

# Muto Comfort L80

Glass mount

## Supplemental Installation instructions

936050 – 06-2021

| EN |

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# 1 Technical specifications

## 1.1 Overview

These instructions are for installation of MUTO COMFORT sliding door system L80 for the following mounting and style versions:

### 1. Glass 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      | Door Door                |
|----------------------|-----------------------------|------------------|--------------------------|
|                      |                             | L80              | L80                      |
| <b>Ceiling mount</b> | Door leaf weight lbs [kg] * | ≤176lbs<br>[≤80] | 2 x ≤176lbs<br>[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 <sup>2</sup> | 934.801  | 1 applicator              | 1:1 plunger with 934.800 adhesive |
| 3M™ Scotch-Weld™ EPX™ Plus II Mixing Square Nozzle, 5.3mm <sup>3</sup> | 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 ( <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.**

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

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

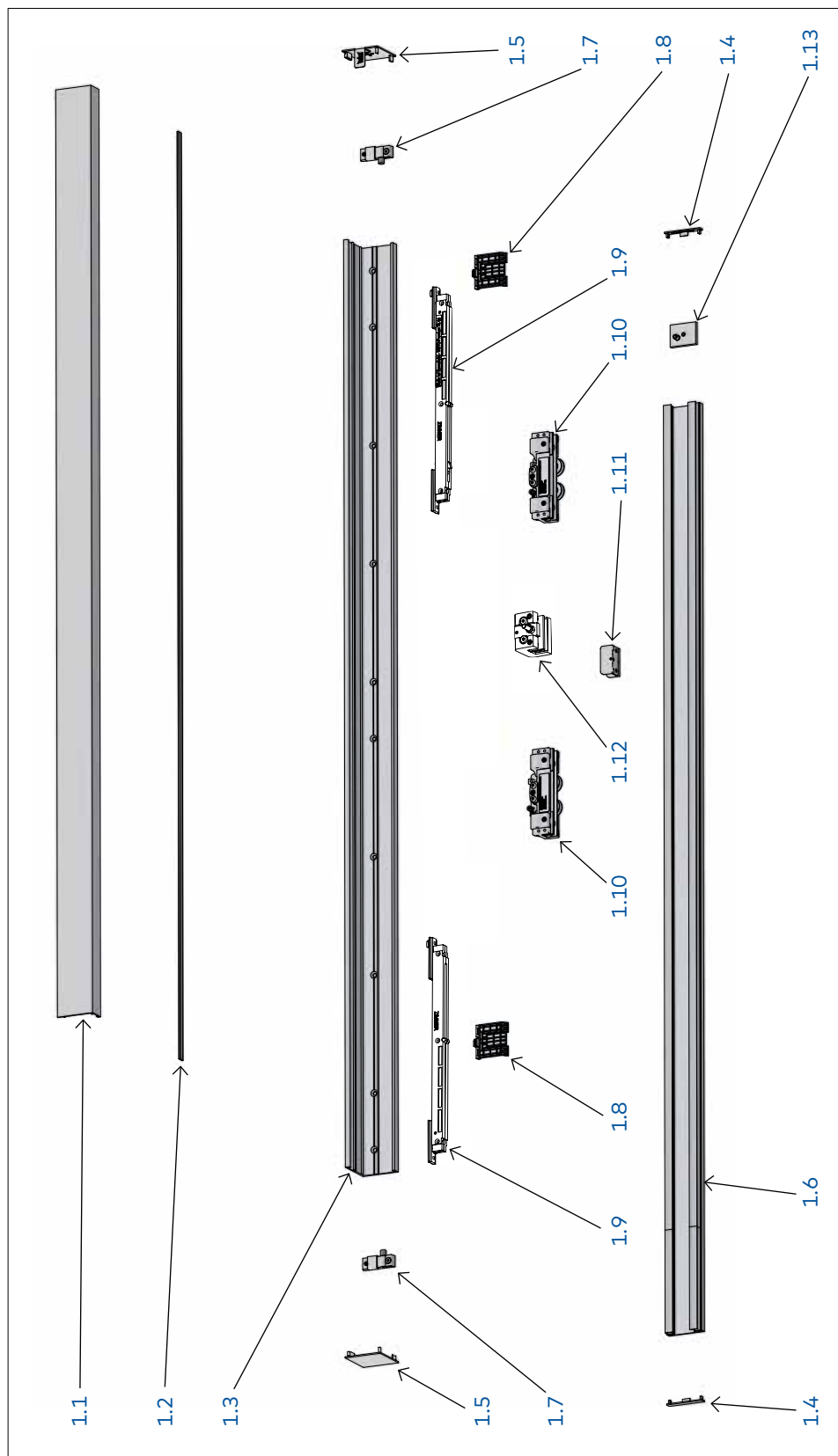
1.3 Never use clamping product on surfaces with self-cleaning coatings.

