Muto Premium XL120
Wall mount with Dormotion and Self-Close
(Wood door)

Installation instructions
936012 – 05-2018
# Table of contents

<table>
<thead>
<tr>
<th>1</th>
<th>Technical specifications</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Overview</td>
<td>3</td>
</tr>
<tr>
<td>1.1.1</td>
<td>General information</td>
<td>3</td>
</tr>
<tr>
<td>1.1.2</td>
<td>Intended use</td>
<td>3</td>
</tr>
<tr>
<td>1.1.3</td>
<td>Door requirements and fittings</td>
<td>3</td>
</tr>
<tr>
<td>1.1.4</td>
<td>Safety instructions</td>
<td>3</td>
</tr>
<tr>
<td>1.1.5</td>
<td>Symbols used - Safety/Installation</td>
<td>3</td>
</tr>
<tr>
<td>1.1.6</td>
<td>Maintenance, care, repair</td>
<td>3</td>
</tr>
<tr>
<td>1.1.7</td>
<td>Disposal</td>
<td>3</td>
</tr>
<tr>
<td>1.2</td>
<td>Specifications - technical data</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>Installation instructions</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Overall</td>
<td>4</td>
</tr>
<tr>
<td>2.2</td>
<td>Securing wood door adaptor</td>
<td>5</td>
</tr>
<tr>
<td>2.2</td>
<td>Securing track to mounting surface</td>
<td>5</td>
</tr>
<tr>
<td>2.3</td>
<td>Door/wall dimensions</td>
<td>6</td>
</tr>
<tr>
<td>2.4</td>
<td>Installing roller carriers</td>
<td>7</td>
</tr>
<tr>
<td>2.5</td>
<td>Installing DORMOTION</td>
<td>8</td>
</tr>
<tr>
<td>2.6</td>
<td>Disengaging the anti-jump</td>
<td>8</td>
</tr>
<tr>
<td>2.7</td>
<td>Installing the end stops</td>
<td>9</td>
</tr>
<tr>
<td>2.8</td>
<td>Install door/rollers in track</td>
<td>9</td>
</tr>
<tr>
<td>2.9</td>
<td>Install floor guide</td>
<td>10</td>
</tr>
<tr>
<td>2.11</td>
<td>Engaging anti-jump</td>
<td>10</td>
</tr>
<tr>
<td>2.12</td>
<td>Adjustment door height</td>
<td>11</td>
</tr>
<tr>
<td>2.13</td>
<td>Adjustment end stop location:</td>
<td>12</td>
</tr>
<tr>
<td>2.13.1</td>
<td>LEADING end stop</td>
<td>12</td>
</tr>
<tr>
<td>2.13.2</td>
<td>TRAILING end stop</td>
<td>12</td>
</tr>
<tr>
<td>2.14</td>
<td>Install DORMOTION start/stops</td>
<td>13</td>
</tr>
<tr>
<td>2.15</td>
<td>Install self-close hold open clamp</td>
<td>14</td>
</tr>
<tr>
<td>2.16</td>
<td>Install self-close hold open ball</td>
<td>14</td>
</tr>
<tr>
<td>2.17</td>
<td>Install self-close cable connector</td>
<td>14</td>
</tr>
<tr>
<td>2.18</td>
<td>Install self-close cable unit</td>
<td>15</td>
</tr>
<tr>
<td>2.19</td>
<td>Prepare self-close cable unit</td>
<td>15</td>
</tr>
<tr>
<td>2.20</td>
<td>Adjust tension in self-close cable unit</td>
<td>16</td>
</tr>
<tr>
<td>2.21</td>
<td>Cover clips</td>
<td>17</td>
</tr>
<tr>
<td>2.22</td>
<td>Install brush profile</td>
<td>17</td>
</tr>
<tr>
<td>2.23</td>
<td>Install view protection clips</td>
<td>18</td>
</tr>
<tr>
<td>2.24</td>
<td>Install cover and view protection profile</td>
<td>19</td>
</tr>
<tr>
<td>2.25</td>
<td>Install end caps</td>
<td>19</td>
</tr>
</tbody>
</table>
1 Technical specifications

1.1 Overview

These instructions are for installation of MUTO PREMIUM sliding door system XL120 for wood doors for the following mounting and style versions:

1. Wall mount

1.1.1 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.

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

1.1.3 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.

1.1.4 Safety instructions
- Installation requires two people.
- Only properly qualified and specially trained staff are authorized to mount dormakaba glass hardware.

1.1.5 Symbols used - Safety/Installation

1.1.6 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.)

