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1 Technical specifications

1.1 Overview

These instructions are for installation of MUTO Premium XL 120 Self-Closing panels for the following mounting and style versions:

1. Recessed mount

1.1.1 General information

- dormakaba requires use of tempered laminated or tempered monolithic glass.
- dormakaba glass hardware is not suitable for harsh environment; for example, applications where chemicals (e.g. chlorine) are used such 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. Ensure proper installation of limiting stop to prevent door from opening too far.

1.1.2 Intended use

- For sliding doors in dry indoor areas only.
- For manual slow opening and closing only.

1.1.3 Glass requirements/fittings/mounting

- The substructure/wall must be able to bear permanent loads, 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.
- Always wear protective clothing.
- 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 OF DOOR**

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 cloth for occasional cleaning.
- Always use silicone - and oil-free cleaners (e.g. acetone).
- Check glass hardware at regular intervals for proper positioning, 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 Specification - technical data

<table>
<thead>
<tr>
<th>Ceiling mount</th>
<th>Single door</th>
<th>Double door</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>XL120</td>
<td>XL120</td>
</tr>
<tr>
<td>Door leaf weight lbs [kg]</td>
<td>&lt;264lbs [&lt;120]</td>
<td>2 × &lt;264lbs [2 × &lt;120]</td>
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1.3 Tempered laminate glass (TLG) and adhesive specifications

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

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 fitting hardware directly to glass surface.

1.3 Never use clamping products 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

Fig. 1
2.2 Installing end stops

Fig. 2

**HANDING SELF-CLOSE END STOP**

- Slide open to the right: RIGHT hand
- Slide open to the left: LEFT hand

<table>
<thead>
<tr>
<th>Standard end stop</th>
<th>Self-close end stop</th>
<th>Self-close end stop</th>
<th>Standard end stop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend**

- Closing edge of door

**Handing the [opening side] end stop:**

2.2.1 Determine closing edge of door.
- SELF-CLOSE END STOP WILL BE USED ON OPENING SIDE OF DOOR.
2.2.2 Hand self-close end stop by inserting bumper on appropriate side of end stop.

**Install both end stops:**

2.2.3 Slide self-close end stop into opening side of track.
2.2.4 Slide appropriate standard end stop into closing side of track.

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

**NOTE:** Be sure set screw is flush with back of bumper.

**NOTE:** Exact location/adjustments will be determined in Adjustment End Stop location.
2.3  Securing sidelite adhesive gasket to track

Fig. 3 Sidelite gasket

2.3.1  Ensure the track is cut to proper length.

NOTE: SEE DIMENSION INSTRUCTIONS ON PAGE 10.

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  Securing sidelite section profile to track

Fig. 4 Sidelite profile

2.4.1  Align sidelite profile holes with track profile holes.

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

2.4.2  Secure with 9/16" [14] fasteners provided.

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

NOTE: LEAVE EVERY OTHER HOLE EMPTY ONLY if securing drop ceiling extrusion.
2.5 Secure track and sidelite extrusion into ceiling (and drop ceiling extrusion, if supplied)

Fig. 5 Drop ceiling extrusion

**OPTION 1:**
If recessed ON BOTH SIDES; DRYWALL VERTICALLY MOUNTED, reference the following images:

- Min. 4-13/16" [123]

**OPTION 2:**
If recessed ON BOTH SIDES; MAY BE DROP CEILING PROFILE OR REINFORCED DRYWALL, reference the following images:

- See other Optional Applications at back of installation instructions.

2.5.1 Drill 1/4" pilot holes through remaining empty holes in track, through sidelite profile.

2.5.2 Secure drop ceiling extrusion to track and sidelite profile with 1-3/8" [35] fasteners provided.
2.6 Specifications for securing track to mounting surface

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

NOTE: SEE DIMENSION INSTRUCTIONS ON NEXT PAGE FOR REFERENCE.

NOTE:
OVERHEAD REINFORCEMENT:
The overhead reinforcement must be a minimum of ¼” [6] x 3” [76] steel angle, 16 gauge metal stud with wood blocking, 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.

