Muto Comfort M50
Ceiling mount Less Dormotion (Wood door)

Installation instructions
936025 – 05-2018
# Table of contents

1. Technical specifications 3
   1.1 Overview 3
      1.1.1 General information 3
      1.1.2 Intended use 3
      1.1.3 Door requirements and fittings 3
      1.1.4 Safety instructions 3
      1.1.5 Symbols used - Safety/Installation 3
      1.1.6 Maintenance, care, repair 3
      1.1.7 Disposal 3

2. Installation instructions 4
   2.1 Overall 4
   2.2 Securing wood door adaptor 5
   2.3 Securing track to mounting surface 5
   2.4 Door/wall dimensions 6
   2.5 Specifications - technical data 6
   2.6 Installing roller carriers:  
      on monolithic glass ONLY 7
   2.7 Installing end stops 7
   2.8 Install glass/rollers in track 8
   2.9 Engaging anti-jump 8
   2.10 Install floor guide 9
   2.11 Secure wood door anti-jump 9
   2.12 Adjustment door height 10
   2.13 Adjustment end stop location:  
      LEADING end stop  
      Adjustment end stop location:  
      TRAILING end stop 11
   2.14 Cover clips 12
   2.15 Install brush profile 12
   2.16 Install cover 13
   2.17 Install end caps 13
1 Technical specifications

1.1 Overview

These instructions are for installation of MUTO COMFORT sliding door system M50 for wood doors for the following mounting and style versions:

1. Ceiling 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

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

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.
2 Installation instructions

2.1 Overall
2.2 Securing wood door adaptor

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

2.2.3 M50:
- Secure wood door adaptor to top of wood 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.

2.3 Securing track to mounting surface

2.3.1 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:
OVERHEAD REINFORCEMENT:
The overhead reinforcement must be a minimum of ¼” [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.
2.4 Door/wall dimensions

![Diagram of door/wall dimensions]

2.5 Specifications - technical data

<table>
<thead>
<tr>
<th></th>
<th>Single Door</th>
<th>M50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door leaf weight lbs</td>
<td>≤110lbs</td>
<td>≤50</td>
</tr>
<tr>
<td>[kg]</td>
<td></td>
<td>[≤50]</td>
</tr>
</tbody>
</table>
2.6 Installing roller carriers: on monolithic glass ONLY

Fig 2

**NOTE:** FULLY CLEAN SURFACE OF ADAPTOR WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER. ENSURE GASKET IS FREE OF DEBRIS.

**NOTE:** ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.

2.6.1 Slide roller carriers onto adaptor.
2.6.2 Slide glass gasket and metal shim between adaptor and roller carrier.

NOTE: Orient gasket with rubber side facing the adaptor.

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

2.7 Installing end stops

Fig 3

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

2.7.1 Slide end stops into each end of the track.

NOTE: DO NOT FULLY TIGHTEN.
2.8 Install glass/rollers in track

Fig 4

![Diagram showing installation of rollers in track]

**END MUST BE FREE OF DEBRIS.**

2.8.1 Tip door and rollers upward and rest rollers on track.

2.9 Engaging anti-jump

Fig 5

![Diagram showing anti-jump mechanism]

2.9.1 Temporarily engage anti-jump on roller carrier.

2.9.2 Using appropriate-size ball-end hex key, turn adjustment screw CLOCKWISE to engage anti-jump.

<table>
<thead>
<tr>
<th>Hex key size</th>
</tr>
</thead>
<tbody>
<tr>
<td>M50</td>
</tr>
</tbody>
</table>
2.10 Install floor guide

2.10.1 Temporarily slide floor guide into bottom groove of wood door.
2.10.2 Be sure the door is plumb.
2.10.3 Mark appropriate floor guide measurements.
2.10.4 **DISENGAGE ANTI-JUMP.**
2.10.5 **TEMPORARILY REMOVE WOOD DOOR AND ROLLERS FROM TRACK.**
2.10.6 Pre-drill into mounting surface using a 5/16" drill bit.
2.10.7 Secure floor guide anchor with included fasteners.

2.11 Secure wood door anti-jump

2.11.1 Align wood anti-jump flush with each end of wood adaptor.
2.11.2 Mark and drill holes for anti-jump.
   - Use a 1/8" drill bit and tap.
2.11.3 Temporarily secure anti-jump to end of wood adaptor via outermost hole.
2.11.4 **SET WOOD DOOR BACK ONTO TRACK.**
2.11.5 **ENGAGE WOOD ANTI-JUMP** by turning anti-jump screw **CLOCKWISE.** Track clearance to be max. 1/32" [0.5].
2.11.6 Move anti-jump to be flush with end of wood adaptor.
2.12 Adjustment door height

Fig 8

2.12.1 RE-ENGAGE ROLLER ANTI-JUMP by turning anti-jump adjustment screw CLOCKWISE.

NOTE: Anti-jump should NOT touch track.

2.12.2 Set height of door.

NOTE: Be sure wood door is level during this adjustment.

Door height adjustment tolerance

<table>
<thead>
<tr>
<th>Wood door</th>
<th>M50</th>
</tr>
</thead>
<tbody>
<tr>
<td>M50</td>
<td>+5/32” [+4]</td>
</tr>
<tr>
<td></td>
<td>-3/32” [-2]</td>
</tr>
</tbody>
</table>

Hex key size

<table>
<thead>
<tr>
<th>Hex key size</th>
<th>M50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2.5mm</td>
</tr>
</tbody>
</table>

Floor guide

3/8” [10]
2.13 Adjustment end stop location: LEADING end stop

Fig 9

END STOP LOCATION: LEADING EDGE

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
M50 2mm, 2.5mm

M50 torque
3 ft lbs [4 Nm]

End stop
Bumper
Edge of roller carrier
Door overlap on wall max. 1-3/16” [30]
Bumper
Edge of roller carrier
Wood door edge
Jamb edge
Door pull

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

Adjustment end stop location: TRAILING end stop

Fig 10

END STOP LOCATION: TRAILING EDGE

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
M50 2mm, 2.5mm

M50 torque
3 ft lbs [4 Nm]

End stop
Bumper
Edge of roller carrier
Door opened

Bumper
Secure

Door pull
Jamb edge
Wood door edge

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

Door pull to jamb distance.
*Verify with local jurisdiction.*
2.14  Cover clips

Fig 11

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

2.15  Install brush profile

Fig 12

2.15.1 Measure and cut brush to appropriate length.  
2.15.2 Slide brush into track.
2.16 Install cover

2.16.1 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.

2.17 Install end caps

2.17.1 Snap end caps onto track.