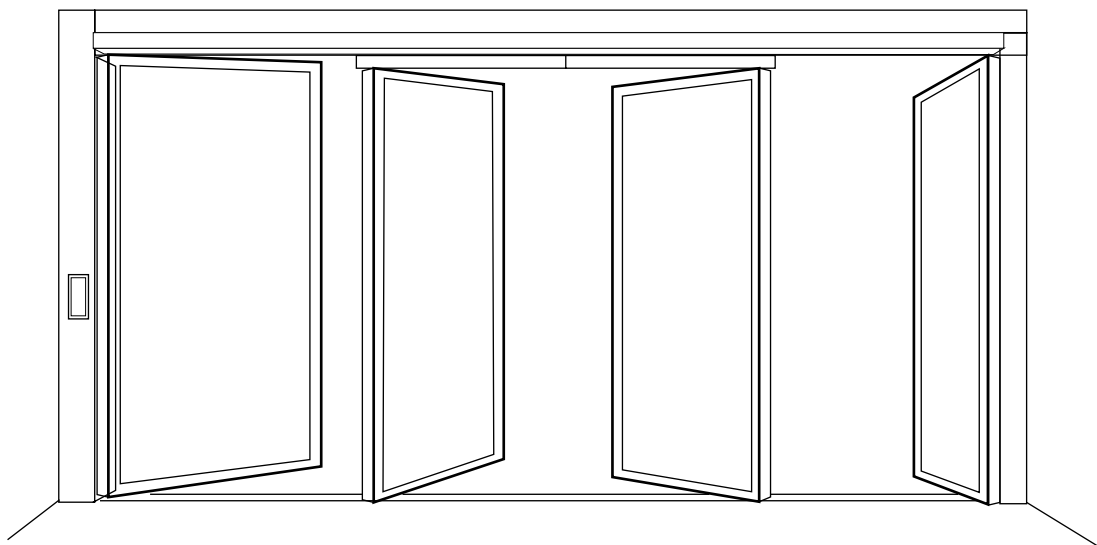




Slimdrive SL-BO TSA 360 NT BO

GB Additional installation instructions

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1 Symbols and illustrations

Important information and technical notes are emphasised in order to illustrate the correct operation.

Symbol	Meaning
	means "important note"; Information on avoiding material damage, understanding a concept or optimising the processes
	means "additional information"
	Symbol for an action: Here you have to do something. ► Observe the sequence if there are several action steps.

2 Product liability

In accordance with the liability of manufacturers for their products as defined in the German "Produkthaftungsgesetz" (Product Liability Act), the information contained in these instructions (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) is to be observed. Non-observance releases the manufacturer from his statutory liability.

3 Safety

3.1 Intended use

The Slimdrive SL-BO and TSA 360 NT-BO are exclusively suitable for use in

- dry rooms
- automatic door systems for horizontally moving door leaves
- entrances and interior areas of pedestrian traffic in commercial plants and public areas

The Slimdrive SL-BO and TSA 360 NT-BO must not be used as fire or smoke control doors.

The Slimdrive SL-BO and TSA 360 NT-BO are approved for use in emergency exits. When the system is not locked, the leaves and side elements can be pivoted open in the direction of emergency exit from any position. The side elements are positively driven and also pivoted open.

3.2 Safety instructions

- The mandatory installation, maintenance and repair work must be performed by properly trained personnel authorised by GEZE.
- The country-specific laws and regulations are to be observed during safety-related tests.
- GEZE shall not be liable for injuries or damage resulting from unauthorised modification of the equipment, and the approval for use in emergency exits is voided when unauthorised changes are made.
- GEZE is not liable if products from other manufacturers are used with GEZE equipment.
- Furthermore, only original GEZE parts may be used for repair and maintenance work.
- The connection to the power supply must be made by a professional electrician. Perform the power connection and equipment earth conductor test in accordance with VDE 0100 Part 610.
- Use a customer-accessible 10-A overload cut-out as the line-side disconnecting device.
- In accordance with Machine Directive 2006/42/EC, a risk analysis must be carried out and the door system identified in accordance with CE Identification Directive 93/68/EEC before commissioning the door system.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:
 - Technical rules for workplaces ASR A1.7 "doors and gates"
 - DIN 18650 "Building hardware – Automatic door systems"
 - VDE 0100, Part 610 "Erection of low-voltage installations"
 - AutSchR "Directive for automatic windows, doors and gates" (for Slimdrive SL NT-FR)
 - Accident-prevention regulations, especially BGV A1 "General regulations" and BGV A2 "Electrical systems and equipment"
 - DIN EN 60335-2-103 "Safety of electrical devices for home use and similar purposes; special requirements for drives for gates, doors and windows"

