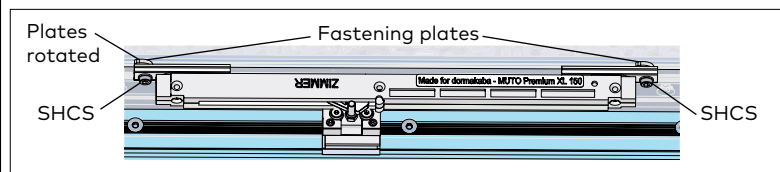


Fig. 37.14 LH DM unit fastening plates secured in track



LH Dormotion -door open

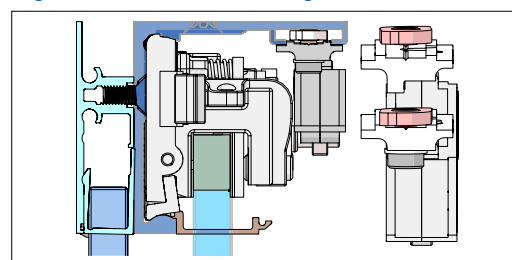
2.37.6 Rotate DM fastening plates.

- Using 4 mm hex key, loosen fastening plate hex screws.
- Rotate fastening plates until they are parallel to the DM unit (Fig. 37.10)
- Snug hex screws.

2.37.7 Move door to open position.

- For installation of LH DM unit, door must be in the open position against bumper.

Fig. 37.15 LH DM unit aligned in track



2.37.8 Align DM unit in track, engage DM hook in DM trigger.

- Align DM unit in track (Fig. 37.15).
- Slide DM unit over the DM trigger block until the DM hook engages the DM trigger (Fig. 37.12)

2.37.9 Set DM unit final position.

- Place adjustment tool flat against DM unit with fork between DM hook and DM end stop (Fig. 37.13).
- Slide DM unit over until hook and DM end stop are against the fork. This sets 5 mm gap (fork gap).
- **Trigger height:** Adjust so trigger sets on top of adjustment tool (Para. 2.38).

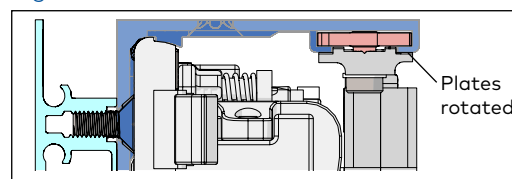
2.37.10 Secure the DM unit in position.

- NOTE: Insure door is fully open against bumper before performing this step.
- Using 4 mm hex key, tighten DM unit fastening plate socket head cap screws . Fastening plates must engage the track (Fig. 37.16).

Torque

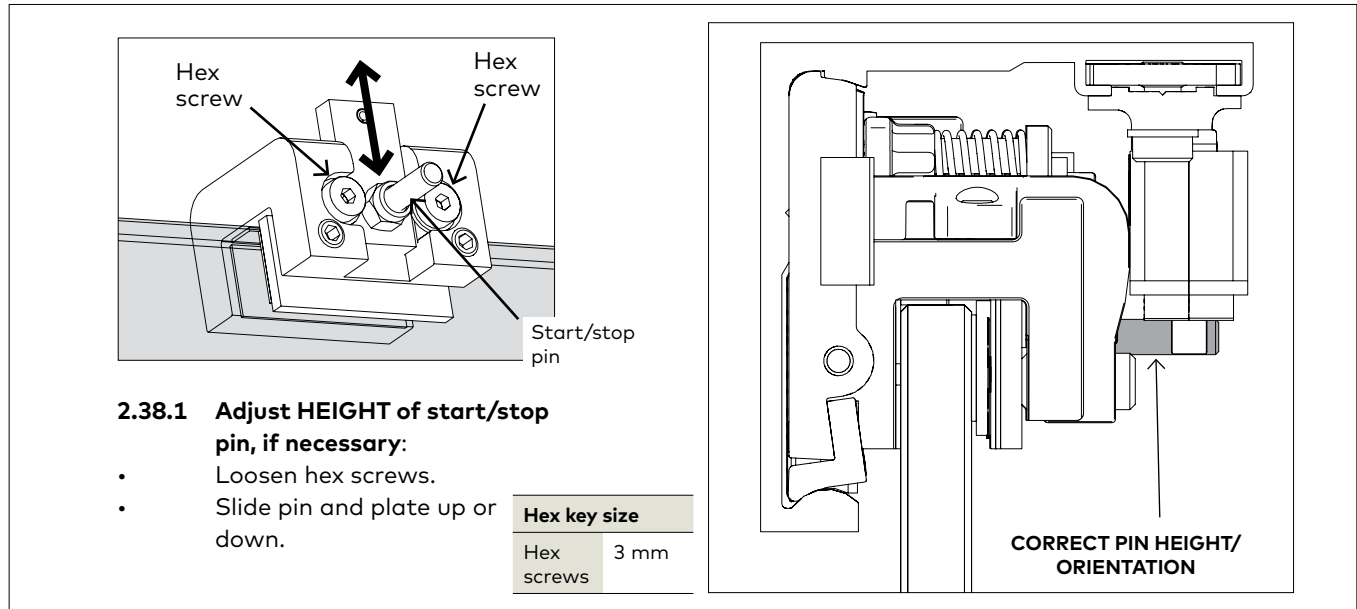
Socket head cap screws 3 ft lbs [4 Nm]

