

Moving Details.

# TECHNICAL BROCHURE

## Fittings for Toughened Glass Assemblies

Issue 2022

**IMPORTANT NOTICE:**

DORMA-Glas GmbH is part of the Aliante group, a global industrial group with presences in Europe, Middle East and North America and is therefore not part of the dormakaba group since 31 October 2021. dormakaba has agreed to permit employees of DORMA-Glas GmbH use of their dormakaba email addresses and referring to DORMA-Glas GmbH's product offering on the dormakaba website for a short period of time solely for the purpose of uninterrupted business conduct. DORMA-Glas GmbH can no longer make legally binding declarations for the dormakaba Group, but only for DORMA-Glas GmbH.

**Our Sustainability Commitment**

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations.

Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impacts through its entire life cycle, dormakaba provides Environmental Product Declarations (EPDs), in which the results of the life cycle assessment (LCA) are presented.

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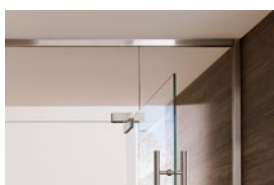
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# The DORMA-Glas range of fittings for toughened glass assemblies

The DORMA-Glas range of fittings for toughened glass assemblies has matured into one of the most comprehensive available today. It offers ideal options for creating all standard toughened glass assemblies in a manner which is technically sound and visually attractive. This gives the designer a wide variety of options for individual expression in creating with toughened glass – either internally or externally.

All DORMA-Glas fittings are based on a modular system, consisting of a base unit, functional inserts and clip-on covers in the widest possible range of finishes. The glass preparations that are needed can be performed quickly and easily. Quality materials and thorough workmanship guarantee a long service life and a reflection of excellence for years to come.

Applications and features	MUNDUS Comfort/Premium		UNIVERSAL patch fittings	BEYOND	EA
For external assemblies	●	●	●		●
For internal assemblies	●	●	●	●	●
For standard toughened glass assembly types	●	●	●	●	●
For individually designed assemblies with corner fittings, fin fittings etc.			●		
For double-action doors	●	●	●	●	
For single-action doors	●	●	●	●	●
Glass thickness (mm) (Generally, glass thickness tolerances within the +/- 0.5 mm range can be accommodated)	8–12	8–22	8, 10, 12 <sup>4)</sup>	10, 12	8, 10, 12
Glass thickness (mm), for UNIVERSAL with 15 mm pivot point			8, 10		
Max. door weight (kg)	150	200	110 <sup>2)5)</sup>	80	80/110 <sup>4)</sup>
Max. door weight (kg) for UNIVERSAL with 15 mm pivot point			80		
Max. door width (mm)	1,100	1,300	1,100 <sup>2)5)</sup>	1,000/1,200 <sup>4)</sup>	1,000/ 1,100 <sup>4)</sup>
Max. door height (mm)	see Matrix for door dimensions, page 10		3,000 <sup>1)2)5)</sup>	2,200 <sup>4)5)</sup>	3,000 <sup>1)2)</sup>
Glass type	TSG	TSG/LSG <sup>3)</sup>	TSG	TSG	TSG
<b>Double-action / single-action door</b>	<b>sa/da</b>	<b>sa/da</b>	<b>sa/da</b>	<b>sa/da</b>	<b>sa</b>
<b>Materials and finishes</b>					
Aluminum, mill finish (Aluminum R 600) (100)					
Aluminum, silver EV1 anodized (similar Eloxal I EV1 / Eloxal II C 0) (101)			●		●
Aluminum EV1-Deco anodized (compatible with finish 150)				●	
Aluminum, similar satin stainless steel anodized (113, 107)				● (107)	● (107)
Aluminum, silver anodized (Silver N 600 ST) (compatible with finish 114) (150)	●	●			
Aluminum special color anodized (199)		●	●		●
Aluminum, traffic white powder coated (300)					●
Aluminum, white powder coated (White P 100 SG) (350, RAL 9016)	●	●	●		
Aluminum, special color powder coated (399)			●		●
Brass, polished chromed (501)			●		●
Brass, polished varnished (502)					
Brass, polished (503)			●		●
Satin stainless steel (Niro S 700 ST) (700)			●		
Polished stainless steel (Niro S 700 HG) (701)			●		
Satin stainless steel (750)	●	●			
Polished stainless steel (751)	●	●			
<b>Page</b>	6		40	78	88



Door rails and locks ideally complement the DORMA-Glas product range for toughened glass assemblies. The door rails grant all requests for wide and heavy doors, also for side panels. They guarantee the maximum protection for the lower glass edge. With its different types and finishes the lock programme SG meets various requirements for function, safety and appearance.

TP/TA EASY Safe	MANET	SG	Wall connection profile	MR 22/ MR 28
●		●	●	
●	●	●	●	●
●	●	●	●	
○				
●	●	○	○	
●	○	○		
8, 10, 10.76 12, 12.76, 13.5, 15, 17, 19	10, 12, 13.5	8, 10, 12	8, 10, 12, 12.7, 13.5, 15, 17, 19	6, 8, 10
150*	80		45 kg/m	
1,400*	1,200			
3,500 <sup>1)2)5)</sup> 4,000 <sup>4)</sup>	2,500 <sup>1)2)5)</sup>		3,000 <sup>1)2)5)</sup>	2,500/ 2,800 <sup>1)2)5)</sup>
TSG/LSG <sup>3)</sup>	TSG	TSG	TSG/LSG <sup>3)</sup>	TSG
sa/da	sa/da	sa/da		
●			●	
●		●	●	●
		●	●	●
●				
		●	●	
●		●		
			●	
●	●		●	
●			●	
102	158	172	192	198

- 1) For door heights up to 2,500 mm  
For doors with a height of more than 2,500 mm we have to keep additional conditions/limits:
  - Glass thickness  $\geq 10$  mm
  - Usage of a handle bar with 3 connection points in minimum and a minimum height of 1/2 door height
- 2) Use of door closers:  
Doors  $< / = 1,100$  mm must be provided with door closers of type EN 3 (with or without back-check), and doors  $> / = 1,100$  mm need to be fitted with larger door closers (e.g. EN 4, 5 or 6) with or without backcheck.
- 3) Laminated safety glass of 2 x toughened safety glass
- 4) Max. panel weight depends on product combination
- 5) Further possible glass panel heights on request at our application engineering
- 6) Under certain circumstances also 15 + 19 mm glass thicknesses

The glass dimension may differ due to items as follows:

- installation type,
- glass tolerance,
- generally use

- Optional
- Standard

\*Only for double-action doors with door rail top and bottom, incl. steel door lever

**Note:** The use of clamp fittings on structured glass surfaces (except of which are satinized glasses) or glasses with large variations in glass thickness is only with the application of a levelling layer permissible.

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**MUNDUS**

# MUNDUS – The freedom of versatility

## Compelling benefits:

- Clear design lines, no visible fixings
- Wide range of surface finishes, colours and materials
- Particularly easy to install: Many MUNDUS fittings can be mounted on the glass and fixed into place in their as-delivered condition
- Fast installation, simple in-situ adjustment of the installed system
- set up for the right glass thickness: adaptable to different glass thicknesses without the need to change gaskets
- Improved load-bearing performance and more secure hold thanks to high-strength materials (screws and threaded sleeves of high-grade stainless steel capable of absorbing high clamping forces)
- Use of laminated safety glass (LSG) using DORMA-Glas's proven Clamp&Glue technology for high quality and safety demands (MUNDUS Premium)

## Elegant appearance

MUNDUS fittings impress through their elegant design combining sharply defined, straight edges and rounded corners, high-quality materials and careful workmanship. There are no fixings to disrupt the smooth harmony of the surface finish. For a durable, elegant appearance, the cap consists of 2 mm thick and therefore particularly robust material – stainless steel or aluminum.

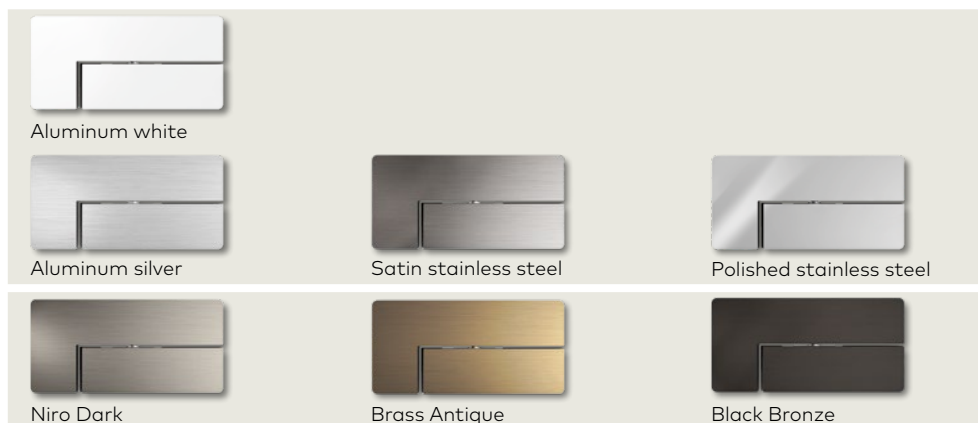
## MUNDUS offers patch fittings for 24 standard systems and numerous special solutions

– whether for an open-plan residential ambience, attractive office or prestigious shop entrance. Visually and technically impressive, MUNDUS glass fittings are suitable for a wide range of different requirements. The extensive portfolio encompasses connection fittings for the usual 24 standard systems such as PT 10, PT 40 or PT 70. It also accommodates special solutions for custom spatial requirements, such as PT 41 and PT 61 for glass assemblies stiffened with 90° glass fins.

## Quick and easy to install

MUNDUS fittings offer multi-dimensional in-situ adjustability, ensuring a firm fit every time. They facilitate infinite variability of the vertical gap dimensions and thus consistently correct setting of the pivot axis and zero position.

## Wide choice of finishes



### Standard collection

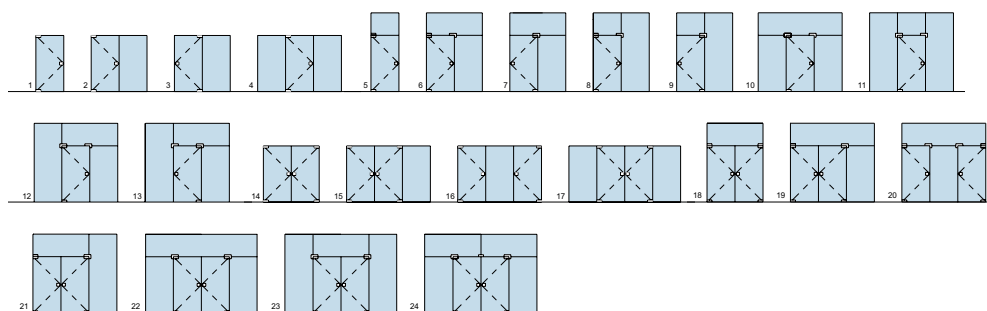
DORMA-Glas standard finishes, anodized or coated, satin or polished stainless steel.

### Exclusive collection

Treated metals such as anodized aluminum.



# MUNDUS – the technical specifications at a glance



MUNDUS	MUNDUS Premium	MUNDUS Comfort
Max. load-bearing capacity	200 kg	150 kg
Max. panel width	1,300 mm	1,100 mm
	The max. panel width depends on glass thickness and weight. For more information please see on the following page MUNDUS - Matrix for door dimensions.	
Possible glass thickness	8–12 mm 12–15 mm 15–19 mm 19–22 mm	8–12 mm
Suitable for LSG*	●	–
Supported pivot points in mm	55, 65, 70 mm	55, 65, 70 mm
Offset adjustability in mm	Infinite (± 3 mm); 52–73 mm	Infinite (± 3 mm); 52–73 mm
Adjustability of the door/insert	Multi-dimensional	Multi-dimensional
Cover materials	Stainless steel, aluminum, glass etc.	Stainless steel, aluminum
Test cycles:	1,000,000	500,000
Inhouse-Test according to EN 12400	Test certificates from an external accredited authority can be provided on request.	
Inhouse-Test according to EN 1670		

Materials and finishes	Availability	Corrosion class	Availability	Corrosion class
<b>Standard collection</b>				
Aluminum, white powder coated (White P 100 SG) (350, RAL 9016)	●	4	●	4
Aluminum, silver anodized (Silver N 600 ST) (compatible with finish 114) (150)	●	4	●	4
Satin stainless steel (Niro S 700 ST) (for MUNDUS) (750)	●	4	●	4
Polished stainless steel (Niro S 700 HG) (for MUNDUS) (751)	●	4	●	4
Special colour at option, powder coated (399)	●	4	●	4
<b>Exclusiv collection (Special colour anodized, 199)</b>				
Niro Dark (157)	●	4	–	
Brass Antique	●	4	–	
Black Bronze	●	4	–	

1 – 4 Corrosion class according to EN 1670 (independent test confirmation on request) • Standard – not available

\* LSG out of 2 x TSG (= 2 panes each with a minimum glass thickness of 5 mm). Can be implemented with separately ordered gaskets and deploying DORMA-Glas's proven Clamp&Glue technology.

# MUNDUS – Matrix for door dimensions

This matrix is only used to select the correct fitting  
and does not represent a static!

height (mm)	8 mm glass width (mm)				10–12 mm glass width (mm)				12–15 mm glass width (mm)				15–19 mm glass width (mm)				19–22 mm glass width (mm)			
	1,000	1,100	1,200	1,300	1,000	1,100	1,200	1,300	1,000	1,100	1,200	1,300	1,000	1,100	1,200	1,300	1,000	1,100	1,200	1,300
2,000																				
2,100																				
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3,600																				
3,700																				
3,800																				
3,900																				
4,000																				

- Suitable for use without any technical limitations.
- Pull handle necessary extending over 1/2 of the door height with at least 3 fixing points.
- Glass and fitting must be adhesive-bonded.
- Use of MUNDUS fittings is not recommended. Please contact your DORMA-Glas partner in order to discuss possible alternatives.
- This door dimension is unfortunately not possible with MUNDUS.



## Extensive suitability, effortless installation







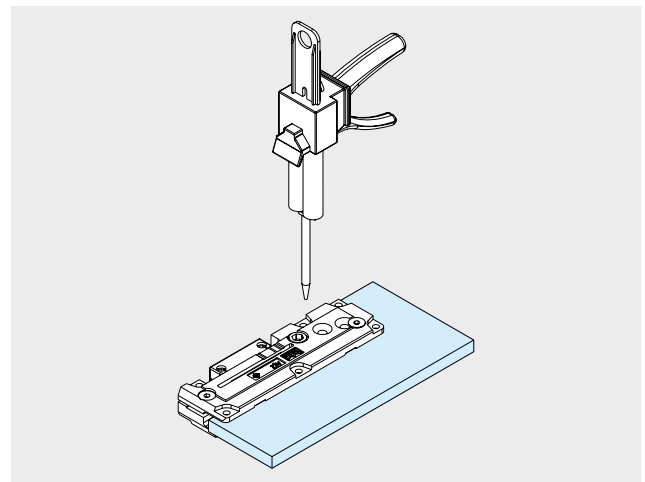
### **MUNDUS Premium – Providing a totally reliable hold – Clamp&Glue technology**

#### **Providing a totally reliable hold – Clamp&Glue technology**

Proven DORMA-Glas technology for the installation of laminated safety glass. An additional adhesive bond ensures a firm hold and permanent cohesion between fitting and glass.

#### **The bonding process following the fixing of the fitting is remarkably easy:**

- Before commencing with the gluing operation, you will need to replace the standard gaskets with special gaskets suitable for laminated safety glass\*
- The glue is fed through the holes provided until it emerges from the overflow openings in the clamp fittings
- The process is then repeated on the rear face
- Allow the glue to harden.



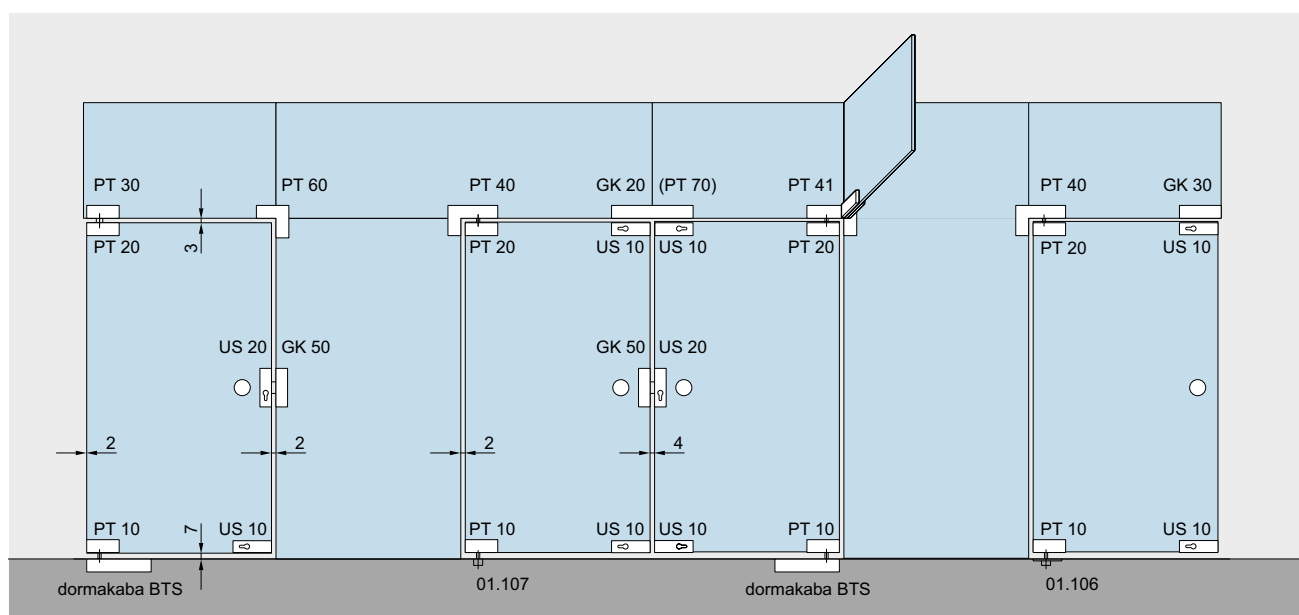
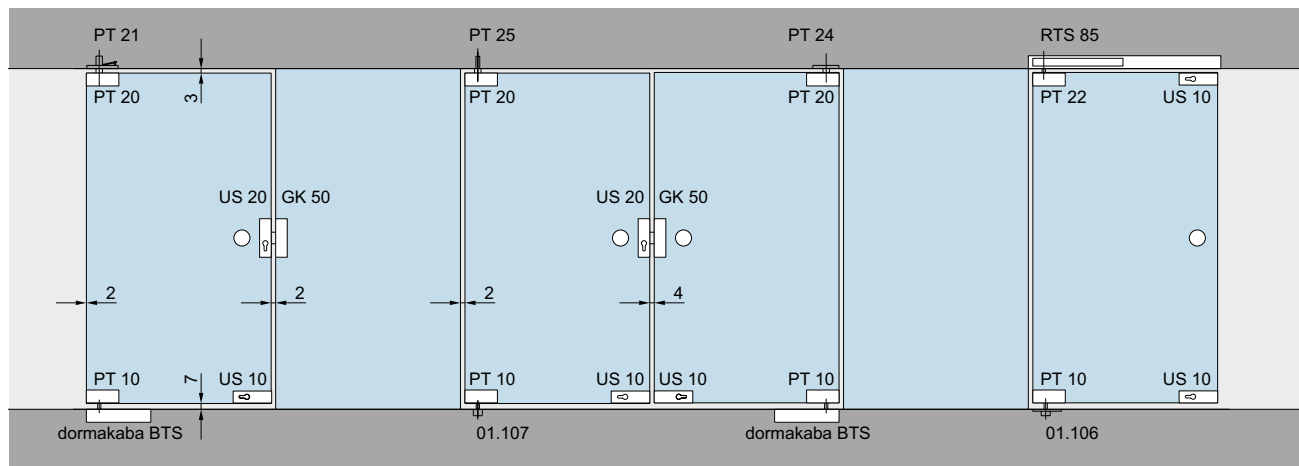
\*The LSG gaskets may only be used when fixing glass using the Clamp&Glue technology

#### **MUNDUS and laminated safety glass (LSG) – a combination that offers impressive advantages:**

- High safety for users, even in the case of large glass assemblies
- Improved acoustic insulation and reduced noise levels achievable by integrating a sound deadening film
- Deploying glass doors as a design element – specially designed films for individual aesthetics
- Use of LSG comprising 2 x TSG (= 2 panes each with a minimum glass thickness of 5 mm).

# Type illustration

**Toughened glass assemblies with fittings (55/65/70 mm pivot point) and locks.**



BTS = dormakaba Floor spring  
GK = Strike box

PT = Patch  
RTS = Transom closer

US = Lock

## Maximum door weight and width for MUNDUS fittings

Max. door weight:

MUNDUS Premium: 200 kg

MUNDUS Comfort: 150 kg

Max. door width:

MUNDUS Premium: 1,300 mm

MUNDUS Comfort: 1,100 mm

For doors with a height of more than 2,500 mm we should keep additional conditions/limits:

- Glass thickness  $\geq 10$  mm
- Usage of a handle bar with 3 connection points in minimum and a minimum height of 1/2 door height

The max. panel width depends on glass thickness and weight. For more information please see on page 10, MUNDUS - Matrix for door dimensions.

**Use of door closers:**

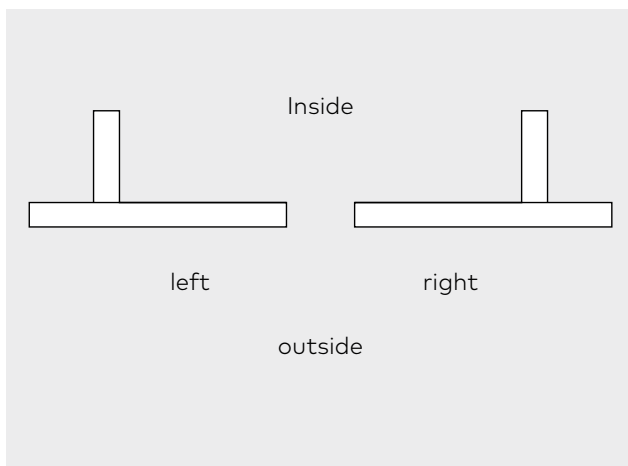
Doors  $< / = 1,100$  mm must be provided with door closers of type EN 3 (with or without backcheck), and doors  $> / = 1,100$  mm need to be fitted with larger door closers (e.g. EN 4, 5 or 6) with or without backcheck.

**Glass panels**

The individual glass panels may show production tolerances in geometry and dimensions that sum up to larger deviations in larger glass assemblies. These deviations are not shown in the exemplary constructional set up above.

**Note for stiffening elements:**

"Left" or "Right" is always determined from the outside and as viewed from above.



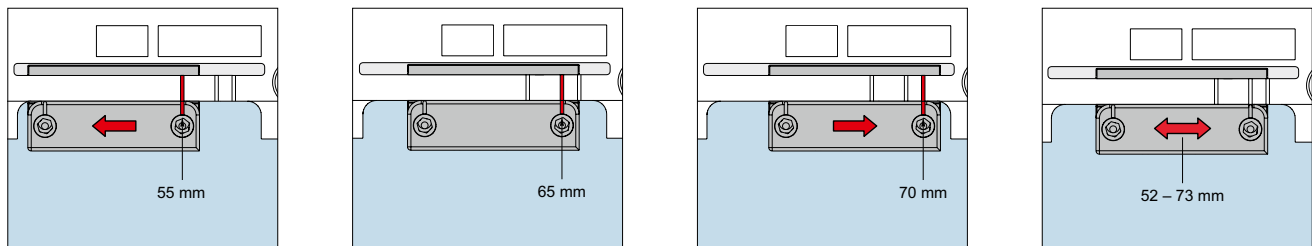
# Easy to install, easy to adjust

## Fast and uncomplicated fixing

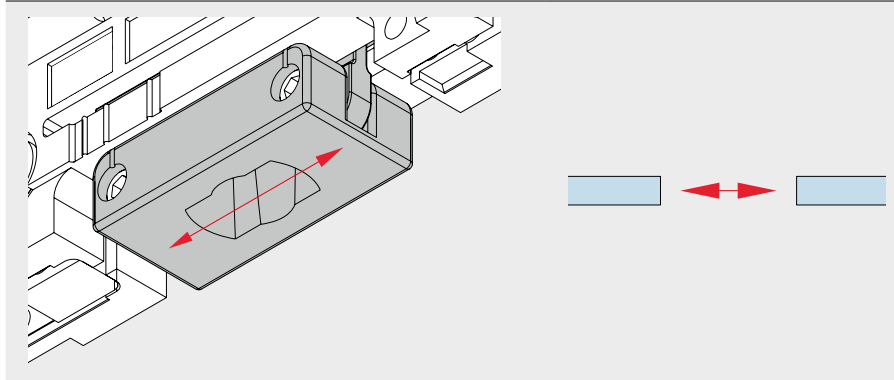
MUNDUS patch fittings always fit snugly on the glass thanks to their multi-dimensional variability. They facilitate infinite adjustment of the vertical gap dimensions and location accuracy in terms of both pivot point and zero position.

## Optimum gap dimensions

Thanks to the infinitely variable, multi-dimensional adjustability of the patch fittings, the door can be optimally aligned following installation.

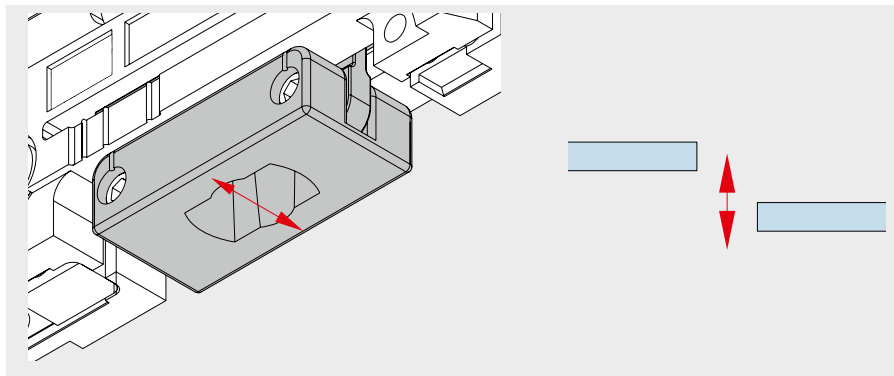


## Multi-dimensional adjustability even when mounted



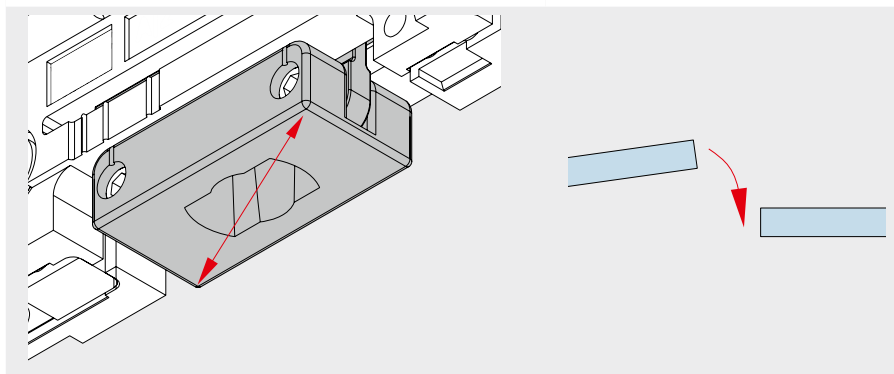
### Alignment in the X axis

Individual adjustment of the pivot point, infinitely variable between 52 and 73 mm.



### Alignment in the Z axis

Infinite variability of the door position to achieve flush alignment thanks to adjustment of up to 1 mm for a glass thickness of 8 mm, or 3 mm for a glass thickness of 12 mm.



### Zero position adjustment

Infinite alignment variability of the door to achieve the correct zero position by adjustment around the axis of rotation in the range  $\pm 1.5^\circ$ .



# Easy to install, safe and secure

With MUNDUS, you do not require new or additional gaskets in order to adjust the fittings to the glass thickness. With MUNDUS, the glass thickness is defined by two screws in the base unit of the patch fitting, allowing the use of glazing ranging from 8 to 22 mm.



## Suitable for different glass thicknesses

### MUNDUS Premium:

Accommodating glass thicknesses of 8–12 mm, 12–15 mm, 15–19 mm and 19–22 mm with infinite adjustability in a single fitting. The gaskets that you had to separately order for toughened safety glass are now a thing of the past. You always have the right fitting to hand. That means: fast installation, more time, more design content.

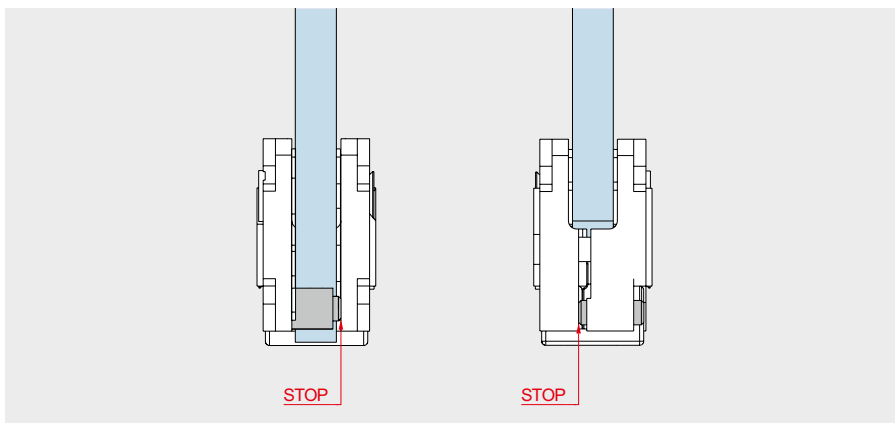
Glass thickness:	8–12 mm
	12–15 mm
	15–19 mm
	19–22 mm
Max. Door weights:	200 kg

### MUNDUS Comfort:

Glass thickness:	8–12 mm
Max. Door weights:	150 kg

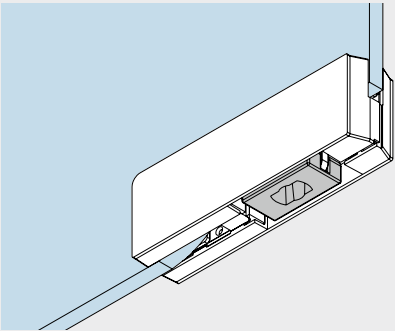
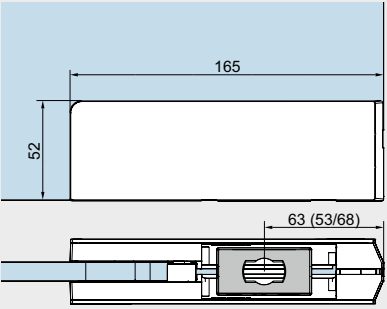
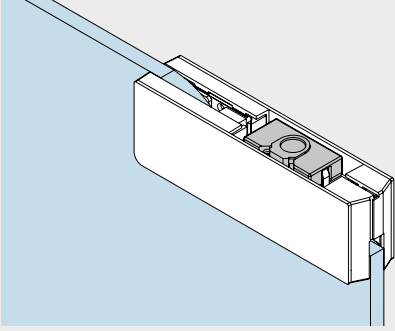
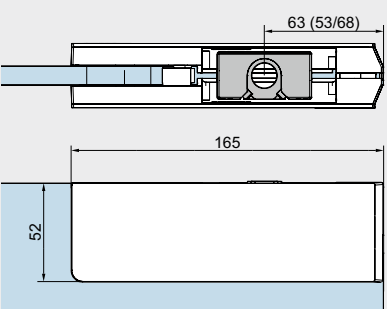
## Protection from unauthorised access

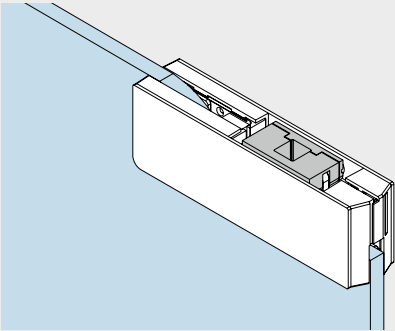
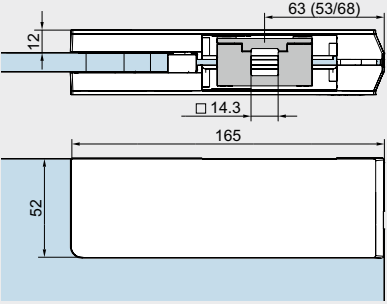
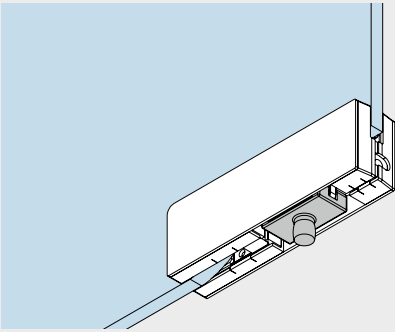
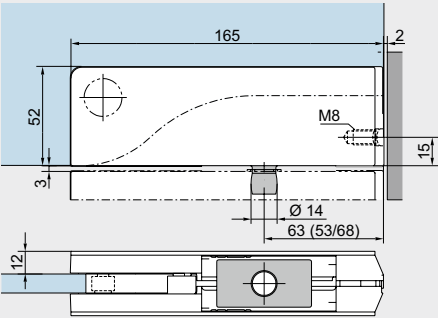
The positioning of the clamping screws also provides for additional protection against unauthorised access to your interiors. The screws are distributed on both sides of the base unit so that disassembly from one side is not possible.



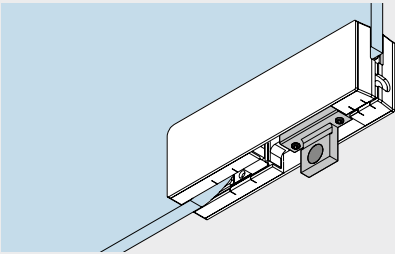
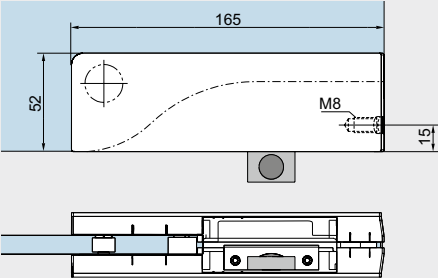
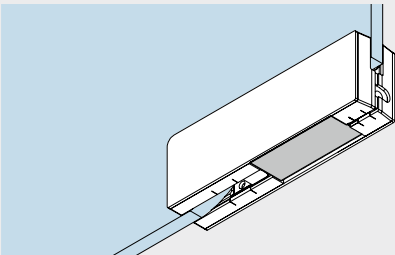
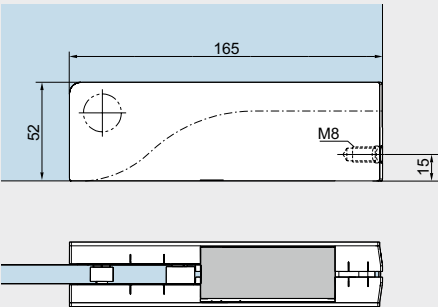
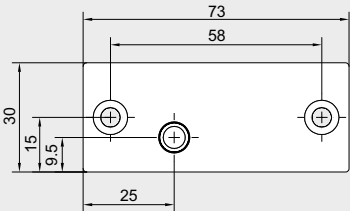
# Patch fittings MUNDUS

Shown with 10 mm glass. When used with other glass thicknesses, the measurements change accordingly.

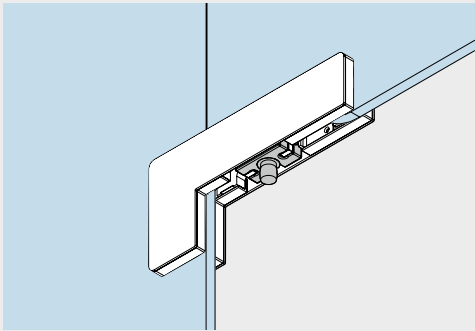
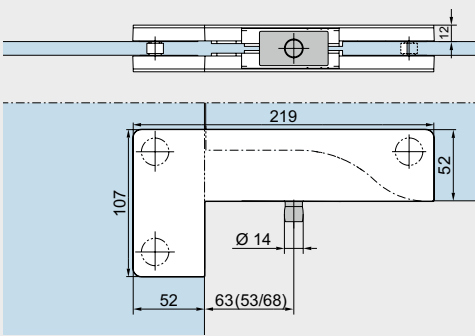
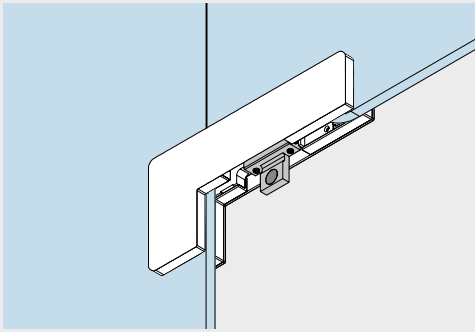
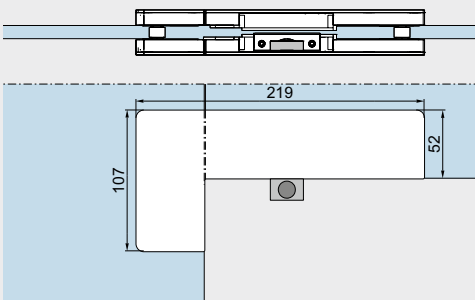
	Product description	Glass thickness	Art. No.
	<b>PT 10 Premium bottom patch fitting</b> use for flat-conical floor spring spindle or round pivot Ø 14 mm. For glass weight up to 200 kg and use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required	8–12 mm	<b>42.100</b>
		12–15 mm	<b>42.101</b>
		15–19 mm	<b>42.102</b>
		19–22 mm	<b>42.103</b>
	<b>PT 10 Comfort bottom patch fitting</b> use for flat-conical floor spring spindle or round pivot Ø 14 mm. For glass weight up to 150 kg and use with toughened safety glass (TSG).	8–12 mm	<b>38.100</b>
	<b>PT 20 Premium top patch fitting</b> with plastic socket for pivot Ø 14 mm. For glass weight up to 200 kg and use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–12 mm	<b>42.200</b>
		12–15 mm	<b>42.201</b>
		15–19 mm	<b>42.202</b>
		19–22 mm	<b>42.203</b>
	<b>PT 20 Comfort top patch fitting</b> with plastic socket for pivot Ø 14 mm. For glass weight up to 150 kg and use with toughened safety glass (TSG).	8–12 mm	<b>38.200</b>

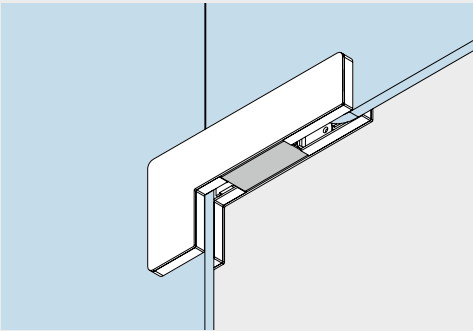
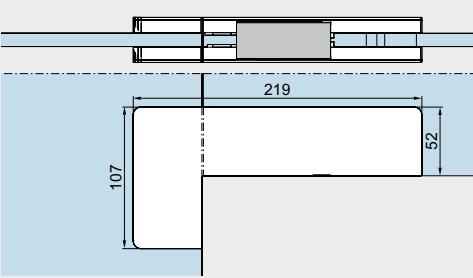
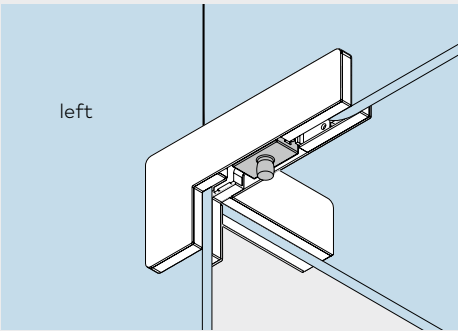
	Product description	Glass thickness	Art. No.
	<b>PT 22 Premium*</b> <b>top patch fitting</b> for a glass weight up to 80 kg with insert for transom closer RTS. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–12 mm 12–15 mm 15–19 mm 19–22 mm	<b>42.220</b> <b>42.221</b> <b>42.222</b> <b>42.223</b>
		8–12 mm	<b>38.220</b>
		8–12 mm 12–15 mm 15–19 mm 19–22 mm	<b>42.300</b> <b>42.301</b> <b>42.302</b> <b>42.310</b>
		8–12 mm	<b>38.300</b>

\* The maximum permissible door heights and door widths depend on the closing device used and its spring strength / closing force. The maximum allowable door weight in combination with an RTS transom-concealed door closer is 110 kg, the maximum allowable panel width is 1,100 mm.

	Product description	Glass thickness	Art. No.
	<b>PT 30 Premium overpanel patch fitting</b> with stop insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm	<b>42.303</b>
		15–19 mm	<b>42.305</b>
		19–22 mm	<b>42.311</b>
	<b>PT 30 Comfort overpanel patch</b> with stop insert. For use with toughened safety glass (TSG).	8–15 mm	<b>38.303</b>
	<b>PT 30 Premium overpanel patch fitting</b> with blanking insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm	<b>42.306</b>
		15–19 mm	<b>42.308</b>
		19–22 mm	<b>42.312</b>
	<b>PT 30 Comfort overpanel patch</b> with blanking insert. For use with toughened safety glass (TSG).	8–15 mm	<b>38.306</b>
	<b>Fixing plate</b> for MUNDUS overpanel patch fitting PT 30 and MUNDUS overpanel strike box GK 30 Weight in kg: 0.039  Only available in satinized stainless steel, polished stainless steel or powder-coated stainless steel. Optionally wall anchor and threaded rod are applicable. (see page 31.)		<b>38.313</b>



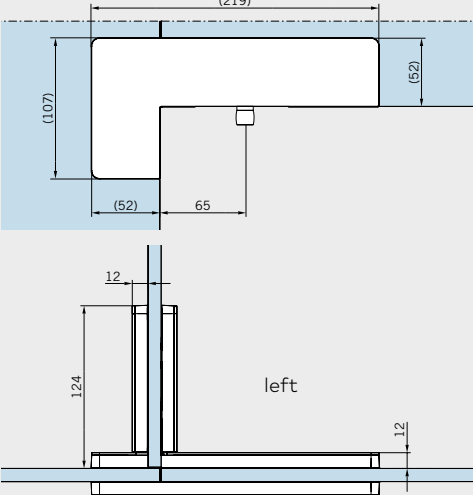
	Product description	Glass thickness	Art. No.
	<b>PT 40 Premium patch for overpanel and sidelight</b> with pivot Ø 14 mm. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–12 mm 12–15 mm 15–19 mm 19–22 mm	<b>42.400</b> <b>42.401</b> <b>42.402</b> <b>42.470</b>
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.		
		8–12 mm	<b>38.400</b>
	<b>PT 40 Comfort patch for overpanel and sidelight</b> with pivot Ø 14 mm. For use with toughened safety glass (TSG).		
	<b>PT 40 Premium patch for overpanel and sidelight</b> with stop insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm 15–19 mm 19–22 mm	<b>42.403</b> <b>42.405</b> <b>42.471</b>
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.		
		8–15 mm	<b>38.403</b>
	<b>PT 40 Comfort patch for overpanel and sidelight</b> with stop insert. For use with toughened safety glass (TSG).		
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.		

	Product description	DIN	Glass thickness	Art. No.
	<b>PT 40 Premium patch for overpanel and sidelight</b> with blanking insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.		8–15 mm 15–19 mm 19–22 mm	<b>42.406</b> <b>42.408</b> <b>42.409</b>
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.			
	<b>PT 40 Comfort patch for overpanel and sidelight</b> with blanking insert. For use with toughened safety glass (TSG).		8–15 mm	<b>38.406</b>
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.			
 left	<b>PT 41 Premium patch for overpanel and sidelight</b> with pivot pin Ø 14 mm and fin fitting*. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	left	8–12 mm	<b>42.410</b>
			12–15 mm	<b>42.411</b>
			15–19 mm	<b>42.412</b>
			19–22 mm	<b>42.472</b>
		right	8–12 mm	<b>42.420</b>
			12–15 mm	<b>42.421</b>
			15–19 mm	<b>42.422</b>
			19–22 mm	<b>42.474</b>
	<b>with stop insert</b>	left	8–15 mm	<b>42.413</b>
			15–19 mm	<b>42.415</b>
			19–22 mm	<b>42.473</b>
		right	8–15 mm	<b>42.423</b>
			15–19 mm	<b>42.425</b>
			19–22 mm	<b>42.475</b>
	<b>with blanking insert</b>	left	8–15 mm	<b>42.416</b>
			15–19 mm	<b>42.418</b>
			19–22 mm	<b>42.419</b>
		right	8–15 mm	<b>42.426</b>
			15–19 mm	<b>42.428</b>
			19–22 mm	<b>42.429</b>

**Please note:**

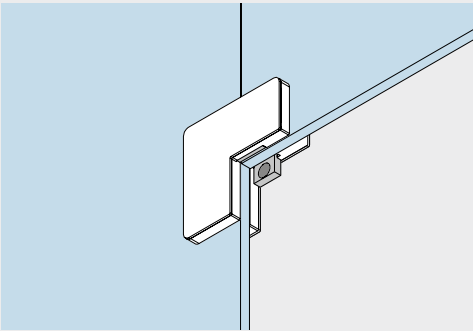
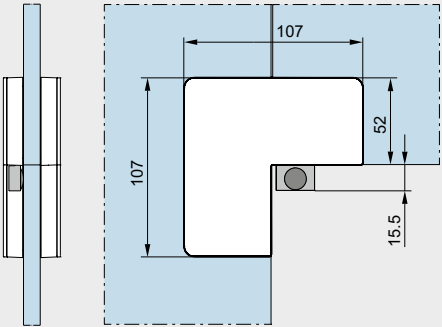
The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.

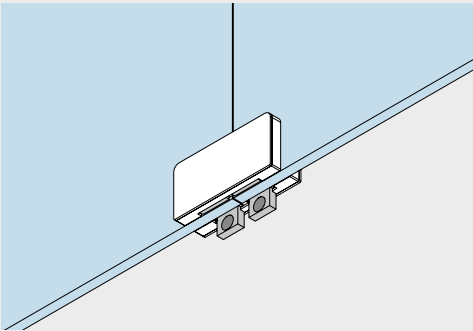
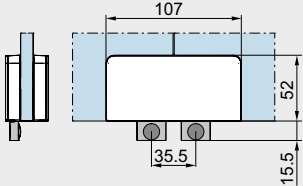
\* Left hand fin (illustration shows left hand) / right hand fin. Left or right hand are determined by view from outside.

Product description		DIN	Glass thickness	Art. No.
	<b>PT 41 Comfort patch for overpanel and sidelight</b>			
	with pivot pin	left	8–12 mm	<b>38.410</b>
		right	8–12 mm	<b>38.420</b>
	with pivot pin Ø 14 mm and fin fitting*. For use with toughened safety glass (TSG).	left	8–15 mm	<b>38.413</b>
		right	8–15 mm	<b>38.423</b>
	with blanking insert	left	8–15 mm	<b>38.416</b>
		right	8–15 mm	<b>38.426</b>
<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.				
* Left hand fin (illustration shows left hand) / right hand fin. Left or right hand are determined by view from outside.				

# Connector patches

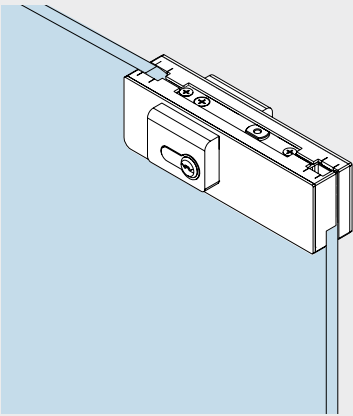
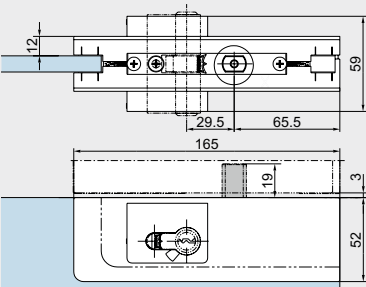
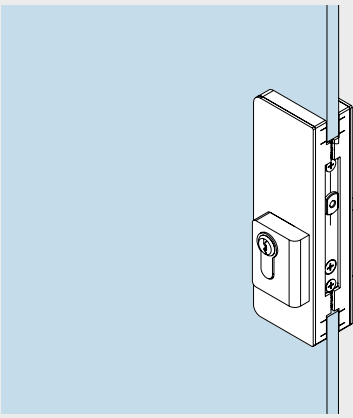
Shown with 10 mm glass. When used with other glass thicknesses, the measurements change accordingly.

	Product description	Glass thickness	Art. No.
	<b>PT 60 Premium connector</b> for double and single-action doors with 1 stop insert and 2 blanking inserts. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.  <b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.	8–15 mm	<b>42.600</b>
		15–19 mm	<b>42.602</b>
		19–22 mm	<b>42.603</b>
	<b>PT 60 Comfort connector</b> for double and single-action doors with 1 stop insert and 2 blanking inserts. For use with toughened safety glass (TSG).  <b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.	8–15 mm	<b>38.600</b>

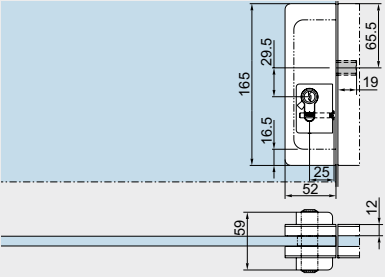
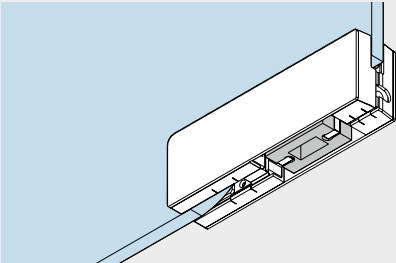
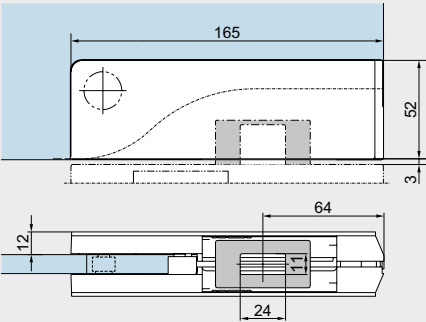
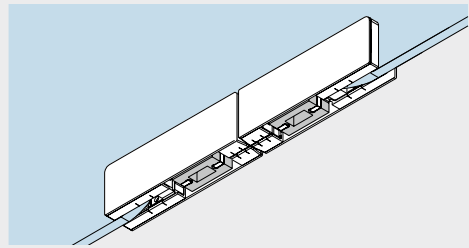
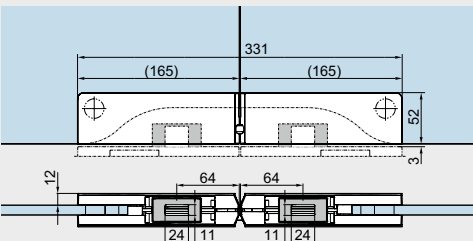
	Product description	Glass thickness	Art. No.
	<b>PT 70 Premium overpanel connector</b> with 2 stop inserts and 2 blanking inserts. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm	<b>42.700</b>
		15–19 mm	<b>42.702</b>
		19–22 mm	<b>42.703</b>
	<b>PT 70 Comfort overpanel connector</b> with 2 stop inserts and 2 blanking inserts. For use with toughened safety glass (TSG).	8–15 mm	<b>38.700</b>

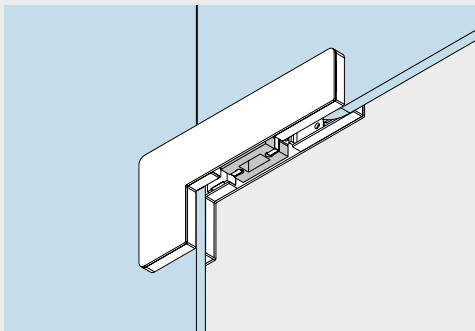
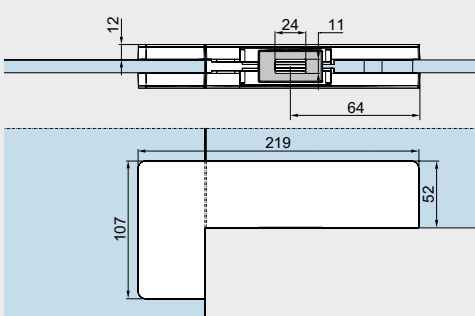
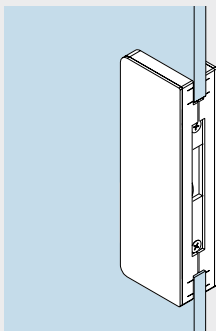
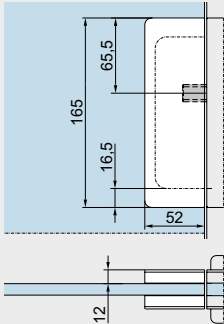
# Locks and strike boxes

**Shown with 10 mm glass. When used with other glass thicknesses, the measurements change accordingly.**

	Product description	Glass thickness	Art. No.
	<b>US 10 Premium corner lock</b> prepared for Euro profile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides 14 mm thick, for use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required. <b>With the order please indicate the exact glass thickness!</b> <b>Lock insert:</b> <ul style="list-style-type: none"> <li>• maximum corrosion resistance according to EN 1670, class 4</li> <li>• with regard to type test according to EN 12209:2003*</li> </ul>	8–19 mm 19–22 mm	<b>42.510</b> <b>42.517</b>
	prepared for round cylinders (Swiss profile round cylinder 22 mm) for use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required. <b>With the order please indicate the exact glass thickness!</b>	8–19 mm 19–22 mm	<b>42.513</b> <b>42.516</b>
	<b>US 10 Comfort corner lock</b> for use with toughened safety glass (TSG)  round cylinders, for use with toughened safety glass (TSG)	8–19 mm	<b>38.513</b>
			
	<b>US 20 Premium center lock</b> prepared for Euro profile cylinder, single throw, bolt projection 20 mm, with security rosettes 14 mm thick, for use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required. <b>With the order please indicate the exact glass thickness!</b> <b>Lock insert:</b> <ul style="list-style-type: none"> <li>• maximum corrosion resistance according to EN 1670, class 4</li> <li>• with regard to type test according to EN 12209:2003*</li> </ul>	8–19 mm 19–22 mm	<b>42.520</b> <b>42.518</b>
	prepared for round cylinders (Swiss profile round cylinder 22 mm) for use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required. <b>With the order please indicate the exact glass thickness!</b>	8–19 mm 19–22 mm	<b>42.523</b> <b>42.519</b>

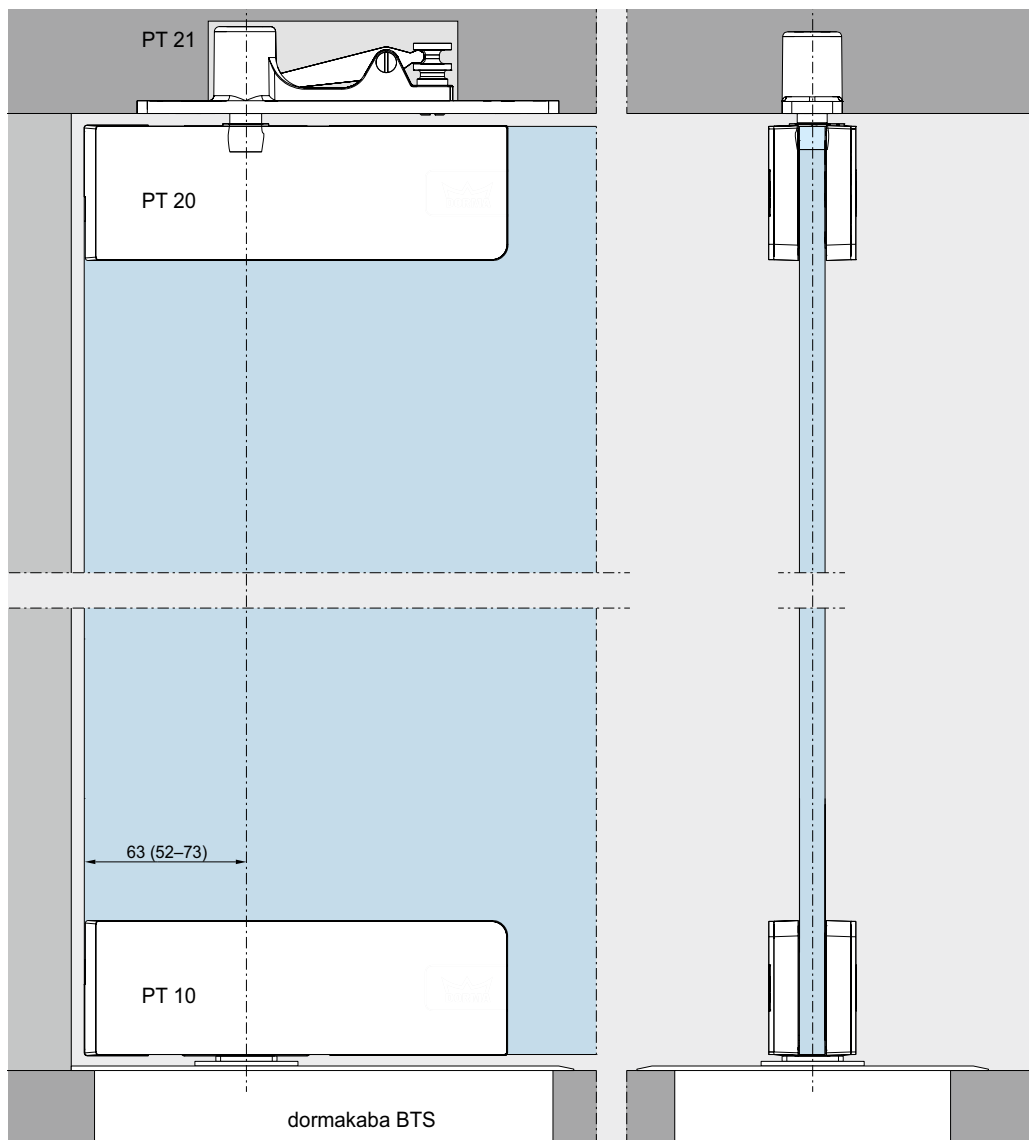
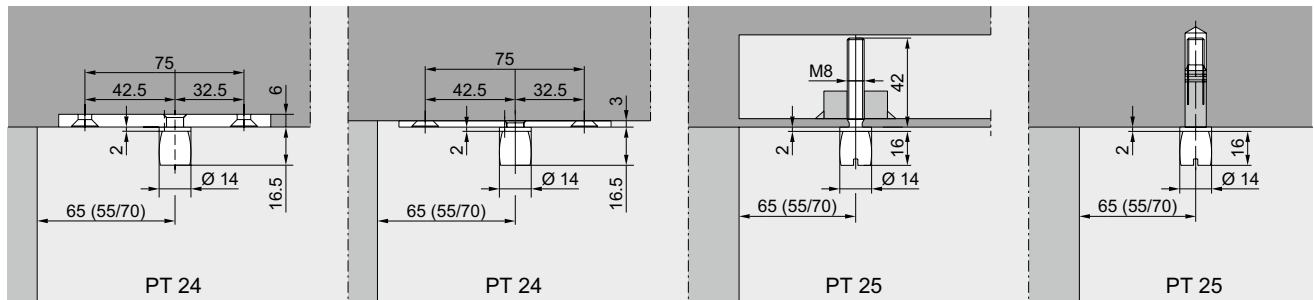


	Product description	Glass thickness	Art. No.
	<b>US 20 Comfort center lock</b> for use with toughened safety glass (TSG)	8–19 mm	<b>38.520</b>
	round cylinder, for use with toughened safety glass (TSG) <b>With the order please indicate the exact glass thickness!</b>	8–19 mm	<b>38.523</b>
	* Successful type testing according to EN 12209:2003 to 200,000 movement cycles.		
	<b>GK 30 Premium single overpanel strike box</b> with tapped hole at side. Suitable for corner lock US 10. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm 15–19 mm 19–22 mm	<b>42.530</b> <b>42.532</b> <b>42.548</b>
	To install correctly, you will need to use either a screw-on fixing bracket, a wall anchor or a threaded rod fixing, see page 31.		
	<b>GK 30 Comfort single overpanel strike box</b> with tapped hole at side. Suitable for corner lock US 10. For use with toughened safety glass (TSG).	8–12 mm	<b>38.530</b>
	To install correctly, you will need to use either a screw-on fixing bracket, a wall anchor or a threaded rod fixing, see page 31.		
	<b>GK 20 Premium double overpanel strike box</b> Suitable for corner lock US 10 consisting of two GK 30 with threaded connecting bolt. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm 15–19 mm 19–22 mm	<b>42.526</b> <b>42.528</b> <b>42.529</b>
	<b>GK 20 Comfort double overpanel strike box</b> Suitable for corner lock US 10 consisting of two GK 30 with threaded connecting bolt. For use with toughened safety glass (TSG).	8–12 mm	<b>38.526</b>

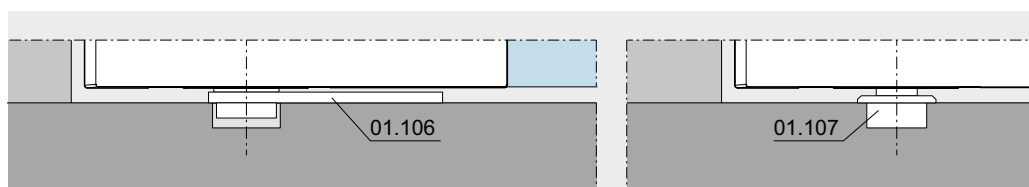
	Product description	Glass thickness	Art. No.
	<b>GK 40 Premium corner overpanel strike box</b> Suitable for corner lock US 10. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 mm 15–19 mm 19–22 mm	<b>42.540</b> <b>42.542</b> <b>42.547</b>
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.		
	<b>GK 40 Premium corner overpanel strike box</b> Suitable for corner lock US 10. For use with toughened safety glass (TSG).	8–12 mm	<b>38.540</b>
	<b>Please note:</b> The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.		
	<b>GK 50 Premium strike box</b> Suitable for center lock US 20. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–19 mm 19–22 mm	<b>42.550</b> <b>42.553</b>
	<b>With the order please indicate the exact glass thickness!</b>		
	<b>GK 50 Comfort strike box</b> Suitable for center lock US 20. For use with toughened safety glass (TSG).	8–19 mm	<b>38.550</b>
	<b>With the order please indicate the exact glass thickness!</b>		

# Installation details (in contrast to UNIVERSAL)

**Advisory:** Please note that the upper pivots for MUNDUS and those for UNIVERSAL are not mutually compatible. The spigot diameters of the MUNDUS fittings vary.



Fixing of top pivots and top centers for PT 20.



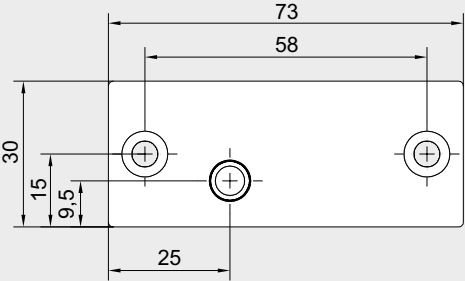
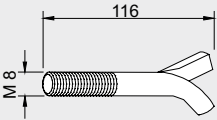
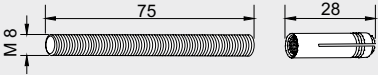
Fixing of floor springs, pivot bearings for PT 10.

# Top bearing, pivots for MUNDUS

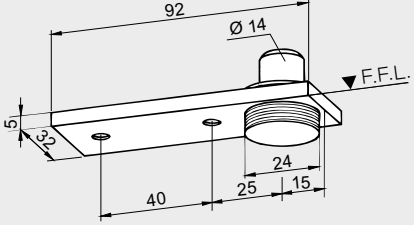
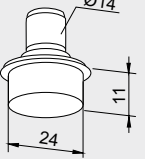
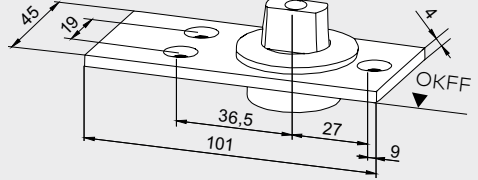
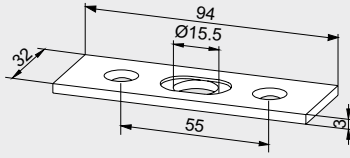
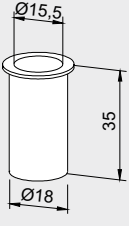
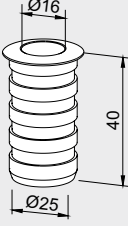
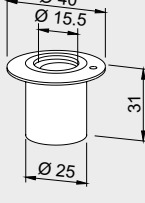
**Advisory:** Please note that the upper pivots for MUNDUS and those for UNIVERSAL are not mutually compatible. The spigot diameters of the MUNDUS fittings vary.

