

Muto Premium XL150/80 Muto Comfort L80

Ceiling mount with Dormotion with Sidelites (Glass)

Installation instructions

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1 Technical specifications

1.1 Overview

These instructions are for installation of MUTO PREMIUM and COMFORT sliding door system XL150/80 / L80 with Sidelites for the following mounting and style versions:

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 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.

1.1.6

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.



TIPS AND RECOMMENDATIONS

Information note



CLOSING EDGE

1.1.7 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 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.)

1.1.8 **Disposal**

Disposal in accordance with local, state and national regulations.

1.2 Specifications - technical data

		Single Door			Double Door	Double Door		
		XL150	XL80	L80	XL150	XL80	L80	
Ceiling mount	Door leaf weight lbs [kg] *	≤330lbs [≤150]	≤176lbs [≤80]	≤176lbs [≤80]	2 x ≤330lbs [2 x ≤150]	2 x ≤176lbs [2 x ≤80]	2 x ≤176lbs [2 x ≤80]	
	* Including weight of auxiliary	hardware.						

^{1.3} Tempered laminate glass (TLG) and adhesive specifications

Required parts for laminate glass with MUTO System (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, 5.3mm³	934.805	Pk of 4	4 nozzles per 1 tube of adhesive
MUTO TLG gasket set	807.640	1 set	
Handling time frame	Function		Time
	Working life (time between application and clamping of carrier)		5 minutes @ 75°F
	Handling strength	1	20 minutes @ 73°F or more
	Full cure time (no. not recommended as been met)	rmal door usage d until full cure time	48 hours @ 73°F or more

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

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

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

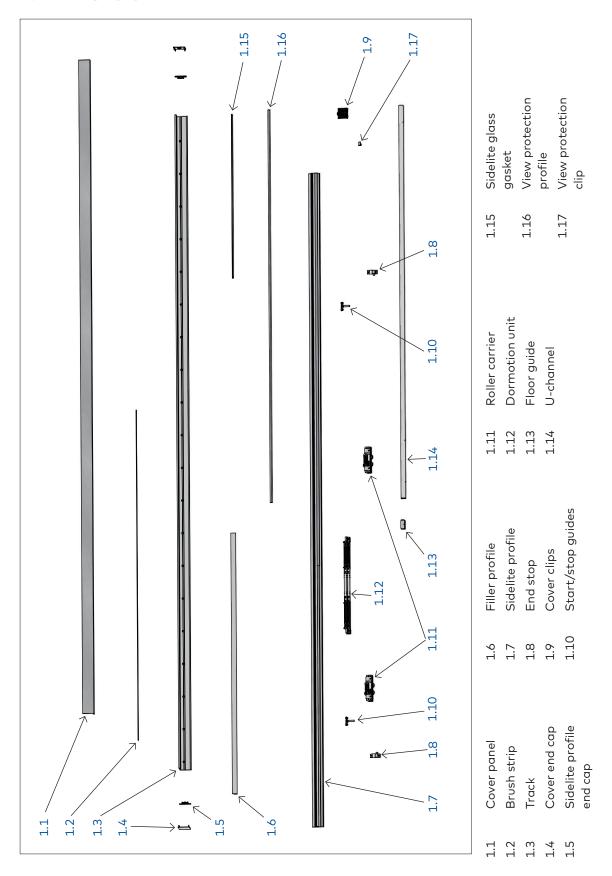
- 1.2 Never clamp metal glass fitting hardware directly to glass surface.
- 1.3 Never use clamping product on surfaces with self-cleaning coatings.

² Scotch-Weld™ EPX™ Plus II Applicator with 1:1 Plunger is a trademark of 3M.

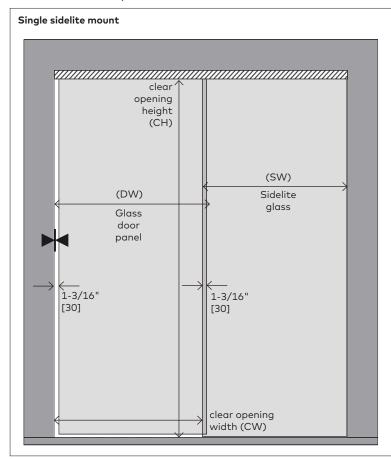
³ Scotch-Weld™ EPX™ Plus II Mixing Square Nozzle is a trademark of 3M.