Fig. 37.16 LH DM unit installed in track



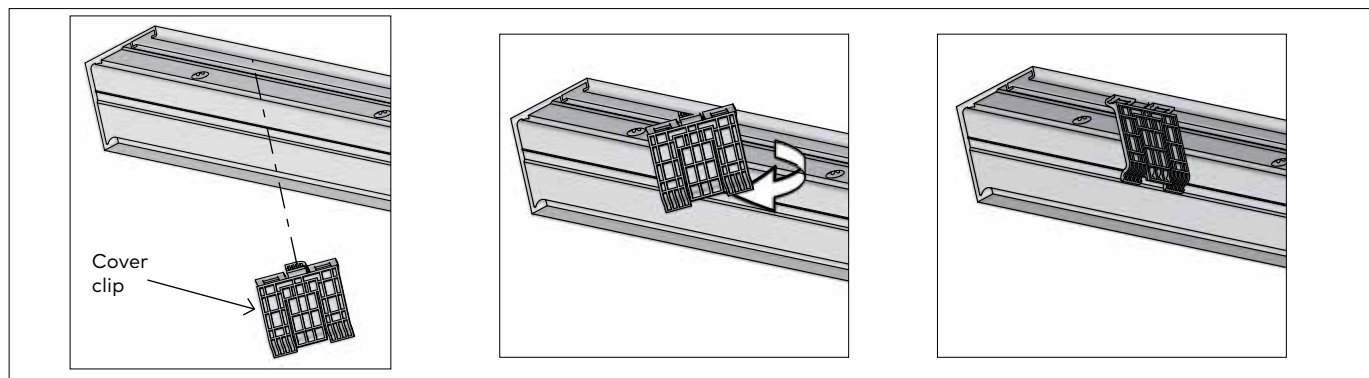
2.38 Adjust start/stop pin height (if necessary) (for applications with DORMOTION only)