3.3 Safety-conscious working

- Secure workplace against unauthorised entry.
- Watch pivoting range of long system parts.
- Never carry out work with a high safety risk (e.g. installing the drive, cover or door leaf) while alone.
- Secure the cover/drive panels against falling.
- Use only cables prescribed in the cable plan given. Lay shields in compliance with the wiring diagram.
- Secure loose, internal drive cables with cable ties.
- Before working on the electrical system:
 - Disconnect the drive from the 230 V mains and check to ensure that it is not supplied with power.
 - Disconnect the control from the 24 V battery.
 - Note that if an uninterruptible power supply (UPS) is used the system will still be supplied with power despite the fact that the power supply is disconnected.
- Always use insulated wire-end ferrules for wire cores.
- Attach safety stickers to glass door leaves.
- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts!
- Danger of injury through unsecured crushing, impact, drawing-in or shearing spots!
- Danger of injury by broken glass!
- Danger of injury through sharp edges in the drive!
- Danger of injury during installation through freely moving parts!

3.4 Inspection of the installed system

Measures for security and prevention of pinching, impact, shearing or drawing-in spots:

- Check the functioning of safety sensors and movement detectors.
- The detection field of the movement detector in the direction of emergency exit must cover the opening width x 1.5 m in front of the door.
- The movement detector in the direction of emergency exit (see AutSchR) must detect people moving faster than 0.1 m/s.
- Check protective earth connection to all metal parts that can be touched.
- Perform a safety analysis (risk analysis).

3.5 Environmentally-conscious working

- When disposing of the door system, separate the different materials and have them recycled.
- Do not dispose of batteries and storage cells with household waste.
- Comply with the statutory regulations when disposing of the door system and the batteries and storage cells.

4 Overview

4.1 Diagrams

Slimdrive SL-BO

Number	Type	Description
70485-ep51	Installation diagrams	Slimdrive SL-BO (DCU1) with swing-out side elements
70485-ep35 Bl. 1	Installation diagram	Layout diagram accessories carrier 2-leaf
70485-ep35 Bl. 2	Installation diagram	Layout diagram accessories carrier 1-leaf
70485-9-9801 Bl. 1	Installation instructions	Door leaf Slimdrive SL-BO; 2-leaf left closing, 1-leaf right closing
70485-9-9801 Bl. 2	Installation instructions	Door leaf Slimdrive SL-BO; 2-leaf right closing, 1-leaf left closing
70485-9-9803 Bl. 1	Installation instructions	Side element left, Slimdrive SL-BO
70485-9-9803 Bl. 2	Installation instructions	Side element right, Slimdrive SL-BO
70485-0-005	Overview diagram	Slimdrive SL-BO drives (DCU1)
70485-9-9814	Installation instructions	Information sheet locking
70484-9-9848	Pre-assembly, installation and Service instructions	Slimdrive SL, Slimdrive SL-FR 2M

TSA 360 NT BO

Number	Type	Description
70485-ep50	Installation diagram	TSA 360 NT-BO with swing-out side elements
70485-9-9800 Bl. 1	Installation instructions	Door leaf TSA 360 NT-BO; 2-leaf left closing, 1-leaf right closing
70485-9-9800 Bl. 2	Installation instructions	Door leaf TSA 360 NT-BO; 2-leaf right closing, 1-leaf left closing
70485-9-9802 Bl. 1	Installation instructions	Side element left, TSA 360 NT-BO
70485-9-9802 Bl. 2	Installation instructions	Side element right, TSA 360 NT-BO
70485-0-004	Overview diagram	TSA 360 NT-BO drives (DCU1)
70499-9-0950	Pre-assembly, installation and service instructions	TSA 360NT/TSA 360 NT-FR 2M

Slimdrive SL-BO and TSA 360 NT-BO

Number	Type	Description
70484-9-9889	Supplementary wiring diagram	BO DCU1
70485-9-9810	Installation instructions	Information sheet floor guide roller
70511-9-0968	Wiring diagram	DCU1



The diagrams are subject to change. Use only the most recent version.

4.2 Tools

Tool	Size
Tape measure	
Marking pen	
Torque spanner	
Allen key	2 mm, 2.5 mm, 3 mm, 5 mm, 6 mm
Open-ended spanner	8 mm, 10 mm, 13 mm
Screwdriver set	Slot up to 6 mm
Pin punch	3 mm with point length = 60 mm
Side-cutting pliers	
Crimping pliers for cables	
Wire stripper	
Multimeter	

4.3 Torques

see overview

4.4 Components and assembly groups

Components and assembly groups see overview

5 Installation



- ▶ Secure workplace against unauthorised entry.
- ▶ Always perform work with a second technician.
- ▶ Use a stepladder or step stool.
- ▶ Keep inside area of running rail clean.