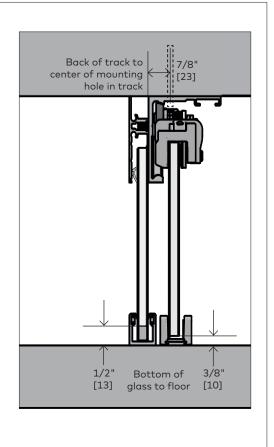
2 Installation instructions

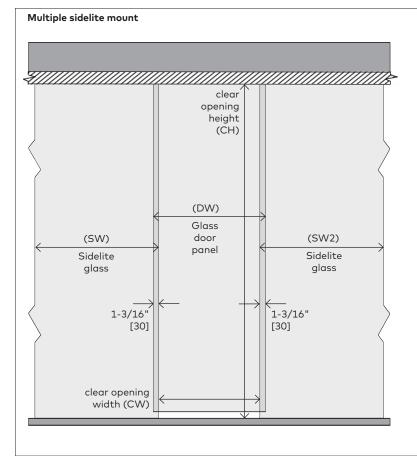
2.1 Overall

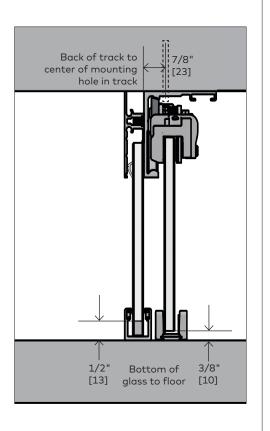


2.2 Door/wall dimentions









NOTE:

Overhead Reinforcement:

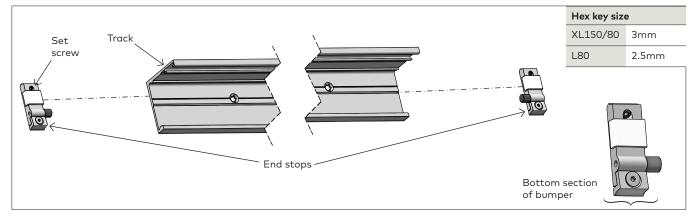
The overhead reinforcement must be a minimum of $\frac{1}{4}$ " [6] x 3" [76] steel angle, 16 gauge metal stud, or two pieces of 1 1/2" [38] thick wood blocking (double stacked), secured to studs or joists on a maximum 16" [406] centers for the length of the track. The overhead reinforcement may be flush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

2.3 Installing the end stops

Fig 1



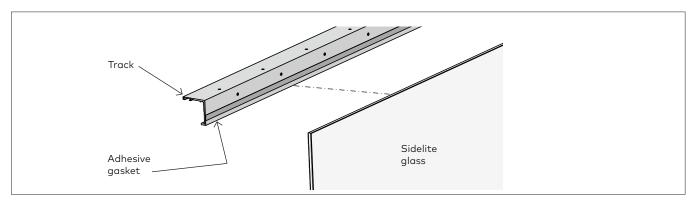
2.3.1 Slide bumper stops into each end of the track. NOTE: Loosen bottom section of end stop for easier install.

NOTE: FOR XL150 end stops, be sure set screw is flush with back of bumper.

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

2.4 Securing gasket to track

Fig 2



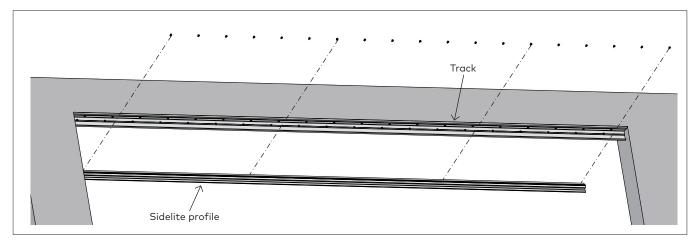
2.4.1 Ensure the track is cut to proper length.

NOTE: SEE DIMENSION INSTRUCTIONS ON PAGE 6.

- 2.4.2 Cut adhesive gasket equal to sidelite glass width.
- 2.4.3 Adhere gasket along bottom edge of back of track.

2.5 Securing track and sidelite section profile to mounting surface

Fig 3



- 2.5.1 Secure track to mounting surface.
- 2.5.2 Align predrilled holes in sidelite profile with track profile.

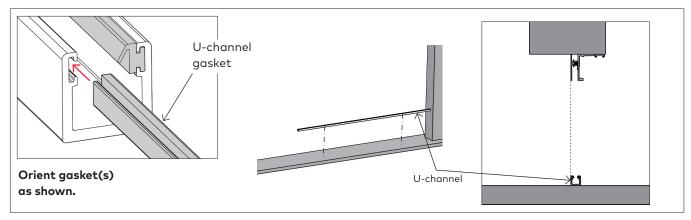
NOTE: Holes will be predrilled every 7-7/8" [200].