2.6.2 Use appropriate fasteners according to the following recommendations.

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.
2.7 Door/wall dimensions

Single sidelite mount

- **clear opening height (CH)**
- **clear opening width (CW)**
- **Sidelite glass**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back of track to center of mounting hole in track</td>
<td>7/8&quot; [23]</td>
</tr>
<tr>
<td>Bottom of glass to floor</td>
<td>3/8&quot; [10]</td>
</tr>
</tbody>
</table>

Double door mount

- **clear opening height (CH)**
- **clear opening width (CW)**
- **Sidelite glass**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back of track to center of mounting hole in track</td>
<td>7/8&quot; [23]</td>
</tr>
<tr>
<td>Bottom of glass to floor</td>
<td>3/8&quot; [10]</td>
</tr>
</tbody>
</table>
2.8 Installing U-channel for sidelite

Fig. 6 U-channel

2.8.1 Install gaskets as shown. Trim to correct length.
2.8.2 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.
NOTE: Gaskets are pre-installed.
2.9A  Installing roller carriers: on monolithic glass ONLY

Fig. 7  Roller carriers

---

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

2.9A.1  Slide roller carriers onto glass.
2.9A.2  Slide glass gasket and metal shim between glass and roller carrier.

**NOTE:** Orient gasket with rubber side facing the glass.

2.9A.3  Secure roller carriers to glass at 10 ft lbs (14 Nm).
2.9B Installing roller carriers: on tempered laminate glass ONLY

**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.

2.9B.1 Slide carriers onto glass.
2.9B.2 Replace existing gasket with TLG gasket.
2.9B.3 Slide laminated glass gasket and metal shim between glass and roller carrier.

**NOTE:** Orient gasket with rubber side facing the glass.

2.9B.4 Relace existing set screws with vented set screws.
2.9B.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 prevent mixing errors and ensure optimal hardening.

2.9B.6 Dispense into vented set screws on both sides of carrier.

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

**WARNING:** 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.
2.10 Installing DORMOTION

Fig. 9 Dormotion unit

2.10.1 Slide DORMOTION dampener onto glass. 
**NOTE:** Oriented with triggers facing outward.

2.10.2 Dampener must be flush against leading roller carrier. 
**NOTE:** Leading carrier is on side of glass closest to latch.

2.10.3 Secure dampener to glass using appropriate-size hex key.
2.10.4 Engage triggers: push out towards end of DORMOTION unit.

2.11 Disengaging the anti-jump

Fig. 10 Anti-jump

**NOTE:** Anti-jump shipped engaged.

2.11.1 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.
### 2.12 Install glass/rollers in track

#### Fig. 11 Side view of door system

**ENSURE ROLLERS AND TRACK ARE FREE OF DEBRIS.**

2.12.1 Place glass on setting blocks on floor for stability.
2.12.2 Lift glass and rollers up and rest rollers on track.

*If installing/hanging tempered laminated glass panels, ensure carrier adhesive has cured for 48 hours minimum. See Specifications section for more information regarding cure time.*

### 2.13 Install floor guide

#### Fig. 12 Floor guide

2.13.1 Align centerline of glass with centerline of floor guide.
2.13.2 Be sure the glass is plumb.

**NOTE:** Center of floor guide should be 13/16" [20] off the center of the wall.

2.13.3 Mark appropriate floor guide measurements and remove glass and rollers from track.
2.13.4 Pre-drill into mounting surface using a 5/16" drill bit.
2.13.5 Secure floor guide anchor with included fasteners.
2.14 Install floor guide: continued

**Fig. 13 Floor guide**

2.14.1 Set glass and rollers onto track.
2.14.2 Slide floor guide over floor guide anchor and tighten with set screws.

2.15 Engaging anti-jump

**Fig. 14 Anti-jump**

2.15.1 Engage anti-jump on roller carrier.

**NOTE:** Using the optional ratchet and provided bit, push anti-jump adjustment screw IN and turn CLOCKWISE 90° to engage anti-jump.

2.16 Adjustment door height

**Fig. 15 Door adjustment**

2.16.1 Set height of glass door.
2.16.2 Using the optional ratchet and provided bit, loosen height adjustment locking screws of carrier.