5.1 Preparations on site



- ▶ Check the preparations made by the customer to ensure proper installation:
 - Type and loading capacity of the façade construction or base construction
 - Evenness of the installation surface
 - Requirements of the cable plan

5.2 Preparing installation

5.2.1 Preparation of Slimdrive SL-BO

- ▶ Drill holes in line with the local conditions (see installation diagram), use carrier as drilling template if necessary.
- ▶ Prepare cable routing in accordance with local conditions, e.g.:
 - Hold the free (right) end piece to the left-hand side of the girder profile and transfer the cable duct.
 - Remove girder profile at the marked spot.
- ▶ Push girder profile accessories inside and position (see installation diagram).
- ▶ Attach side plates or mounting plates to the girder profile.

With post/bar version:

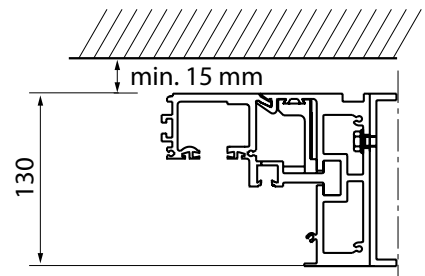
- ▶ Align girder profile to lower edge of bar and screw in place.

For wall-mounting:

- ▶ Align girder profile at the clear passage and screw in place (see installation diagram).

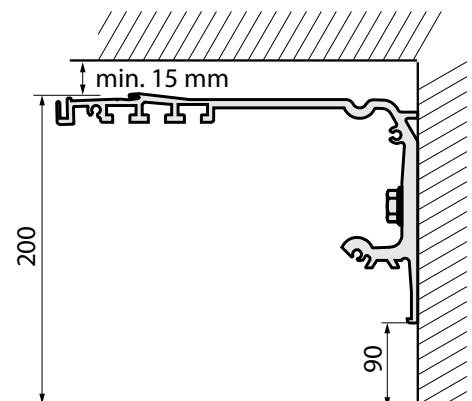
With self-supporting installation:

- ▶ Install girders with mounting plates (see installation diagram).



5.2.2 Preparation TSA 360 NT-BO

- ▶ Drill holes in line with the local conditions (see installation diagram), use running rail as drilling template if necessary.
- ▶ Prepare cable routing in accordance with local conditions.
- ▶ Push the accessories for side element attachment in the running rail profile and position.



For wall-mounting:

- ▶ Attach side elements on the running rail.
- ▶ Screw on running rail.

With self-supporting installation:

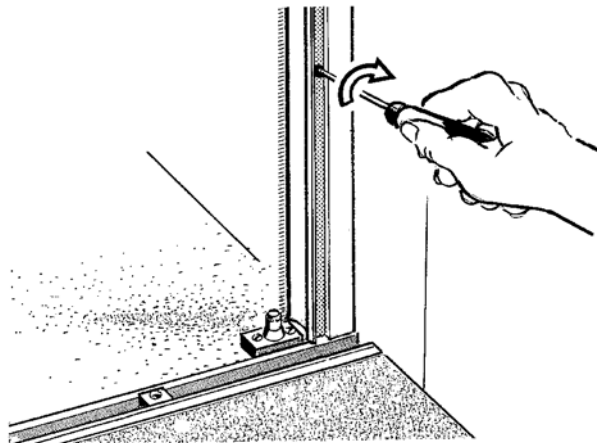
- ▶ Attach mounting plates on the carrier.
- ▶ Install carrier with mounting plates.

5.3 Mounting the floor guide roller

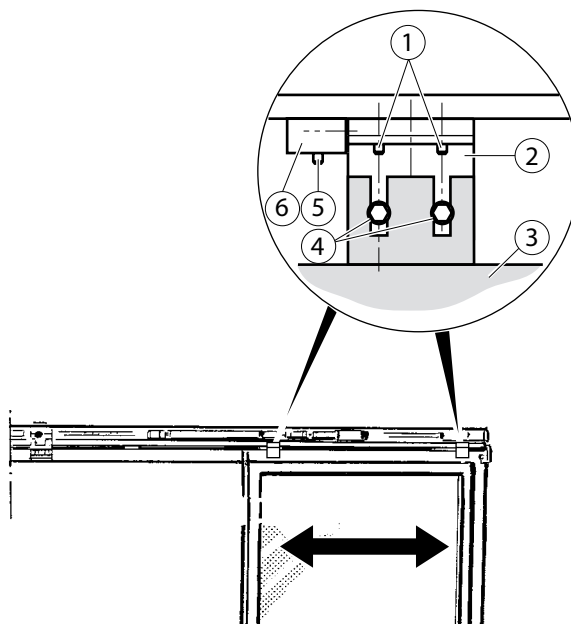
- ▶ Use the plumb to align the curved floor guide on the unfinished floor (see installation diagram) and fix in place.
- ▶ Cover the floor guide roller before pouring the ready-mix concrete in.