2.5.3 Secure with proper fasteners.

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

2.6 Installing U-channel for sidelite

Fig 4

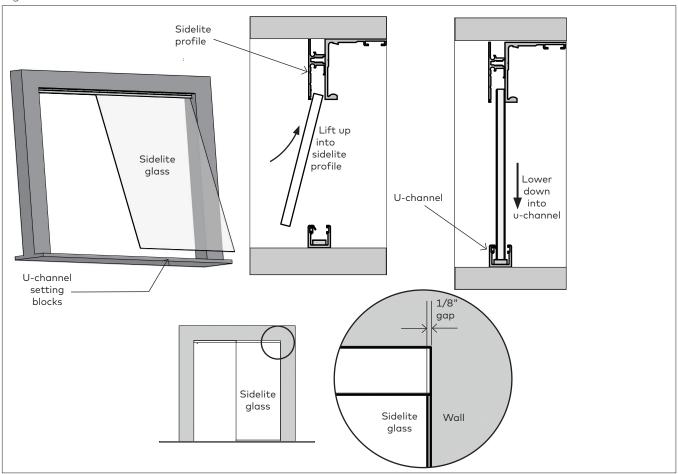


- 2.6.1 Install gaskets as shown. Trim to correct length.
- 2.6.2 Secure u-channel to floor using appropriate fasteners.

NOTE: Ensure u-channel is plumb and the back of the u-channel profile aligns with back of sidelite profile.

2.7 Installing sidelite glass

Fig 5

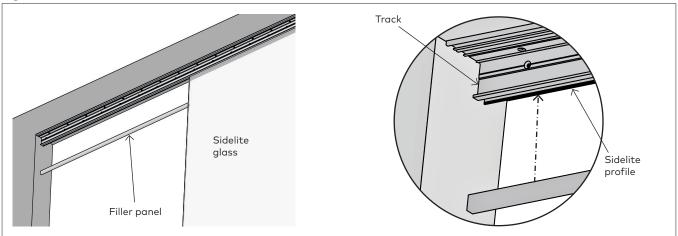


- 2.7.1 Place setting blocks into u-channel.
- 2.7.2 Spray inside of u-channel with glass cleaner.
- 2.7.3 Lift glass up and into sidelite profile.
- 2.7.4 Lower glass into u-channel.

- 2.7.5 Ensure there is 1/8" [3] gap between wall and edge of sidelite glass.
- 2.7.6 If using tempered laminated glass, gently press glass panel against u-channel gasket and dispense silicone along full length of non-gasket side of U-channel.

2.8 Installing sidelite glass filler panel

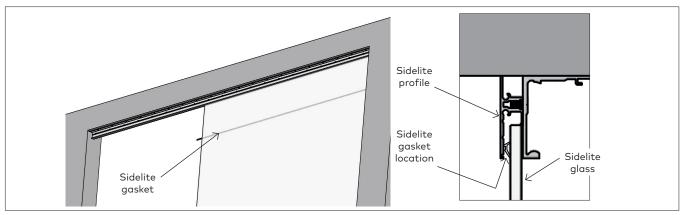
Fig 6



2.8.1 Fit filler panel in to gap of door panel section in sidelite profile.

2.9 Installing sidelite glass gasket

Fig 7

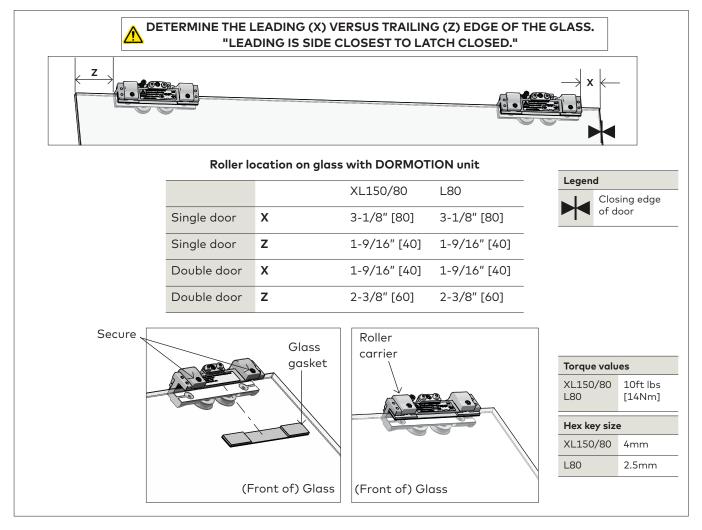


2.9.1 Cut gasket to length per chart above.

2.9.2 Press gasket in between sidelite glass and sidelite profile.

2.10A Installing the roller carriers: on monolithic glass ONLY

Fig 8





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.

2.10A.1 Slide roller carriers onto glass.