1.1.7 Disposal
Disposal in accordance with local, state and national regulations.

1.2 Specifications - technical data

<table>
<thead>
<tr>
<th></th>
<th>Single Door XL120</th>
<th>Double Door XL120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door leaf weight lbs [kg]*</td>
<td>≤264lbs [≤120]</td>
<td>2 x ≤264lbs [2 x ≤120]</td>
</tr>
</tbody>
</table>

* Including weight of auxiliary hardware.
2 Installation instructions

2.1 Overall
2.2 Securing wood door adaptor

**Fig. 1**

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

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

2.2.1 Prepare the door properly for the wood door adaptor.

2.2.2 Cut wood door adaptor to be equal width of door.

**XL120:**

- Secure the two wood door adaptor pieces to top of door with #10 x 3” wood screws.

**NOTE:** Be sure screws are always secured in the first four and last four holes of the adaptor, along with every fourth hole in between.

2.2 Securing track to mounting surface

2.2.1 Ensure the track is properly level and secure it to the ceiling per the appropriate measurements on the following page.

- **NOTE:** SEE DIMENSION INSTRUCTIONS ON NEXT PAGE FOR REFERENCE.

**NOTE:**

**WALL REINFORCEMENT:**

The wall reinforcement must be a minimum of ¼” [6] x 3” [76] steel angle, 16 gauge metal stud, or 1-1/2” [38] thick wood blocking secured to the wall studs on a maximum 16” [406mm] centers for the length of the track. The wall reinforcement may be flush on the wall surface or on the interior of the wall. For masonry walls the track may be secured directly to the wall with lead anchors.

**Track mounting screws must fully penetrate the steel angle, metal stud, or 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 Door/wall dimensions

Single door mount

<table>
<thead>
<tr>
<th>Clear opening height (CH)</th>
<th>Wood door panel</th>
<th>1-3/16&quot; (30)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wood door panel</td>
<td>1-3/16&quot; (30)</td>
</tr>
<tr>
<td></td>
<td>Clear opening width (CW)</td>
<td>1-3/16&quot; (30)</td>
</tr>
</tbody>
</table>

Double door mount

<table>
<thead>
<tr>
<th>Clear opening height (CH)</th>
<th>Wood door panel</th>
<th>1/4&quot; (6)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wood door panel</td>
<td>1-3/16&quot; (30)</td>
</tr>
<tr>
<td></td>
<td>Wood door panel</td>
<td>1-3/16&quot; (30)</td>
</tr>
<tr>
<td></td>
<td>Clear opening width (CW)</td>
<td>1-3/16&quot; (30)</td>
</tr>
</tbody>
</table>

Top of track to center of mounting hole in track

15/16" (24) [DW]

Bottom of door to floor

3/8" [10]
2.4 Installing roller carriers:

Fig. 2

![Diagram of roller carriers installation]

**Determine the leading (X) versus trailing (Z) edge of the glass.**

"Leading is side closest to latch closed."

**Roller location on wood door with DORMOTION unit**

<table>
<thead>
<tr>
<th></th>
<th>XL120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single door X</td>
<td>2-3/8&quot; [60]</td>
</tr>
<tr>
<td>Single door Z</td>
<td>3-1/8&quot; [80]</td>
</tr>
<tr>
<td>Double door X</td>
<td>2-3/8&quot; [60]</td>
</tr>
<tr>
<td>Double door Z</td>
<td>3-1/8&quot; [80]</td>
</tr>
</tbody>
</table>

**Legend**

- Closing edge of door

**Secure**

- Roller carriers to wood adaptor using appropriate-size hex key at 10 ft lbs [14 Nm].

**NOTE:** Fully clean surface of glass with an alcohol-based mild glass and surface cleaner. Ensure no debris is on the gasket.

**NOTE:** Ensure roller carrier wheels are free of debris.

2.4.1 Slide roller carriers onto wood door adaptor.

2.4.2 Slide gasket and metal shim between adaptor and roller carrier.

2.4.3 Secure roller carriers to wood adaptor using appropriate-size hex key at 10 ft lbs [14 Nm].

**Legend**

- Hex key size

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>XL120</td>
<td>4mm</td>
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</table>

**Torque values**

<table>
<thead>
<tr>
<th>XL120</th>
<th>10ft lbs [14Nm]</th>
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</table>

**NOTE:** Orient gasket with rubber side facing the adaptor.
2.5 Installing DORMOTION

Fig. 4

2.5.1 Slide DORMOTION dampener onto wood door adaptor.
- **NOTE:** Oriented with triggers facing outward.

2.5.1 Dampener must be flush against leading roller carrier.

- **NOTE:** Leading carrier is on side of door closest to latch.

2.5.2 Secure dampener to adaptor using appropriate-size hex key.

2.5.3 Engage triggers: push out towards end of DORMOTION unit.

2.6 Disengaging the anti-jump

Fig. 5

2.6.1 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.
2.7 Installing the end stops

Fig. 6

Handing the [opening side] end stop:
2.7.1 Determine closing edge of door.

- SELF-CLOSE END STOP WILL BE USED ON OPENING SIDE OF DOOR.

2.7.2 Hand self-close end stop by inserting bumper on appropriate side of end stop.

Install both end stops:
2.7.3 Slide self-close end stop into opening side of track.
2.7.4 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: Adjustment can be set in the "Adjustment End Stop Location" section.