	Product description	Art. No.
	<b>MUNDUS PT 21 frame portion top centre</b> with removable pin  Weight in kg: 0.335  14 mm Ø	<b>38.210</b>
	<b>MUNDUS PT 21 frame portion top centre</b> with removable pin, with cover plate  Weight in kg: 0.345  14 mm Ø	<b>38.211</b>
	<b>MUNDUS PT 24 pivot</b> with fixing plate, material thickness 6 mm, <b>to let into ceiling</b>  Weight in kg: Aluminum 0.058  14 mm Ø	<b>38.240</b>
	<b>MUNDUS PT 24 pivot</b> with fixing plate, material thickness 3 mm, <b>to screw on the ceiling</b>  Weight in kg: Aluminum 0.042 Stainless steel 0.074  14 mm Ø	<b>38.241</b>
	<b>MUNDUS PT 25 pivot</b> with plug  Weight in kg: 0.044  14 mm Ø	<b>38.250</b>

# Wall connection for MUNDUS

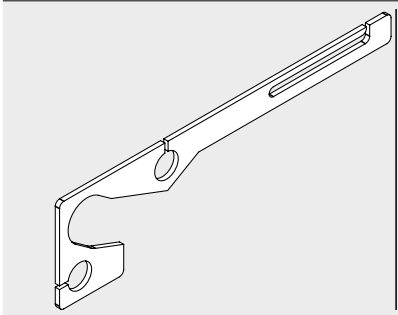
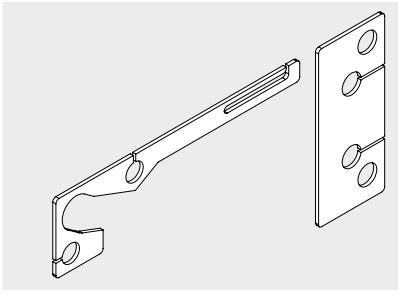
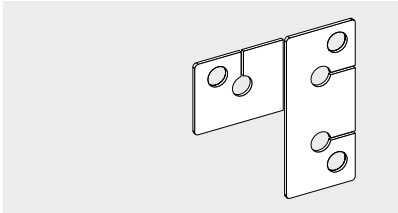
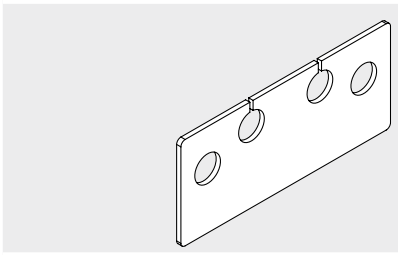
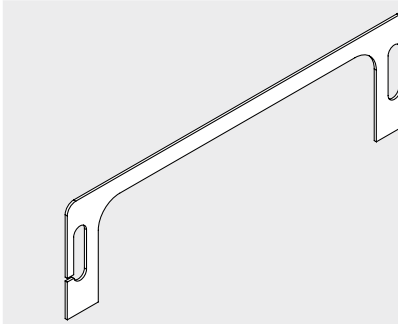
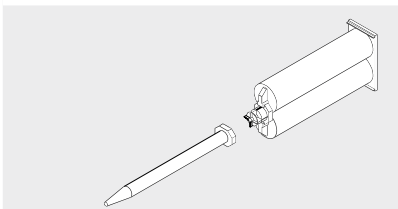
	Product description	Art. No.
	<p><b>Fixing plate</b> for overpanel patch fitting PT 30 and overpanel strike box GK 30</p> <p>Weight in kg: 0.041</p> <p>Not available in brass or aluminum.</p>	<b>38.313</b>
	<p><b>Wall anchor</b> with thread M 8 for overpanel patch</p> <p>Weight in kg: 0.040</p>	<b>01.133</b>
	<p><b>Threaded rod</b> M 8 with plug for overpanel patch</p> <p>Weight in kg: 0.032</p>	<b>01.134</b>

# Floor bearing, lock keeper plate, floor socket for MUNDUS

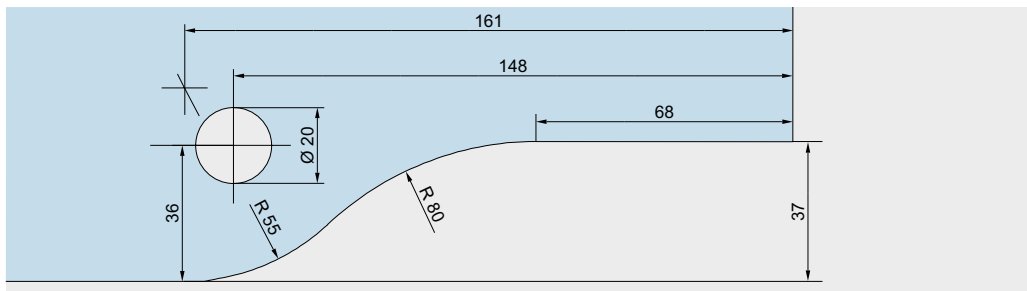
	Product description	Art. No.
	<b>Floor pivot bearing</b> with round pivot 14 mm Ø, and cover plate; height adjustable by 5 mm max. door weight 100 kg  Weight in kg: Aluminum 0.155 Brass 0.170 Stainless steel 0.169	<b>01.106</b>
	<b>Floor pivot bearing</b> with round pivot 14 mm Ø and pin 24 mm Ø max. door weight 100 kg  Weight in kg: 0.078	<b>01.107</b>
	<b>Floor bearing</b> with profile spindle (longer spindle on request), max. door weight 200 kg  Stainless steel, max. door weight 200 kg  Weight in kg: 0.254	<b>04.602</b>          <b>04.603</b>
	<b>Lock keeper plate,</b> stainless steel, two parts, adjustable ± 5 mm  Weight in kg: 0.048	<b>05.190</b>
	<b>Floor socket,</b> zinc coated brass for lock bolt  Weight in kg: 0.020	<b>05.192</b>
	<b>Floor socket,</b> aluminum, with spring and plastic stopper, dirt protection  Weight in kg: 0.026	<b>05.193</b>
	<b>Eccentric socket,</b> eccentric, zinc coated brass, with adjustable plastic socket insert  Weight in kg: 0.020	<b>05.194</b>
<b>05.192</b>	<b>05.193</b>	<b>05.194</b>



# Accessories for use with laminated safety glass

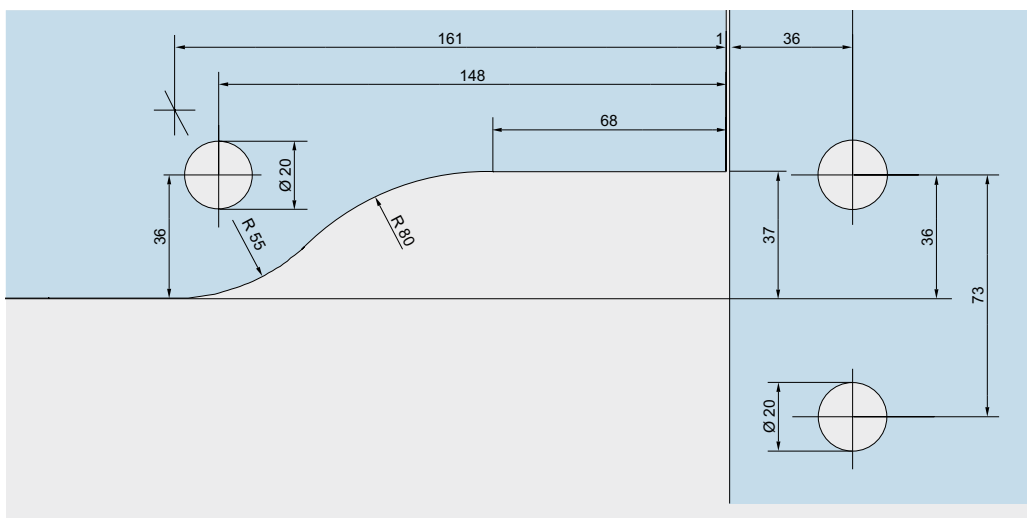
	Product description	Art. No.
	<b>MUNDUS Premium LSG gaskets</b> PT 10/20/30/GK 30 LSG glue 07.631 is needed	<b>42.951</b>
	<b>MUNDUS Premium LSG gaskets</b> PT 40 LSG glue 07.631 is needed	<b>42.952</b>
	<b>MUNDUS Premium LSG gaskets</b> PT 60 LSG glue 07.631 is needed	<b>42.953</b>
	<b>MUNDUS Premium LSG gaskets</b> PT 70 LSG glue 07.631 is needed	<b>42.954</b>
	<b>MUNDUS Premium LSG gaskets</b> US 10/20/GK 50 LSG glue 07.631 is needed	<b>42.955</b>
	<b>Glue and nozzle for LSG</b>	<b>07.631</b>

# Glass preparation patch fittings



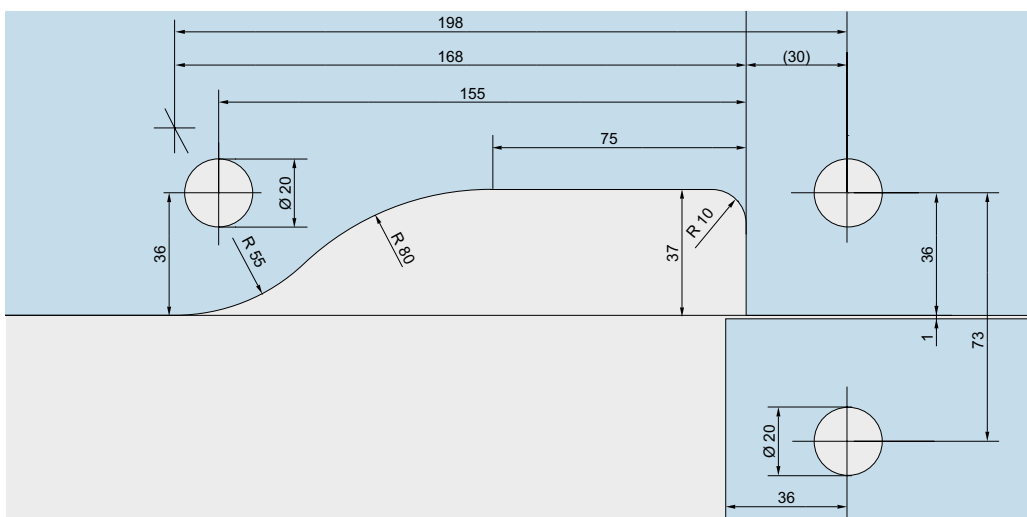
## PT 10, PT 20, PT 22, PT 30

Top and bottom  
patches,  
overpanel patch



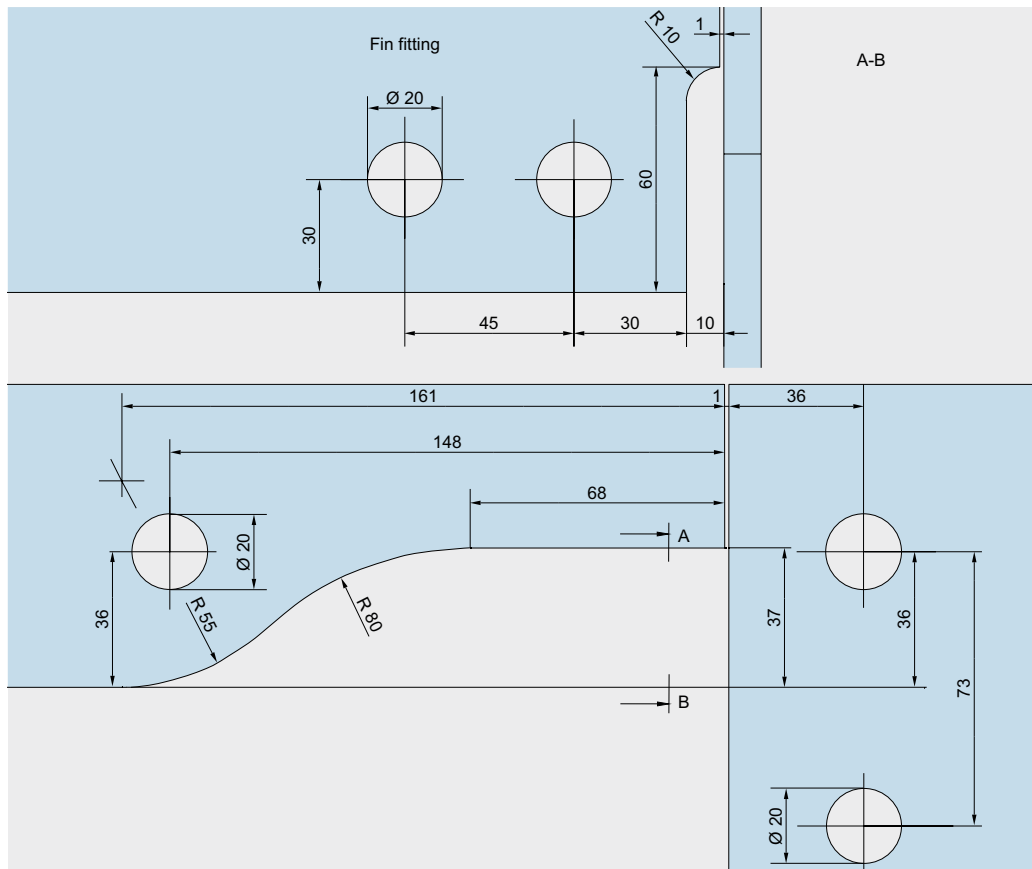
## PT 40

Patch for  
overpanel and  
sidelight

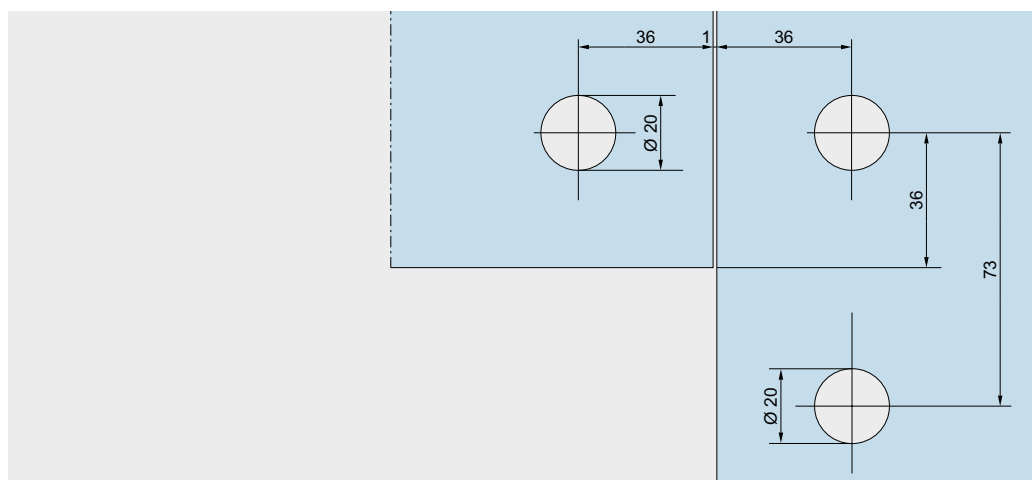


## PT 40

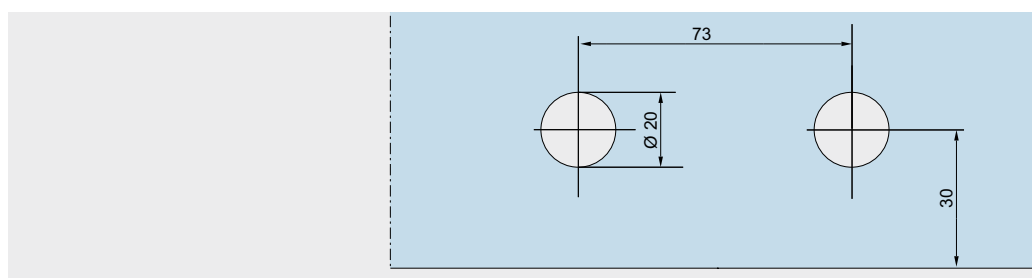
Angle patch fitting  
with continuous  
overpanel

**PT 41**

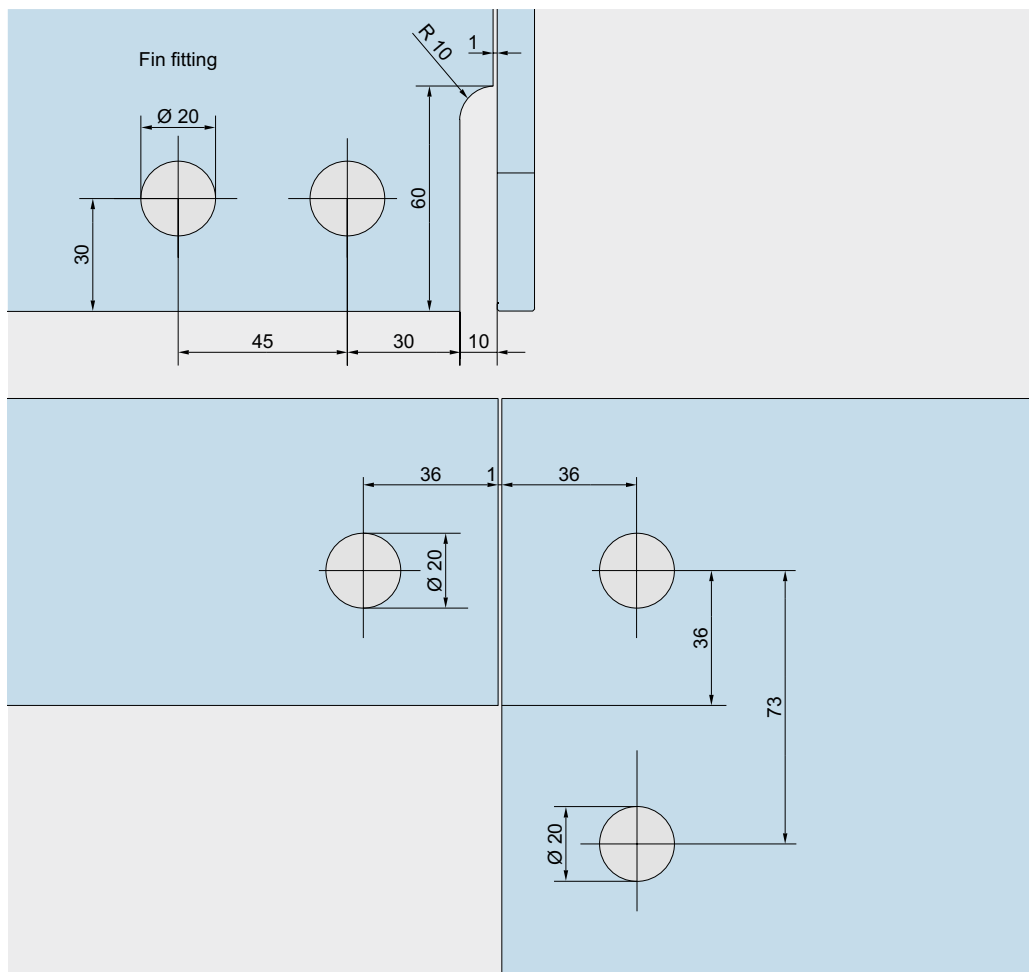
Patch for  
overpanel and  
sidelight with  
fin fitting inside

**PT 60**

Connectors  
for overpanels  
and sidelights

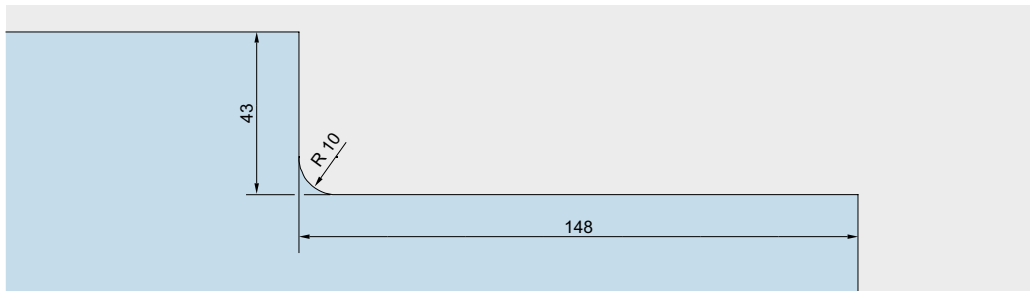
**PT 70**

Overpanel  
connector

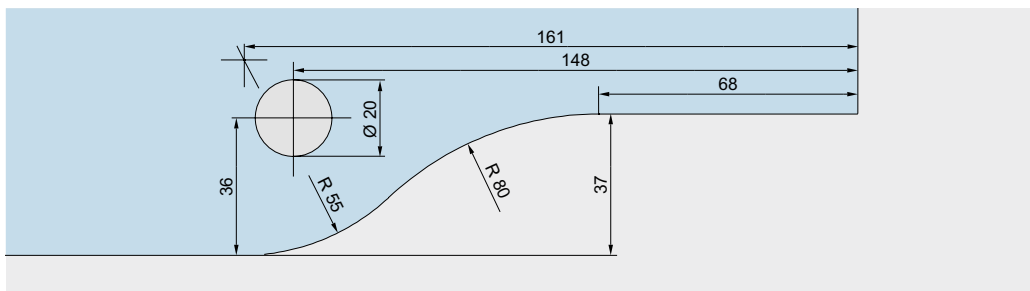
**PT 61**

Single overpanel  
connector  
with fin fitting  
inside

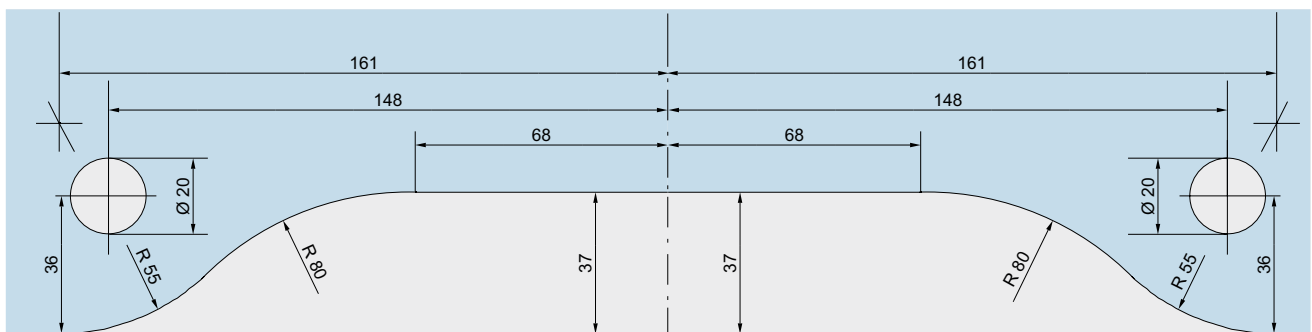
# Glass preparation locks and strike boxes



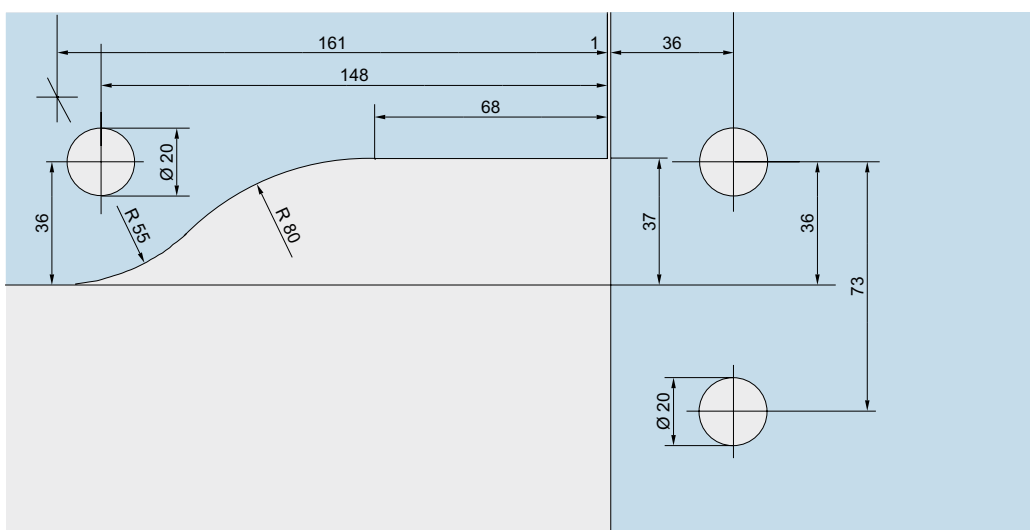
**US 10**  
Corner locks



**GK 30 (PT 30)**  
Single overpanel  
strike box



**GK 20**  
Double overpanel  
strike box



**GK 40 (PT 40)**  
Corner overpanel  
strike box

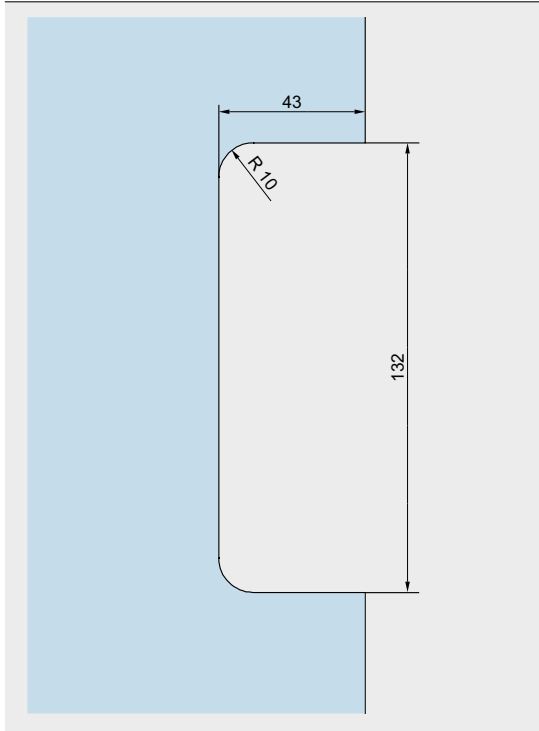
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**Product description**

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**US 20, GK 50**

Center lock and strike box to suit center lock



**Space for your notes**



# Content

## UNIVERSAL

42	<b>General information</b>
44	<b>Type illustration</b>
48	<b>Components</b>
60	<b>Glass preparation</b>
70	<b>Installation details</b>
204	<b>Accessories</b>
226	<b>Safety-related information</b>



**UNIVERSAL**

# UNIVERSAL ... as the name says

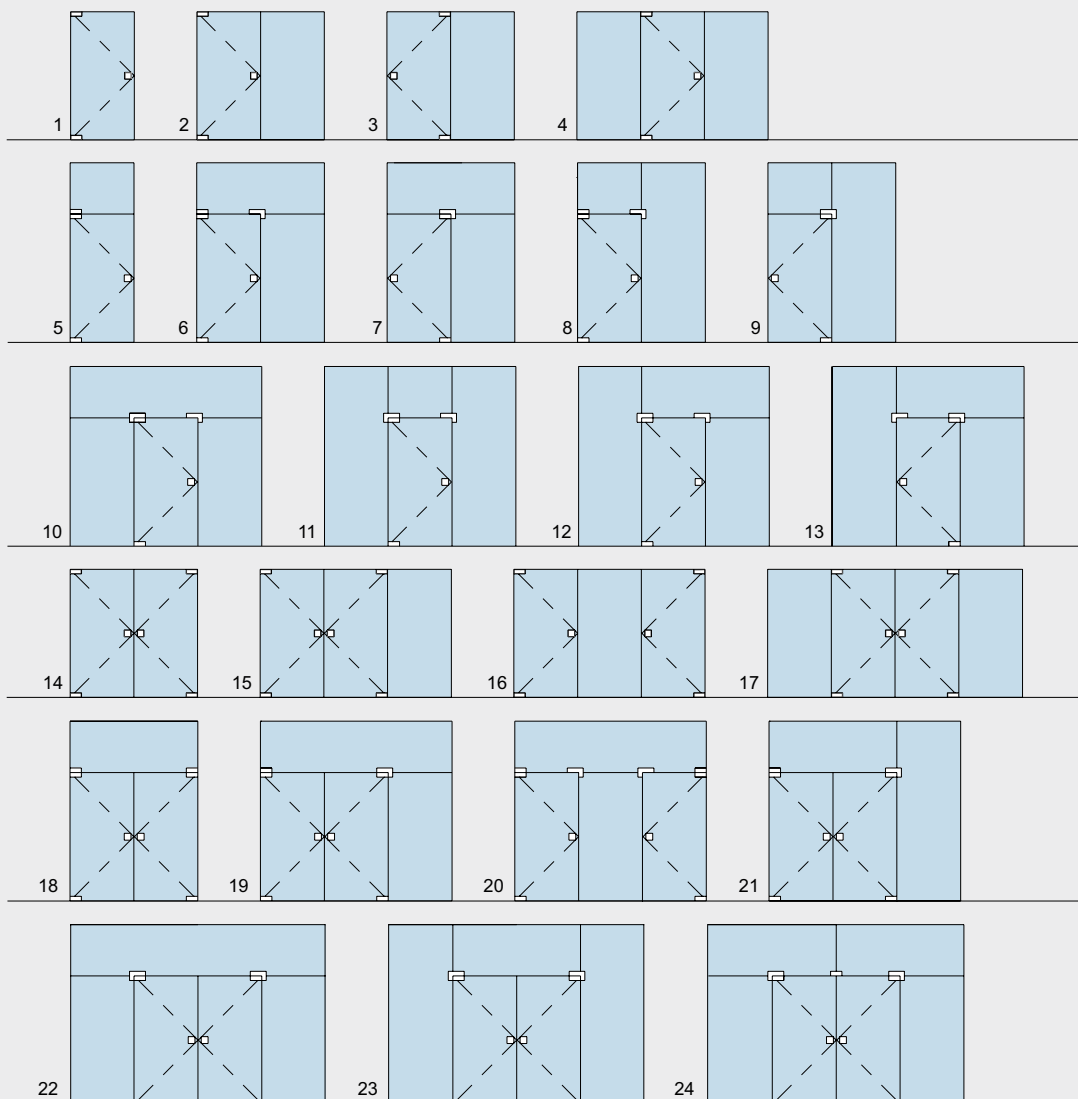
With its broad spectrum of basic types and variants, the UNIVERSAL range of patch fittings enables the realisation in toughened glass of almost any conceivable design. Toughened glass assemblies can be provided with fixed parts in widely differing arrangements – with corner fittings or fin fittings at different angles, and with double or single-action doors in single-leaf or double-leaf designs.

## Easy glass preparation, secure fixing

DORMA-Glas has an intimate knowledge of the special properties of glass as a building material. This has led to the design of fittings requiring only minimal glass preparation – a quick and easy cut-out with additional holes. Carefully considered and positive measures have been taken to create the maximum clamping surface with optimum clamping efficiency.

## Suitable for common glass thicknesses

UNIVERSAL fittings are supplied as standard with gasket to suit 10 mm glass (TSG). For 8 mm and 12 mm glass, correspondingly thicker and thinner gasket is available. Some patches are even designed to fit directly with different glass thicknesses.



**Variable pivot point**

The inserts for corner and overpanel patches in the UNIVERSAL program have been designed and manufactured to give two options in the pivot point distance from the sidepanel or frame. It can be either 55 mm or 65 mm. At 65 mm pivot point and the use of a special round profile (page 148) doors can be built with a constant air gap of only 4 mm. For information regarding patch fittings UNIVERSAL with 15 mm pivot point for pinch free doors see page 62 and following pages.

**Reliability built in**

Quality materials and thorough workmanship mean that UNIVERSAL fittings have the features necessary to meet the most demanding of specifications. The fittings are designed to cope with large and heavy doors up to a maximum weight of 110 kgs: for instance, a door blade 3,000 mm high by 1,100 mm wide, using 12 mm glass is quite possible. Please contact our Application Engineering department for more information. For heavier and wider doors up to a maximum of 150 kg and max. 1,400 mm and for high frequented doors, rails with reinforced straps are available.

**Matching range of locks**

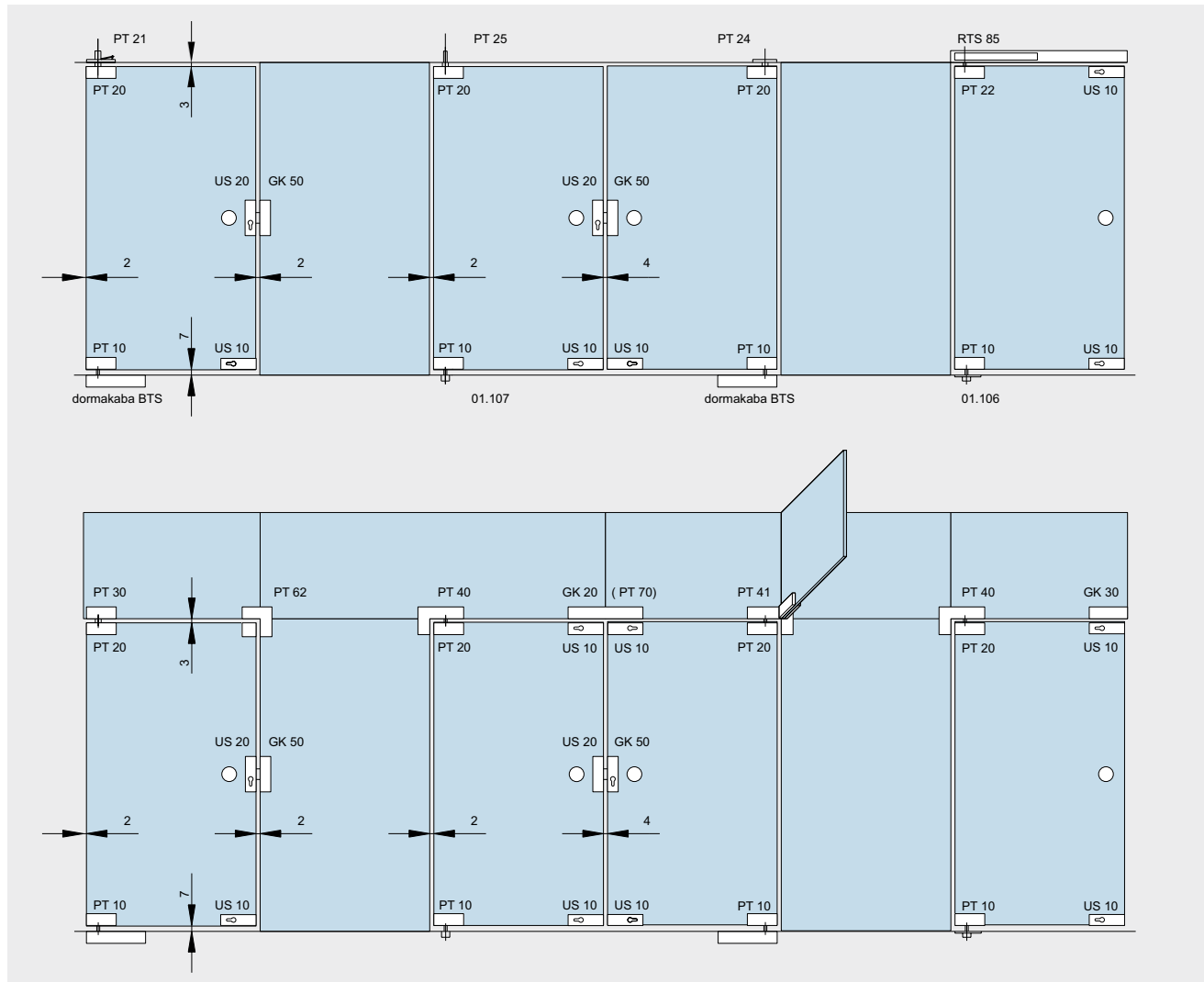
The UNIVERSAL range includes every type of accessory, and of course, a variety of locks and strike boxes in a matching design concept, giving the designer plenty of choice from the options available.

**Short delivery times**

All the common patterns and types are available ex-stock (factory). Specials will be prepared promptly.

# Type section

**Toughened glass assemblies with fittings  
(55/65 mm pivot point) and locks.**  
All standard assembly types see page 42.



BTS = dormakaba Floor spring  
GK = Strike box

PT = Centre hung door fittings  
RTS = Transom closer

US = Lock

## Maximum door weight and width for UNIVERSAL fittings

max. door weight: 110 kg\*

max. door width: 1,100 mm\*\*

For doors with higher frequency and in public areas we would advice to use a door rail for doors above 110 kg and door width larger than 1,100 mm. For door weights up to 150 kg and widths up to 1,400 mm door rails should be used.

### \* For door heights up to 2,500 mm

For doors with a height of more than 2,500 mm we have to keep additional conditions/limits:

- Glass thickness  $\geq 10$  mm
- + Usage of a handle bar with 3 connection points in minimum and a minimum height of 1/2 door height

### \*\* Use of door closers:

Doors  $\leq 1,100$  mm must be provided with door closers of type EN 3 (with or without backcheck), and doors  $> 1,100$  mm need to be fitted with larger door closers (e.g. EN 4, 5 or 6) without backcheck.

**Torque for fixing screws**

Screws M 6: 10 Nm (4 mm)\*

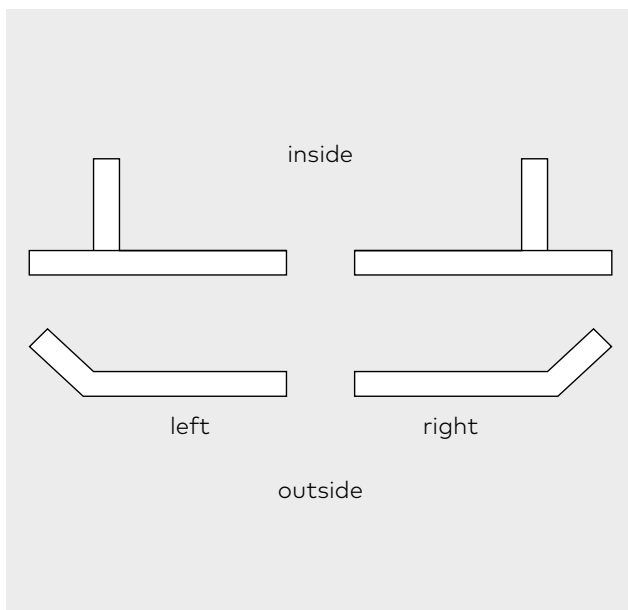
Screws M 6: 15 Nm (5 mm)\*

Screws M 8: 20 Nm (5 mm)\*

\*Allan key size

**Please note If angle fittings or fin fittings are used:**

"Left" or "Right" have to be determined in any case by view from outside and above.



# UNIVERSAL Motion – the self-closing patch fitting

A patch fitting with hydraulic self-closing function is not just convenient but also efficient: The hydraulic technology proves its advantage without requiring a power supply and any visible mechanism. UNIVERSAL Motion is like a reliable employee with intrinsic values: the space-saving technology is integrated in the compact bottom patch fitting and does not require any additional installation space.

## Eight reasons for the one.

- **Completely smart.** In UNIVERSAL Motion, the door closing function is integrated in a compact, well-shaped unit. A subtly functional design.
- **Almost invisible.** What looks like a patch fitting manages the closing of doors by itself. An additional floor spring is not required.
- **Clear savings.** Less effort and cost-efficient. You need only two fittings for the self-closing swing door: UNIVERSAL Motion and PT 20.
- **Comfortable function.** The door closes softly by itself. The hydraulic door movement is achieved simply in the fitting – without extra installation, without power supply.
- **Simple installation.** UNIVERSAL Motion consists of very few parts. The glass door is clamped in the fitting. No prior changes to the floor are required.
- **For the existing building.** Retrofitting is clearly simpler than before. The floor need not be sawn nor milled beforehand.
- **Simple positioning.** The material and composition of the floor are not critical factors. You need to place only four vertical bores for the bottom pivot bearing.
- **Individual colour design.** Based on the stainless steel surface and using our own powder coating facility, the DORMA-Glas colour palette creates systematic diversity. The colour spectrum corresponds to the standard UNIVERSAL fittings. Individual colour design according to RAL is also possible. Simply matching the contemporary interior.

\* Door widths smaller than 700 mm can be realized from a product technical point of view. However, this is not recommended, as the opening forces to be applied then lie outside the DIN 12217 standard.



## Technical features:

Glass thickness: 10 + 12 mm ESG  
 Door width: von 650 mm bis 950 mm\*  
 Door height: max. 3,000 mm  
 Door weight: max. 80 kg  
**Pivot point: 65 mm**

The screw depth in the bottom of the supplied screws for the floor pivot bearing is 30 mm.

Available in the surface variants stainless steel and the product variants with 90 degree hold-open (Tolerance window: +/- 3 degrees) and without hold-open.

UNIVERSAL Motion is intended for indoor use. The fitting is not suitable for outdoor applications and for doors in high-frequency areas / public buildings.

UNIVERSAL Motion is tested by DORMA-Glas according to DIN EN 1191:2013 for 200,000 test cycles.

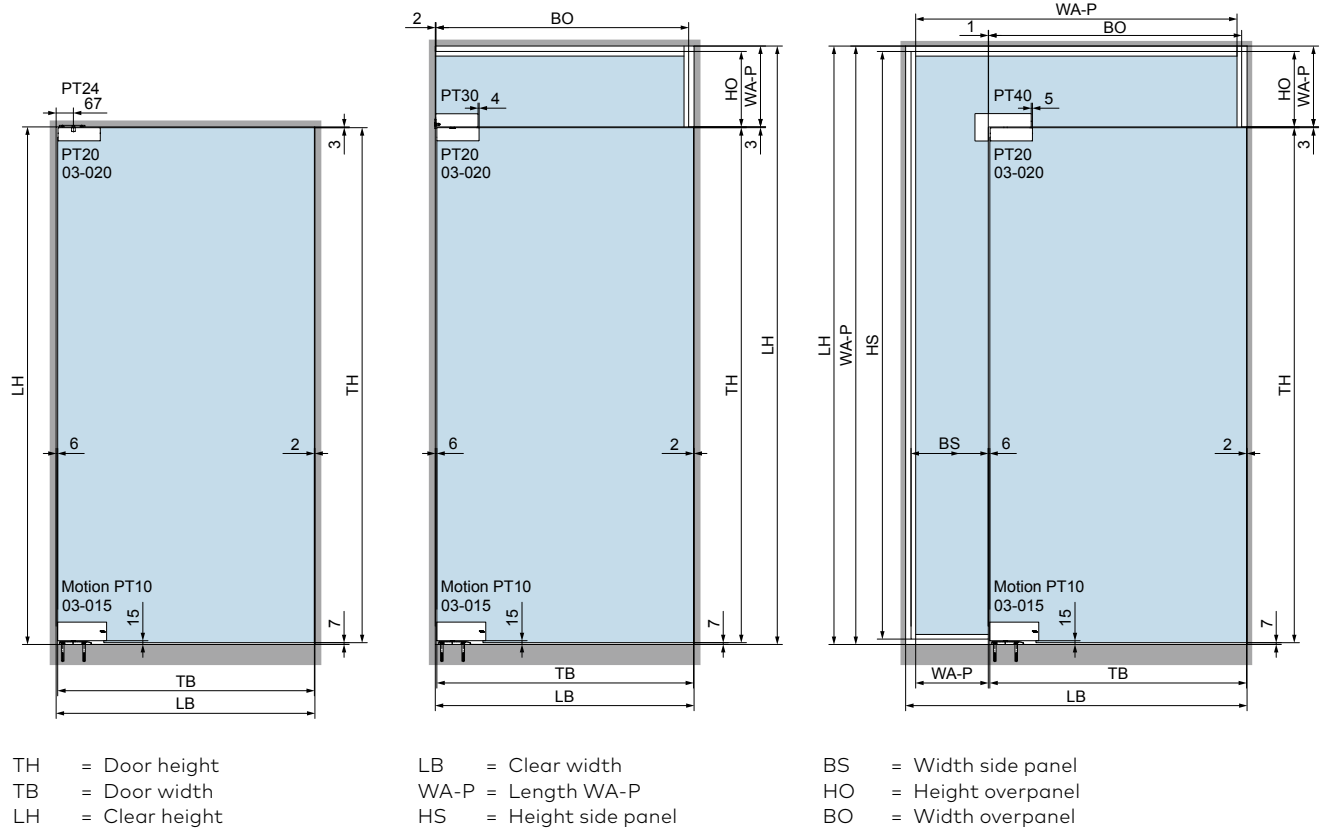
## Technical notes:

The 90-degree detection has a tolerance range of +/- 3 degrees due to the manufacturing process.

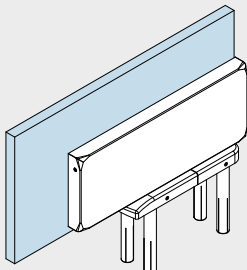
The self-closing function of the fitting takes place between 4 degrees and 70 degrees opening angle of the door.

Due to insufficient pressure equalisation within the rooms, the door can lose its zero position when closed, caused by pressure or suction loads. This is due to the environment or external influences and does not represent a product defect. All spring-supported and hydraulic closing devices are affected. The problem can only be mitigated or avoided by creating significantly larger and stronger floor springs (e.g. dormakaba BTS 80) can be used (depending on the wind loads).



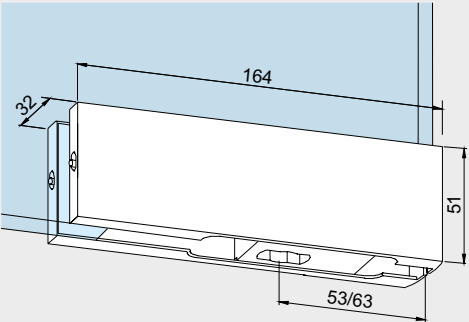
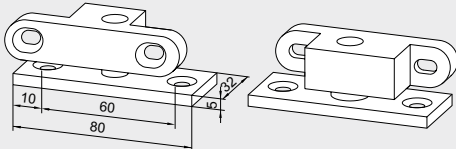
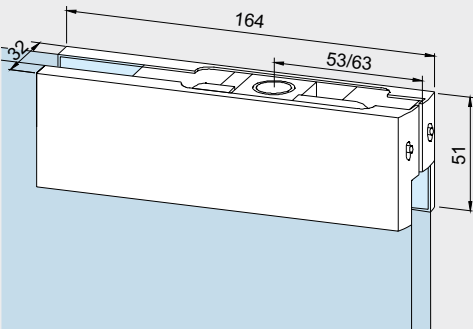
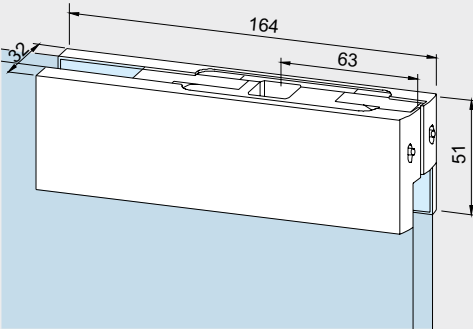
**Note:**

To extend the tolerance range, it is possible to increase the glass bore for the PT20 from  $\varnothing 20$  to  $\varnothing 22$ .

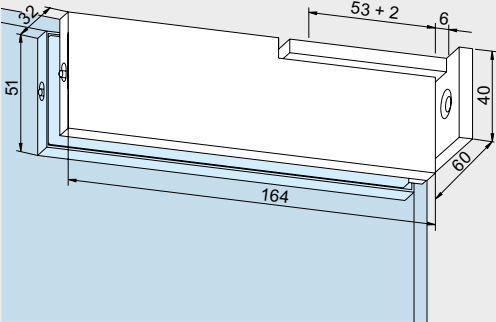
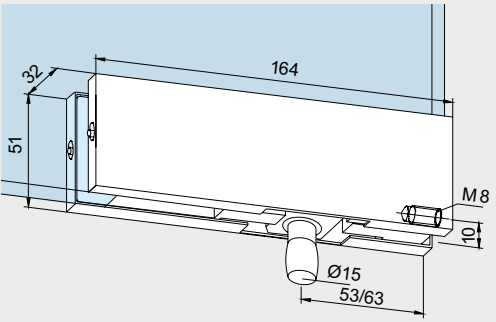
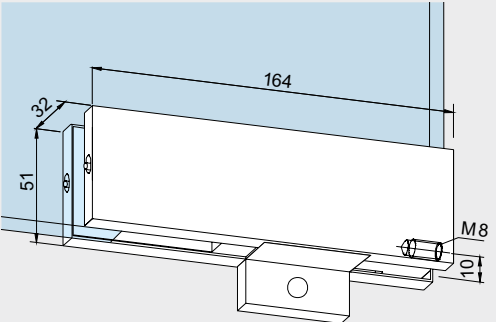
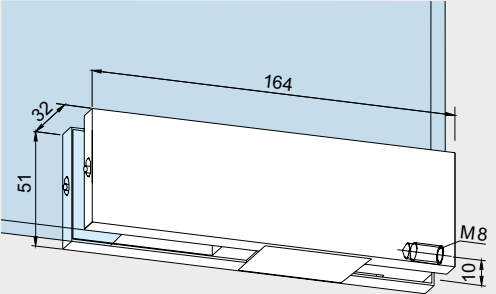
	Produktbeschreibung	Glasdicke	Art.-Nr.
	<b>UNIVERSAL Motion,</b> lower corner fitting with hydraulic door closing function, including floor pivot bearing and fixing material		
	with 90 degrees hold-open	10 + 12 mm	<b>03.147</b>
	without hold-open	10 + 12 mm	<b>03.148</b>
	Weight in kg: Satin stainless steel:	2.413	

# Patch fittings UNIVERSAL

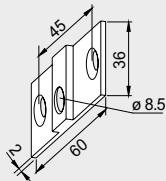
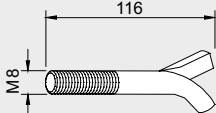
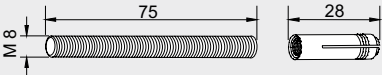
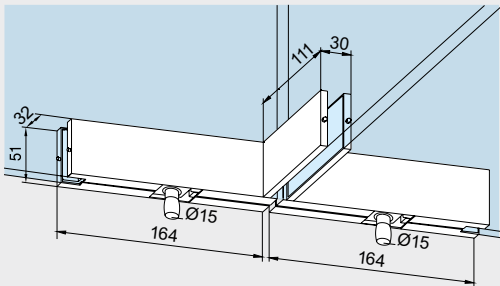
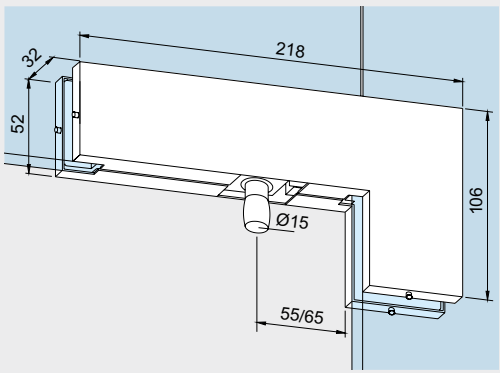
Shown with 10 mm glass. From 12 mm glass the measurements change accordingly.  
Accessories see page 204 and following.

	Product description	Glass thickness	Art. No.
	<b>PT 10 UNIVERSAL</b>	10 mm	<b>*03.100</b>
	<b>Bottom patch</b> with insert for floor spring spindle, or round pivot 14 mm Ø	13 - 19 mm	<b>03.280</b>
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg:		
	Aluminum	0.564	
	Brass	0.680	
	Stainless steel	0.662	
	<b>Floor pivot bearing</b>	10 mm	<b>01.137</b>
	for damp environments, with insert for PT 10 UNIVERSAL (not suitable for MUNDUS PT10) <b>without floor recess,</b> max. door weight 80 kg		
	Weight in kg:	0.195	
	Only for UNIVERSAL applications, not suitable for MUNDUS.		
	<b>PT 20 UNIVERSAL</b>	10 mm	<b>*03.110</b>
	<b>Top patch</b> with plastic socket for top pivot 15 mm Ø	13 - 19 mm	<b>03.281</b>
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg:		
	Aluminum	0.477	
	Brass	0.593	
	Stainless steel	0.575	
	<b>PT 22 UNIVERSAL</b>	10 mm	<b>03.112</b>
	<b>Top patch</b> with insert for RTS transom closer		
	Weight in kg:		
	Aluminum	0.578	
	Brass	0.695	
	Stainless steel	0.677	

\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness.  
These are available on page 212.

	Product description	Glass thickness	Art. No.
	<b>PT 29 UNIVERSAL</b> <b>Top patch</b> with pivot fixing plate, to countersink into ceiling (pivot point = 55 mm)	10 mm	<b>03.114</b>
	max. door width: 1,000 mm max. door weight: 70 kg  Weight in kg: Aluminum 0.544 Brass 0.692		
	<b>PT 30 UNIVERSAL</b> <b>Overpanel patch</b> with pivot 15 mm Ø, with M8 tapped hole at the side	10 mm 13 - 19 mm	<b>*03.120</b> <b>03.282</b>
	<b>With the order please indicate the exact glass thickness!</b>  Weight in kg: Aluminum 0.528 Brass 0.654 Stainless steel 0.636		
	<b>PT 30 UNIVERSAL</b> <b>Overpanel patch</b> with stop insert	10 mm 13 - 19 mm	<b>*03.420</b> <b>03.482</b>
	<b>With the order please indicate the exact glass thickness!</b>  Weight in kg: Aluminum 0.528 Brass 0.654 Stainless steel 0.580		
	<b>PT 30 UNIVERSAL</b> <b>Overpanel patch</b> with blank insert	10 mm 13 - 19 mm	<b>*03.421</b> <b>03.484</b> not illustrated
	<b>With the order please indicate the exact glass thickness!</b>  Weight in kg: Aluminum 0.519 Brass 0.645 Stainless steel 0.571		

\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness.  
These are available on page 212.

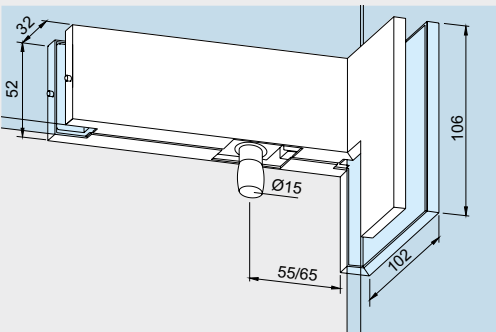
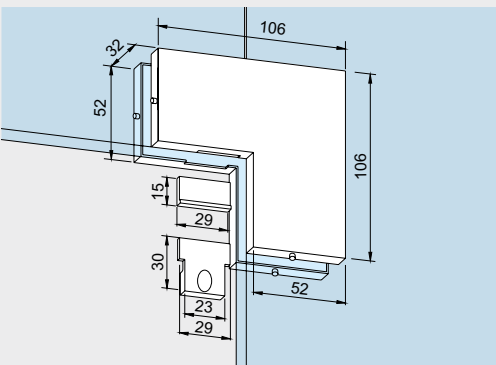
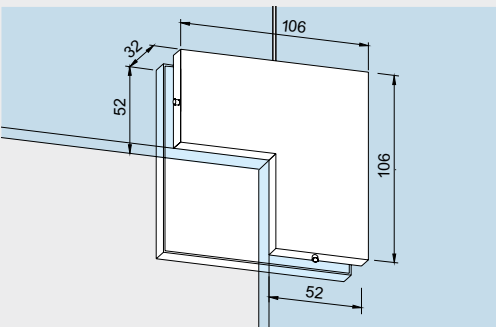
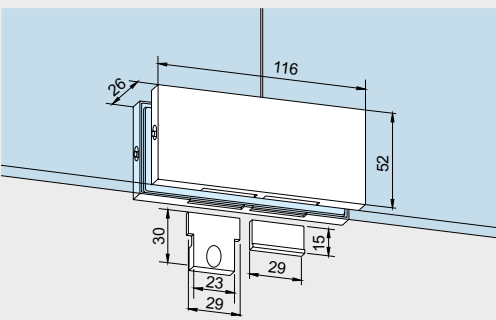
	Product description	Glass thickness	Art. No.
	<b>Fixing plate for overpanel patch PT 30 UNIVERSAL</b>  Weight in kg: Aluminum 0.016 Brass 0.038  Stainless steel not available, satin chrome on brass supplied.		<b>03.128</b>
	<b>Wall anchor</b> with thread M 8 for overpanel patch PT 30  Weight in kg: 0.040		<b>01.133</b>
	<b>Threaded rod</b> M 8 with plug for overpanel patch PT 30  Weight in kg: 0.032		<b>01.134</b>
	<b>PT 51 UNIVERSAL</b> <b>Double overpanel fitting</b> with fin fitting on one side and 2 pins 15 mm diameter Usable for glass thicknesses up to 12 mm. If thicker glasses are required, please talk to our Application Engineering people.  Weight in kg: Aluminum 1.299 Stainless steel 1.576	10 mm	<b>03.160</b>
	<b>PT 40 UNIVERSAL</b> <b>Patch for overpanel and sidelight</b> with pivot 15 mm Ø  <b>With the order please indicate the exact glass thickness!</b>  Weight in kg: Aluminum 0.755 Brass 0.958 Stainless steel 0.937	10 mm 13 - 19 mm	<b>*03.140</b> <b>03.283</b> not illustrated

\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness.  
These are available on page 212.

	Product description	Glass thickness	Art. No.
	<b>PT 40 UNIVERSAL</b> <b>Patch for overpanel and sidelight</b> with stop insert	10 mm 13 - 19 mm	<b>*03.440</b> <b>03.483</b> not illustrated
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg: Aluminum 0.755 Brass 0.958 Stainless steel 0.937		
	<b>PT 40 UNIVERSAL</b> <b>Patch for overpanel and sidelight</b> with blank insert	10 mm 13 - 19 mm	<b>*03.441</b> <b>03.485</b> not illustrated
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg: Aluminum 0.746 Brass 0.949 Stainless steel 0.928		
	<b>PT 41 UNIVERSAL</b> <b>Patch for overpanel and sidelight</b> with fin fitting inside, with pivot 15 mm Ø	10 mm	<b>**03.162/</b> <b>03.163</b>
	<b>PT 41 UNIVERSAL</b> <b>Patch for overpanels and sidelight</b> with stop insert	10 mm	<b>**03.262/</b> <b>03.263</b> not illustrated
	Weight in kg: Aluminum 0.952 Stainless steel 1.197		
	<b>PT 41 UNIVERSAL</b> <b>Patch for overpanels and sidelight</b> with fin fitting on both sides, with pivot 15 mm Ø	10 mm	<b>03.161</b>
	Weight in kg: Aluminum 1.149 Stainless steel 1.457		

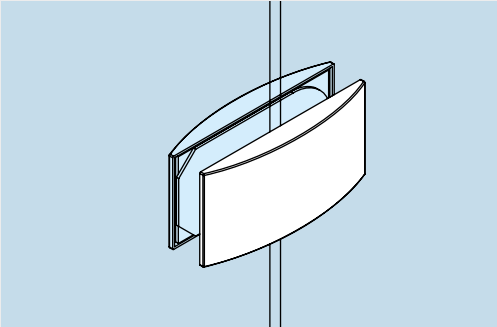
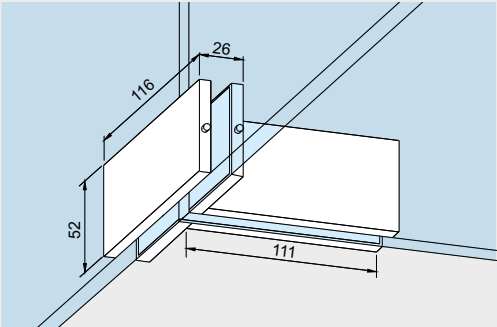
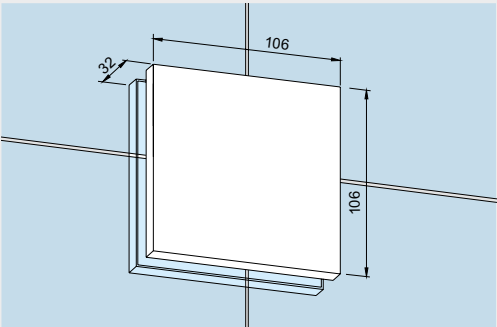
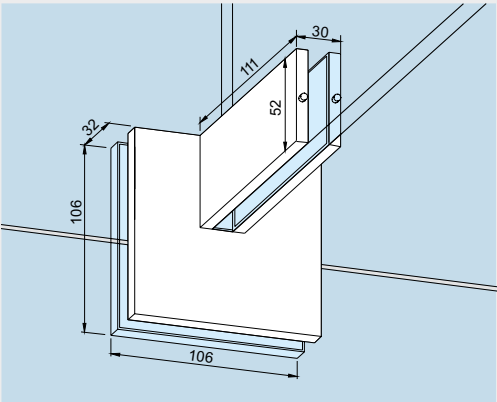
\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.

\*\* Left hand fin (illustration shows left hand) / right hand fin.  
Left or right hand are determined by view from outside.

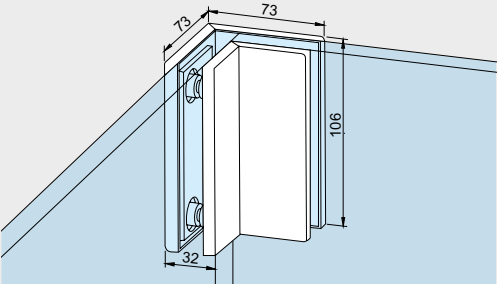
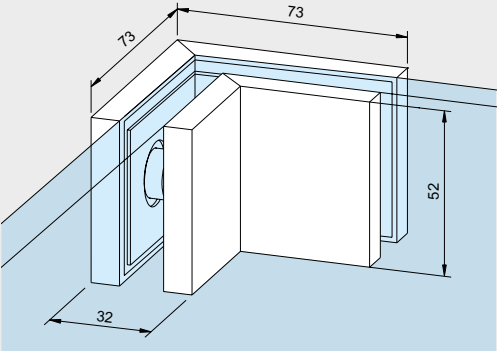
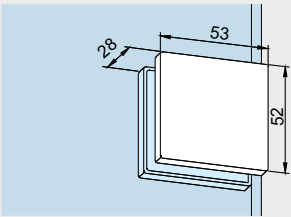
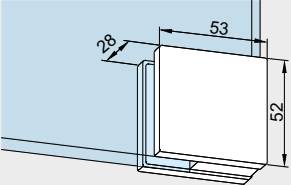
	Product description	Glass thickness	Art. No.
	<b>PT 42 UNIVERSAL</b> <b>Overpanel patch for single action doors</b> with angled connector inside, pivot 15 mm, angle 90°		<b>**03.164/</b> <b>03.165</b>
	<b>PT 60/61 UNIVERSAL</b> <b>Connector</b> for overpanel and sidelight, for double or single action doors with one stop insert and two blank inserts, also suitable for 12 mm glass thickness.	10 mm 13 - 19 mm	<b>*03.150</b> <b>03.452</b> not illustrated
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg: Aluminum 0.343 Brass 0.461 Stainless steel 0.436		
	<b>PT 62 UNIVERSAL</b> <b>Connector</b> for overpanel and sidelight, with stop		<b>03.173</b>
	Weight in kg: Aluminum 0.475 Stainless steel 0.670		
	<b>PT 70 UNIVERSAL</b> <b>Overpanel connector</b> with two stop inserts and two blank inserts, also suitable for 12 mm glass thickness	13 - 19 mm	<b>*01.150</b> <b>01.158</b> not illustrated
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg: Aluminum 0.272 Stainless steel 0.335		

\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness.  
These are available on page 212.

\*\* Left hand fin (illustration shows left hand) / right hand fin.  
Left or right hand are determined by view from outside.

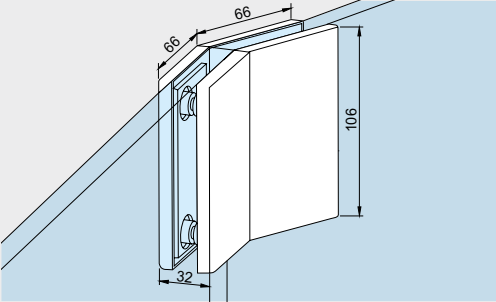
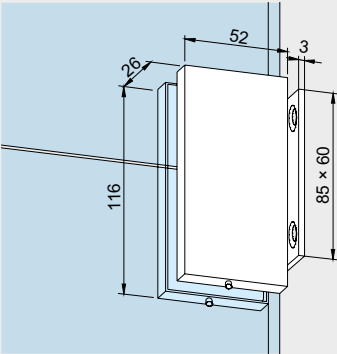
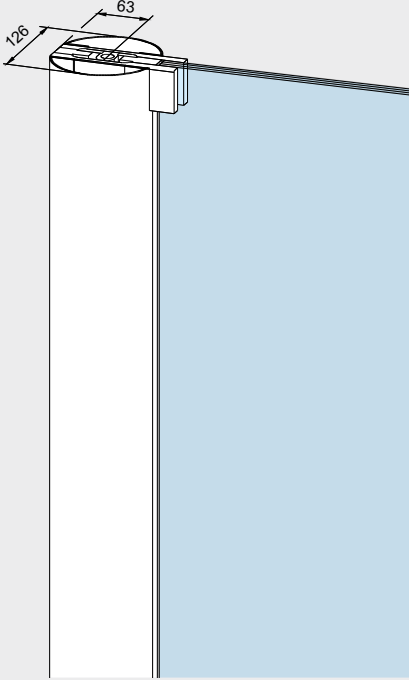
	Product description	Glass thickness	Art. No.
	<b>Overpanel-sidelight connector</b>		<b>12.536</b>
	Weight in kg: Aluminum 0.146		
	<b>PT 71 UNIVERSAL Overpanel connector with fin fitting</b>		<b>01.161</b>
	Weight in kg: Aluminum 0.458 Stainless steel 0.608		
	<b>PT 80 UNIVERSAL Connector</b>		<b>*03.170</b>
	With the order please indicate the exact glass thickness!	13 - 19 mm	<b>03.472</b> not illustrated
	Weight in kg: Aluminum 0.555 Stainless steel 0.780		
	<b>PT 81 UNIVERSAL Connector with fin fitting</b>		<b>03.175</b>
	Weight in kg: Aluminum 0.784 Stainless steel 1.065		

\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.