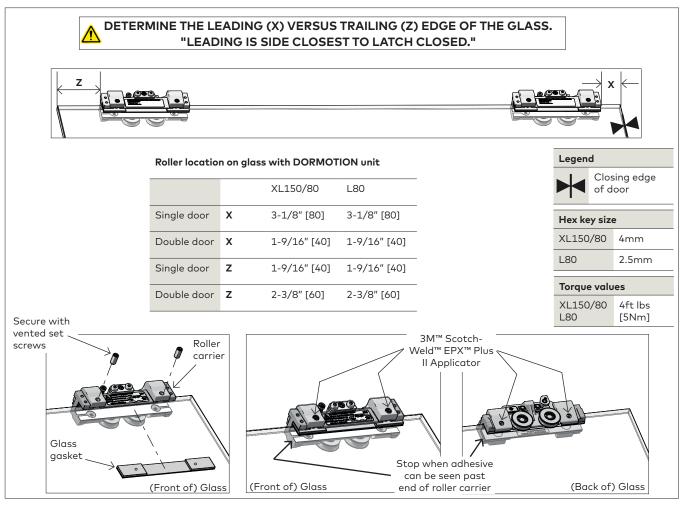
2.10A.2 Slide glass gasket and metal shim between glass and roller carrier.

NOTE: Orient gasket with rubber side facing the glass.

2.10A.3 Secure roller carriers to glass using appropriate-size hex key at 10 ft lbs [14 Nm].

2.10B Installing roller carriers: on tempered lamiate glass ONLY

Fig 9



 $ilde{\mathbb{M}}$ NOTE: THE RECOMMENDED ADHESIVE'S SET-UP TIME IS 20 MINUTES FOR THE DUO-PAK CARTRIDGES.

MOTE: 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.

MENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.

- 2.10B.1 Slide carriers onto glass.
- 2.10B.2 Replace existing gasket with TLG gasket.
- 2.10B.3 Slide laminated glass gasket and metal shim between glass and roller carrier.

NOTE: Orient gasket with rubber side facing the glass.

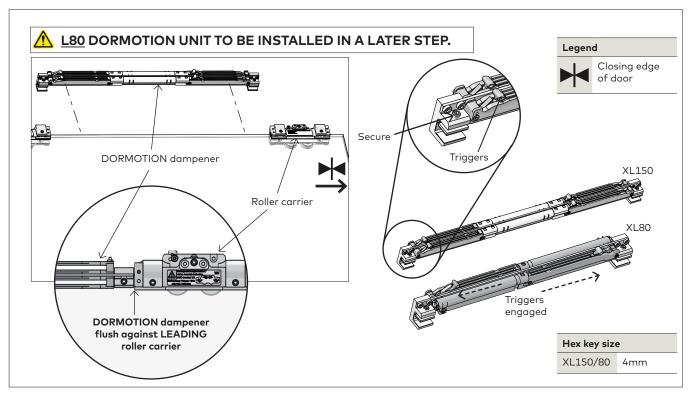
- 2.10B.4 Replace existing set screws with vented set screws.
- 2.10B.5 Tighten vented set screws at 4 ft lbs [5Nm].

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.

- 2.10B.6 Dispense adhesive into vented set screws on both sides of carrier.
- Stop application when adhesive can be seen past edge of roller carrier.
- <u>DO NOT WIPE</u> 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.

2.11 XL150/80 (ONLY): Install DORMOTION unit

Fig 10

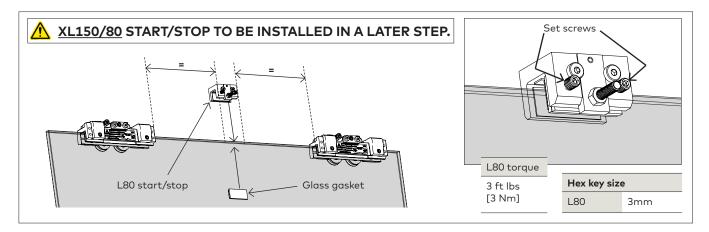


XL150/80 (ONLY):

- 2.11.1 Slide DORMOTION dampener onto glass.
- NOTE: Oriented with triggers facing outward.
- 2.11.2 Dampener must be flush against leading roller carrier.
- NOTE: Leading carrier is on side of glass closest to latch.
- 2.11.3 Secure dampener to glass using appropriatesize hex key.
- 2.11.4 **Engage triggers:** push out towards end of DORMOTION unit.

2.12 L80 (ONLY): Install DORMOTION start/stop

Fig 11



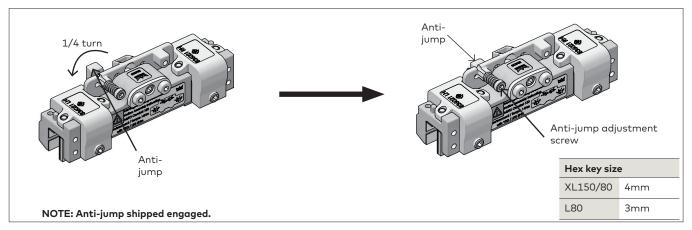
- 2.12.1 Slide L80 start/stop onto glass.
- 2.12.2 Center between the carriers.
- 2.12.3 Slide glass gasket between start/stop and glass.