Fig. 38



2.39 Insert cover clips

Fig. 39

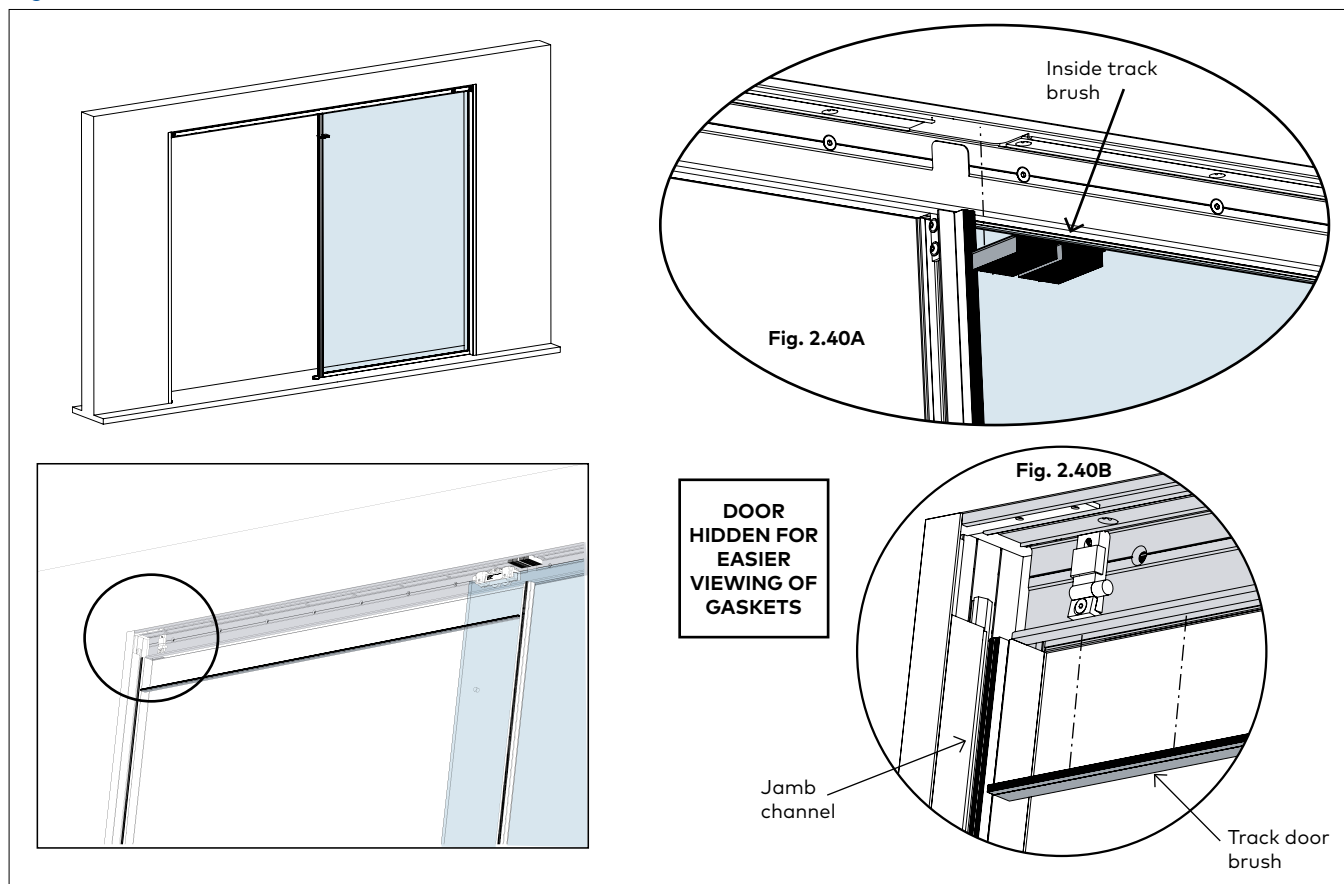


2.39.1 Insert cover clips into track. (One clip per foot)

2.39.2 Insert perpendicular to track, and turn **CLOCKWISE** to snap into place.

2.40 Secure track brushes

Fig. 40



NOTE: SOME GASKETS MAY BE PREINSTALLED BY FACTORY DEPENDING UPON APPLICATION TYPE.

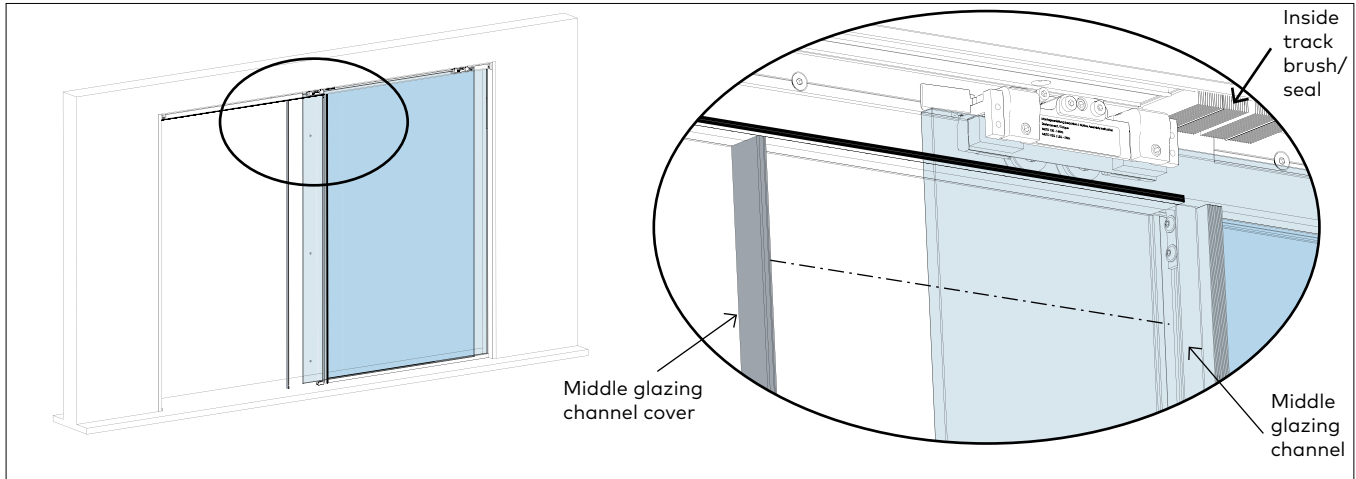
2.40.1 Remove adhesive and press indoor track brush into groove in track (Fig. 2.40A)

NOTE: Cut to size: 2" x 2-3/8" [50 x 60]

2.40.2 Remove adhesive and press track door brush along bottom edge of MUTO track on door panel side of opening (Fig. 2.40B).