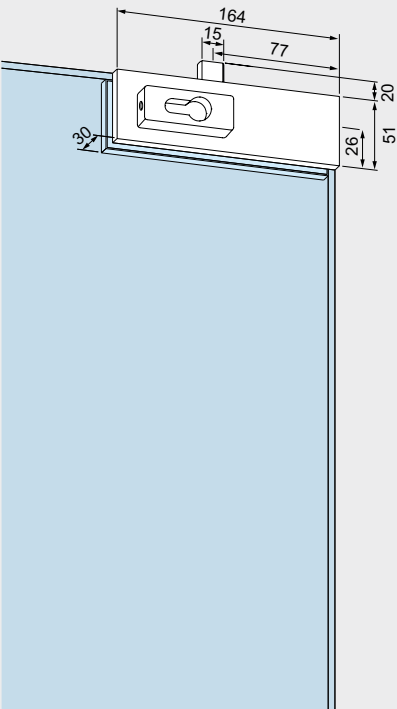
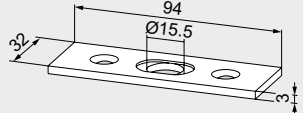
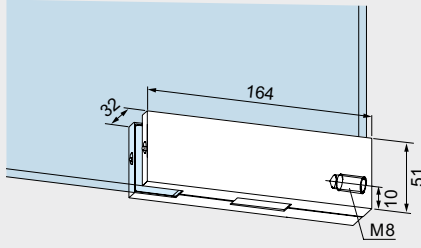
	Product description	Glass thickness	Art. No.
	<b>PT 80 UNIVERSAL Connector</b> angle 90°		<b>03.171</b>
	Weight in kg: Aluminum 0.467 Stainless steel 0.540		
	<b>PT 80 UNIVERSAL Connector,</b> shortened, angle 90°		<b>03.470</b>
	Weight in kg: Aluminum 0.236 Stainless steel 0.270		
	<b>PT 90 UNIVERSAL Screw on fitting</b>	13.5–19 mm	<b>07.021</b>
	Weight in kg: Aluminum 0.120 Brass 0.160 Stainless steel 0.155		<b>07.210</b>
	<b>PT 91 UNIVERSAL Corner fitting</b>	13.5–19 mm	<b>07.023</b>
	Weight in kg: Aluminum 0.120 Brass 0.160 Stainless steel 0.155		<b>07.211</b>

\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness.  
These are available on page 212.



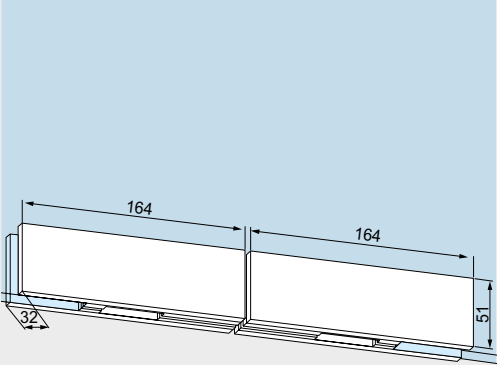
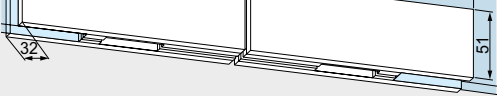
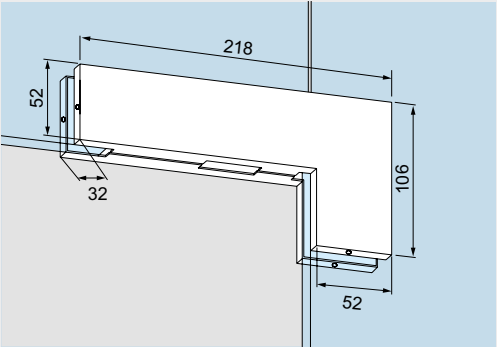
	Product description	Glass thickness	Art. No.
	<b>PT 80 UNIVERSAL Connector,</b> angle 135°		<b>03.172</b>
	Weight in kg: Aluminum 0.472 Stainless steel 0.541		
	<b>Side connector</b> with fixing plate	10, 12 mm	<b>01.153</b>
	Also suitable for 8 mm glass thickness.  Weight in kg: Aluminum 0.313 Stainless steel 0.376		
	<b>Gasket</b>	8 mm	<b>01.900</b> not illustrated
	Please indicate glass thickness and Art. No. of fitting.	12 mm	<b>01.901</b>
	<b>Aluminum round profile</b> for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings or door rails (76.5 mm or 100 mm).		<b>03.380</b>
	Please indicate: <ul style="list-style-type: none"> <li>Panel height (max. 2,500 mm, higher dimension on request)</li> <li>Required preparation of the profile for top and bottom fittings</li> </ul>		
	<b>Aluminum round profile,</b> as above, stock lenght 6,000 mm (unprepared)		<b>03.381</b>
	<b>Aluminum round profile,</b> as above, stock lenght 3,000 mm (unprepared)		<b>03.382</b>
	<b>Aluminum round profile,</b> as above, stock lenght 2,800 mm (unprepared)		<b>03.383</b>
	Weight in kg/m: Aluminum 4.744		

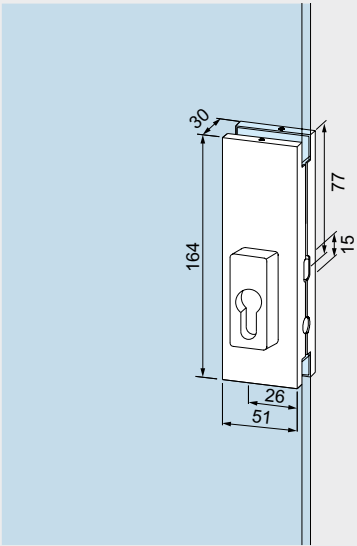
# Locks, complete for 10 mm glass thickness

	Product description	Glass thickness	Art. No.
	<b>US 10 UNIVERSAL corner lock,</b> prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides, 14 mm thick.	10 mm 13, 15, 19 mm	<b>03.206</b> <b>03.285</b>
	Lock insert: <ul style="list-style-type: none"> <li>• high corrosion resistance according to EN 1670, class 4</li> <li>• with regard to type-test according to EN 12209:2003**</li> </ul>		
	<b>With the order please indicate the exact glass thickness!</b>		
	prepared for round cylinder		<b>03.340</b>
	For half profile cylinder Left hand top/ right hand bottom		<b>03.288</b>
	Left hand bottom/right hand top		<b>03.287</b>
	<b>Lock keeper plate, stainless steel,</b> two parts, adjustable ± 5 mm		<b>05.190</b>
	Weight in kg: 0.048		
	Alternative (not illustrated): <b>Floor sockets</b>		<b>05.192</b> <b>05.193</b> <b>05.194</b>
	<b>GK 30 UNIVERSAL Single overpanel</b> strike box with threaded hole at side, to suit US 10 corner lock	13, 15, 19 mm	<b>03.230</b> <b>03.295</b> not illustrated
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg: Aluminum 0.418 Brass 0.555 Stainless steel 0.536		
	<b>GK 30 UNIVERSAL with stop</b>		<b>*03.234/03.235</b> not illustrated
	Weight in kg: Aluminum 0.463 Stainless steel 0.597		

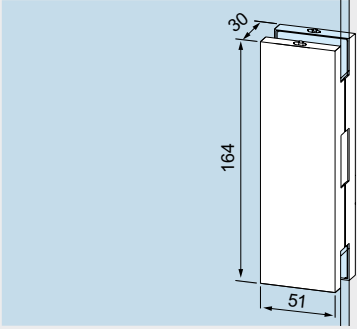
\* Left or right hand are determined by view from outside.

\*\* Successful type testing according to EN 12209:2003 to 200,000 movement cycles.

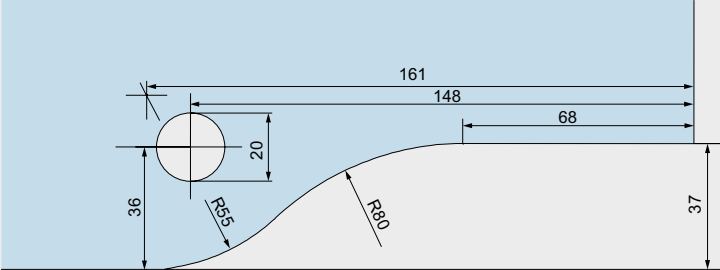
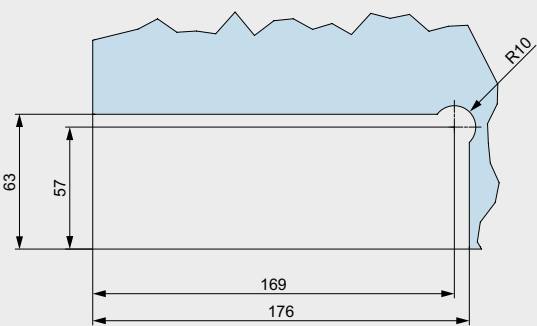
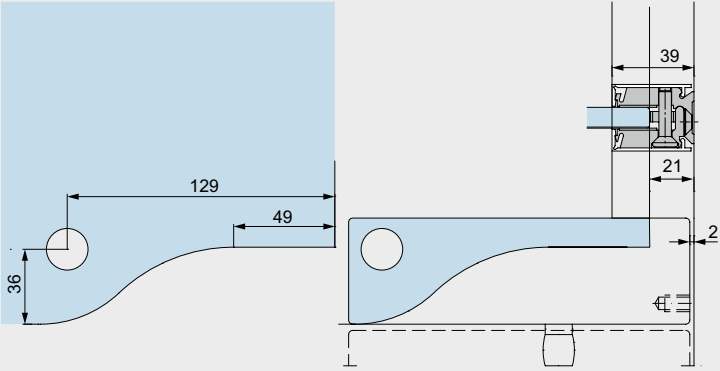
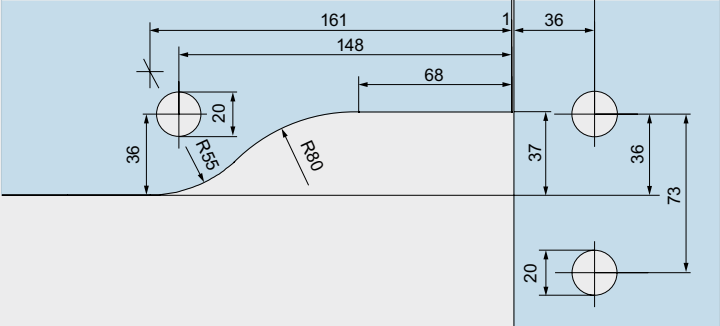
	Product description	Glass thickness	Art. No.
	<b>GK 20 UNIVERSAL</b> <b>Double overpanel</b> strike box to suit US 10 corner lock, consisting of two GK 30 with threaded connecting bolt		<b>03.245</b>
	<b>Weight in kg:</b> Aluminum 0.844 Brass 1.096 Stainless steel 0.948		
	<b>GK 20 UNIVERSAL with stop</b>		<b>03.247</b> not illustrated
	<b>Weight in kg:</b> Aluminum 1.490 Brass 4.465  <b>Weight in kg:</b> Aluminum 0.709 Brass 1.035 Stainless steel 1.010		
	Can be used for glass thickness of up to max. 12 mm. If you wish to use thicker glasses, please get in touch with our Application Engineering department beforehand.		
	<b>GK 40 UNIVERSAL</b> <b>Corner overpanel strike box</b> to suit US 10 corner lock		<b>03.250</b>
	<b>GK 40 UNIVERSAL with stop</b>		<b>*03.254/03.255</b> not illustrated
	<b>Weight in kg:</b> Aluminum 0.754 Brass 1.035 Stainless steel 1.010		
	* Order of Art. No.: left hand fin / right hand fin – determined by view from outside. (Illustration shows left hand)		

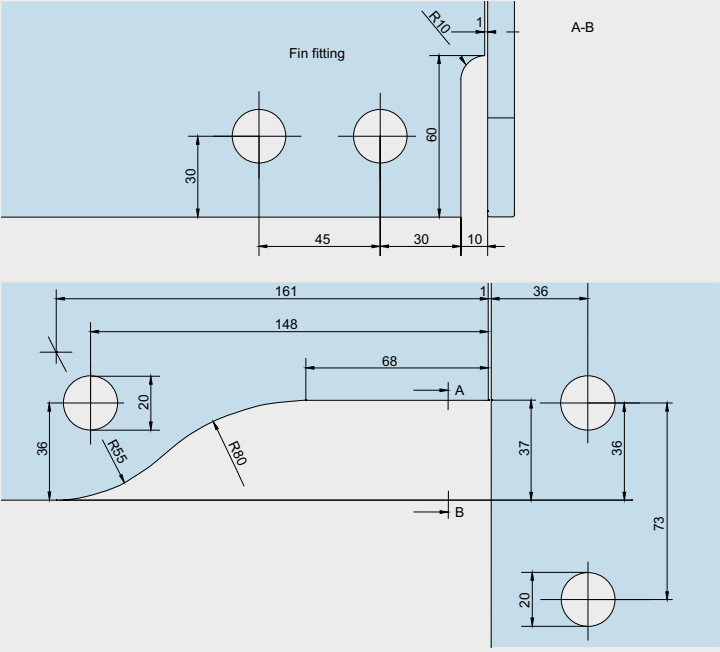
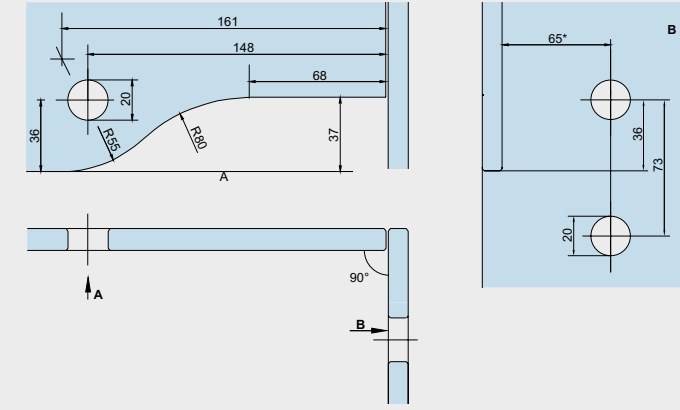
	Product description	Glass thickness	Art. No.
	<b>US 20 UNIVERSAL</b> <b>Centre lock,</b> prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes 14 mm thick.	10 mm	<b>03.215</b>
	Lock insert: <ul style="list-style-type: none"><li>• high corrosion resistance according to EN 1670, class 4</li><li>• with regard to type-test according to EN 12209:2003**</li></ul>		
	<b>With the order please indicate the exact glass thickness!</b>	13, 15, 19 mm	<b>03.286</b> not illustrated
	Prepared for round cylinder		<b>03.345</b>
	Prepared for half profile cylinder		<b>*03.290/03.289</b>
Weight in kg:			
Aluminum		0.942	
Brass		1.061	
Stainless steel		1.053	

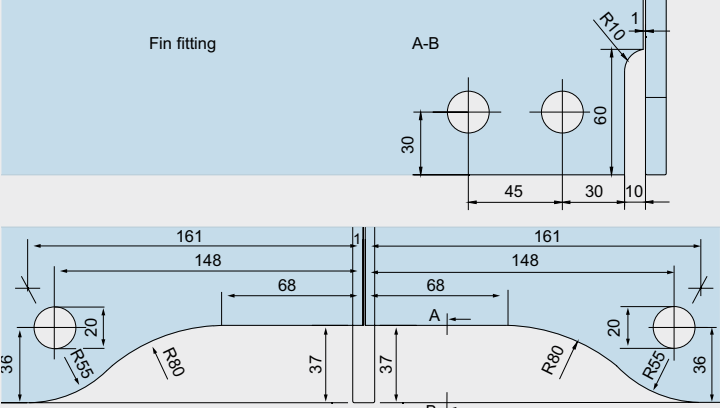
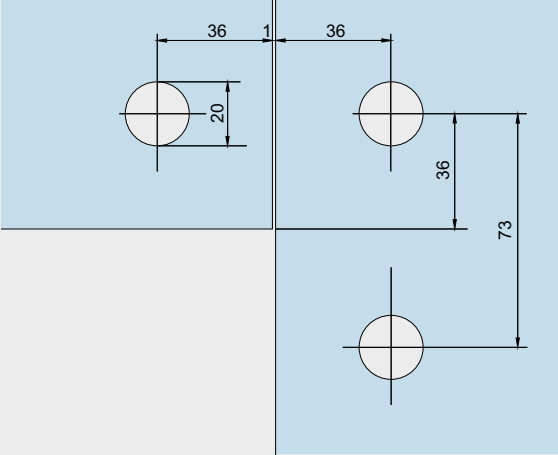
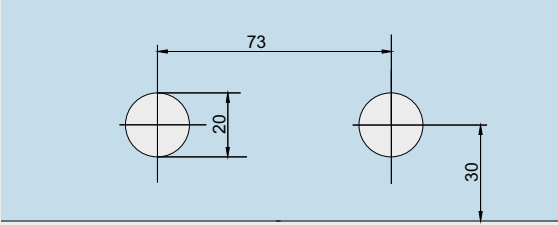
\* Left or right hand are determined by view from outside. (illustration shows left hand)  
\*\* Successful type testing according to EN 12209:2003 to 200,000 movement cycles.

	Product description	Glass thickness	Art. No.
	<b>GK 50 UNIVERSAL</b> <b>Strike box</b> to suit US 20 centre lock	10 mm	<b>03.224</b>
	<b>With the order please indicate the exact glass thickness!</b>	13, 15, 19 mm	<b>03.296</b>
	Weight in kg: Aluminum 0.602 Brass 0.730 Stainless steel 0.727		

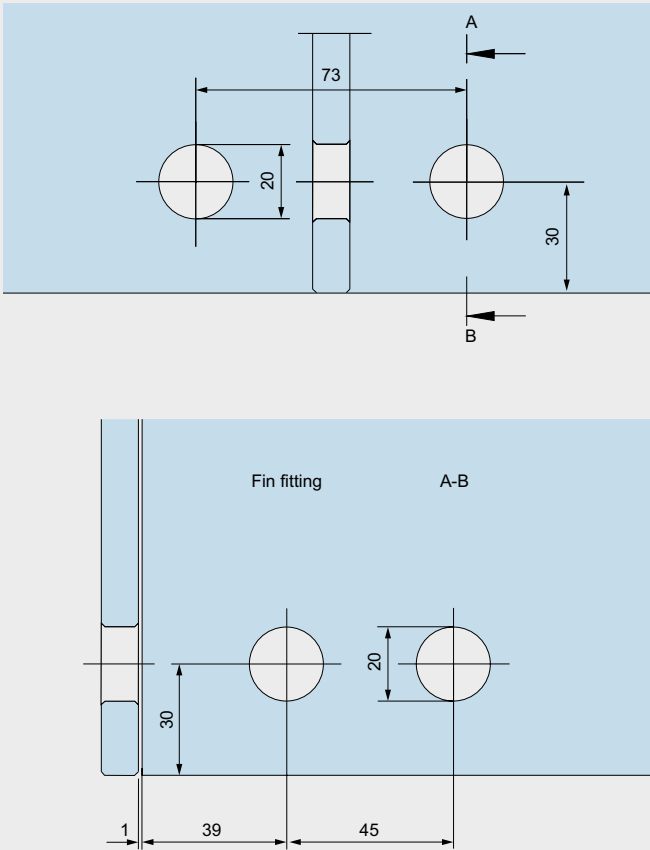
# Glass preparation fittings

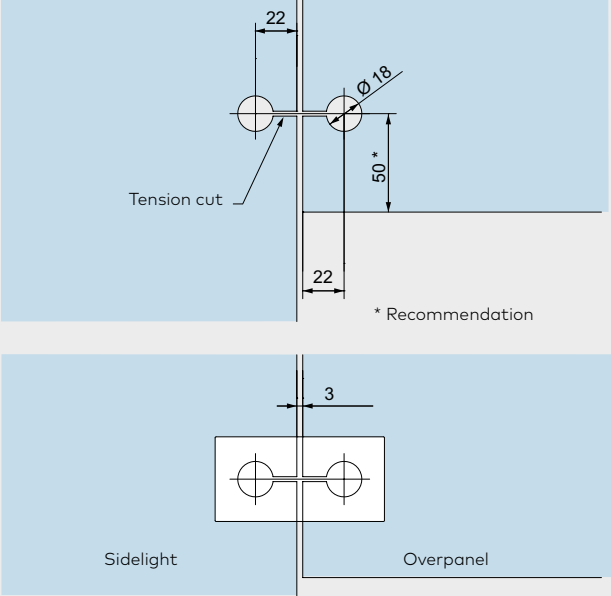
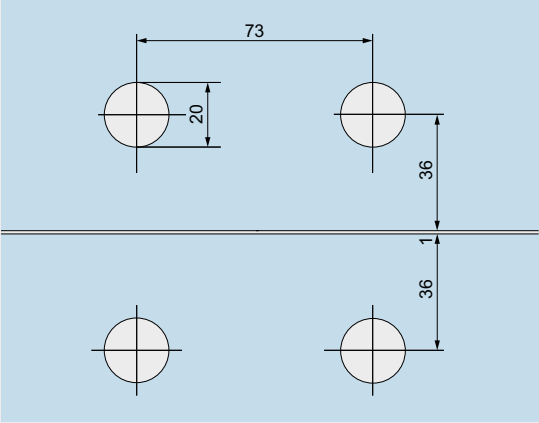
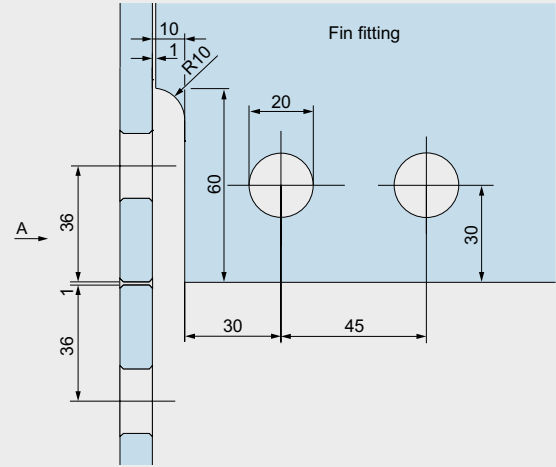
	Product description	Art. No.
	<b>PT 10, PT 20, PT 22, PT 29, PT 30</b>	<b>03.100</b>
	Top and bottom patches,	<b>03.110</b>
	overpanel patch	<b>03.114</b>
		<b>03.120</b>
	<b>Scale 1 : 2</b>	<b>03.212</b>
		<b>03.280</b>
		<b>03.281</b>
		<b>03.282</b>
		<b>03.420</b>
		<b>03.421</b>
	<b>Glass preparation</b>	
	<b>UNIVERSAL Motion</b>	
	<b>PT 30</b>	
	Installation PT 30 with wall connection profile	
	<b>PT 40</b>	<b>03.140</b>
	Patch for overpanel and sidelight	<b>03.283</b>
		<b>03.440</b>
	<b>Scale 1 : 2</b>	<b>03.441</b>

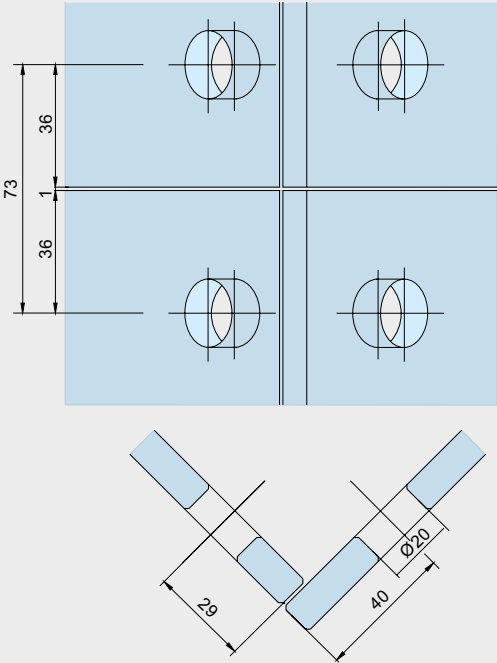
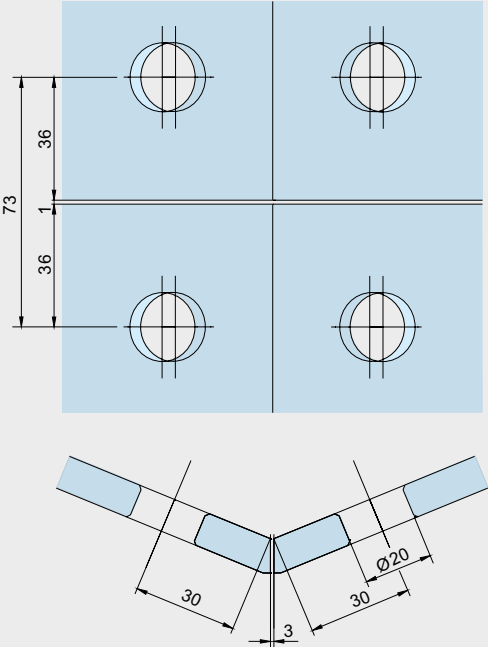
	Product description	Art. No.
	<b>PT 41</b> Patch for overpanel and sidelight with fin fitting inside	<b>03.162</b> <b>03.163</b>
	<b>Scale 1 : 2</b>	
	<b>PT 42, GK 42</b> Angled connector 90°	<b>03.164</b> <b>03.165</b>
	<b>Scale 1 : 2</b>	

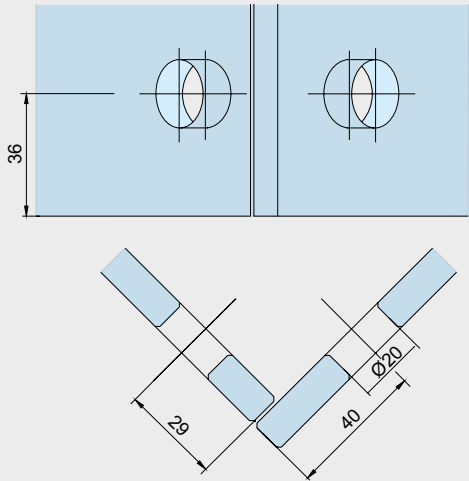
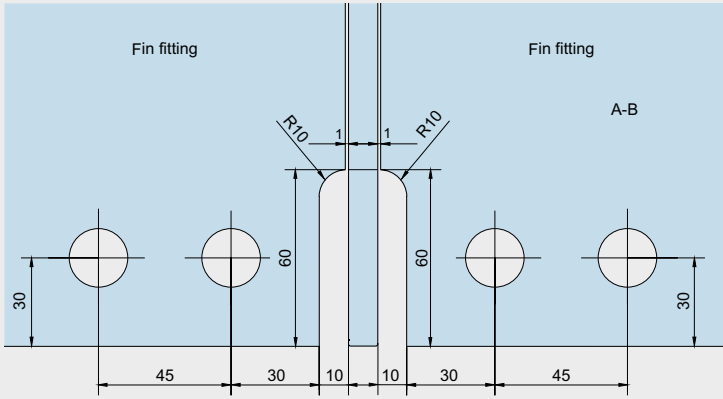
	Product description	Art. No.
	<p><b>PT 51</b> Overpanel fin fitting for back to back doors</p> <p><b>Scale 1 : 2.5</b></p>	<p><b>03.160</b></p>
	<p><b>PT 60/61, PT 62</b> <b>Winkelverbindung</b> Connectors for overpanels and sidelights</p> <p><b>Scale 1 : 2</b></p> <p>Glass preparation for fin fitting both sides see PT 81</p>	<p><b>03.150</b></p> <p><b>03.173</b></p> <p><b>03.452</b></p>
	<p><b>PT 70</b> Overpanel connector</p> <p><b>Scale 1 : 2</b></p>	<p><b>01.150</b></p> <p><b>01.158</b></p>

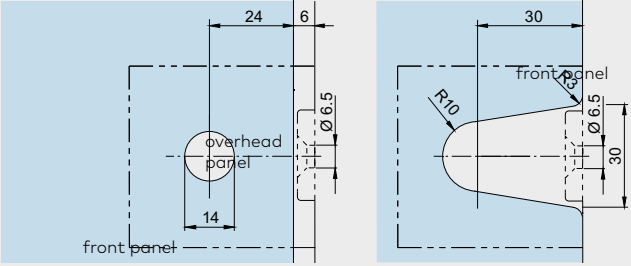
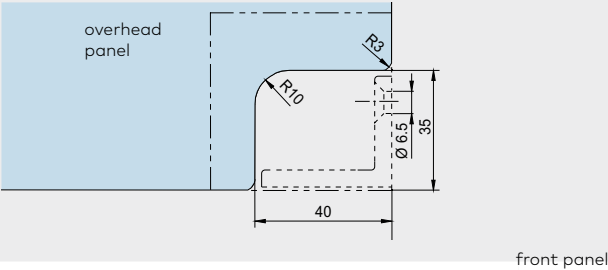
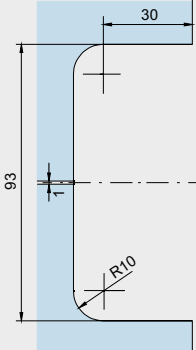


	Product description	Art. No.
	<p><b>PT 71</b> Overpanel connector with fin fitting</p> <p><b>Scale 1 : 2</b></p>	<p><b>01.161</b></p>

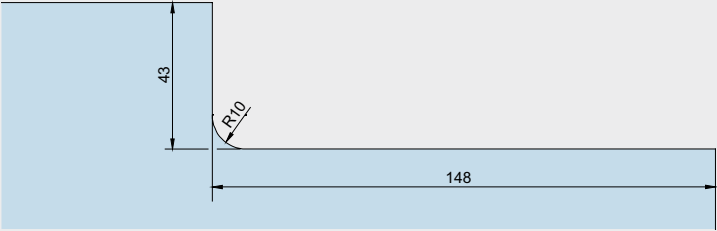
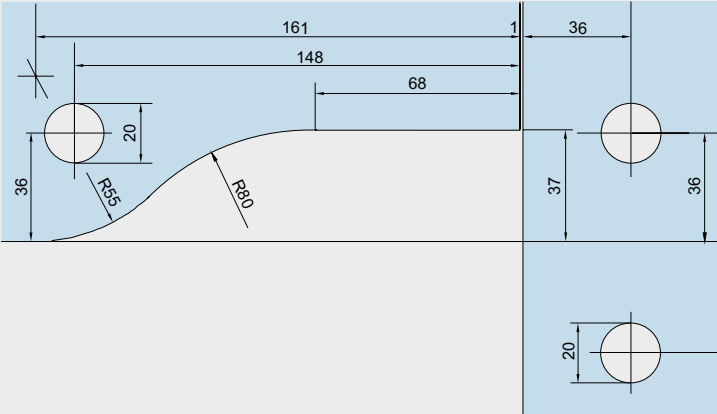
	Product description	Art. No.
	<b>Overpanel-sidelight connector</b>  Weight in kg: Aluminum 0.146	<b>12.536</b>
	<b>PT 80</b> Connector  <b>Scale 1 : 2</b>	<b>03.170</b> <b>03.472</b>
	<b>PT 81</b> Connector with fin fitting  <b>Scale 1 : 2</b>	<b>03.175</b>

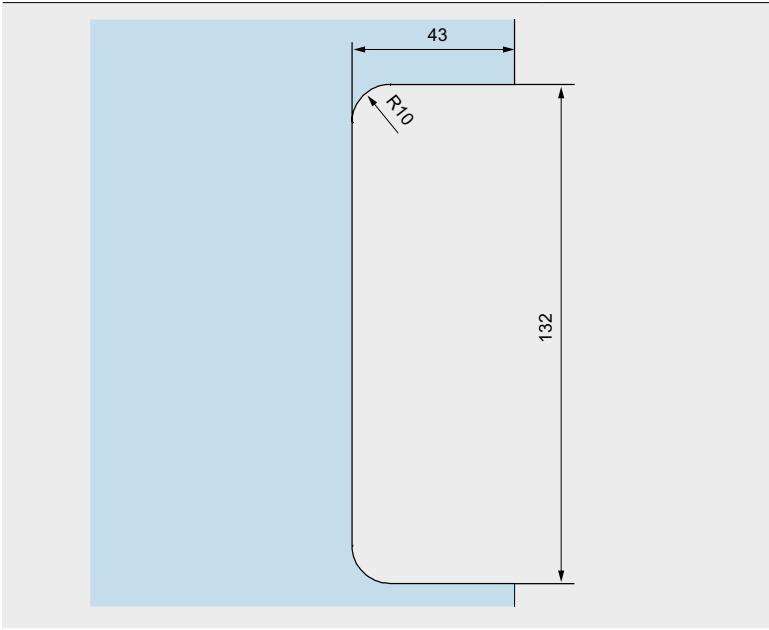
	Product description	Art. No.
	<p><b>PT 80</b> Angled connector, 90°</p> <p><b>Scale 1 : 2</b></p>	<p><b>03.171</b></p>
	<p><b>PT 80</b> Angled connector, 135°</p> <p><b>Scale 1 : 2</b></p>	<p><b>03.172</b></p>

	Product description	Art. No.
	<b>PT 80 shortened</b> Angled connector, 90° shortened  <b>Scale 1 : 2</b>	<b>03.470</b>
	<b>PT 41, GK 41</b> Patch for overpanel and sidelight with fin fitting on both sides  <b>Scale 1 : 2</b>	<b>03.161</b>

	Product description	Art. No.
	<b>PT 90</b> Screw on fitting  <b>Scale 1 : 2</b>	<b>07.021</b>
	<b>PT 91</b> Corner fitting  <b>Scale 1 : 2</b>	<b>07.023</b>
	<b>Sidelight connector</b> with fixing plate  <b>Scale 1 : 2</b>	<b>01.153</b>

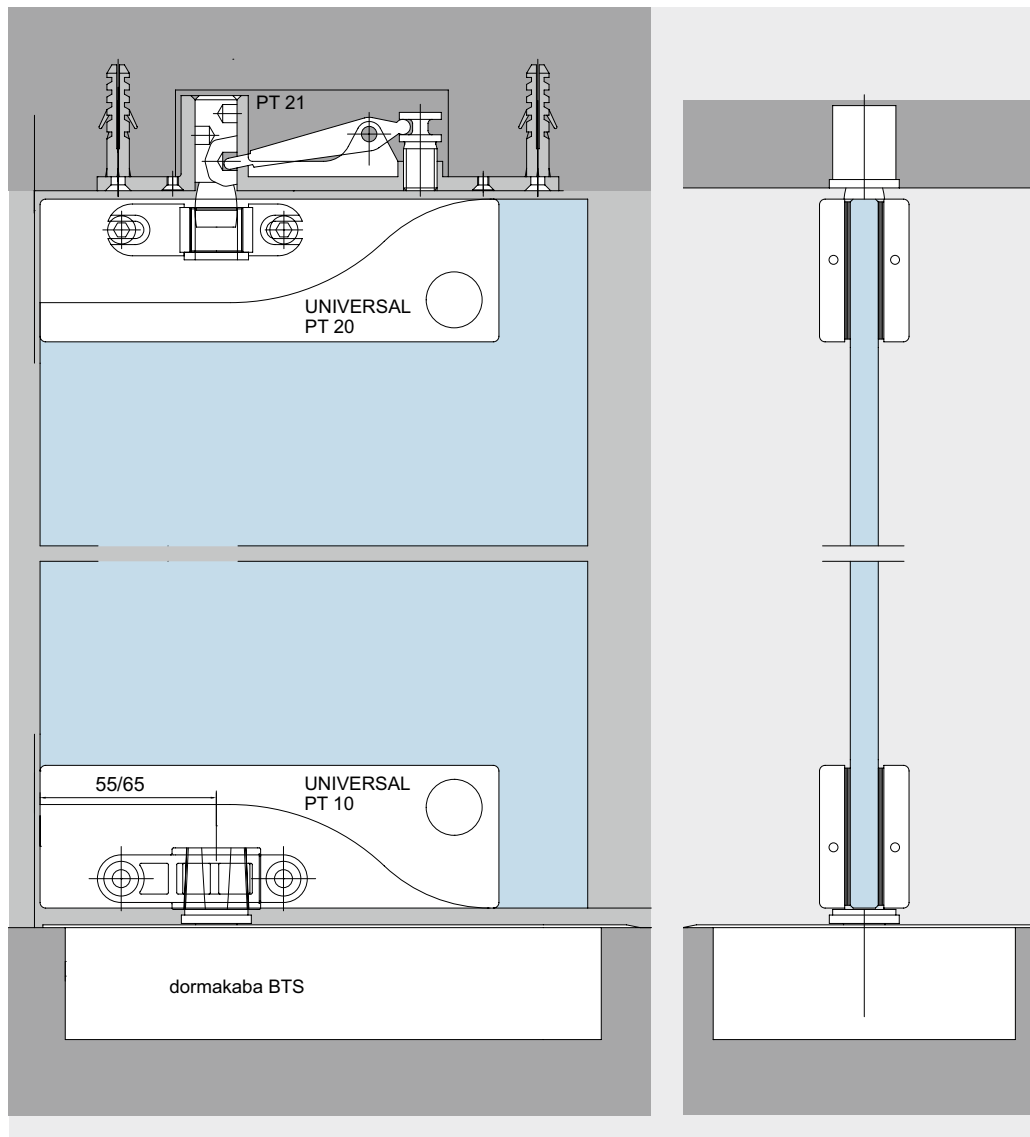
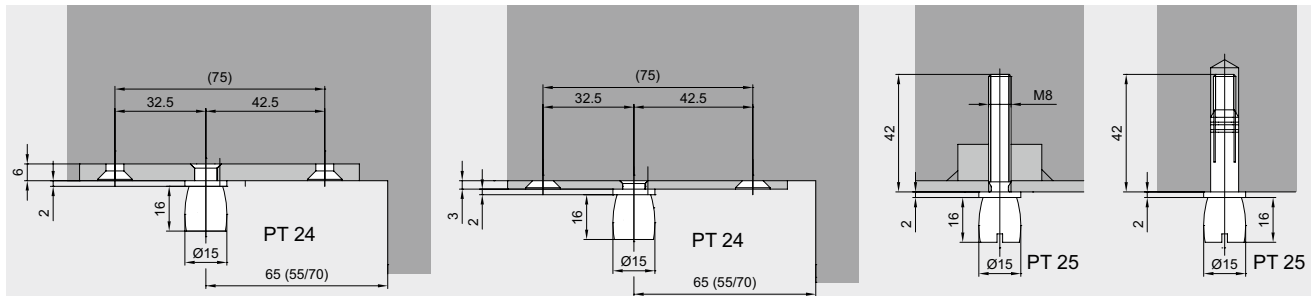
# Glass preparation locks

	Product description	Art. No.
	<b>US 10</b> Corner locks	<b>03.206</b> <b>03.285</b> <b>03.287</b> <b>03.288</b> <b>03.340</b>
	<b>Scale 1 : 2</b>	
	<b>GK 30 (PT 30)</b> Single overpanel strike box	<b>03.230</b> <b>03.234</b> <b>03.235</b>
	<b>Scale 1 : 2</b>	
	<b>GK 20</b> Double overpanel strike box	<b>03.245</b> <b>03.247</b>
	<b>Scale 1 : 2</b>	
	<b>GK 40 (PT 40)</b> Corner overpanel strike box	<b>03.250</b>
	<b>Scale 1 : 2</b>	

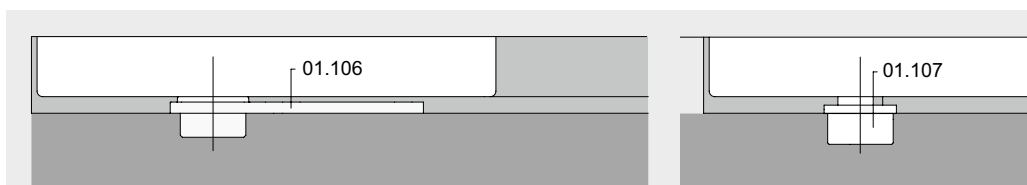
	Product description	Art. No.
	<b>US 20. GK 50</b>	<b>03.215</b>
	Centre lock	<b>03.345</b>
		<b>03.289</b>
		<b>03.290</b>
	and strike box to suit centre locks	<b>03.224</b>
	<b>Scale 1 : 2</b>	

# Installation details

**Advisory:** Please note that the upper pivots for UNIVERSAL and those for MUNDUS are not mutually compatible. The spigot diameters of the MUNDUS fittings vary..



Fixing of top pivots and top centres for PT 20.



Fixing of floor springs, pivot bearings for PT 10.



## Space for your notes

# Content

## RP

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204	<b>Accessories</b>
226	<b>Safety-related information</b>



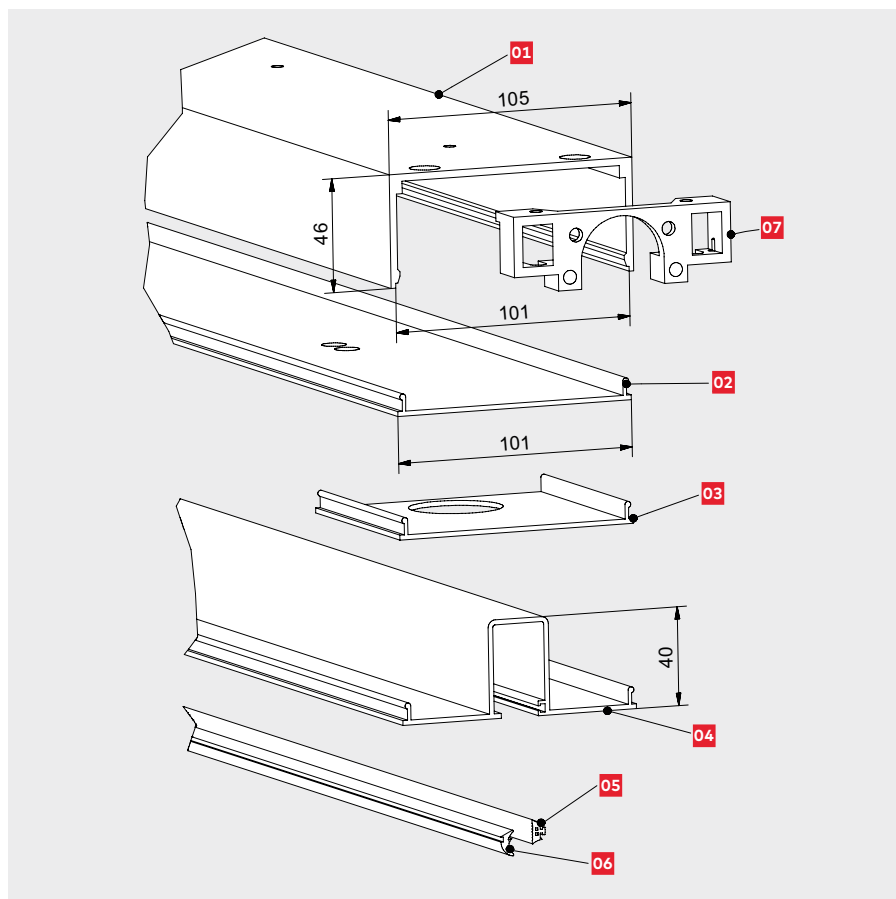
**RP**

# Marvellously concealed transom door closer

The RP pivot door system works with a tubular transom profile in which the RTS transom closer is integrated and concealed. The system is fixed on the ceiling using brackets which are concealed after system installation. A top patch fitting (UNIVERSAL PT 22) attaches the all-glass door to the closer. A bottom patch fitting (UNIVERSAL PT 10) connects the door to the floor pivot, which measures only a few centimetres. So glass thicknesses of 8 – 12 mm are feasible.

The UNIVERSAL patch fittings can be replaced by door rails top and bottom or MUNDUS patch fittings as a special option. When using MUNDUS Premium patch fittings, you also have the option of installing laminated safety glass (LSG).

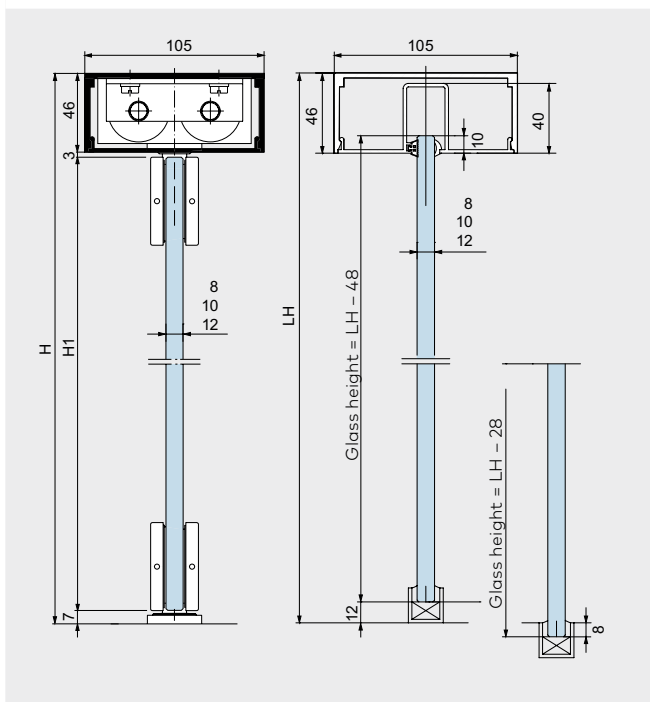
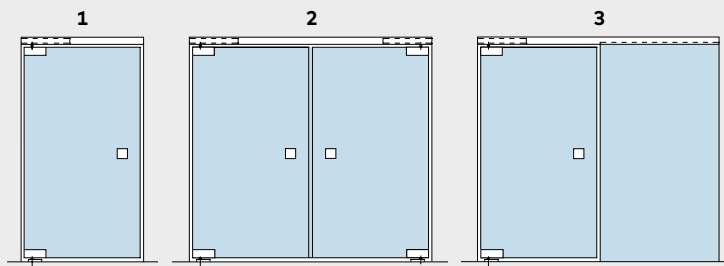
The RTS transom closer not only returns the door to the zero position each time it is opened, it also has a special dampening system to protect the door against unwanted impact caused by over-aggressive opening. In addition, the integral hold-open, which also comes as standard, enables the door to be held open at an angle of 90°.



## Transom tube configuration:

- 01**  
Transom tube for fixing on ceiling, as lintel or similar, max. length 6,000 mm
- 02**  
Cover profile for door, clip-on, max. length 6,000 mm
- 03**  
Cover profile for fixed sidelights, clip-on type with glass groove
- 04**  
Cover profile for fixed sidelights, clip-on, with glazing groove
- 05 / 06**  
Contact profile / glass wedge profile, depending on combination for 8, 10 or 12 mm glass thicknesses of the sidelight
- 07**  
Fixing bracket for securing transom tube and closer

# Type selection



## Options

- 1 Single leaf double-action door with transom tube
- 2 Pair of double-action doors with transom tube
- 3 Double-action door with through-running transom tube and fixed sidelight

Further versions up to 6,000 mm are possible.

## Materials and finishes

- Aluminum, silver EV1 anodized (similar Eloxal I EV1 / Eloxal II C 0) (101)
- Aluminum, similar satin stainless steel anodized (for profile material) (similar Eloxal II C 31) (113)
- Aluminum, traffic white powder coated (300)
- Aluminum special color anodized (199)
- Aluminum, special color powder coated (399)

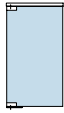
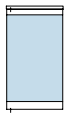
## Door panel dimensions

- Glass thicknesses: 8 / 10 / 12 mm
- Door height H1: H – 56 mm
- For max. door panel weights and widths please see the table below.

## Sidelight dimensions

- Glass thickness: 8 / 10 / 12 mm with two-part sealing profile
- Sidelight height: H – 28 mm + floor pocket, where required

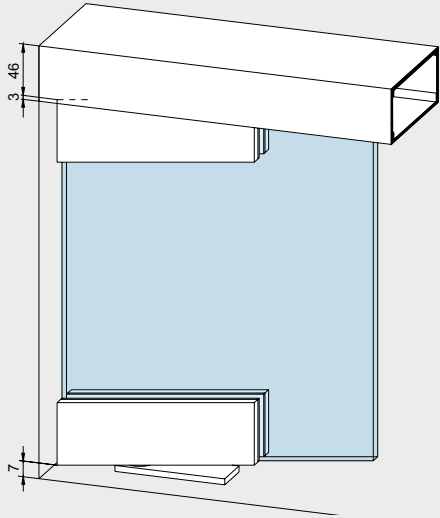
## Also with door rails available

max. height	max. width	max. door weight (incl. fittings)	RTS version	
2,500	800–1,100	80 kg	RTS EN 3	
3,500	max. 1,250	110 kg	RTS EN 4	

with door rails top and bottom see detail sheets 04-030 and 04-060

If you have any questions regarding special designs with door rails or MUNDUS patch fittings, our Application Engineering department will be glad to advise you.

# Double-action system for glass doors

	Product description	Art. No.
	<p><b>Double-action system for glass doors</b>          complete, for door width up to 1,000 mm,          consisting of          1 transom tube;          1 cover profile;          1 RTS 85 transom closer; EN3, hold open 90°          (For door widths less than 800 mm, door          closers of spring strength EN 2 may also be          used. Please indicate requirement when          ordering.)          1 fixing bracket;          1 bottom patch fitting PT 10;          1 top patch fitting PT 22;          1 floor pivot bearing</p> <p>Weight in kg: 8.083</p> <p>When ordering, please indicate the precise          system dimensions or attach a corresponding          drawing.</p>	<p><b>01.300</b></p>

	Product description	Art. No.
	<p><b>01</b> <b>Transom tube</b> for fixing at ceiling, as lintel, or similar,</p> <p>stock length 6,000 mm in fixed lengths</p> <p>Weight in kg/m: Aluminum 1.620</p>	<p><b>01.301</b> <b>01.311</b></p>
	<p><b>02</b> <b>Cover profile</b> for door area, clip-on</p> <p>stock length 6,000 mm in fixed lengths</p> <p>Weight in kg/m: Aluminum 0.610</p>	<p><b>01.302</b> <b>01.305</b></p>
	<p><b>03</b> <b>Cover plate</b> with cut-out for door closer spindle</p> <p>length 90 mm</p> <p>Weight in kg: Aluminum 0.056</p>	<p><b>01.303</b></p>
	<p><b>04</b> <b>Cover profile with glass groove</b> to clip on Art.No. 01.301 / 311, to hold fixed sidelights inclusive</p>	
	<p><b>05 / 06</b> <b>Contact profile or glass wedge profile</b> in 2 resp. 4 mm thicknesses, depending on combination for 8, 10 or 12 mm glass thickness of the sidelight</p> <p>stock length 6,000 mm in fixed lengths</p> <p>Weight in kg: Aluminum 0.810</p>	<p><b>01.304</b> <b>01.314</b></p>
	<p><b>07</b> <b>Fixing bracket</b> for securing transom tube and closer</p> <p>Weight in kg: Aluminum 0.080</p>	<p><b>01.306</b></p>

# Content

## BEYOND

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**BEYOND**

## Systematic design

Safe, functional and extremely attractive, BEYOND, the unique system for glass doors without risk of pinched fingers with swing doors.

The development of BEYOND has been shaped by the search for a solution that combines a modern, attractive design with maximum safety and stability. In the swing-door system the pivot point is located directly at the glass edge, thus preventing the risk of trapped fingers often found at the secondary closing edges of glass swing.

BEYOND opens up a huge range of opportunities for incorporating frameless glass doors into toughened glass assemblies and wall openings. The BEYOND system offers an elegant, sophisticated solution for swing doors in all situations, whether private or public, modern or traditional.

Developed with the practical requirements of the market in mind, this product offers a sensible alternative wherever security, safety and functionality need to be complemented with an attractive design.



## Safe and secure

The patented BEYOND swing door system with its pivot point located centrally in the glass axis and close to the glass edge ensures safety and security. The alternative options of elegant, continuous pivot rod or smart short rod make the system suitable for any room situation. And with a choice of pull handles or lock/lever handle combinations, BEYOND enables the realisation of your design ideas.



The over panel pivot fitting  
– a slim connector.



An option for the bottom pivot point – short rod on a floor pivot.

If floor pivot bearings are being used, a separate lock or a tumbler is required.

## Short pivot rod

The BEYOND swing door system with short pivot rod offers maximum flexibility. No matter what the door dimensions, BEYOND short fittings provide a versatile solution.

DORMA-Glas floor pivots, or – particularly for double-action doors – dormakaba BTS floor springs, form the ideal base for ensuring that the door always returns safely and securely to its home position. Since with the BTS floor spring the position of the pivot point requires it to be buried under the adjacent wall, the use of a glass side panel is recommended in this case. The top connection depends on the type of unit. When incorporating the glass door into a toughened glass assembly, the top connection is formed by an over panel pivot fitting; in the case of doors in wall openings, a top pivot bearing is fitted to the ceiling or in the lintel.

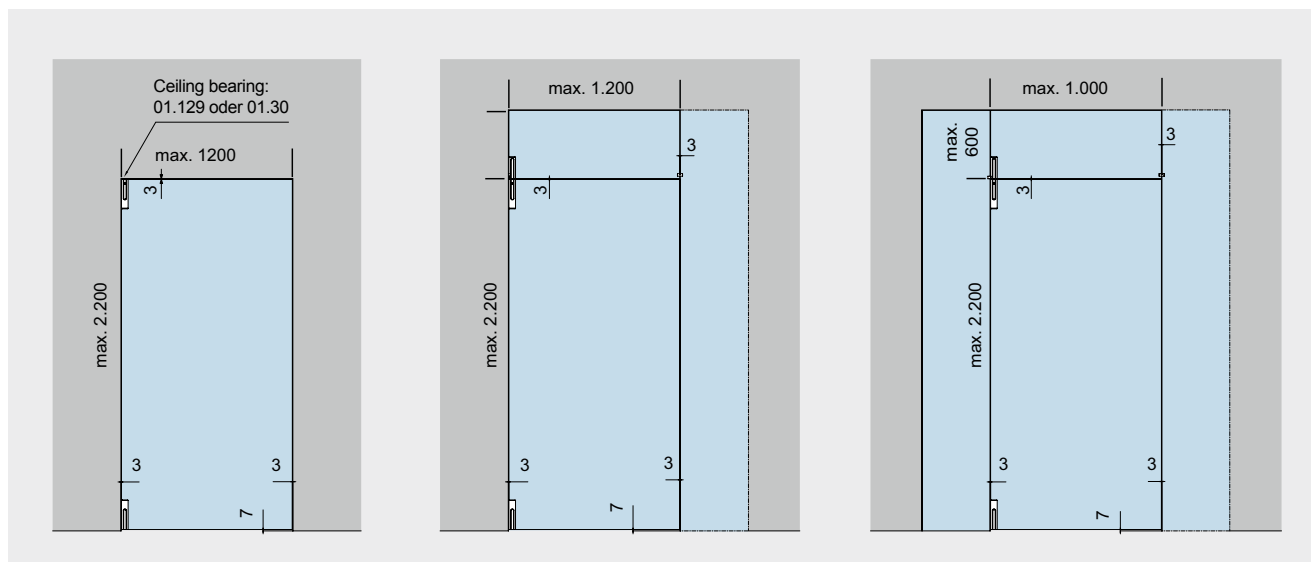
Load transfer from the overpanel and side panel can be effected by means of wall adapter profiles.

Depending on customer requirements, BEYOND offers suitable fittings for 10 mm and 12 mm glass. Finishes for fittings and accessories: aluminum EV1-Deco anodized (114) or similar satin stainless steel anodized (107).

For maximum values please see the typical assemblies.

### Note:

Overpanel fitting wall connector  
max. 1,200 mm door width;  
overpanel fitting glass connector  
max. 1,000 mm door width.



#### Basic set for individual door.

For installation in masonry.  
Optionally with side panel on closing side.

Max door height 2,200 mm  
Max door weight 80 kg

#### Basic set and over panel fitting wall connector for door with over panel.

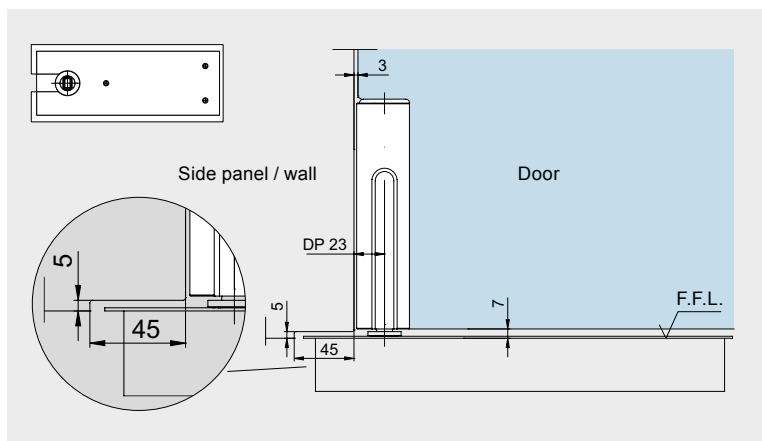
Optionally with side panel on closing side.

Max door height 2,200 mm  
Max door weight 80 kg

#### Basic set and over panel fitting wall connector for door with over panel and side panel on pivot point side.

Optionally with side panel on closing side.

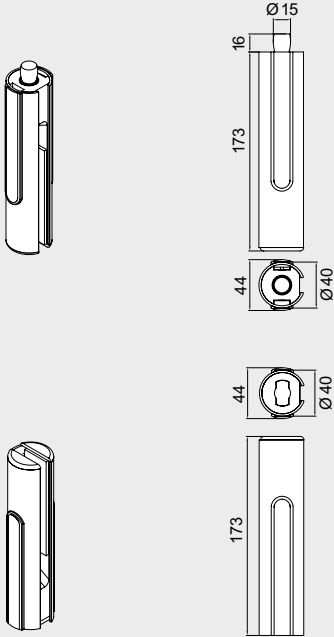
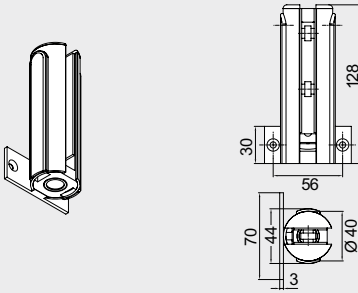
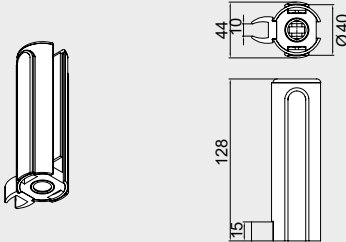
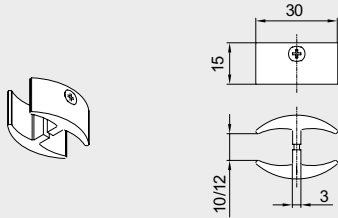
Max door height 2,200 mm  
Max door weight 80 kg



#### Combination BEYOND and dormakaba BTS

(door closer available from Door Control Division)  
With the dormakaba BTS floor spring, the position of the pivot point means that the unit has to be buried under the adjacent wall, or that the glass side screen has to be appropriately machined (see adjacent detail). The height of the recess cut into the glass will need to be adapted to the installation situation and the means by which the side screen is fixed.

# Fittings and glass connector

	Product description	Glass thickness	Art. No.
	<b>BEYOND basic set:</b> <b>Pivoting fitting set, short type,</b> comprising <ul style="list-style-type: none"> <li>• 1 top pivot fitting with pivot Ø 15 mm,</li> <li>• 1 bottom pivot fitting with insert for floor spring spindle (90° turnable, e. g. dormakaba BTS 80) or round pivot</li> </ul>	10 mm	<b>30.100</b>
		12 mm	<b>30.101</b>
	<b>BEYOND overpanel fitting,</b> <b>wall connector,</b> with plastic socket for top pivot	10 mm	<b>30.120</b>
		12 mm	<b>30.121</b>
	<b>BEYOND overpanel fitting,</b> <b>glass connector,</b> with plastic socket for top pivot	10 mm	<b>30.130</b>
		12 mm	<b>30.131</b>
	<b>BEYOND glass connector,</b> plastic, black, for connection of side panel at closing side	10 mm and 12 mm	<b>30.320</b>

# Continuous pivot rod

The BEYOND swing door system with continuous rod offers complete freedom from the risk of trapped fingers. By locating the pivot point of the swing door right at the glass edge and providing a round profile, the nip hazard is reduced to zero.

For the floor mounting of single-action, and particularly double-action doors, the dormakaba BTS floor spring offers a convenient alternative to the DORMA-Glas floor pivot. Since with the BTS floor spring the position of the pivot point requires it to be buried under the adjacent wall, the use of a glass side panel is recommended in this case. As with the short-rod model, the top connection depends on the type of unit. Toughened glass assemblies are fitted with an over panel pivot fitting, whereas with doors in wall openings a top pivot bearing with ceiling fixing is used. Load transfer from the over panel and side panel can be effected by means of wall adapter profiles.

In the case of heights over 2,200 mm, an anti-vibration device located midway along the pivot rod ensures quiet door operation.

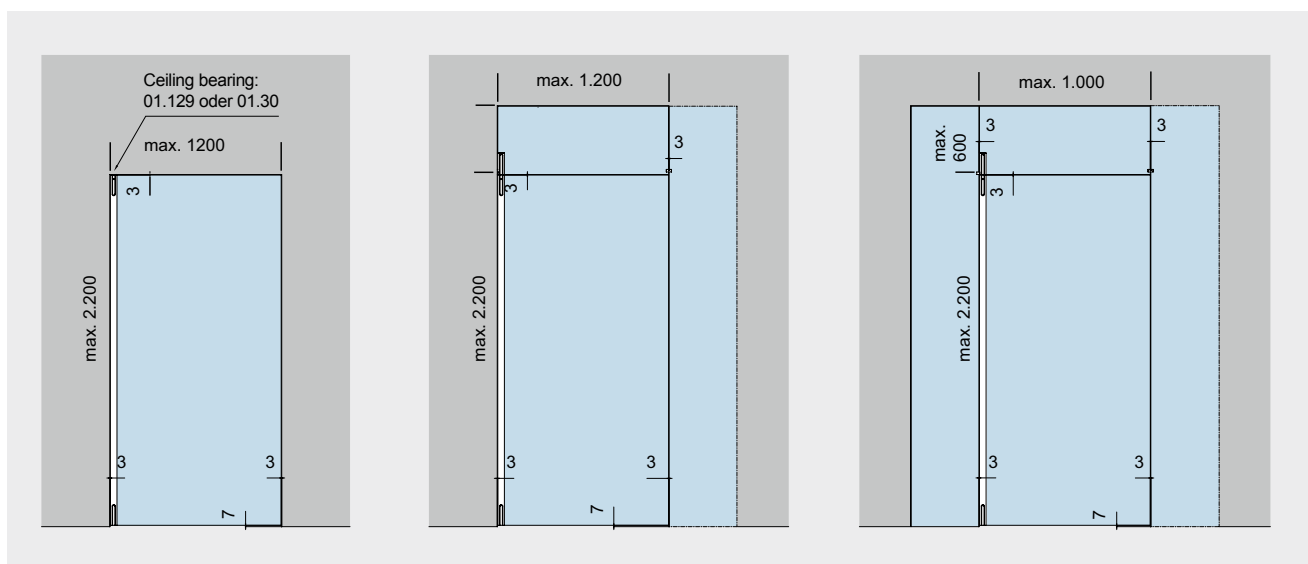
Depending on customer requirements, BEYOND offers suitable fittings for 10 mm and 12 mm glass.

Finishes for fittings and accessories: aluminum EV1-Deco anodized (compatible with finish 150) (114) or similar satin stainless steel anodized (107).

For maximum values please see the typical assemblies.

## Note:

Overpanel fitting wall connector  
max. 1,200 mm door width;  
overpanel fitting glass connector  
max. 1,000 mm door width.



### Basic fitting for individual door.

For installation in masonry.

Max door height 2,200 mm  
Max. door weight 80 kg

### Basic fitting and over panel fitting wall connector for door with over panel.

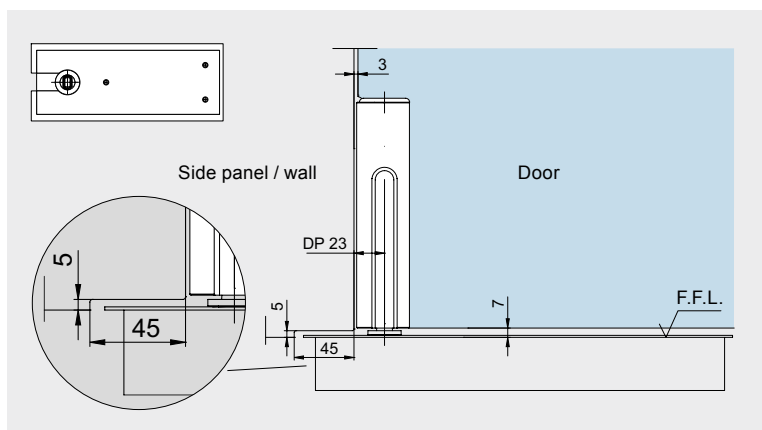
Optionally with side panel on closing side.

Max door height 2,200 mm  
Max. door weight 80 kg

### Basic fitting and over panel fitting wall connector for door with over panel and side panel on pivot point side.

Optionally with side panel on closing side.