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

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

# 1.4 Overall

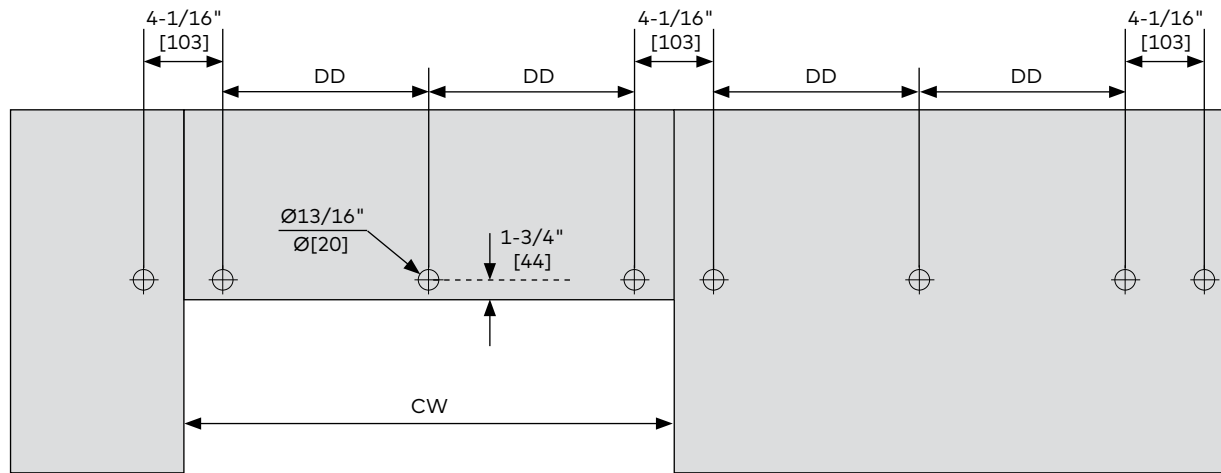
Fig. 1



- 1.1 Cover panel
- 1.2 Brush strip
- 1.3 Track
- 1.4 End cap (glass clamp profile)
- 1.5 End cap (track)
- 1.6 Glass clamp profile
- 1.7 End stop
- 1.8 Cover clips
- 1.9 Dormotion units (optional; only with Dormotion units)
- 1.10 Dormotion units
- 1.11 Dormotion carrier
- 1.12 Dormotion units
- 1.13 Clamping plates
- 1.14 Floor guide
- 1.15 Start/stop (optional)

## 1.5 Glass door prep - single door mount

Fig. 2



1.5.1 Use the equation at the right to determine the 'drilling distance' [DD] between each hole.

$$DD = (CW - 106) \div T = \_ \text{ mm}$$

$$DD = (CW - 4-3/16") \div T = \_ "$$

- 1.5.2 First find the measured 'clear opening width' [CW] on the chart at the right.
- 1.5.3 Determine 'T' for the equation.
- 1.5.4 Insert appropriate values into equation and calculate accordingly.

| Clear opening width                     | T | Z  |
|---|---|----|
| CW ≥ 23-5/8" [600]<br>≤ 31-1/2" [800]   | 2 | 8  |
| CW > 31-1/2" [800]<br>≤ 39-3/8" [1000]  | 3 | 10 |
| CW > 39-3/8" [1000]<br>≤ 47-1/4" [1200] | 4 | 12 |
| CW > 47-1/4" [1200]<br>≤ 59-5/8" [1388] | 5 | 14 |