2.41 Install middle glazing channel cover

Fig. 41

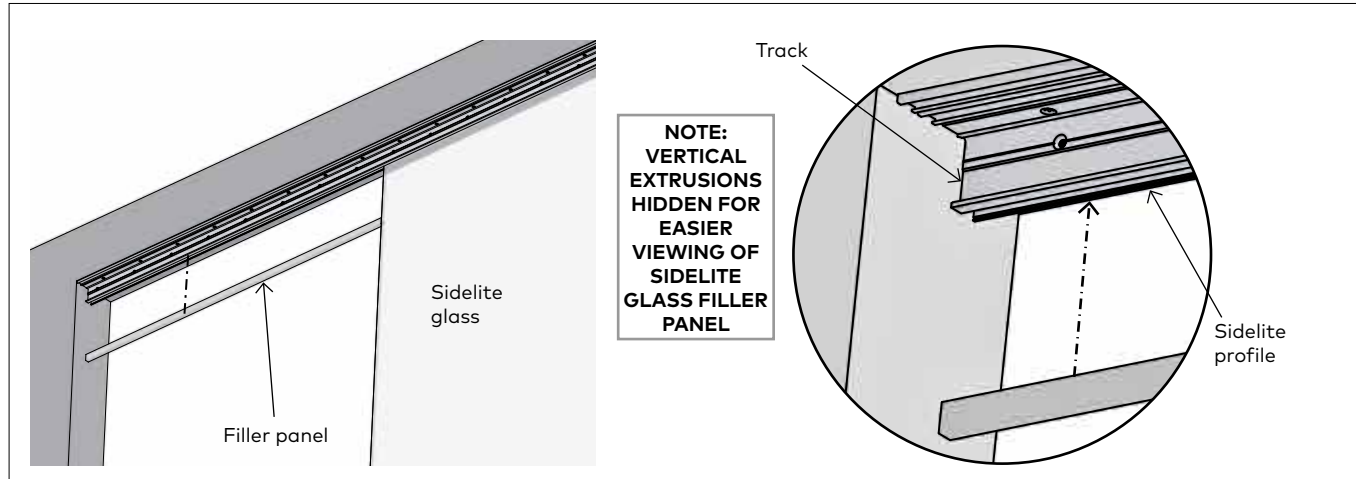


2.41.1 If necessary, cut middle glazing channel to length:
Length = daylight opening - 2-3/4" [70]

2.41.2 Snap the middle glazing channel cover into the middle glazing channel.

2.42 Installing sidelite glass filler panel

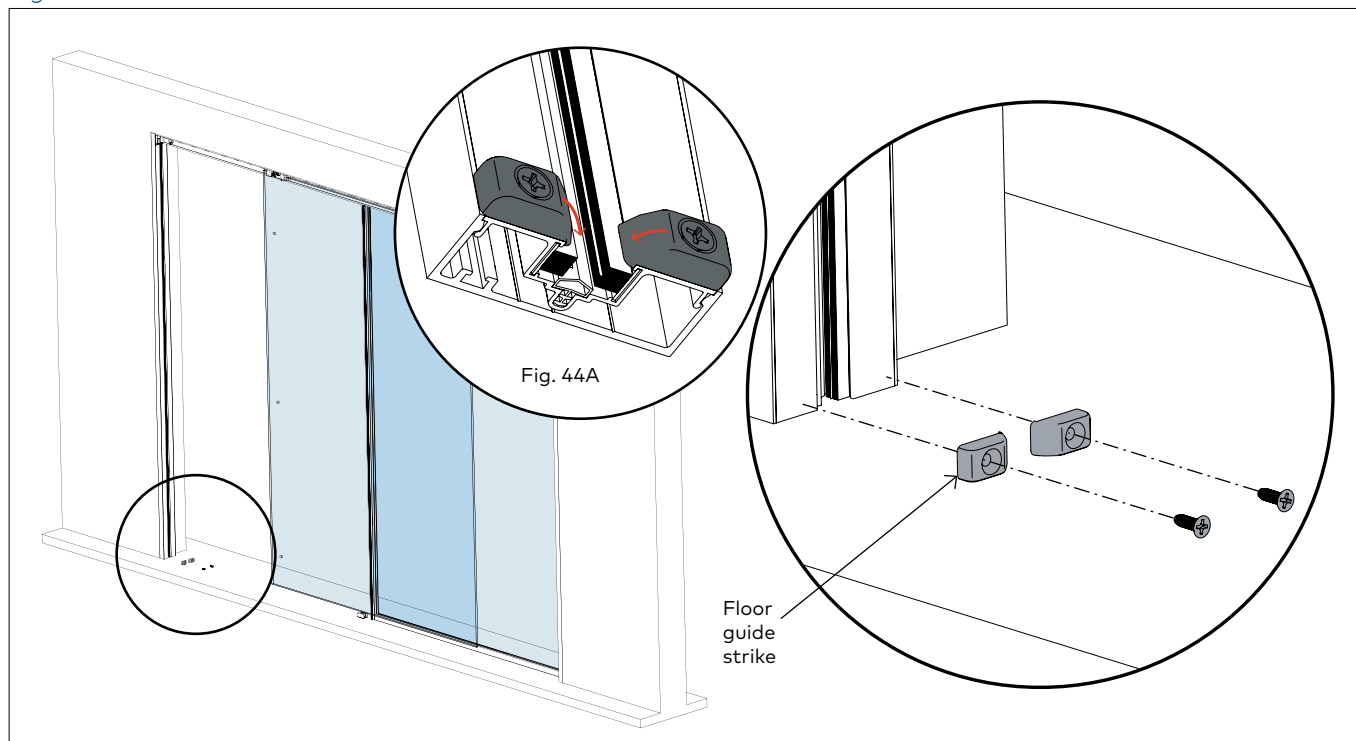
Fig. 42



