

GEZE sliding door systems

A combination of functionality, reliability and appealing design



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DOOR TECHNOLOGY



GLASS SYSTEMS



AUTOMATIC DOOR SYSTEMS



SMOKE & HEAT EXTRACTION
AND WINDOW TECHNOLOGY



SAFETY TECHNOLOGY

Product information

Product information for sliding door systems

In accordance with the definition of manufacturers' liability for their products, as set out in § 4 of the "Produkthaftungsgesetz" (German Product Liability Law), the following information regarding sliding door systems must be observed. Failure to do so shall absolve the manufacturer of liability.

Product information and intended usage

Within the context of this definition, sliding door fittings are fittings for slidable doors and other slidable elements (subsequently referred to as "objects") which are not normally moved faster than walking pace. Sliding door fittings are used in vertically installed doors made from wood, plastic, glass, aluminium or steel, or appropriate combinations of these materials. A floor guide is provided at the bottom horizontal edge of the door. Special versions of products must be specified for damp rooms, direct exposure to the elements, exposure to crosswinds, installation near the sea and highly corrosive environments. Correct installation by qualified personnel is a particularly important aspect of intended usage. The fitting must be sufficiently rigid at all of these points. The function of the fitting must not be hindered or altered during installation. Buffers must be used in order to limit the displacement path.

Misuse

Misuse - in other words, use in a manner not in accordance with the intended purpose - can be said to occur in the following cases in particular:

- ▶ The fittings are used with a load that exceeds the maximum capacity specified in the catalogue and in the other product documents.
- ▶ Incorrect installation or inadequate fastening.
- ▶ Ambient temperatures are excessively high or low.
- ▶ Particularly aggressive media has the potential to affect the fittings.
- ▶ Fittings are subjected to inordinately large pushing or pulling loads.
- ▶ The position of the track deviates too greatly from the horizontal.
- ▶ Foreign bodies are able to penetrate the track.
- ▶ The rollers are operated too fast.
- ▶ Alterations are carried out without the manufacturer's authorisation.
- ▶ Obstacles are placed in the opening area or between the doors or objects, thereby preventing intended usage.
- ▶ Additional loads act upon the door or object.
- ▶ A person reaches between the door and the door frame while the door is being slid or closed, or a person or part of the body is in this area while the door is being slid.

Product performance

In cases where the performance of the product is not specified in the catalogues, brochures, performance descriptions or other product instructions etc., requirements for our fittings must be agreed upon with us. Our regulations, which define the configuration of our fittings, are binding.

Product maintenance

Safety-related fitting components must be inspected on a regular basis to ensure they are fastened securely, and for signs of wear. Fixing screws must be re-tightened or replaced as and when required. In addition, the following maintenance work must be carried out at least once a year:

- ▶ All moving parts must be tested for free movement.
- ▶ Only cleaning agents which will not impair the corrosion protection of the fittings may be used.
- ▶ Faulty fittings must be replaced.
- ▶ Adjustment and replacement work on the fittings must be carried out by qualified personnel.

Duties of information and instructions

By way of fulfilling the duties of information and instruction, the following sources of information are available to planners, specialist dealers, installation personnel, building contractors and users:

- ▶ Catalogues and brochures
- ▶ Texts for invitations to tender, offer documents
- ▶ Mounting and installation instructions; installation drawings

In order to ensure the correct use, proper functioning, and correct maintenance and care of the fittings,

- ▶ Architects and planners must request and observe the necessary product information.
- ▶ Specialist dealers must take account of the product information and notes in the price lists, and in particular must request all necessary instructions and pass these on to the installation personnel.
- ▶ All installation personnel must take account of all product information, and in particular, must request operating and maintenance instructions and pass these on to the ordering party and the user.

Fundamental safety aspects for Perlan AUT

Fundamental dangers

- ▶ Dangerous electrical voltages: Perlan AUT equipment is operated at a dangerous electrical voltage. Assembly, disassembly and connection of the control switch and the drive may only be carried out by authorised persons using the tools intended for this purpose. The power supply must be switched off before starting any work, and must be prevented from being switched back on without authorisation.

Power connections

The Perlan AUT may only be connected in accordance with the data from the technical data sheets.
It must be possible for the customer to disconnect any power connections.

Safety precautions

- ▶ Location of the installation instructions: The installation instructions must be retained by the installation or maintenance staff member responsible for this. These people are responsible for both correct installation and maintenance of the system.
- ▶ Removal of safety devices: None of the safety devices may be dismantled or put out of operation. The activities of the authorised service staff constitute an exception in this respect. Following service work, normal operation may only be resumed once all safety devices have been replaced and/or checked.

Spare parts to be used

Only original spare parts from GEZE may be used from maintenance and repair purposes.

Classification according to DIN EN 1527:1998

Category of use (1st number)

No category of use defined.

Duration of operability (2nd number)

- ▶ Class 1 = 2500 cycles
- ▶ Class 2 = 5000 cycles
- ▶ Class 3 = 10,000 cycles
- ▶ Class 4 = 25,000 cycles
- ▶ Class 5 = 50,000 cycles
- ▶ Class 6 = 100,000 cycles

Door weight (3rd number)

- ▶ Class 1 = Door weight up to 50 kg
- ▶ Class 2 = Door weight from 51 kg to 100 kg
- ▶ Class 3 = Door weight from 101 to 330 kg
- ▶ Class 4 = Door weight more than 330 kg

Fire resistance (4th number)

- ▶ Class 0 = Not suitable for use on fire-proof doors
- ▶ Class 1 = Suitable for use on fire-proof doors

Safety (5th number)

No requirement for these products.

Corrosion behaviour (6th number)

According to the 5 classes specified in EN 1670, the products are divided into classes 1 – 4. Class 0 is reserved for untested products.

Protection (7th number)

No class defined for protection.

Type of door (8th number)

- ▶ Class 1 = Sliding door
- ▶ Class 2 = Folding door (double-leaf)
- ▶ Class 3 = Multi-leaf folding door

Initial friction (9th number)

Three classes exist:

Door weight	Up to 50 kg	51-100 kg	101-330 kg	> 330 kg
Class 1	50 N	80 N	100 N	5% of door weight
Class 2	40 N	60 N	5% of door weight	4% of door weight
Class 3	30 N	40 N	4% of door weight	3% of door weight

GEZE Rollan 40N / Rollan 80

Rollan is a quiet roller-guided sliding door system which facilitates straightforward integration of sliding door concepts into indoor areas. Its ability to be mounted on walls or ceilings enables it to be used in a variety of applications, such as passage doors, room partitions and wardrobes.

Product features

- ▶ Construction height of just 29 mm allows for problem-free integration, even into areas where space is at a premium
- ▶ Flat installation surface reduces noise when opening and closing
- ▶ Uniform track for Rollan 40N and 80 - regardless of the leaf material used – means the system can easily be adapted to varying conditions of use
- ▶ Classic design – no obtrusive edges – that can also be used without a cover
- ▶ Certified according to DIN EN 1527:1998
- ▶ Leaf weight up to 40 kg (Rollan 40N)
Leaf weight up to 80 kg (Rollan 80)
- ▶ Durability: even after 50,000 cycles, the sliding force is < 20 N (Rollan 40N) or < 25 N (Rollan 80)
Long-term smooth running with minimum effort
- ▶ Closed aluminium track provides protection against dust and dirt
- ▶ Straightforward direct mounting on the ceiling, or mounting using angle brackets on the ceiling and wall
- ▶ Gap between door leaf and track can be easily adjusted; readjustment is also possible, even with the system already installed

Application range

- ▶ For wooden, metal and plastic door leaves with a leaf weight of up to 40 kg or 80 kg; a clamping plate is available for glass door leaves
- ▶ For all single and multi-leaf sliding doors
- ▶ Particularly suitable for doors in living and office areas thanks to quiet running

Standard version/Scope of delivery

Track with angle bracket
2 roller carriages with suspension bolts,
2 carrier plates, 1 floor guide and 2 tube buffers
(Rollan 80 with additional hold-open springs)

Special version

As an alternative option, the track (6 m in length or cut to size) and the accessories may be ordered separately.

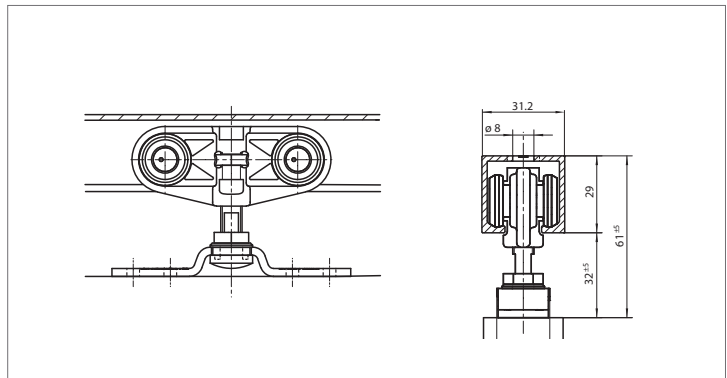


Fig. 05-1

Classification according to DIN EN 1527:1998 (see page 5)

Rollan 40N								
-	5	1	0	-	1	-	1	3

Rollan 80								
-	5	2	0	-	1	-	1	3

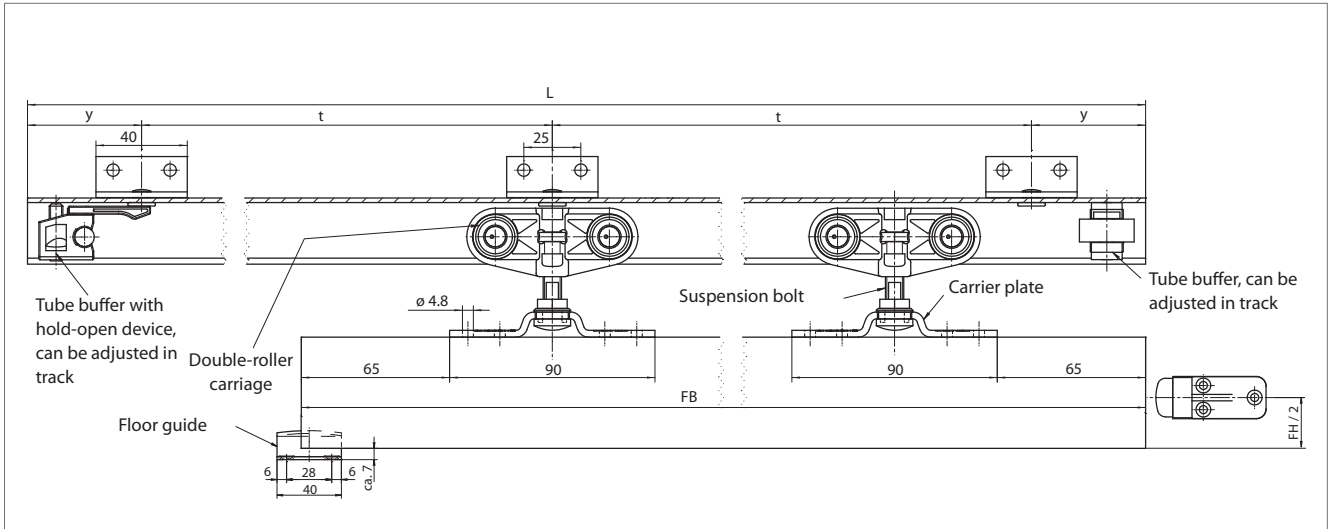


Fig. 07-1

Standard mounting

The procedure for mounting GEZE Rollan 40N/80 on a single-leaf wooden sliding door with a carrier plate is illustrated in Fig. 07-1.

The fitting may be mounted directly on the ceiling or, using a bracket or a plate, may be mounted on the ceiling or wall (see Fig. 07-2).

Installation drawing

Drawing no. 10417-ep03

Note:

Removable panels must be installed to enable access to wall recesses.

The door leaf must be secured using a bracket buffer in addition to the tube buffer.

The buffers must be installed halfway up the height of the door.

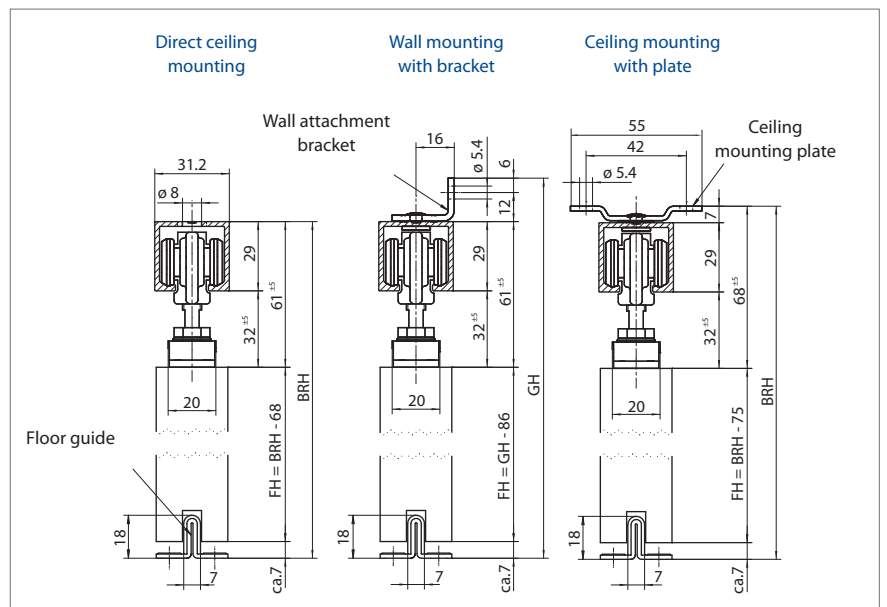


Fig. 07-2

Key

- LW = Leaf width (mm)
- L = Track length (mm)
- t = Hole clearance (mm)
- x = Number of wall/ceiling attachment brackets
- y = Clearance (mm) from end of track to centre of drill hole for angle bracket
- BL = Bearing length (mm)
- LH = Leaf height (mm)
- CH = Construction height (mm)
- OH = Overall height (mm)

Standard dimensions (mm)				
LW	L	t	x	y
510 - 700	1150	350	4	50
710 - 900	1650	450	4	150
810 - 1000	1800	400	5	100
910 - 1100	1900	450	5	50
1110 - 1300	2350	450	6	50
1310 - 1500	2800	450	7	50
1510 - 1700	3250	450	8	50
LH	6100	350	18	50

GEZE glass clamping plate

GEZE's new glass clamping plate offers increased ease of mounting without the need for costly glass preparation measures.

Product features

- ▶ 1/3 smaller in height and reduced length when compared with predecessor version
- ▶ Option of concealing a single clamping plate or using a continuous cover to conceal both plates. Full concealment of the carrier plates gives the appearance of a continuous clamping plate; this can also be obtained in any RAL colour.

The gap between the clamping plate and track is barely visible, eliminating the need for the customer to conceal it.

- ▶ Can be used with all standard glass thicknesses. The interior interlocking enables the clamping plate to be adjusted to suit the glass thickness, making mounting and removal considerably easier.