NOTE: Orient with gasket facing glass.

2.12.4 Secure start/stop via set screws.

2.13 Disengaging the anti-jump

Fig 12



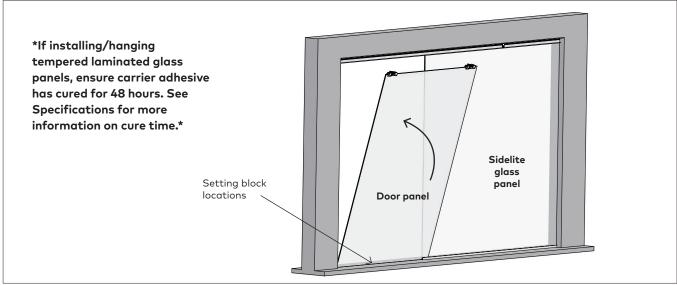
2.13.1 Disengage the anti-jump on roller carrier.

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

2.14 Install glass/rollers in track

Fig 13

14

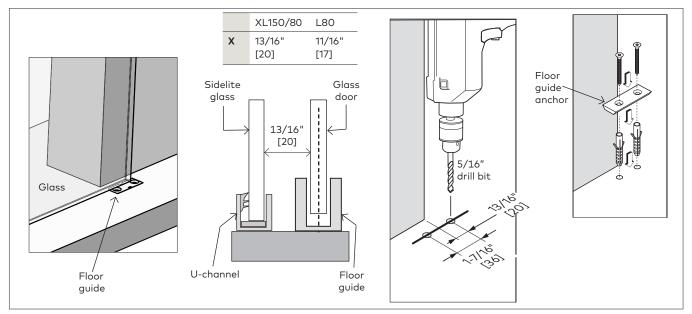


⚠ ENSURE ROLLERS AND TRACK ARE FREE OF DEBRIS.

- 2.14.1 Place glass on setting blocks on floor for stability.
- 2.14.2 Tip glass and rollers upward and rest rollers on track.

2.15 Install floor guide

Fig 14



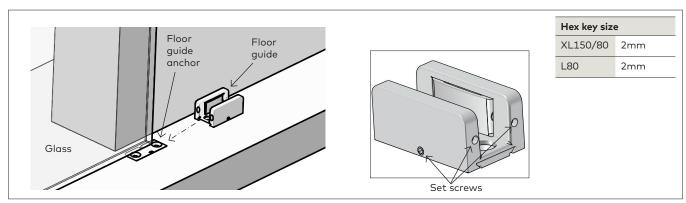
\bigwedge

ANTI-JUMP IS DISENGAGED!

- 2.15.1 Align centerline of glass with centerline of floor guide.
- 2.15.2 Be sure the glass is plumb.
- 2.15.3 Mark appropriate floor guide measurements.
- 2.15.4 TEMPORARILY REMOVE GLASS AND ROLLERS FROM TRACK.
- 2.15.5 Pre-drill into mounting surface using a 5/16" drill bit.
- 2.15.6 Secure floor guide anchor with included fasteners.

2.16 Install floor guide: continued

Fig 15



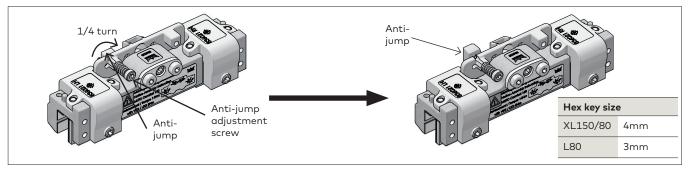
- 2.16.1 SET GLASS AND ROLLERS ONTO TRACK.
- 2.16.2 Slide floor guide over floor guide anchor and tighten with set screws.
- 2.16.3 Remove setting blocks.

NOTE: Be sure glass is centered in floor guide.

