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1 Technical specifications

1.1 Overview

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

1. Wall 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.

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.

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, 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.
2 Installation instructions

2.1 Overall
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” [406] 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.

2.2.2  Use appropriate fasteners according to the following recommendations.

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

![Diagram of single door mount with dimensions and labels]

2.4 Specifications - technical data

<table>
<thead>
<tr>
<th>Wall mount</th>
<th>Single Door M50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door leaf weight lbs [kg] *</td>
<td>≤110lbs [≤50]</td>
</tr>
</tbody>
</table>

* Including weight of auxiliary hardware.
2.5 Installing roller carriers: on monolithic glass ONLY

![Diagram showing roller carriers and end stops](image)

**NOTE:** FULLY CLEAN SURFACE OF GLASS WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER.

**WARNING:** ENSURE GASKET IS FREE OF DEBRIS.

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

2.5.1 Slide roller carriers onto glass.
2.5.2 Slide glass gasket and metal shim between glass and roller carrier.
2.5.3 Secure roller carriers to glass using appropriate-size hex key at 10 ft lbs [14 Nm].

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

2.6 Installing end stops

![Diagram showing end stops and track](image)

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

2.6.1 Slide end stops into each end of the track.

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

2.7.1 Place glass on setting blocks on floor for stability.

2.7.2 Tip glass and rollers upward and rest rollers on track.

2.8 Engaging anti-jump

2.8.1 Temporarily engage anti-jump on roller carrier.

2.8.2 Using appropriate-size ball-end hex key, turn adjustment screw CLOCKWISE to engage anti-jump.
2.9  Install floor guide

Fig 5

2.9.1 Align centerline of glass with centerline of floor guide.
2.9.2 Be sure the glass is plumb.
2.9.3 Mark appropriate floor guide measurements.
2.9.4 **DISSENGAGE ANTI-JUMP.**

2.9.5 **TEMPORARILY REMOVE GLASS AND ROLLERS FROM TRACK.**
2.9.6 Pre-drill into mounting surface using a 5/16" drill bit.
2.9.7 Secure floor guide anchor with included fasteners.

---

2.10  Install floor guide: continued

Fig 6

<table>
<thead>
<tr>
<th>Hex key size</th>
<th>M50 1.5mm</th>
</tr>
</thead>
</table>

2.10.1 **SET GLASS AND ROLLERS BACK ONTO TRACK.**
2.10.2 Slide floor guide over floor guide anchor and tighten with set screws.

2.10.3 Remove setting blocks.

**NOTE:** Be sure glass is centered in floor guide.

2.10.4 Adjust using set screws.
2.11 Adjustment door height

Fig 7

Height adjustment

2.11.1 Set height of glass door.
2.11.2 Using appropriate-size hex key, turn height adjustment screw CLOCKWISE or COUNTERCLOCKWISE to raise or lower glass.

NOTE: Be sure glass is level during this adjustment.

2.11.3 Re-engage anti-jump by turning anti-jump adjustment screw CLOCKWISE.

NOTE: Anti-jump should NOT touch track.
## Adjustment end stop location: LEADING end stop

**Fig 8**

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

**Hex key size**

| M50 | 2mm, 2.5mm |

**Set end stop locations:**

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

**End stop location: LEADING EDGE**

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

- **Door opened**
  - Door pull to jamb distance.

**END STOP LOCATION: TRAILING EDGE**

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

- **Door opened**
  - Door pull to jamb distance.

**Hex key size**

| M50 | 2mm, 2.5mm |

**Set end stop locations:**

2.12.1 Slide end stop to desired location on track. Bumper should touch edge of roller carrier.
2.13  Cover clips

Fig 10

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

2.14  Install brush profile

Fig 11

2.14.1 Measure and cut brush to appropriate length.  
2.14.2 Slide brush into track.
2.15 Install cover

Fig 12

2.15.1 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.

2.16 Install end caps

Fig 13

2.16.1 Snap end caps onto track.