Application areas

- ▶ All GEZE sliding door systems
- ▶ 8 mm, 10 mm and 12 mm toughened safety glass
- ▶ Can be used with a load-bearing capacity of up to 140 kg

GEZE glass clamping plate – Ordering information

Description	Id. no.
Glass clamping plate set, 2 pcs, without covers, raw aluminium surface (standard)	125586
With individual screens (EV1) and end face covers	125585
With individual screens (RAL) and end face covers	126216
With full concealment of both plates in EV1 or RAL and end face covers	125588
Accessories can also be supplied separately.	
End face covers, black plastic	125582
End face covers, RAL plastic	127498
Cover profile length: 6 m	126107
Cover profile, cut to size, EV1	127628
Cover profile, cut to size, RAL	126108

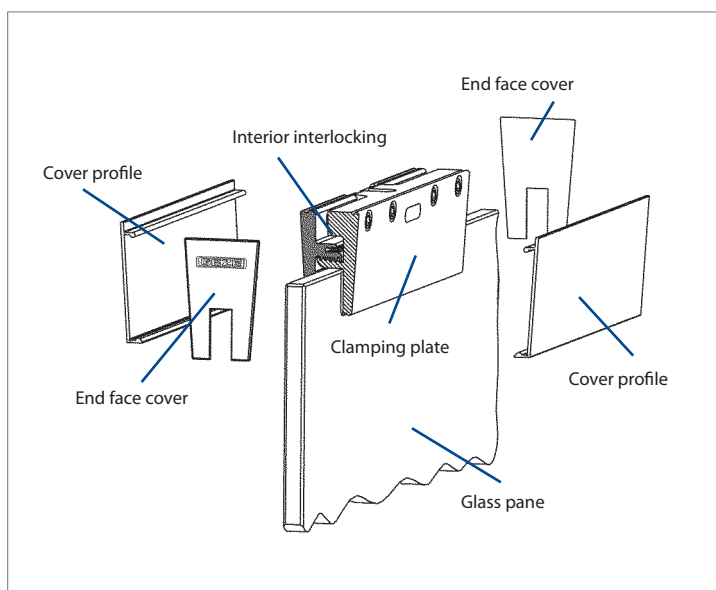


Fig. 08-1

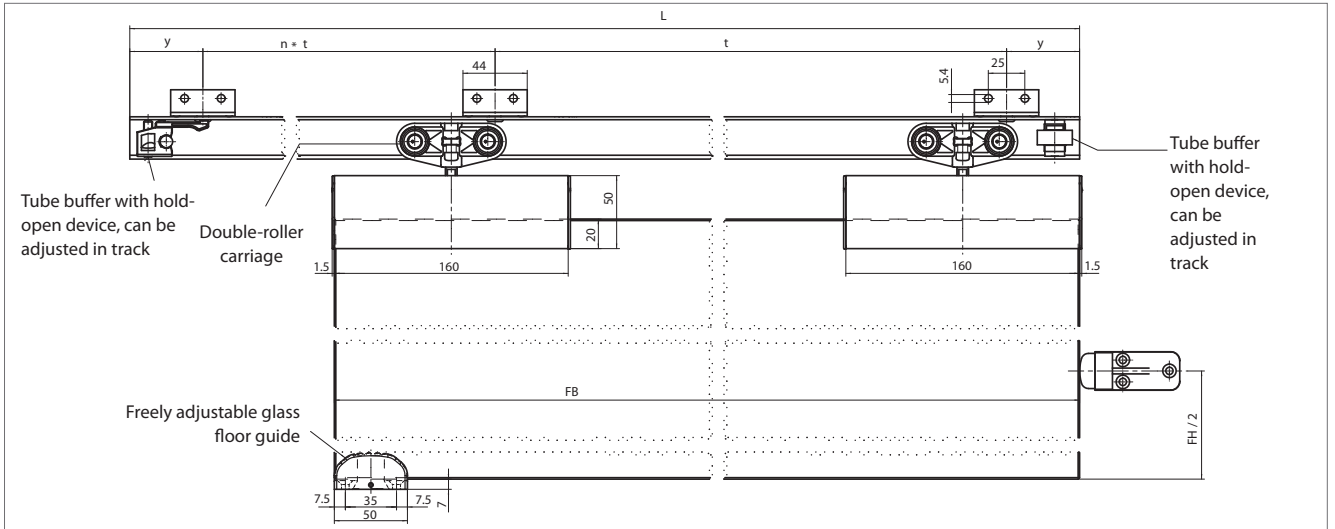


Fig. 09-1

Standard mounting on glass leaves

The procedure for mounting GEZE Rollan 40N/80 on a single-leaf glass sliding door using a glass clamping plate is illustrated in Fig. 09-1.

The fittings can be mounted directly or using a plate (for ceilings) or a bracket (for walls); see Fig. 09-2

Installation drawing

Drawing no. 10417-ep04

Note:

Removable panels must be installed to enable access to wall recesses.

The door leaf must be secured using a bracket buffer in addition to the tube buffer.

The buffers must be installed halfway up the height of the door.

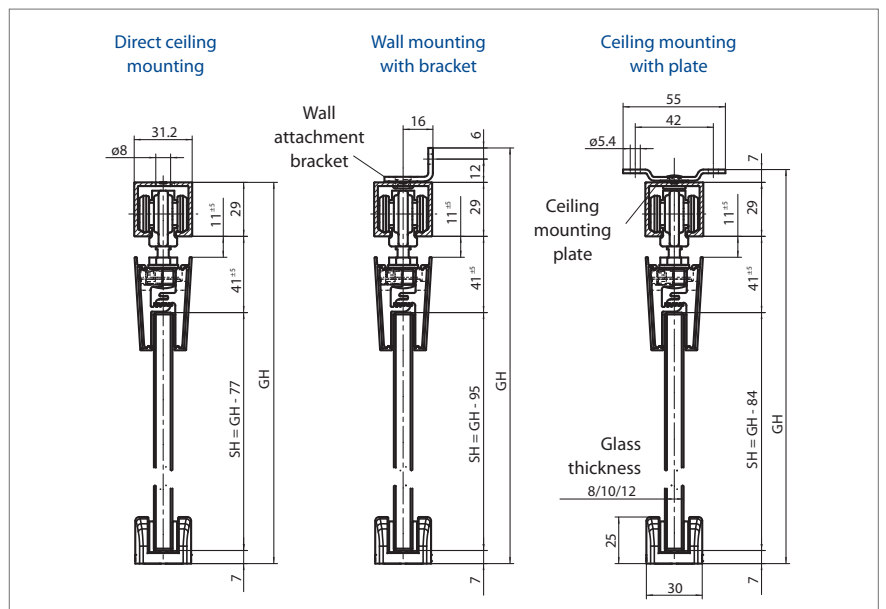


Fig. 09-2

Glass floor guide, freely adjustable

Product features

- ▶ The floor guide for glass with a thickness of between 8 and 12 mm can be freely adjusted with both ease and precision.

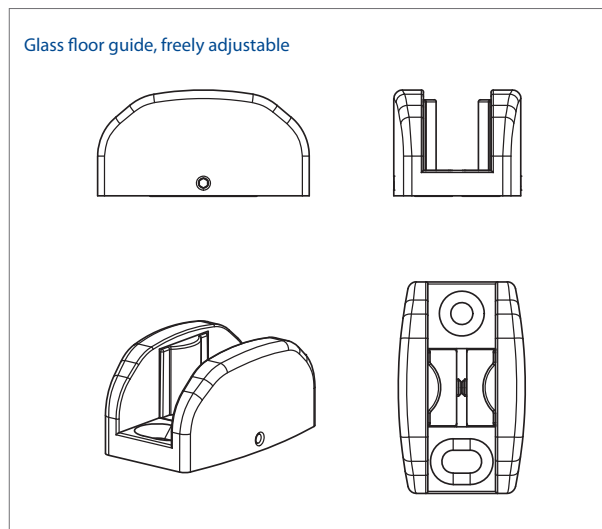


Fig. 09-3

GEZE Rollan – Ordering information

Description	Leaf width (cm)	ID no.
Complete sets:		
GEZE Rollan 40N sliding door fitting complete with accessories (incl. wall attachment bracket)	51 - 70	120162
	71 - 90	120163
	81 - 100	120164
	91 - 110	120165
	111 - 130	120166
	131 - 150	120167
	151 - 170	120168
GEZE Rollan 80 sliding door fitting complete with accessories (incl. wall attachment bracket)	51 - 70	120169
	71 - 90	120170
	81 - 100	120171
	91 - 110	120172
	111 - 130	120173
	131 - 150	120174
	151 - 170	120175
Individual parts:		
Rollan 40N/80 track (up to 6 m in length)		120150
Track, cut to size		120151
Wall attachment bracket		069990
Ceiling bracket		069991
GEZE Rollan 40N accessory set without wall attachment bracket	51 - 150	120306
GEZE Rollan 40N accessory set with wall attachment bracket	51 - 110	120307
	111 - 150	120308
GEZE Rollan 80 accessory set without wall attachment bracket	51 - 150	120176
GEZE Rollan 80 accessory set with wall attachment bracket	51 - 110	120177
	111 - 150	120178
GEZE Glass clamping plate		See page 7
Coupling piece with suspension bolt		026432
Adjustable glass floor guide		120417
Tube buffer with hold-open device		120161
Angle buffer		000339
Adjustable hold-open device		069272



GEZE Rollan · Care home in Heidenheim, Germany



GEZE Rollan · Adjustable hold-open device; can be adjusted to suit the leaf weight

GEZE Perlan 140

The inconspicuous design of this sliding door system is the perfect match for any room, no matter the impact you want to create. Together with its wide range of accessories, it enables you to create elegant and individual solutions.

Product features

- ▶ Installation height of 40 mm
- ▶ Certified according to DIN EN 1527:1998
- ▶ Highly durable: even after 100,000 operation cycles, the sliding force is still < 20 N
- ▶ Corrosion resistance class 2 acc. to DIN EN 1670
- ▶ Consistently quiet running thanks to two precision ball bearings in each roller carriage, special track shape, rubber bearings for door suspension plate and rollers with large dimensions
- ▶ Embedded and sealed ball bearing
- ▶ Anodised light metal alloy used for track reduces abrasion
- ▶ No obtrusive edges visible on the profile
- ▶ All accessory components are hidden in the track in order to maintain the aesthetic appeal
- ▶ Optimum load distribution thanks to 3-pendulum suspension
- ▶ Straightforward, direct ceiling mounting, or ceiling and wall mounting using brackets
- ▶ Gap between leaf and wall adjustable, enabling precisely the right setting to be made for the situation in question (e.g. precise door mounting, even with inaccuracies in the wall)
- ▶ High-quality materials and workmanship allow long-term usage in highly frequented living and working areas

Application range

- ▶ For wooden, plastic and metal doors with up to 140 kg leaf weight; clamping plate available for glass leaves
- ▶ For all single, multi-leaf and synchronised sliding doors
- ▶ Due to its low running noise, it is especially suitable for doors in living and office areas

Standard version/Scope of delivery

Track for direct ceiling mounting (option: bracket for wall mounting), 2 roller carriages with suspension bolts, 2 carrier plates, 1 floor guide, 2 tube buffers with 1 hold-open spring

Special version

As an alternative, the track (6 m in length or cut to size) and the accessories may be ordered separately. A curved track is also available on request.

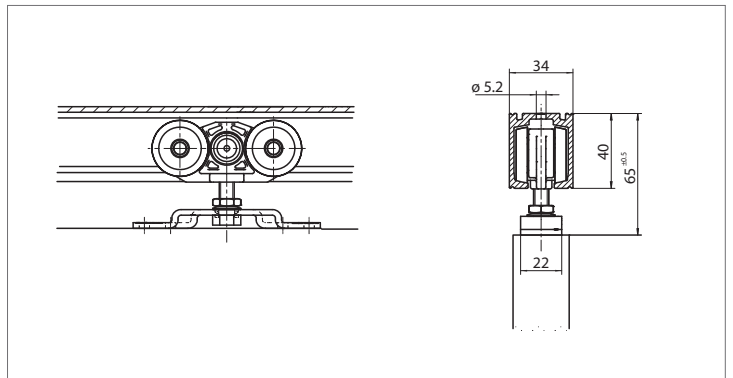


Fig. 11-1

Classification according to DIN EN 1527:1998 (see page 5)

Perlan 140								
-	6	3	0	-	2	-	1	3

Perlan KS								
-	6	3	0	-	4	-	1	3

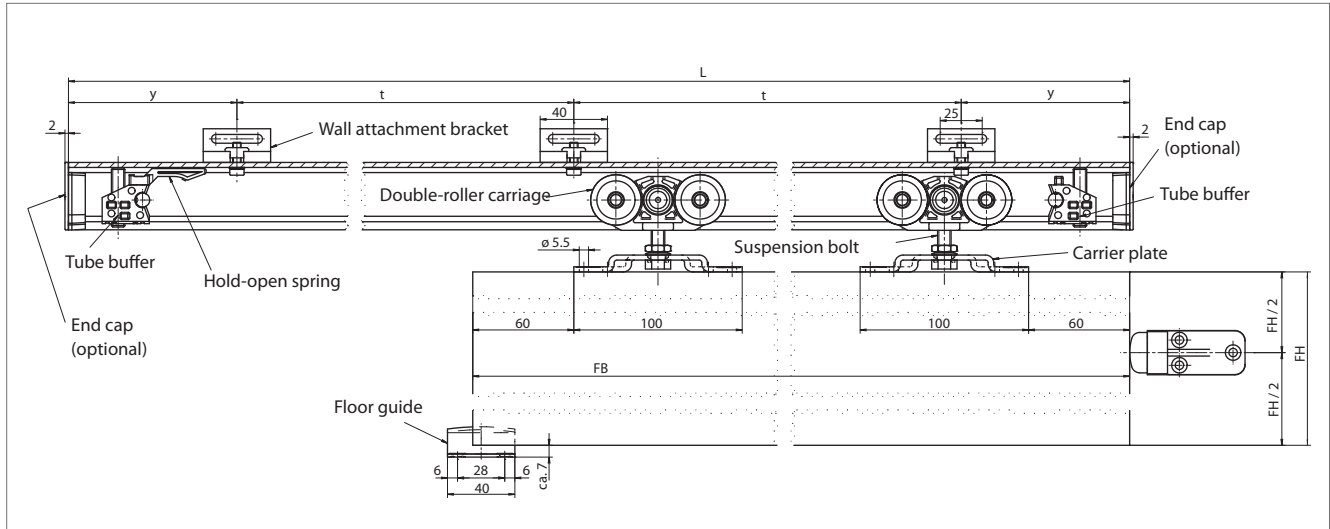


Fig. 12-1

Standard mounting

The procedure for mounting GEZE Perlan 140 on a single-leaf wooden sliding door with a carrier plate (manual) is illustrated in Fig.12-1.

The fitting may be mounted directly on the ceiling or, using a bracket or plate, may be mounted on the wall or ceiling (see Fig. 12-2).

Installation drawing

Drawing no. 10421-ep05

Note:

Removable panels must be installed to enable access to wall recesses.

The door leaf must be secured using a bracket buffer in addition to the tube buffer.

The buffers must be installed halfway up the height of the door.

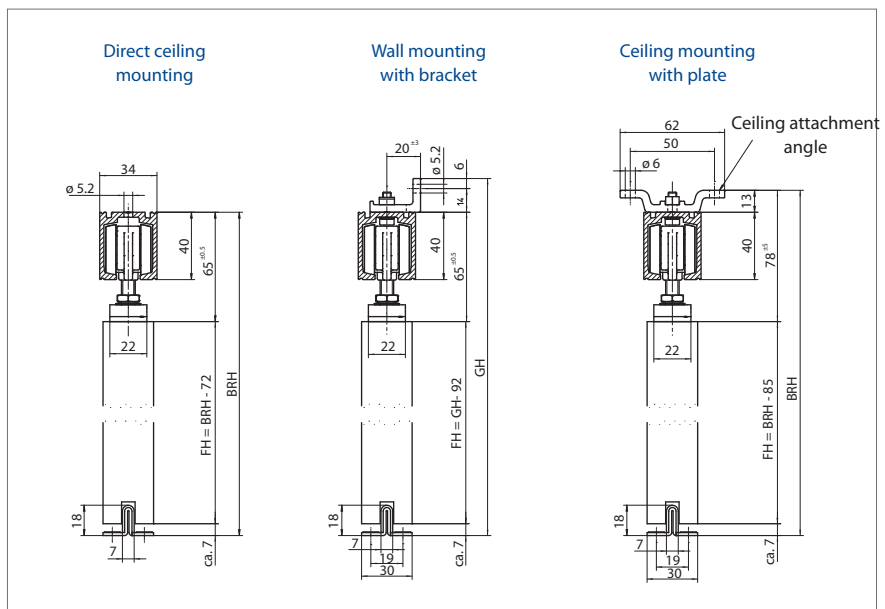


Fig. 12-2

Standard dimensions (mm)				
LW	L	t	x	y
510 - 700	1250	350	4	100
710 - 900	1650	350	5	125
910 - 1100	2050	350	6	150
1110 - 1300	2450	350	7	175
1310 - 1500	2850	350	9	25
1510 - 1700	3250	350	10	50
BL	6000	350	18	25

Key

- LW = Leaf width (mm)
- L = Length of track (mm)
- t = Hole clearance (mm)
- x = Number of wall/ceiling attachment brackets
- y = Clearance (mm) from end of track to centre of drill hole for angle bracket
- BL = Bearing length (mm)
- LH = Leaf height (mm)
- CH = Construction height (mm)
- OH = Overall height (mm)

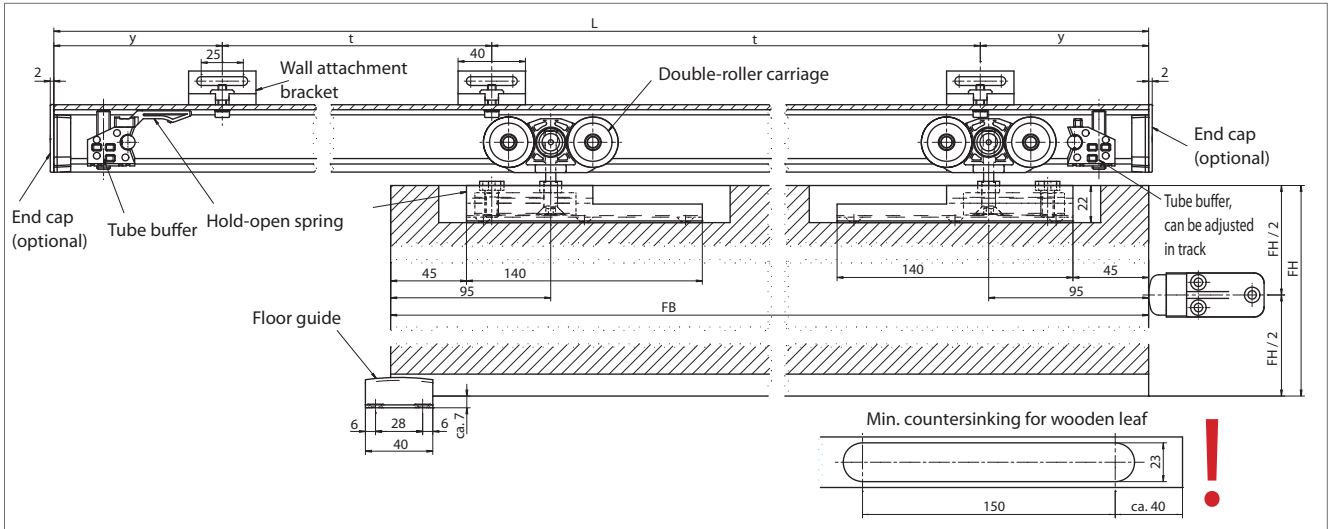


Fig. 13-1

Mounting with concealed carrier plate

The procedure for mounting GEZE Perlan 140 on a single-leaf wooden sliding door with a concealed carrier plate is illustrated in Fig. 13-1

The fitting may be mounted directly on the ceiling or, using a bracket or plate, may be mounted on the wall or ceiling (see Fig. 13-2).