5.4 Mounting the side element

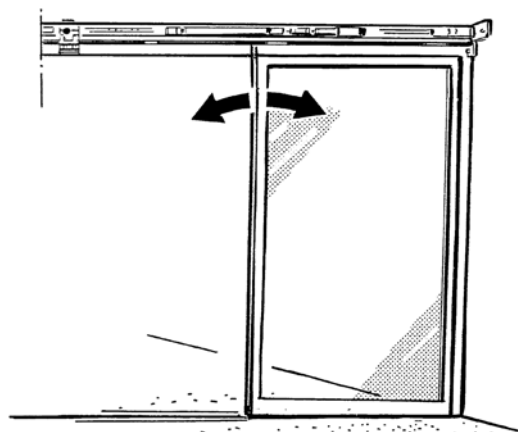
- ▶ Align the wall rail vertically (see installation diagram) and fix in place.
- ▶ Push compensating rail into the wall rail and fix in place.
- ▶ Position side element with retaining rail (see installation diagram).



- ▶ Loosen clamping screws (1) of the side element fastener (2) and screw (5) of the adjustment part (6).
- ▶ Push the side element fastener (2) to the right spot and align it.



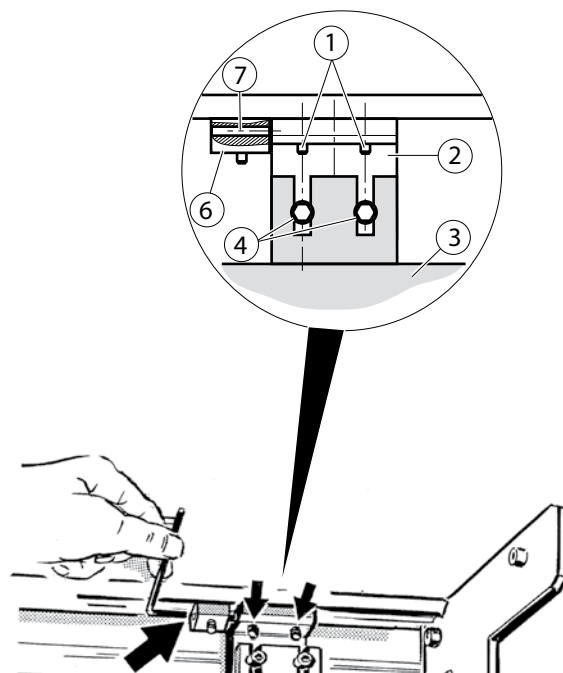
- ▶ Tighten screws (1 and 5) again.
- ▶ Screw side element (3) to the side element fastener (2) using screws (4).



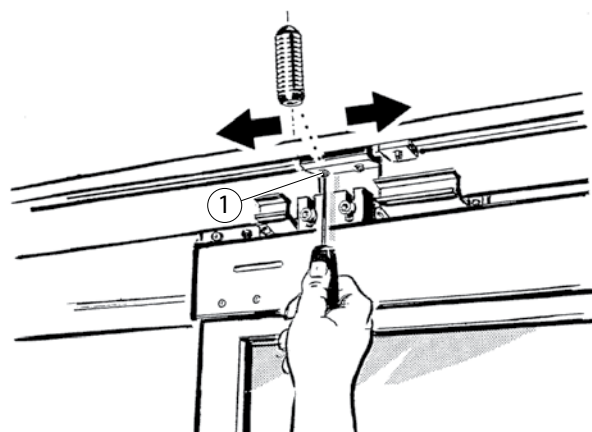
5.5 Aligning the side element

The side elements are aligned using the side element fastener (2) and the adjustment part (6).

- ▶ Open clamping screws (1) on both side element fasteners (2).
- ▶ Align the side elements (3) vertically.
- ▶ If necessary, carry out fine adjustment using the hollow set-screw (7) of the adjustment part (6).

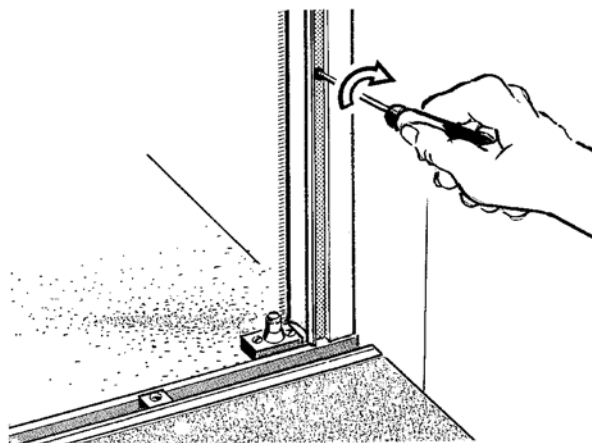


- ▶ Tighten the clamping screws (1) again.