2.16.4 Adjust using set screws.

2.17 Engaging anti-jump

Fig 16

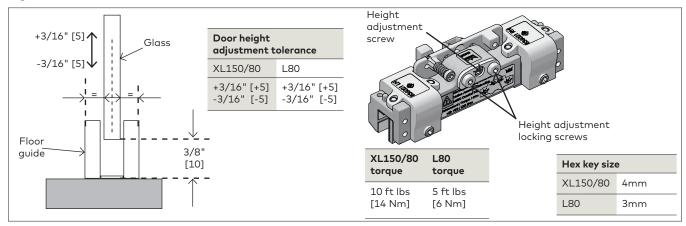


2.17.1 Engage anti-jump on roller carrier.

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

2.18 Adjustment door height

Fig 17

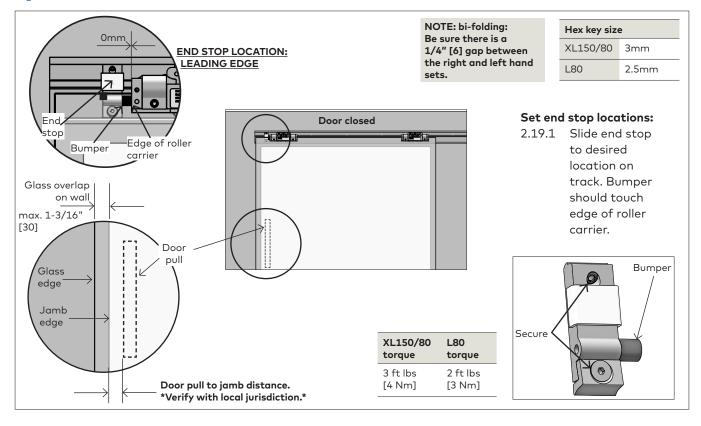


- 2.18.1 Set height of glass door.
- 2.18.2 Loosen height adjustment locking screws of carrier.
- 2.18.3 Using appropriate-size hex key, turn height adjustment screw **CLOCKWISE** or **COUNTER-CLOCKWISE** to raise or lower glass.

NOTE: Be sure glass is level during this adjustment.

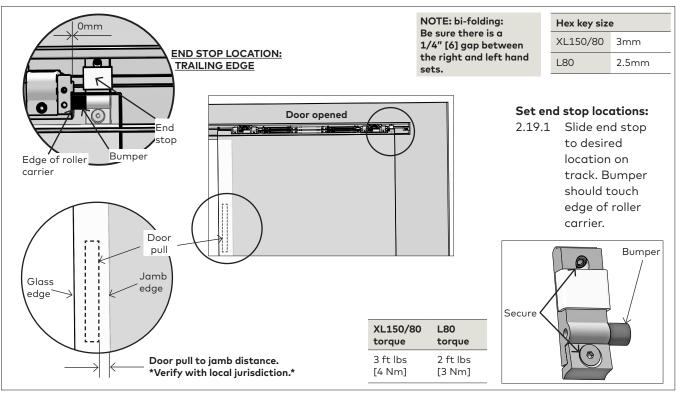
2.19 Adjustment end stop location: LEADING end stop

Fig 18



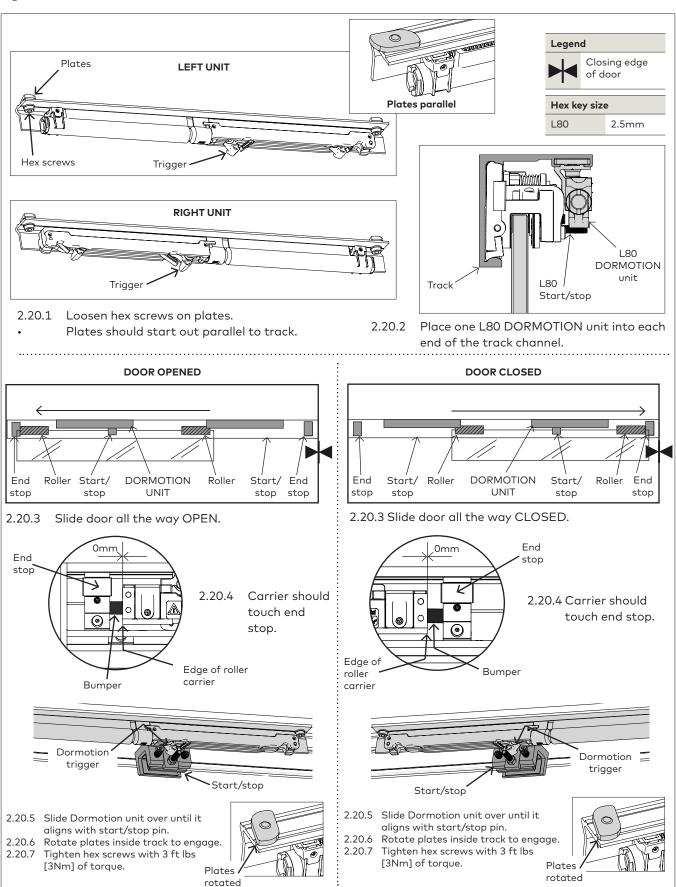
Adjustment end stop location: TRAILING end stop