Installation drawing

Drawing no. 10421-ep06

Note:

Removable panels must be installed to enable access to wall recesses.

The door leaf must be secured using a bracket buffer in addition to the tube buffer.

The buffers must be installed halfway up the height of the door.

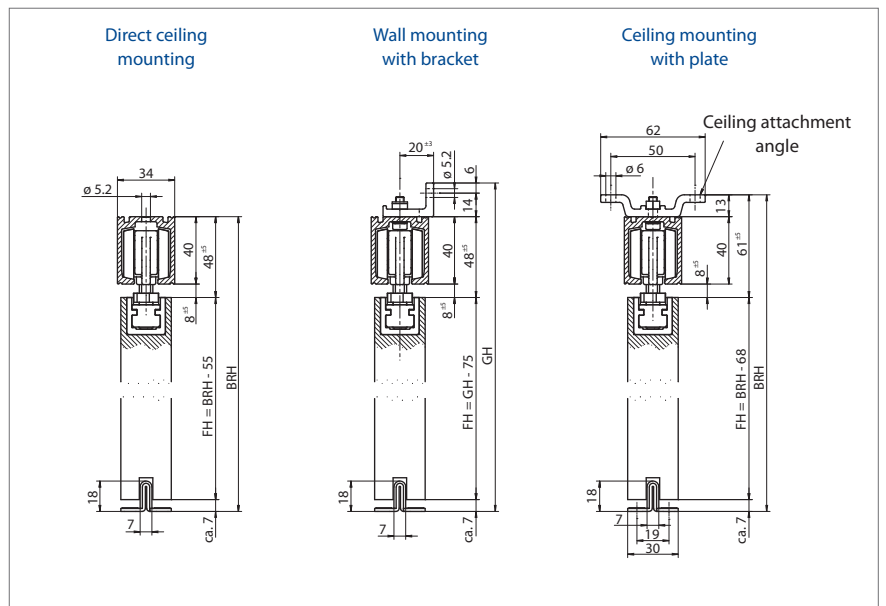


Fig. 13-2

Concealed carrier plate

Product features

- ▶ Thanks to the concealed carrier plate in the wooden leaf, the gap between the track and the door leaf is kept to a minimum.
- ▶ Visible, obtrusive carrier plates are a thing of the past.
- ▶ No need for the customer to install covers

Installation drawing

Drawing no. 10421-0-076



Concealed carrier plate keeps the distance between the track and door leaf to a minimum

GEZE glass clamping plate

GEZE's new glass clamping plate offers increased ease of mounting without the need for costly glass preparation measures.

Product features

- ▶ 1/3 smaller in height and reduced length when compared with predecessor version
- ▶ Option of concealing a single clamping plate or using a continuous cover to conceal both plates. Full concealment of the carrier plates gives the appearance of a continuous clamping plate; this can also be obtained in any RAL colour.

The gap between the clamping plate and track is barely visible, eliminating the need for the customer to conceal it.

- ▶ Can be used with all standard glass thicknesses. The interior interlocking enables the clamping plate to be adjusted to suit the glass thickness, making mounting and removal considerably easier.

Application areas

- ▶ All GEZE sliding door systems
- ▶ 8 mm, 10 mm and 12 mm toughened safety glass
- ▶ Can be used with a load-bearing capacity of up to 140 kg

GEZE glass clamping plate – Ordering information

Description	Id. no.
Glass clamping plate set, 2 pcs, without covers, raw aluminium surface (standard)	125586
With individual screens (EV1) and end face covers	125585
With individual screens (RAL) and end face covers	126216
With full concealment of both plates in EV1 or RAL and end face covers	125588
Accessories can also be supplied separately.	
End face covers, black plastic	125582
End face covers, RAL plastic	127498
Cover profile length: 6 m	126107
Cover profile, cut to size, EV1	127628
Cover profile, cut to size, RAL	126108

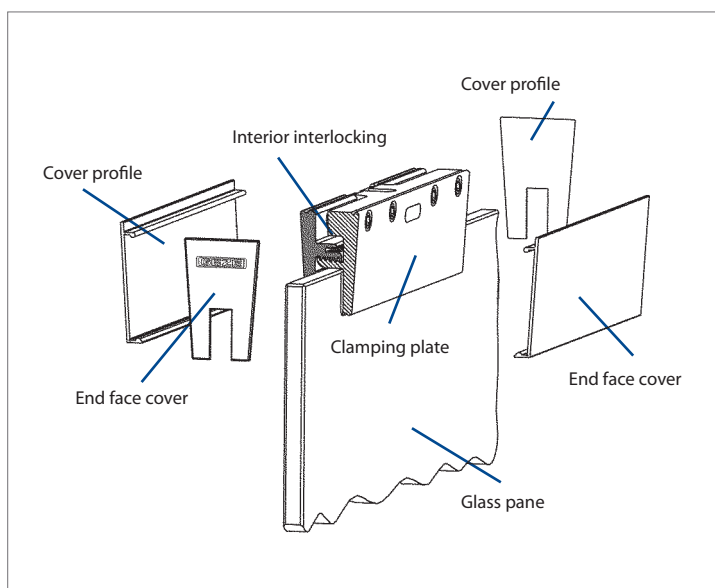


Fig. 14-1

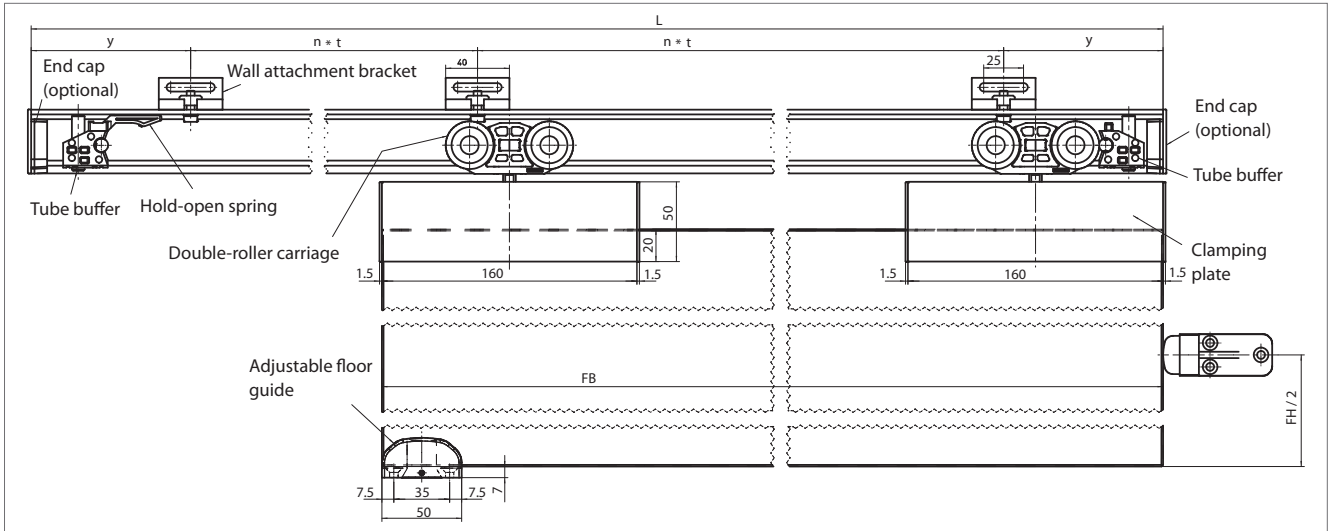


Fig. 15-1

Standard mounting on glass leaves

The procedure for mounting GEZE Rollan 140 on a single-leaf glass sliding door with a glass clamping plate is illustrated in Fig. 15-1

The fitting may be mounted directly on the ceiling or, using a plate or bracket, may be mounted on the ceiling or wall (see Fig. 15-2).

Installation drawing

Drawing no. 10421-ep07

Glass floor guide, freely adjustable

Product features

- ▶ The floor guide for glass with a thickness of between 8 and 12 mm can be freely adjusted with both ease and precision.

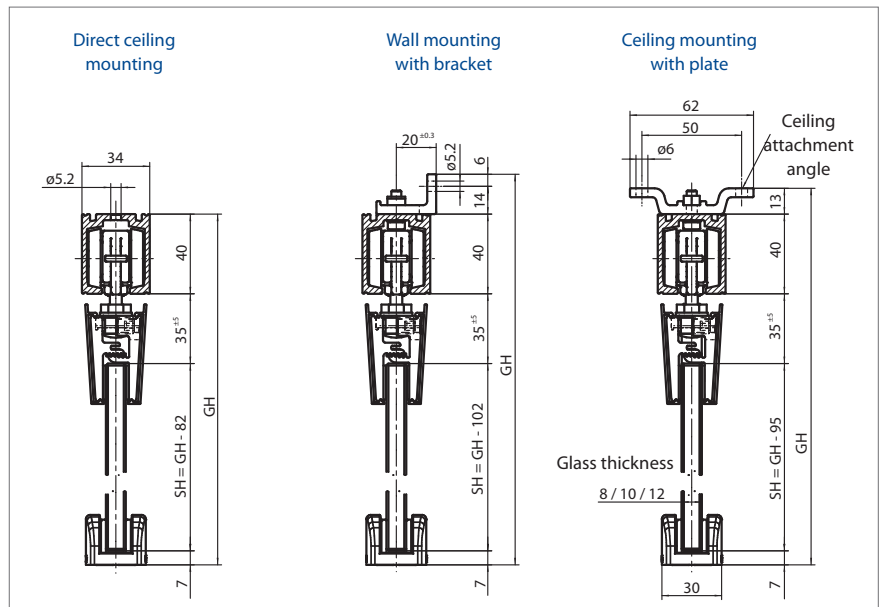


Fig. 15-2

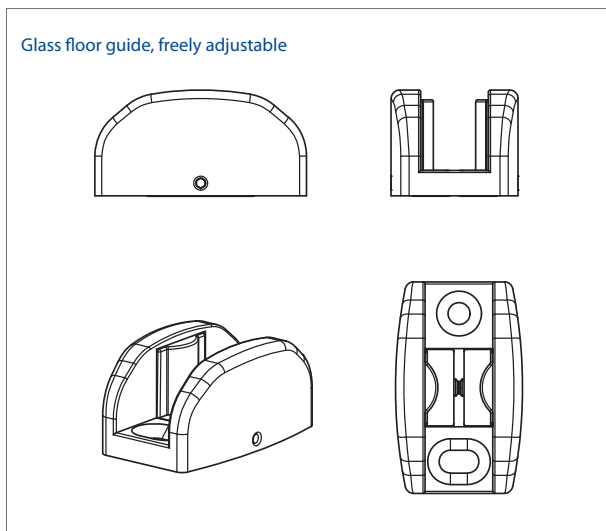


Fig. 15-3



GEZE Perlan 140 GGS

Design features

- ▶ Attractive, hand-polished stainless steel point supports
- ▶ Track is suitable for mounting on walls or ceilings (guide rail), enabling flexible usage in any type of area
- ▶ Height of glass point supports can be adjusted

Technical product features

- ▶ Consistently quiet running thanks to two precision ball bearings inside each roller carriage, special track shape and rollers with large dimensions
- ▶ Track is made from an anodised light metal alloy, which minimises friction
- ▶ Straightforward wall and ceiling mounting
- ▶ Distance between the leaf and wall can be adjusted
- ▶ Freely adjustable glass floor guide for different glass thicknesses
- ▶ Tested according to DIN EN 1527:1998
- ▶ Class 2 corrosion resistance

Application areas

- ▶ Living and office areas
- ▶ Single and multi-leaf sliding doors
- ▶ Room and cupboard doors
- ▶ For use as a partition and a screen

Standard version

Track for direct ceiling mounting, or with option of bracket for wall mounting, 2 roller carriages with suspension bolts, 2 carrier plates, floor guide, 2 tube buffers, hold-open spring, 2 stainless steel GGS point supports

Special version

If required, a curved version of the Perlan track or a stainless steel finish can also be obtained.

GEZE Perlan 140 GGS – Ordering information

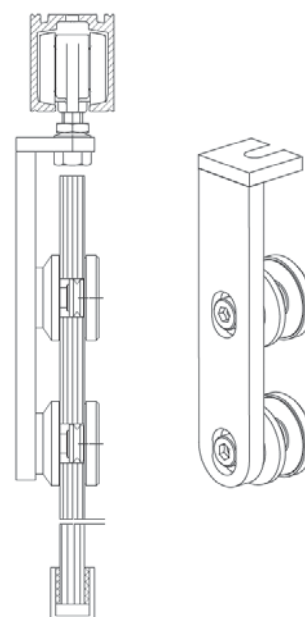
Description	ID no.
Perlan 140 GGS set Glass; 8 mm, 10 mm, 12 mm	127961
Perlan 140 GGS set Wood; 15 mm - 50 mm, special design	127962



GEZE Perlan 140 GGS · Wall mounting



GEZE Perlan 140 GGS · Ceiling mounting



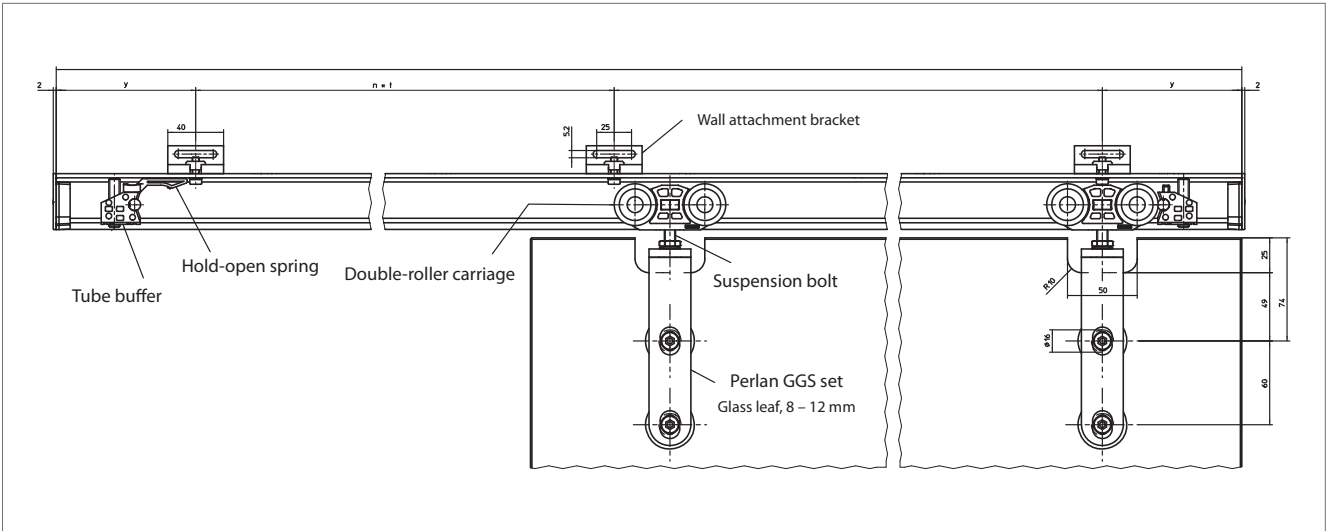


Fig. 17-1

Perlan GGS mounting with glass leaf

The procedure for mounting GEZE Perlan 140 GGS on a single-leaf glass sliding (manual) is illustrated in Fig. 17-1.

The fitting may be mounted directly on the ceiling or, using a bracket, may be mounted on the wall (see Fig. 16-7).

Installation drawing

Drawing no. 10421-ep32

Note:

Removable panels must be installed to enable access to wall recesses.

The door leaf must be secured using a bracket buffer in addition to the tube buffer.

The buffers must be installed halfway up the height of the door.