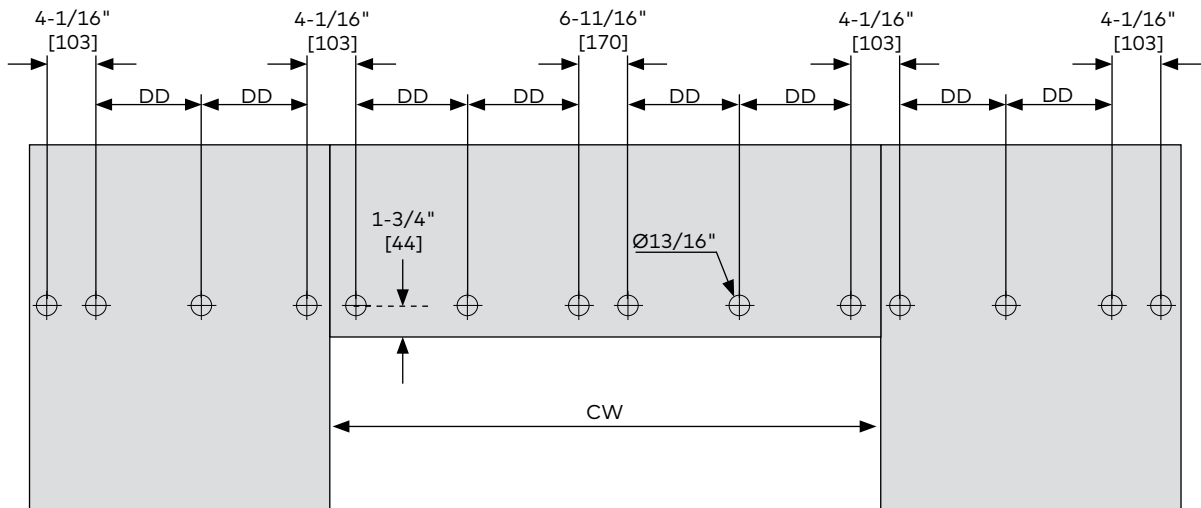
**SEE LEGEND BELOW FOR REFERENCE.**

| Legend       |                     |
|--------------|---------------------|
| Abbreviation | Description         |
| CW           | Clear opening width |
| DD           | Drilling distance   |
| T            | Division variable   |
| Z            | Qty of hole preps   |

|                          | XL 150 DM       | XL 80 DM       |
|--------------------------|-----------------|----------------|
| Min. door width          | 40-1/8" [1020]  | 31-7/8" [810]  |
| Min. clear opening width | 37-13/16" [960] | 29-1/2" [750]  |
| Max. door width          | 57" [1448]      | 57" [1448]     |
| Max. clear opening width | 54-3/4" [1390]  | 54-3/4" [1390] |

## 1.6 Glass door prep - double door mount

Fig. 3



1.6.1 Use the equation at the right to determine the 'drilling distance' [DD] between each hole.

$$DD = (CW - 106 - 170) \div T = \_ \text{ mm}$$

$$DD = (CW - 4\text{-}3/16\text{' - }6\text{-}11/16\text{'}) \div T = \_ \text{'}$$

- 1.6.2 First find the measured 'clear opening width' [CW] on the chart at the right.
- 1.6.3 Determine 'T' for the equation.
- 1.6.4 Insert appropriate values into equation and calculate accordingly.

| Clear opening width                       | T | Z  |
|---|---|----|
| CW ≥ 47-1/4" [1200]<br>≤ 59-1/16" [1500]  | 4 | 14 |
| CW > 59-1/16" [1500]<br>≤ 78-3/4" [2000]  | 6 | 18 |
| CW > 78-3/4" [2000]<br>≤ 112-1/16" [2846] | 8 | 22 |