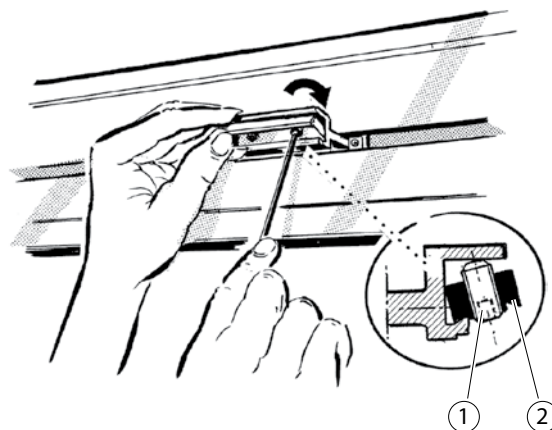
5.6 Aligning the compensation rail

- ▶ Push the compensation rail up to the fixed side screen until the sealing brushes are flush.
- ▶ Fix compensating rail using setscrews.

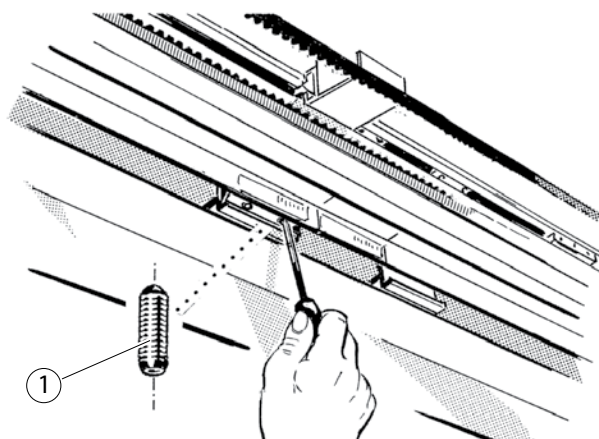


5.7 Mounting drive (only for Slimdrive SL-BO)

- Position clamping ledges (2) (see installation diagram) and fix at an angle using setscrews (1).



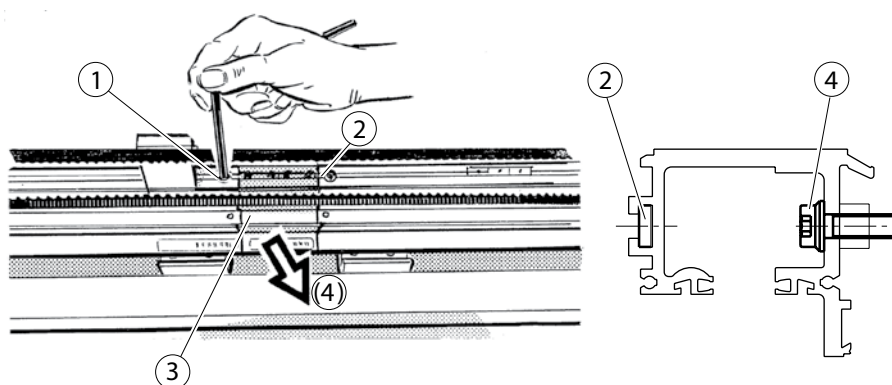
- Hang the drive in the carrier and position it.
- Loosen the setscrews (1) and brace the clamping ledges (2) straight.



5.8 Mounting the locking (optional)

With 2-leaf systems:

- Remove the interim adapter for the locking seat.



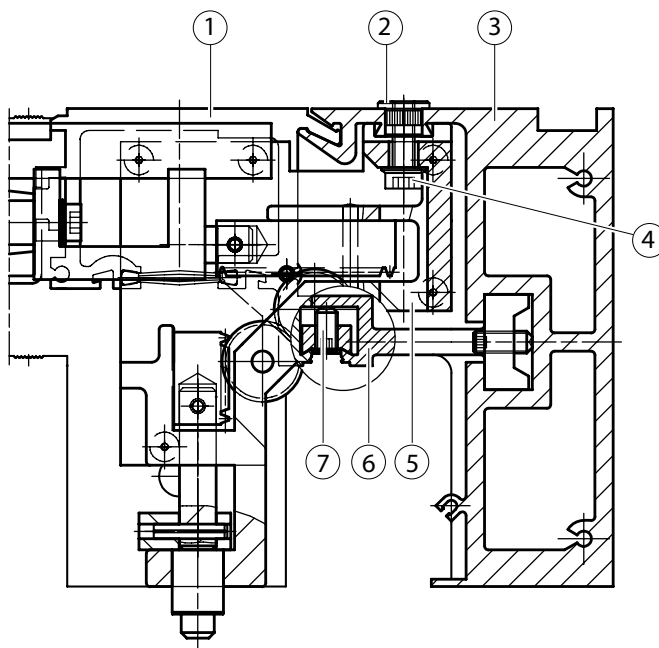
- Loosen setscrew M6 (1), push clamping plates (2) together.
- Remove cylinder head screws M8 (4).
- Remove interim adapter (3).