Key

- L = Track length (mm)
- n * t = Attachment clearance (mm)
- y = Clearance (mm) from end of track to centre of drill hole for attachment bracket
- PH = Pane height (mm)
- PW = Pane width (mm)
- OH = Overall height (mm)
- OW = Opening width (mm)

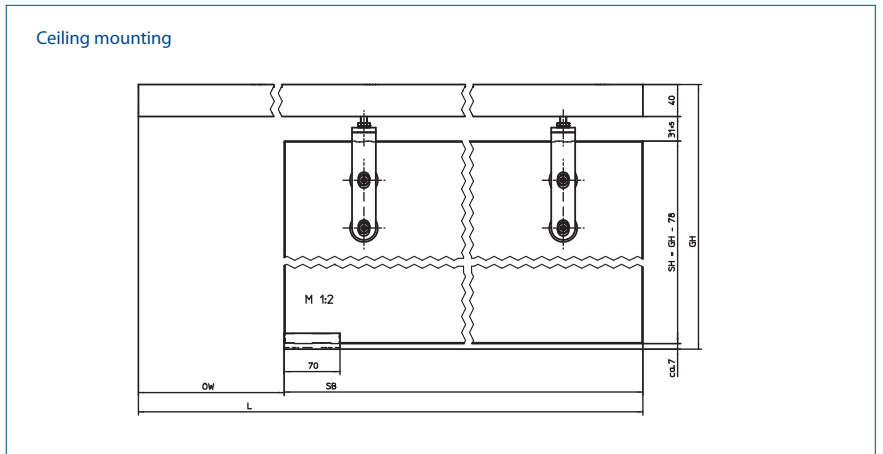


Fig. 17-2

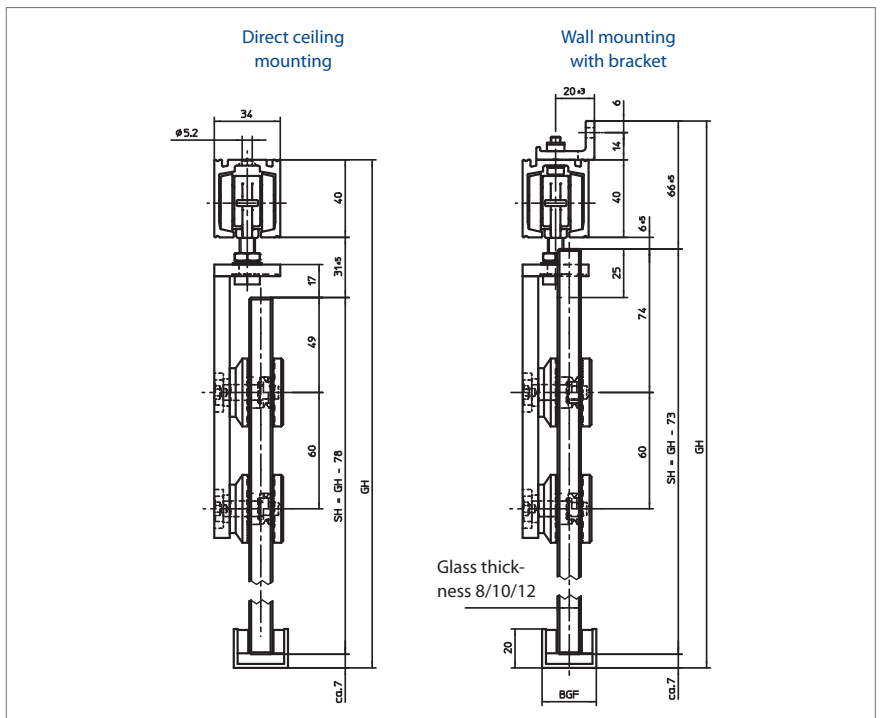


Fig. 17-3

Perlan GGS mounting with wooden leaf (manual)

The fitting for a wooden leaf with a thickness of 15 – 50 mm may be mounted directly on the ceiling or, using a bracket, may be mounted on the wall (see Fig. 18-1).

Installation drawing

Drawing no. 10421-ep31

Perlan GGS mounting with fixed panel

The procedure for mounting GEZE Perlan 140 GGS with a fixed panel is illustrated in Fig. 18-2, 18-3 and 18-4.

Installation drawing

Drawing no. 10421-ep35

Note:

The door leaf must be secured using a bracket buffer in addition to the tube buffer. The buffers must be installed half-way up the height of the door.

Key

- L = Track length (mm)
- n * t = Attachment clearance (mm)
- y = Clearance (mm) from end of track to centre of drill hole for attachment bracket
- PH = Pane height (mm)
- PW = Pane width (mm)
- OH = Overall height (mm)
- OW = Opening width (mm)

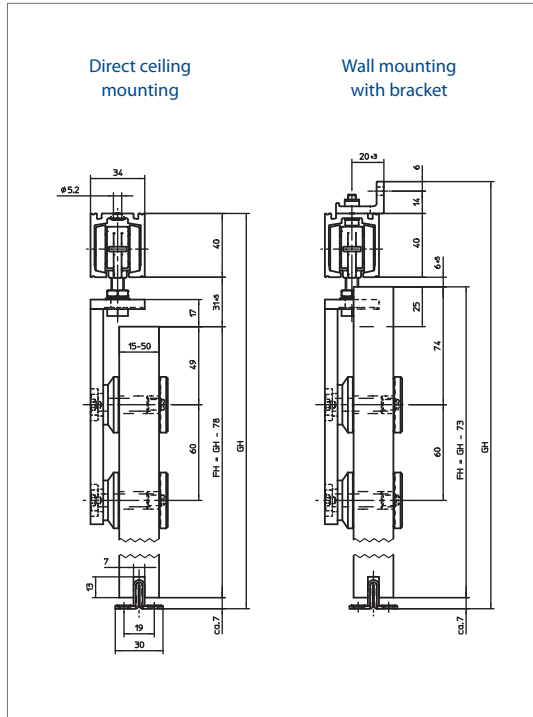


Fig. 18-1

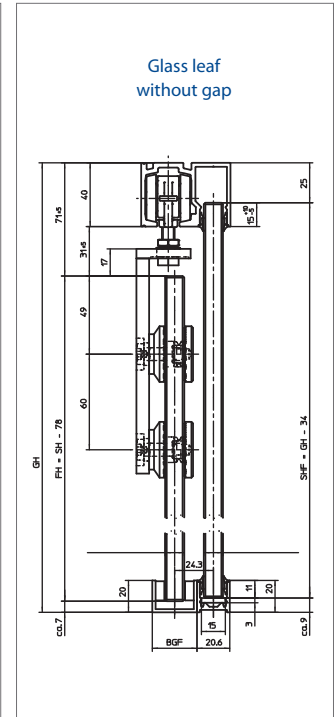


Fig. 18-2

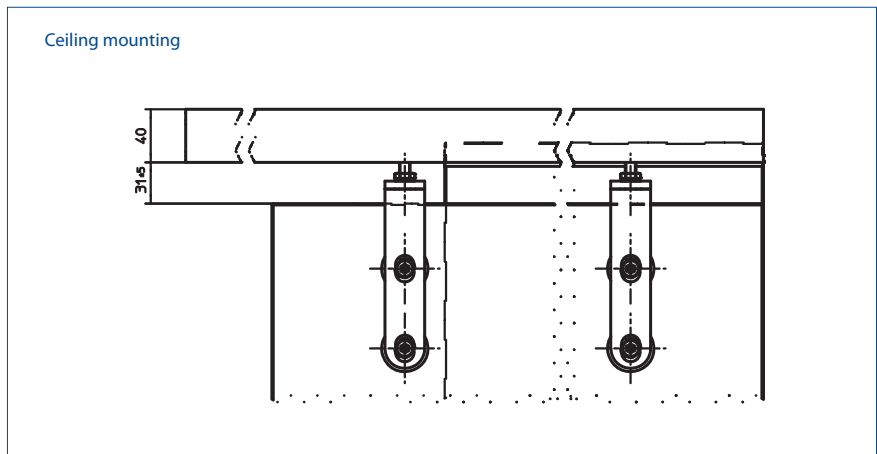


Fig. 18-3

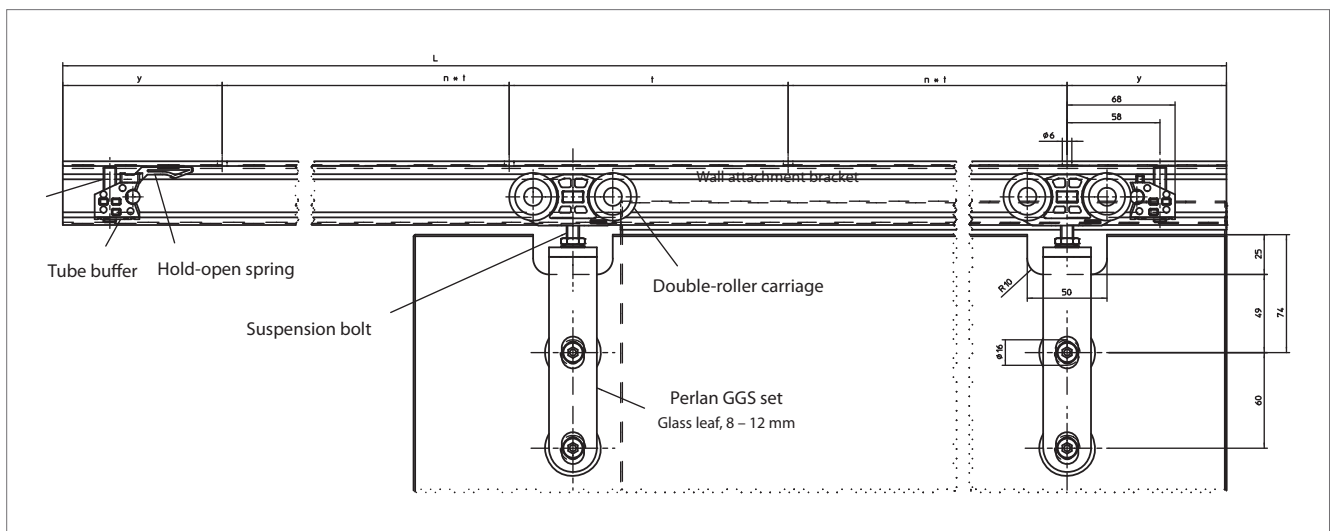


Fig. 18-4

GEZE Perlan 140 with fixed panel

The integrated GEZE Perlan 140 solution featuring a fixed panel creates transparent and convenient entrance areas. The virtually invisible floor and side profiles establish a uniform appearance, as well as amplifying the generous feeling of space brought about by the glass design.

Additional product features:

- ▶ For fully-glazed connecting walls
- ▶ Easy to mount – no adhesives required
- ▶ For all standard door widths
- ▶ Track and side profiles made from anodised aluminium with EV1 or stainless steel finish
- ▶ For 8, 10 and 12 mm fixed panels
- ▶ Boasts all of the other product features of Perlan 140

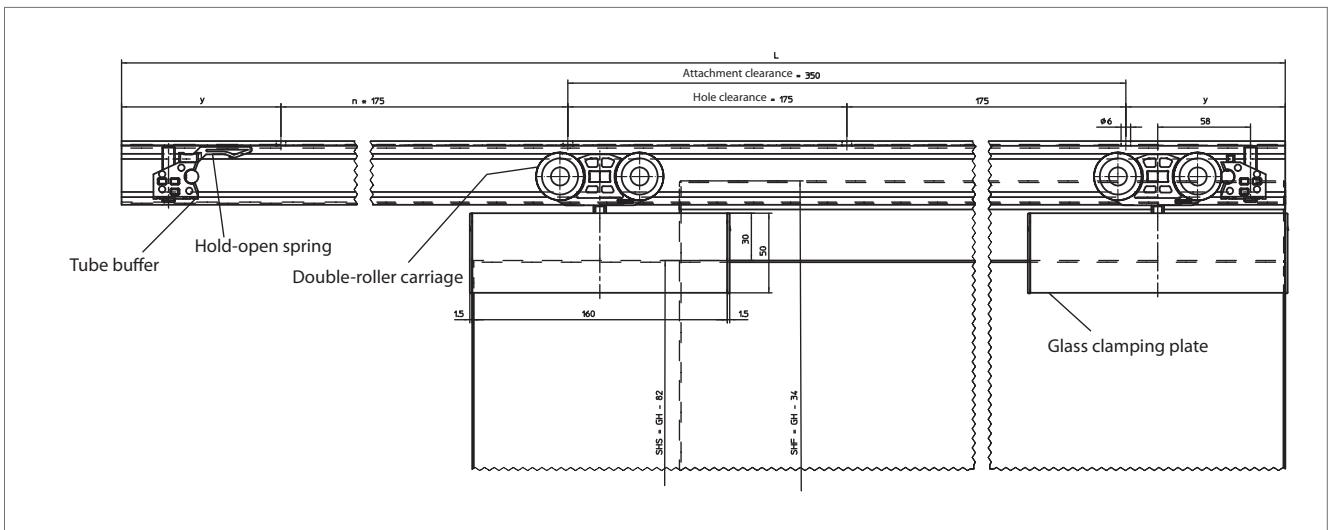
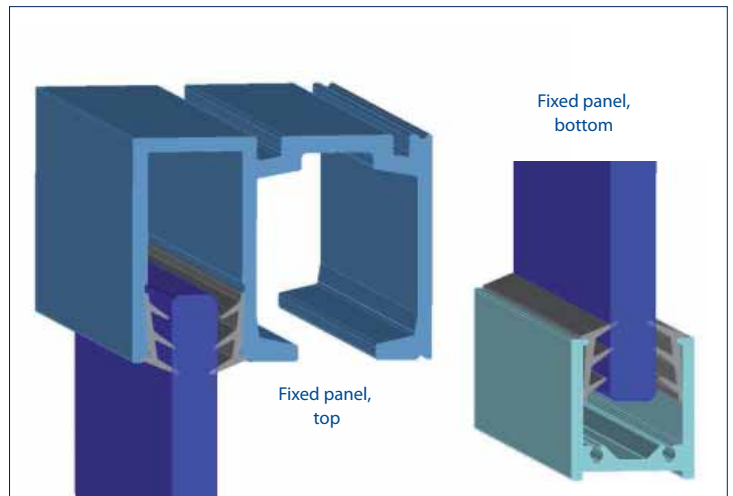


Fig. 19-1

Standard mounting for Perlan DuoSync

The procedure for mounting GEZE Perlan fixed panels is illustrated in Fig. 19-1.

As an option, the glass clamping plate can be fully concealed.

Installation drawing

Drawing no. 10421-ep50

Note:

The door leaf must be secured using a bracket buffer in addition to the tube buffer. The buffers must be installed half-way up the height of the door.

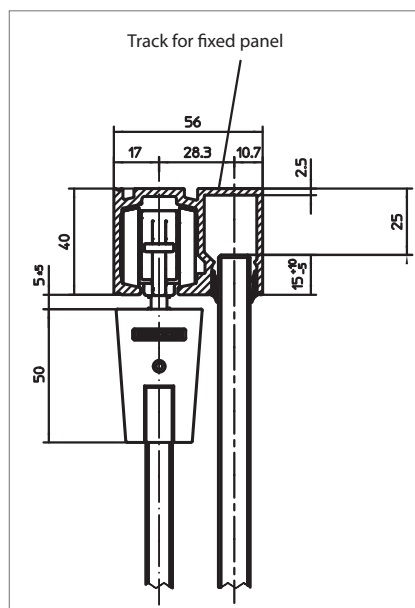


Fig. 19-2

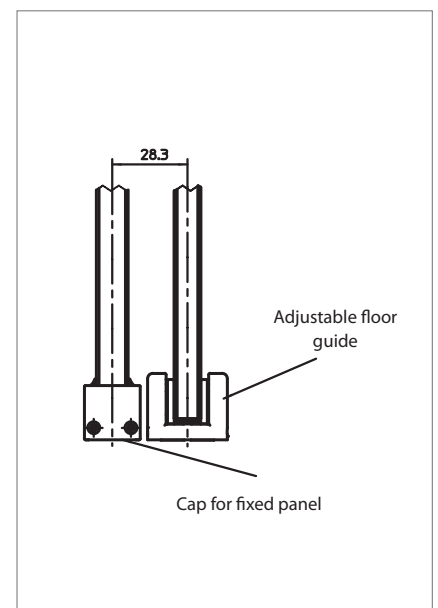


Fig. 19-3

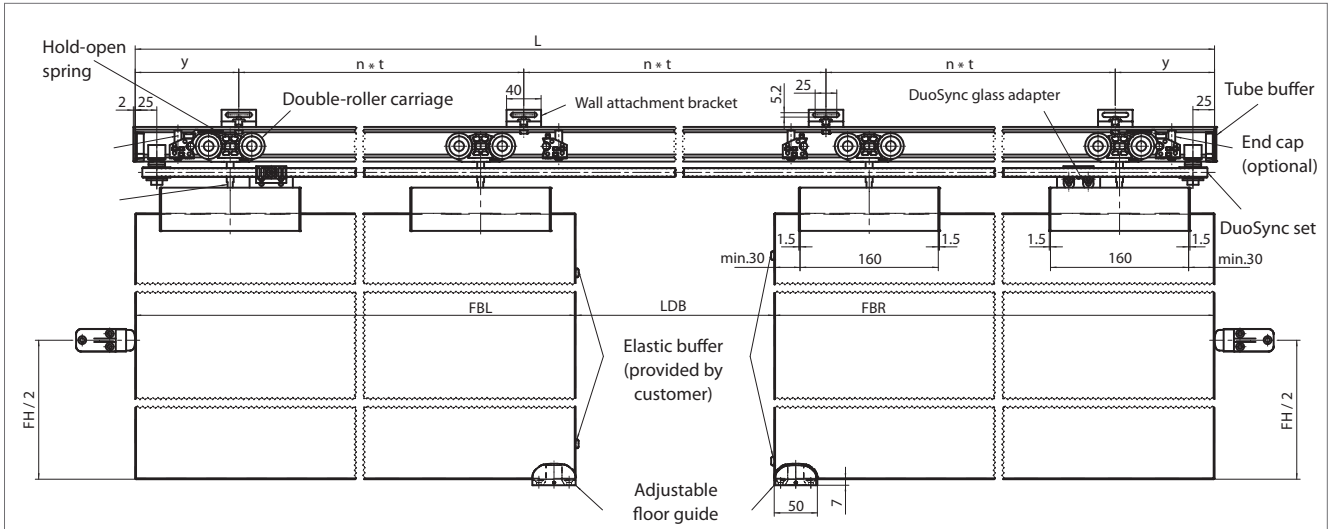


Fig. 21-1

Standard mounting for Perlan DuoSync on glass leaves

The procedure for mounting GEZE Perlan DuoSync on a synchronised, double-leaf glass door with a clamping plate (manual) is illustrated in Fig. 21-1

The fitting may be mounted directly on the ceiling or, using a plate or bracket, may be mounted on the ceiling or wall (see Fig. 21-2).