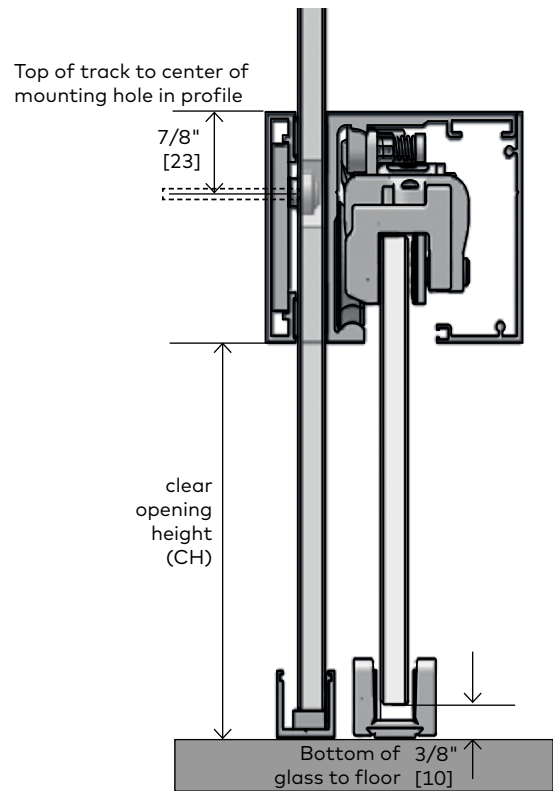
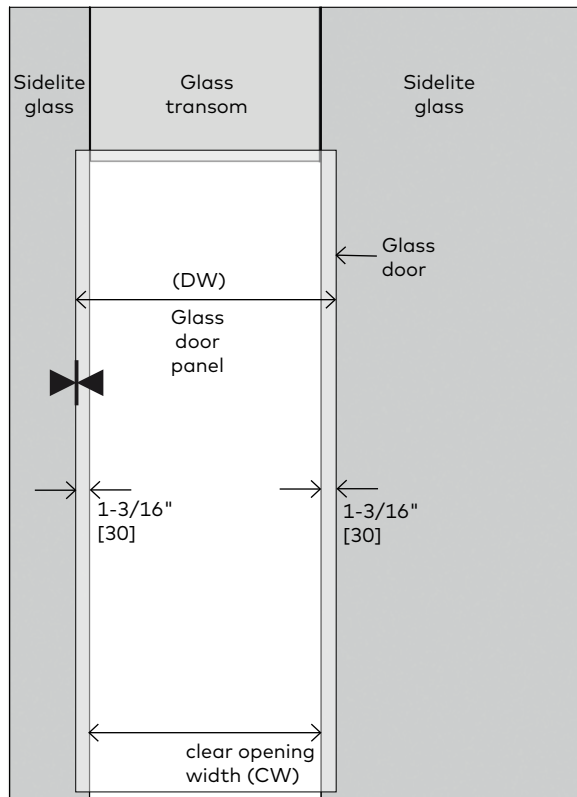
**SEE LEGEND BELOW FOR REFERENCE.**

| Legend       |                     |
|--------------|---------------------|
| Abbreviation | Description         |
| CW           | Clear opening width |
| DD           | Drilling distance   |
| T            | Division variable   |
| Z            | Qty of hole preps   |