Max door height 2,200 mm  
Max. door weight 80 kg

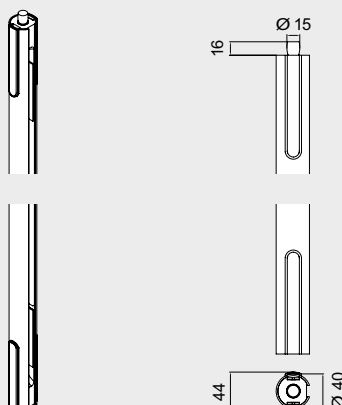
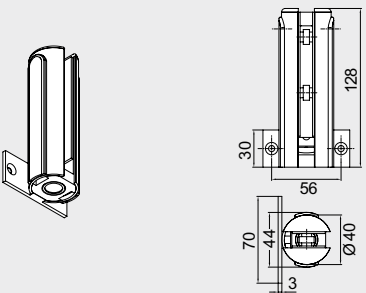
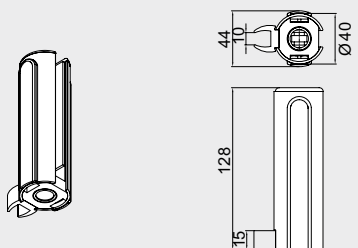
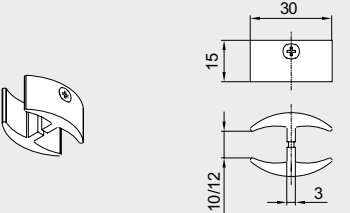
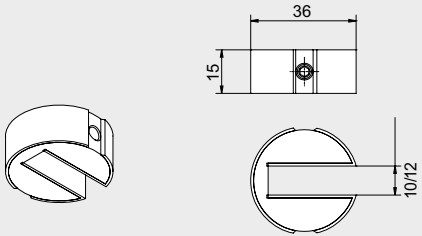


### Combination BEYOND and dormakaba BTS

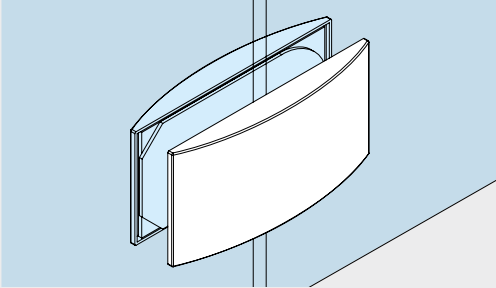
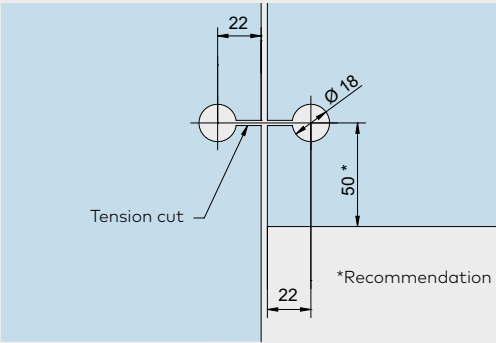
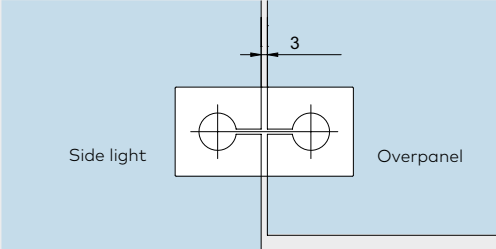
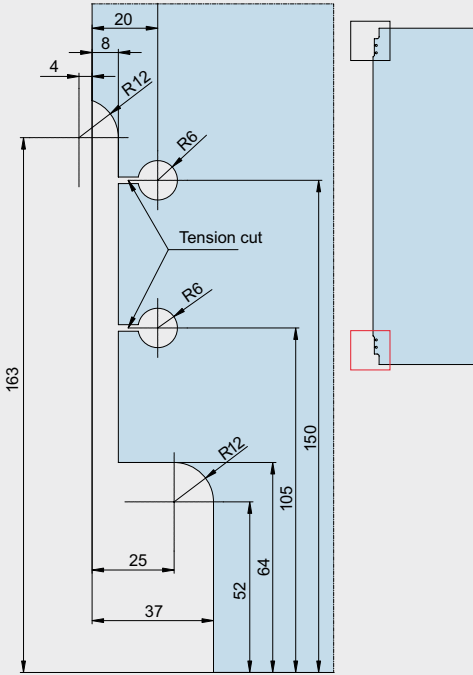
(door closer available from Door Control Division)  
With the dormakaba BTS floor spring, the position of the pivot point means that the unit has to be buried under the adjacent wall, or that the glass side screen has to be appropriately machined (see adjacent detail). The height of the recess cut into the glass will need to be adapted to the installation situation and the means by which the side screen is fixed.



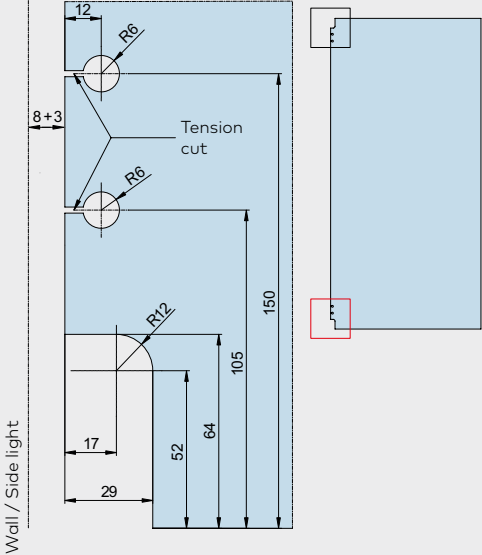
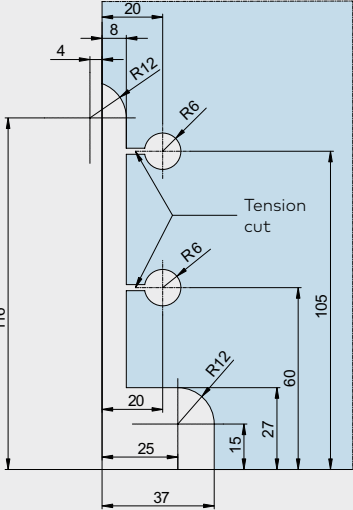
# Fittings and glass connector

	Product description	Glass thickness	Art. No.
	<b>BEYOND basic fitting:</b> <b>Pivoting fitting, long type,</b> with pivot Ø 15 mm at top and insert for floor spring spindle (90° turnable, e. g. dormakaba BTS 80) or round pivot at bottom  Please indicate exact door height = glass measurement with order.	10 mm	<b>30.110</b>
		12 mm	<b>30.111</b>
	<b>BEYOND overpanel fitting,</b> <b>wall connector,</b> with plastic socket for top pivot	10 mm	<b>30.120</b>
		12 mm	<b>30.121</b>
	<b>BEYOND overpanel fitting,</b> <b>glass connector,</b> with plastic socket for top pivot	10 mm	<b>30.130</b>
		12 mm	<b>30.131</b>
	<b>BEYOND glass connector,</b> plastic, black, for connection of side panel at closing side	10 mm and 12 mm	<b>30.320</b>
	<b>BEYOND</b> <b>anti-vibration device</b> for pivot fitting, long	10 mm	<b>30.034</b>
		12 mm	<b>30.035</b>

# Glass preparation

	Product description	Art. No.
	<b>Overpanel-sidelight connector</b>  Weight in kg: Aluminum 0.146	<b>12.536</b>
		
		
	<b>Pivoting fitting set, short type</b> Drawing shows the bottom glass penetration. Top edge of glass is prepared accordingly.	<b>30.100</b> <b>30.101</b>



	Product description	Art. No.
	<b>Pivoting fitting, long type</b>	<b>30.110</b>
	Drawing shows the bottom glass penetration. Top edge of glass is prepared accordingly.	<b>30.111</b>
	<b>Overpanel fitting</b>	<b>30.120</b>
	Wall connector and	<b>30.121</b>
	glass connector	<b>30.130</b>
		<b>30.131</b>

# Content

## EA

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**EA**

# The expansive range with slimline bodies for offset hung doors

EA patch fittings are characterized by their slim, neat shape and skilful hinge design. This comprehensive range of fittings allows the transparent elegance of single-action doors to reach their full potential – whether hung in frames or integrated in toughened glass assemblies.

## Easy glass preparation secure fixing

DORMA-Glas has an intimate knowledge of the special properties of glass as a building material. This has led to the design of fittings requiring only minimal glass preparation – a quick and easy cut out with additional holes. Carefully considered and positive measures have been taken to create the maximum clamping surface with optimum clamping efficiency.

## Suitable for 10, 12 and 8 mm glass thicknesses

DORMA-Glas EA patch fittings are available for 10 and 12 mm glass thicknesses. With additional gaskets these fittings can also be used for 8 mm glass.

## Reliability built in

Quality materials and thorough workmanship mean that EA patch fittings have the features necessary to meet the most demanding of specifications.

## Matching range of locks

The EA range includes a variety of locks and strike boxes in a matching design concept, giving the designer plenty of choice from the options available.

## Virtually unlimited choice of colours and finishes

EA corner patches are available in the following finishes

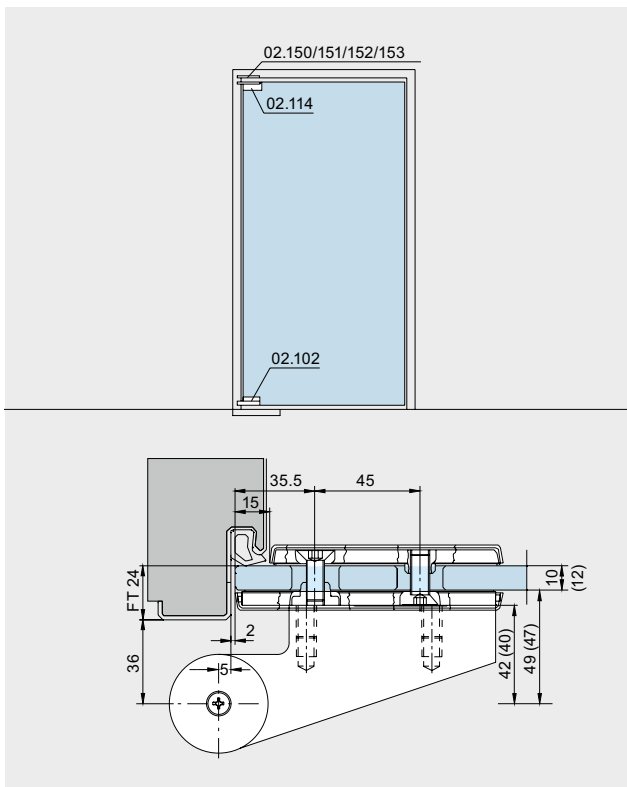
- Aluminum, silver EV1 anodized (similar Eloxal I EV1 / Eloxal II C 0) (101)
- Aluminum, similar satin stainless steel anodized (107)
- Aluminum special color anodized (199)
- Aluminum, special color powder coated (399)

## Short delivery times

All standard articles as per price list are available ex-stock (factory). Specials will be prepared promptly.



# Offset hung doors in rebated frames and toughened glass assemblies



## Offset hung doors in rebated frames

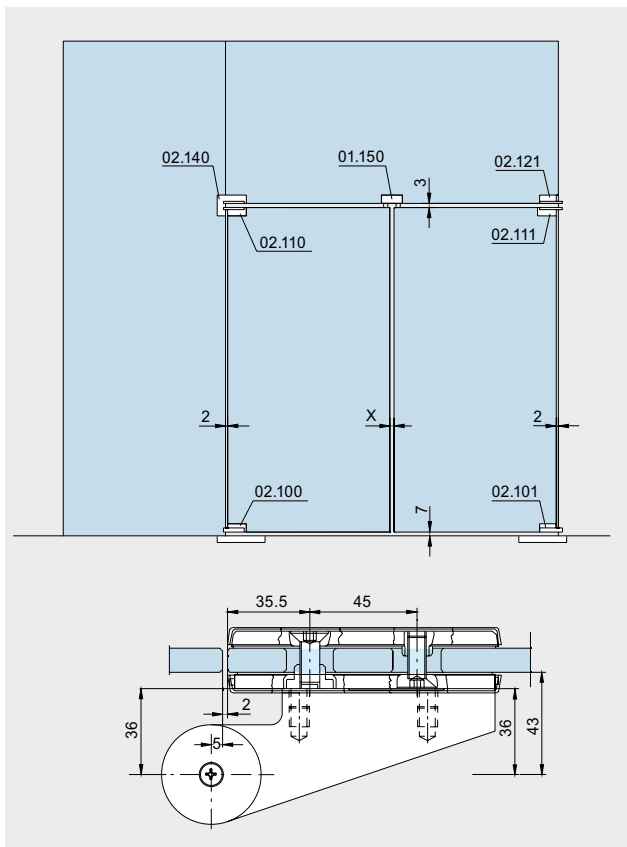
max. door weight: 90 kg  
max. door width: 1,000 mm,  
using a bottom door rail: 1,100 mm

EA patch fittings for offset hung doors in rebated frames are supplied as standard prepared for 24 mm rebate depth. They can be prepared to suit rebate depths from 15 – 23 mm, and from 25 – 40 mm. Please specify rebate depth with order.

max. door weight for 25–40 mm rebate depth: 80 kg  
max. door width for 25–40 mm rebate depth: 900 mm  
For doors with max. weight of 80 kg and max. width of 1,000 mm use door rails.

The top centre frame portions are prepared to suit wood and steel frames. For aluminum frames, please enquire, giving details of aluminum system.

FT = rebate depth



## Offset hung doors in toughened glass assemblies

max. door weight: 100 kg  
max. door width: 1,100 mm

For door weights up to 100 kg and widths up to 1,200 mm, door rails should be used.

EA patch fittings for offset hung doors in toughened glass assemblies have a 36 mm offset (= 43 mm from pivot point to glass surface).

### Gap required between leaves on pairs of doors

Individual leaf width in mm	X = gap required in mm
400–600	8
600–1,000	6

### Torque for fixing screws

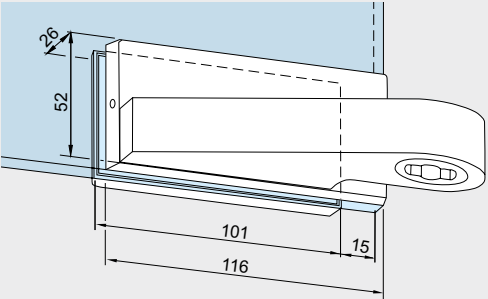
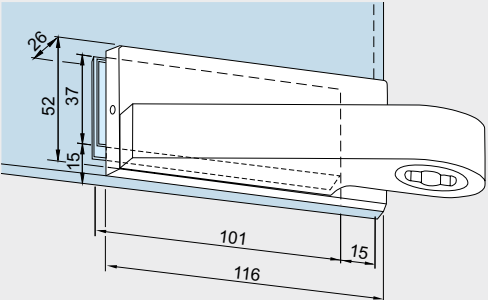
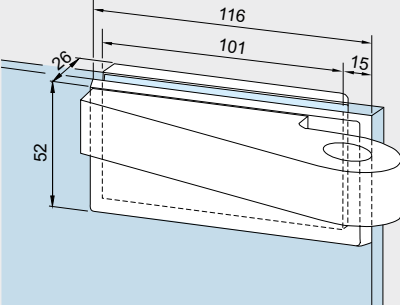
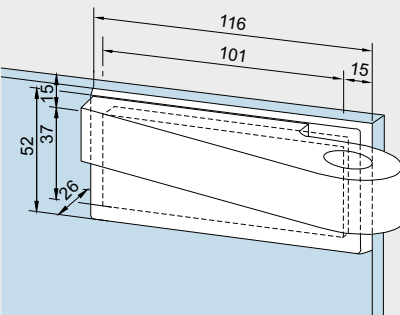
Screws M 8: 12 Nm

# Patch fittings for offset hung doors in rebated frames with 24 mm rebate depth

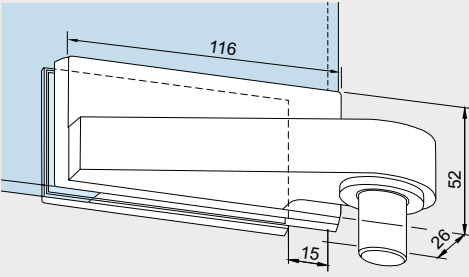
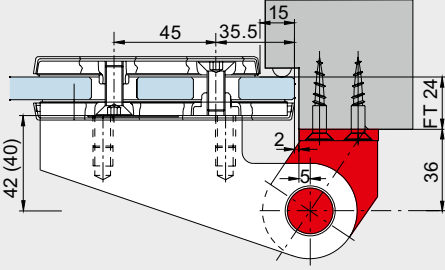
For 10 mm glass thickness (42 mm offset = 49 mm from pivot point to glass surface), complete.

For 12 mm glass thickness (40 mm offset = 47 mm from pivot point to glass surface), complete.

Accessories see page 204.

	Product description	Glass thickness	Art. No.
	<b>Bottom patch fitting</b> to suit floor spring spindle, or round pivot 14 mm Ø counter-plate reduced by 15 mm to give free glass edge at side	10 mm 12 mm	<b>*02.102/02.103</b>
	Weight in kg: Aluminum 0.747		
	<b>Bottom patch fitting</b> to suit floor spring spindle, or round pivot 14 mm Ø counter-plate reduced by 15 mm to give free glass edge at side and bottom	10 mm 12 mm	<b>*02.104/02.105</b>
	Weight in kg: Aluminum 0.715		
	<b>Top patch fitting</b> counter-plate reduced by 15 mm to give free glass edge at side	10 mm 12 mm	<b>*02.112/02.113</b>
	Weight in kg: Aluminum 0.680		
	<b>Top patch fitting</b> counter-plate reduced by 15 mm to give free glass edge at side and top	10 mm 12 mm	<b>*02.114/02.115</b>
	Weight in kg: Aluminum 0.644		

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side.  
(Illustration shows right hand)

	Product description	Glass thickness	Art. No.
	<b>Overpanel patch fitting</b> counter-plate reduced by 15 mm to give free glass edge at side, bushing outside Ø 20 mm, pivot Ø 15 mm  Weight in kg: Aluminum 0.654	10 mm 12 mm	<b>*02.122/02.123</b>
	<b>Top patch fitting</b> complete with pivot for frame fixing, counter-plate reduced by 15 mm to give free glass edge at side  Weight in kg: Aluminum 0.915	10 mm 12 mm	<b>*02.206/02.207</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side.  
(Illustration shows right hand)

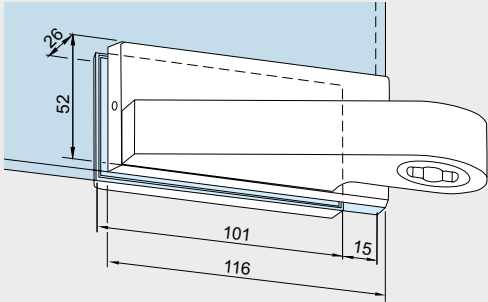
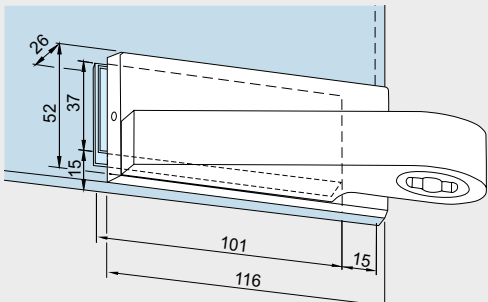
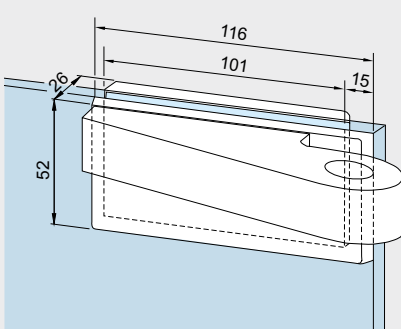
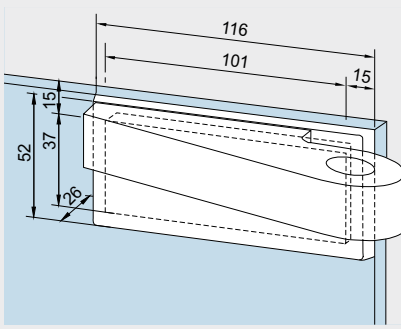
# Patch fittings for offset hung doors in rebated frames with individual frame stop depth

## Please specify rebate depth with order.

Rebate depth X = distance between outer surface of frame and rebate/stop (15 to 23 resp. 25 to 40 mm).

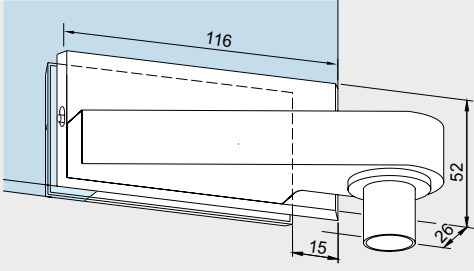
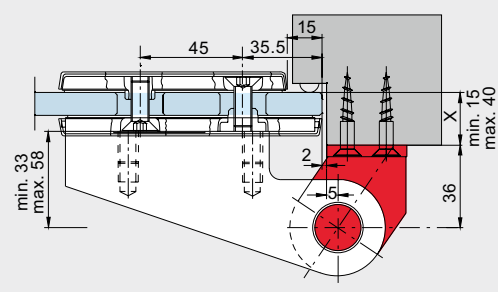
Offset = rebate depth + 18 mm (33 to 41 resp. 43 to 58 mm). Complete, for 10 mm glass thickness.

Accessories see page 204.

	Product description	Art. No.
	<b>Bottom patch fitting</b> to suit floor spring spindle or round pivot 14 mm Ø, counter-plate reduced by 15 mm to give free glass edge at side  Weight in kg: Aluminum 0.832	<b>*02.106/02.107</b>
	<b>Bottom patch fitting</b> to suit floor spring spindle or round pivot 14 mm Ø, counter-plate reduced by 15 mm to give free glass edge at side and bottom  Weight in kg: Aluminum 0.800	<b>*02.108/02.109</b>
	<b>Top patch fitting</b> counter-plate reduced by 15 mm to give free glass edge at side  Weight in kg: Aluminum 0.760	<b>*02.116/02.117</b>
	<b>Top patch fitting</b> counter-plate reduced by 15 mm to give free glass edge at side and top  Weight in kg: Aluminum 0.728	<b>*02.118/02.119</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side.  
(Illustration shows right hand)

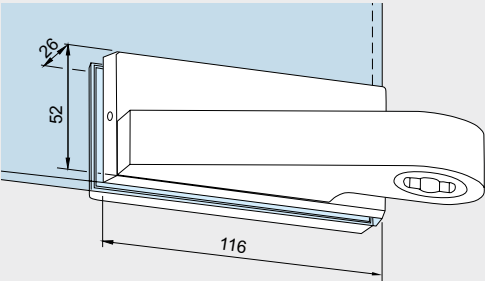
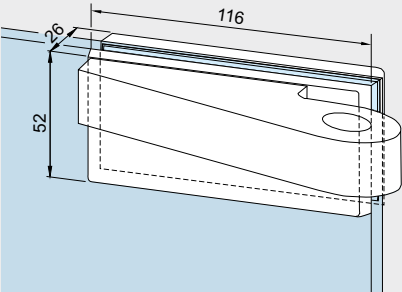
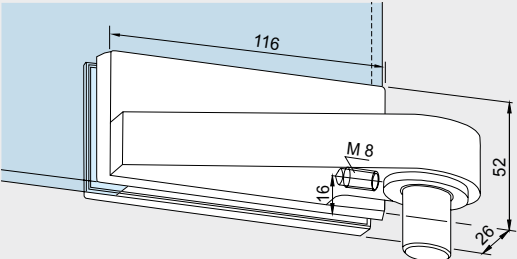
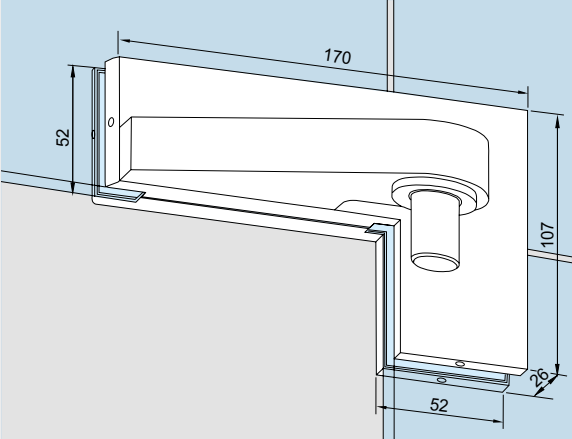


	Product description	Art. No.
	<p><b>Overpanel patch fitting</b> counter-plate reduced by 15 mm to give free glass edge at side</p> <p>Weight in kg: Aluminum 0.724</p>	<p><b>*02.124/02.125</b></p>
	<p><b>Top patch fitting</b> complete with pivot for frame fixing, counter-plate reduced by 15 mm to give free glass edge at side</p> <p>Weight in kg: Aluminum 0.995</p>	<p><b>*02.208/02.209</b></p>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side.  
(Illustration shows right hand)

# Patch fittings for offset hung doors in toughened glass assemblies

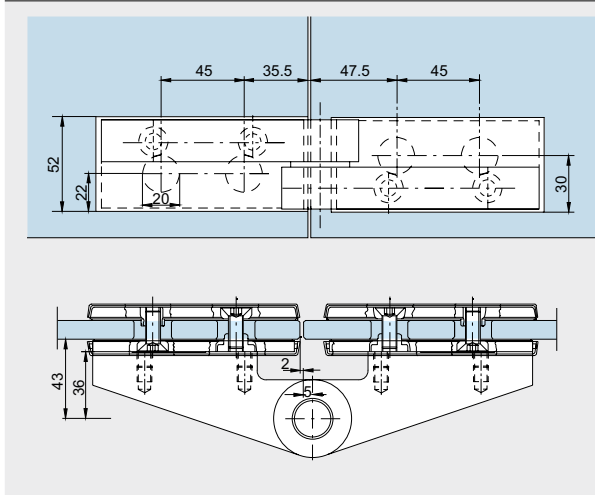
(36 mm offset = 43 mm from pivot point to glass surface), complete, for 10 and 12 mm glass thickness.

	Product description	Art. No.
	<b>Bottom patch fitting</b> to suit floor spring spindle, or round pivot 14 mm Ø  Weight in kg: Aluminum 0.730	<b>*02.100/02.101</b>
	<b>Top patch fitting</b>  Weight in kg: Aluminum 0.660	<b>*02.110/02.111</b>
	<b>Overpanel patch fitting</b> bushing outside Ø 20 mm, pivot Ø 15 mm  Weight in kg: Aluminum 0.637	<b>*02.120/02.121</b>
	<b>Patch fitting for overpanel and sidelight</b> bushing outside Ø 20 mm, pivot Ø 15 mm  Weight in kg: Aluminum 0.832	<b>*02.140/02.141</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

## Product description

## Art. No.

**Top patch fitting**

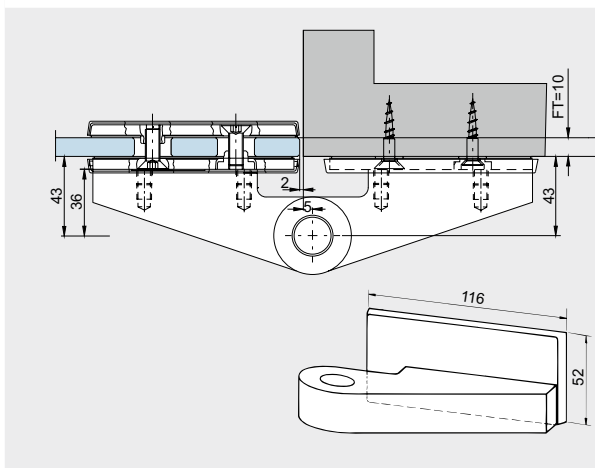
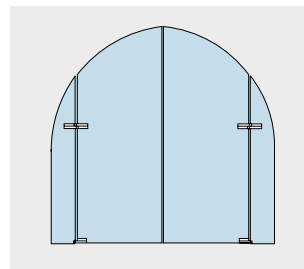
complete with pivot for sidelight

**\*02.200/02.201**

Weight in kg:

Aluminum

1.415

**Top patch fitting**

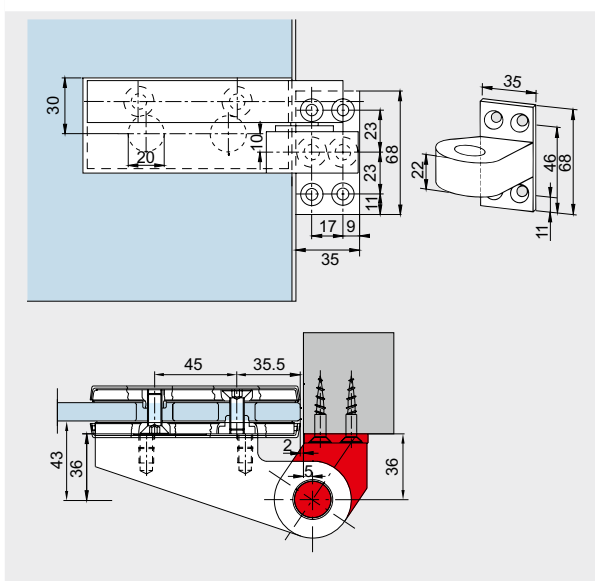
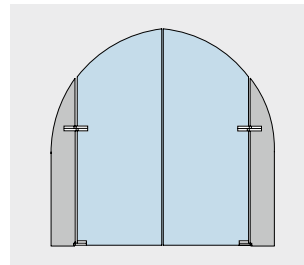
complete with pivot for wall fixing

**\*02.202/02.203**

Weight in kg:

Aluminum

1.277

**Top patch fitting**

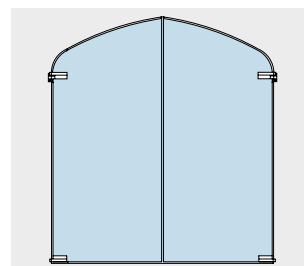
complete with pivot for frame fixing

**\*02.204/02.205**

Weight in kg:

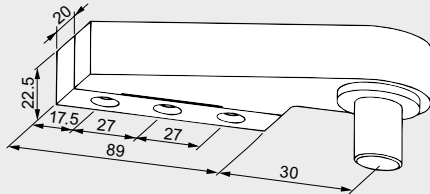
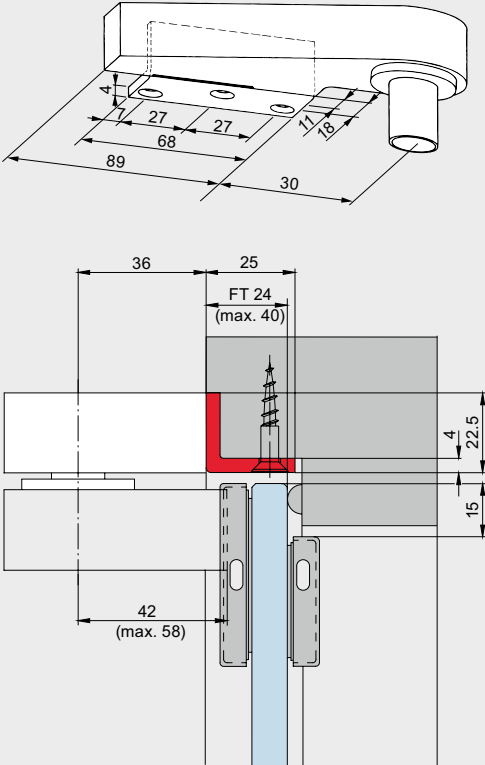
Aluminum

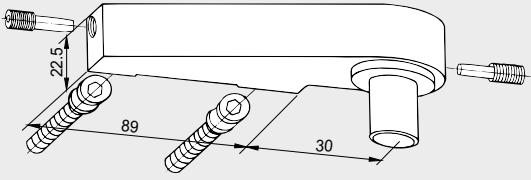
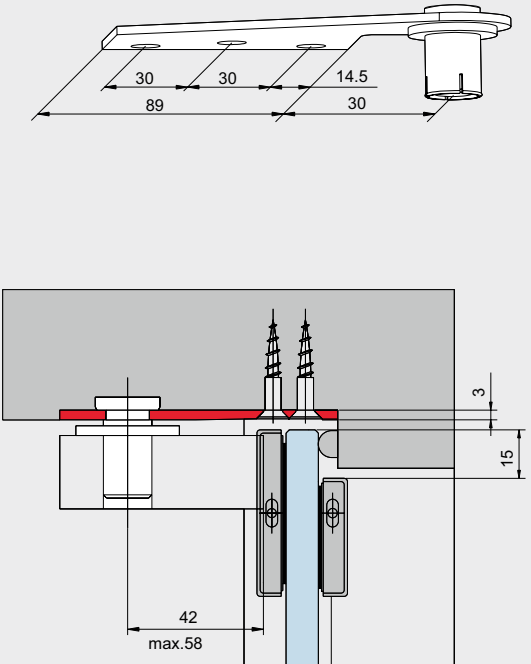
0.895



\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

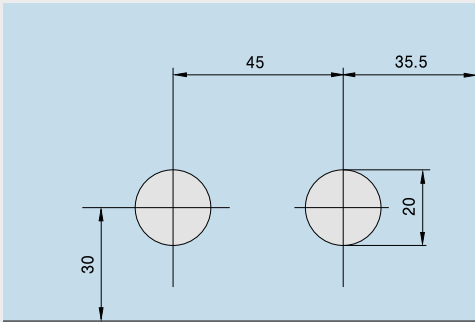
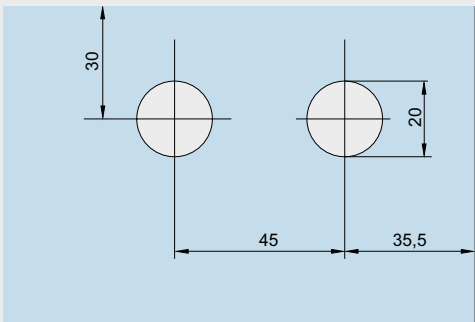
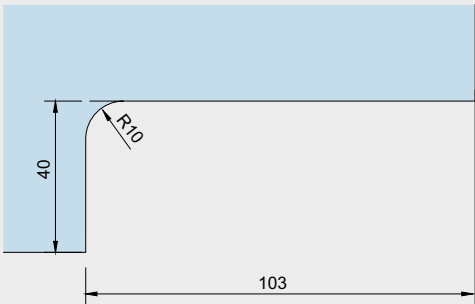
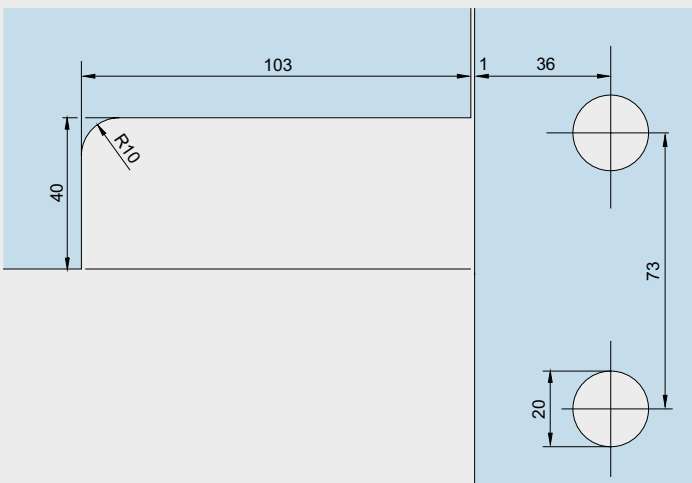
# Top centres for wood and steel frames

	Product description	Art. No.
	<b>Frame top centre</b> with fixing block  Weight in kg: Aluminum 0.471  (If corner fittings / door rails are combined with frame top centres as described, please indicate rebate depth with order.)	<b>02.150</b>
	<b>Frame top centre</b> with angle bracket  Weight in kg: Aluminum 0.453	<b>02.151</b>

	Product description	Art. No.
	<b>Frame top centre</b> only for steel frames, with special wedge screw fixing	<b>*02.152/02.153</b>
	Weight in kg: Aluminum 0.390	
	<b>Drill jig:</b>	<b>8.02.081.001.50</b>
	<b>Frame top centre AT 212 GSR</b> with mounting plate	<b>*02.340/02.341</b>
	Weight in kg: Stainless steel 0.215	

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

# Glass preparation

	Product description	DIN	Art. No.		
	<b>Bottom patch fittings</b>	left	<b>02.100</b> <b>02.102</b> <b>02.104</b> <b>02.106</b> <b>02.108</b>		
		right	<b>02.101</b> <b>02.103</b> <b>02.105</b> <b>02.107</b> <b>02.109</b>		
		<b>Scale 1 : 2</b>			
			<b>Top patch fittings</b>	left	<b>02.110</b> <b>02.112</b> <b>02.114</b> <b>02.116</b> <b>02.118</b>
				right	<b>02.111</b> <b>02.113</b> <b>02.115</b> <b>02.117</b> <b>02.119</b>
<b>Scale 1 : 2</b>					
	<b>Overpanel patch fittings</b>			left	<b>02.120</b> <b>02.122</b>
				right	<b>02.121</b> <b>02.123</b>
		<b>Scale 1 : 2</b>			
			<b>Patch fittings for overpanel and sidelight</b>	left	<b>02.140</b>
				right	<b>02.141</b>
<b>Scale 1 : 2</b>					

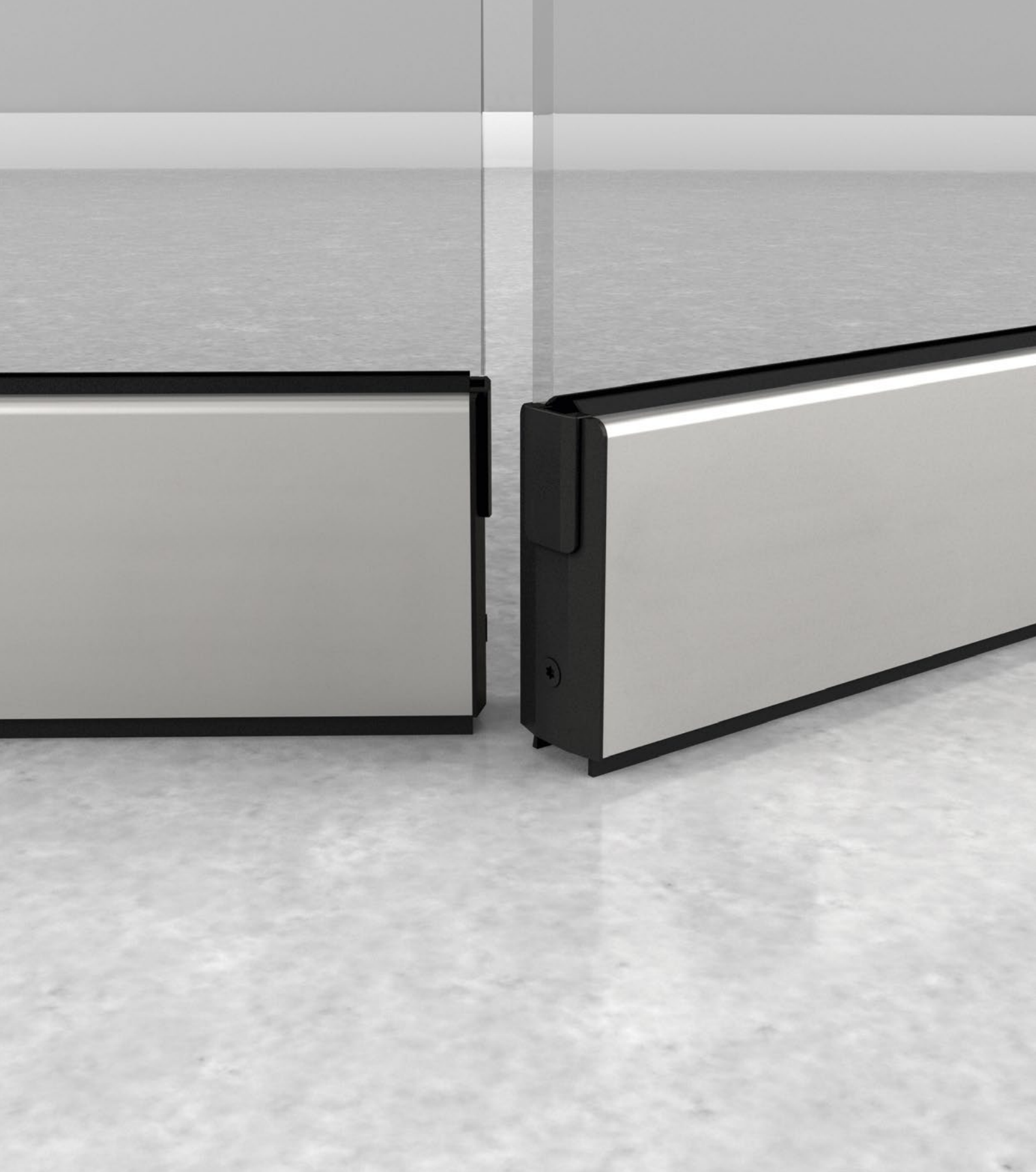
**Space for your notes**

# Content

## TP/TA EASY Safe

104	<b>General information</b>
105	<b>Type illustrations</b>
110	<b>Components</b>
204	<b>Accessories</b>
226	<b>Safety-related information</b>





**TP/TA**  
**EASY Safe**

# The TP/TA EASY Safe door rail range leaves nothing to be desired

The TP/TA EASY Safe door rails for single- and double-action doors are recommended at the top and bottom of the door leaf to stabilize particularly wide doors, or for use only at the bottom edge of the door to protect against impact. Improved sealing against draught is ensured by the double brush channels (positioned towards the inside and outside of the room) which also continue through the lock area. The door rails can also be used identically as side panel rails on fixed parts. Matched to the design and surfaces of DORMA-Glas patch fittings, they create a uniform appearance even in complex toughened glass assemblies. In larger buildings, they extend this continuity to various shop front and entrance solutions by being identically designed like the door rails of HSW systems - on individual doors, in toughened glass assemblies and with horizontal sliding walls.

## Strong against burglary - safe for the people

The sturdy basic profiles of the door rails with the integrated locks are screwed together at intervals of 150 mm from the inside of the room, thus ensuring a firm hold on the glass without access from the outside. Additional bonding (Clamp&Glue) is ideal when using toughened safety glass, and obligatory for laminated safety glass. It provides even more protection against burglary. With locks, the area of application determines the design. Whether prepared for profile or round cylinders, with or without security roses, as a bolt lock closing vertically in the floor or ceiling, or with an additional microswitch for a status indication - everything is in here. Laterally closing latch locks in the door rail are also possible in combination with electric strikes in the adjacent side panel rail.

## Durably high quality

The vertically closing lock inserts are characterized by a special corrosion and abrasion resistant bolt with integrated, hardened safety roller pin. This provides the highest corrosion resistance according to EN 670, class 4 and DIN 825, class 3 (with regard to type testing\*). A neutral testing institute successfully tested the latch function with 500,000 movement cycles and the bolt with 100,000 movement cycles.

## Easy adjustment of the doors - during and after installation

The clamping of the door rails on the glass panel by screwing from only one side makes installation particularly easy, especially with upper pivot points or fixing of fixed panels. This also offers great advantages for adjustment. By easily loosening and re-fixing the upper and lower door rails and the separately clamped lower insert, the vertical glass edges can be aligned exactly to each other, the height adjustment

can be adjusted and the pivot point can be positioned exactly, especially when the system is installed. In order to prevent possible damage due to subsequent work in the area around the door, the covers can be simply clipped on at the very end in the color-giving finishes.

## No glass preparation, secure fastening

Well acquainted with the special features of glass, DORMA-Glas has designed the door rails in such a way that drilling and other glass processing is unnecessary (except for rails with latch lock and electric opener). Sophisticated design measures ensure large clamping surfaces with optimum effect. When using laminated safety glass made of annealed glass or laminated safety glass made of toughened safety glass, additional bonding of the door rail to the glass is mandatory. This minimizes the clamping force and prevents glass breakage.

## Just the right measure

With a uniform height of 105 mm (4.2"), the door rails are manufactured to exact dimensions for doors up to a maximum width of 1,400 mm. Starting with a standard glass thickness of 10 mm toughened safety glass, glass in other thicknesses can also be accommodated with the appropriate intermediate gaskets to suit the order.

TSG: 10 mm; 12 mm; 15 mm; 19 mm

LSG (made of 2 x TSG): 10.8 mm; 12.8 mm; 13.5 mm; 17 mm

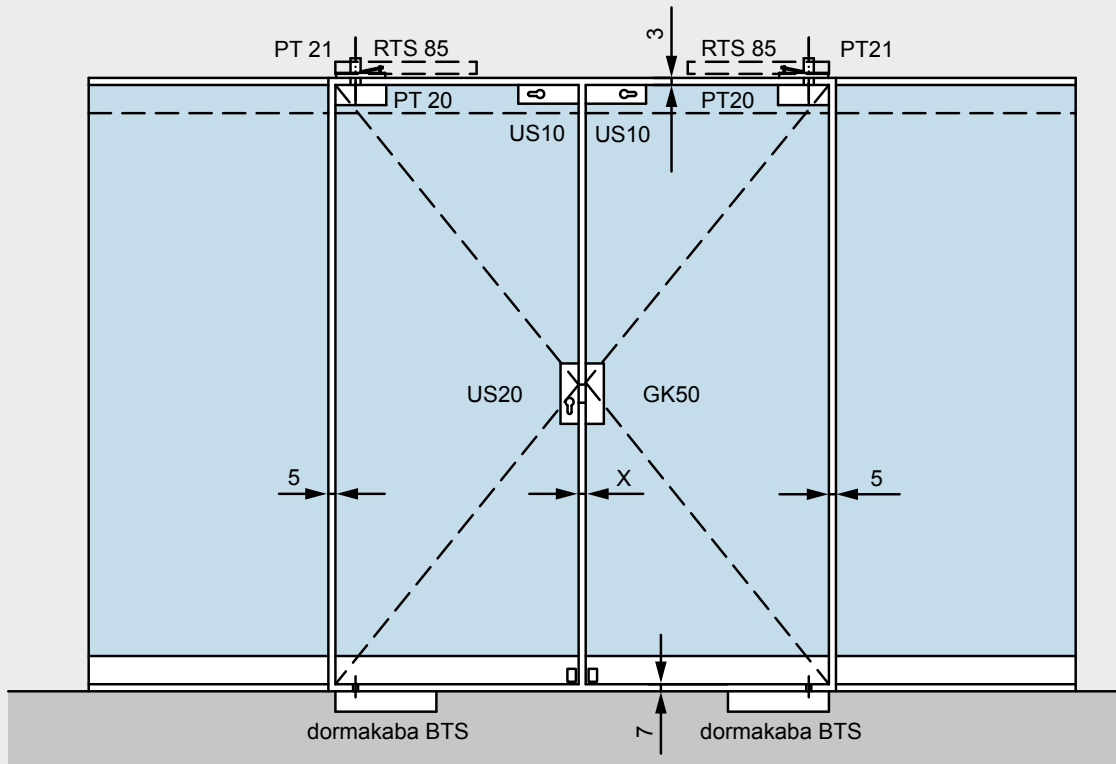
## Variable central pivot point

The door rail inserts for doors with a central pivot point are designed in such a way that the pivot point dimension (distance between the centre of the pivot axis of the door and the wall or adjacent fixed glass panel) can be selected between 55 and 65 mm. Pre-assembled with a pivot point of 65 mm as standard, the corresponding insert can be loosened, turned through 180 degrees around the vertical axis and clamped into the door rail again. A separate insert for a 22 mm pivot point (for floor bearings or dormakaba BTS) is also available.

## Finishes - beauty and protection

In protected indoor areas or exposed to wind and weather: For every application, the surface of the cover profiles also contributes to the right solution. This may concern the color to match the ambience or the choice of material. In extreme weather conditions, for example near the coast, we recommend our highly weather-resistant powder coating on aluminum profiles as well as stainless steel covers.

# Technical specifications



**Note:** Please always indicate the glass thickness when ordering!

## Glass size – height:

### Rail height – 105 mm

Use of rail(s)	total door height less
bottom	80 mm
top	80 mm
bottom + top	160.0 mm

Please treat floor and ceiling clearances separately

## Door rail weight:

Version	Weight
Aluminum	7 kg / m
Satin stainless steel	8.5 kg / m

Gaskets for glass thicknesses available as follows:	10 mm 10.8 mm 12 mm 12.8 mm 13.5 mm 15 mm 17 mm 19 mm
---	--

## Gap required between pairs of doors:

### Offset hung doors and Centre hung doors:

Individual leaf width	X
> 600 mm	5 mm


**Tolerance of glass thickness:** +/- 0.5 mm

RTS = transom closer


# Technical data

## Maximum dimensions for use of bottom door rails in combination with top door rails or top patch fittings

### Panels with double-action door rails combined with ...

	Panel type	Bottom door rail standard			Bottom door rail special type with bottom strap in forged steel			Comments
		weight kg	width mm	height mm	weight kg	width mm	height mm	
								
<b>Door rails for centre hung doors, combined with...</b>								
... Patch fittings UNIVERSAL	●	110	1,200	3,000	120	1,200	3,500	*For high frequent-ed doors we generally recommend to use the bottom strap in forged steel with reduced max. measurements. **pivot point 20 mm ***only for double-action doors with door rail top and bottom
... Patch fittings MUNDUS <sup>1)</sup>								
MUNDUS Comfort	●	150	1,200	3,000	150*	1,200*	3,000*	
MUNDUS Premium	●	150	1,200	3,000	200 (170*)	1,300 (1,200*)	3,800 (3,500*)	
... Patch fittings EP UNIVERSAL pinch	●	100	1,100	3,000				
... Door rails standard	●	150	1,200	3,500	200*** (150*)	1,400*** (1,200*)	4,000 (3,500*)	
... Door rails clamp free	●	120	1,200	3,500				

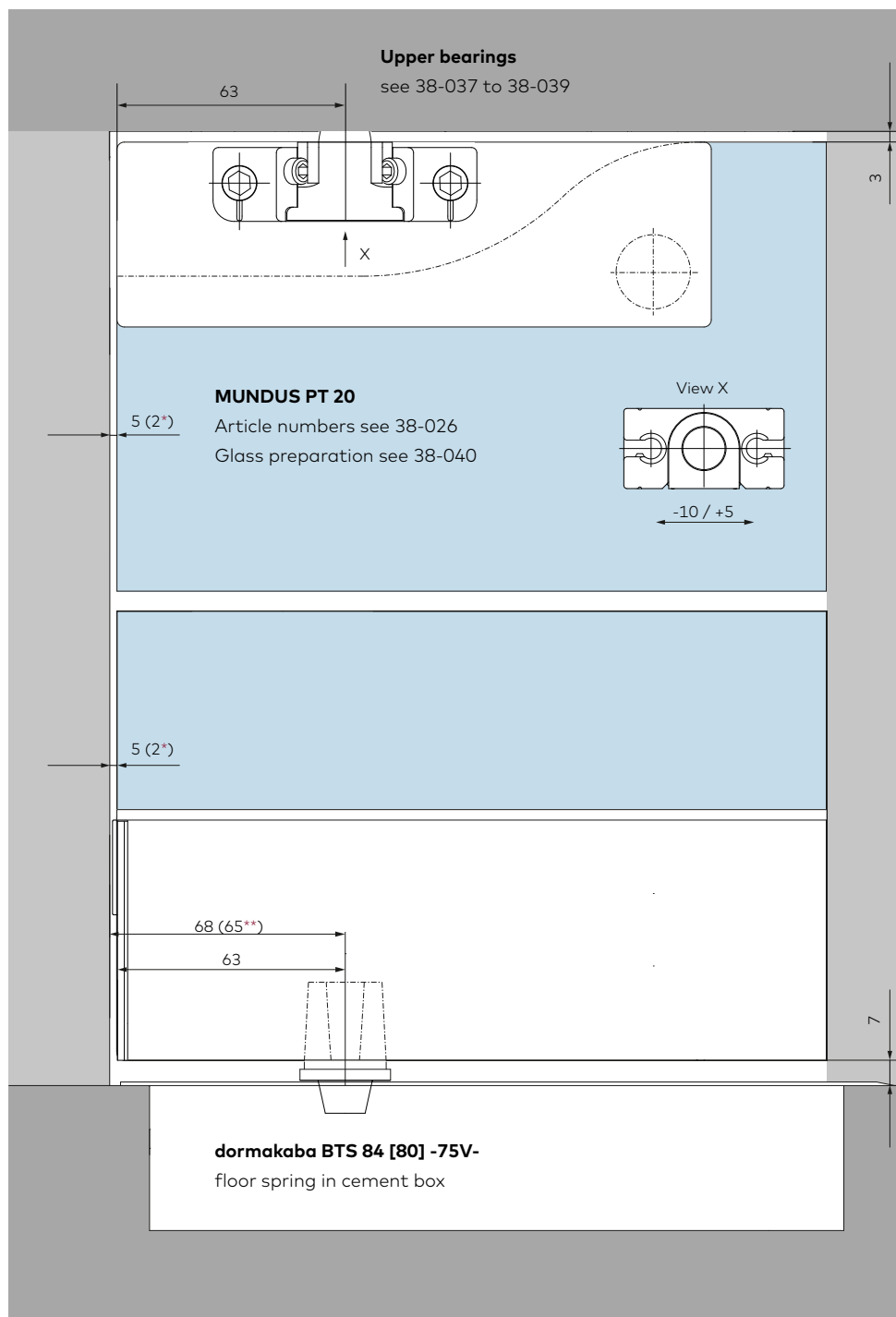
### Panels with single-action door rails combined with ...

	Panel type	Bottom door rail standard			Comments
		weight kg	width mm	height mm	
Door rails for offset hung doors in toughened glass assemblies, combined with...					34 mm door stap for toughened glass assemblies
... Patch fittings EA	●	100	1,200	3,000	
... Door rails standard	●	100	1,200	3,500	
Door rails for offset hung doors in rebated frames (24 mm/26 mm rebate depth), combined with ...					40 mm/42 mm door stap for 24 mm/26 mm rebate depth
... Eckbeschlägen EA	●	90	1,100	3,000	
... Türschienen Standard	●	90	1,100	3,500	
Door rails for offset hung doors in rebated frame (27 mm – 40 mm rebate depth), combined with ...					43 mm/58 mm door stap for 27 mm – 40 mm rebate depth
... Patch fittings EA	●	80	1,000	3,000	
... Door rails standard	●	80	1,000	3,500	

Torque for fixing screws: Screws M 8 : 15 Nm

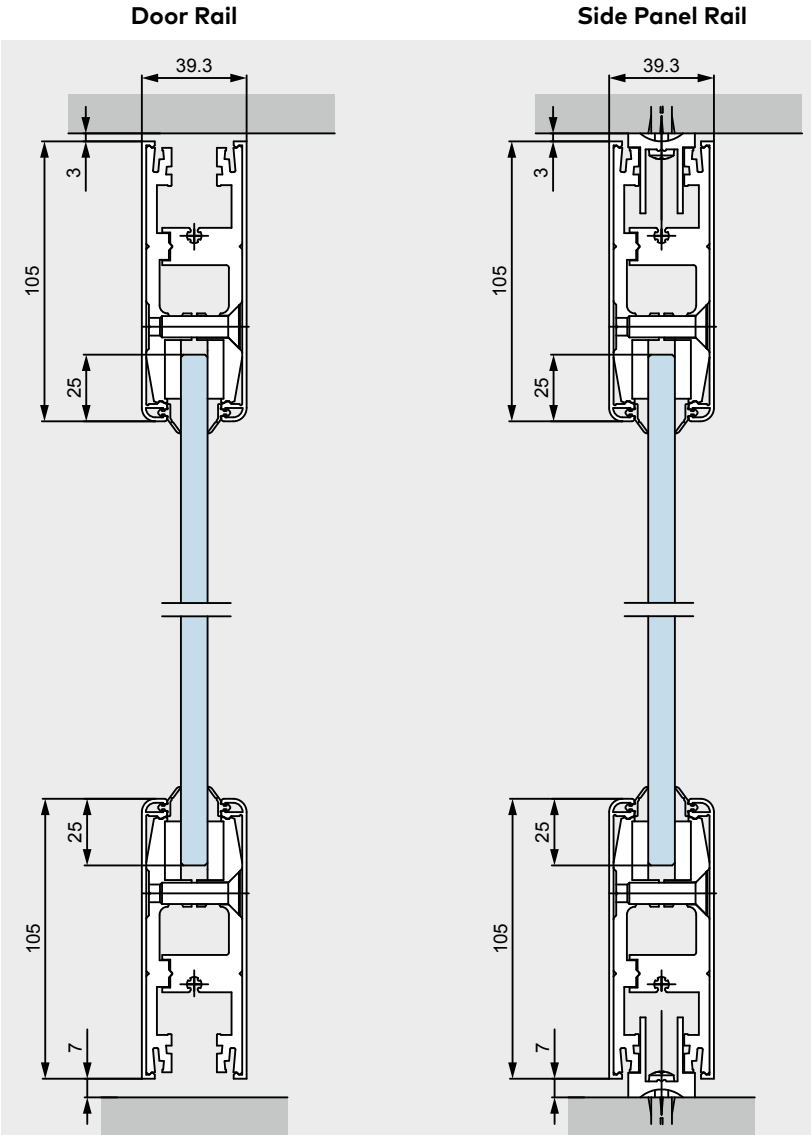
<sup>1)</sup> Doors weighing 150 kg or more or with a height of 3,000 mm or more must be glued. For gluing instructions, see matrix for door dimensions, TB Fittings for toughened glass assemblies.

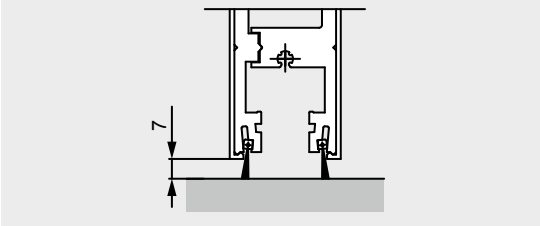
**TP/TA EASY Safe**  
in combination with patch fitting MUNDUS



\* without cap  
\*\* to wall

# Rail cross sections

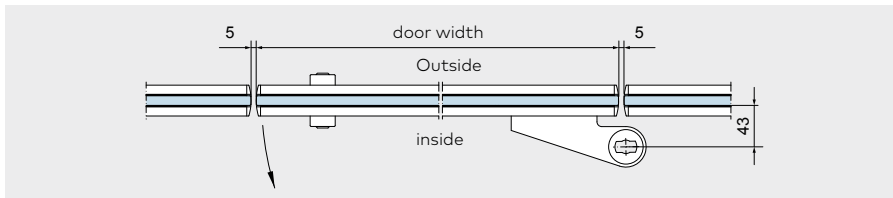


Product description		Art. No.
	<b>Double sealing brush</b> for door rails (also in the area of inserts, locks, etc.) stock length 2,000 mm	<b>40.072</b>

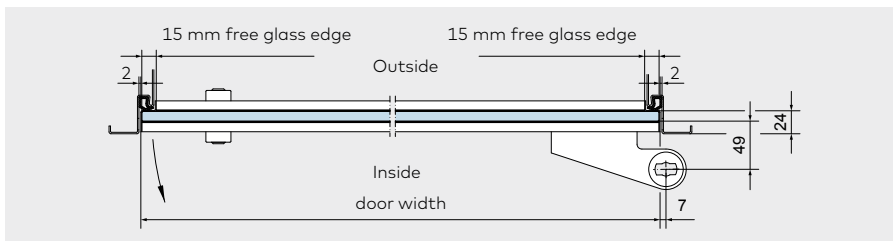
# Construction details

## Please always indicate when ordering:

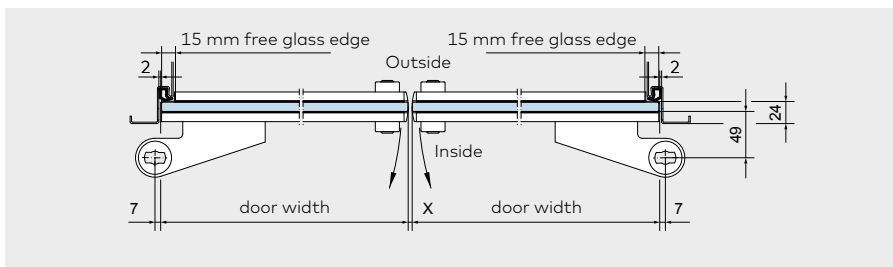
- DIN direction and opening direction
- Pivot point or rebate depth
- exact wing width
- Glass thickness and glass type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system



Offset hung door in toughened glass assembly

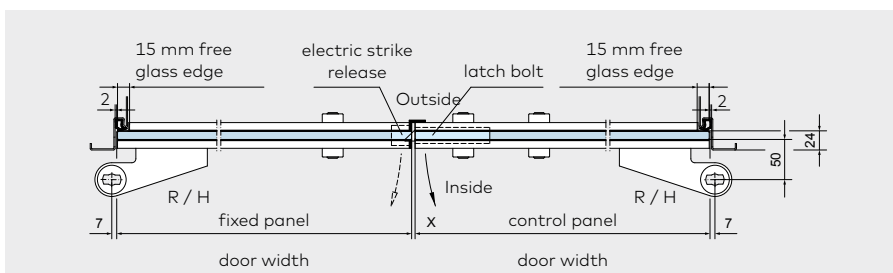


Offset hung door in rebated frame with 24 mm rebate depth



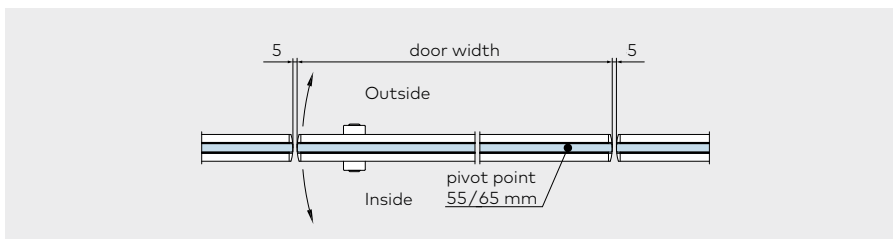
Pair of offset hung doors in rebated frame with 24 mm rebate depth

X = Gap, 5 mm

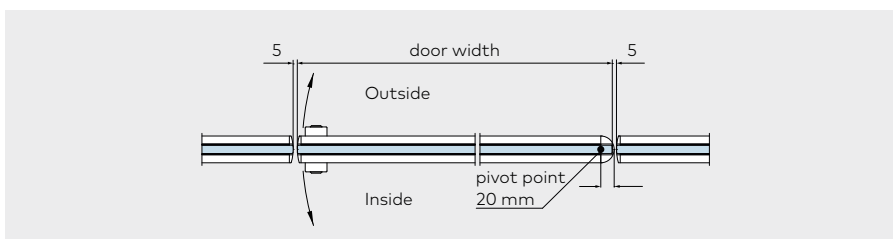


Pair of offset hung doors in rebated frame with 24 mm rebate depth (also available with inserts for centre hung doors), with electric strike release and latch bolt

X = Gap, 5 mm



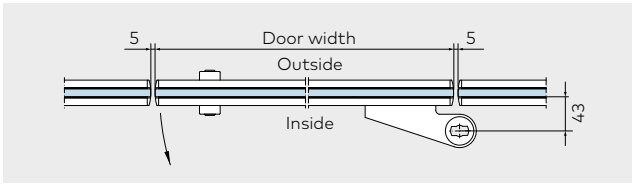
Centre hung doors with pivot point 55 / 65 mm und 20 mm

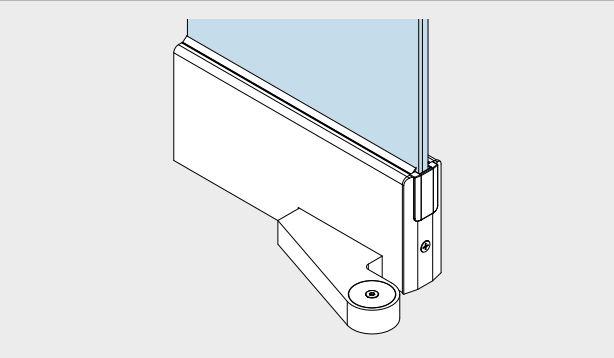
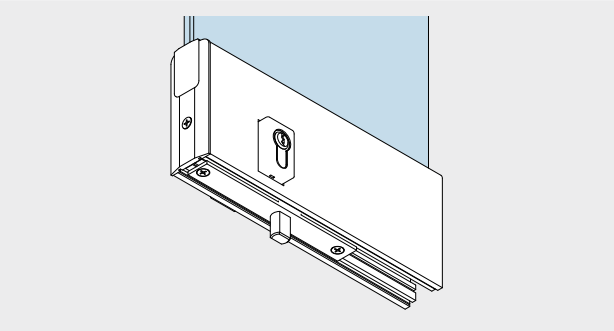
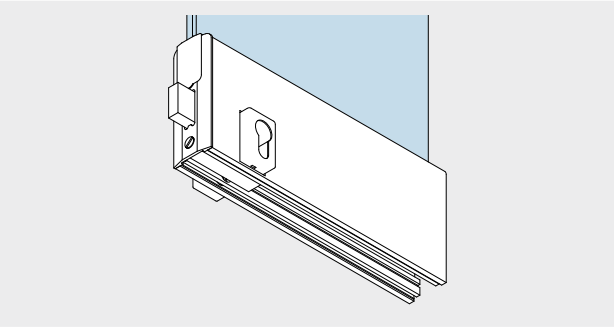
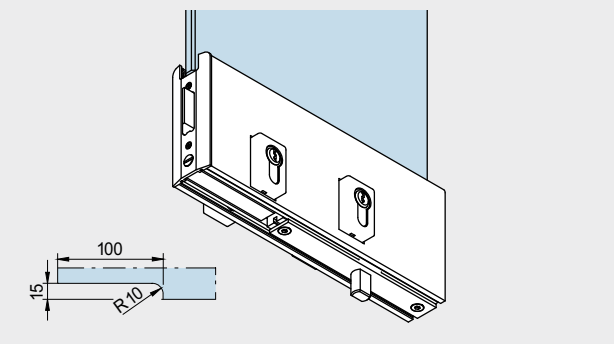


# Door rails for offset hung doors in toughened glass assemblies without rebated frames

Complete, for 10 mm glass thickness, without free glass edges, pivot point to glass surface 43 mm

**Note:** Please note the internal screw connection of the door rail



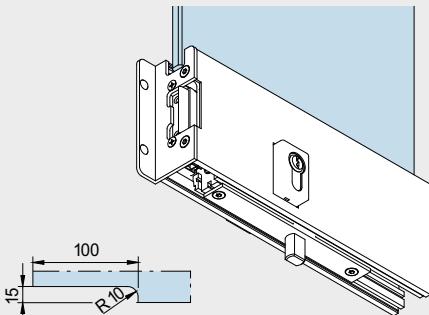
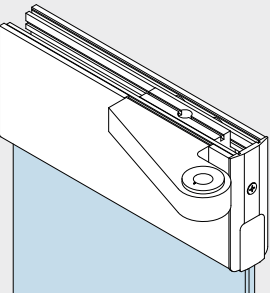
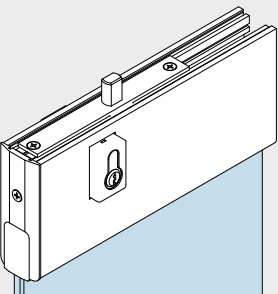
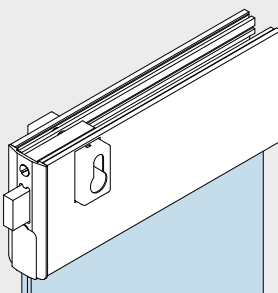
	Product description	Art. No.
	Lower base rail	*40.731/40.733
	Additional module with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt	*40.751/40.753
	Additional module with side locking lock, prepared for Europrofile cylinder, double throw	*40.771/40.773
	Additional module with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin and latch bolt at side for electric strike release	*40.779/40.781

\*Left / right hand (illustration shows right hand) are determined by view from hanging side.