Installation drawing

Drawing no. 10421-ep09

Note:

Removable panels must be installed to enable access to wall recesses.

The door leaf must be secured using a bracket buffer in addition to the tube buffer.

The buffer must be installed halfway up the height of the door.

It is recommended that you protect the main closing edge using elastic buffers (supplied by the customer).

Product features

- ▶ In addition to the DuoSync set, a glass adapter for synchronising glass leaves is available.
- ▶ All the product benefits of the Perlan 140/Perlan DuoSync are gained with this individual solution.
- ▶ A GEZE clip-on screen system option is also available for concealment purposes.

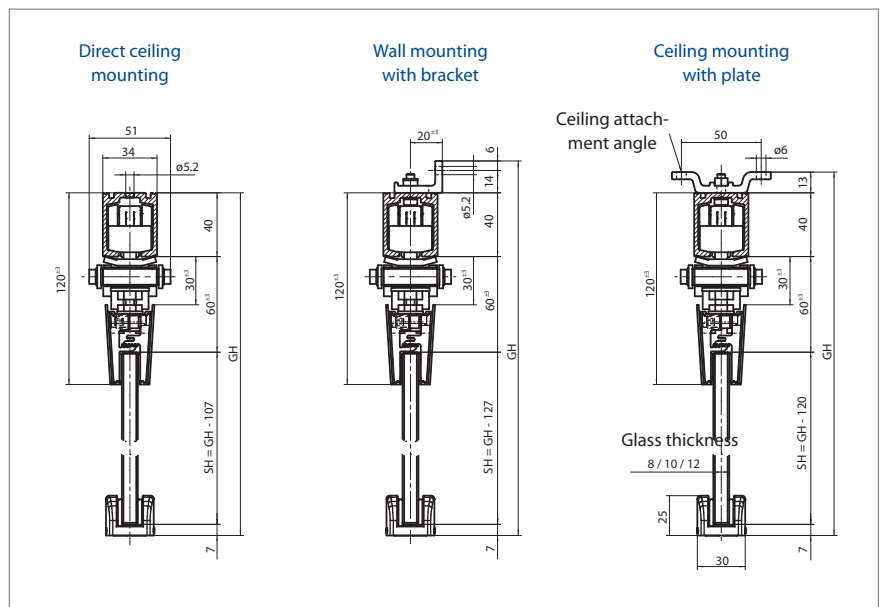


Fig. 21-2

Key

- LWL = Leaf width, left (mm)
- LWR = Leaf width, right (mm)
- L = Track length (mm)
- t = Hole clearance (mm)
- x = Number of wall/ceiling attachment brackets
- y = Clearance (mm) from end of track to centre of drill hole for angle bracket
- BL = Bearing length (mm)
- LH = Leaf height (mm)
- CH = Construction height (mm)
- OH = Overall height (mm)
- CPW = Clear passage width (mm)

GEZE Perlan 140 SoftStop

GEZE Perlan 140, featuring an optional SoftStop draw-in damping mechanism, is a sliding door solution with the perfect combination of comfort and safety.

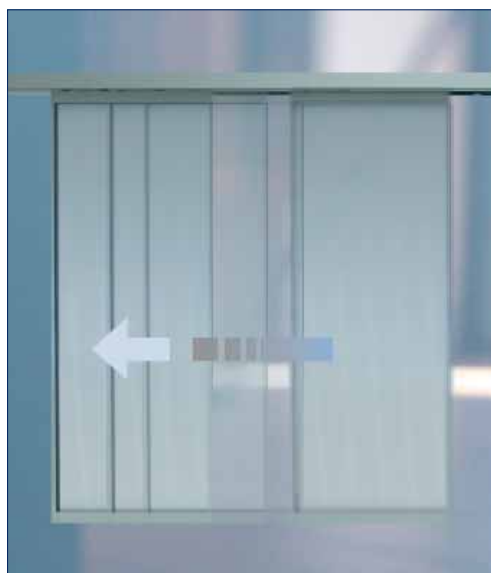
Now you can make uncontrolled stopping at door frames or buffers a thing of the past.

Product features

- ▶ The door is braked gently and travels to its stopping point of its own accord.
- ▶ The draw-in damping mechanism is completely hidden in the track, thus eliminating the need for additional covers or obtrusive add-on parts.
- ▶ Available with damping on either one or both sides
- ▶ Available for doors from 515 – 1700 mm as standard; special designs can be created for other sizes
- ▶ Boasts all the other product features of Perlan 140

Application areas

- ▶ Wood, plastic, metal and glass doors with leaf weights of up to 80 kg
- ▶ Single and multi-leaf sliding doors
- ▶ Particularly suitable for office and living areas



GEZE SoftStop – Ordering information

If standard track lengths are being used, the SoftStop mechanisms are allocated according to the leaf width, as indicated in the table below:

Description	Leaf width	Track length	Id. no.
SoftStop, short version, damping on one side	515 - 700 mm 710 - 900 mm	1250 mm 1650 mm	128876
SoftStop, medium-sized version, damping on one side	840 - 900 mm 910 - 1100mm 1100 - 1290 mm	1650 mm 2050 mm 2450 mm	128877
SoftStop, long version, damping on one side	1100 - 1300 mm 1310 - 1500 mm 1510 - 1700 mm	2450 mm 2850 mm 3250 mm	128878
SoftStop, medium-sized version, damping on both sides	840 - 900 mm 910 - 1100 mm 1110 - 1290 mm	1650 mm 2050 mm 2450 mm	128880
SoftStop, long version, damping on both sides	1110 - 1300 mm 1310 - 1500 mm 1510 - 1700 mm	2450 mm 2850 mm 3250 mm	128891

Description	Id. Nr.
Perlan 140 track, 6 m, with countersink	128660
Perlan 140 track, cut to size, with countersink	128661

Note:

A Perlan 140 track with countersunk fixing holes is required in order to use the SoftStop draw-in damping mechanism.

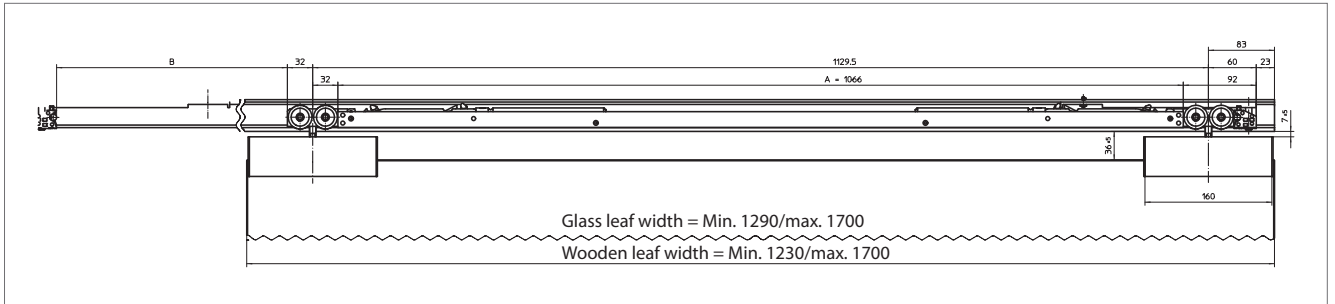


Fig. 23-1

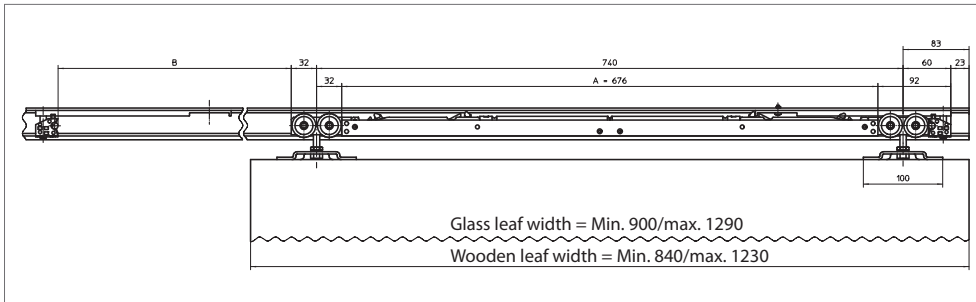


Fig. 23-2

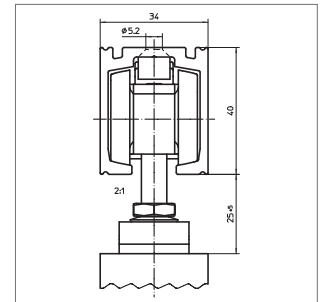


Fig. 23-3

SoftStop draw-in damping mechanism, e.g. with glass leaf, long design (2 sides), and damping in both directions: illustrated in Fig 23-1.

SoftStop draw-in damping mechanism, e.g. with wooden leaf, medium-sized design (2 sides), and damping in both directions: illustrated in Fig 23-2

SoftStop draw-in damping mechanism, e.g. with wooden leaf, short design (1 side), and damping in one direction: illustrated in Fig 23-4

SoftStop draw-in damping mechanism, e.g. with glass leaf, short design (1 side), and damping in one direction: illustrated in Fig 23-5

Installation drawing
Drawing no. 10421-ep36

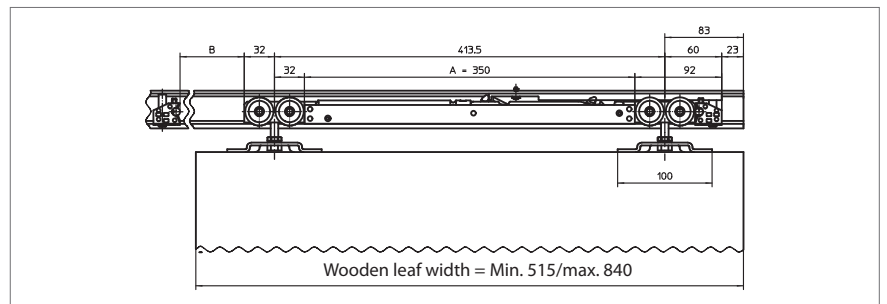


Fig. 23-4

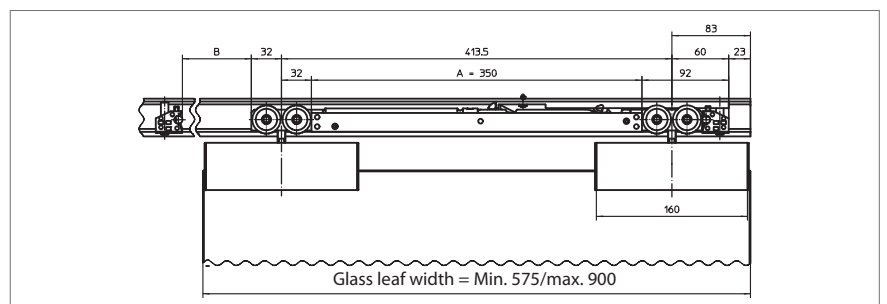


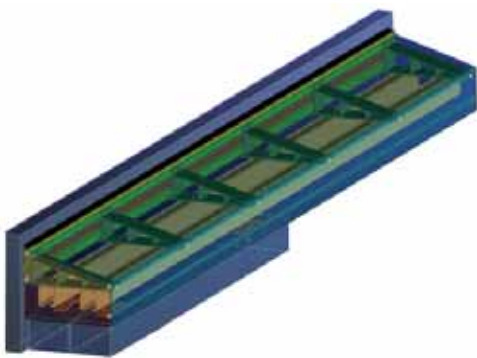
Fig. 23-5

Perlan 140 sliding shutter system

Wall attachment bracket with weather canopy and floor guides

Product features

- ▶ Continuous wall profile with attachment bracket for 1 – 3 tracks
- ▶ Up to 3 parallel leaves of 140 kg each
- ▶ Bracket available in three sizes
- ▶ All parts made from corrosion-resistant material
- ▶ Quick and easy to mount
- ▶ Also suitable for covering Perlan AUT



GEZE Perlan 140 sliding shutter system – Ordering information

Wall bracket and canopy:		
Description	Standard version	Id. no.
Set with end face cover, short	EV1	127313
	RAL	127317
Set with end face cover, medium-sized	EV1	127314
	RAL	127318
Set with end face cover, long	EV1	127316
	RAL	127319
Attachment bracket set, short	EV1	127320
Attachment bracket set, medium-sized	EV1	127322
Attachment bracket set, long	EV1	127323
Perforated wall attachment, L = 6000	EV1	127259
Perforated wall attachment, cut to size	EV1	127260
	RAL	127673
Short cover, L = 6000	EV1	127264
Short cover, cut to size	EV1	127265
	RAL	127674
Medium-sized cover, L = 6000	EV1	127266
Medium-sized cover, cut to size	EV1	127267
	RAL	127675
Long cover, L = 6000	EV1	127268
Long cover, cut to size	EV1	127269
	RAL	127676
Wall attachment bracket seal 200 M		127311
Wall attachment bracket seal, special design		127731
Perlan 140 wall attachment bracket set, special design		127582

Floor-level guides:	
Description	Id. no.
Bracket and floor guide set:	
40 mm	123511
60 mm	123512
100 mm	123513
Play-free floor guide set	123514
Continuous floor guide:	
Omega-shaped, 6M	124640
For 8 mm glass	124651
For 10 mm glass	124652
For 12 mm glass	124653
Buffer for continuous floor guide	124655
Buffer for continuous glass floor guide	124656
M-shaped floor guide, 6M	124661
Continuous floor guide, stainless steel, special design	124662

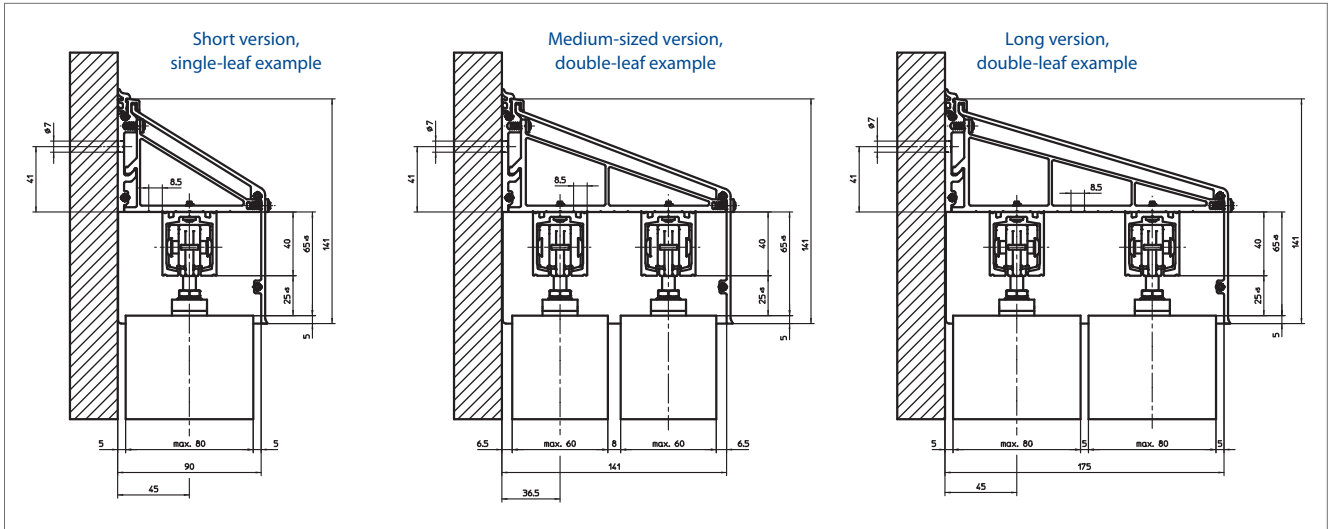


Fig. 25-1

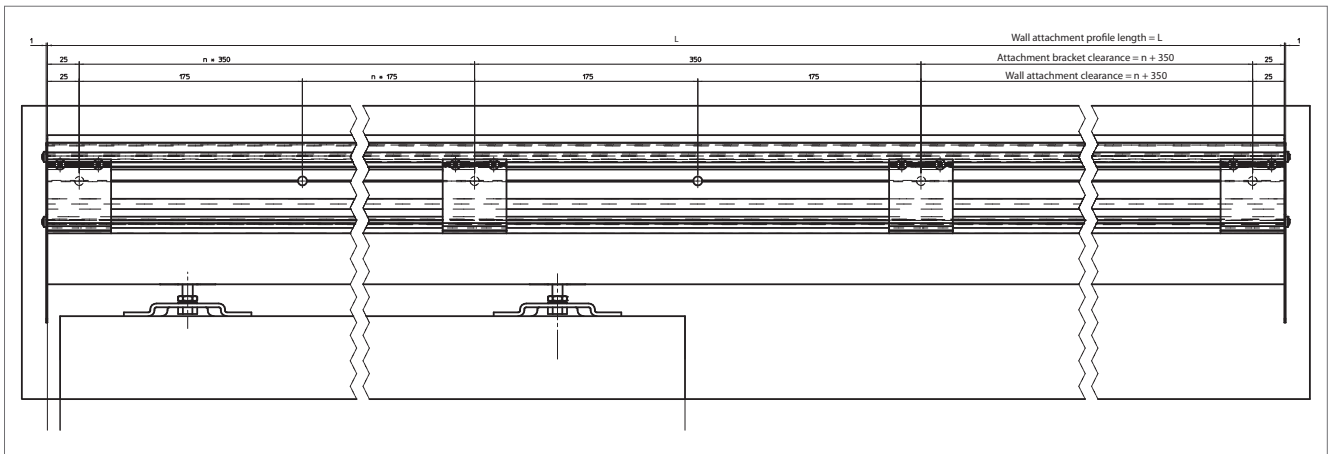


Fig. 25-2

Perlan 140 wall attachment for outdoor areas

The wall bracket and canopy for:

- ▶ Short version, single-leaf example
 - ▶ Medium-sized version, double-leaf example
 - ▶ Long version, double-leaf example
- are illustrated in Fig 25-1.