2.8 Install door/rollers in track

Fig. 7

ENSURE ROLLERS AND TRACK ARE FREE OF DEBRIS.

2.8.1 Tip wood door and rollers upward and rest rollers on track.
2.9  Install floor guide

Fig. 8

![Diagram of floor guide installation](image)

- **ANTI-JUMP IS DISENGAGED!**
  
- **2.9.1** Temporarily slide floor guide into bottom groove of wood door.
- **2.9.2** Be sure the glass is plumb.
- **2.9.3** Mark appropriate floor guide measurements.

2.9.4 TEMPORARILY REMOVE WOOD DOOR AND ROLLERS FROM TRACK.

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

2.9.6 Secure floor guide with included fasteners.

2.9.7 SET WOOD DOOR AND ROLLERS BACK ONTO TRACK.

2.11  Engaging anti-jump

Fig. 10

![Diagram of anti-jump engagement](image)

**Hex key size**

| XL120 | 4mm |

2.11.1 Engage anti-jump on roller carrier.

2.11.2 Using appropriate-size hex key, push anti-jump adjustment screw IN and turn **CLOCKWISE 90°** to **engage** anti-jump.
2.12 Adjustment door height

2.12.1 Set height of wood door.
2.12.2 Loosen height adjustment locking screws of carrier.

2.12.3 Using appropriate-size hex key, turn height adjustment screw CLOCKWISE or COUNTER-CLOCKWISE to raise or lower the door.

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

End stop location: LEADING edge

**END STOP LOCATION:** LEADING EDGE

- **Door pull to jamb distance.**
  *Verify with local jurisdiction.*

**NOTE:** bi-folding: Be sure there is a 1/4" [6] gap between the right and left hand sets.

**Set end stop locations:**

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

**Hex key size**

| XL120 | 3mm |

**Bumper**

**Secure**

**XL12 torque**

3 ft lbs [4 Nm]

Adjustment end stop location: TRAILING end stop

End stop location: TRAILING edge

**END STOP LOCATION:** TRAILING EDGE

- **Door pull to jamb distance.**
  *Verify with local jurisdiction.*

**NOTE:** bi-folding: Be sure there is a 1/4" [6] gap between the right and left hand sets.

**Set end stop locations:**

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

**Hex key size**

| XL120 | 3mm |

**Bumper**

**Secure**

**XL12 torque**

3 ft lbs [4 Nm]
2.14 Install DORMOTION start/stops

2.14.1 Loosen hex screws on plates.
- Plates should start out parallel to track.

2.14.2 Place start/stops into track channel.

2.14.3 Slide door all the way OPEN.

2.14.4 Carrier should touch end stop.

2.14.5 Slide start/stop into Dormotion unit trigger.

2.14.6 Rotate plates inside track to engage.
2.14.7 Hand tighten hex screws.
2.14.8 Adjust using center set screw, then fully tighten hex screws.
2.15 Install self-close hold open clamp

2.15.1 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).

2.16 Install self-close hold open ball

2.16.1 Secure self-close hold open ball to carrier furthest from latch [closing side].

- Use two screws and tighten at 2.5 ft lbs [3Nm].

2.17 Install self-close cable connector

2.17.1 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).
2.18 Install self-close cable unit

2.18.1 Secure self-close cable unit into first groove of MUTO track.
2.18.2 Rotate plates inside track channel to engage.

2.19 Prepare self-close cable unit

2.19.1 Pull "end of cable" over to connect with cable connector.
2.19.2 Continue to pull cable through connector to either increase or decrease self-closing tension.
2.20 Adjust tension in self-close cable unit

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

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

2.20.3 Secure beginning 'knot' in holder clamp. 
**NOTE:** Be sure there is a 7-7/8" [200] gap between each new 'knot' in the cord.
2.21  Cover clips

Fig. 21

2.21.1  Insert cover clips into track. (One clip per foot)  
2.21.2  Insert perpendicular to track, and turn CLOCKWISE to snap into place.

2.22  Install brush profile

Fig. 22

2.22.1  Measure and cut brush to appropriate length.  
2.22.2  Slide brush into cover.
2.23 Install view protection clips

Fig. 23

TO BE USED WITH ONE OR MULTIPLE SIDELITE APPLICATIONS.

(Slide door panel)

Door panel

Empty sliding portion of track

Sidelite glass

View protection profile

View protection clip

Cover

View protection clips

2.23.1 Slide door open until it meets the end stop.
2.23.2 Measure and cut view protection profile to fit into empty sliding portion of track - 3/16" [5].
2.23.3 Snap view protection clips onto inside of cover as shown.
2.23.4 Use minimum 1 clip per foot of profile. Exception: If profile is minimum of 1 foot in length, use 2 clips.
2.24 Install cover and view protection profile

2.24.1 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.

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

2.25 Install end caps

2.25.1 Snap end caps onto track.