Insert the locking

- ▶ Insert or press the nut (2) for locking into the drill holes provided in the girder profile (3)

With 2-leaf systems:

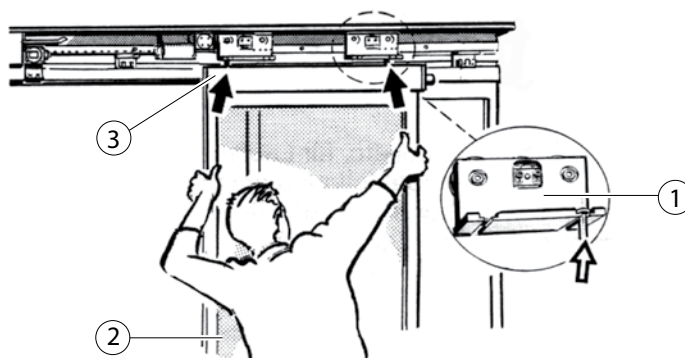
- ▶ Mount the drive (1).
- ▶ Use setscrew (7) to brace the drive with the supporting profiles (6).
- ▶ Insert locking (5) and screw using hollow set-screw (4).



5.9 Fitting the door leaf

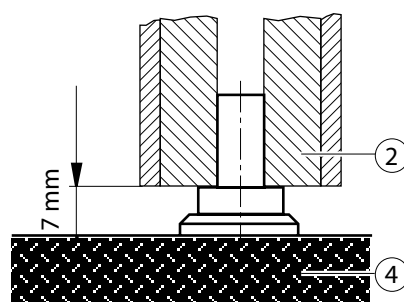
5.9.1 Hang the door leaf (TSA 360 NT-BO)

- ▶ Hang the door leaf (2) with door leaf carriers (3) in the roller carriage (1).

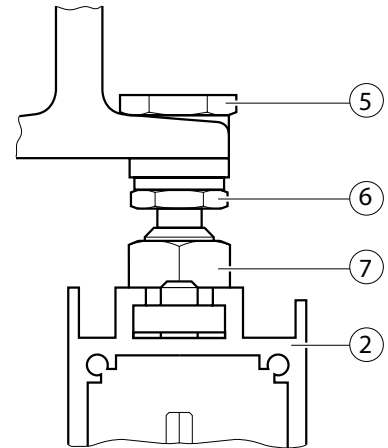


Adjust distance door leaf-finished flooring

The door leaves (2) must be at a distance of 7 mm away from the finished flooring (4).

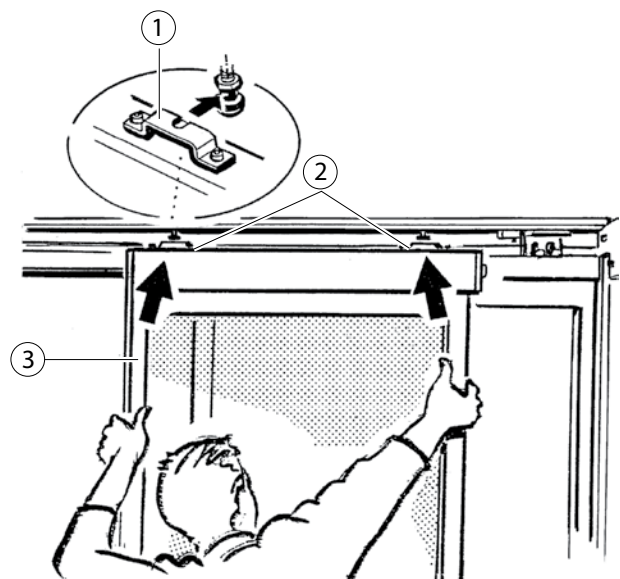


- ▶ Loosen the nuts (6) and (7).
- ▶ Adjust the distance to the finished flooring (4) to 7 mm using the adjusting screw (5).
- ▶ Set the door leaf carrier (3) horizontally using the adjusting screw (5).
- ▶ Tighten the nuts (6) and (7) again.



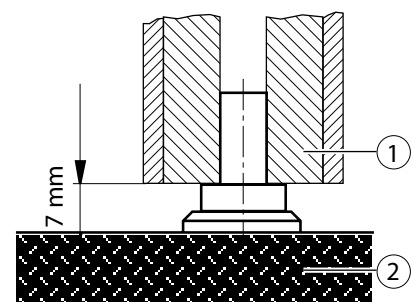
5.9.2 Hang the door leaf in place (Slimdrive SL-BO)

- ▶ Hang the door leaf (3) with door leaf carriers (1) in the roller carriage (2).

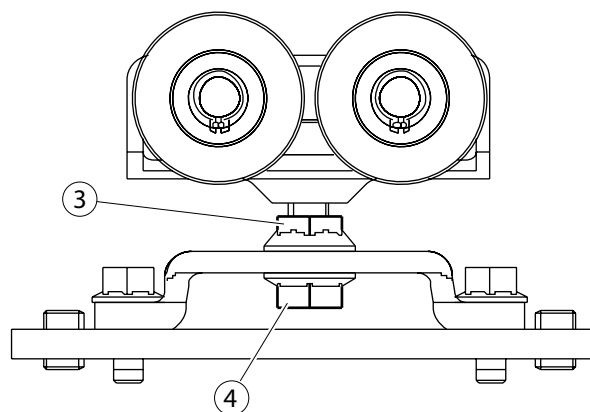


Adjust distance door leaf-finished flooring

The door leaves (1) must be at a distance of 7 mm away from the finished flooring (2).