To view without the cover, refer to Fig. 25-2.

To view with the cover, refer to Fig. 25-3.

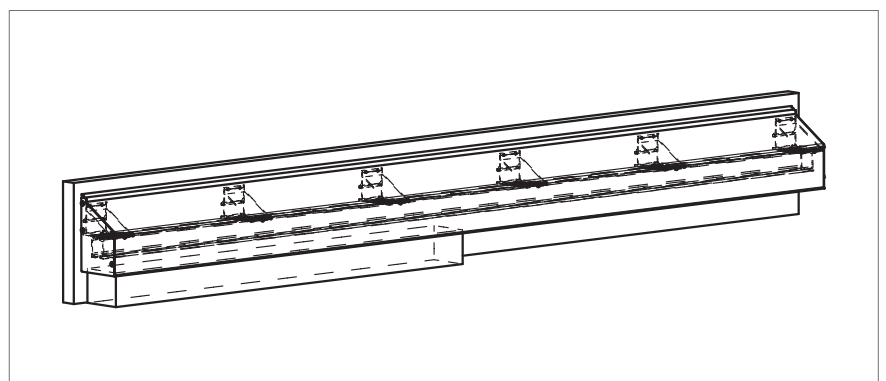


Fig. 25-3

Installation drawing
Drawing no. 10421-ep30

Perlan 140 guide versions
Examples for wooden leaves

M guide profile on façade
 40 mm and 100 mm groove angle
 on double-leaf system (can be over-
 lapped).
 Refer to Fig. 26-1.

M guide profile on façade
 40 mm groove angle
 on single leaf system.
 Refer to Fig. 26-2.

M guide profile on façade
 40 mm groove angle
 on single leaf system.
 Refer to Fig. 26-3.

M guide profile on façade
 40 mm and 100 mm groove angle
 on double-leaf system.
 Refer to Fig. 26-4.

Installation drawing
 Drawing no. 10421-ep21

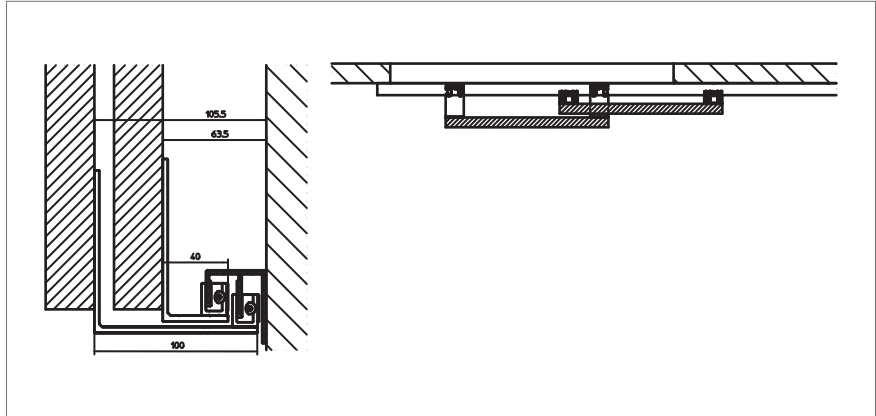


Fig. 26-1

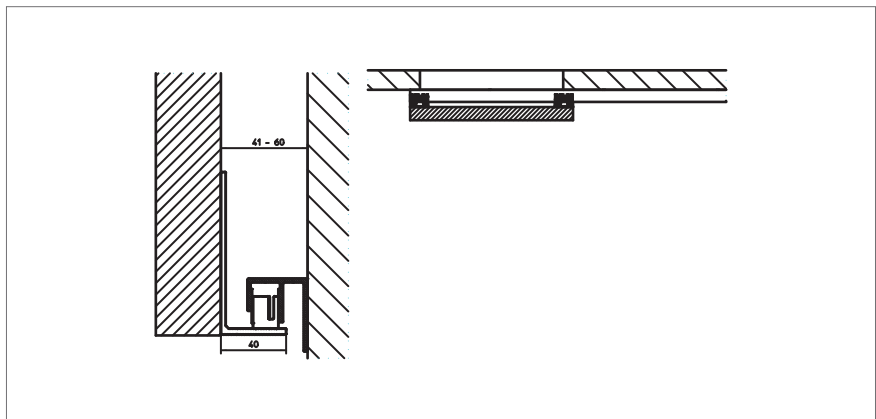


Fig. 26-2

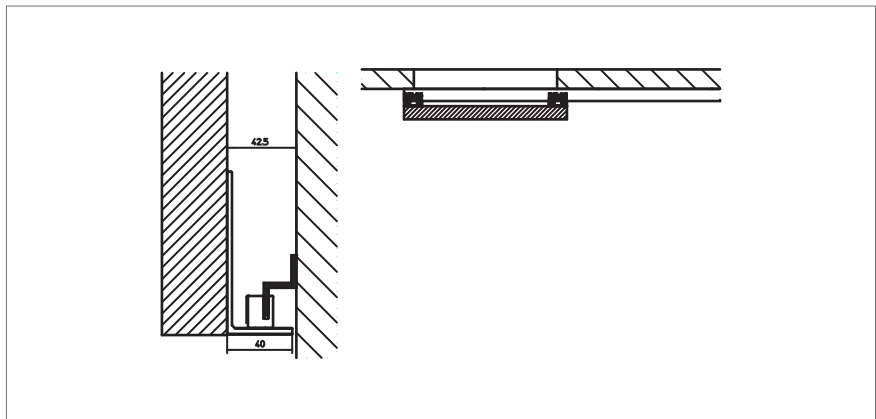


Fig. 26-3

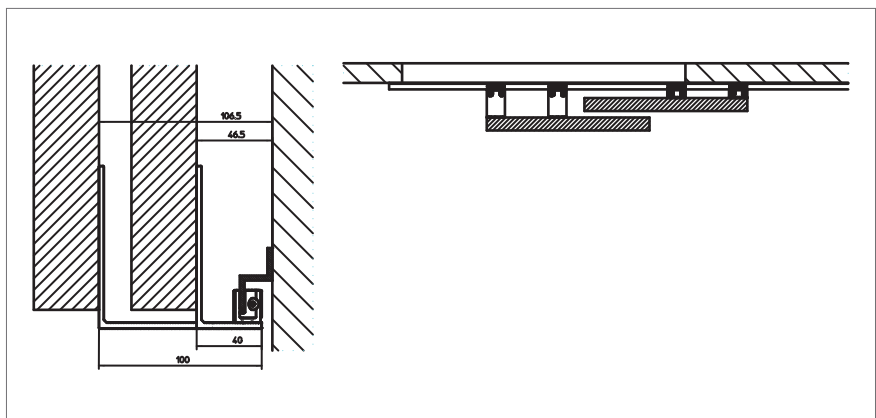


Fig. 26-4

GEZE Perlan KS

Based on the tried-and-tested Perlan 140 sliding door fitting system, Perlan KS is a top-quality, corrosion-resistant product designed for leaves weighing up to 140 kg. It offers the highest corrosion protection classification (class 4) according to DIN EN 1670.

With this, GEZE is able to offer quality products for outdoor applications too. These can be installed without hesitation in areas where even the toughest of conditions prevail (e.g. sea air, chemical pollution).

Just as with the standard system, the KS version can be combined with any Perlan accessory.

Product features

- ▶ Tested according to DIN EN 1527:1998
- ▶ Meets all the requirements of applicable standards relating to static exposure, long-term use, operating power and corrosion resistance
- ▶ Can be combined with the Perlan AUT set – the drive is simply attached and fastened to the track.
- ▶ Particularly suitable for automated sun shading systems in outdoor areas

Key

LW = Leaf width (mm)

L = Track length (mm)

t = Hole clearance (mm)

x = Number of wall/
ceiling attachment brackets

y = Clearance (mm) from end of track to centre of
drill hole for attachment bracket

BL = Bearing length (mm)



Standard dimensions (mm)				
LW	L	t	x	y
510 - 700	1250	350	4	100
710 - 900	1650	350	5	125
910 - 1100	2050	350	6	150
1110 - 1300	2450	350	7	175
1310 - 1500	2850	350	9	25
1510 - 1700	3250	350	10	50
BL	6000	350	18	25

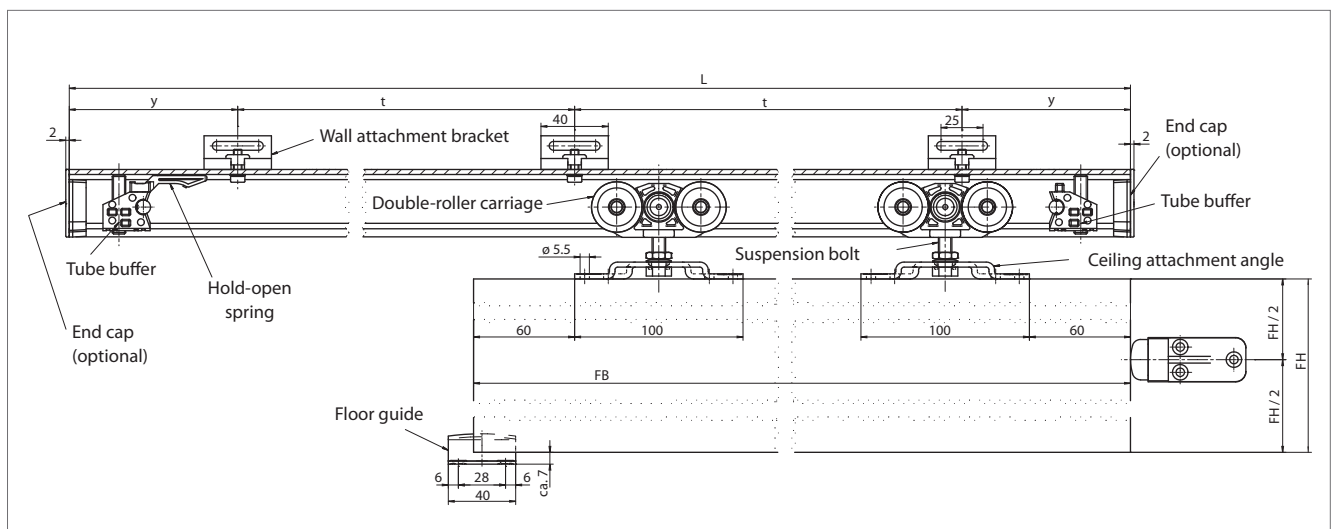


Fig. 27-1

Drive

The drive unit drives the sliding elements via a toothed belt and a carrier, and is controlled via the operating switch. The drive unit must be installed in such a way that it will not be at risk of direct exposure to the elements. Since the motor applies a maximum force of 150 N, and the systems are operated using a dead-man circuit, there is no risk of injury.

Control system/Operating switch

The sliding elements can be opened and closed using the operating switch. Performing a test run following start-up will ensure that movements are precise. During slow travel, the control system makes a note of the starting and stopping points.

The end positions are stored and the path of travel defined for future use.

Toothed belt

The toothed belt forms the connection between the sliding element and the drive via a deflection pulley. The belt is cut as required and connected by means of a toothed belt lock.

Options/Additional control elements

If required, a maximum of two additional devices, such as sensors or smoke detectors, may be attached (these are not included in the GEZE scope of delivery).

Standard mounting for Perlan AUT on glass leaves

The procedure for mounting GEZE Perlan 140 with AUT set on a single-leaf glass door with a clamping plate is illustrated in Fig. 29-1.

The fitting may be mounted directly on the ceiling or, using a plate or bracket, may be mounted on the ceiling or wall (see Fig. 29-2).

Installation drawing

Drawing no. 10421-ep14

Note:

- ! The motor must be protected against rain at all times.
- The Perlan AUT control system must be installed inside the building.



Scope of delivery for Perlan AUT set, ID no. 120434

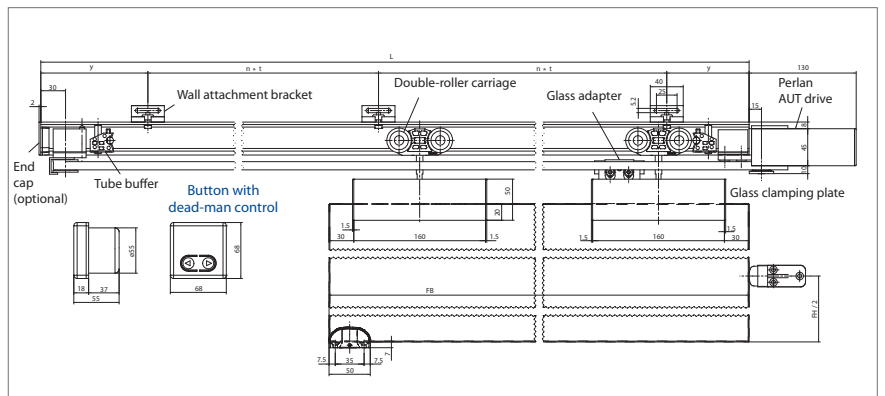


Fig. 29-1

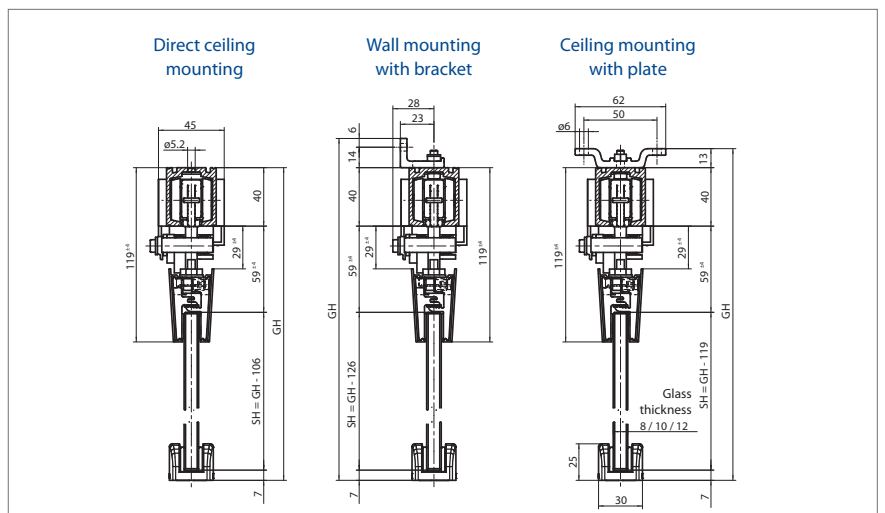


Fig. 29-2

GEZE Perlan accessories

Clip-on screen

- ▶ Anodised aluminium clip-on screen enables simple yet stylish concealment
- ▶ Available in all RAL colours
- ▶ Screen can be directly clipped onto the attachments without the need for obtrusive screws
- ▶ Side caps for an attractive track finish, made from anodised aluminium
- ▶ For wall and ceiling mounting