- 2.42.1 Fit filler panel into gap of the empty door panel section in sidelite profile.

2.43 Install floor guide strike – glass door

Fig. 43

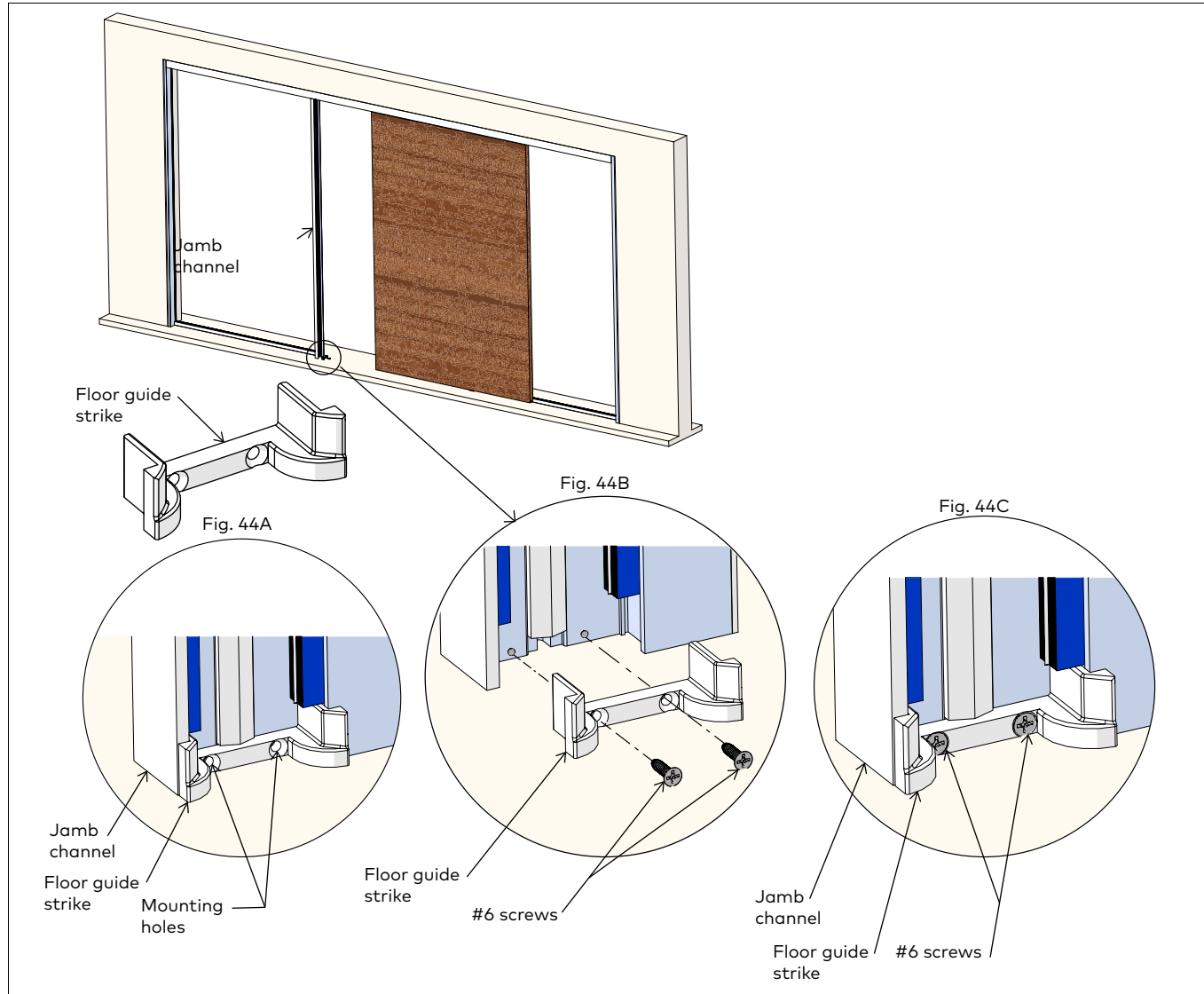


- 2.43.1 Align strike with tapered sides facing inward towards each other. See Figure 44A above.
- 2.43.2 Mark and drill holes in the jamb track.
- Use No 1. [.228"] drill bit.