**Please always indicate when ordering:**

- DIN direction
- exact wing width
- Glass thickness and glass type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

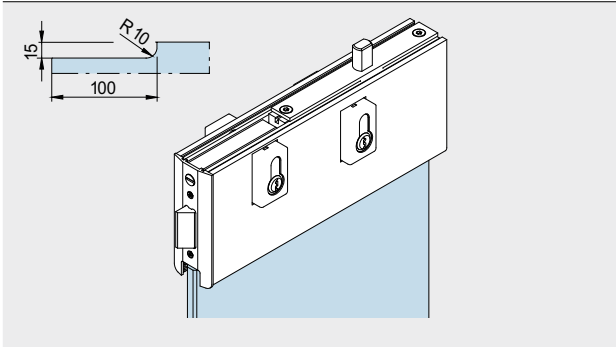
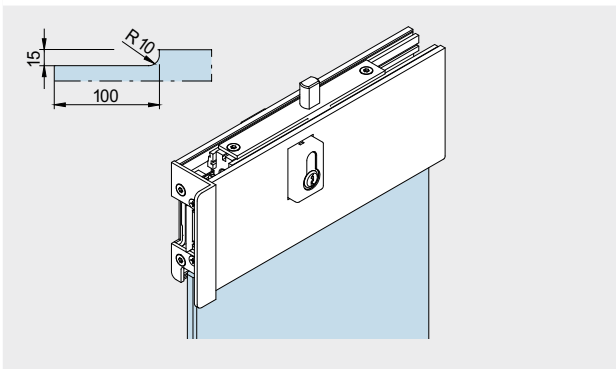
	Product description	Art. No.
	<b>Additional module with downward closing bolt lock</b> , PZ prepared, 1-turn with corrosion protected bolt and hardened safety roller pin and lateral E-opener (Standard: fail secure function, 6 to 12 V –/–)	<b>*40.783/40.785</b> (for Art. No. 40.781/40.779)
	<b>Upper base rail</b>	<b>*40.732/40.734</b>
	<b>Additional module with top locking lock, prepared for Europrofile cylinder</b> , single throw	<b>*40.752/40.754</b>
	<b>Additional module with side locking lock, prepared for Europrofile cylinder</b> , double throw	<b>*40.772/40.774</b>

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

# Door rails for offset hung doors in toughened glass assemblies without rebated frames

## Please always indicate when ordering:

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	<b>Upper base rail Additional module with top locking lock, prepared for Europrofile cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin and latch bolt at side for electric strike release	<b>**40.780/40.782</b>
	<b>Additional module with top locking lock, prepared for Europrofile cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin and electric strike release (Standard: fail secure function, 6 to 12 V –/–)	<b>*40.784/40.786</b> (for Art. No. 40.782/40.780)

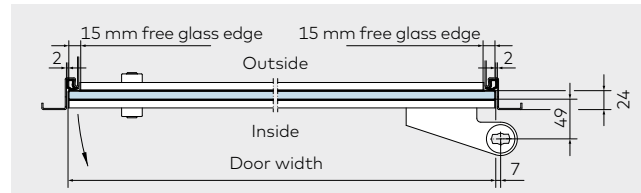
\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

\*\* Left / right hand (illustration shows left hand) are determined by view from hanging side.

# Door rails for offset hung doors in rebated frames

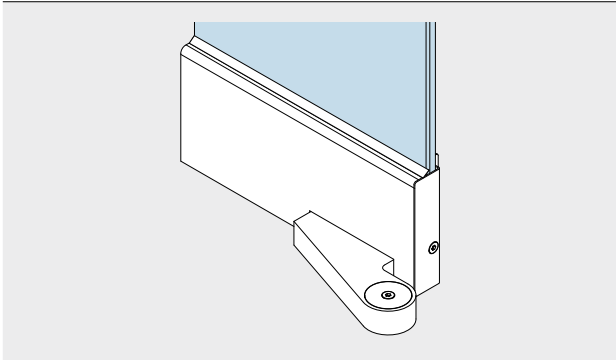
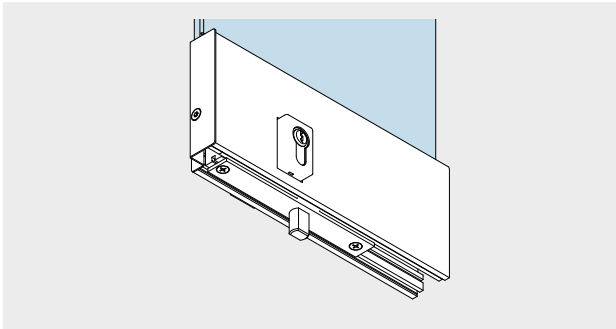
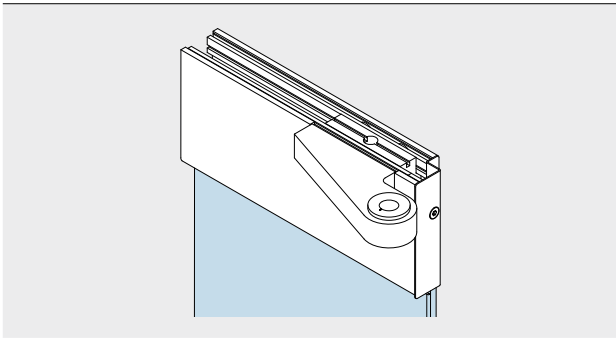
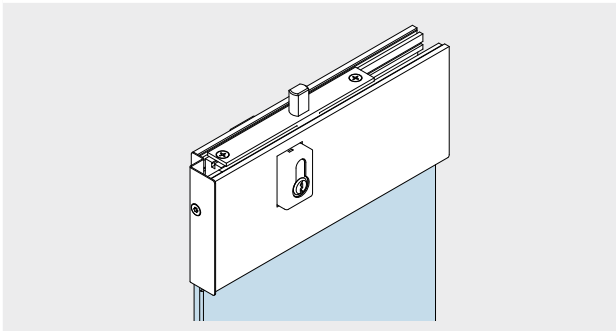
## With 24 mm rebate depth

Complete, for 10 mm glass thickness, strap 40 mm, with free glass edge left and right, pivot point to glass surface 50 mm. Also available for rebate depths up to 40 mm. If required, please talk to our Application Engineering people.



### Please always indicate when ordering:

- DIN direction
- Deviating rebate depth up to max. 40 mm
- exact wing width
- Glass thickness/type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

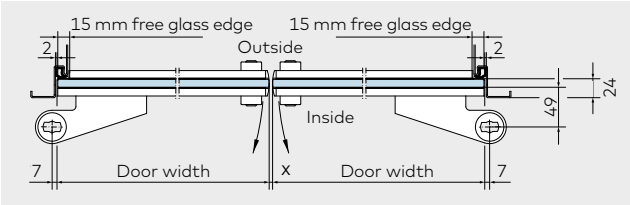
	Product description	Art. No.
	Lower base rail	*40.735/40.737
	Additional module with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin	*40.755/40.757
	Upper base rail	*40.736/40.738
	Additional module with top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin	*40.756/40.758

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

# Door rails for double offset hung doors in rebated frames

**With 24 mm rebate depth**

Complete, for 10 mm glass thickness, strap 40 mm, with 15 mm free glass edge of hanging stile, pivot point to glass surface 50 mm

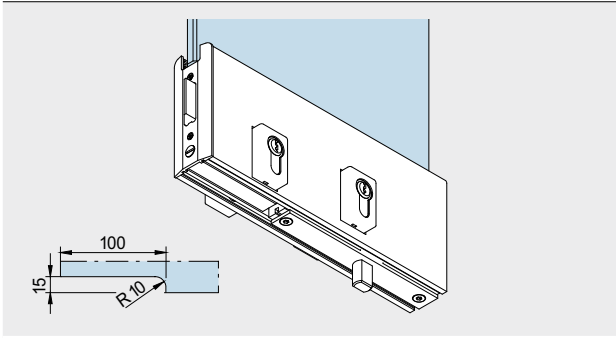
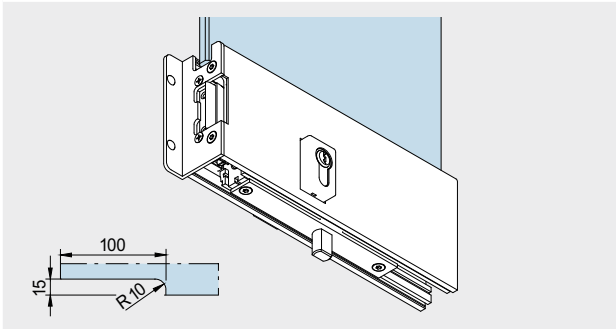


	Product description	Art. No.
	Lower base rail	*40.739/40.741
	Additional module with floor locking lock, prepared for Europrofile cylinder, single throw	*40.759/40.761
	Additional module with side locking lock, prepared for Europrofile cylinder, double throw	*40.775/40.777

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

**Please always indicate when ordering:**

- DIN direction
- Deviating rebate depth up to max. 40 mm
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

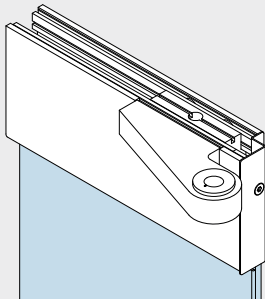
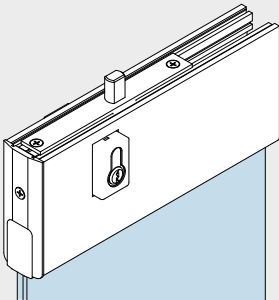
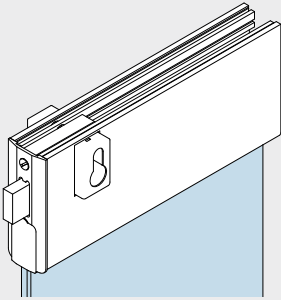
	Product description	Art. No.
	<b>Lower base rail</b> with floor locking bolt lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin and latch lock at side for electric strike release	<b>*40.743/40.745</b>
	<b>Additional module with floor locking bolt lock,            prepared for Europrofile cylinder,</b> single throw with corrosion resistant bolt and hardened safety roll pin and electric strike release at side (Stan- dard: fail secure function, 6 to 12 V -/-)	<b>*40.747/40.749</b>

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

# Door rails for double offset hung doors in rebated frames

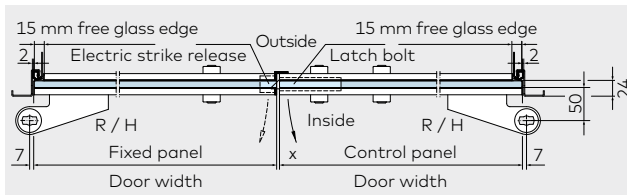
## Please always indicate when ordering:

- DIN direction
- Deviating rebate depth up to max. 40 mm
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	Upper base rail	*40.740/40.742
	Additional module with top locking lock, prepared for Europrofile cylinder, single throw	*40.760/40.762
	Additional module with side locking lock, prepared for Europrofile cylinder, double throw	*40.776/40.778

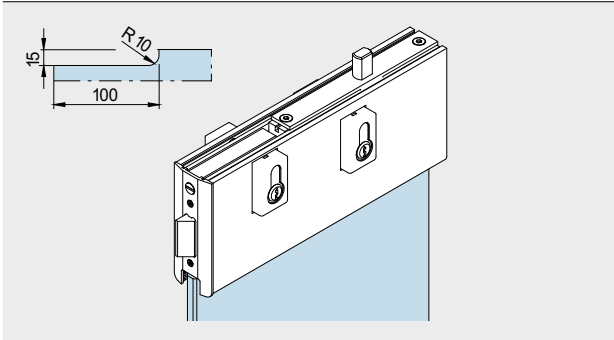
\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

# Double door with electric opener and latch lock



## Product description

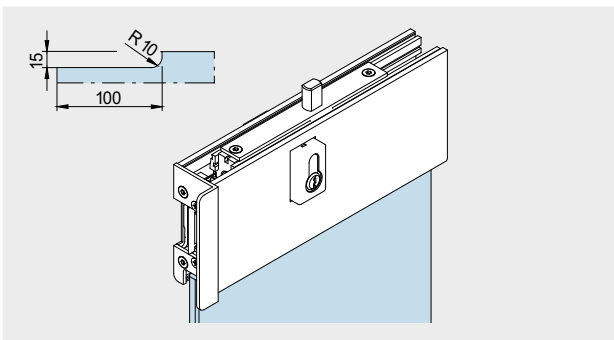
## Art. No.



### Upper base rail

with top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin and latch bolt at side for electric strike release

**\*40.744/40.746**



**Additional module with top locking bolt lock, prepared for Europrofile cylinder**, single throw with corrosion resistant bolt and hardened safety roll pin and electric strike release at side (Standard: fail secure function, 6 to 12 V -/-)

**\*\*40.748/40.750**  
(for Art. No. 04.182/04.180)

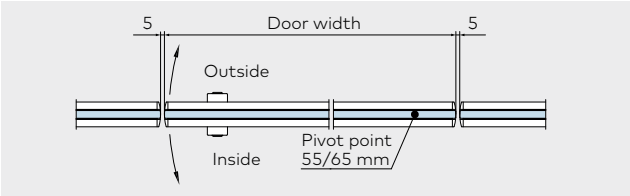
\* Left / right hand (illustration shows left hand) are determined by view from hanging side

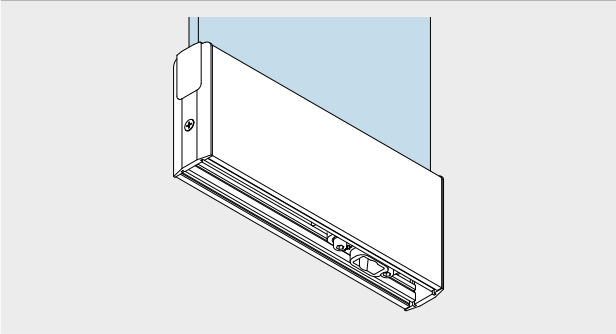
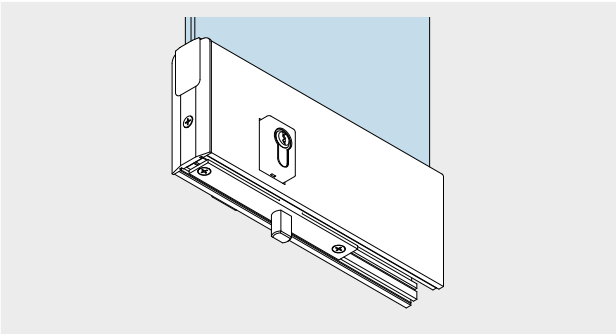
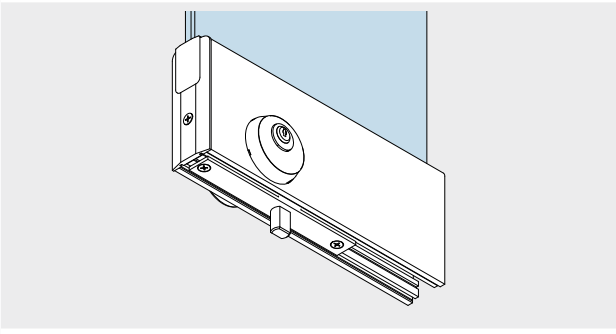
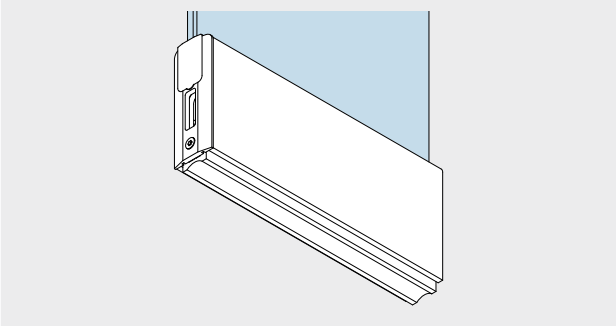
\*\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

# Door rails for double-action doors

## Complete, for 10 mm glass thickness

Pivot point dimension for combination door rail and UNIVERSAL fittings 55 / 65 mm  
Pivot point dimension for combination door rail and MUNDUS fittings 58 / 68 mm



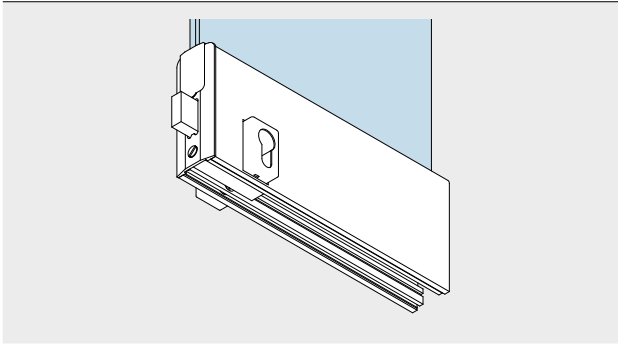
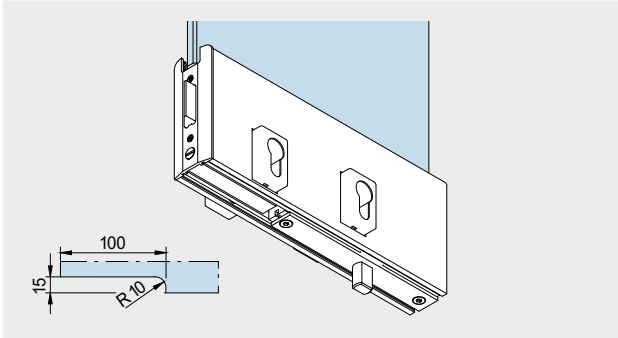
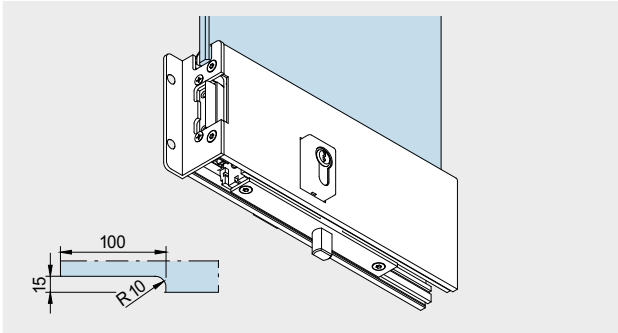
	Product description	Art. No.
	<b>Lower base rail</b> with stainless steel insert to suit floor spring spindle or round pivot 14 mm Ø	<b>*40.701/40.801</b>
	<b>Additional module with floor locking lock, prepared for Europrofile cylinder, single throw</b>	<b>*40.711/40.811</b>
	<b>Additional module with floor locking lock, prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</b>	<b>*40.763/40.863</b>
	<b>Additional module with strike-box for side bolt locking,</b> door width up to max. 1,200 mm (> 1,200 mm on request)	<b>40.915</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)



**Please always indicate when ordering:**

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

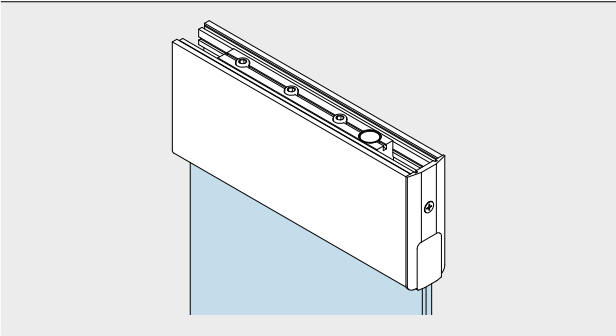
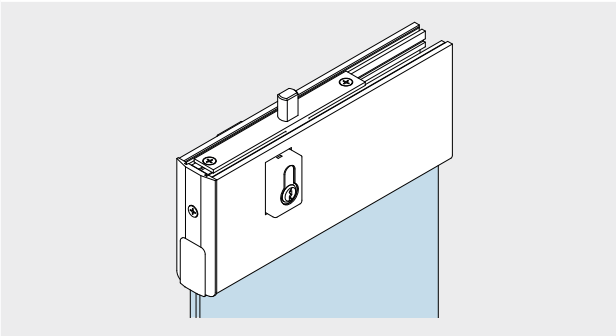
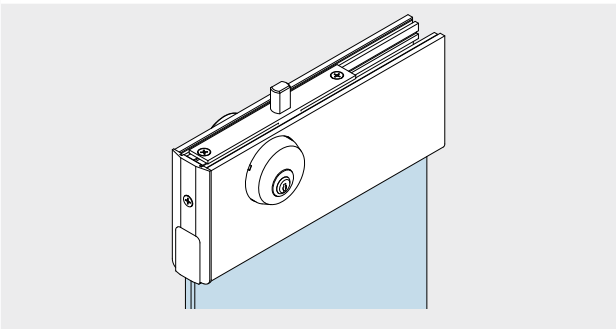
	Product description	Art. No.
	<b>Additional module with side locking lock, prepared for Europrofile cylinder, double throw</b>	<b>*40.721/40.821</b>
	<b>Lower base rail</b> with latch lock at side for electric strike release and floor locking bolt lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin. The use of latch lock or electric strike release results from a single-action door situation.	<b>*40.791/40.793</b>
	<b>Additional module with electric strike release at side</b> (Standard: fail secure function, 6 to 12 V -/-) and floor locking bolt lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin. The use of latch lock or electric strike release result from a single-action door situation.	<b>*40.796/40.798</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

# Door rails for double-action doors

## Complete, for 10 mm glass thickness

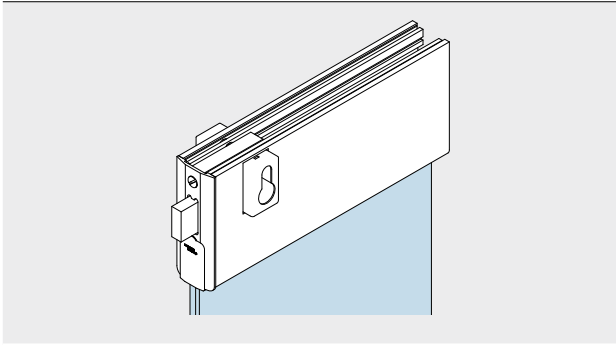
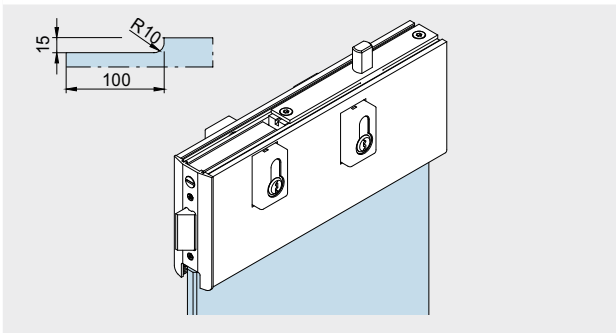
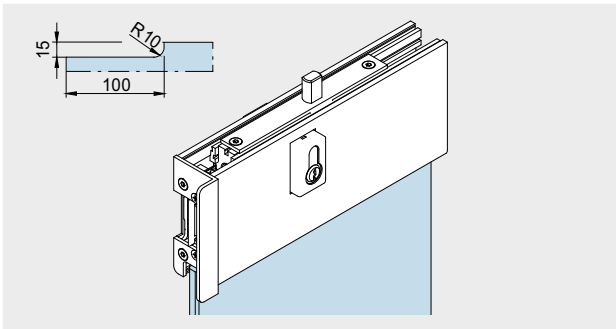
Pivot point dimension for combination door rail and UNIVERSAL fittings 55 / 65 mm  
Pivot point dimension for combination door rail and MUNDUS fittings 58 / 68 mm

	Product description	Art. No.
	<b>Upper base rail</b> with insert to take 15 mm Ø pivot pin	<b>*40.702/40.802</b>
	<b>Additional module with top locking lock, prepared for Europrofile cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin :	<b>*40.712/40.812</b>
	<b>Additional module with top locking lock prepared for round cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin	<b>*40.763/40.863</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

**Please always indicate when ordering:**

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	<b>Upper base rail</b> with side locking lock, prepared for Europrofile cylinder, double throw	<b>*40.722/40.822</b>
	<b>Additional module with latch lock at side for electric strike release and top locking bolt lock, prepared for Europrofile cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin. The use of latch lock or electric strike release results in a single-action door situation.	<b>*40.792/40.794</b>
	<b>Additional module with electric strike release at side</b> (Standard: fail secure function, 6 to 12 V -/~) and top locking bolt lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin. The use of latch lock or electric strike release results in a single-action door situation.	<b>*40.797/40.799</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

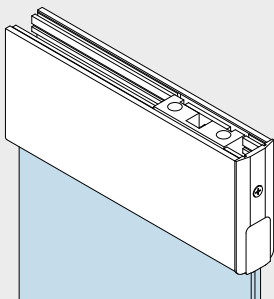
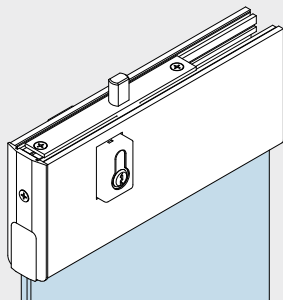
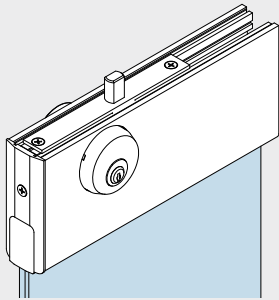
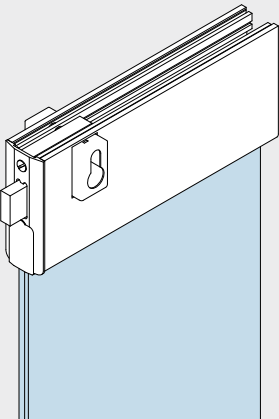
# Door rails for double-action doors prepared for frame door closers RTS 85

## Complete, for 10 mm glass thickness

Pivot point dimension for combination door rail and  
UNIVERSAL fittings 55 / 65 mm

## Please always indicate when ordering:

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

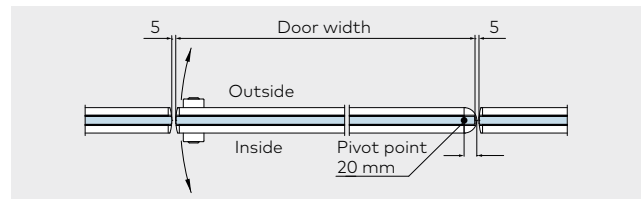
	Product description	Art. No.
	<b>Upper base rail</b> with insert for RTS transom closer	<b>*40.706/40.806</b>
	<b>Additional module and top locking lock,</b> <b>prepared for Europrofile cylinder,</b> single throw with corrosion resistant bolt and hardened safety roll pin	<b>*40.716/40.816</b>
	<b>Additional module with top locking lock</b> <b>prepared for round cylinder,</b> single throw with corrosion resistant bolt and hardened safety roll pin	<b>*40.767/40.867</b>
	<b>Additional module and side locking lock,</b> <b>prepared for Europrofile cylinder,</b> dou- ble throw	<b>*40.726/40.826</b>

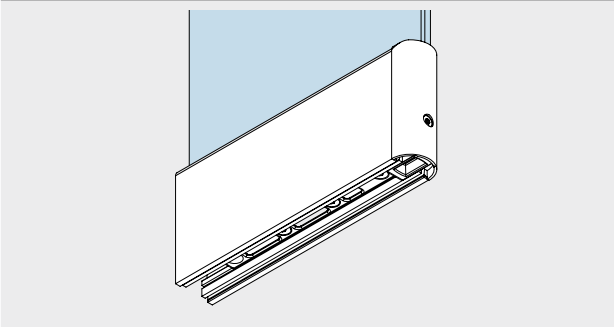
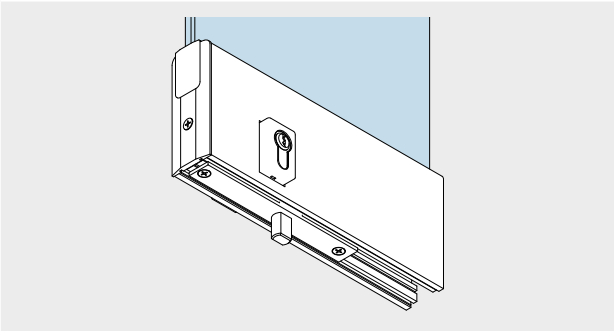
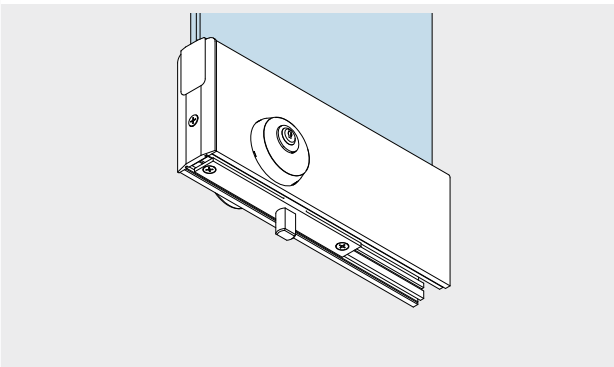
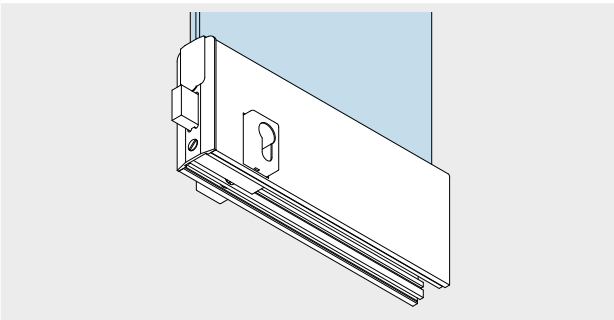
\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

# Door rails for double-action doors

## Complete, for 10 mm glass thickness

Pivot point dimension for combination door rail and UNIVERSAL fittings 55 / 65 mm



	Product description	Art. No.
	<b>Lower base rail</b> with floor spring spindle insert	<b>*40.703/40.803</b>
	<b>Additional module with floor locking lock,</b> <b>prepared for Europrofile cylinder,</b> single throw with corrosion resistant bolt and hardened safety roll pinn	<b>*40.713/40.813</b>
	<b>Additional module with floor locking lock</b> <b>prepared for round cylinder,</b> single throw (not illus-trated) with corrosion resistant bolt and hardened safety roll pin	<b>*40.765/40.865</b>
	<b>Additional module with side locking lock,</b> <b>prepared for Europrofile cylinder,</b> double throw	<b>*40.723/40.823</b>

\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

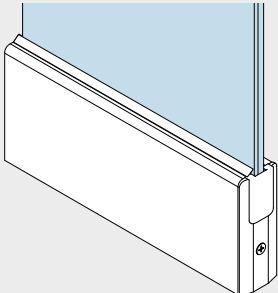
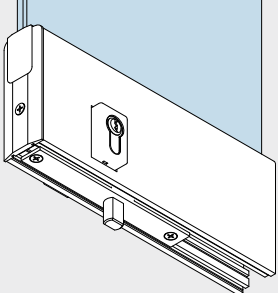
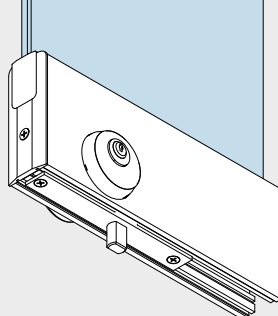
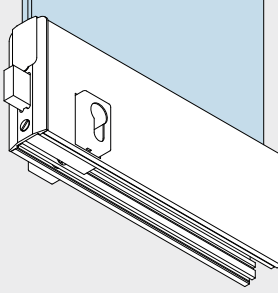
# Door rails for double-action doors

## Complete, for 10 mm glass thickness

Pivot point dimension for combination door rail and door rail, prepared for floor bearing, 20 mm

## Please always indicate when ordering:

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	<b>Lower base rail</b> prepared for floor bearing	<b>*40.707/40.807</b>
	<b>Lower base rail</b> with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin, <b>prepared for floor bearing</b>	<b>*40.717/40.817</b>
	<b>Additional module with floor locking lock</b> <b>prepared for round cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin, <b>prepared for floor bearing</b>	<b>*40.768/40.868</b>
	<b>Additional module with side locking lock</b> , <b>prepared for Europrofile cylinder</b> , double throw, <b>prepared for floor bearing</b>	<b>*40.717/40.827</b>

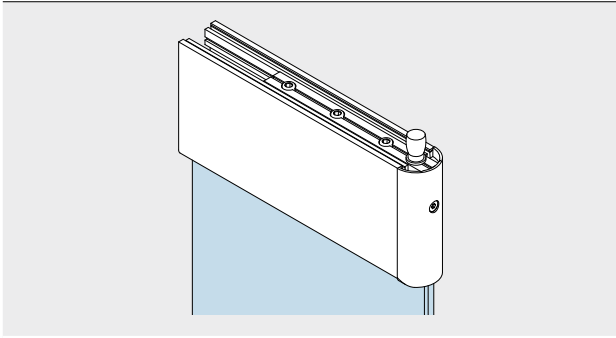
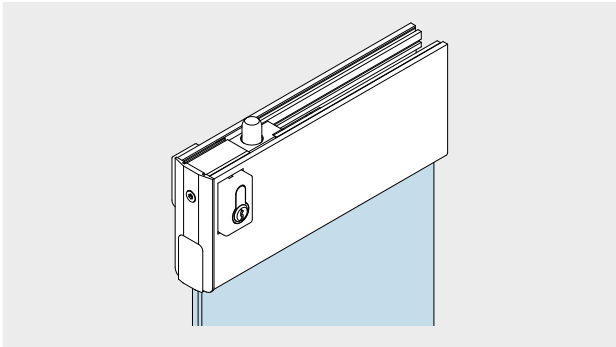
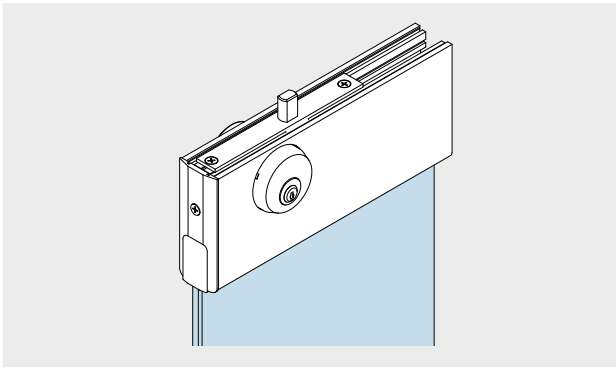
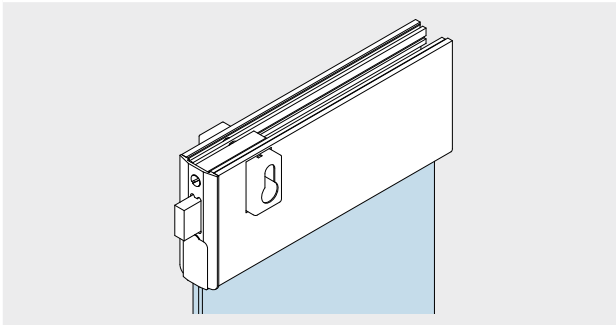
\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

**Complete, for 10 mm glass thickness**

Pivot point dimension for combination door rail and door rail, prepared for floor bearing, 20 mm

**Please always indicate when ordering:**

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	<b>Upper base rail</b> with 15 mm Ø pivot pin, A version without pivot-pin is also possible, please specify when ordering.	<b>*40.704/40.804</b>
	<b>Additional module and top locking lock, prepared for Europrofile cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin	<b>*40.714/40.814</b>
	<b>Additional module with top locking lock prepared for round cylinder</b> , single throw with corrosion resistant bolt and hardened safety roll pin	<b>*40.766/40.866</b>
	<b>Additional module with side locking lock, prepared for Europrofile cylinder</b> , double throw	<b>*40.724/40.824</b>

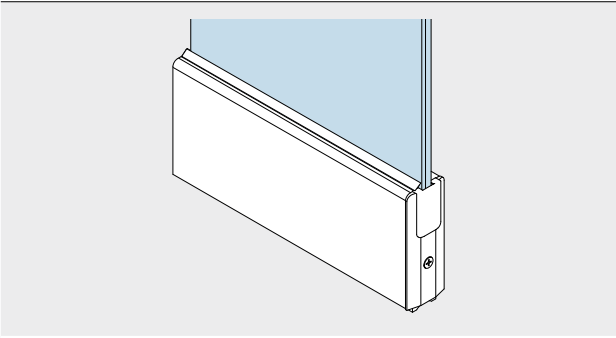
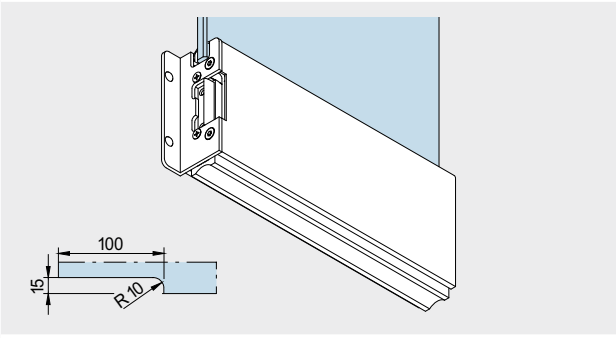
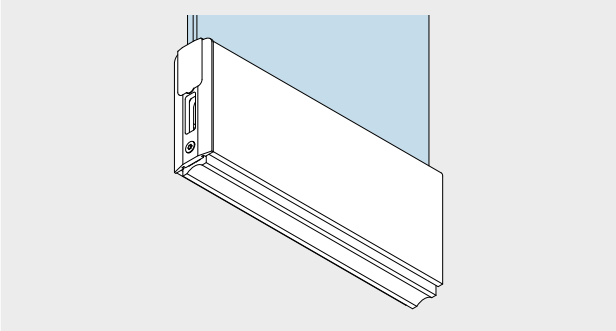
\* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

# Rails for side panel

Complete, for 10 mm glass thickness

Please always indicate when ordering:

- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

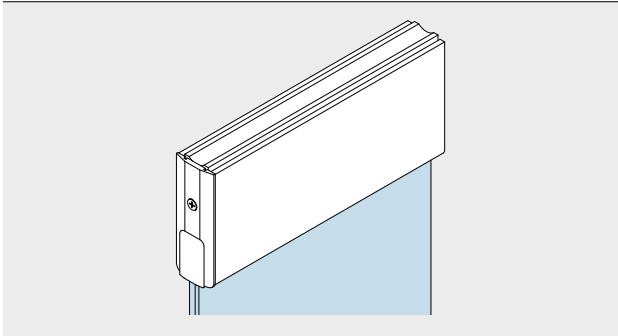
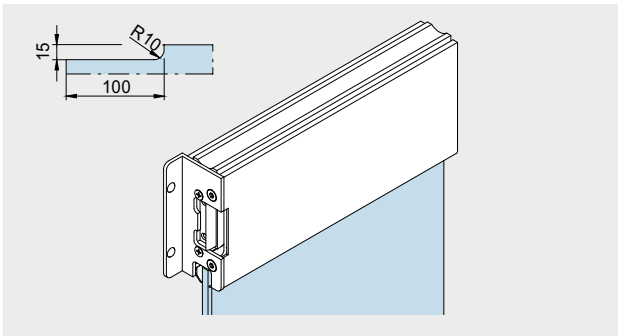
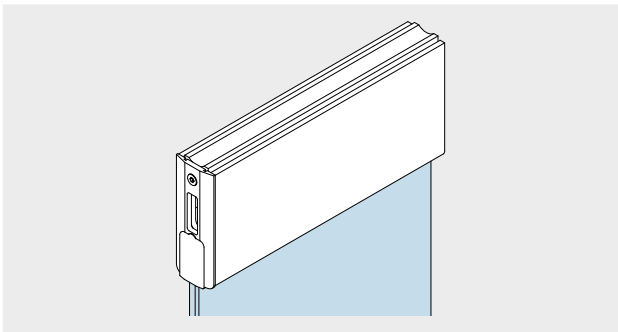
	Product description	Art. No.
	<b>Lower base rail for side panel,</b> up to approx. 6,000 mm long with rail filler insert 7 mm	<b>40.901</b>
	<b>Additional module with electric strike release</b> (standard: fail secure function, 6 to 12 V -/~), door width up to max. 1,200 mm (> 1,200 mm on request)	<b>*40.911/40.913</b>
	<b>Additional module with strike-box for side bolt locking,</b> door width up to max. 1,200 mm (> 1,200 mm on request)	<b>40.915</b>

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.



**Please always indicate when ordering:**

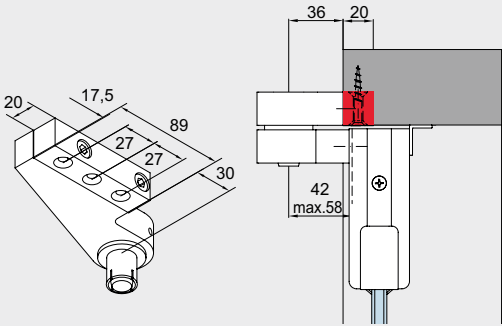
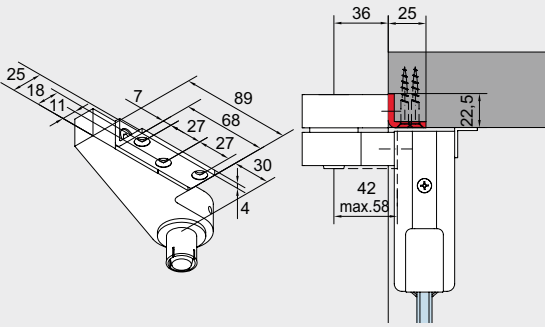
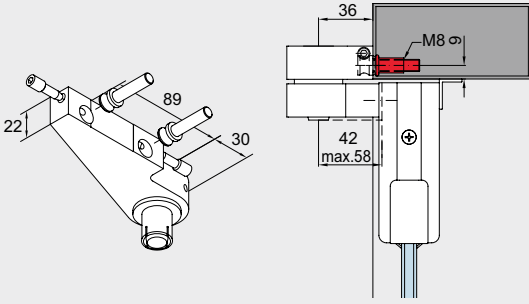
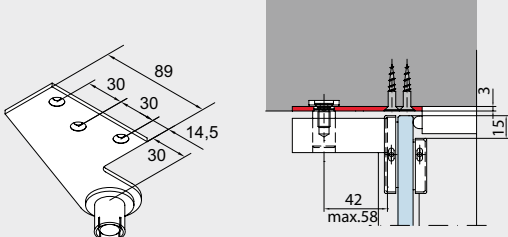
- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	<b>Upper base rail für Seitenteil,</b> up to approx. 6,000 mm long with rail filler insert 3 mm	<b>40.902</b>
	<b>Additional module with electric strike release</b> (standard: fail secure function, 6 to 12 V -/~)	<b>*40.912/40.914</b>
	<b>Additional module with strike-box for side bolt locking</b>	<b>40.916</b>

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

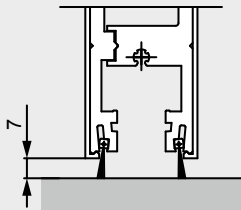
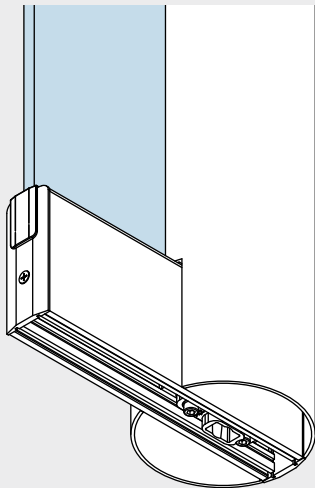
# Top centre frame portion with top door rail ES

in combination with patch fittings see chapter EA

	Product description	Art. No.
	<b>Frame top centre</b> with fixing block	<b>02.150</b>
	<b>Frame top centre</b> with angle bracket	<b>02.151</b>
	<b>Frame top centre</b> with special wedge screw fixings  Drill jig:	<b>*02.152/02.153</b>  <b>8.02.081.001.50</b>
	<b>Frame top centre</b> AT 212 GSR with fixing plate	<b>*02.340/02.341</b>

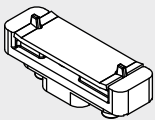
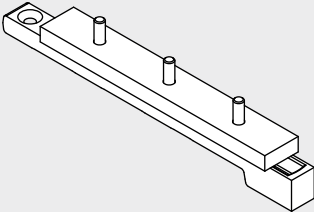
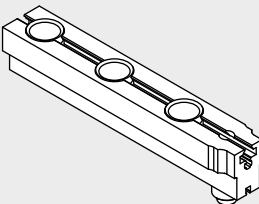
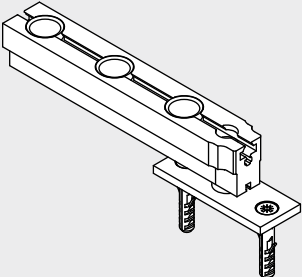
\* Left / right hand (illustration shows right hand)  
are determined by view from hanging side.

## Special accessories and special inserts for door rails

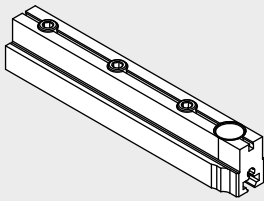
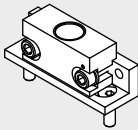
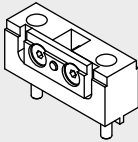
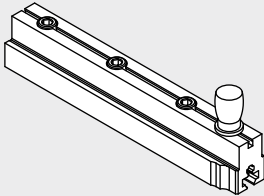
	Product description	Art. No.
	<p><b>Double sealing brush</b> for door rails (also in the area of inserts, locks, etc.)</p> <p>stock length 2 m (= 1 coil)</p>	<p><b>40.072</b> Sealing brush 1 St = 2m</p>
	<p><b>Aluminum round profile</b> for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings* or door rails 106 mm.</p> <p>Please indicate:</p> <ul style="list-style-type: none"> <li>• Panel height (max. 3,000 mm, higher dim. on request)</li> <li>• Required preparation of the profile for top and bottom fittings</li> </ul> <p>fixed length</p> <p>stock length 6,000 mm (not prepared) stock length 3,000 mm (not prepared)</p> <p>Weight in kg/m: Aluminum 4.744</p>	<p><b>03.380</b></p> <p><b>03.381</b> <b>03.382</b></p>

# Special accessories and special inserts for door rails

## Bottom inserts

	Produktbeschreibung	Art.-Nr.
	<b>Bottom insert ES</b> for floor spring spindle profile or round pivot 14 mm Ø, (floor spring dormakaba BTS or floor bearing <b>Art. No. 01.106 and 01.107), stainless steel,</b> 55/65 mm pivot point <b>max. door weigh 150 kg,</b> <b>max. door widthe 1,300 mm</b>	<b>40.071</b>
	<b>lower steel door lever ES</b> in forged steel special edition, mounted in door rails, to suit floor spring spindles. (Also suitable for floor bearing 04.602, 04.603. Not suitable for floor bearing with round pivot.) For centre hung doors <ul style="list-style-type: none"> <li>• normal frequented doors,  <b>max. door weight 200 kg,</b>              max. door width 1,400 mm</li> <li>• high frequented doors,  <b>max. door weight 150 kg,</b>              max. door width 1,200 mm</li> </ul> Pivot point either 20/55/65 mm <b>(please specify with order)</b>	<b>40.567</b>
	<b>Frame bottom centre ES,</b> aluminum, to suit floor bearings 01.106 and 01.107, 20/55/65 mm pivot point, <b>max. door weight 80 kg</b>	<b>40.565</b>
	<b>Screw-on floor bearing for damp environment,</b> without floor recess, with inserts for door rails, <b>max. 110 kg,</b> for the standard pivot points 20, 55, 65 usable (infinitely variable)	<b>40.566</b>

## Upper insert

	Produktbeschreibung	Art.-Nr.
	<b>Upper insert ES</b> 20/55/65 mm pivot point, Aluminum	<b>40.564</b>
	<b>Upper split insert ES,</b> Aluminum, special, 55/65 mm pivot point not in standard door rail	<b>40.578</b>
	<b>Upper insert, galvanised steel, 65 mm pivot point, ES</b> for dormakaba RTS transom closer, zinc plated steel, 65 mm pivot point	<b>40.577</b>
	<b>Frame top centre ES</b> Aluminum, 20/55/65 mm pivot point	<b>40.563</b>

# Content

## TP/TA 76.5

134	<b>General information</b>
135	<b>Type illustrations</b>
138	<b>Components</b>
204	<b>Accessories</b>
226	<b>Safety-related information</b>



**TP/TA 76.5**

# TP/TA 76.5 – door rails which leave nothing to be desired

TP / TA 76.5 door and side panel rail coordinate in design, dimensions and finishes with all DORMA-Glas patch fittings. This creates the opportunity to specify fittings for the assembly which provide maximum protection and effective sealing of the lower glass edges. The provision of door rails allows the installation of extremely heavy-duty and wide doors.

## **Tamper resistant, with integral locks**

The robust base rails are screwed together from alternate sides of the door at 150 mm centres. This makes unauthorised removal of the rail virtually impossible. All door rails are available with integral locks, prepared for profile cylinders and with security rosettes, or prepared for certain lever locks.

## **Special security- and quality characteristics**

The particular feature of the locks with bottom or top locking bolt is a special corrosion and abrasion resistant bolt with integrated safety roll pin (hardened). By this the locks comply to DIN 18251, class 3 (according to type testing\*) and the highest corrosion resistance according to EN 1670, class 4 is achieved. Furthermore the lock was tested successfully by a neutral testing institute with 500,000 latch and 100,000 locking bolt operating cycles.

## **Easy door adjustment – especially whilst hanging**

Because TP / TA 76.5 rails are a screw/clamp system, they have a great advantage over other systems. The rail can be adjusted up and down, and also side to side, to compensate for irregularities in the door opening.

Also, the clip-on rail cover has advantages. Because the door can be hung and secured without it, the covers need not be fixed until the wet trades have finished and the cleaners have been through.



## **No glass preparation, firm fixing**

DORMA-Glas has an intimate knowledge of the special properties of glass as a building material. This has led to the design of rails requiring no glass preparation – no holes, no cut-outs. Carefully considered and positive measures have been taken to create the maximum clamping surface with optimum clamping efficiency.

## **Length to order, to suit 10 mm or 8 mm and 12 mm**

The door rail is 76.5 mm high and available in custom lengths. As standard, the door rail is prepared with gaskets for 10 mm glass thickness. However, it can also be ordered with gaskets for 8 or 12 mm.

## **Variable pivot point and absolute pinch free on door rails for centre hung doors TP**

All the inserts for door rails in the TP / TA range have been designed and manufactured to give two options in the pivot point distance from the sidepanel or frame. It can be either 55 mm or 65 mm (distance from pivot point to door edge – 53 mm and 63 mm respectively). In order to change from the standard dimension of 65 mm to 55 mm, the standard insert is unscrewed from the patch, rotated through 180°, and refixed position. At 65 mm pivot point and the use of a special round profile (page 148) doors can be built pinch free (constant air gap of 4 mm).

## **Reliability built in**

Quality materials and thorough workmanship mean that TP / TA 76.5 rails have the features necessary to meet the most demanding of specifications.

## **Short delivery times**

All standard articles as per price list are available ex-stock (factory). Specials will be prepared promptly.

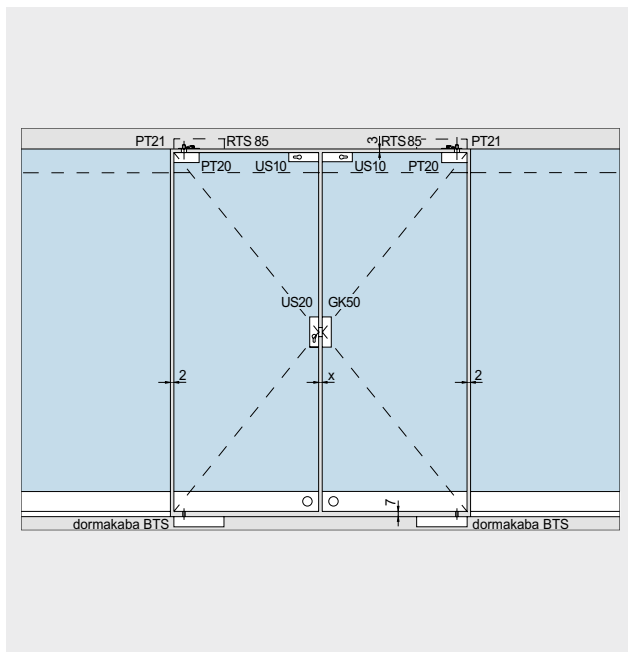
## **Finishes**

Special coatings are required at extreme environment conditions (i.e. coastal areas).

\*Extract from DIN 18251, class 3: type-test with 50,000 locking bolt operating cycles.



# Technical specifications



## Glass size – height:

### Rail height – 76.5 mm

Use of rail(s)	total door height less
bottom	56.5 mm
top	56.5 mm
bottom + top	113.0 mm

Please treat floor and ceiling clearances separately

## Gap required between pairs of doors:

### Offset hung doors:





Individual leaf width	X
over 1,000 mm	4 mm
1,000–600 mm	6 mm
600–400 mm	8 mm

### Centre hung doors:

X = 4 mm

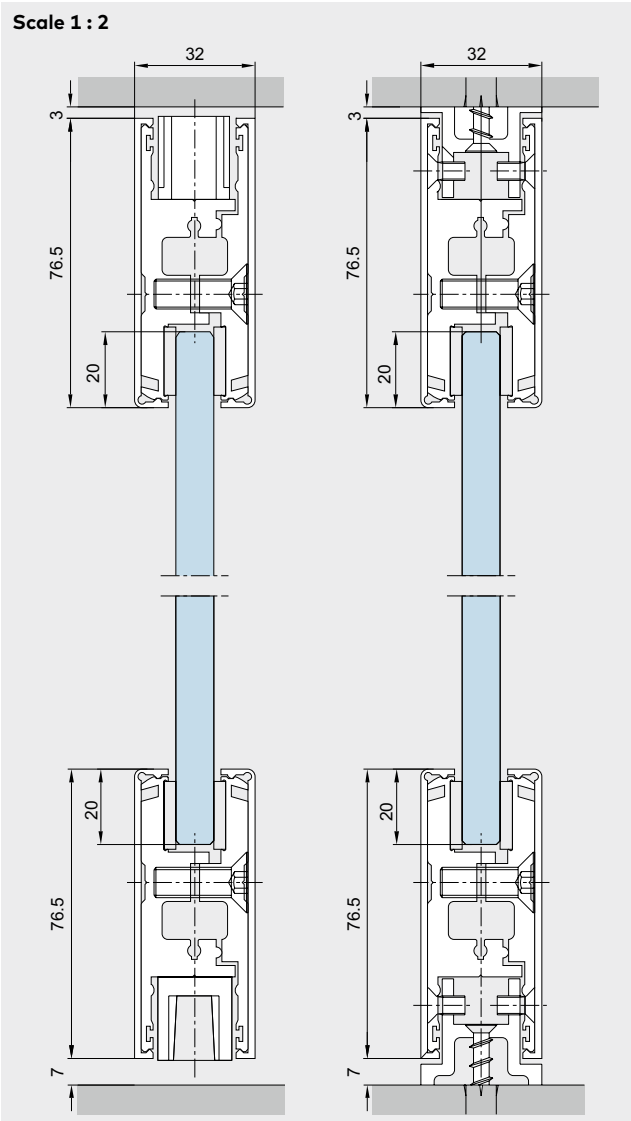
RTS = transom closer

## Maximum dimensions for use of bottom door rails in combination with top door rails or top patch fittings

	Panel type	Bottom door rail standard			Bottom door rail special type with bottom strap in forged steel			Comments
		weight kg	width mm	height mm	weight kg	width mm	height mm	
Door rails for centre hung doors, combined with...								*For high frequent-ed doors we generally recom-mend to use the bottom strap in forged steel with reduced max. measurements.
... Patch fittings UNIVERSAL	●	110	1,100	3,000	120	1,100	3,000	
... Door rails standard	●	120	1,100	3,000	120*	1,100*	3,000*	
Door rails for offset hung doors in toughened glass assemblies, combined with...								34 mm door stap for toughened glass assemblies
... Patch fittings EA	●	100	1,100	3,000				
... Door rails standard	●	100	1,100	3,000				
Door rails for offset hung doors in rebated frames (24 mm/26 mm rebate depth), combined with ...								40 mm/42 mm door stap for 24 mm/26 mm rebate depth
... Patch fittings EA	●	90	1,100	3,000				
... Door rails standard	●	90	1,100	3,000				
Door rails for offset hung doors in rebated frames (27 mm – 40 mm rebate depth), combined with ...								43 mm/58 mm door stap for 27 mm–40 mm rebate depth
... Patch fittings EA	●	80	1,000	3,000				
... Door rails standard	●	80	1,000	3,000				

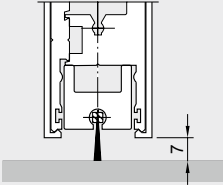
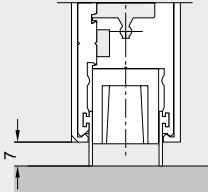
Torque for fixing screws: Screws M 8 : 20 Nm

# Rail cross sections



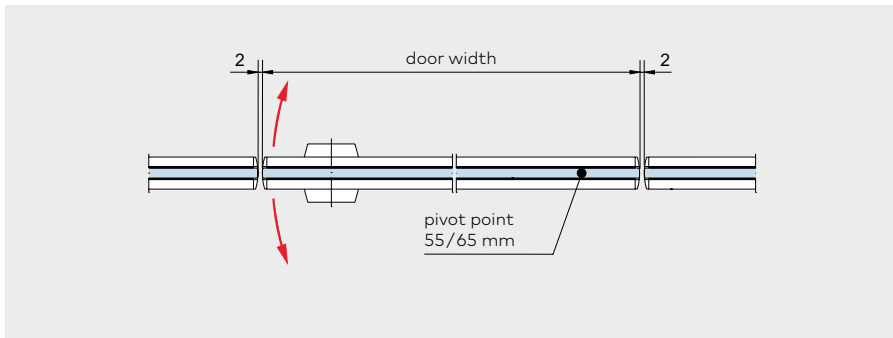
Door rails,  
76.5 mm high

Side panel rails,  
76.5 mm high

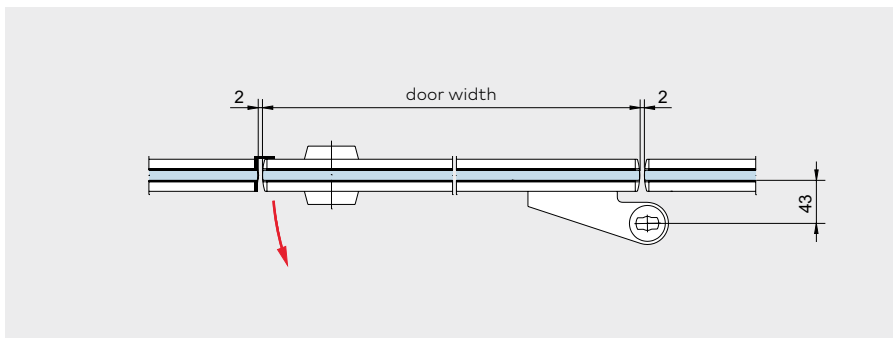
Product description		Art. No.
	<b>AGILE Aluminum profile brush</b> seal to prevent draughts and energy loss (not in the area of inserts, locks, etc.), connected with door rail at manufacturer  Weight in kg/m: 0.753	<b>04.600</b>
	<b>Rubber sealing</b> for door rails (also in the area of inserts, locks, etc.) fixed length stock length 200 m (= 1 coil)  Weight in kg/m: 0.099	<b>04.607</b> <b>04.608</b>

# Construction details

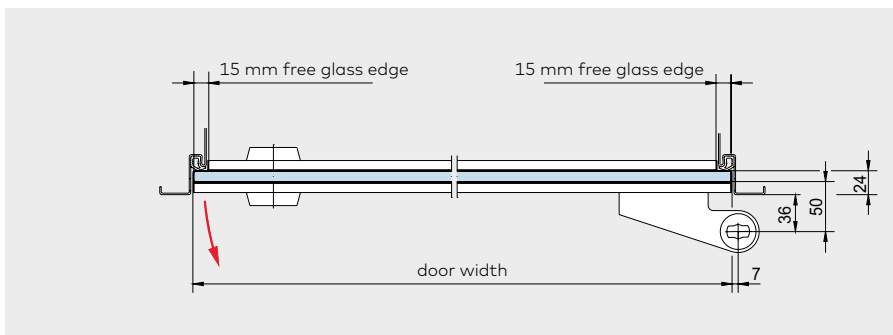
Centre hung doors



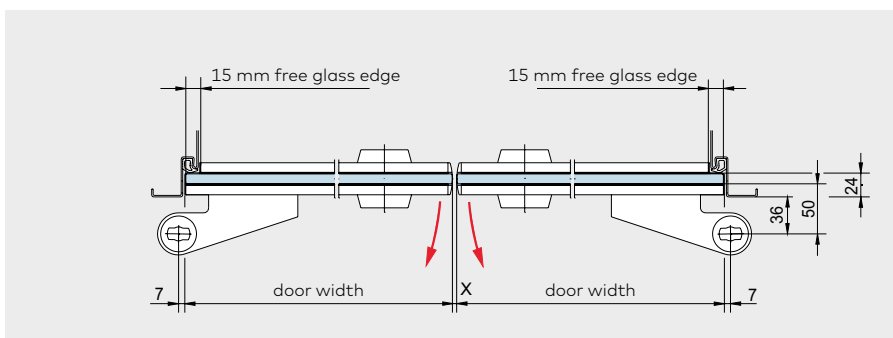
Offset hung door in toughened glass assembly



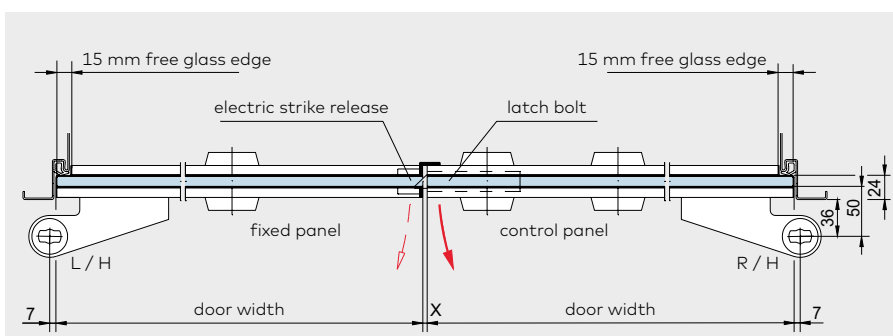
Offset hung door in rebated frame with 24 mm rebate depth



Pair of offset hung doors in rebated frame with 24 mm rebate depth



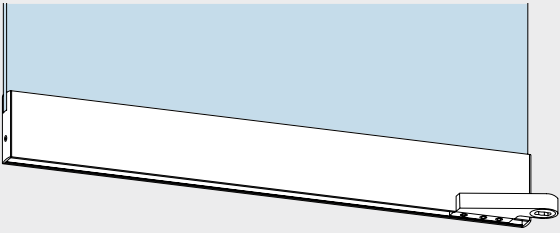
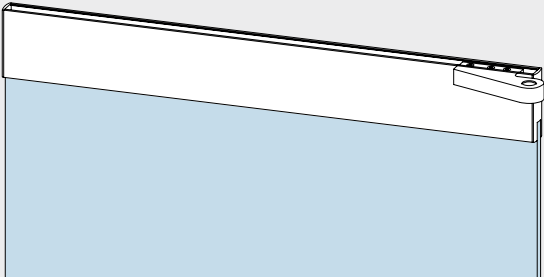
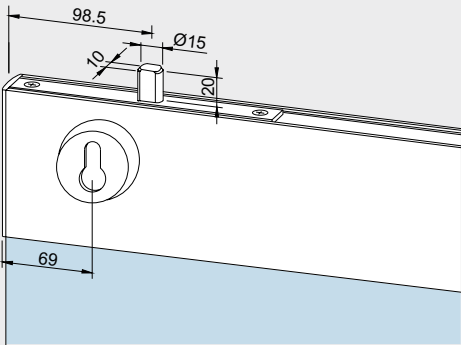
Pair of offset hung doors in rebated frame with 24 mm rebate depth (also available with inserts for centre hung doors), with electric strike release and latch bolt



X = Gap, see table page 135.