Installation drawing

Drawing no. 10421-ep20

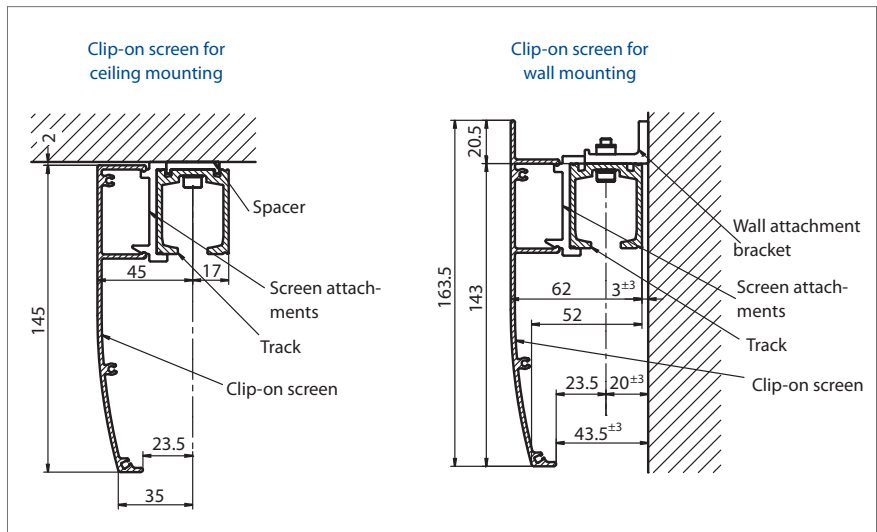


Fig. 30-1

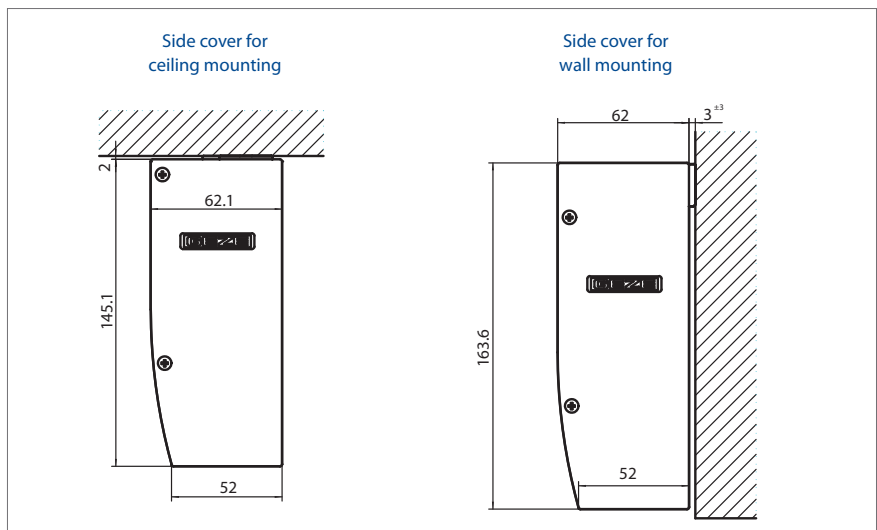


Fig. 30-2

Can be applied with:

- ▶ **Perlan 140**
For wooden and glass leaves
- ▶ **Perlan DuoSync**
For synchronised wooden and glass leaves
- ▶ **Perlan AUT**
For automated wooden and glass leaves
- ▶ **Perlan KS**
For exterior sun shading systems (please note additional number of screen attachments)



Post Tower, Bonn

Glass floor guide, freely adjustable

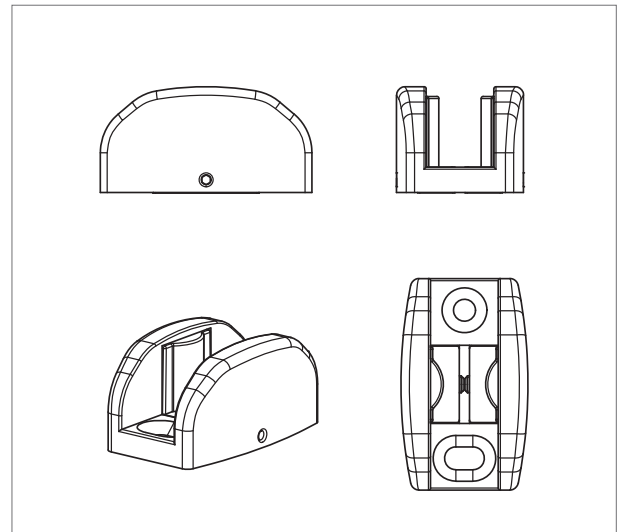
- ▶ The floor guide for glass with a thickness of between 8 and 12 mm can be freely adjusted with both ease and precision.

Adjustable hold-open device

- ▶ Using a headless screw, the latching force of the hold-open device can be adjusted to suit the application in question.
- ▶ Can be adjusted to suit the door leaf used (leaf weight) and the user's requirements.

End cap

- ▶ The clip-on end cap provides a clean finish for the track.



Glass floor guide, freely adjustable



GEZE Perlan · Hold-open device, adjustable



GEZE Perlan · End cap

Carrier plate, concealed

- ▶ Thanks to the concealed carrier plate in the wooden leaf, the gap between the track and the door leaf is kept to a minimum.
- ▶ Visible, obtrusive carrier plates are a thing of the past.
- ▶ No need for the customer to install covers.

Installation drawing

Drawing no. 10421-0-076

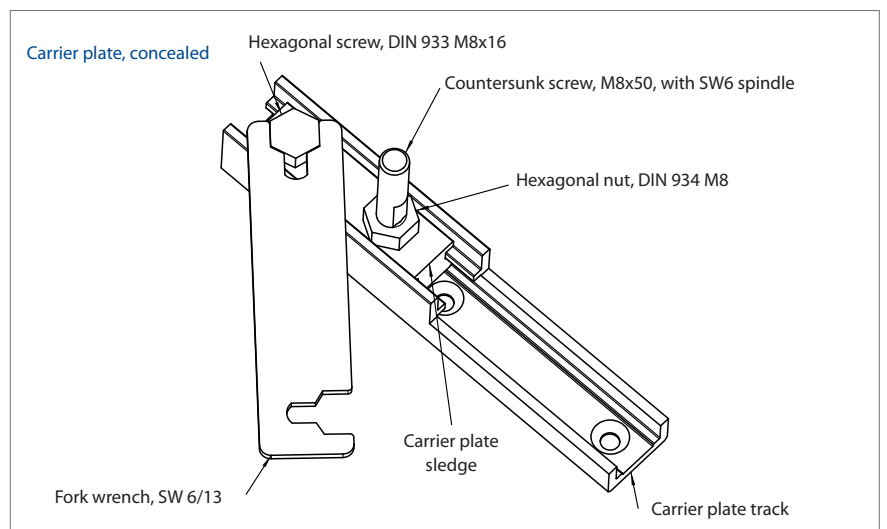


Fig. 31-1

GEZE roller-guided and design sliding door systems

GEZE Perlan – Ordering information

Description	Leaf width (cm)	ID no.
Complete set:		
GEZE Perlan 140 sliding door fitting complete with accessories (with wall attachment bracket)	51 - 70	119336
	71 - 90	119337
	91 - 110	119338
	111 - 130	119339
	131 - 150	119340
	151 - 170	119351
GEZE Perlan 140 sliding door fitting complete with accessories (without wall attachment bracket)	51 - 70	119352
	71 - 90	119353
	91 - 110	119354
	111 - 130	119355
	131 - 150	119356
	151 - 170	119357
Individual parts:		
Perlan 140 track, length: 1250 mm		120124
Perlan 140 track, length: 1650 mm		120127
Perlan 140 track, length: 2050 mm		120130
Perlan 140 track, length: 2450 mm		120131
Perlan 140 track, length: 2850 mm		120132
Perlan 140 track, length: 3250 mm		120134
Perlan 140 track, length: 6000 mm		120135
Perlan 140 track (cut to size)		120139
Perlan 140 track, curved		120420
Wall attachment bracket		119318
Ceiling bracket		119315
GEZE Perlan 140 accessory set without wall attachment bracket	51 - 170	119361
GEZE Perlan 140 accessory set with wall attachment bracket	51 - 90	119358
	91 - 130	119359
	131 - 170	119360
Perlan KS accessory set without wall attachment bracket	51 - 170	119510
Perlan KS accessory set with wall attachment bracket	51 - 90	119507
	91 - 130	119508
	131 - 170	119509
Glass clamping plate		See page 14
Adjustable glass floor guide		120417
Perlan DuoSync set		112837
DuoSync glass adapter		120435
Perlan AUT set		120434
Perlan AUT coupling piece for synchronised systems		123003
Perlan end cap		119649
Tube buffer		119362
Hold-open spring		064242
Adjustable hold-open device		069274
Angle buffer		000339
Concealed carrier plate (for wooden doors)		120432
Clip-on screen for ceiling mounting, EV1 6 m		120991
Clip-on screen for ceiling mounting, EV1, cut to size		120437
Clip-on screen for ceiling mounting, RAL, cut to size		120436
Clip-on screen for wall mounting, EV1 6 m		120966
Clip-on screen for wall mounting, EV1, cut to size		120440
Clip-on screen for wall mounting, RAL, cut to size		120439
Side cover clip-on screen set for ceiling mounting, EV1		119483
Side cover clip-on screen for wall mounting, EV1		119484
Screen attachments (5 pcs per set)		122928
Spacers for ceiling mounting (20 pcs per set)		122943
Clip-on screen for wall mounting, fully configurable		122938
Clip-on screen for ceiling mounting, fully configurable		122939

GEZE Levolan

With its compact dimensions, GEZE Levolan offers a virtually invisible clamping fitting for all-glass doors. The design's straight lines are the perfect complement to any environment.

Product features

- ▶ Track height of just 63 mm
- ▶ Clamping jaws enable installation of glass elements without the need for glass preparation measures
- ▶ The panes are positioned directly in the fitting, making the suspension parts invisible and dispensing with the need for additional concealment measures.
- ▶ High-quality bearings and a maintenance-free running system ensure gentle running, as well as noiseless opening and closing of glass elements with minimum effort.

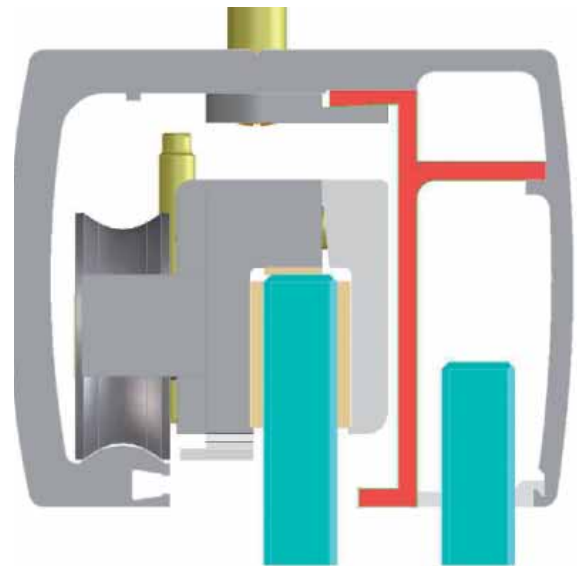


Application areas

- ▶ 8, 10 and 12 mm toughened safety glass elements weighing up to 150 kg
- ▶ For single or double-leaf systems and even with synchronised mechanisms
- ▶ With or without fixed panel
- ▶ For wall and ceiling mounting
- ▶ Can even be installed in areas where space is at a premium

Special version

- ▶ All visible parts available with a stainless steel finish



GEZE Levolan – Ordering information

Width of glass pane (PW)	Length of track (L)	Hole clearance (t)	Number (x) of holes	Clearance (y) from end of track to centre of first hole	Id. no. EV1	Id. no. Stainless steel finish
710 - 900 mm	1,650 mm	175 mm	10	37.5 mm	129122	129125
910 - 1100 mm	2,050 mm	175 mm	12	62.5 mm	129123	129126
1110 - 1300 mm	2,450 mm	175 mm	14	87.5 mm	129124	129127
	6,000 mm	175 mm	35	25 mm	129136	129138
	6,000 mm	175 mm	35	25 mm	129139	129140
	Cut to size	175 mm	xx	xx	128204	130107
	Cut to size	175 mm	xx	xx	128206	130109

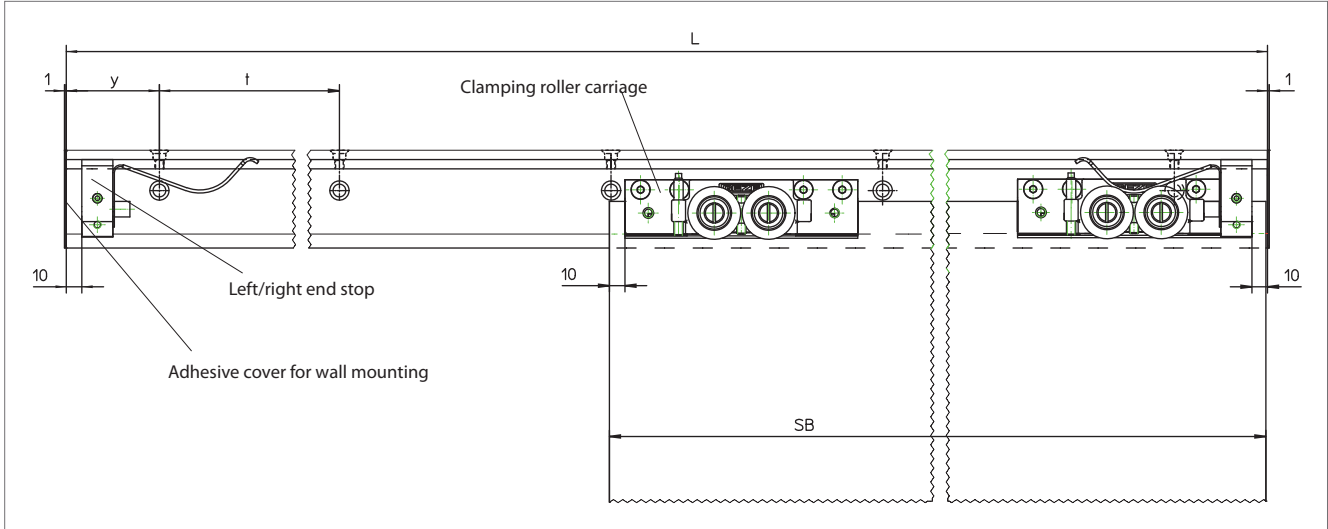


Fig. 34-1

Levolan wall mounting

To see an example of wall mounting for the GEZE Levolan glass clamping roller carriage, refer to Fig. 34-1 and 34-2.

Installation drawing

Drawing no. 10901-ep01

Levolan ceiling mounting

To see an example of ceiling mounting for the GEZE Levolan glass clamping roller carriage, refer to Fig 34-3.

Installation drawing

Drawing no. 10901-ep02

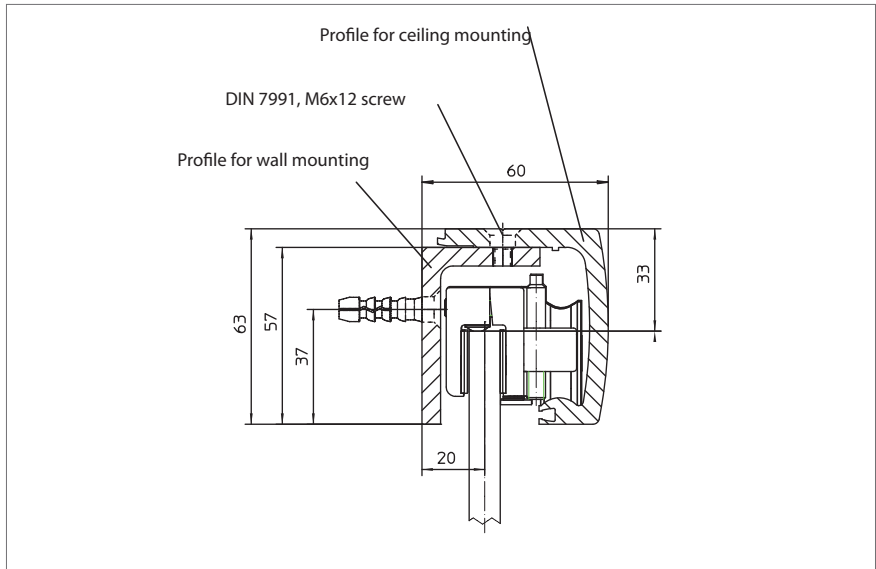


Fig. 34-1

Key

- PH = Pane height (mm)
- OH = Overall height (mm)
- PW = Pane width (mm)
- L = Track length (mm)
- x = Number of holes
- y = Clearance from end of track to centre of first hole
- t = Hole clearance

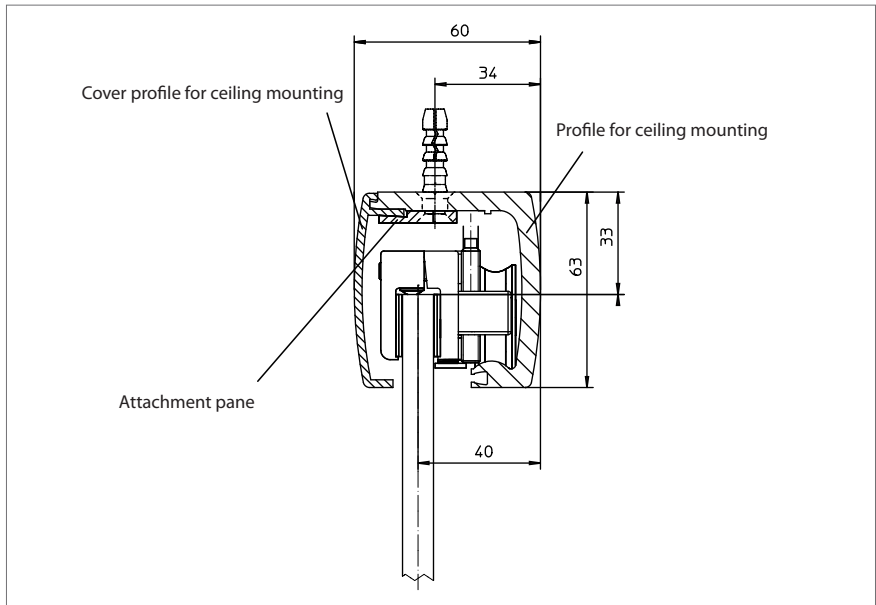


Fig. 34-1

**Glass clamping roller carriage mounting
GEZE Levolan**

The procedure for ceiling mounting with a fixed panel is illustrated in Fig. 35-1.