- 2.43.3 Secure floor guide strike to jamb track.
- Use included fasteners [1/4-20 x 3/4" flat head thread cutting screw].

2.44 Install floor guide strike – wood door

Fig. 44



2.44.1 Align floor guide strike in jamb channel (Fig. 45A).

2.44.2 Mark and drill two clearance holes in the jamb channel cover.

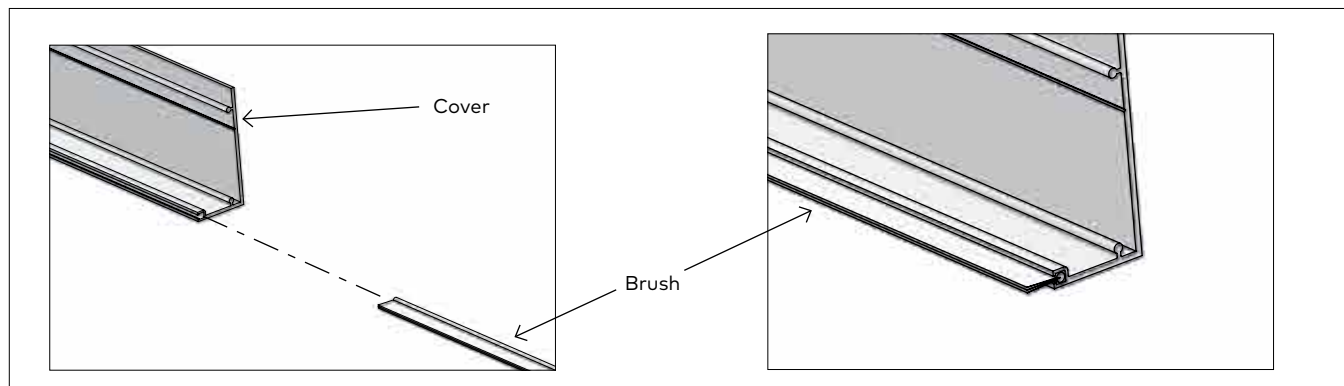
- Use #36(0.107) drill.

2.44.3 Secure floor guide strike to jamb channel.

- Use included fasteners [6-32 x 1/2" flat head thread cutting screw].