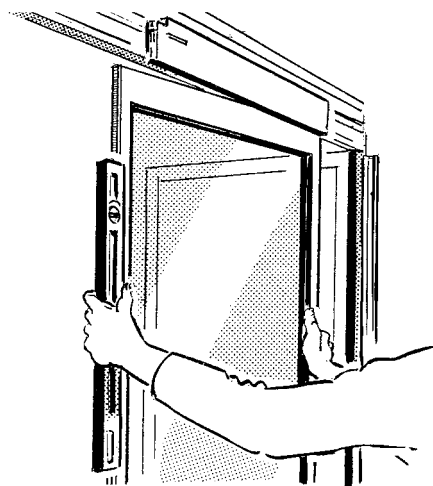
- ▶ Loosen nuts (3) on hanger bolts.
- ▶ Adjust the distance to the finished flooring to 7 mm using the hexagon (4) of the hanger bolts.
- ▶ Align the door leaf carrier horizontally using the hanger bolts.
- ▶ Tighten nuts (3) on hanger bolts again.



Adjusting the door vertically

Do not brace the door. Door must be able to be engaged without problems (see installation diagram).

- ▶ Slightly pivot the door leaf.

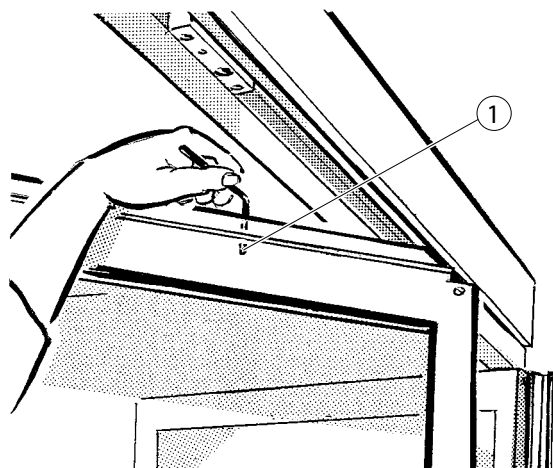


- ▶ Adjust the door leaf using the adjusting screw (1) in the bracket support of the door leaf carrier. Turning the screw anti-clockwise means lifting the lower outer edge of the leaf.

A floor roller mounted invisibly in the bottom outer corner of the casement limits the leaf being lowered during opening to about 3-4 mm. Depending on the floor properties (e.g. grid), a plastic slide can be fitted instead, in the same place on the leaf.

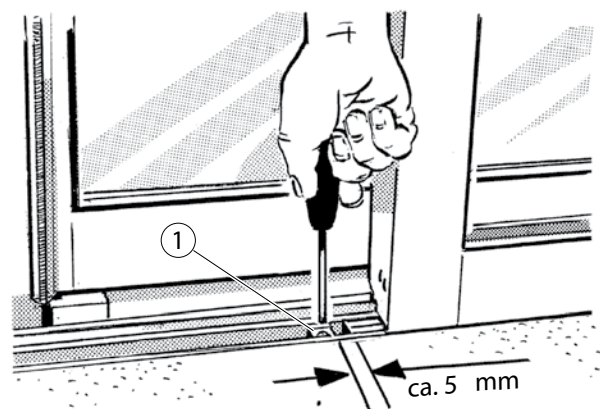
- ▶ Lock the leaf and side element in place and close the door.

The locking must be unlocked. The fixed side screens of the leaf and side element must now be parallel.



5.9.3 Setting the buffer

- ▶ Place the trolley bracket (1) in the curved floor guide in open position approx. 5 mm in front of the floor guide and fix in place.
- ▶ Open and close the doors manually.
- ▶ Check perfect running and buffer setting, re-adjust if necessary.



5.10 Setting the locking (optional)

Adjusting TSA 360 NT-BO in longitudinal direction

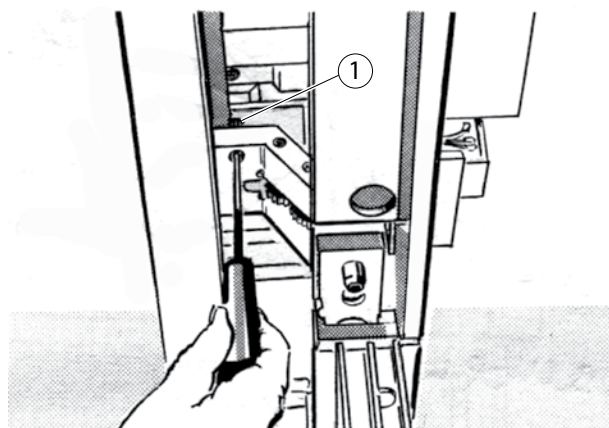


The locking has been pre-adjusted in the factory.