**Door height adjustment tolerance**


**Height adjustment screw**

- Use 1-1/4" bit
- 10 ft lbs [14 Nm]

**Height adjustment locking screws**

- Use 7/8" bit
- 4mm x 1-1/4"

**NOTE:** Using optional ratchet and provided bit, turn height adjustment screw CLOCKWISE or COUNTER-CLOCKWISE to raise or lower glass.

**NOTE:** Be sure glass is level during this adjustment.
2.17 Adjustment end stop location: LEADING end stop

**Fig. 16 End stops**

**END STOP LOCATION: LEADING EDGE**

- **Frame edge**
- **Glass door edge**
- **Handle**
- **Glass**

**LOCATION OF GLASS DOOR TO FRAME EDGE**

- **End stop**
- **Edge of roller carrier**
- **Bumper**
- **0 mm**

**END STOP LOCATION: LEADING EDGE**

**Set end stop location:**

2.17.1 Slide end stop to desired location on track. Bumper should touch edge of roller carrier.

**Hex key size**

| XL120 | 3mm |

**NOTE:** Pair of doors: Be sure there is a 1/4" [6] gap between the two doors.

**Locations:**

- **Handle to frame edge distance.**
- **“Verify with local jurisdiction.”**

**Adjustment end stop location: TRAILING end stop**

**Fig. 17 End stops**

**END STOP LOCATION: TRAILING EDGE**

- **Sidelite glass**
- **Sidelite edge**
- **Glass door edge**
- **Handle**
- **End stop**
- **Bumper**
- **0 mm**

**LOCATION OF GLASS DOOR TO FRAME EDGE**

- **Sidelite glass**
- **Glass door**

**END STOP LOCATION: TRAILING EDGE**

**Set end stop location:**

2.17.1 Slide end stop to desired location on track. Bumper should touch edge of roller carrier.

**Hex key size**

| XL120 | 3mm |

**NOTE:** Pair of doors: Be sure there is a 1/4" [6] gap between the two doors.

**Locations:**

- **Handle to sidelite edge distance.**
- **“Verify with local jurisdiction.”**
2.18 Changing out start/stop plate for recessed mount

Fig. 18 Start/stop

<table>
<thead>
<tr>
<th>Hex key size</th>
<th>XL150/80</th>
<th>4mm</th>
</tr>
</thead>
</table>

- Feet (REMOVE)
- Flat washers (REMOVE)
- Plate (ADD)
- Locking washers (ADD)
- Hex screws
- Set screws (ADD)

2.18.1 Remove screws, flat washers, and feet from start/stop.
2.18.2 Disgard flat washers and feet.
2.18.3 Replace with included plate and locking washers.
- Orient in position as shown in image.

2.18.4 Resecure to start/stop with original screws. DO NOT FULLY TIGHTEN.
2.18.5 Insert set screws. Can be used for adjustment after installation.
2.19 Install DORMOTION start/stops

Fig. 19 Start/stop

2.19.1 Guide start/stop into track while holding the set screws.

2.19.2 Slide door all the way OPEN.

2.19.3 Carrier should touch end stop.

2.19.4 Slide start/stop into Dormotion unit trigger.
2.19.5 Tighten set screws first.
2.19.6 Fully tighten hex screws.
2.20  Install self-close unit hold open clamp

Fig. 20  Self-close hold open clamp

2.20.1  Secure self-close hold open clamp to the end stop furthest from latch [closing side].
• Use two screws and tighten to 2.5 ft lbs (3Nm).

2.21  Install self-close unit hold open ball

Fig. 21  Self-close hold open clamp

2.21.1  Secure self-close hold open ball to carrier furthest from latch [closing side].
• Use two screws and tighten at 2.5 ft lbs [3Nm].

2.22  Install self-close unit cable connector

Fig. 22  Self-close hold open clamp

2.22.1  Secure self-close cable connector to opposite end of carrier, furthest from latch [closing side].
• Use two screws and tighten at 2.5 ft lbs (3Nm).
2.23 Install self-close cable unit
Fig. 23 Self-close hold open clamp

2.23.1 Secure self-close cable unit into first groove of MUTO track.

2.23.2 Rotate plates inside track channel to engage.

- Use three screws/plates and tighten at 3 ft lbs (4 Nm).