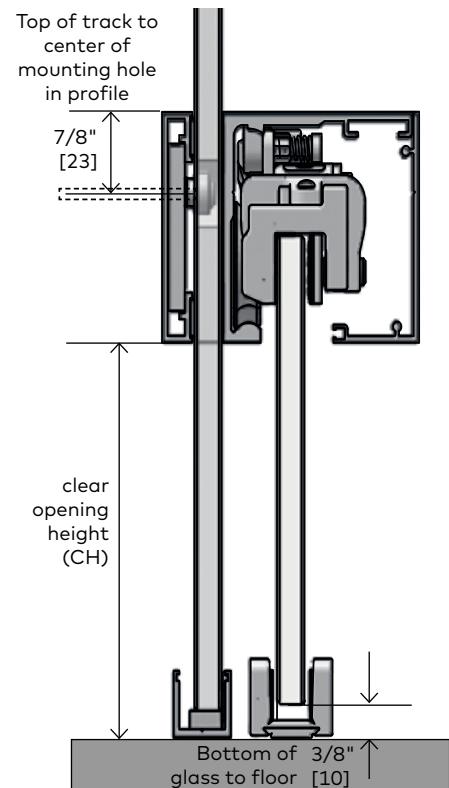
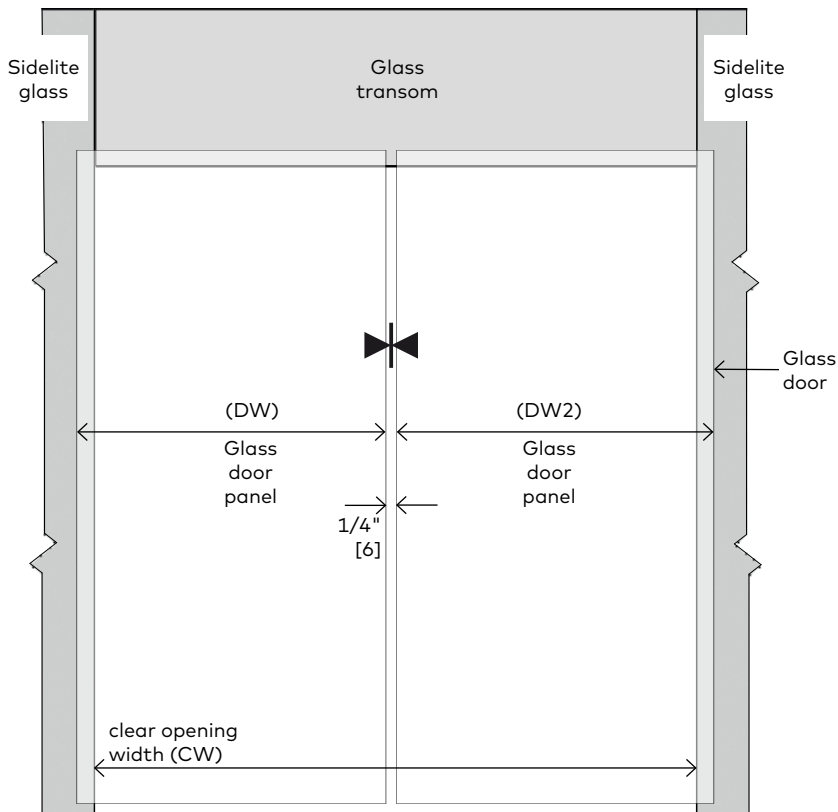
|  | XL 150 DM |        | XL 80 DM  |        |
|--|-----------|--------|-----------|--------|
| Min. door width w/o dormotion          | 26"       | [660]  | 26"       | [660]  |
| Min. door width w/dormotion            | 40-3/16"  | [1020] | 31-7/8"   | [810]  |
| Min. clear opening width w/o dormotion | 49-7/8"   | [1266] | 49-7/8"   | [1266] |
| Min. clear opening width w/dormotion   | 78-3/16"  | [1986] | 61-11/16" | [1566] |
| Max. door width                        | 57"       | [1448] | 57"       | [1448] |
| Max. clear opening width               | 112-1/16" | [2846] | 112-1/16" | [2846] |