2.45 Install brush profile

Fig. 45

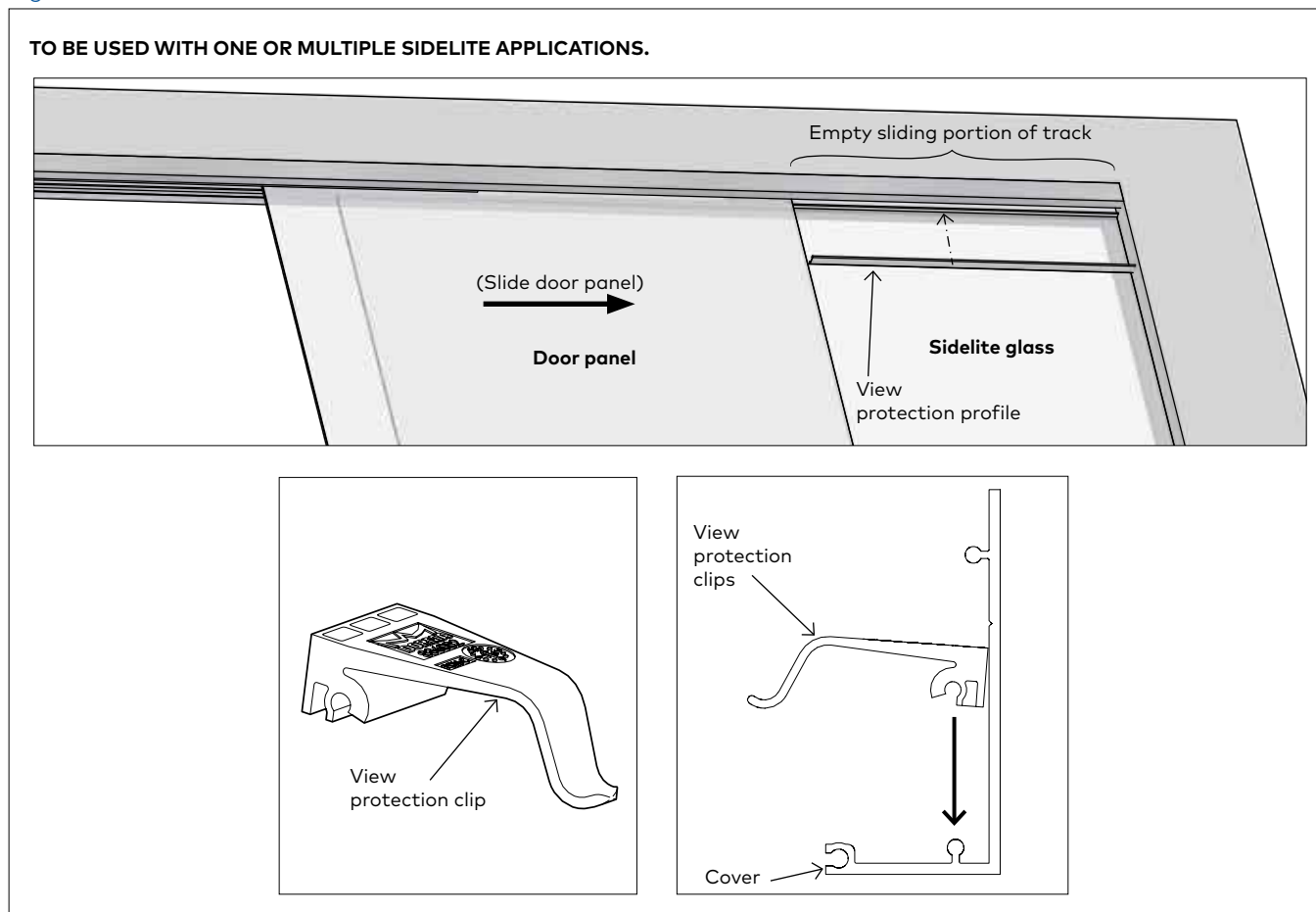


NOTE: SOME GASKETS MAY BE PREINSTALLED BY FACTORY DEPENDING UPON APPLICATION TYPE.

2.45.1 Measure and cut brush to appropriate length.
Length = cover length - view protection profile length

2.45.2 Slide brush into cover.

Fig. 46



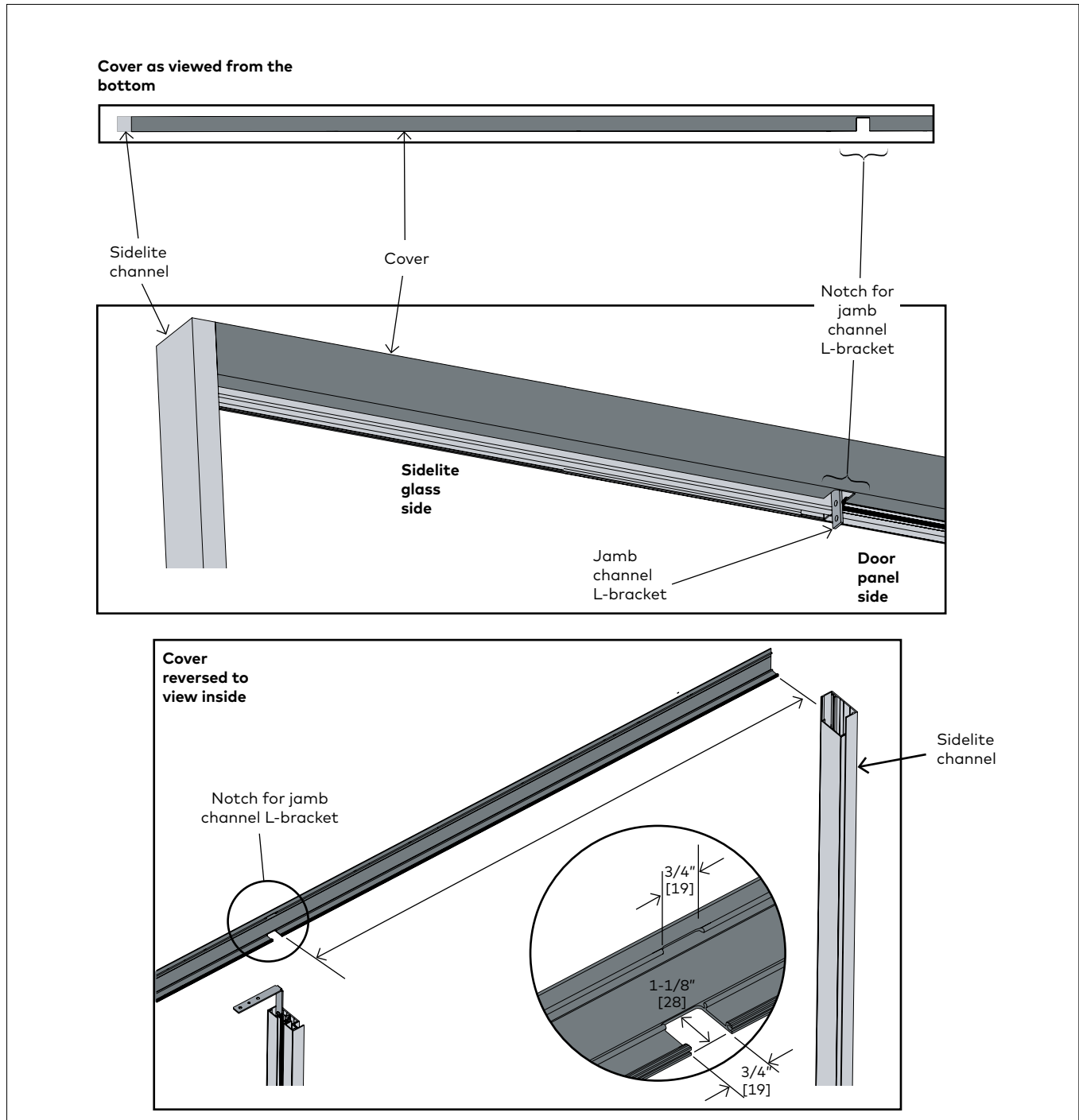
- 2.46.1 Slide door open until it meets the end stop.
- 2.46.2 Measure and cut view protection profile to fit into empty sliding portion of track - 3/16" [5].
- 2.46.3 Snap view protection clips onto inside of cover as shown.