2.24 Prepare self-close cable unit
Fig. 24 Self-close hold open clamp

2.24.1 Pull “end of cable” over to connect with cable connector.

2.24.2 Continue to pull cable through connector to either increase or decrease self-closing tension.

NOTE: CABLE UNIT COVER HIDDEN FOR BETTER VIEWING OF CABLE.
2.25 Adjust tension in self-close cable unit

Fig. 25 Self-close hold open clamp

2.25.1 To adjust tension in cable unit cord if necessary, pull 'beginning knot of cable' through cable holder.

2.25.2 Secure another 'knot' and pull cable through holder as show in image above.

2.25.3 Secure beginning 'knot' in holder clamp.

NOTE: Be sure there is a 7-7/8" [200] gap between each new 'knot' in the cord.
2.26 Secure drop ceiling extrusion to cover

Fig. 26 Drop ceiling extrusion

APPLICATION OPTION:
Drop ceiling on inside AND outside of door panel.

See Optional Applications section for more choices.

2.26.1 Pre-drill holes through cover groove into drop ceiling extrusion.

- **End holes:** approximately 2" [51] from end of cover
- **All other holes:** approximately 12" [305] apart
2.27 Install drop ceiling cover clips

Fig. 27 Drop ceiling extrusion cover clips

2.27.1 Slide cover clips on from end of cover.
2.27.2 Tighten with screw. **Be sure not to damage cover.**

**NOTE:** 1 clip per 2 feet of cover extrusion.

2.28 Install brush profile

Fig. 28 Brush profile for cover

2.28.1 Measure and cut brush to appropriate length.
2.28.2 Slide brush into cover.
2.29 Install view protection clips

Fig. 29 View protection clips

TO BE USED WITH ONE OR MULTIPLE SIDELITE APPLICATIONS.

Measure and cut view protection profile to fit into empty sliding portion of track - 3/16" [5].

Snap view protection clips onto inside of cover as shown.

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

2.30 Cover spacers

Fig. 30 Cover spacers

Tip cover spacers into outermost edge of track.

Place one at each end of track as shown.

Tighten at 1 ft lbs [1Nm] or hand tighten.
2.31 Install cover and view protection profile

Fig. 31 Cover and profile

2.31.1 Install cover:
- Insert back prong lip of recessed cover clip into groove first.
- Rotate cover assembly up and then snap front prong lip of clip into track groove.

2.31.2 Once cover is in place, tip view protection profile up in between track and cover.

2.31.3 Snap down into cover and onto track as shown.

2.32 Install end caps

Fig. 32 End caps

2.32.1 Snap end caps into cover.
2.32.2 Snap end caps into ends of sidelite profile.
2.32.3 Snap end caps into ends of u-channel.
2.33 Installing sidelite glass

Fig. 33 Sidelite glass

2.33.1 Place setting blocks into u-channel.
2.33.2 Spray inside of u-channel with glass cleaner.
2.33.3 Lift glass up and into sidelite profile.
2.33.4 Lower glass into u-channel.
2.33.5 Ensure there is 1/8" [3] gap between wall and edge of sidelite glass.
2.33.6 If using tempered laminated glass, gently press glass against u-channel gasket, and dispense silicone along full length of non-gasket side of u-channel.

2.34 Installing sidelite glass gasket

Fig. 34 Sidelite gasket

2.34.1 Cut gasket to length.
2.34.2 Press gasket in between sidelite glass and sidelite profile.
### 2.35 Installing sidelite glass filler panel

**Fig. 35 Sidelite filler panel**

2.35.1 Fit filler panel between empty section of track and sidelite profile, on door side.
3 Optional applications

Fig. 36 Drop ceiling applications

Option 3 -
Recessed both sides;
drop ceiling profile one side/
flush vertical drywall other side.

Option 4 -
Recessed one side only;
drop ceiling profile one side/
vertical drywall above.

Option 5 -
Recessed both sides;
drop ceiling profile one side/
reinforced drywall other side.

Option 6 -
Recessed one side only;
drop ceiling profile cover side/
reinforced drywall above side lite profile

Option 7 -
Recessed one side only;
drop ceiling profile one side/
reinforced drywall above cover.

NOTE: Required blocking for proper securing of drywall not shown.