Fig 21



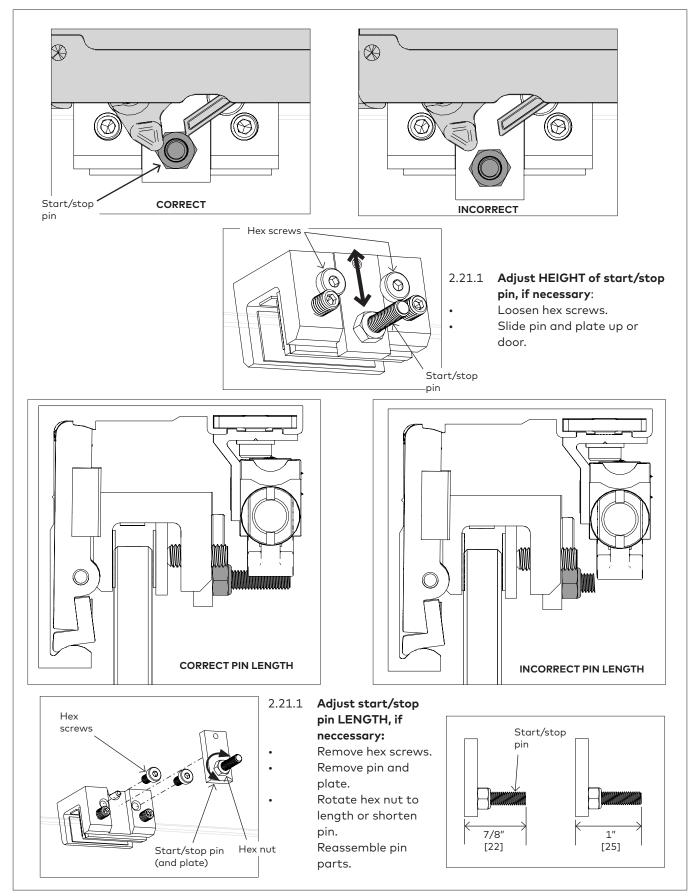
2.20 L80 (ONLY): Install DORMOTION unit

Fig 19



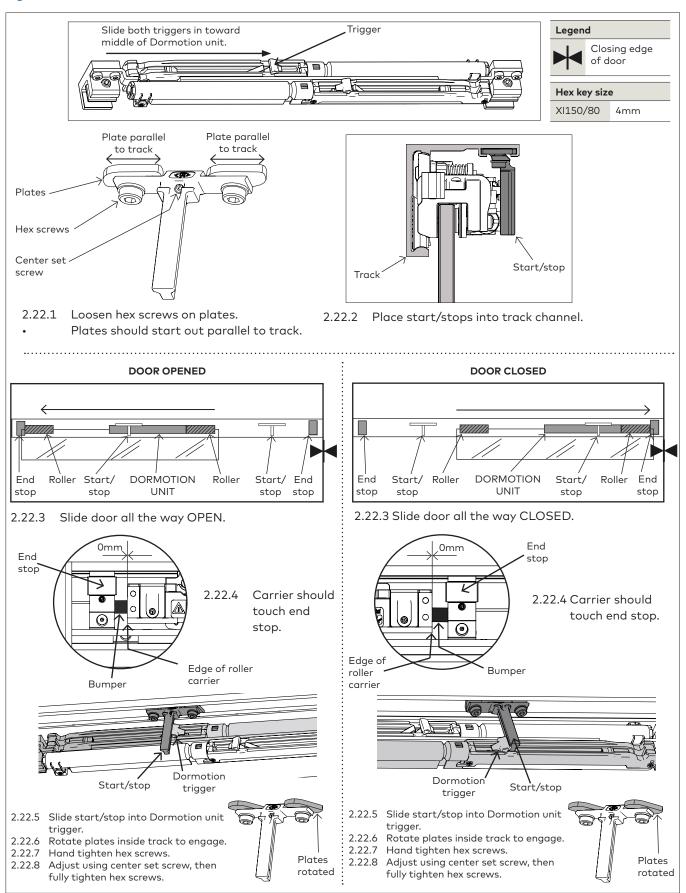
2.21 L80 (ONLY): Adjust start/stop pin location for L80 DM unit

Fig 20



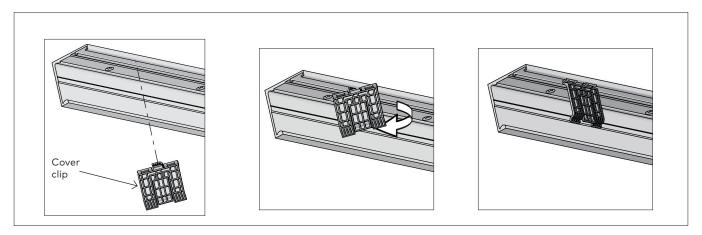
2.22 XL150/80 (ONLY): Install DORMOTION start/stops