# Door rails for offset hung doors in toughened glass assemblies without rebated frames

Complete, for 10 mm glass thickness, strap 34 mm, without free glass edges, pivot point to glass surface 43 mm

	Product description	Art. No.
	<b>Bottom rail</b>  76.5 mm:  Weight in kg/m: Aluminum 4.257 Stainless steel 5.555	<b>*04.031/04.033</b>
	<b>Top rail</b>  76.5 mm:  Weight in kg/m: Aluminum 4.187 Stainless steel 5.522	<b>*04.032/04.034</b>
	...with top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.522 Stainless steel 5.972	<b>*04.052/04.054</b>

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

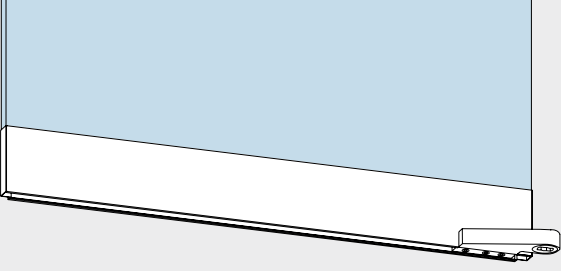
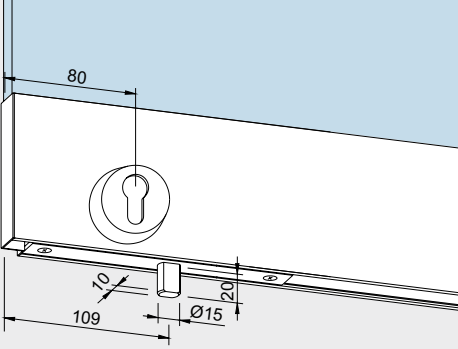
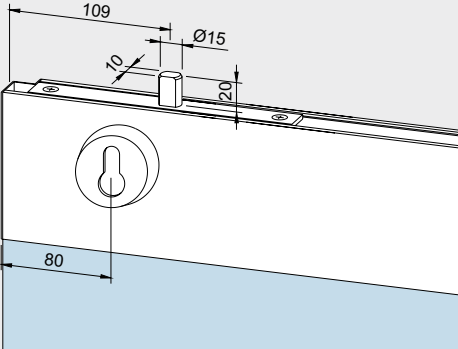
# Door rails for offset hung doors in rebated frames

## With 24 mm rebate depth

Complete, for 10 mm glass thickness, strap 40 mm, with free glass edge left and right, pivot point to glass surface 50 mm

Also available for rebate depths up to 40 mm.

If required, please talk to our Application Engineering people.

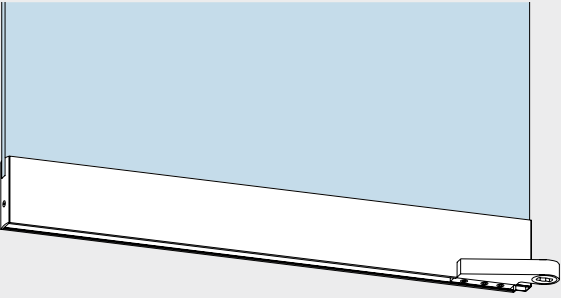
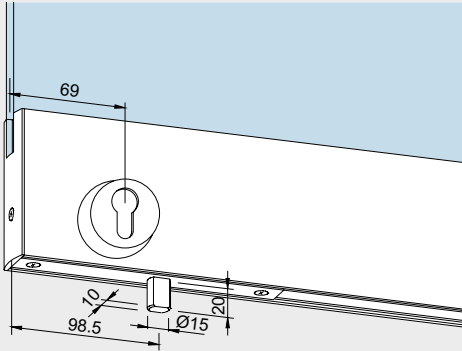
	Product description	Art. No.
	<b>Bottom rail</b>  76.5 mm:  Weight in kg/m: Aluminum 4.181 Stainless steel 5.407	<b>*04.035/04.037</b>
	...with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.516 Stainless steel 5.857	
	<b>Top rail</b>  <b>76.5 mm:</b>  Weight in kg/m: Aluminum 4.111 Stainless steel 5.374	<b>*04.036/04.038</b>
	...with top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.446 Stainless steel 5.824	

\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

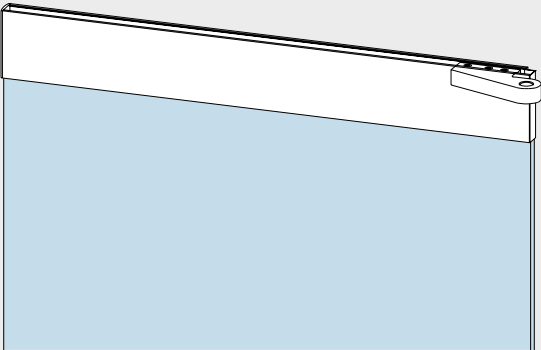
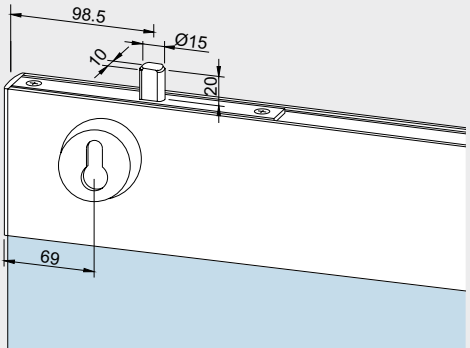
# Door rails for double offset hung doors in rebated frames

## With 24 mm rebate depth

Complete, for 10 mm glass thickness, strap 40 mm, with 15 mm free glass edge of hanging stile, pivot point to glass surface 50 mm

	Product description	Art. No.
	<b>Bottom rail</b>  76.5 mm:  Weight in kg/m: Aluminum 4.219 Stainless steel 5.482	<b>*04.039/04.041</b>
	...with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.554 Stainless steel 5.932	<b>*04.059/04.061</b>

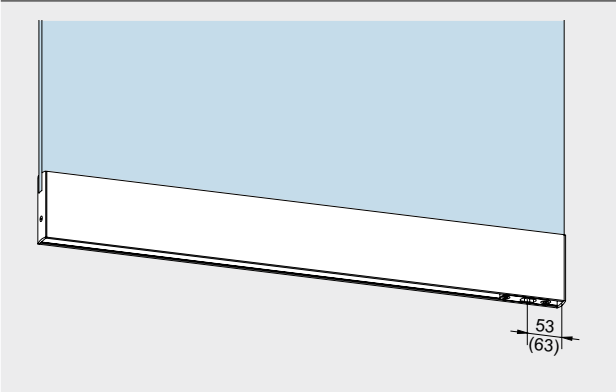
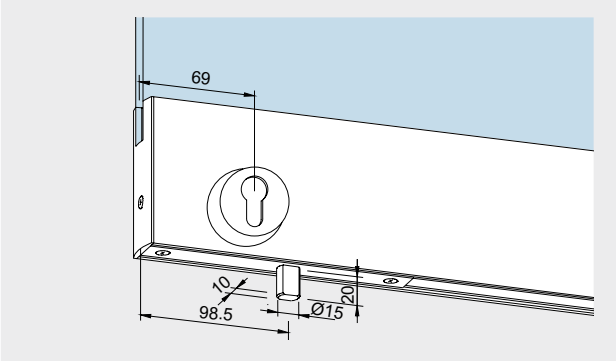
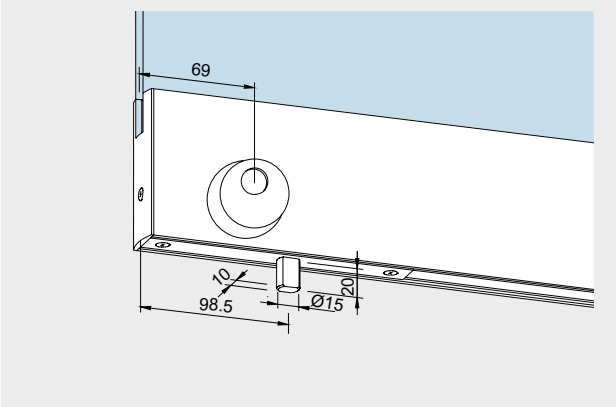
\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

	Product description	Art. No.
	<b>Top rail</b>  76.5 mm:  Weight in kg/m: Aluminum 4.149 Stainless steel 5.449	<b>*04.040/04.042</b>
	...with top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.484 Stainless steel 5.899	
		

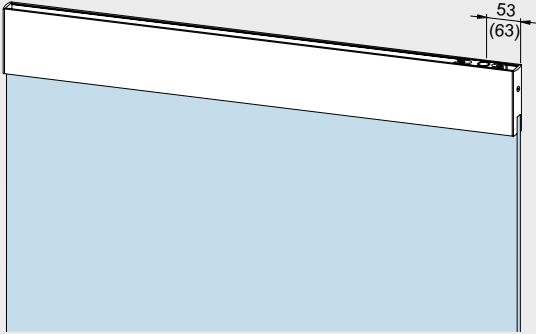
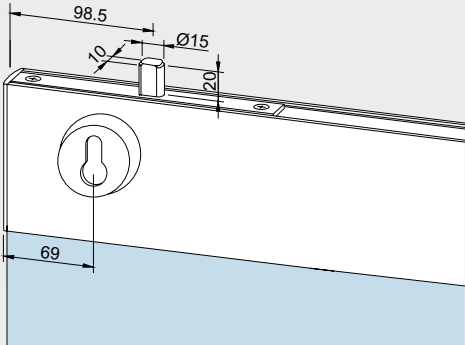
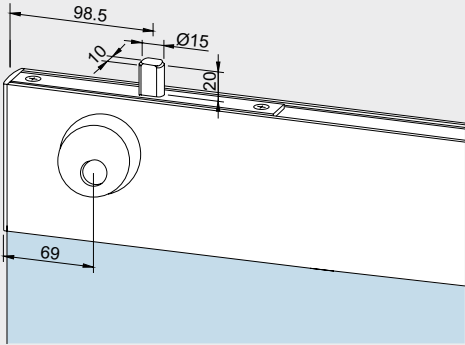
\* Left / right hand (illustration shows right hand) are determined by view from hanging side.

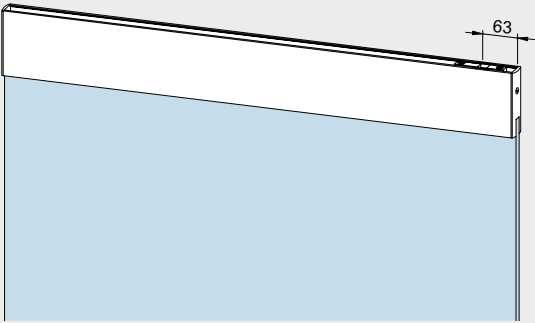
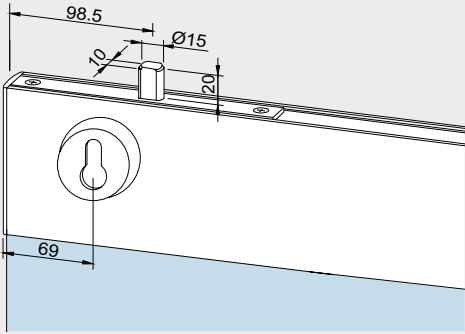
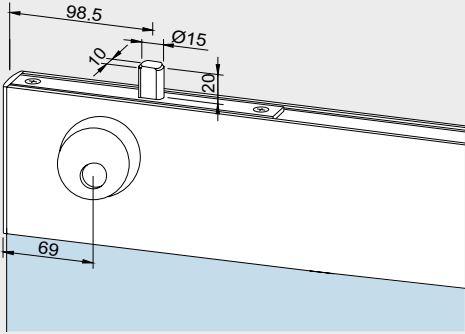
# Door rails for double-action doors

**Pivot point 55/65 mm**  
Complete, for 10 mm glass thickness

	Product description	Art. No.
	<p><b>Bottom rail</b> with stainless steel insert to suit floor spring spindle or round pivot 14 mm Ø</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.029 Stainless steel 4.833</p>	<b>04.001</b>
	<p>...with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.364 Stainless steel 5.283</p>	<b>04.011</b>
	<p>...with floor locking lock, prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.364 Stainless steel 5.283</p>	<b>04.063</b>



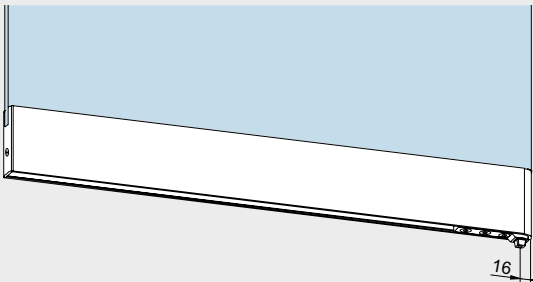
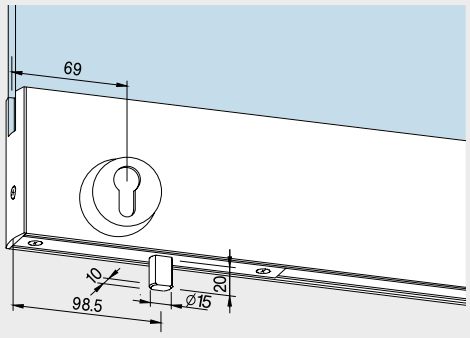
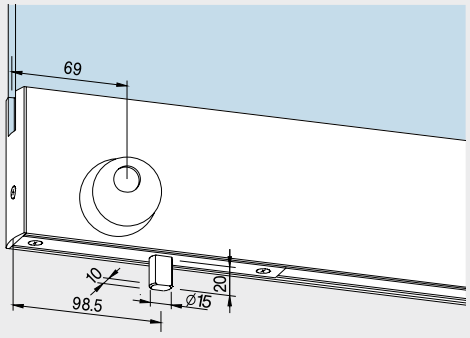
	Product description	Art. No.
	<b>Top rail</b> with insert to take 15 mm Ø pivot pin  76.5 mm:  Weight in kg/m: Aluminum 3.877 Stainless steel 4.681	<b>04.002</b>
	....and top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.212 Stainless steel 5.131	<b>04.012</b>
	...with top locking lock prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.212 Stainless steel 5.131	<b>04.063</b>

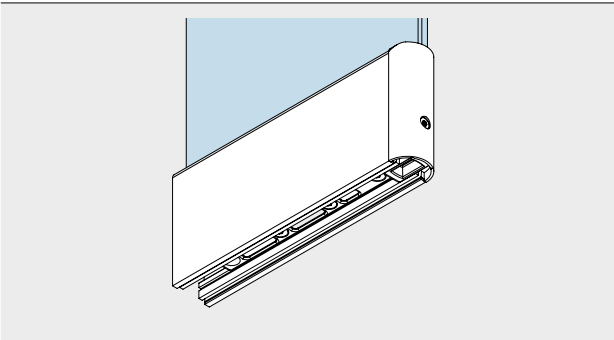
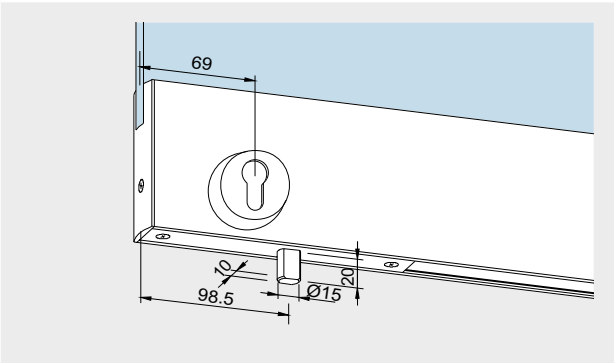
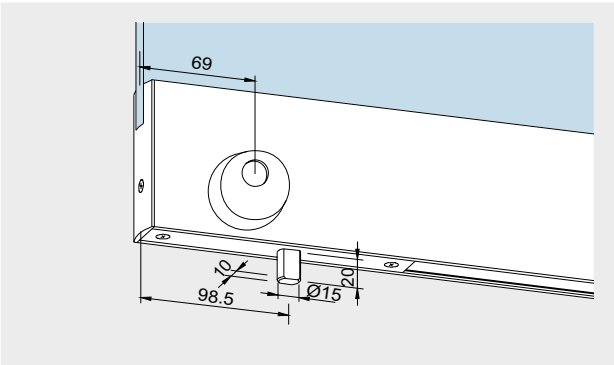
	Product description	Glass thickness	Art. No.				
	<p><b>Top rail</b> with insert for RTS transom closer</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table><tr><td>Aluminum</td><td>4.043</td></tr><tr><td>Stainless steel</td><td>4.847</td></tr></table>	Aluminum	4.043	Stainless steel	4.847		<b>04.006</b>
Aluminum	4.043						
Stainless steel	4.847						
	<p>...and top locking lock, prepared for Euro- profile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table><tr><td>Aluminum</td><td>4.378</td></tr><tr><td>Stainless steel</td><td>5.297</td></tr></table>	Aluminum	4.378	Stainless steel	5.297		<b>04.016</b>
Aluminum	4.378						
Stainless steel	5.297						
	<p>...with top locking lock prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table><tr><td>Aluminum</td><td>5.145</td></tr><tr><td>Stainless steel</td><td>6.207</td></tr></table>	Aluminum	5.145	Stainless steel	6.207		<b>04.067</b>
Aluminum	5.145						
Stainless steel	6.207						

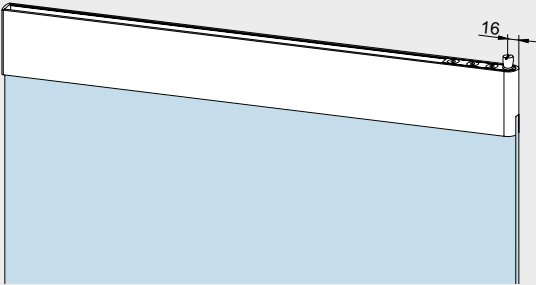
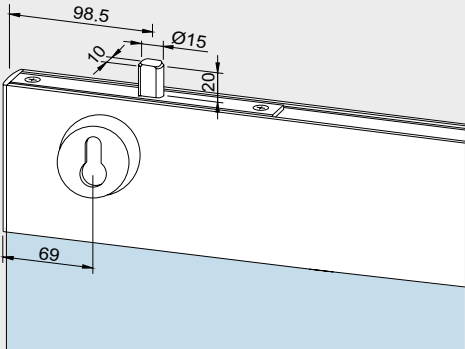
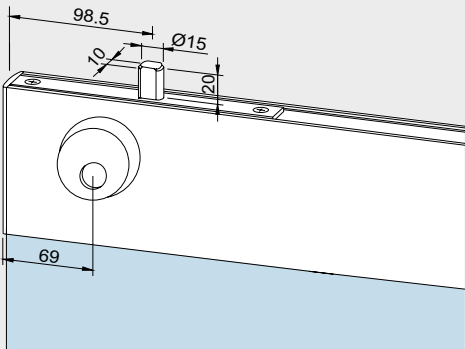
# Door rails for double-action doors

## Pivot point 18 mm

Complete, for 10 mm glass thickness

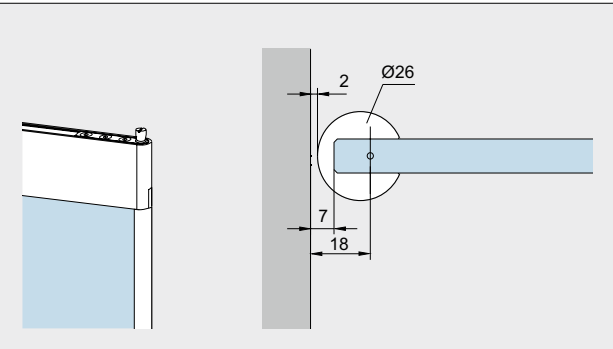
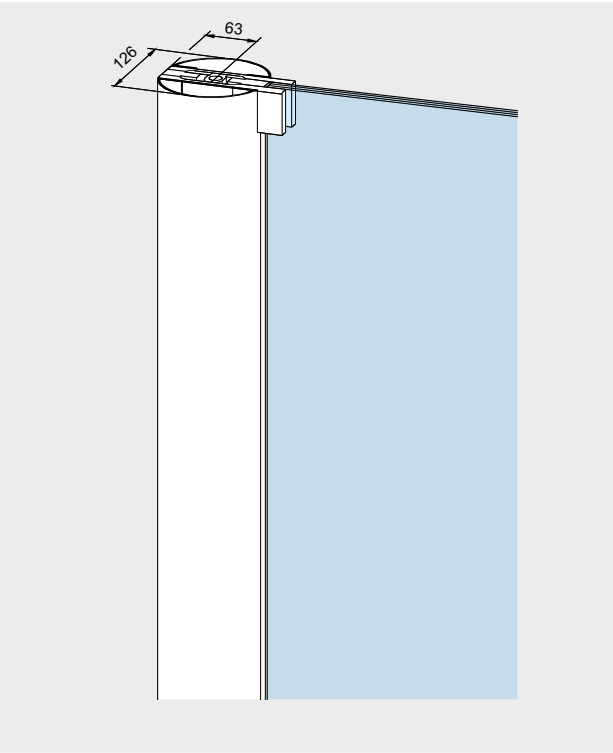
	Product description	Art. No.
	<b>Bottom rail</b> with floor spring spindle insert  76.5 mm:  Weight in kg/m: Aluminum 4.126 Stainless steel 4.824	<b>04.003</b>
	...with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pinn  76.5 mm:  Weight in kg/m: Aluminum 4.461 Stainless steel 5.274	<b>04.013</b>
	...with floor locking lock prepared for round cylinder, single throw (not illus- trated) with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 5.228 Stainless steel 6.280	<b>04.065</b>

	Product description	Art. No.				
	<p>...prepared for floor bearing</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table><tr><td>Aluminum</td><td>3.898</td></tr><tr><td>Stainless steel</td><td>4.606</td></tr></table>	Aluminum	3.898	Stainless steel	4.606	<b>04.007</b>
Aluminum	3.898					
Stainless steel	4.606					
	<p><b>Bottom rail</b></p> <p>with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin, <b>prepared for floor bearing</b></p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table><tr><td>Aluminum</td><td>4.243</td></tr><tr><td>Stainless steel</td><td>5.056</td></tr></table>	Aluminum	4.243	Stainless steel	5.056	<b>04.017</b>
Aluminum	4.243					
Stainless steel	5.056					
	<p>...with floor locking lock</p> <p>prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin, <b>prepared for floor bearing</b></p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table><tr><td>Aluminum</td><td>4.243</td></tr><tr><td>Stainless steel</td><td>5.056</td></tr></table>	Aluminum	4.243	Stainless steel	5.056	<b>04.068</b>
Aluminum	4.243					
Stainless steel	5.056					

	Product description	Art. No.
	<b>Top rail</b> with 15 mm Ø pivot pin  76.5 mm:  Weight in kg/m: Aluminum 3.908 Stainless steel 4.606	<b>04.004</b>
	...and top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.243 Stainless steel 5.056	<b>04.014</b>
	...with top locking lock prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin  76.5 mm:  Weight in kg/m: Aluminum 4.243 Stainless steel 5.056	<b>04.066</b>

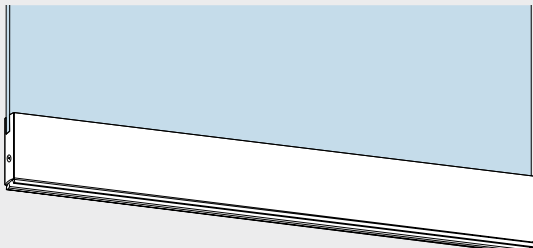
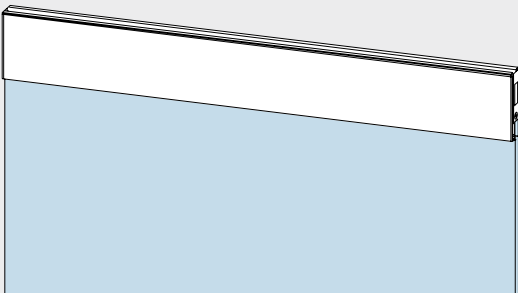
# Radiused edging strip

Acryl, transparent, to clamp onto free glass edge. For optimal pinch protection. For application with door rails with 18 mm pivot point.

	Product description	Glass thickness	Art. No.
	<b>Radiused edging strip</b> Please indicate door height and type of fitting with order.		
	up to 4,500 mm length fixed length: 2,250 mm	10 mm 10 mm	<b>01.231</b> <b>01.230</b>
	<b>Notice:</b> When radiused edging strip is used the following glass measurement is valid = door rail width – 5 mm. TSG only.		
	<b>Aluminum round profile</b> for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings or door rails (76.5 mm).		<b>03.380</b>
	Please indicate: • Panel height (max. 2,500 mm, higher dimension on request) • Required preparation of the profile for top and bottom fittings		
	<b>Aluminum round profile,</b> as above, stock lenght 6,000 mm (unprepared)		<b>03.381</b>
	<b>Aluminum round profile,</b> as above, stock lenght 3,000 mm (unprepared)		<b>03.382</b>
	<b>Aluminum round profile,</b> as above, stock lenght 2,800 mm (unprepared)		<b>03.383</b>
	Weight in kg/m: Aluminum		4.744

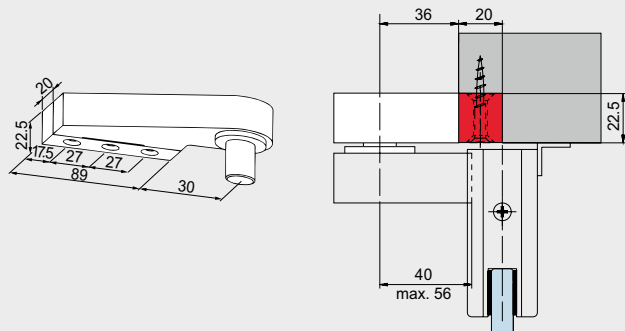
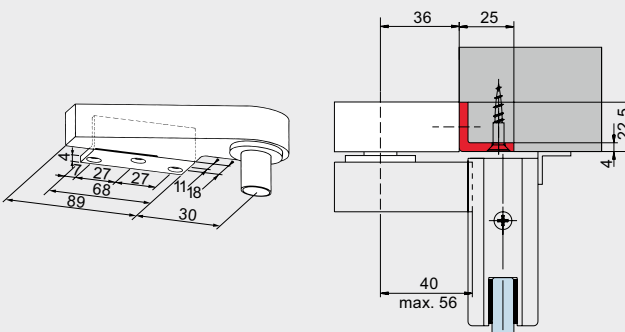
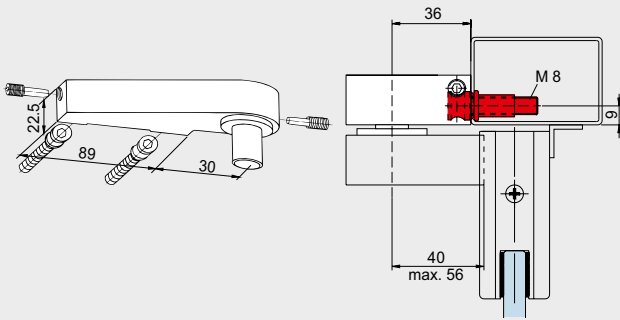
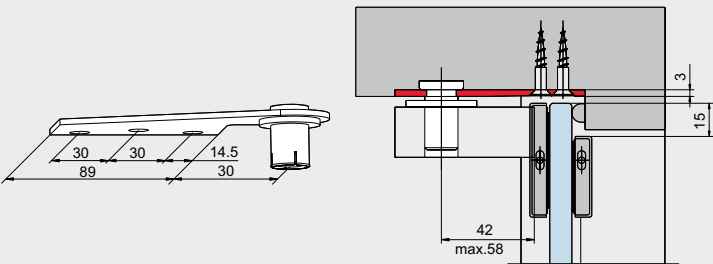
# Rails for side panel

complete, for 10 mm glass thickness

	Product description	Art. No.
	<b>Bottom rail for side panel,</b> up to approx. 6,000 mm long with rail filler insert 7 mm  100 mm:  Weight in kg/m: Aluminum 5.604 Stainless steel 6.494  76.5 mm:  Weight in kg/m: Aluminum 4.504 Stainless steel 5.273	<b>04.201</b>
	<b>Top rail for side panel,</b> up to approx. 6,000 mm long with rail filler insert 3 mm  100 mm:  Weight in kg/m: Aluminum 5.441 Stainless steel 6.331  76.5 mm:  Weight in kg/m: Aluminum 4.341 Stainless steel 5.110	<b>04.202</b>

# Top centre frame portion

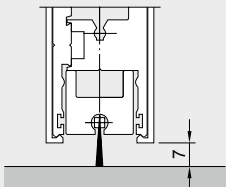
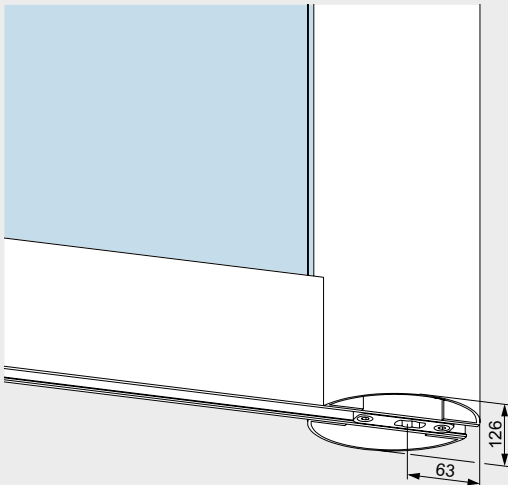
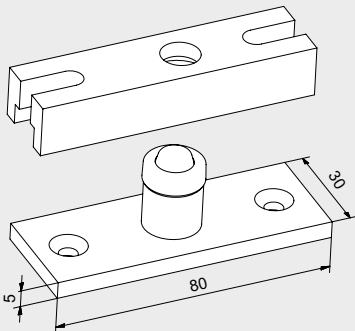
with patch fittings see chapter EA

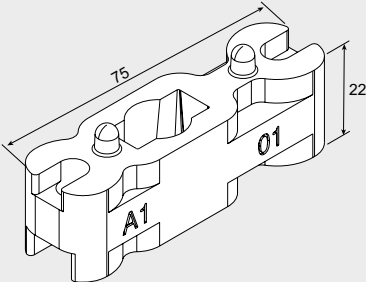
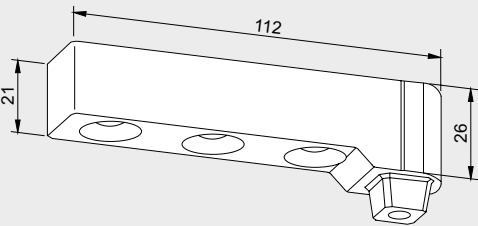
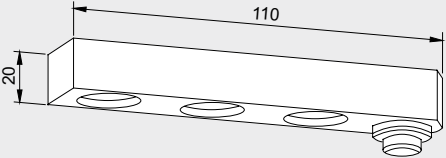
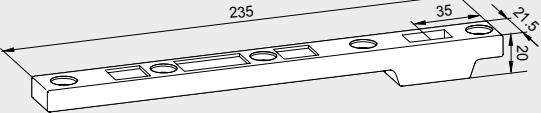
	Product description	Art. No.
	<b>Frame top centre</b> with fixing block  Weight in kg/m: Aluminum 0.471	<b>02.150</b>
	<b>Frame top centre</b> with angle bracket  Weight in kg/m: Aluminum 0.453	<b>02.151</b>
	<b>Frame top centre</b> with special wedge screw fixings  Weight in kg/m: Aluminum 0.390  Drill jig:	<b>*02.152/02.153</b>     <b>8.02.081.001.50</b>
	<b>Frame top centre</b> AT 212 GSR with fixing plate  Weight in kg/m: Stainless steel 0.215	<b>*02.340/02.341</b>

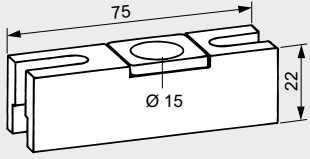
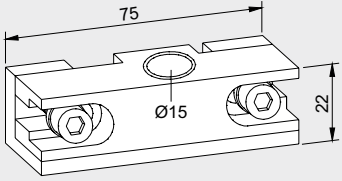
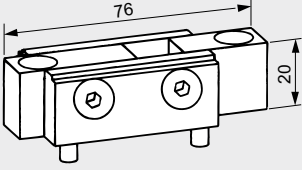
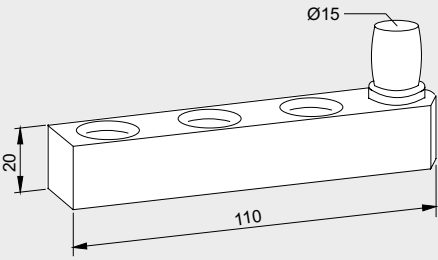
\* Left / right hand (illustration shows right hand)  
are determined by view from hanging side.



# Special accessories and special inserts for door rails

	Product description	Art. No.
	<b>Aluminum profile with brush seal</b> to prevent draughts and energy loss (not in the area of inserts, locks, etc.), connected with door rail at manufacturer  Weight in kg/m: 0.753	<b>04.600</b>
	<b>Rubber sealing</b> for door rails (also in the area of inserts, locks, etc.)  fixed length stock length 200 m (= 1 coil)  Weight in kg/m: 0.099	<b>04.607</b> <b>04.608</b>
	<b>Aluminum round profile</b> for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings* or door rails (76.5 mm or 100 mm). Please indicate: <ul style="list-style-type: none"> <li>• Panel height (max. 3,000 mm, higher dim. on request)</li> <li>• Required preparation of the profile for top and bottom fittings</li> </ul> fixed length	<b>03.380</b>
	Weight in kg/m: Aluminum 4.744	
	stock length 6,000 mm (not prepared) stock length 3,000 mm (not prepared)	<b>03.381</b> <b>03.382</b>
	<b>Screw-on floor bearing for damp environment,</b> without floor recess, with inserts for door rails, max. 80 kg  Weight in kg/m: 0.193	<b>01.136</b>
		

	Product description	Art. No.
	<p><b>Bottom insert</b> for floor spring spindle profile or round pivot 14 mm Ø, (floor spring dormakaba BTS or floor bearing Art. No. 01.106 and 01.107), stainless steel, 55/65 mm pivot point, max. door weight 80 kg</p> <p>Weight in kg/m: 0.243</p>	<b>04.604</b>
	<p><b>Bottom strap,</b> steel, zinc plated, with spindle insert to suit floor springs, 18 mm pivot point, max. door weight 80 kg</p> <p>Weight in kg/m: 0.349</p>	<b>804.167.001.55</b>
	<p><b>Bottom strap,</b> aluminum, to suit floor bearings 01.106 and 01.107, 18 mm pivot point, max. door weight 80 kg</p> <p>Weight in kg/m: 0.129</p>	<b>804.060.002.50</b>
	<p><b>Bottom strap</b> in forged steel special edition, mounted in door rails, to suit floor spring spindles. (Also suitable for floor bearing 04.602, 04.603. Not suitable for floor bearing with round pivot.) For centre hung doors</p> <ul style="list-style-type: none"> <li>• normal frequented doors, max. door weight 150 kg, max. door width 1,400 mm</li> <li>• high frequented doors, max. door weight 120 kg, max. door width 1,200 mm</li> </ul> <p>Pivot point either 55 or 65 mm (please specify with order).</p> <p>Weight in kg/m: 0.385</p>	<b>04.605</b>

	Product description	Art. No.
	<b>Top insert</b> 55/65 mm pivot point, Aluminum  Weight in kg/m: 0.091	<b>04.610</b>
	<b>Top insert, two part,</b> Aluminum, special, 55/65 mm pivot point not in standard door rail  Weight in kg/m: 0.088	<b>04.606</b>
	<b>Top insert</b> for RTS transom closer, zinc plated steel, 65 mm pivot point  Weight in kg/m: 0.240	<b>04.611</b>
	<b>Top strap</b> Aluminum, 18 mm pivot point  Weight in kg/m: 0.131	<b>804.060.001.50</b>

# Content

## MANET Pivoting door system Accessories and connection systems

156	<b>Sets</b>
160	<b>General information</b>
161	<b>Components</b>
164	<b>Connection elements</b>
168	<b>Glass preparation pivoting door system</b>
226	<b>Safety-related information</b>

All elements up to and including the pull handles are available in an elegant stainless steel finish. All the components are manufactured from the steel grade 1.4305 (approx. AISI 303) for normal interior applications.

**Note:** The products detailed in this brochure are exclusively intended for glass assemblies that do not require separate building regulations approval.



**MANET**

# MANET sets

The aesthetic elegance of the MANET concept is also available in the form of standardized sets for simple, fast planning of the more popular system types.

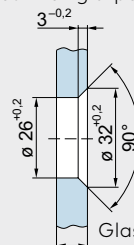
Optional accessories enable the individual sets to be semi-customized. The system components offer numerous adjustment possibilities in order to ensure problem-free installation of whichever door type – swing or single-action or double-action – is required. Wall abutment profiles may need to be provided (by others) for fixing overpanels and sidelights.



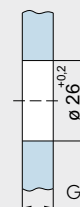
Pivoting fitting short type,  
max. door panel height 2,500 mm  
max. door panel width 1,200 mm  
max. door panel weight 80 kg

Pivoting fitting short type with intermediate tube,  
max. door panel height 2,500 mm  
max. door panel width 1,200 mm  
max. door panel weight 80 kg

Countersunk bore for countersunk single-point fixings      Cylindrical bore for clamping disc single-point fixings

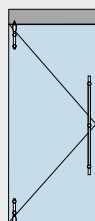


Glass thickness

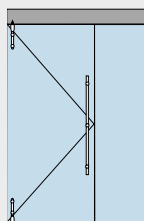


Glass thickness

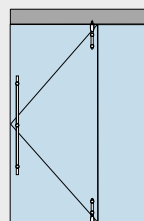
## Pivoting doors set 1



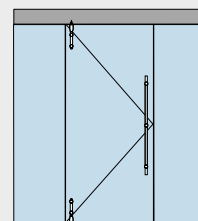
Construction 1 (1 set)



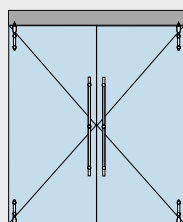
Construction 2 (1 set)



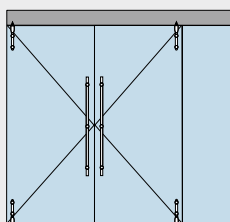
Construction 3 (1 set)



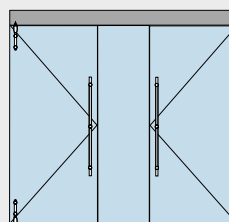
Construction 4 (1 set)



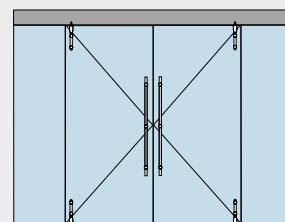
Construction 5 (2 sets)



Construction 6 (2 sets)

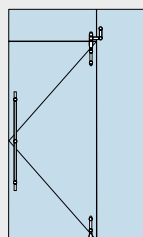


Construction 7 (2 sets)

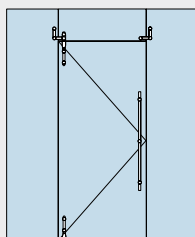


Construction 8 (2 sets)

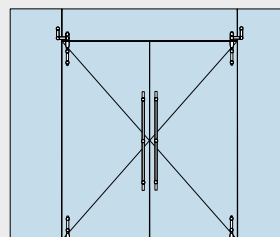
## Pivoting doors with overpanel and sidelight set 3



Construction 13 (1 set)



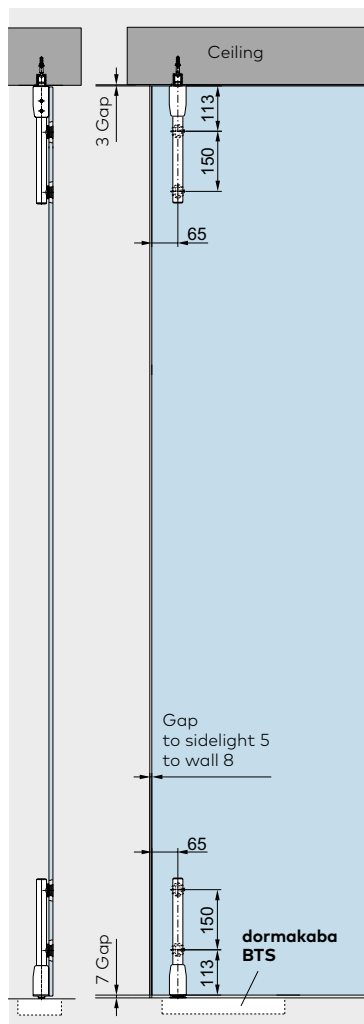
Construction 15 (1 set)



Construction 23 (2 sets)

# Set 1

## Pivoting door MANET without overpanel for 10 – 13.5 mm glass



Door weight 80 kg  
Door height max. 2,500 mm  
Door width max. 1,200 mm  
TSG 10/13.5 mm glass thickness

Product description	Art. No.
<b>Set 1</b> with pivot rod pair short type	
<b>Set 1 with single-point fixings countersunk</b> consisting of: pivot rod pair top/bottom, short type	<b>29.910</b>
including: 4 single-point fixings for pivot rods 1 pivot fitting top, 1 PT 25 pin, 15 mm Ø, with plug 1 pivot fitting bottom for dormakaba BTS/floor pivot	

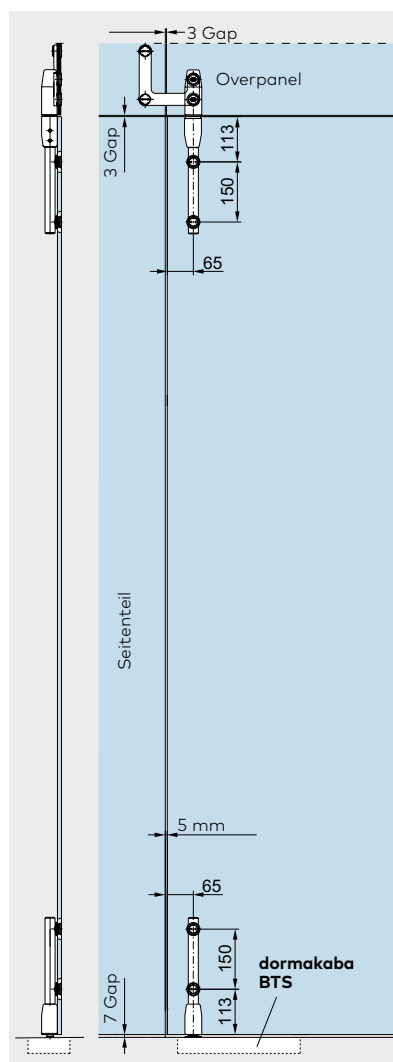
### Accessory options for Set 1

Pull handles	Length	Art. No.
Pull handles	350	<b>29.268</b>
(single-point fixing countersunk)	720	<b>29.271</b>
	1,240	<b>29.274</b>
	1,760	<b>29.277</b>
Pair of pull handles	350	<b>21.267</b>
	720	<b>21.270</b>
	1,240	<b>21.273</b>
	1,760	<b>21.276</b>
<b>Lock</b>		
Corner lock		<b>21.448</b>
Corner lock with rose on one lock side		<b>21.449</b>
Profile cylinder for corner lock 21.448/449		<b>14.206</b>
Eccentric bushing for corner lock 21.448/449		<b>05.194</b>
<b>Further accessories</b>		
Stop for pivoting door with ceiling mounting		<b>21.334</b>
Ceiling fixing (bearing function)		<b>29.337</b>
Floor pivot bearing		<b>01.106</b>
Assembling tool for MANET single-point fixings		<b>21.134</b>

For the requisite glass preparation please see pages 172 – 173

## Set 3

### Pivoting door MANET with overpanel for 10 – 13.5 mm glass



Door weight 80 kg  
Door height max. 2,500 mm  
Door width max. 1,200 mm  
TSG 10/13.5 mm glass thickness

Product description	Art. No.
<b>Set 3</b> with pivot rod pair short type	
<b>Set 3 with single-point fixings countersunk</b> consisting of: pivot rod pair top/bottom, short type	<b>29.914</b>
einschließlich: 4 single-point fixings for pivot rods, 1 pivot fitting top, 1 overpanel-sidelight connector with pivot bearing location, 1 pivot fitting bottom for dormakaba BTS/floor pivot	

#### Accessory options for Set 3

Pull handles	Length	Art. No.
Pull handles (single-point fixing countersunk)	350	<b>29.268</b>
	720	<b>29.271</b>
	1,240	<b>29.274</b>
	1,760	<b>29.277</b>
Pair of pull handles	350	<b>21.267</b>
	720	<b>21.270</b>
	1,240	<b>21.273</b>
	1,760	<b>21.276</b>
Ceiling fixing (bearing function)		<b>29.337</b>
Stop at overpanel, (inside/outside) for 10/13.5 mm glass		<b>29.335</b>
<b>Lock</b>		
Corner lock		<b>21.448</b>
Corner lock with rose on one lock side		<b>21.449</b>
Profile cylinder for corner lock 21.448/449		<b>14.206</b>
Eccentric bushing for corner lock 21.448/449		<b>05.194</b>
<b>Further accessories</b>		
Overpanel-sidelight connector for 10/13.5 mm glass		<b>29.320</b>
Floor pivot bearing		<b>01.106</b>
Assembling tool for MANET single-point fixings		<b>21.134</b>

For the requisite glass preparation please see pages 172 – 173

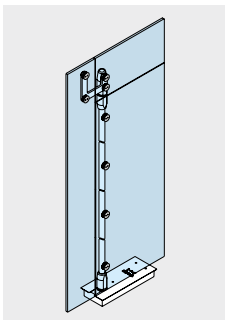


**Space for your notes**

# Pivoting door system

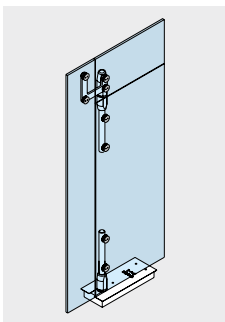
MANET pivoting doors can be installed in both glass partitions and masonry openings. They come as both single and double-action swing doors. All the single-point fixings are designed for clip-on covers for easier installation. Other components include the bottom pivot bearing, top pivot fittings with bearing spigot or eccentric bushing and also overpanel/ sidelight connectors.

As a result, there are almost unlimited possibilities for inte-grating frameless swing doors both in masonry openings – with or without overpanels and sidelights – and in glass partition constructions retained by single-point fixings. Whether with a full-length pivot rod or a pair of shorter pivot rods, the top bearing socket is located in the fitting on the door leaf. This means that connection to the ceiling, lintel or transom can now be provided in the form of the standard PT25 top pivot spigot from the DORMA-Glas range. The door assemblies can be equipped with floor springs such as the dormakaba BTS 75V or BTS 84, and corner locks are naturally also available.

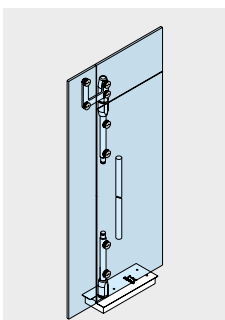


Pivot bearing with full-length pivot rod,  
max. door panel height 3,000 mm  
max. door panel width 1,200 mm  
max. door panel weight 100 kg

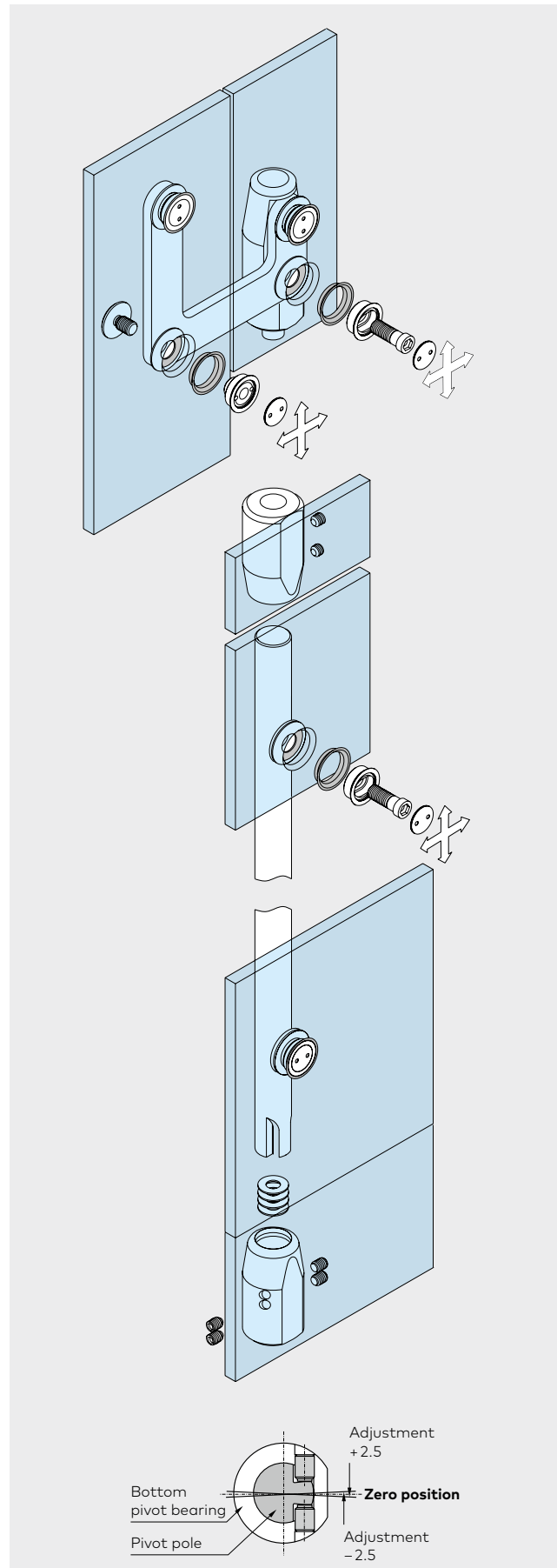
From a door panel height of 2,700 mm a fifth single-point fixing is recommended.



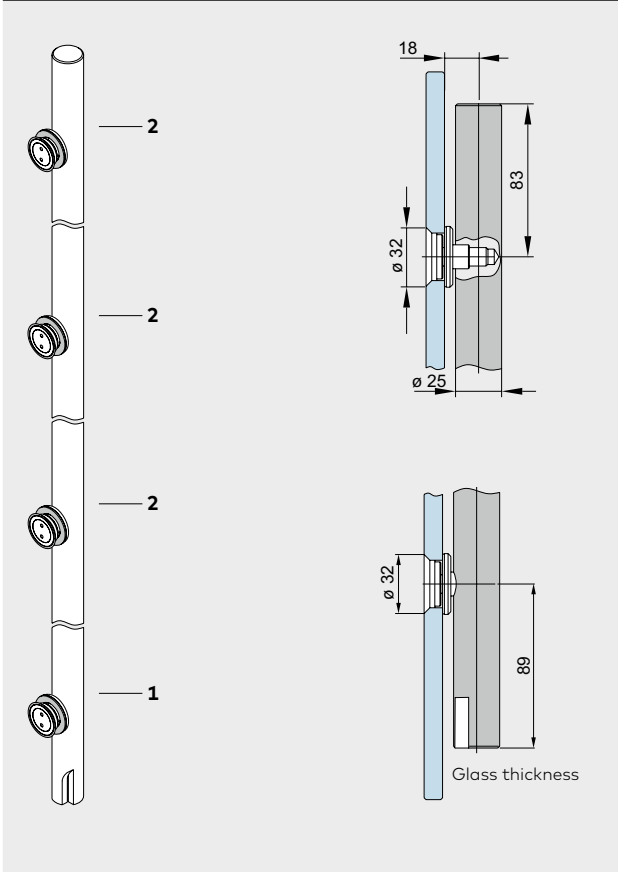
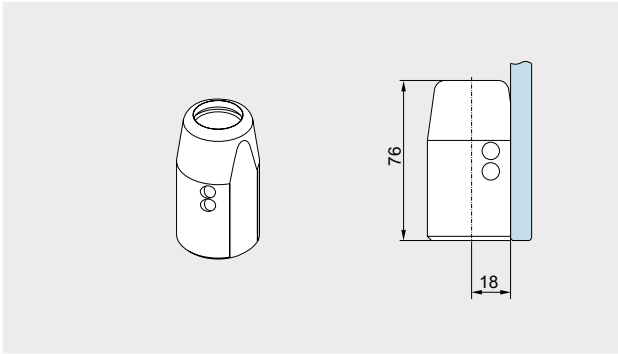
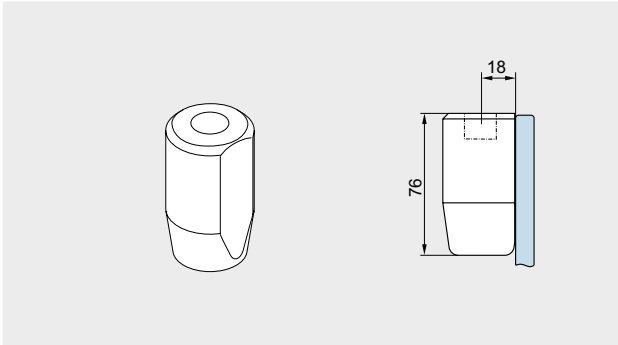
Pivot bearing with pivot rod pair short type,  
max. door panel height 2,500 mm  
max. door panel width 1,200 mm  
max. door panel weight 80 kg



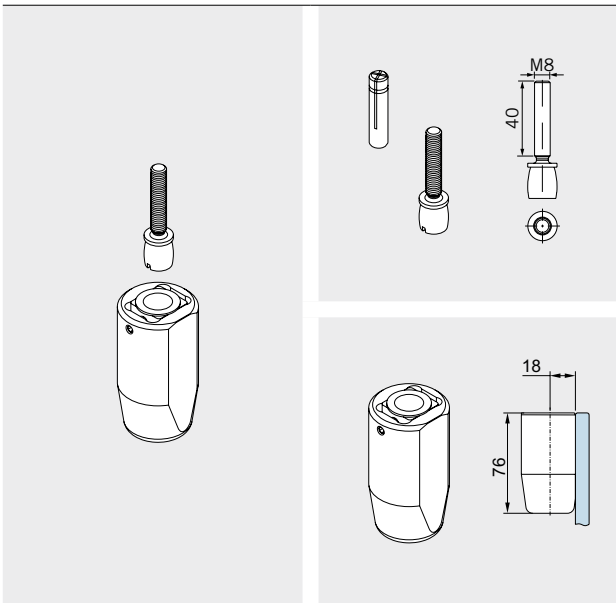
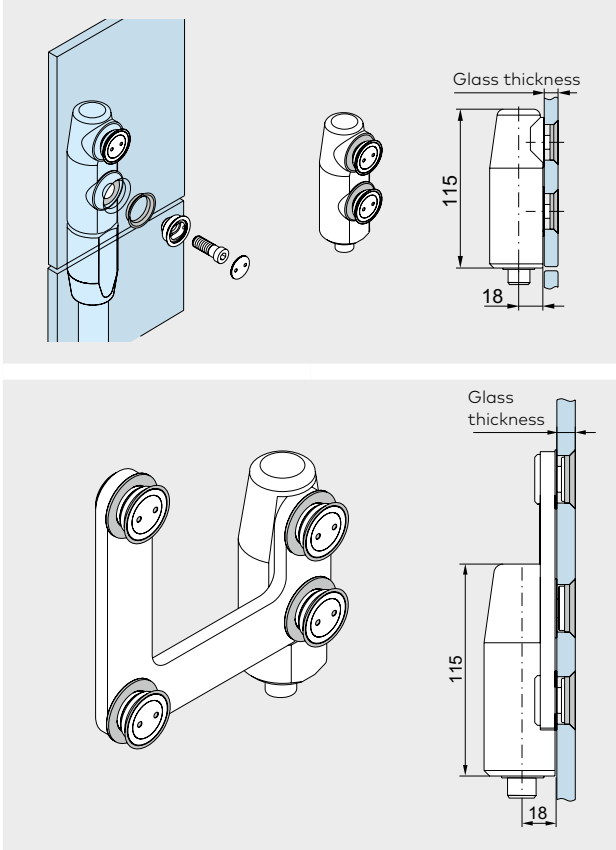
Pivot bearing with pivot rod pair short type with intermediate tube,  
max. door panel height 2,500 mm  
max. door panel width 1,200 mm  
max. door panel weight 80 kg



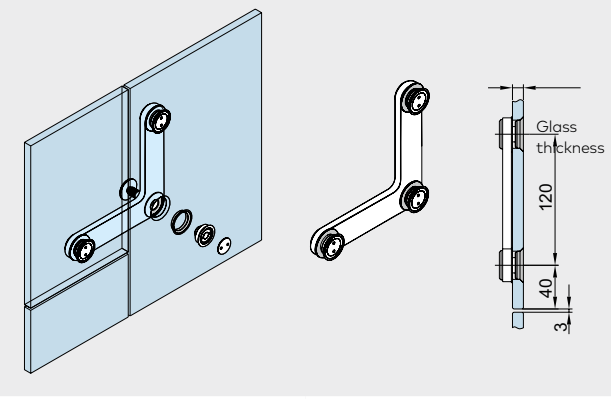
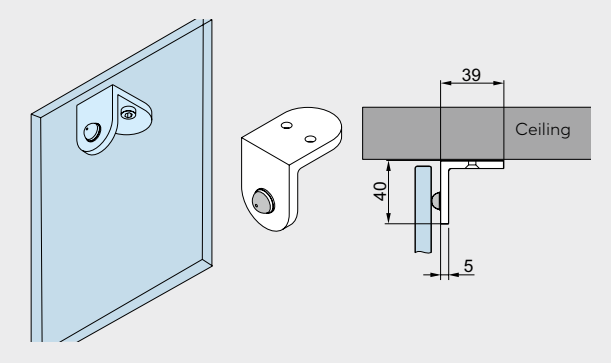
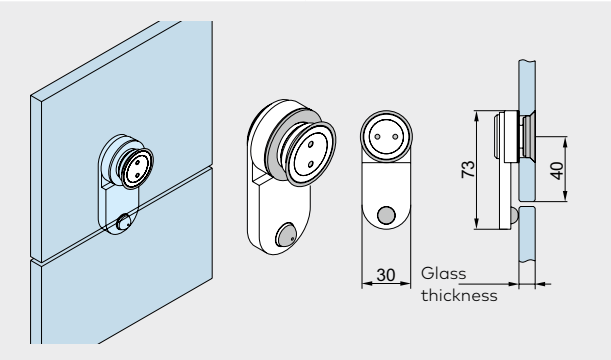
# Components for pivoting door system

	Product description	Glass thickness	Art. No.
	<b>Pivot rod,</b> drilled, fixed length		<b>29.551</b>
	<b>Single-point fixing, countersunk, fixed (1)</b>	10, 13.5 mm	<b>29.460</b>
	<b>Single-point fixing, countersunk, centering (2)</b>	10, 13.5 mm	<b>29.462</b>
	From a door panel height of 2,700 mm a fifth single-point fixing is recommended.		
	<b>Pivot bearing</b> for dormakaba BTS (max. 4 EN) / floor pivot		<b>29.545</b>
	AISI 316L		
	<b>Pivot bearing for overpanel and ceiling connection</b>		<b>21.310</b>
	AISI 316L		

# Components for pivoting door system

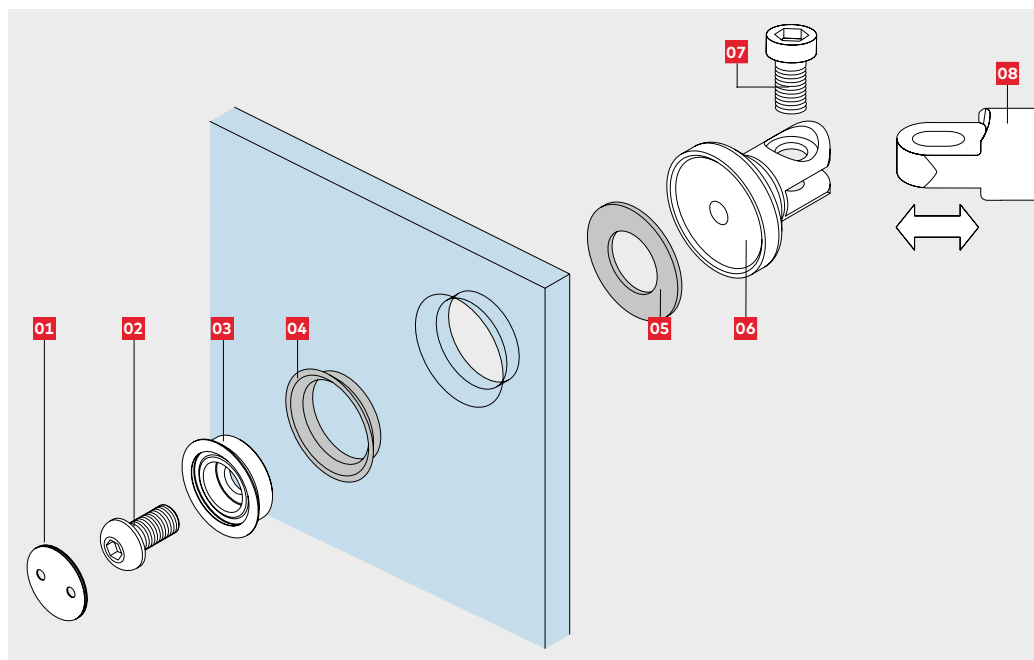
Product description		Glass thickness	Art. No.
	<b>PT 25 pin</b> for ceiling connection		<b>01.115</b>
	<b>Pivot bearing for installation to ceiling</b> adjustable	8–13.5 mm	<b>21.319</b>
	<b>Pivot bearing location for overpanel</b> countersunk	10–13.5 mm	<b>29.333</b>
	<b>Overpanel / sidelight</b> connector complete fitting countersunk	10, 13.5 mm	<b>29.330</b>

## Glass fixing

	Product description	Glass thickness	Art. No.
	<b>Overpanel / sidelight connection</b> countersunk	10, 13.5 mm	<b>29.320</b>
	<b>Stop for pivoting door</b> with ceiling mounting		<b>21.334</b>
	<b>Stop at overpanel</b> (inside/outside)	10-13.5 mm	<b>29.335</b>

# Connection elements

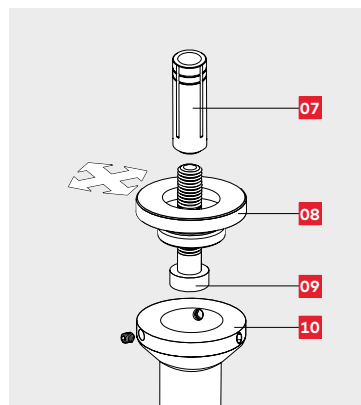
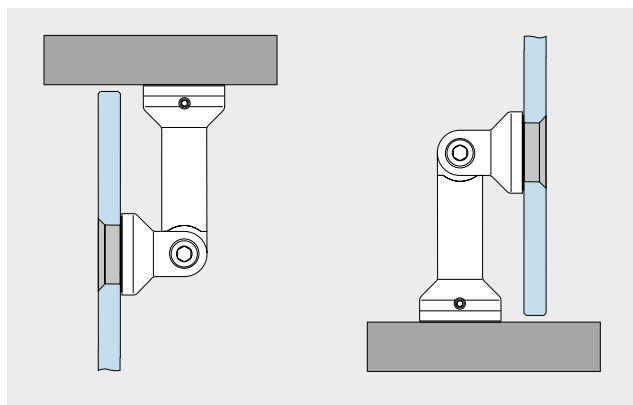
## Glass fixing



### Components

- 01** Clip-on cover
- 02** Connecting bolt
- 03** Conical collar
- 04** Conical sleeve
- 05** Gasket
- 06** Pivoting clamp
- 07** Connecting bolt
- 08** Connecting rod to suit length

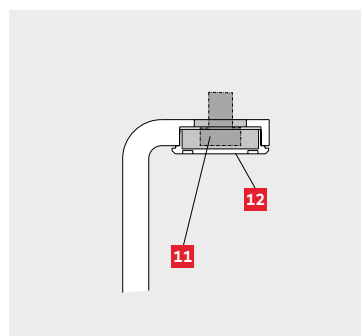
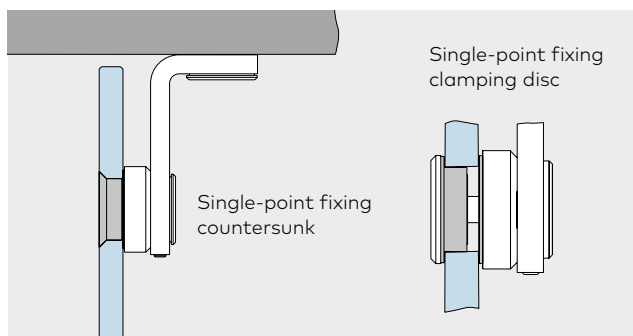
## Connection ceiling / floor



### Components

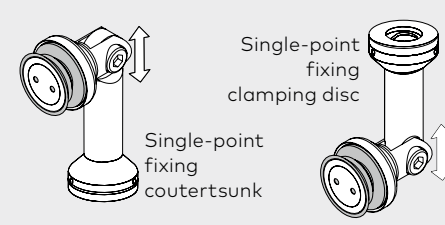
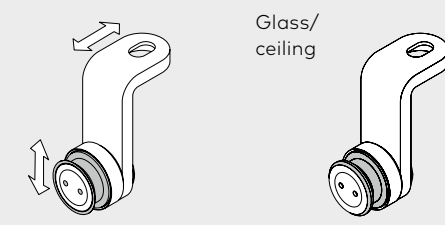
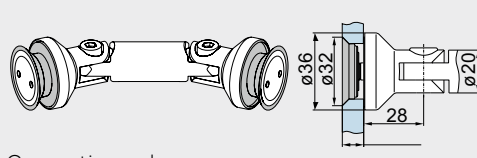
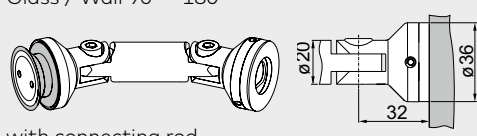
- 07** Wallplug on site
- 08** Mounting plate, 2-dimensional adjustable
- 09** Threaded rod M8
- 10** Column

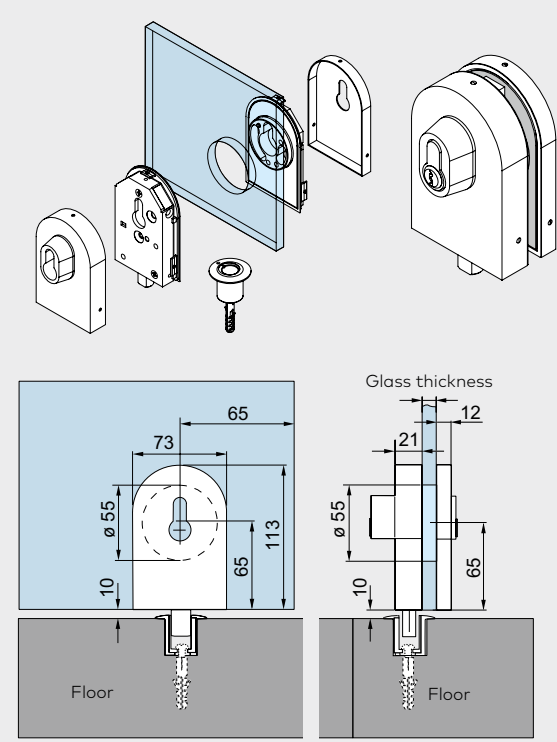
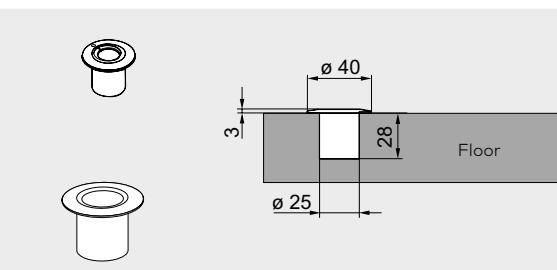
## Alternative connection ceiling



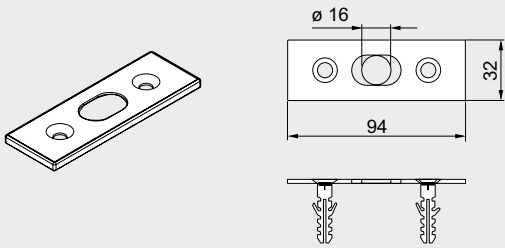
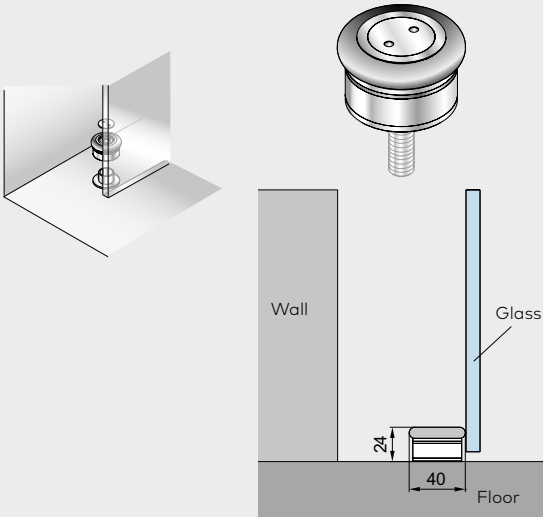
### Components

- 11** Threaded rod M8 DIN 7984 M10 x..., or oval-head wood screw DIN 7996 M8 x...
- 12** Clip-on cover

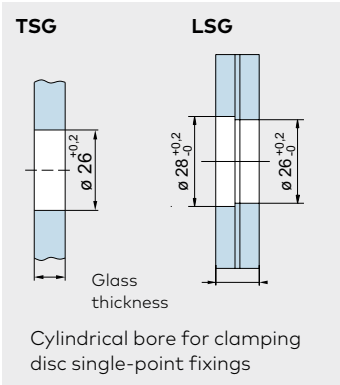
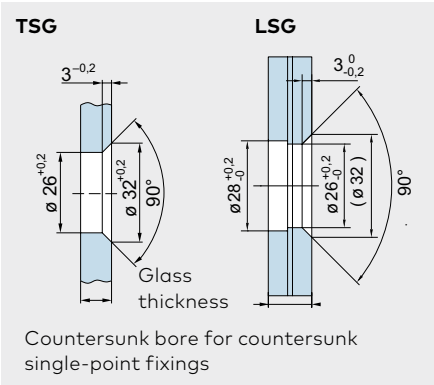
	Product description	Glass thick- ness	Art. No.
 <p>Single-point fixing clamping disc</p> <p>Single-point fixing coutertsunk</p> <p>Glass/Floor</p>	<b>Complete fitting ceiling connection</b>	8 – 12 mm	<b>29.145</b>
 <p>Glass/ ceiling</p> <p>Height adjustment by means of grub screw</p>	<b>Complete fitting Angle connection 90</b> (supporting function only)	8 – 12 mm	<b>29.145</b>
<p>Glass / Glass 90° – 180°</p>  <p>Connecting rods 60 / 103 mm</p>	<b>Complete fitting glass / glass</b> with connecting rod 60 mm with connecting rod 103 mm	8 – 13.5 mm	<b>29.337</b> <b>29.130</b>
<p>Glass / Wall 90° – 180°</p>  <p>with connecting rod 60 / 103 mm</p>	<b>Complete fitting glass / wall</b> with connecting rod 60 mm with connecting rod 103 mm	8 – 13.5 mm	<b>29.140</b> <b>29.158</b>

	Product description	Glass thickness	Art. No.
	<b>Corner lock</b> with profile cylinder rose on inside	8–12 mm	<b>21.449</b>
	<b>Profile cylinder</b> for corner lock		<b>14.206</b>
	<b>Eccentric bushing</b> for corner lock		<b>05.194</b>



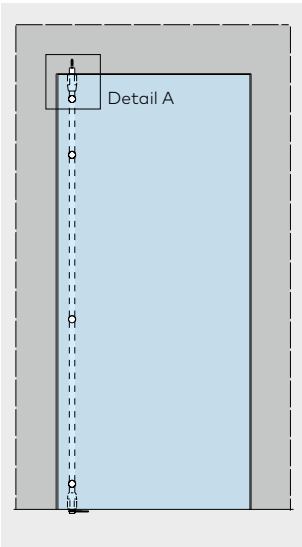
	Product description	Glass thickness	Art. No.
	Strike plate		05.190
	Stop for pivoting door floor mounting		29.950

# Glass preparation pivoting door system

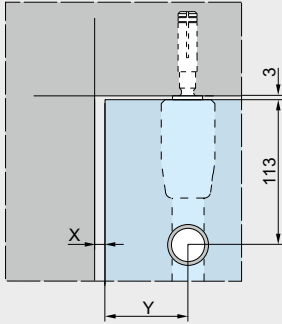


The gap and distance dimensions recommended by DORMA-Glas are indicated in the adjacent table.