2.46.4 Use minimum 1 clip per foot of profile.

Exception: If profile is minimum of 1 foot in length, use 2 clips.

2.46 Prepare cover for installation

Fig. 47



- 2.46.1 Prepare cover for installation by cutting notch out to clear jamb channel L-bracket.
- 2.46.2 Measure from sidelite channel to outside edge of L-bracket.

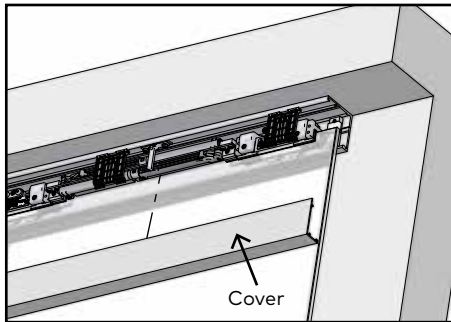
- 2.46.3 Cut a notch into the inside of the cover 1-1/8" [29]x 3/4" [19]. See image above for reference.

NOTE: Ok to cut through brush profile.

- 2.46.4 Ensure notch is centered around jamb channel L-bracket.

2.47 Install cover and view protection profile

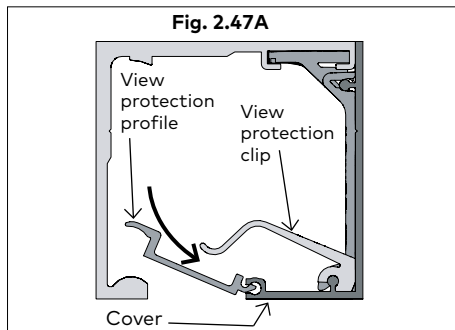
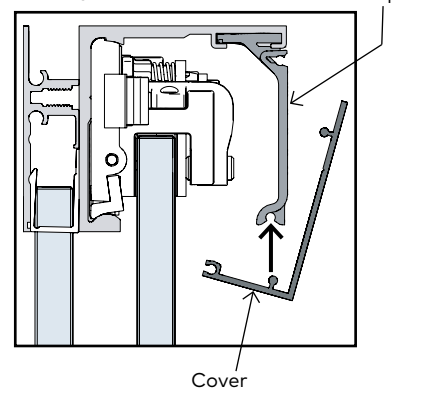
Fig. 48



2.47.1 Secure cover to clips and snap into place.

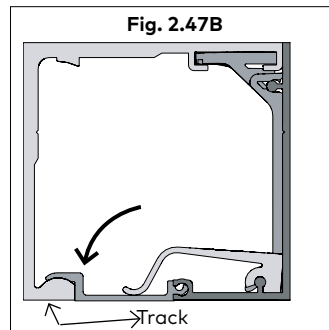
NOTE: Roll cover from the bottom upwards.
Ensure the bottom of the cover is supported by the groove in the cover clip.

View protection clip and profile hidden for easier viewing of cover installation.

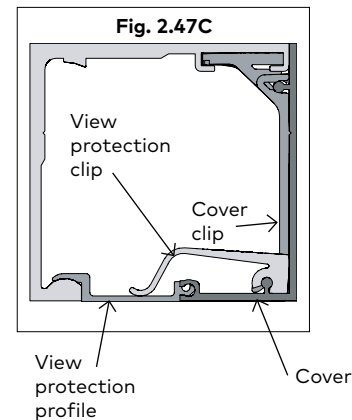


2.47.2 Snap view protection clip onto inside of cover. Fig. 2.47A

2.47.3 Tip view protection profile up into track and snap down into cover. Fig. 2.47A



2.47.4 Snap down onto track as shown. Fig. 2.47B





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