- ▶ Loosen the setscrews (1) and adjust the locking.
- ▶ Tighten the setscrews (1) again.

With 2-leaf BO systems:

- ▶ Set the closing position to the middle of the passage width.



Setting the closing position for drive TSA 360 NT-BO

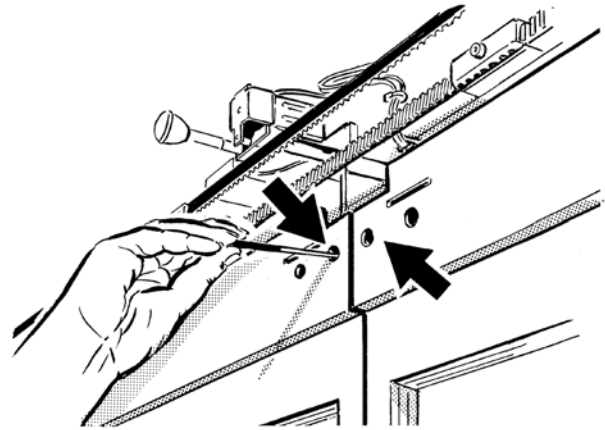
- ▶ Lock the door leaves and side elements in place and close the door.
- ▶ Loosen drive screws.
- ▶ Align leaves to the middle of the passage width and lock by hand.
- ▶ Tighten driver screws.
- ▶ Re-adjust final position buffer if necessary.

Setting the closing position for drive Slimdrive SL-BO

- ▶ Loosen the toothed belt lock on the long driver.
- ▶ Align leaves to the middle of the passage width and lock by hand.
- ▶ Tighten the toothed belt lock on the long driver again.
- ▶ Re-adjust final position buffer if necessary.

Setting the locking bolts

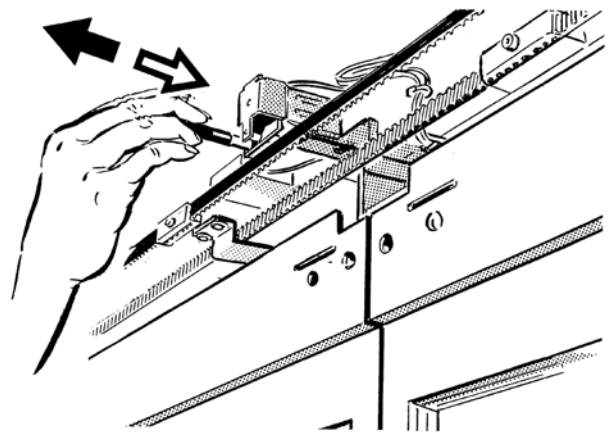
When the leaves are closed and in locked position, the locking bolts must be inserted to the bottom of the bush on the leaves.



- ▶ Loosen the clamping screws of the locking bolts.

The bolts are flush to the bottom of the bush due to their own weight.

- ▶ Tighten the clamping screws again.
- ▶ Check the function of the locking.



6 Breaking out of leaves and side elements

The motor switches off when at least one leaf/side element breaks out of any door position.

6.1 Setting disengagement forces

- ▶ Set the disengagement force or retaining force for each leaf and each side element (see installation diagram).
 - The maximum disengagement force must not exceed 220 N.
 - Leaves and side elements must not disengage by themselves during normal operation.

6.2 Checking panic function

- ▶ Check manual disengagement force in every closing position (closed-half open-open).
 - The disengagement force per leaf or side element must not exceed 220 N.

7 Further installation

Further installation, connection and commissioning work can be found in the pre-assembly, installation and service instructions of the respective drives TSA 360 NT or Slimdrive SL.

8 Troubleshooting

Fault	Cause	Remedy
Door leaves do not move smoothly	Too little floor clearance	► Set floor height (7 mm)
Disengagement forces too high (> 220 N) or too low (wind pressure, suction)	Incorrect setting of the disengagement force	► Relieve or tighten latching elements (see installation diagram)
Door leaf touches the side element	Not enough distance to the side	► Correct the upper suspension in such a way that a distance of 3.5 mm is created at the side
Locking jammed	Locking bolt has no leeway in the locking bush	► Adjust locking
Fault message locking	Locking bolts are not completely inserted	► Re-adjust locking position/door leaf
Motor does not switch off when one or both side elements/leaves swing open	Break-out sensors set incorrectly or are faulty	► Set or replace break-out sensors
Motor does not switch on with side elements/leaves latched in place	Break-out sensors set incorrectly or are faulty	► Set or replace break-out sensors
	Sensing distance set incorrectly	► Set sensing distance correctly
Side element can be swung open manually with the leaf in closed position	Fixed side screens of leaf and side element do not match	► Re-adjust centre of closing system
Door leaf touches side element or has too much leeway at the side. Leaves do not close completely	Leaves and side element do not latch in place.	► Check latching position

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