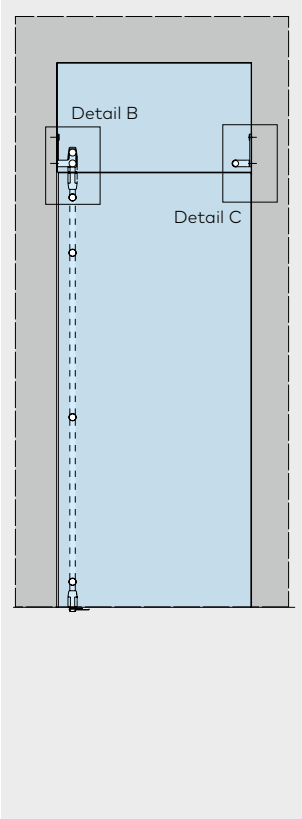
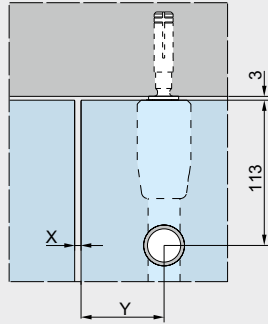
Glass thickness mm	Connection	X Gap	Y
10/12	Sidelight	5	65
	Wall	8	
13.5	Sidelight	8	62
	Wall	11	



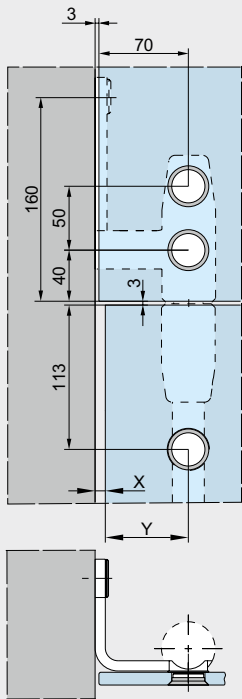
Detail A  
at wall



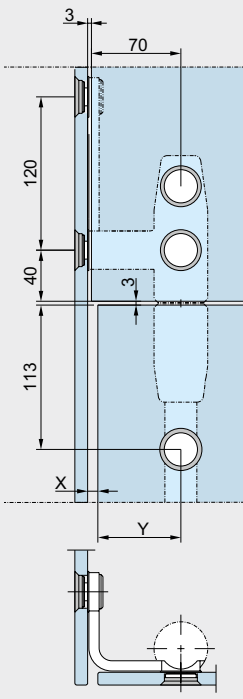
Detail A  
at sidelight



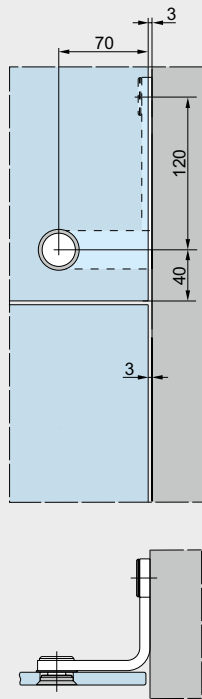
Detail B  
at wall

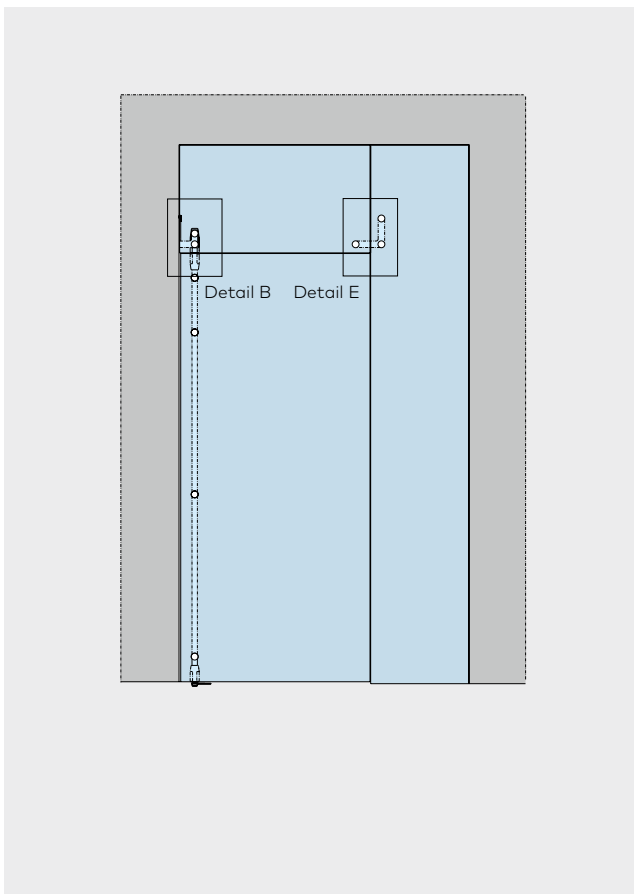
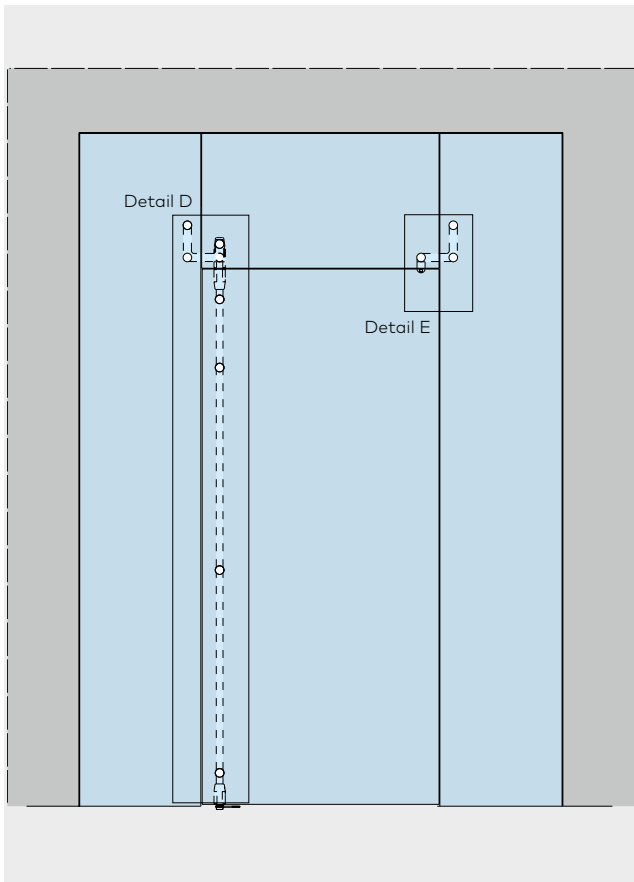


Detail B  
at glass wall

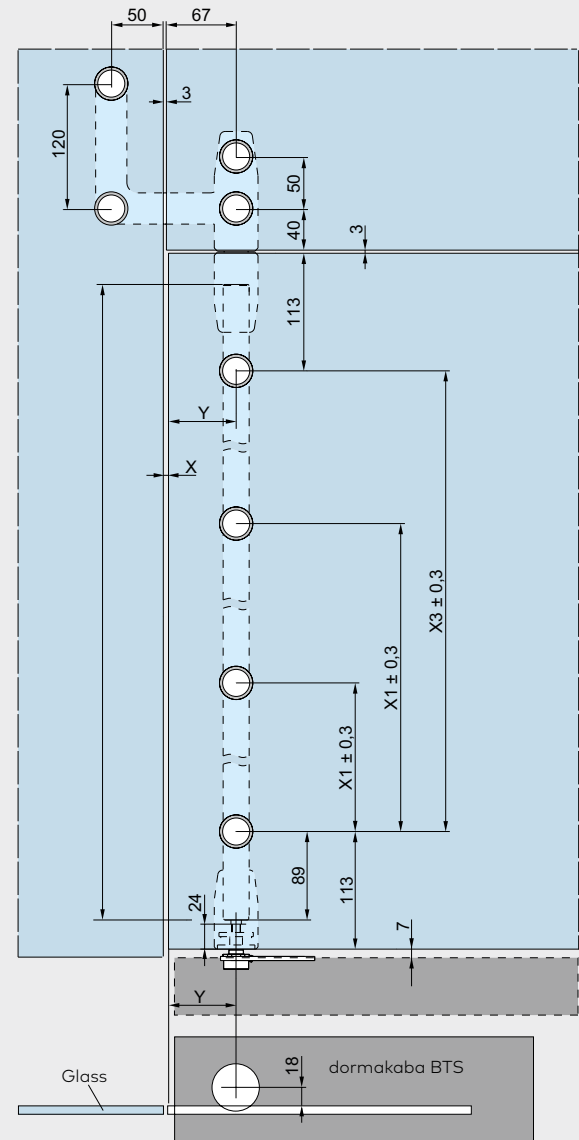


Detail C  
at wall

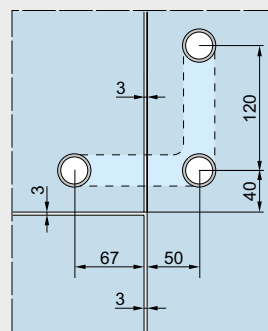
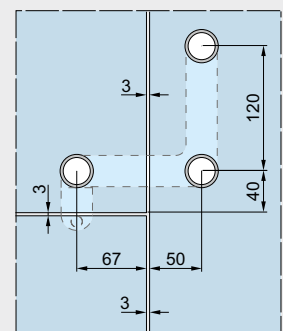




Detail D

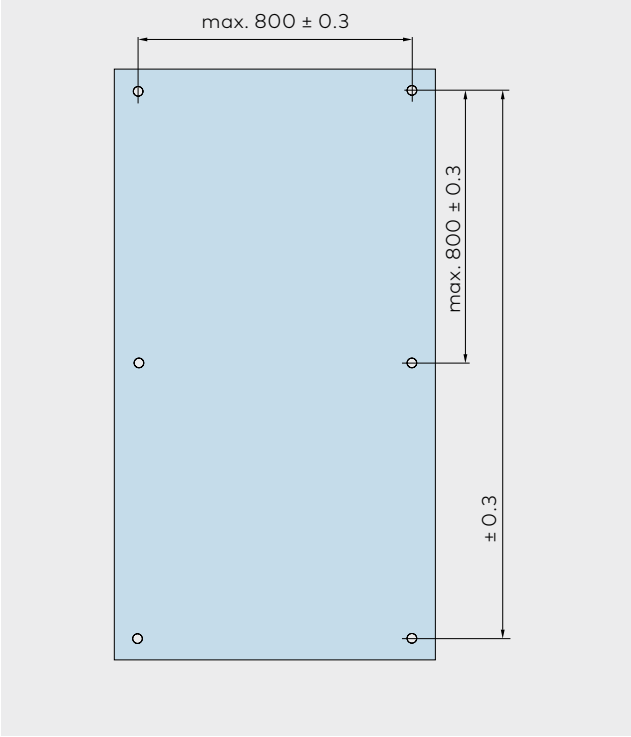


Detail E

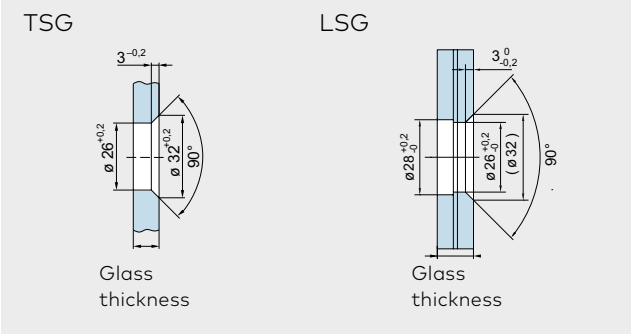
Detail E  
with stop

# Glass preparation connection system

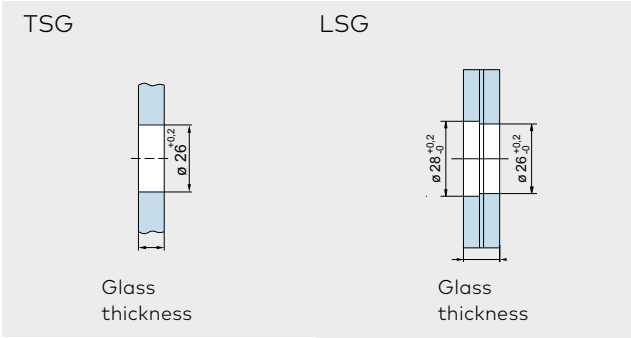
For TSG and LSG from TSG.  
Recommended centers for fixed glazing element



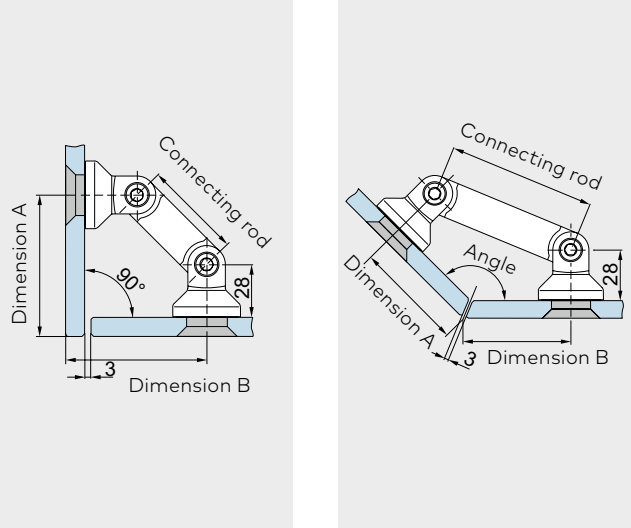
## Countersunk bore for countersunk single-point fixings



## Cylindrical bore for clamping disc single-point fixings

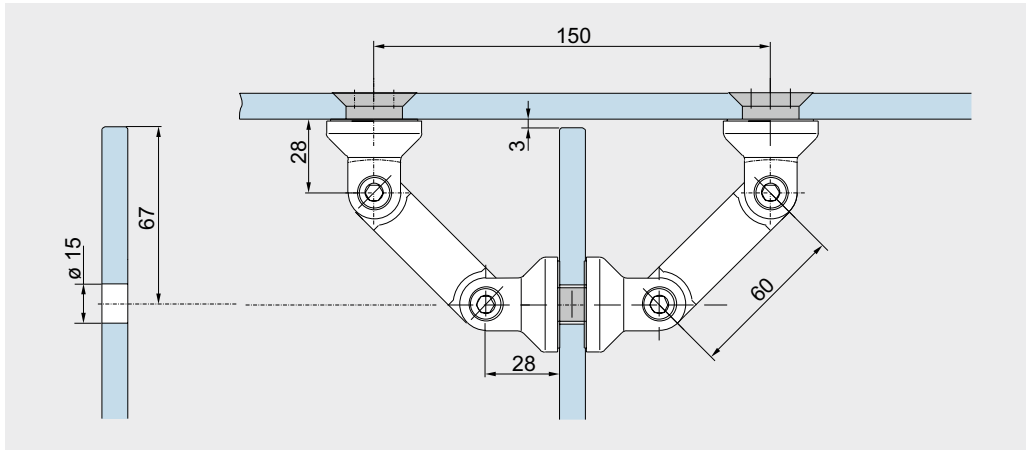
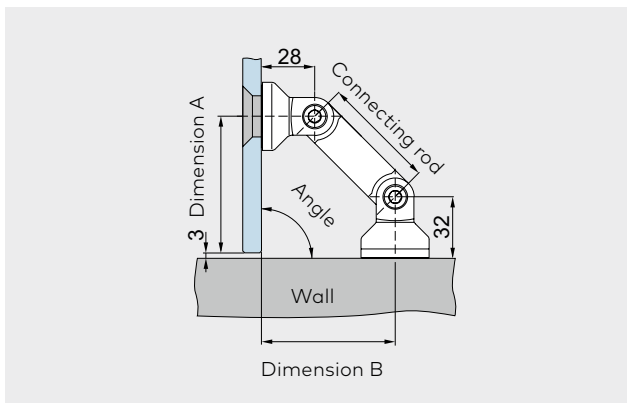


## Corner connectors glass / glass 90 – 180°

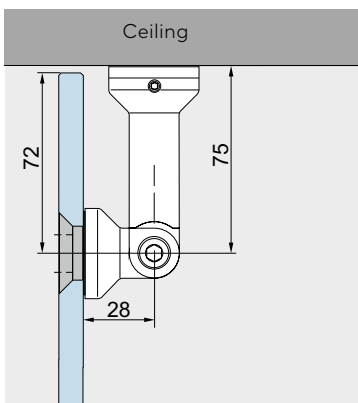
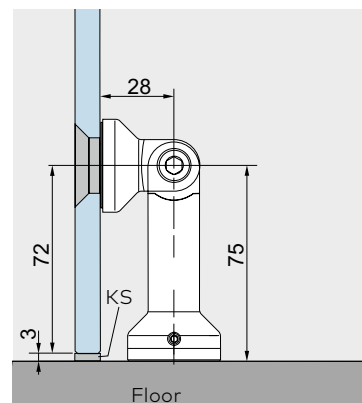
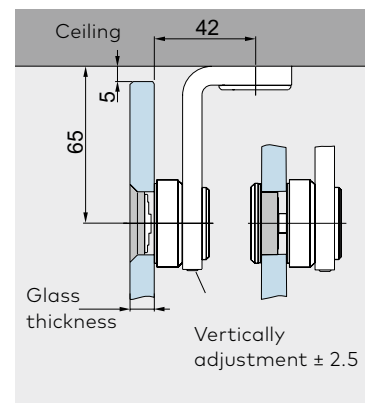


## Corner connectors glass / glass (dimensions in mm)

Length of connecting rod				
	52.5	60	82	103
Dimensions for 10 mm glass thickness. Consider variants for other glass thicknesses.				
Angle	A/B	A/B	A/B	A/B
90°	75	80	96	
95°	70	75	90	
100°	66	71	85	
105°	62	67	81	
110°	59	63	77	
115°	55	60	73	
120°	52	56	69	
125°	49	54	66	
130°	47	51	63	
135°	44	48	60	
180°				50

**Clamping connector****Corner connectors glass / wall 90 – 180°****Glass / wall (dimensions in mm)**

Length of connecting rod			
	52.5	60	82
Dimensions for 10 mm glass thickness. Consider variants for other glass thicknesses.			
Angle	A/B	A/B	A/B
90°	67/65	72/70	87.5/86

**Corner connector glass / ceiling****Corner connector glass / floor****Ceiling fixing (bearing)**

**Note:** Ensure compliance with minimum glass/bore clearances as per glass manufacturer recommendations. Glass preparation with a tolerance of max.  $\pm 0.3$  mm is recommended.

# Content

## SG

174	<b>General information</b>
174	<b>Components</b>
190	<b>Glass preparation</b>
204	<b>Accessories</b>
226	<b>Safety-related information</b>



**SG**

# A range of locks for all requirements

It doesn't matter what sort of glass door needs securing, what function it has to fulfill, or the type of fittings specified – there will be a lock in the SG range which will provide the shape, the function and the finish which you require.

### Simple glass preparation, firm fixing

DORMA-Glas has an intimate knowledge of the special properties of glass as a building material. This has led to the design of locks requiring only simple cut-outs or holes in the glass. Carefully considered and positive measures have been taken to create the maximum clamping surface with optimum clamping efficiency.

### Reliability built in

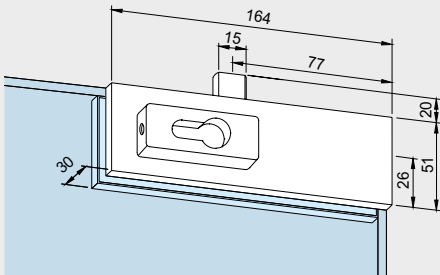
Quality materials and thorough workmanship mean that SG locks have the features necessary to meet the most demanding of specifications. Many satisfied customers will testify this. For safety reasons set lock case always on inside.

### Short delivery times

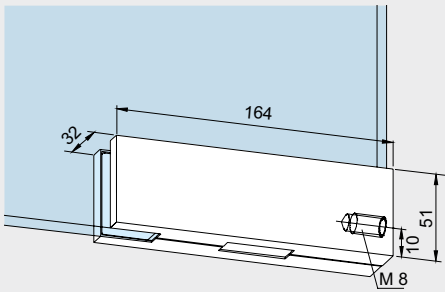
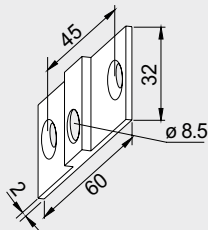
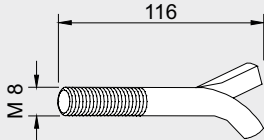
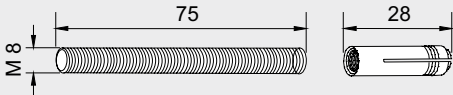
All the common patterns and types are available ex-stock (factory). Special versions are available on request.

## UNIVERSAL top, bottom, centre locks and strike boxes with glass cut-outs

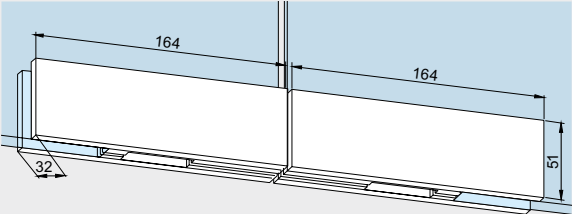
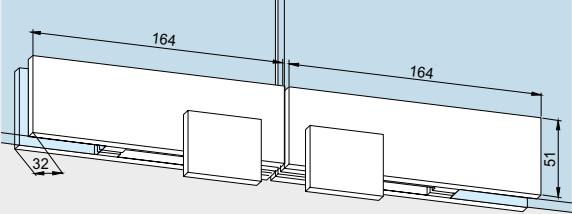
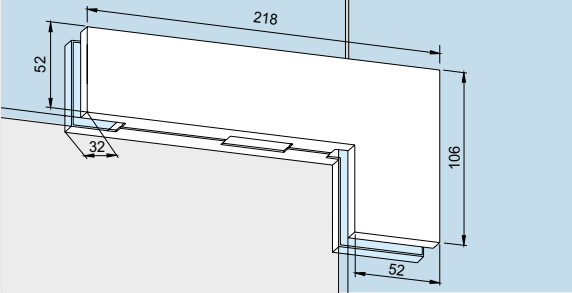
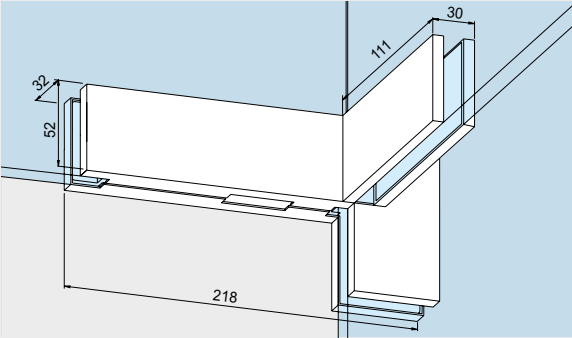
Complete, for 10 mm glass thickness

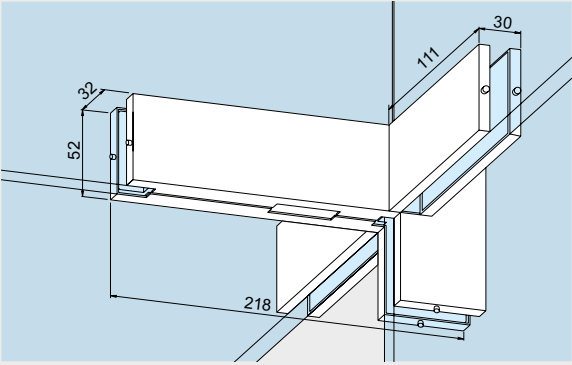
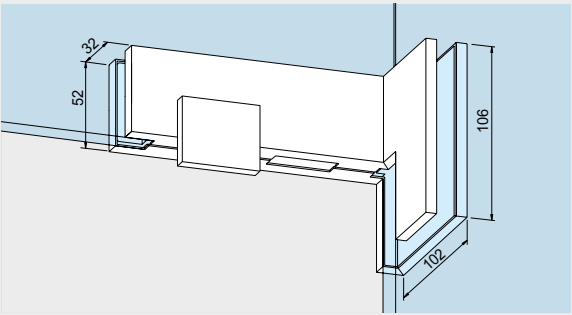
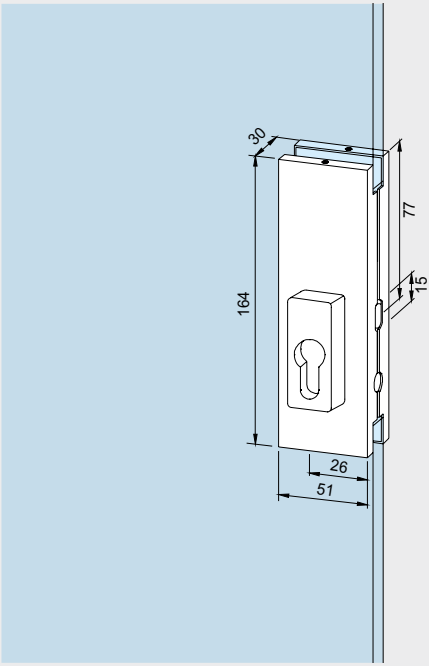
	Product description	Glass thickness	Art. No.
	<b>US 10 corner lock,</b> prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides, 14 mm thick. Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.	10 mm	<b>03.206</b>
	<b>Lock insert:</b> <ul style="list-style-type: none"><li>• high corrosion resistance according to EN 1670, class 4</li><li>• with regard to type-test according to EN 12209:2003*</li></ul>		
	Not illustrated: prepared for round cylinders	10 mm	<b>03.340</b>
	For half profile cylinder		
	left hand top/right hand bottom	10 mm	<b>03.288</b> not illustr.
	left hand bottom/right hand top	10 mm	<b>03.287</b> not illustr.
	Weight in kg/m: Aluminum 0.942 Brass 1.061 Stainless steel 1.053		
	* Successful type testing according to EN 12209:2003 to 200,000 movement cycles.		



	Product description	Glass thickness	Art. No.
	<b>GK 30 single overpanel strike box</b> to suit US 10 corner lock	10 mm	<b>03.230</b>
	Weight in kg: Aluminum 0.418 Stainless steel 0.536		
	<b>Fixing plate</b> for overpanel strike box GK 30 UNIVERSAL		<b>03.128</b>
	Weight in kg: Aluminum 0.016 Brass 0.038		
	Stainless steel not available, satin chrome on brass supplied.		
	<b>Wall anchor</b> with thread M 8 for overpanel patch UNIVERSAL		<b>01.133</b>
	Weight in kg: 0.040		
	<b>Threaded rod</b> M 8 with plug for overpanel patch UNIVERSAL		<b>01.134</b>
	Weight in kg: 0.032		

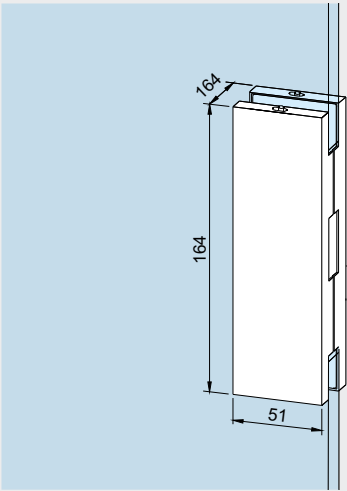
\* Left / right hand (illustration shows left hand) are determined by view from hanging side.

	Product description	Glass thickness	Art. No.
	<b>GK 20 double overpanel strike box</b> to suit US 10 corner locks, consisting of two GK 30 with threaded connecting bolt  Weight in kg: Aluminum 0.866 Brass 1.154 Satin stainless steel (700) 1.200  Suitable for glass thicknesses up to max. 12 mm. If thicker glass is required, please talk first to our Applications Engineering people.	10 mm	<b>03.245</b>
	<b>GK 20</b> with stop  Weight in kg: Aluminum 0.926 Brass 1.234 Satin stainless steel (700) 1.192  Suitable for glass thicknesses up to max. 12 mm. If thicker glass is required, please talk first to our Applications Engineering people.		<b>03.247</b>
	<b>GK 40</b> <b>corner overpanel strike box</b> to suit US 10 corner lock  Weight in kg: Aluminum 0.709 Brass 1.035 Stainless steel 1.010		<b>03.250</b>
	<b>GK 41 strike box</b> for PT 41, with fin fitting  Weight in kg: Aluminum 0.906 Stainless steel 1.270		<b>*03.194/ 03.193</b>
* Left / right hand (illustration shows left hand) are determined by view from hanging side.			

	Product description	Glass thickness	Art. No.
	<b>GK 41 strike box</b> with fin fitting on both sides		<b>03.195</b>
	Weight in kg: Aluminum 1.103 Stainless steel 1.411		
	<b>GK 42 strike box,</b> <b>angle 90°, for PT 42,</b> <b>with stop inside</b>		<b>*03.274/ 03.275</b>
	Weight in kg: Aluminum 0.910 Stainless steel 1.306		
	Not illustrated: GK 42, angle 135°		<b>*03.276/ 03.277</b>
	<b>US 20 centre lock,</b> prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes 14 mm thick.	10 mm	<b>03.215</b>
	Weight in kg: Aluminum 0.942 Brass 1.061 Stainless steel 1.053		
	<b>Lock insert:</b> <ul style="list-style-type: none"> <li>• high corrosion resistance according to EN 1670, class 4</li> <li>• with regard to type-test according to EN 12209:2003**</li> </ul>		
	Weight in kg: Aluminum 0.805 Stainless steel 0.925		
	prepared for round cylinder		<b>03.345</b> not illustr.
	Prepared for one-sided Europrofile cylinder (see drawing 03.215)		<b>*03.290/ 03.289</b>

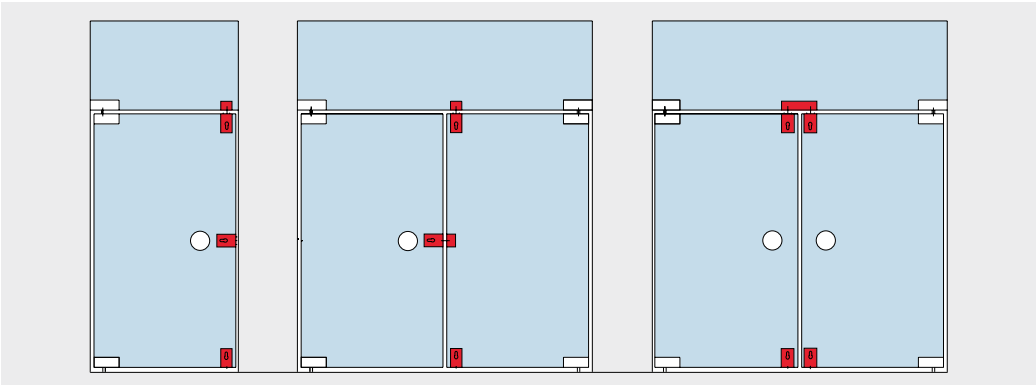
\* Left / right hand (illustration shows left hand) are determined by view from hanging side.

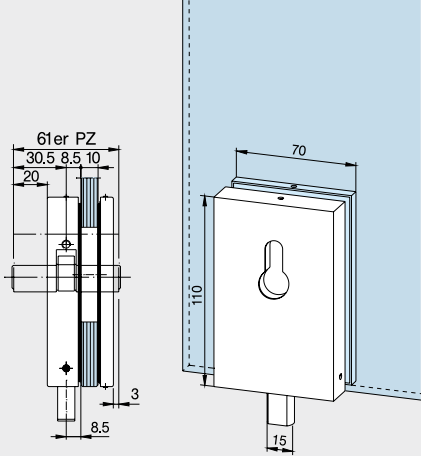
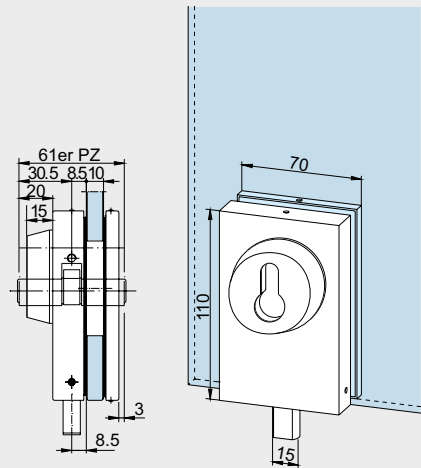
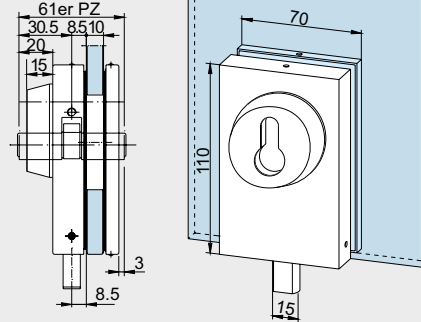
\*\* Successful type testing according to EN 12209:2003 to 200,000 movement cycles.

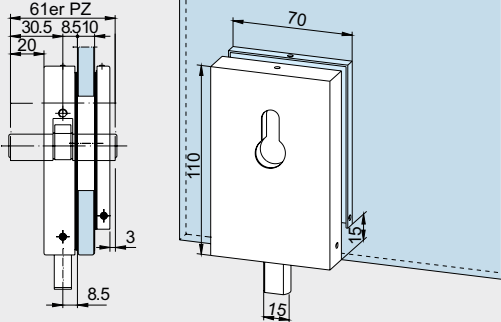
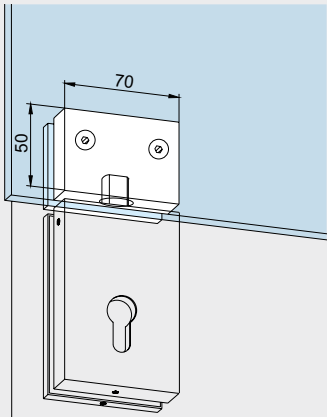
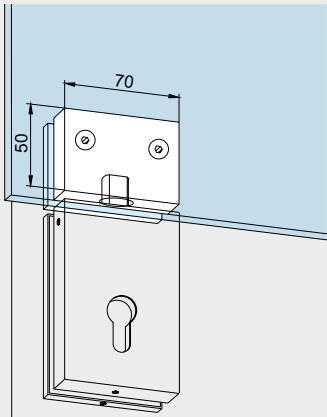
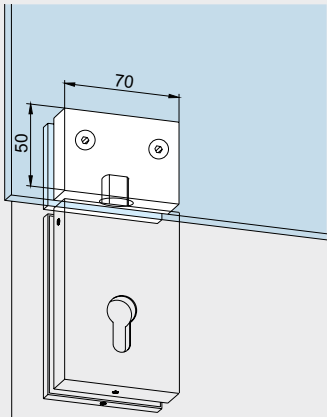
	Product description	Glass thickness	Art. No.
	<b>GK 50 strike box</b> to suit US 20 centre lock	10 mm	<b>03.224</b>
	Weight in kg: Aluminum 0.602 Brass 0.730 Stainless steel 0.727		

# Corner (OR centre) locks and strike boxes with drilled holes glass preparation

Complete for 8, 10 and 12 mm glass thickness



Product description		Art. No.
	<b>Corner lock,</b> for vertical or horizontal fixing, double throw, bolt projection 20 mm, hardened oval bolt, prepared for Europrofile cylinder	<b>05.100</b>
	Weight in kg: Aluminum 0.849 Brass 1.033	
	prepared for round cylinders	<b>05.105</b> not illustr.
	Prepared for one-sided Europrofile cylinder, lockable from inside	<b>05.116</b> not illustr.
	Weight in kg: Aluminum 0.858 Brass 1.038	
	<b>Corner lock,</b> prepared for Europrofile cylinder, rose inside	<b>05.118</b>
	Weight in kg: Aluminum 0.924 Brass 1.236	

	Product description	Art. No.
	<b>Corner lock,</b> for vertical fixing, double throw, bolt projection 20 mm, hardened oval bolt, counterplate shortened to give 15 mm free glass edge, prepared for Europrofile cylinder	<b>05.103</b>
	Weight in kg: Aluminum 0.807	
	Prepared for one-sided Europrofile cylinder, lockable from inside	<b>05.117</b> not illustr.
	Weight in kg: Aluminum 0.818 Brass 0.984	
	Prepared for Europrofile cylinder, rose inside	<b>05.119</b> not illustr.
	Weight in kg: Aluminum 0.882 Brass 1.184	
	<b>Strike box</b> to suit corner lock (05.100, 05.105, 05.116), for single and two panel doors without stop	<b>05.108</b>
	Weight in kg: Aluminum 0.260 Brass 0.765	
	with stop for Art. No. 05.103, 05.117, 05.119	<b>05.109</b> not illustr.
	Weight in kg: Aluminum 0.264 Brass 0.760	

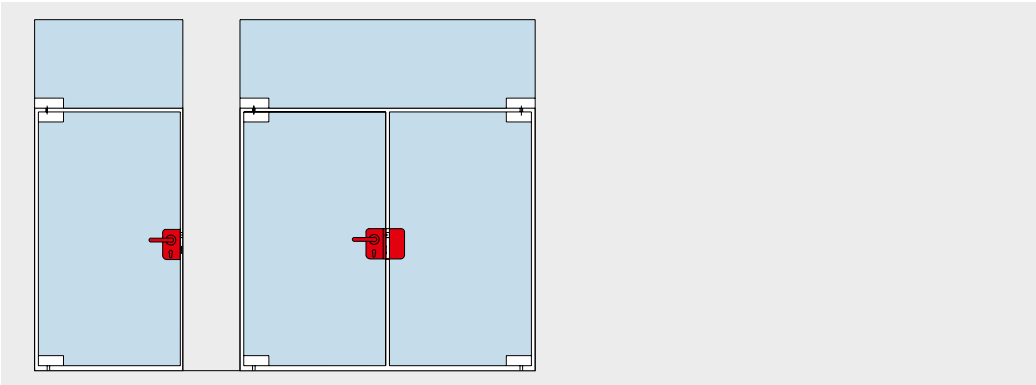
# Corner and centre locks without glass preparation

Complete, for 10 and 12 mm glass thickness

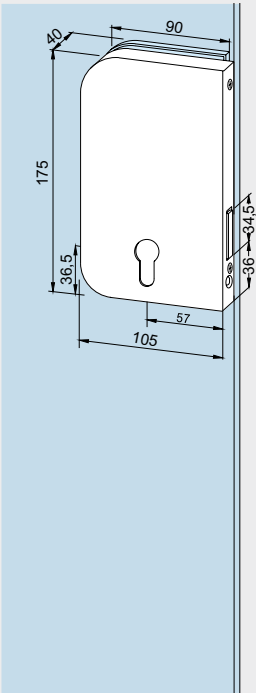
	Product description	Glass thickness	Art. No.
	<b>Slide over corner lock</b> for single- and double-action doors for retro-fitting, double throw, bolt projection 20 mm, hardened oval bolt, prepared for Europrofile cylinder	10 mm 12 mm	<b>05.106</b> <b>05.130</b>
	Special model for 8 mm glass also available.		
	Weight in kg: Aluminum 0.740		
	prepared for Rundzylinder	10 mm	<b>05.107</b>
	<b>Slide over strike box</b> for slide over corner lock for single door		
	Weight in kg: Aluminum 0.341		
	for Art. No. 05.106/05.107	10 mm	<b>05.112</b>
	for Art. No. 05.130/05.131	12 mm	<b>05.132</b>

# Centre locks and strike boxes

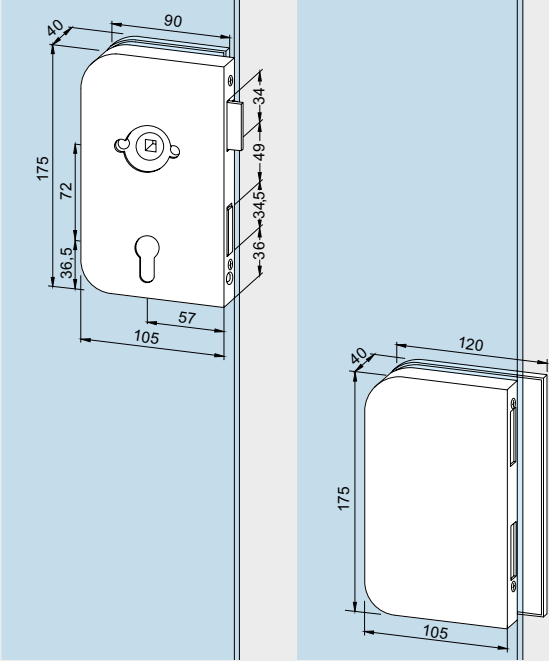
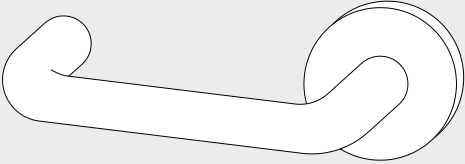
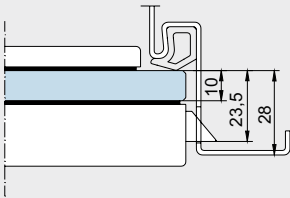
Complete, for 10 mm glass thickness

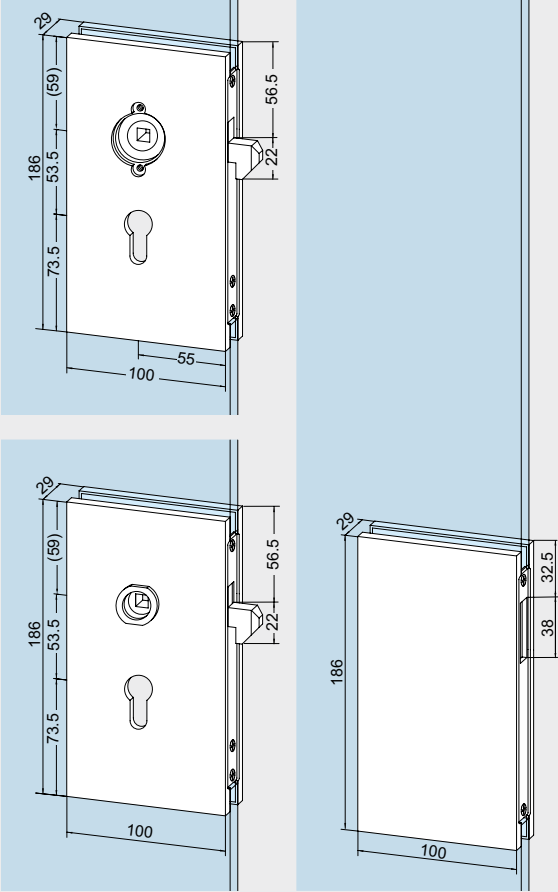


Centre locks and strike boxes  
with drilled holes glass preparation

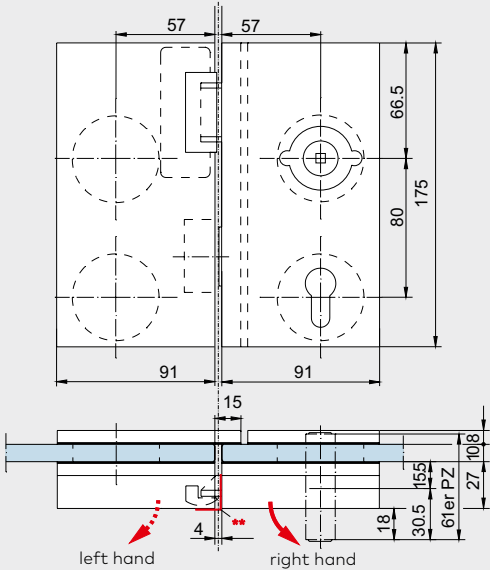
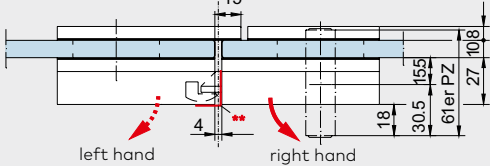
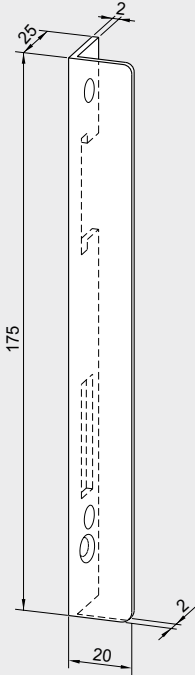
Product description		Art. No.
	<b>Centre lock</b> for single-action door (with free glass edge), prepared for Europrofile cylinder, double throw	<b>*11.220/11.221</b>
	Weight in kg: Aluminum	1.060



	Product description	Art. No.
	<b>Centre lock</b> for single-action door (with free glass edge), with both latch and lock bolt, prepared for lever on round rose inside, smooth blanking plate outside, prepared for Europrofile cylinder, double throw	<b>*11.224/11.225</b>
	Weight in kg: Aluminum 1.175	
	<b>Strike box</b> to suit centre locks for: Art. No. 11.224, 11.225 Art. No. 11.220, 11.221	<b>*11.203/12.207</b>
	Weight in kg: Aluminum 0.945	
	<b>Lever handle, for inside</b> to suit centre locks for: Art. No. 11.224, 11.225, Art. No. 11.254, 11.255	<b>11.226</b>
	Weight in kg: Aluminum 0.195	
	<b>If used on glass doors in rebated frames and for 10 mm glass thickness, a minimum of 26–28 mm frame depth is needed.</b>	
	* Left / right hand (illustration shows left hand) are determined by view from hanging side.	

Product description		Art. No.
	<b>Hook lock</b> for sliding doors, nightlatch function, suitable for <b>aluminum lever handles with round roses</b> (10.307), prepared for Euro- profile cylinder, left hand and right hand, with lock keeper plate  Weight in kg: Aluminum 1.325	<b>05.200</b>
	<b>Suitable for lever handles with follower</b>  Weight in kg: Aluminum 1.325	<b>05.202</b>
	<b>Strike box</b> to suit hook lock, (05.200, 05.202), non-handed  Weight in kg: Aluminum 0.890	<b>05.201</b>

\* Left / right hand (illustration shows left hand) are determined by view from hanging side.

	Product description	Art. No.
	<b>Centre lock</b> with latch and lock bolt, for inward opening single-action doors, prepared for lever on round rose inside, smooth blanking plate outside, prepared for Europrofile cylinder	<b>*05.224/05.225</b>
	Weight in kg: Aluminum 1.090	
	<b>Suitable lever handle</b> see page 199	<b>11.226</b>
	<b>Centre lock</b> with latch and lock bolt, for inward opening single-action doors, prepared for rose lever on both sides, prepared for Europrofile cylinder	<b>*05.228/05.229</b>
	<b>Strike box,</b> to suit centre lock with latch and lock bolt, <b>with electric strike release</b> (Standard: fail secure function, 6 to 12 V -/-, with mechanical unlock. Further types on request.) (for Art. No. 05.224, 05.225)	<b>*05.226/05.227</b>
	Weight in kg: Aluminum 0.595	
	<b>Angle bracket</b> for centre locks (opening to outside)	<b>*05.218/05.219</b>
	Weight in kg: 0.040	
		
LH/ISO 6 door illustrated.		

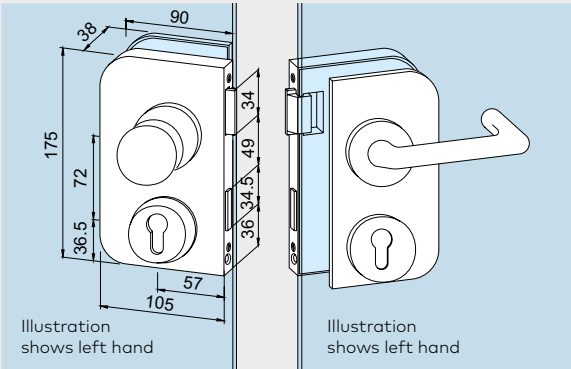
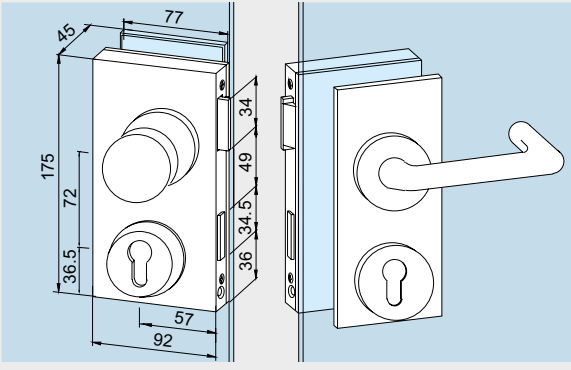
\*Left / right hand are determined by view from hanging side.  
\*\*Angle bracket (05.218/05.219) for door opening outwards (optional)

# Locks with panic function, opening to outside

for 8 and 10 mm glass thickness

**Operation outside:** Bolt is unlocked by turn of key, and latch is withdrawn by follower.  
**Operation inside:** Lock can be operated by rose lever handle even when bolt is locked.

Not for emergency exit doors according to German Standard DIN EN 179 or DIN EN 1125 (corresponding modifications in preparation)  
  
For best protection against burglary we recommend the use of the angle bracket (05.218/05.219)

	Product description	Art. No.
	<b>Centre lock</b> with both latch and lock bolt, <b>rose lever on inside</b> and fixed knob (without function) on outside. Prepared for Europrofile cylinder with roses  Weight in kg: Aluminum 1.706  Please use strike box 11.206/11.207.	<b>*05.240/05.241</b>
	<b>For strike boxes with electric strike release</b>  <b>Centre lock</b> with both latch and lock bolt, with angled cover, for door opening outwards (not shown), <b>rose lever on inside</b> and fixed knob (without function) on outside. Prepared for Europrofile cylinder with roses. Lockable into strike boxes with electric strike release for Art. No. 05.226/05.227  Weight in kg: Aluminum 2.900	<b>*05.244/05.245</b>

\*Left / right hand are determined by view from hanging side.

Additional exit devices for glass doors with panic function covered by approval certification can be found in the technical documentation of PHA 2000 and Exit Pad

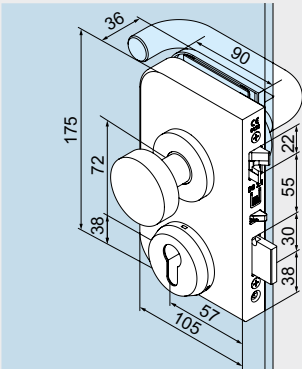
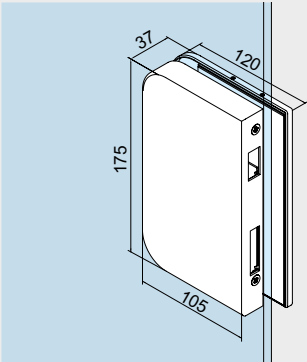
# Self-locking panic locks, opening to outside

for 8 and 10 mm glass thickness

**Operation outside:** Bolt is unlocked by turn of key, and latch is withdrawn by follower.

**Operation inside:** Lock can be operated by rose lever handle even when bolt is locked.

For emergency exit doors according to German Standard DIN EN 179.

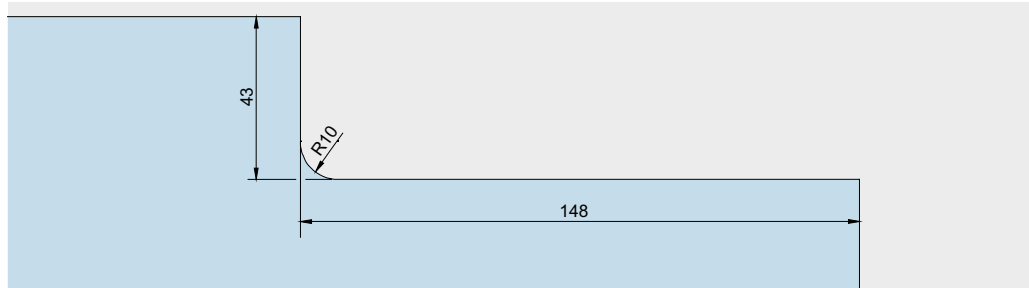
	Product description	Art. No.
	<p><b>Centre lock OFFICE Junior SVP 5000</b> with both latch, lock bolt self-locking function <b>rose lever on inside</b> and fixed knob (without function) on outside. Prepared for Europrofile cylinder with roses</p> <p>Weight in kg: Aluminum 1.706</p>	<b>*05.250/05.251</b>
	<p><b>Strike box for self-locking panic lock</b> <b>05.250/05.251</b></p> <p>Weight in kg: Aluminum 1.486</p>	<b>*05.252/05.253</b>

**Please note:**  
For frame applications with 8 mm TSG a rebate depth of min. 26 mm required. With 10 mm TSG, a fold depth of of at least 28 mm required.

\* Left / right hand are determined by view from hanging side.