## 1.7 Door/wall dimensions

### Single door mount



### Double door mount

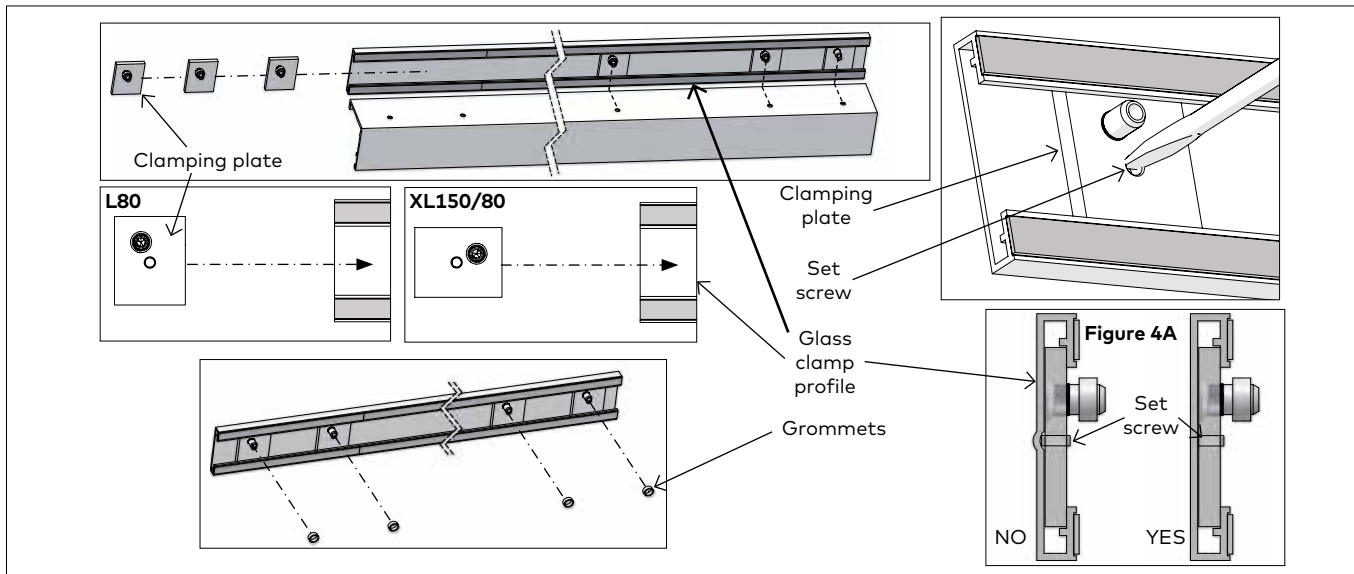




## 2 Installation instructions

### 2.1 Preparing track

Fig. 4



2.1.1 Slide clamping plates into end of glass clamp profile.

**NOTE:** Quantity dependent upon number of holes in track.

2.1.2 Orient plates properly as shown above; L80 or XL150/80.

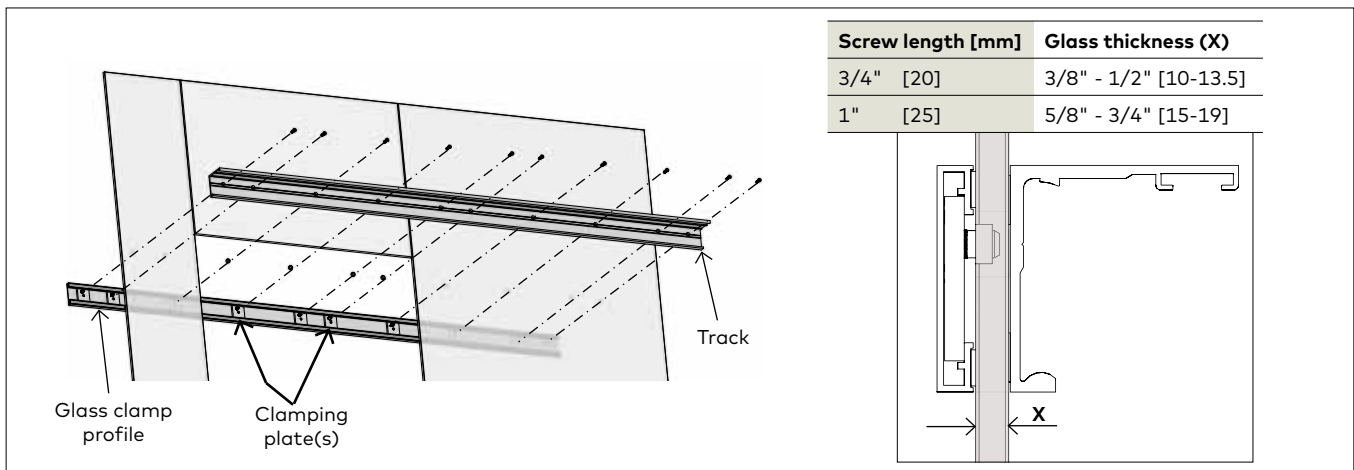
2.1.3 Secure via set screw.

**NOTE:** Be sure set screw does not indent back of glass clamp profile. See Figure 4A for reference.

2.1.4 Secure grommets to each clamping plate peg.

### 2.2 Securing glass clamp profile and track to glass mounting surface

Fig. 5



2.2.1 Ensure the track is properly level.

2.2.2 Align glass clamp profile clamping plates and track through glass mounting surface.

2.2.3 Secure with proper fasteners per chart above.

**NOTE:** SEE DOOR/WALL DIMENSIONS ON PRIOR PAGE FOR REFERENCE.

## 2.3 Securing glass clamp profile end caps

Fig. 6



- 2.3.1 Slide glass clamp profile end caps into ends of glass clamp profile.

 **INSTALL REMAINING MUTO PRODUCT AS PER STANDARD INSTRUCTIONS INCLUDED.**