To see profiles for the fixed panel cover and for fixed panel installation, refer to Fig. 35-2.

Installation drawing

Drawing no. 10901-ep03

Key

- PH = Pane height (mm)
- OH = Overall height (mm)
- PT = Pane thickness (mm)
- FPH = Fixed panel height (mm)

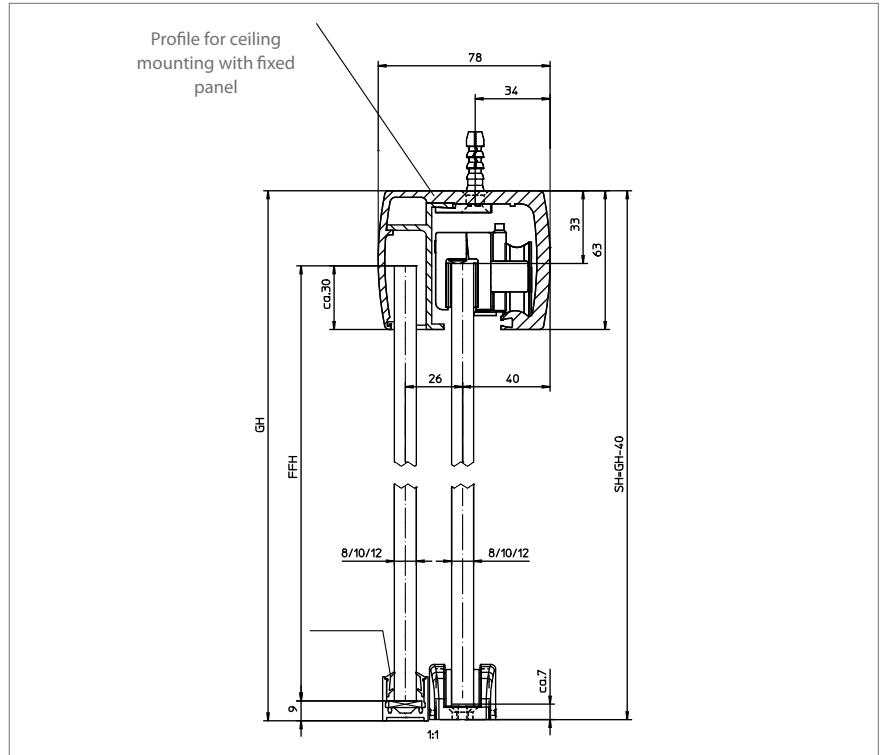


Fig. 35-1

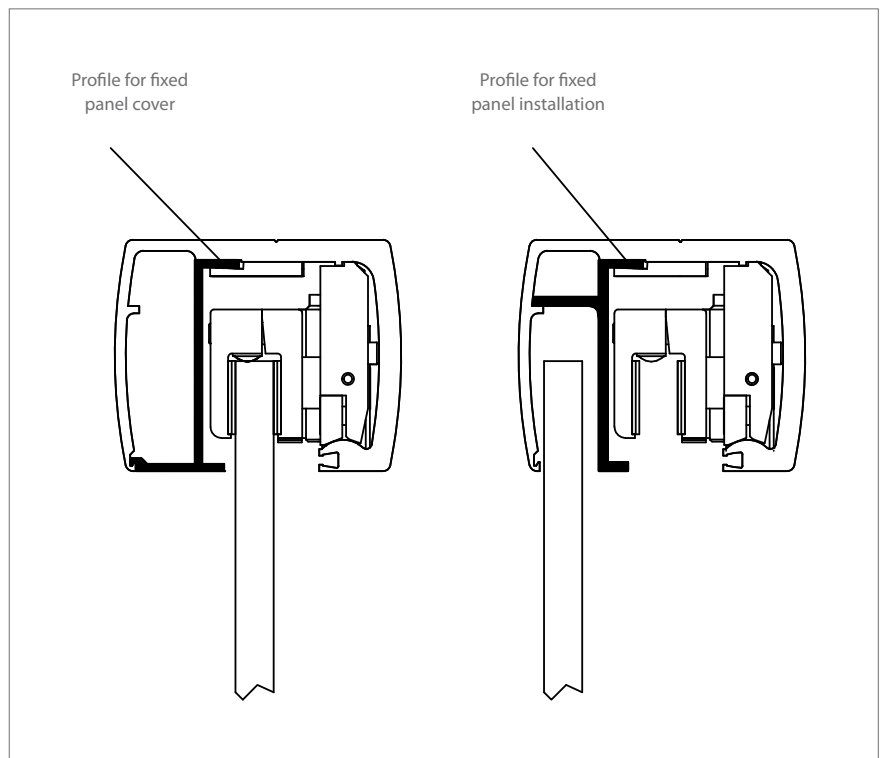


Fig. 35-2

GEZE Aerolan

These high-quality, stainless steel fittings for glass doors reveal a combination of functionality and appealing design. The system can be both wall and ceiling-mounted, making it suitable for a variety of environments.

Product features

- ▶ Thanks to the small dimensions of the carrier rollers, sufficient mounting space is available even where low ceilings are present
- ▶ Track can be fastened to walls and ceilings
- ▶ Track consists of solid material with flat, chamfered ends
- ▶ The door leaf holder, with a diameter of 35 mm, assists in creating an ideal clamping area
- ▶ The lift-out safety device can be precisely adjusted using a pop-up screw. It consists of a plastic roller and can be placed in a precise location under the track. This enables the rolling characteristics of the sliding door to be adjusted to suit the application in question.
- ▶ A play-free floor guide is available for every glass thickness (toughened safety glass, 8/10/12 mm).
This is made from wear-free felt and thus produces virtually no noise.
- ▶ High-quality plastic bearing surfaces for the rollers allow for extremely quiet running with minimum energy expenditure.

Application range

- ▶ For sliding doors and elements in interior and exterior areas
- ▶ For door leaf weights of up to 105 kg
- ▶ For both office and living areas

Installation drawing

Drawing nos. 10801-ep01 and 10801-ep02

GEZE Aerolan – Ordering information

Description	ID no.
Aerolan set for wall mounting	119408
Aerolan set for ceiling mounting	122581
Floor guide, stainless steel	
For 8 mm toughened safety glass	121003
For 10 mm toughened safety glass	121004
For 12 mm toughened safety glass	121005

Special solutions available on request.



Toughened safety glass thickness table						
Di- men- sions	For wall mounting			For ceiling mounting		
	8 mm	10 mm	12 mm	8 mm	10 mm	12 mm
A	13 mm	11 mm	9 mm	24 mm	26 mm	28 mm
B	7.5 mm	5.5 mm	3.5 mm	33.5 mm	32.5 mm	31.5 mm
C	24 mm	26 mm	28 mm			



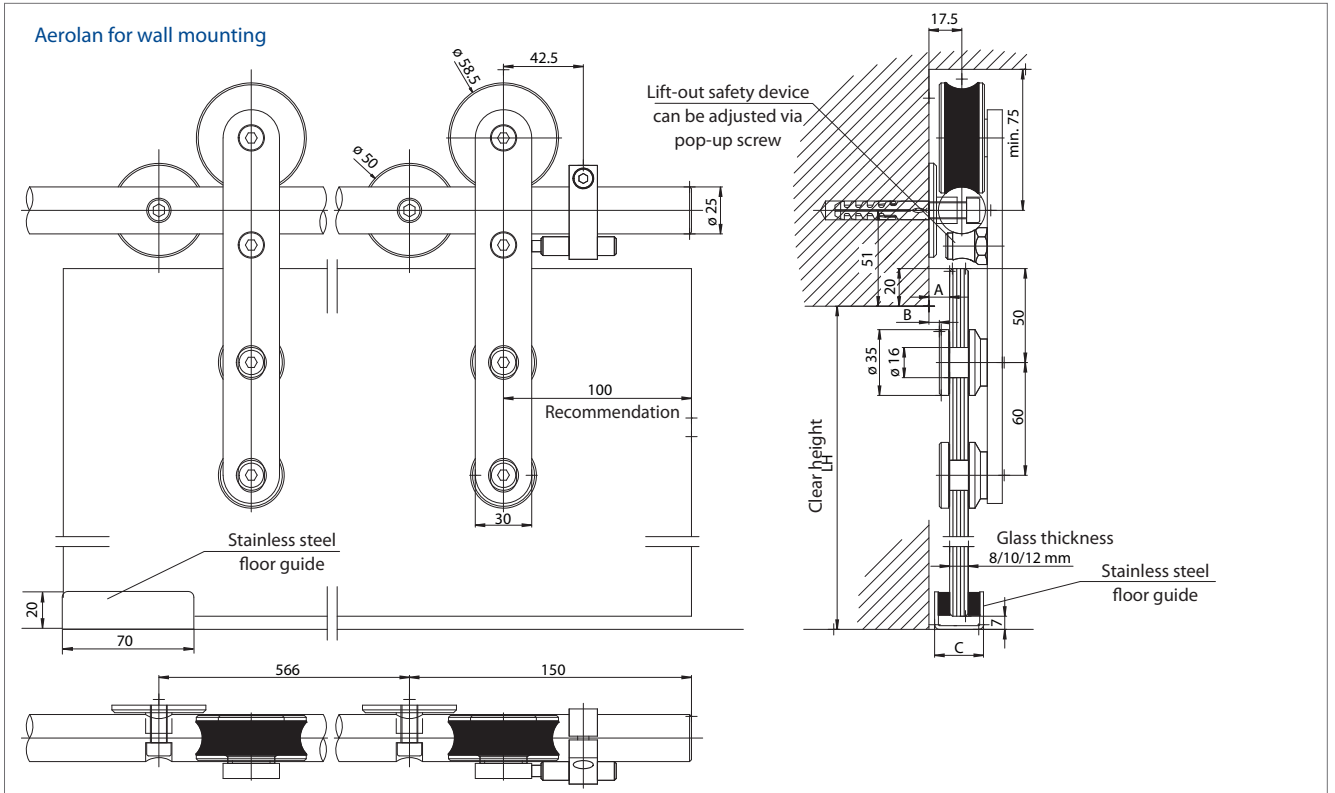


Fig. 37-1

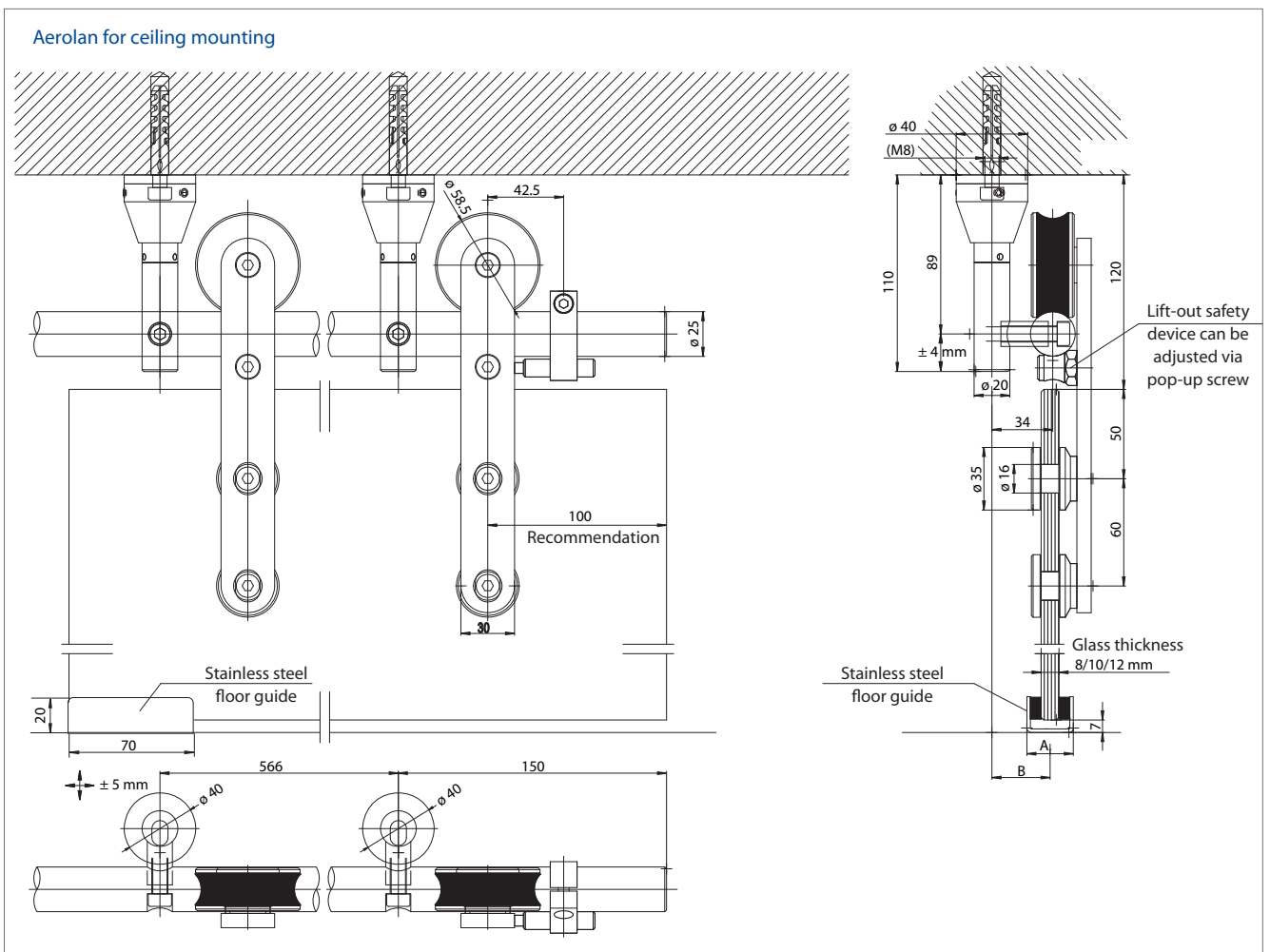


Fig. 37-2

GEZE Geolan

Openly visible rollers on a floor-mounted semicircular track enables glass surfaces to be installed right down to floor level. A u-shaped profile at the top guides the door.

Product features

- ▶ High-quality fitting in classic, sophisticated design combines aesthetics and functionality
- ▶ Track is suitable for mounting on walls or ceilings (guide rail), enabling flexible usage in any type of area
- ▶ The entire weight of the sliding door is supported by a track on the floor, making the fitting suitable for use in areas where a suspension cannot be mounted on the ceiling (e.g. in situations where no load-bearing ceilings are present).
- ▶ High-quality plastic bearing surfaces for the rollers ensure extremely quiet running with minimum energy expenditure.

Application range

- ▶ For sliding doors and elements in interior and exterior areas
- ▶ For door leaf weights of up to 135 kg
- ▶ Can even be used with suspended ceilings, thanks to a floor track supporting the weight of the sliding door
- ▶ For both living and office areas

Installation drawing

Drawing no. 10801-ep03

GEZE Geolan – Ordering information

Description	ID no.
Geolan set for ceiling mounting, screwed, 10 mm	121392
Geolan set for ceiling mounting, glued, 10 mm	119409
Geolan set for wall mounting, screwed, 10 mm	123250

Special solutions available on request.

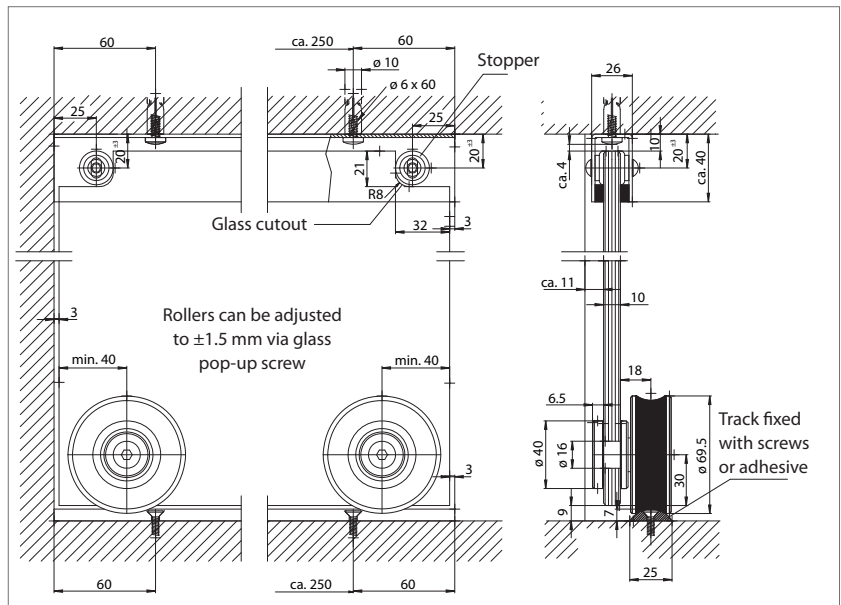


Fig. 38-1



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