Fig 22



2.23 Cover clips

Fig 23

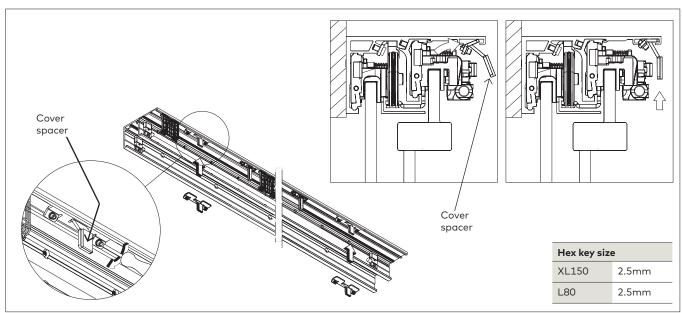


2.23.1 Insert cover clips into track. (One clip per foot)

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

2.24 Cover spacers

Fig 24

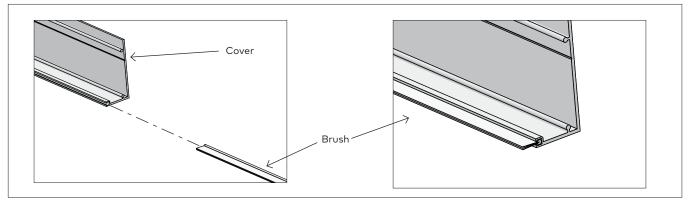


2.24.1 Tip cover spacers into outter most edge of track.

- 2.24.2 Place one at each end of track as shown.
- 2.24.3 Tighten at at 1 ft lbs [1Nm] or hand tighten.

2.25 Install brush profile

Fig 25

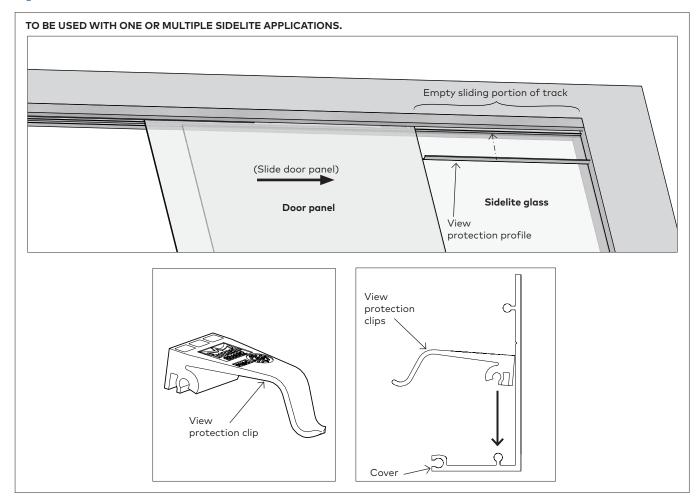


2.25.1 Measure and cut brush to appropriate length.

2.25.2 Slide brush into cover.

2.26 Install view protection clips

Fig 26



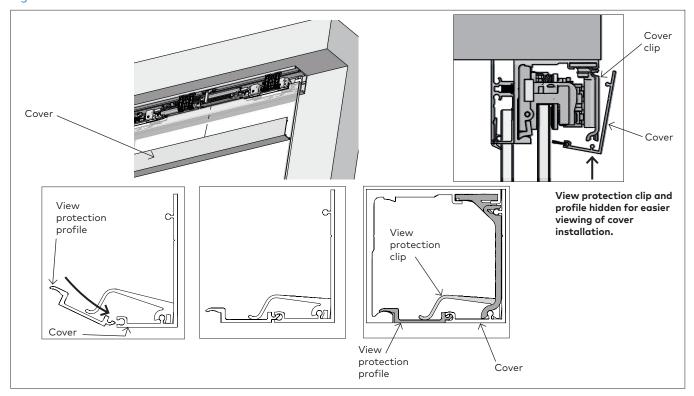
- 2.26.1 Slide door open until it meets the end stop.
- 2.26.2 Measure and cut view protection profile to fit into empty sliding portion of track 3/16" [5].
- 2.26.3 Snap view protection clips onto inside of cover as shown.

2.26.4 Use minimum 1 clip per foot of profile.

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

2.27 Install cover and view protection profile

Fig 27



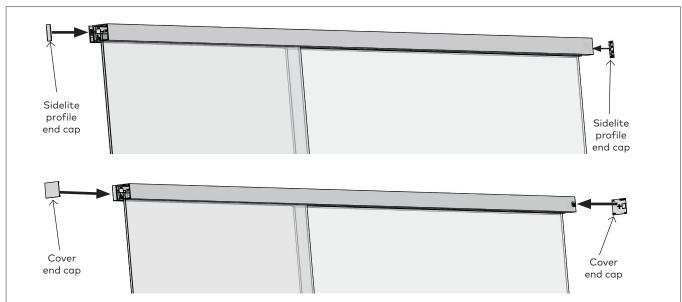
2.27.1 Secure cover to clips and snap into place.

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

2.27.2 Tip view protection profile up into track and snap down into cover and onto track as shown.

2.28 Install end caps

Fig 28



2.28.1 Snap sidelite profile end caps into sidelite profile.

2.28.2 Snap end caps into cover.

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