MUNDUS Premium and Comfort
PT40
Overpanel and Sidelite Patch fittings

Installation instructions
942003 – 10-2017
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1 Technical specifications

1.1 Overview

These instructions are for installation of the PT40 Overpanel Patch Fittings for the following mounting and style versions:

1. Glass mounting

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.
• Do not swing doors with excessive force. Install limiting stop to prevent door from opening too far.

1.1.2 Intended use
• For pivoting doors in indoor or covered areas only.
• For manual slowly 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 elements, 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
• Heat-soaked thermally tempered safety 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 is authorized to mount dormakaba glass hardware.

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

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.)
• Function of fittings is recommended to be inspected every 500,000 movements by a specialist.

1.8 Disposal
Disposal in accordance with local, state and national regulations.
1.2 Door dimensions

*NOTE: Pivot point adjustable 2-3/16" - 2-3/4" [55-70]
1.3 Glass thickness/pivot point angle specifications

⚠️ NOTICE

Observe the opening angle of the door. The opening angle for your installation, according to glass thickness, pivot point and patch fitting for overpanel and sidelite PT40, can be found in the table. Use a door stop to avoid damages to the patch fittings.

<table>
<thead>
<tr>
<th>Glass thickness [mm]</th>
<th>2-9/16'' [65]</th>
<th>2-3/4'' [70]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2'' [12]</td>
<td>147°</td>
<td>149°</td>
</tr>
<tr>
<td>5/8'' [16]</td>
<td>144°</td>
<td>147°</td>
</tr>
<tr>
<td>3/4'' [19]</td>
<td>141°</td>
<td>144°</td>
</tr>
<tr>
<td>7/8'' [22]</td>
<td>139°</td>
<td>141°</td>
</tr>
</tbody>
</table>
1.4 Tempered laminate glass (TLG) and adhesive specifications

<table>
<thead>
<tr>
<th>Required parts for laminate glass with MUNDUS System (not included)</th>
<th>Color</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Usage recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ Scotch-Weld™ Urethane Adhesive, DP 605 NS</td>
<td>off white</td>
<td>934.800</td>
<td>1 tube</td>
<td>1 tube per 10 fittings</td>
</tr>
<tr>
<td>3M™ Scotch-Weld™ EPX™ Plus II Applicator with 1:1 Plunger</td>
<td></td>
<td>934.801</td>
<td>1 applicator</td>
<td></td>
</tr>
<tr>
<td>3M™ Scotch-Weld™ EPX™ Plus II Mixing Square Nozzle, 5.3mm</td>
<td>gold</td>
<td>934.802</td>
<td>1 tip nozzle</td>
<td>1 nozzle per 2 fittings</td>
</tr>
<tr>
<td>MUNDUS gasket for TLG</td>
<td></td>
<td>842.821 842.825</td>
<td>1 set</td>
<td></td>
</tr>
</tbody>
</table>

Handling time frame

<table>
<thead>
<tr>
<th>Function</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working life (time between application and clamping of carrier)</td>
<td>5 minutes @ 75°F</td>
</tr>
<tr>
<td>Handling strength</td>
<td>20 minutes @ 73°F or more</td>
</tr>
<tr>
<td>Full cure time (time until glass may be completely installed into door)</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).

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 fitting hardware directly to glass surface.

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

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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. 3 Overall exploded view of entire system

2.2 Install gaskets

Fig. 4

Comfort:
2.2.1 Gaskets are pre-secured to patch plates.
NOTE: Image shown exploded for viewing purpose only.

Premium:
2.2.2 Install TLG gaskets using the pre-adhered double-sided tape strip.
2.2.3 Reassemble patch fitting and fasteners.
NOTE: Keep fasteners loose.
2.3  Install glass and remaining fitting parts

2.3.1 Assemble patch fittings on glass with appropriate insert (pivot/blank/stop).

- Use a 4mm hex key. Hand tighten only.

**NOTE:** Use upper hole in plate.

2.4  Secure and set fitting location

2.4.1 Ensure patch fitting is properly aligned and level.

- Hand tighten using a 4mm hex key.
2.5 Plumb and level the fittings

Fig. 7

2.5.2 Fully tighten fasteners.
- Use a 4mm hex key and torque wrench at the listed torque value.

Legend (torque values)
monolithic glass/TLG

<table>
<thead>
<tr>
<th>9ft lbs / 7.4ft lbs</th>
<th>[12Nm] / [10Nm]</th>
</tr>
</thead>
</table>

Hex key size
4mm

2.6 Setting the pivot/blank/stop

Fig. 8

2.6.1 Set the pivot location for your application.
- Lightly tighten using a 4mm hex key.

Hex key size
4mm

2-3/4" [70]
(US standard)

2-9/16" [65]
### 2.7 Door alignment

**Fig. 9**

NOTE: Ensure doors and patch fittings are level and plumb

![Diagram showing door alignment](image)

### 2.8 Door adjustments

**Fig. 10**

NOTE: If required, adjust the Z-axis.

2.8.1 Loosen screws to adjust.

2.8.2 Then fully tighten. Torque if required. (See images below.)

#### Z-axis

<table>
<thead>
<tr>
<th>Pivot</th>
<th>Blank</th>
<th>Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex key size</td>
<td>11 ft lbs [15Nm]</td>
<td>Hand tight only</td>
</tr>
<tr>
<td>4mm</td>
<td>2mm</td>
<td>2.5mm</td>
</tr>
</tbody>
</table>

#### Glass thickness Tolerance

<table>
<thead>
<tr>
<th>PT40 Comfort</th>
<th>PT40 Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass thickness</td>
<td>Tolerance</td>
</tr>
<tr>
<td>5/8&quot; [16]</td>
<td>± 0&quot; [0]</td>
</tr>
<tr>
<td>7/8&quot; [22]</td>
<td>± 1/8&quot; [3]</td>
</tr>
</tbody>
</table>
2.9 Apply adhesive: (For TLG applications, and glass panels over 118” [2997] high or 330lbs [150kg]. Contact dormakaba for more information.)

![Image of adhesive application](image)

**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.

**NOTE:** Onto scrap material, first dispense approximately 12” of 3M™ Scotch-Weld™ Urethane Adhesive prior to application prevent mixing errors and ensure optimal hardening.

2.9.1 Dispense into holes on both sides of fitting.

![3M™ Scotch-Weld™ EPX™ Plus II Applicator](image)

Stop when adhesive can be seen past end of fitting plate.

**NOTE:** See chart in Specifications section for appropriate curing time.

2.10 Install covers

**Fig. 12**

![Covers application](image)

2.10.1 Snap covers onto patch fittings.

**2.10.2 To remove:**

- Use the plastic prybar to remove the cover.