Additional exit devices for glass doors with panic function covered by approval certification can be found in the technical documentation of PHA 2000 and Exit Pad

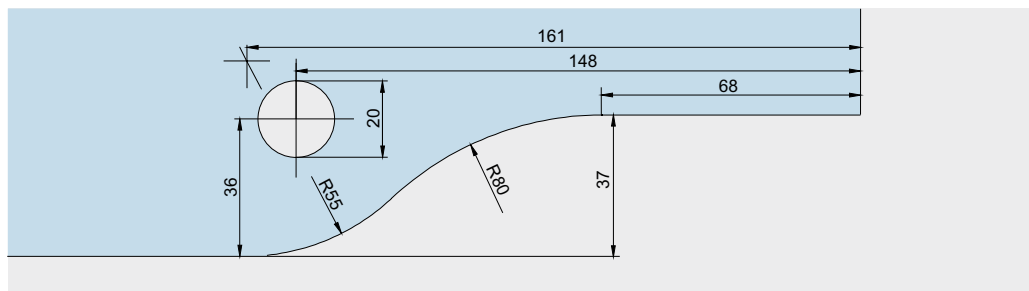
# Glass preparation locks



## US 10

Corner locks  
Art. No. 03.206,  
03.285, 03.287,  
03.288, 03.340

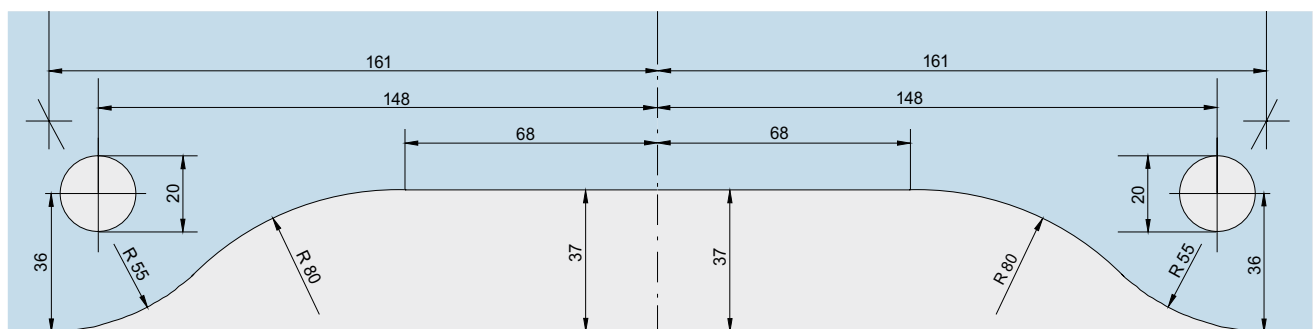
**Scale 1 : 2**



## GK 30 (PT 30)

Single overpanel  
strike box  
Art. No. 03.230,

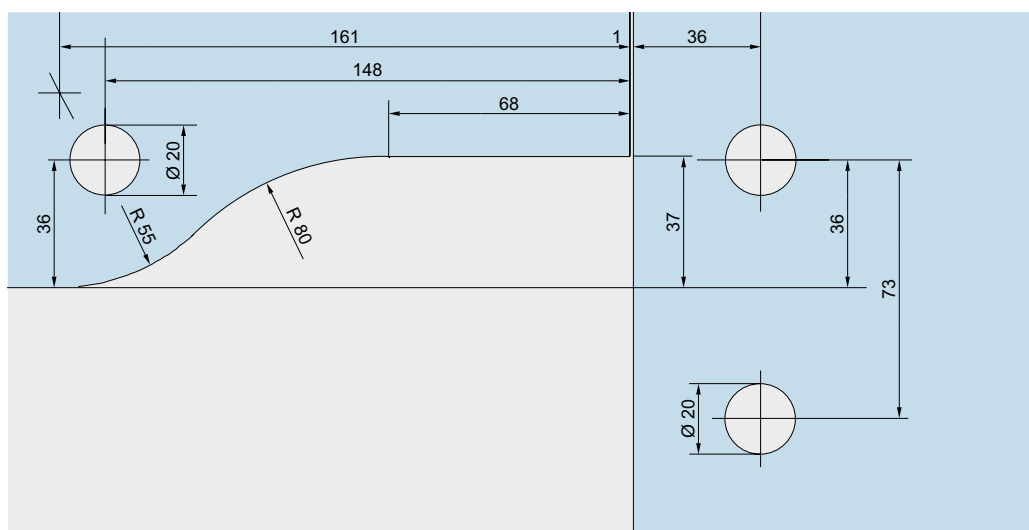
**Scale 1 : 2**



## GK 20

Double overpanel  
strike box  
Art. No. 03.245,  
03.247

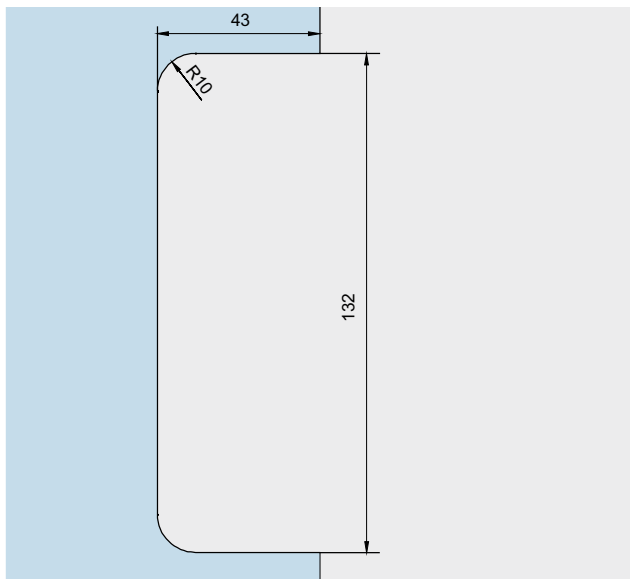
**Scale 1 : 2**



## GK 40 (PT 40)

Corner overpanel  
strike box  
Art. No. 03.250,

**Scale 1 : 2**

**US 20, GK 50**

Centre lock

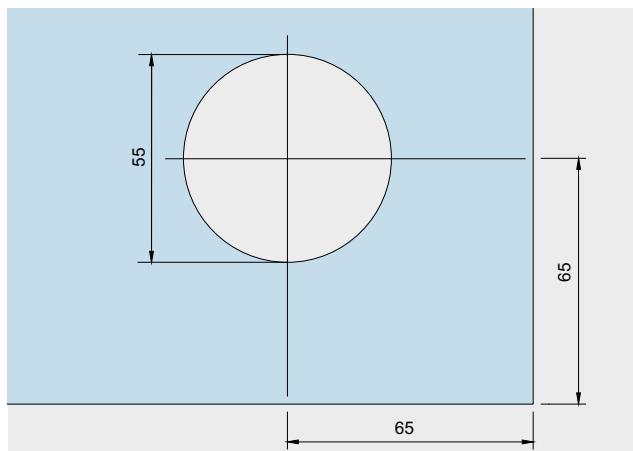
Art. No. 03.215, 03.289, 03.290, 03.345

and strike box for centre lock

Art. No. 03.224

**Scale 1 : 2**

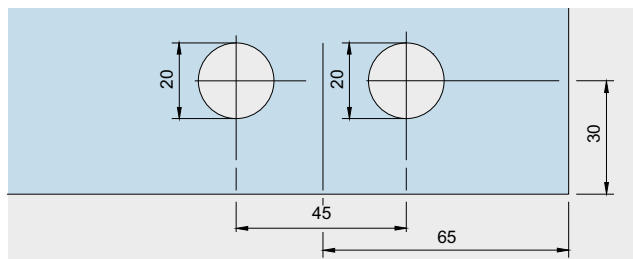
# Glass preparation for corner, centre locks and strike boxes, requiring drilled holes



## Corner locks

Art. No. 05.100, 05.103, 05.105, 05.116, 05.117, 05.118, 05.119

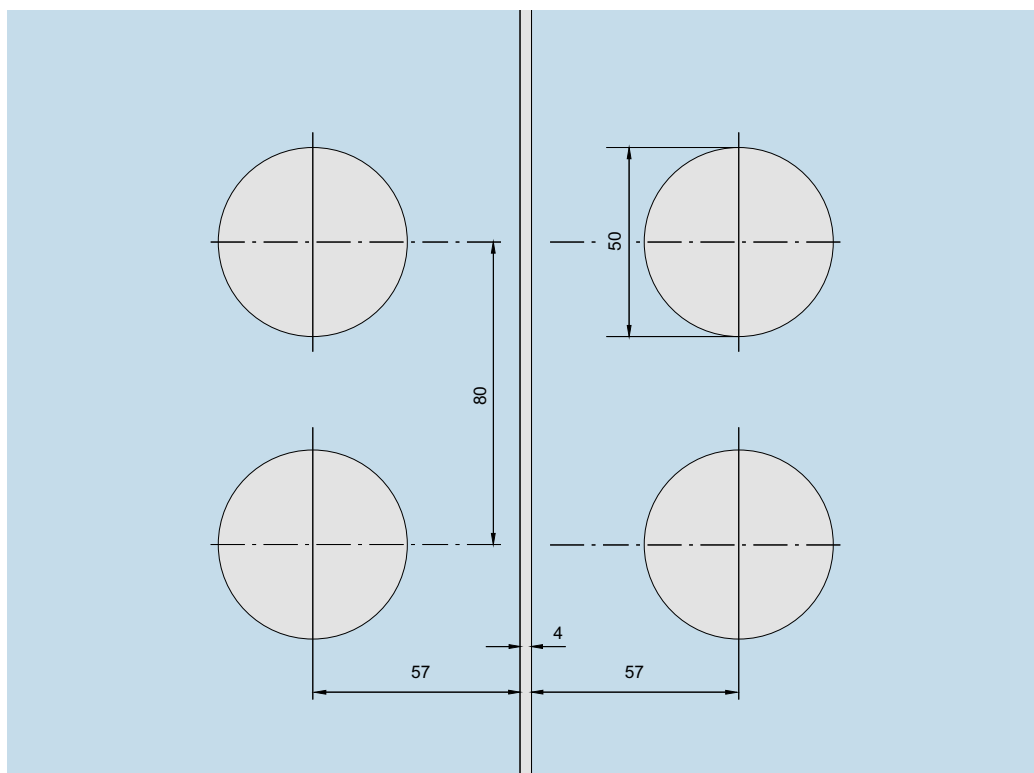
**Scale 1 : 2**



## Strike boxes

Art. No. 05.108, 05.109

**Scale 1 : 2**



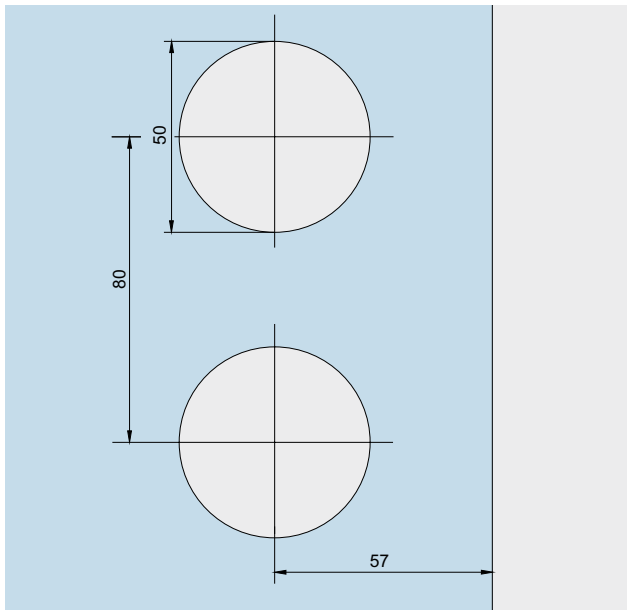
## Centre locks with latch and lock bolts, and strike boxes

Art. No. 05.224, 05.225, 05.226, 05.227, 05.240, 05.241, 05.244, 05.245, 05.250, 05.251, 05.252, 05.253

**Scale 1 : 2**



# Glass preparation for centre locks and strike boxes, requiring drilled holes



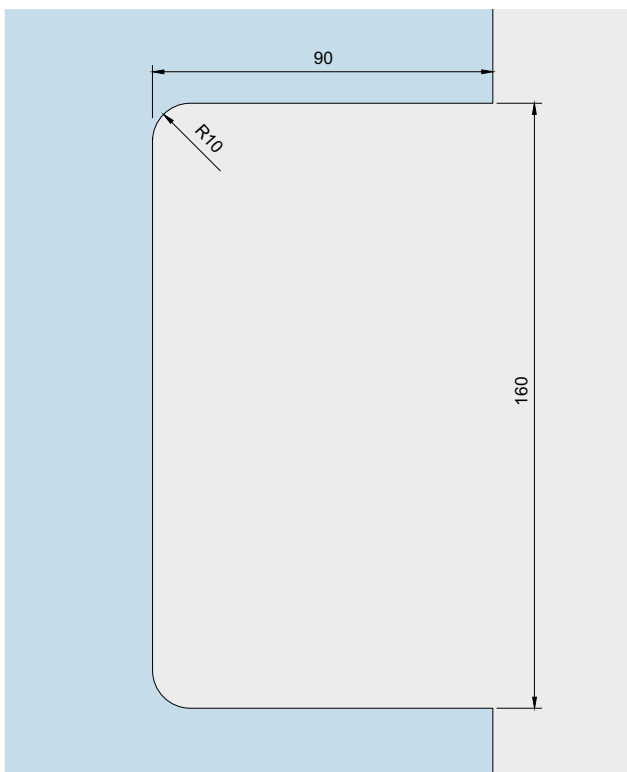
## Centre locks

Art. No. 05.250, 05.251, 11.216, 11.217, 11.220, 11.221, 11.224, 11.225

## Strike boxes for centre locks

Art. No. 05.252, 05.253, 11.206, 11.207

**Scale 1 : 2**



## Centre locks with nightlatch function, hook bolts and strike boxes

Art. No. 05.200, 05.201, 05.202

**Scale 1 : 2**

# Content

## Wall connection profile

194	<b>General information</b>
195	<b>Components</b>
204	<b>Accessories</b>
226	<b>Safety-related information</b>



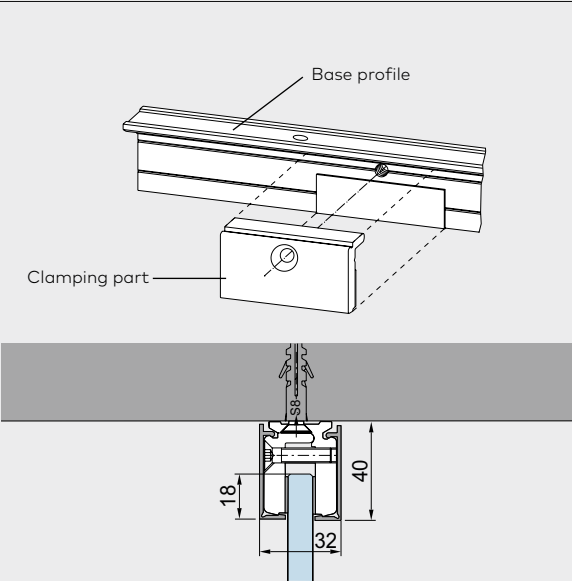
**Wall connection  
profile**

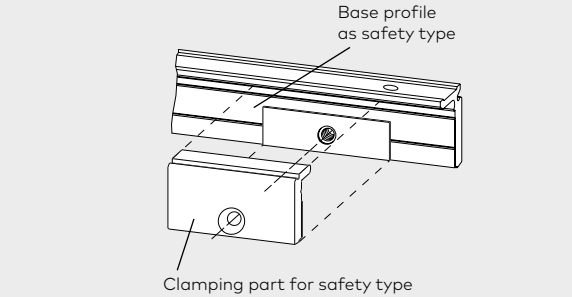
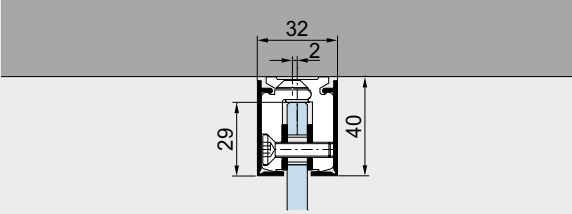
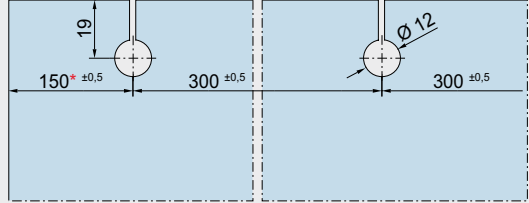
# Wall connection profiles

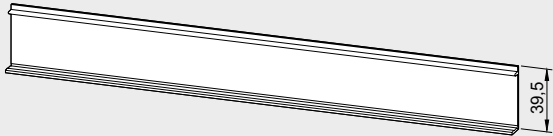
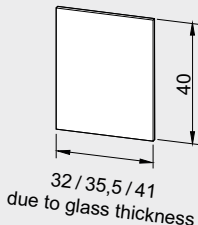
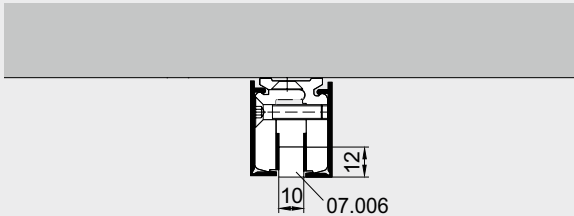
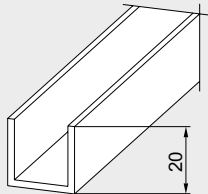
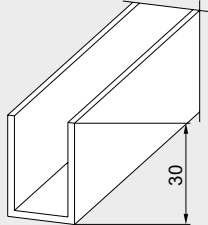
Consisting of: base profile, with bore holes (every 300 mm), incl. clamping parts with screws and gasket strips.

## Application:

e. g. all around frame system for toughened glass assemblies, with fittings on sides and ceiling. The safety type prevents free hanging glass elements from falling down, by fixing the clamping fitting through glass holes. 15 kg load for each clamping part, torque for fixing screws 15 Nm (M 6 = Allan key size 4).

	Product description	Glass thickness	Art. No.
	<b>Base profile</b> 6,000 mm Stock length	8 mm	<b>07.042</b>
		10 mm	<b>07.001</b>
		12 mm	<b>07.002</b>
		12.7 mm	<b>07.045</b>
		13.5 mm	<b>07.046</b>
		15 mm	<b>07.047</b>
		17 mm	<b>07.048</b>
		19 mm	<b>07.049</b>
	<b>Fixed length</b>	8 mm	<b>07.050</b>
		10 mm	<b>07.051</b>
		12 mm	<b>07.052</b>
		12.7 mm	<b>07.055</b>
		13.5 mm	<b>07.056</b>
		15 mm	<b>07.057</b>
		17 mm	<b>07.058</b>
		19 mm	<b>07.059</b>
	<b>Clamping part</b> (addition/replacement) 60 mm long, with screws and gasket strips	8 mm	<b>07.043</b>
		10 mm	<b>07.004</b>
		12 mm	<b>07.005</b>
		12.7 mm	<b>07.085</b>
		13.5 mm	<b>07.086</b>
		15 mm	<b>07.087</b>
		17 mm	<b>07.088</b>
		19 mm	<b>07.089</b>

Safety type	Product description	Glass thickness	Art. No.
 	<b>Base profile as safety type</b> <b>6,000 mm Stock length</b>	8 mm 10 mm	<b>07.060</b> <b>07.061</b>
	<b>Fixed length</b>	8 mm 10 mm	<b>07.066</b> <b>07.067</b>
	Weight in kg/m: Aluminum		1.200
	<b>Clamping part (addition/replacement) for Safety type</b> 60 mm long, with screws and gasket strips	8 mm 10 mm	<b>07.063</b> <b>07.064</b>
	<b>Glass preparation for Safety type</b>		
	 *If glass and profile are aligned.		

	Product description	Glass thickness	Art. No.
	<b>Clip on cover profile</b> stainless steel, satin and stainless steel polished door available  Weight in kg/m: Aluminum 0.216 Stainless steel 0.366  6,000 mm stock length fixed length		<b>07.003</b> <b>07.053</b>
 <p>32 / 35,5 / 41 due to glass thickness</p>	<b>End cap</b>  Weight in kg/pc: Aluminum 0.003 Brass 0.090 Stainless steel 0.090  Aluminum 0.003 Brass 0.010 Stainless steel 0.010  Aluminum 0.003 Brass 0.011 Stainless steel 0.012	8 mm and 10 mm   12–13.5 mm   15–19 mm	<b>07.007</b>   <b>07.044</b>   <b>07.065</b>
	<b>Filler block, 10 x 12 mm</b>  6,000 mm stock length fixed length  Weight in kg/m: Aluminum 0.325		<b>07.006</b> <b>07.054</b>
	<b>U-profile</b> 20 x 20 x 20 x 2 mm  6,000 mm stock length fixed length  Weight in kg/m: Aluminum 0.304		<b>07.092</b> <b>07.093</b>
	<b>U-profile</b> 30 x 20 x 30 x 2 mm  6,000 mm stock length fixed length  Weight in kg/m: Aluminum 0.304		<b>07.097</b> <b>07.096</b>

## Space for your notes

# Content

## MR 22/MR 28

200 **Components**

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**MR 22/MR 28**

# Wall connecting frame system MR 22 and MR 28

Comprising a frame profile (series-drilled), a clamping profile and two contact rubber extrusions (PVC, grey).

These decorative and elegant frame solutions are characterised by their remarkably easy installation. The viewface width in the case of the MR 22 is a mere 22 mm and in the case of the MR 28 it is just 28 mm. Suitable for glass thicknesses of 8 and 10 mm. No load transfer by the profiles. Can be readily

removed and re-installed elsewhere. The MR 28 features an additional screw-fixing channel for connecting angle brackets and enables combination with mullion profiles for the vertical connection of several glass panels and also abutment to frame systems AT 44 and AT 50.

**Applications:**  
e.g. surrounding frame for toughened glass systems for fixing to walls and ceilings

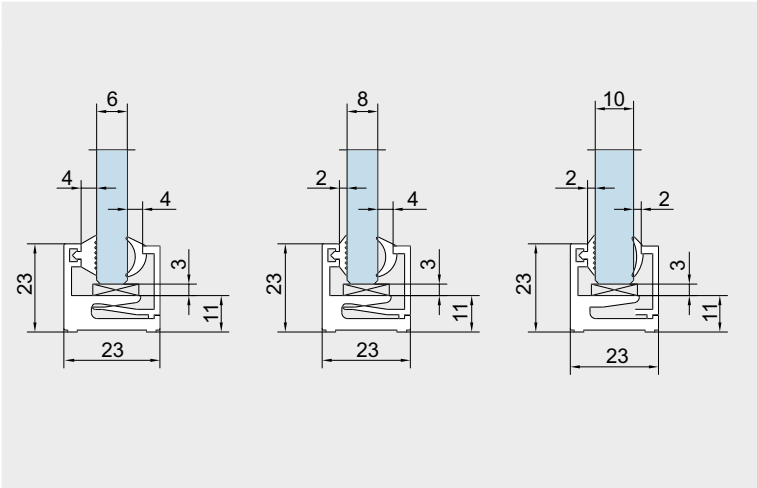
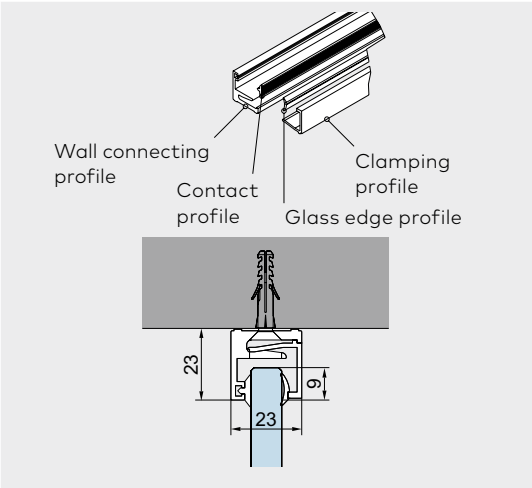
## MR 22

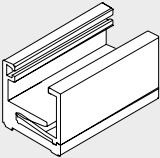
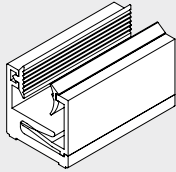
max. glass dimensions:  
height: 2,500 mm  
width: 1,000 mm

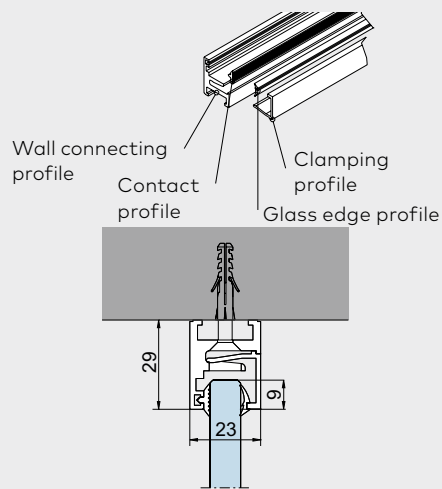
## MR 28

max. glass dimensions:  
height: 2,800 mm  
width: 1,000 mm

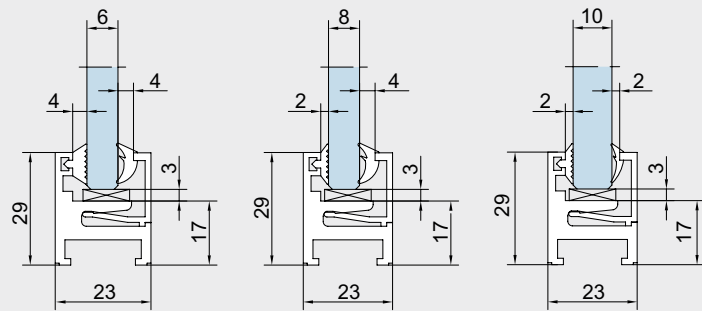
Base profile MR 22

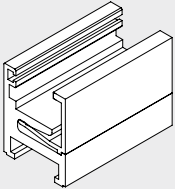
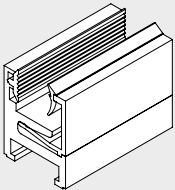
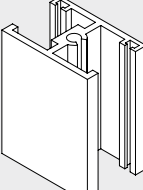
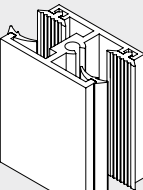


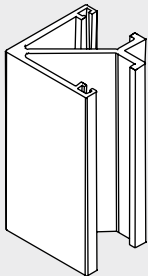
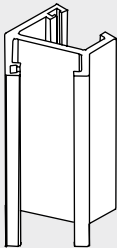
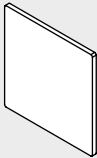
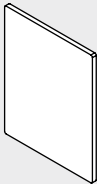
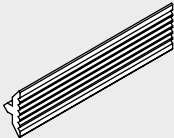
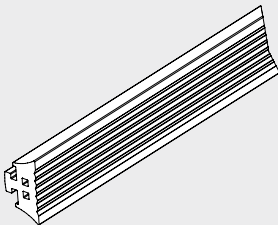
	Features and data	Art. No.
	<b>MR 22</b> in 6,000 mm stock length, without PVC profile  Weight in kg/m: Aluminum 0.648	<b>07.240</b>
	<b>MR 22</b> in fixed length  Weight in kg/m: Aluminum 0.648	<b>07.250</b>

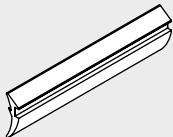
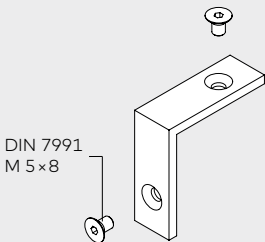
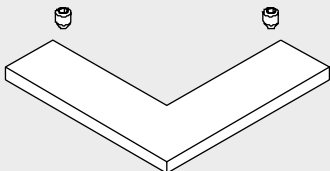
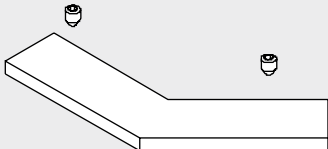
**Base profile MR 28****Attention:**

Profiles are only delivered with straight cuts. Allowances in lengths of profiles to ensure producibility of bevel cuts have to be planned by the customer. The georgian bar profile must be prepared in addition on both sides. Please consider installation instruction



	Features and data	Art. No.
	<b>MR 28</b> in 6,000 mm stock length, without PVC profile  Weight in kg/m: Aluminum 0.802	<b>07.241</b>
	<b>MR 28</b> in fixed length  Weight in kg/m: Aluminum 0.802	<b>07.251</b>
	<b>Georgian bar profile MR 28</b> in 6,000 mm stock length, without PVC profile  Weight in kg/m: Aluminum 0.542	<b>07.242</b>
	<b>Georgian bar profile MR 28</b> in fixed length  Screws for fixation at MR 28 base profile are not included in delivery. Recommendation: counter sunk screw 4.2 mm x 32 mm  Weight in kg/m: Aluminum 0.542	<b>07.252</b>

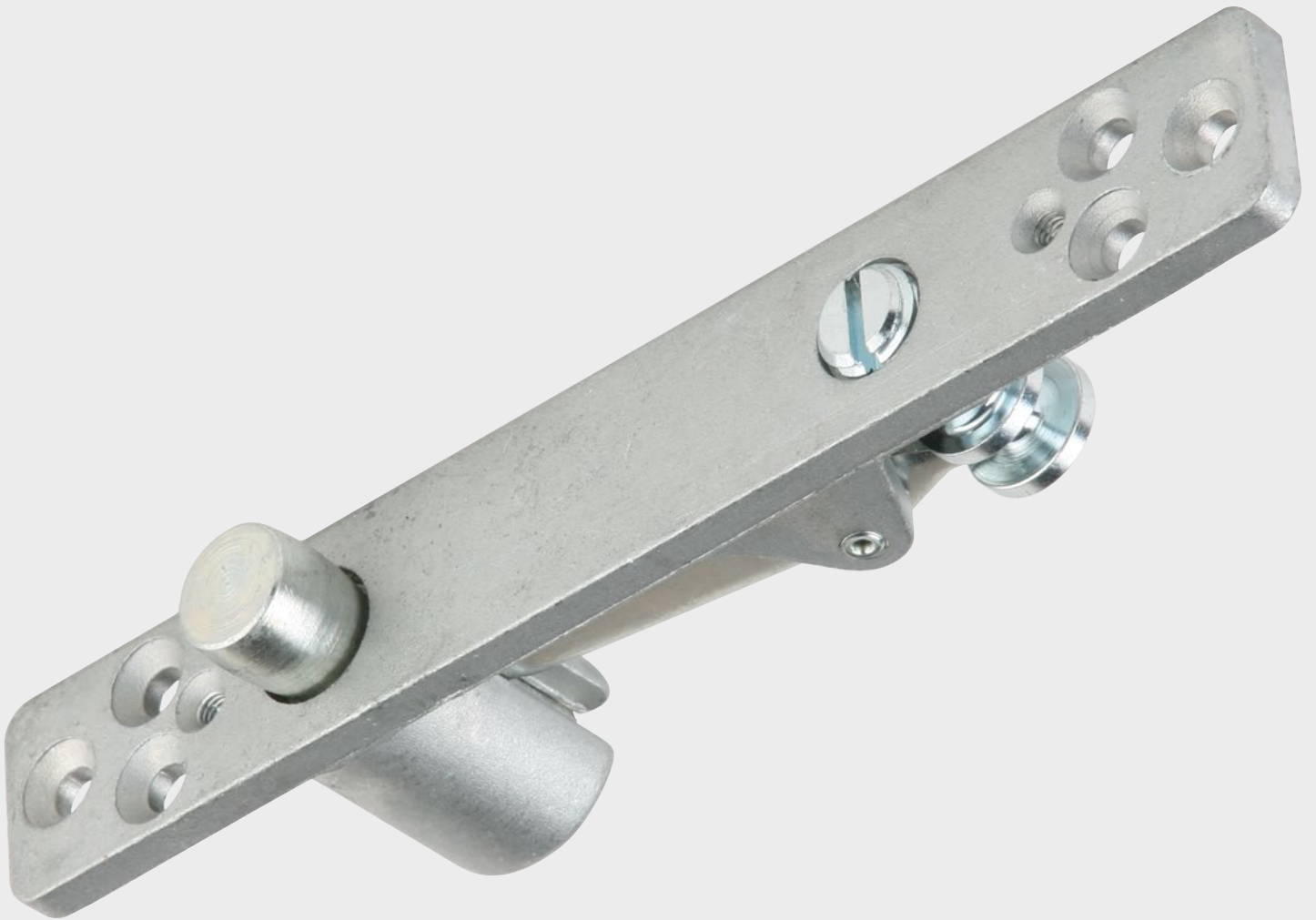
	Product description	Art. No.
	<b>MR 28 georgian bar profile 90°</b> in 6,000 mm stock length  Weight in kg/m: Aluminum 0.598	<b>07.258</b>
	<b>MR 28 georgian bar profile 135°</b> in 6,000 mm stock length  Weight in kg/m: Aluminum 0.466	<b>07.259</b>
	<b>End mounted plate MR 22</b>  Weight in kg/pc: Aluminum 0.002	<b>07.245</b>
	<b>End mounted plate MR 28</b>  Weight in kg/pc: Aluminum 0.002	<b>07.246</b>
	<b>Contact profile</b> 2 mm thick, grey  fixed length stock length 50 m  Weight in kg/m: PVC 0.023	<b>07.255</b> <b>07.265</b>
	<b>Contact profile</b> 4 mm thick, grey  fixed length stock length 50 m  Weight in kg/m: PVC 0.037	<b>07.256</b> <b>07.266</b>

	Product description	Art. No.
	<b>Glass wedge profile</b> 2 mm thick, grey  fixed length stock length 50 m  Weight in kg/m: PVC 0.016	<b>07.253</b> <b>07.263</b>
	<b>Glass wedge profile</b> 4 mm thick, grey  fixed length stock length 25 m  Weight in kg/m: PVC 0.034	<b>07.254</b> <b>07.264</b>
	<b>Corner connection set MR 28,</b> 4 pieces per set  8 screws DIN 7991 M 5 x 8 included in scope of delivery  Weight in kg/pc: Aluminum 0.0021	<b>07.247</b>
	<b>Corner connection for MR 28</b> <b>georgian bar profil 90°</b>  2 grub screws DIN 916 M 4 x 5 included in scope of delivery	<b>07.248</b>
	<b>Corner connection for MR 28</b> <b>georgian bar profil 135°</b>  2 grub screws DIN 916 M 4 x 5 included in scope of delivery	<b>07.249</b>

# Content

## Accessories

207	<b>Top bearings, pivots</b>
209	<b>Floorbearings, lock keeper plate, floor sockets</b>
210	<b>Wall connection and cylinders</b>
213	<b>Profiles for UNIVERSAL</b>
212	<b>Gaskets</b>
214	<b>Clamping fittings</b>
216	<b>Accessories for door closer</b>
218	<b>Handle bars, door knobs, recessed pull grips</b>
226	<b>Safety-related information</b>



# Accessories

## Perfection in detail

Original accessories for patch fittings, door rails and locks, matched to the DORMA-Glas product range, are available.

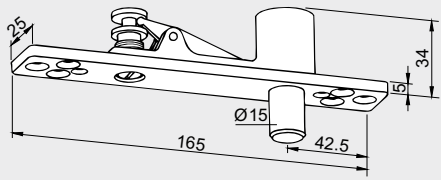
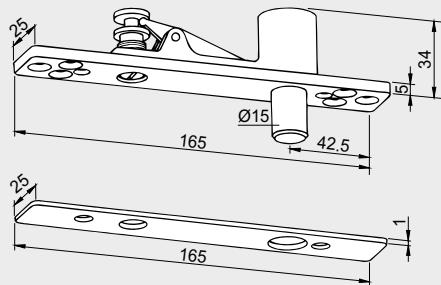
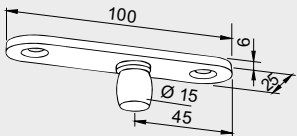
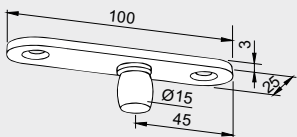
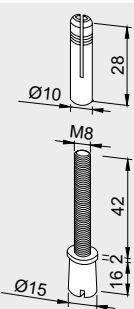
They ideally complement the range of DORMA-Glas hardware to optimise the technical excellence and cost effectiveness of toughened glass systems of all types.

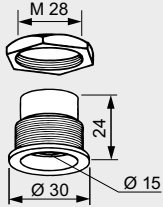
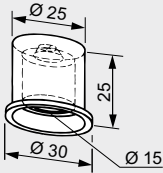
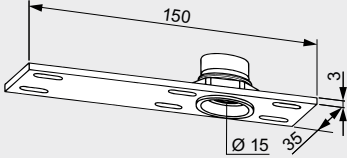
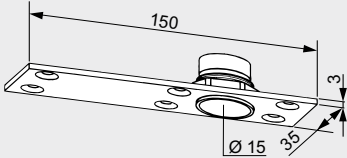
Aside from functional components such as special floor pivots – including models for wet rooms – DORMA-Glas also offers a choice of security-relevant options. Their installation further enhances the exceptional functional efficiency, reliability and long service life expected of DORMA-Glas systems.



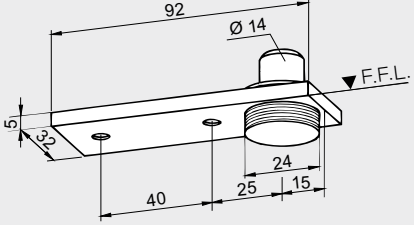
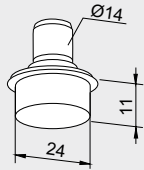
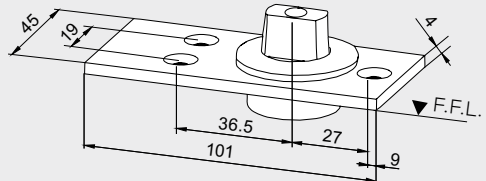
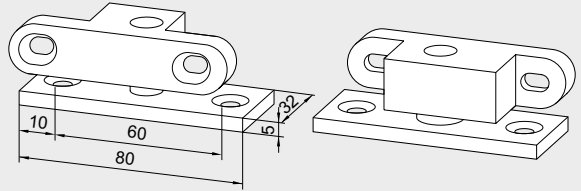
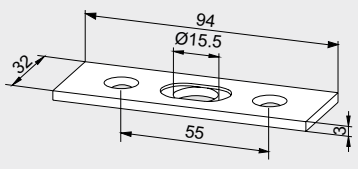
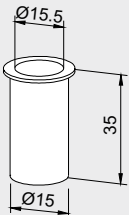
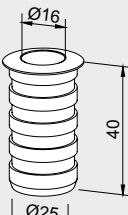
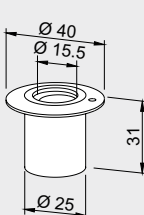
# Top bearing, pivots for UNIVERSAL, BEYOND, EA, TP/TA, MANET

**Advisory:** Please note that the upper pivots for UNIVERSAL and those for MUNDUS are not mutually compatible. The spigot diameters of the MUNDUS fittings vary.

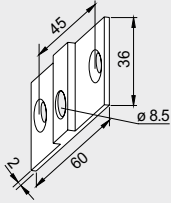
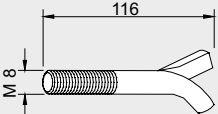
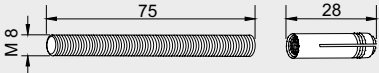
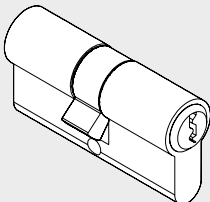
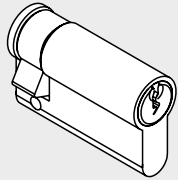
	Product description	Art. No.
	<b>PT 21 frame portion top centre</b> with removable pin  Weight in kg: 0.335  15 mm Ø	<b>01.117</b>
	<b>PT 21 frame portion top centre</b> with removable pin, with cover plate  Weight in kg: 0.345  15 mm Ø	<b>01.118</b>
	<b>PT 24 pivot</b> with fixing plate, material thickness 6 mm, <b>to let into ceiling</b>  Weight in kg: 0.058 Aluminum  15 mm Ø	<b>01.116</b>
	<b>PT 24 pivot</b> with fixing plate, material thickness 3 mm, <b>to screw on the ceiling</b>  Weight in kg: Aluminum 0.042 Stainless steel 0.074  15 mm Ø	<b>01.123</b>
	<b>PT 25 pivot</b> with plug  Weight in kg: 0.044  15 mm Ø	<b>01.115</b>

	Product description	Art. No.
	<b>Top pivot bearing,</b> brass, nickel plated, for installation in frame or ceiling for 15 mm Ø pivot pin  Weight in kg: 0.065	<b>01.129</b>
	<b>Top pivot bearing</b> aluminum, for installation in frame or ceiling for 15 mm Ø pivot pin  Weight in kg: 0.018	<b>01.130</b>
	<b>Top pivot bearing</b> with steel fixing plate, for 15 mm Ø pivot pin  Weight in kg: 0.160	<b>01.131</b>
	<b>Top pivot bearing</b> with aluminum fixing plate, for 15 mm Ø pivot pin  Weight in kg: 0.099	<b>01.132</b>

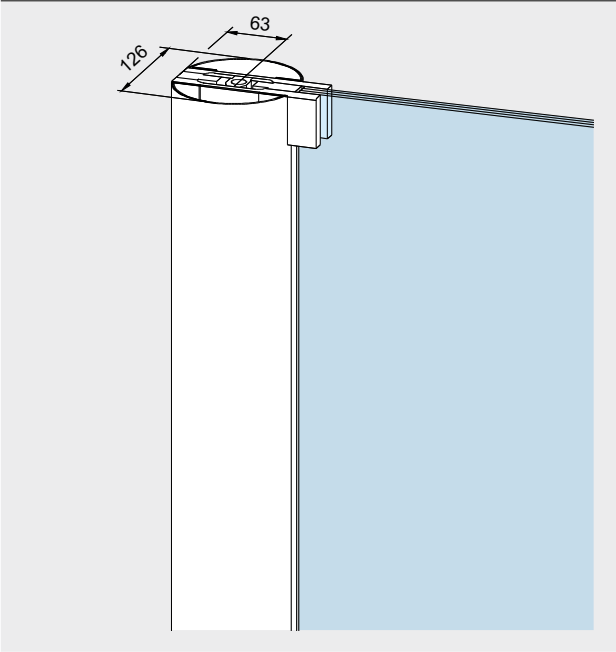
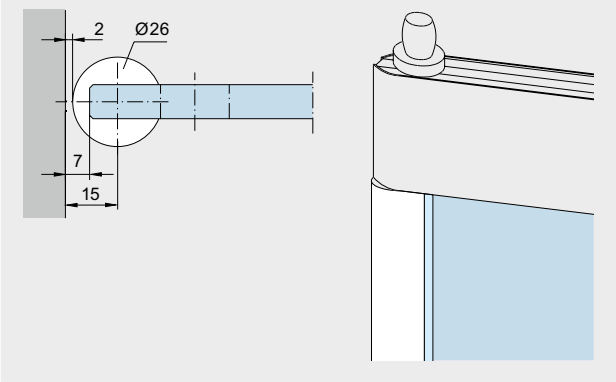
# Floor bearing, lock keeper plate, floor socket for UNIVERSAL, BEYOND, EA, TP/TA, MANET

	Product description	Art. No.
	<b>Floor pivot bearing</b> with round pivot 14 mm Ø, and cover plate; height adjustable by 5 mm max. door weight 100 kg  Weight in kg: Aluminum 0.155 Brass 0.170 Stainless steel 0.169	<b>01.106</b>
	<b>Floor pivot bearing</b> with round pivot 14 mm Ø and pin 24 mm Ø max. door weight 100 kg  Weight in kg: 0.078	<b>01.107</b>
	<b>Floor bearing</b> with profile spindle (longer spindle on request), max. door weight 200 kg  Stainless steel, max. door weight 200 kg  Weight in kg: 0.254	<b>04.602</b>
	<b>Floor pivot bearing for damp environments,</b> with insert for UNIVERSAL PT 10 for mounting onto floor surface max. door weight 80 kg  Weight in kg: 0.195	<b>01.137</b>
	<b>Lock keeper plate,</b> stainless steel, two parts, adjustable $\pm 5$ mm  Weight in kg: 0.048	<b>05.190</b>
	<b>Floor socket,</b> zinc coated brass for lock bolt  Weight in kg: 0.020	<b>05.192</b>
	<b>Floor socket, aluminum, with spring and plastic stopper,</b> dirt protection  Weight in kg: 0.026	<b>05.193</b>
	<b>Eccentric socket, eccentric, zinc coated brass,</b> with adjustable plastic socket insert  Weight in kg: 0.020	<b>05.194</b>

# Wall connection and cylinders for UNIVERSAL, BEYOND, EA, TP/TA, MANET

	Product description	Art. No.
	<b>Fixing plate</b> for overpanel patches from UNIVERSAL, EP and EA program  Weight in kg: Aluminum 0.019 Brass 0.045  Stainless steel not available, satin chrome on brass supplied.	<b>01.127</b>
	<b>Wall anchor</b> for overpanel patches from UNIVERSAL, EP and EA program with thread M 8  Weight in kg: 0.040	<b>01.133</b>
	<b>Threaded rod</b> for overpanel patches from UNIVERSAL, EP and EA program M 8 with plug  Weight in kg: 0.032	<b>01.134</b>
	<b>Profile cylinder</b> length 61 mm, differently keyed, with Logo	<b>05.001</b>
	<b>Profile cylinder</b> length 61 mm, equally keyed, with Logo	<b>05.002</b>
	<b>Half-profile cylinder</b> length 31 mm, differently keyed, with Logo	<b>05.003</b>
	<b>Half-profile cylinder</b> length 31 mm, equally keyed, with Logo	<b>05.004</b>

# Profiles for UNIVERSAL

	Product description	Art. No.
	<p><b>Aluminum round profile</b> for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings or door rails (76.5 mm or 100 mm).</p> <p>Please indicate:</p> <ul style="list-style-type: none"><li>• Panel height (max. 2,500 mm, higher dim. on request)</li><li>• Required preparation of the profile for top and bottom fittings</li></ul> <p>Fixed length Stock length 6,000 mm Stock length 3,000 mm</p> <p>Weight in kg/m: Aluminum 4.744</p>	<p><b>03.380</b> <b>03.381</b> <b>03.382</b></p>
	<p><b>Radiused edging strip (only for 10 mm TSG)</b> for fittings with 15 mm/18 mm pivot point. For pinch free doors, (strip is clamped onto free glass edge), Acrylic.</p> <p>Length: up to 4,500 mm (specify height) Length: 2,250 mm</p> <p>Weight in kg/m: 0.408</p>	<p><b>01.230</b> <b>01.231</b></p>

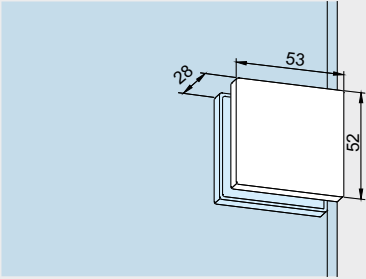
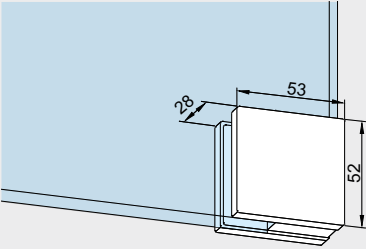
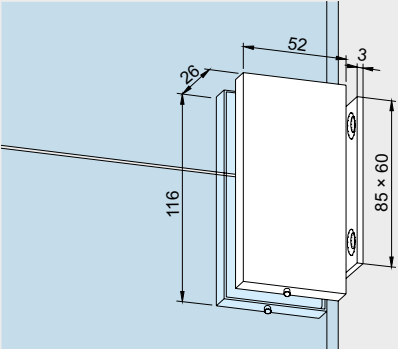
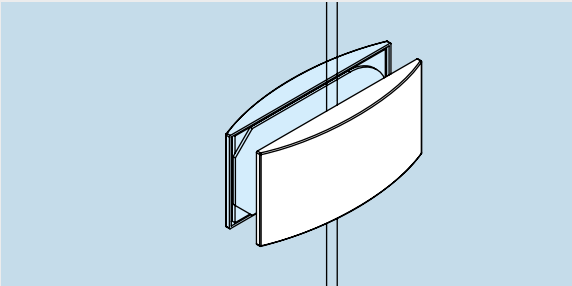
# Gasket sets for UNIVERSAL

Product description	Art. No.	Product description	Art. No.
<b>Gasket sets for 12 mm glass thickness</b>		<b>Gasket sets for 8 mm glass thickness</b>	
for PT10/20/22/29/30/GK30	<b>03.900</b>	for PT10/20/22/29/30/GK30	<b>03.920</b>
for US 10/20/GK50	<b>03.901</b>	for US 10/20/GK50	<b>03.921</b>
for PT40/41/42/GK40/41/42	<b>03.902</b>	for PT40/41/42/GK40/41/42	<b>03.922</b>
for PT51	<b>03.903</b>	for PT51	<b>03.923</b>
for PT60/61/62	<b>03.904</b>	for PT60/61/62	<b>03.924</b>
for PT70/71	<b>03.905</b>	for PT70/71	<b>03.925</b>
for PT80/81	<b>03.906</b>	for PT80/81	<b>03.926</b>
for PT80 semi-high	<b>03.907</b>	for PT80 semi-high	<b>03.927</b>
for PT90/91	<b>03.908</b>	for PT90/91	<b>03.928</b>
for sidelight connector 01.153	<b>03.909</b>	for sidelight connector 01.153	<b>03.929</b>

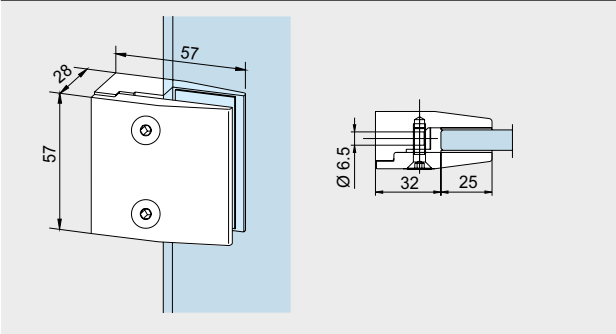
**Note:** All fittings with a 15 mm pivot point are technically only designed for 10 mm glass thickness !

**Space for your notes**

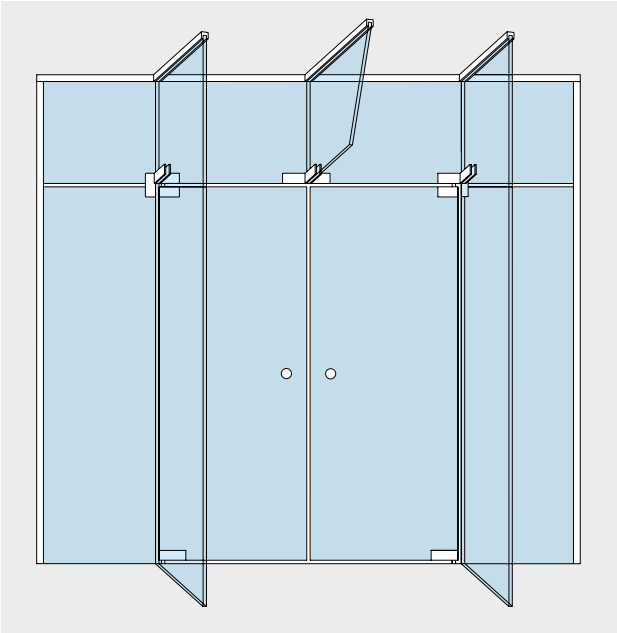
# Clamping fittings

	Product description	Art. No.
	<b>PT 90 Srew on fitting</b>  Weight in kg: Aluminum 0.120 Brass 0.160 Stainless steel 0.155	<b>07.021</b>
	<b>PT 91 corner fitting</b>  Weight in kg: Aluminum 0.120 Brass 0.160 Stainless steel 0.155	<b>07.023</b>
	<b>Side connector</b> with fixing plate  Weight in kg: Aluminum 0.313 Stainless steel 0.376  Also suitable for 12 mm glass thickness	<b>01.153</b>
	<b>Overpanel-sidelight connector</b>  Weight in kg: Aluminum 0.146	<b>12.536</b>



Product description		Glass thickness	Art. No.
	<b>Clamping fitting,</b> aluminum, with passage hole for M 6 thread	8 mm	<b>07.037</b>
		10 mm	<b>07.038</b>
	Weight in kg: Aluminum 0.180	12 mm	<b>07.039</b>

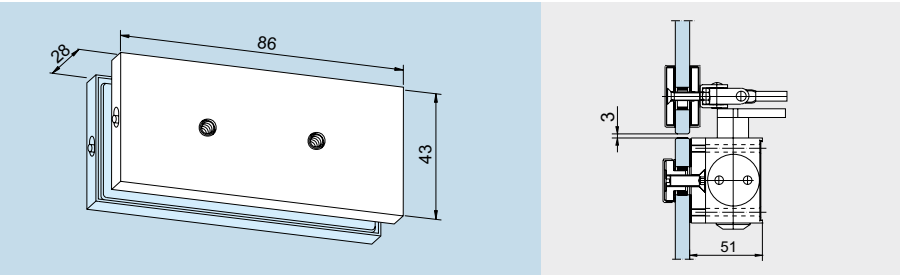
# Usage and assembly of fins



Fin fittings and corner connectors do not have a supporting structure. Overpanels, side-lights and fins have to be fixed securely to the ceiling by DORMA-Glas wall connecting profiles or similar systems.

The need for stiffeners and the requisite glass thickness must be specified by a properly qualified structural engineer.

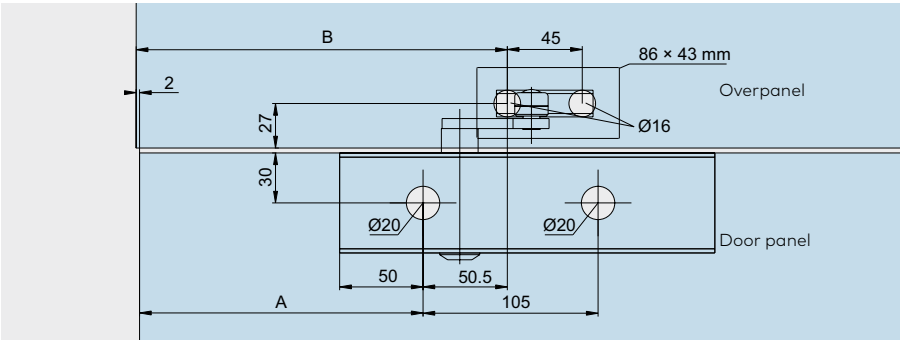
# Accessories for door closer dormakaba TS 73 V



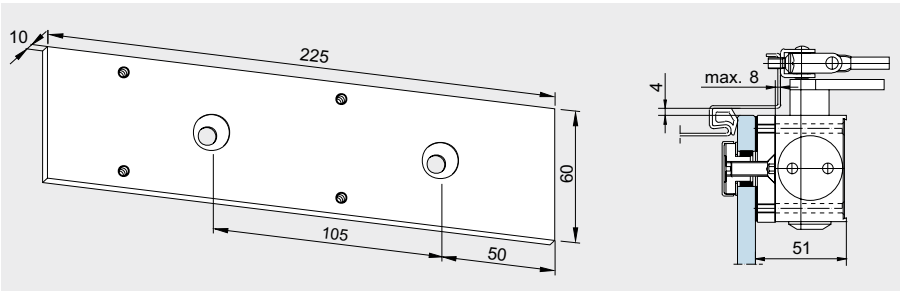
**Fixing plate**  
for dormakaba TS 73 V,  
closer arm for overpanel

**Art. No. 12.330**

Weight in kg:  
Aluminum 0.132



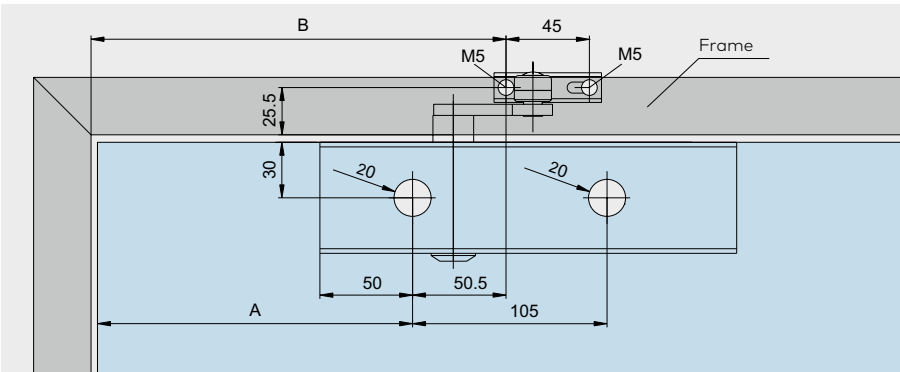
Pivot point fitting	A	B
EA (AT)	195	248
UNIVERSAL/EP/ MUNDUS	245	298
STUDIO/JUNIOR	170	223
UNIVERSAL Arcos	262	315



**Fixing plate**  
225 mm,  
for dormakaba TS 73 V

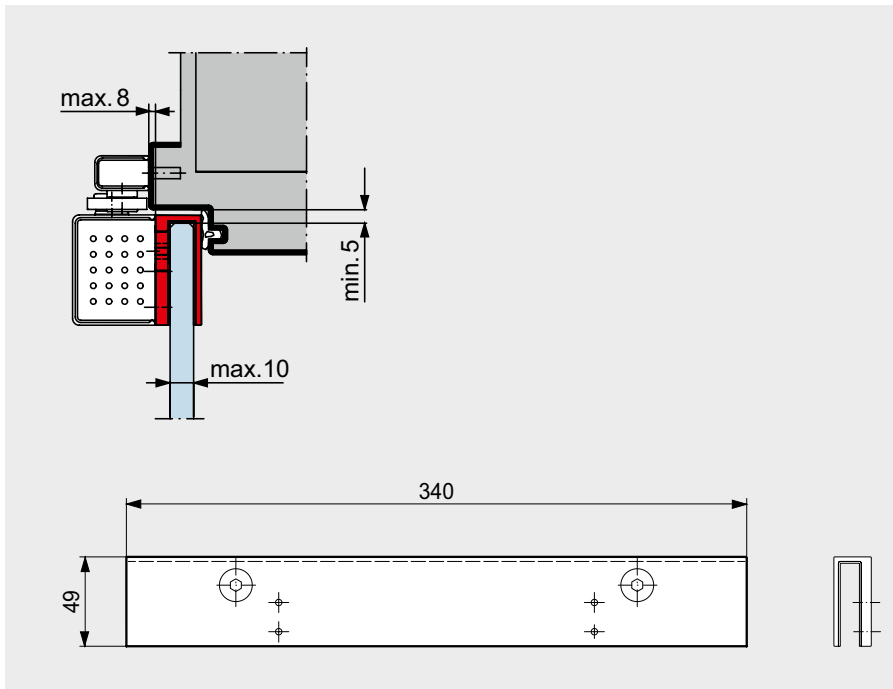
**Art. No. 12.335**

Weight in kg  
Aluminum 0.289



Pivot point fitting	A
EA (AT)	195
UNIVERSAL/EP/ MUNDUS	245
STUDIO/JUNIOR	170
UNIVERSAL Arcos	262

# Door closer dormakaba TS 97



## **dormakaba TS 97 including saddle plate**

For connecting the closer to toughened glass doors – no glass recess machining or drilling required.

The dormakaba TS 97 with this special glass fixing bracket should be used with STUDIO Arcos and OFFICE Arcos/OFFICE Junior hinges.

## Pull handles, door knobs and recessed pull grip

The pull handle/knob system is designed for glass of 8, 10 and 12 mm thickness.

The pull handles can be fixed to both sliding and pivoting (swing) doors on one face using the appropriate connectors or on both faces by through-bolting (back-to-back arrangement).

Due to a flat structure recessed pull grips are also suitable for sliding doors.

The single-point fixings and through bolts are included as standard equipment in the scope of supply.

The pull handles can be fitted horizontally, vertically or in a handrail arrangement.


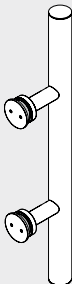
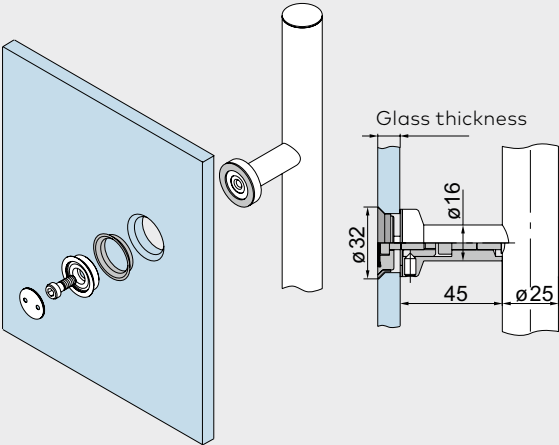
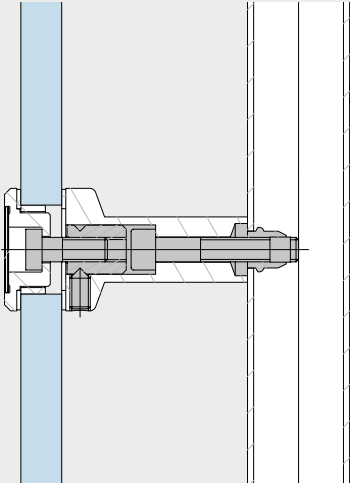
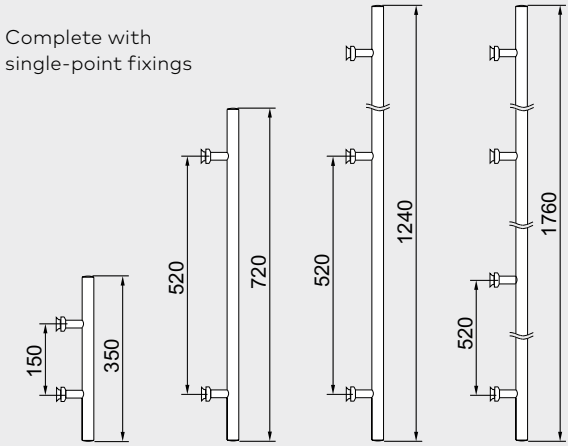
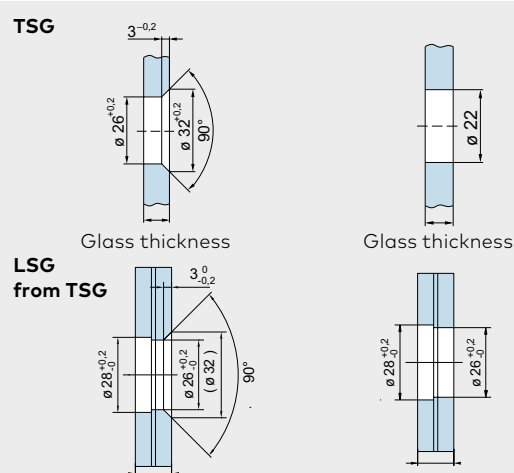


# Pull handle pairs

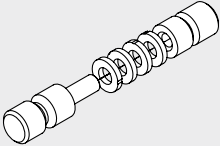
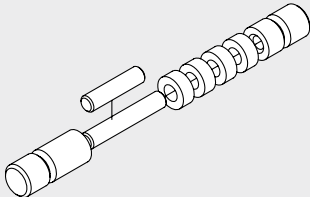
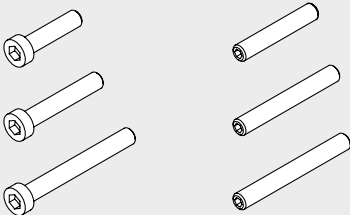
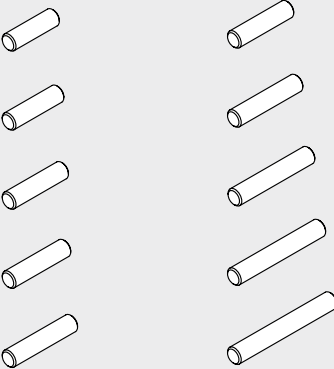
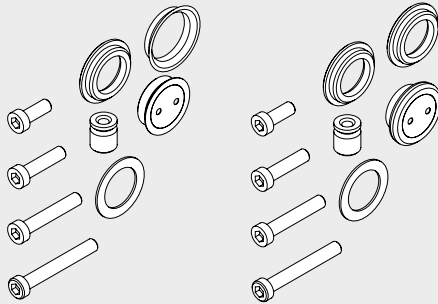
	Product description	Glass thickness	Art. No.
	<b>Pair of handle bars satin stainless steel</b> length 350 mm, 2 fixing points, weight in kg: 1.254 material 1.4305 do., material 1.4404	8/10/12 mm	<b>21.267*</b> <b>21.247</b>
	<b>Pair of handle bars aluminum</b> length 350 mm, 2 fixing points, weight in kg: aluminum 1.326	8/10/12 mm	<b>03.400</b>
	<b>Pair of handle bars satin stainless steel</b> length 720 mm, 2 fixing points, weight in kg: 1.947 material 1.4305 do., material 1.4404	8/10/12 mm	<b>21.270*</b> <b>21.250</b>
	<b>Pair of handle bars aluminum</b> length 720 mm, 2 fixing points, weight in kg: aluminum 2.423	8/10/12 mm	<b>03.402</b>
	<b>Pair of handle bars satin stainless steel</b> length 1,240 mm, 3 fixing points, weight in kg: 3.400 material 1.4305 do., material 1.4404	8/10/12 mm	<b>21.273*</b> <b>21.253</b>
	<b>Pair of handle bars satin stainless steel</b> length 1,760 mm, 4 fixing points, weight in kg: 5.000 material 1.4305 do., material 1.4404	8/10/12 mm	<b>21.276*</b> <b>21.256</b>

\* Conversion sets for back to back pull handles for timber doors resp. other glass thicknesses see under "Spacing adjustment for pull handles and door knobs", page 221.

# Pull handles single

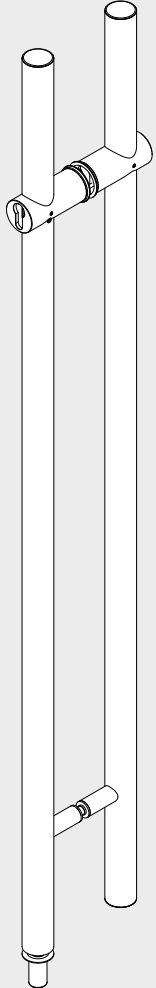
	Product description	Glass thickness	Art. No.
	<b>Pull handles with single-point fixings, countersunk stainless steel</b>	8/10/12 mm	
	Pull handle 350 mm with 2 fixings, material 1.4305		<b>29.268</b>
	do., material 1.4404		<b>29.269</b>
	Pull handle 720 mm with 2 fixings, material 1.4305		<b>29.271</b>
	do., material 1.4404		<b>29.272</b>
	Pull handle 1,240 mm with 3 fixings, material 1.4305		<b>29.274</b>
	<b>Pull handles with single-point fixings, clamping disc</b>	8/10/12 mm	
	Pull handle 350 mm with 2 fixings, material 1.4305		<b>21.240</b>
	Pull handle 720 mm with 2 fixings, material 1.4305		<b>21.241</b>
	do., material 1.4404		<b>21.281</b>
	Pull handle 1,240 mm with 3 fixings, material 1.4305		<b>21.242</b>
	Pull handle 1,760 mm with 4 fixings, material 1.4305		<b>21.243</b>
			
			
			
			
<p>Countersunk bore on pull handle and door knob, one side fixing</p> <p>Cylindrical bore on pair of pull handles and door knobs, back-to-back</p>			

# Spacing adjustment for pull handles and door knobs

	Product description	Door thickness	Art. No.
 <p>Distance washer 2 mm</p>	<b>Conversion set 1 for glass doors,</b> pair of pull handles / knob back-to-back	13.5 – 21.5 mm	<b>21.285</b>
	without distance washer with 1 distance washer with 2 distance washers with 3 distance washers with 4 distance washers	13.5 mm 15 mm 17.5 mm 19 mm 21.5 mm	
 <p>Distance washer 5 mm</p>	<b>Conversion set 2 for timber doors,</b> pair of pull handles / knob back-to-back	20 – 40 mm	<b>21.286</b>
	without distance washer with 1 distance washer with 2 distance washers with 3 distance washers with 4 distance washers	20 mm 25 mm 30 mm 35 mm 40 mm	
 <p>Set 3                      Set 4</p>	<b>Conversion set 3 for glass / timber doors*,</b> pair of pull handles / knob back-to-back, countersunk 15 - 40 mm glass / timber thickness		<b>21.287</b>
	<b>Conversion set 4 for glass / timber doors*,</b> pair of pull handles / knob back-to-back, clamping disc 15 - 40 mm glass / timber thickness		<b>21.288</b>
 <p>Set 5                      Set 6</p>	<b>Conversion set 5 for glass doors*,</b> recessed pull grip 13.5 - 21.5 mm glass thickness		<b>21.295</b>
	<b>Conversion set 6 for timber doors*,</b> recessed pull grip 20 - 40 mm timber thickness		<b>21.296</b>
 <p>Set 7                      Set 8</p>	<b>Conversion set 7 for glass / timber doors*,</b> for pull handles fixed on both sides to pull handle fixed on one side, countersunk 8 - 40 mm glass / timber thickness 1 set per pull handle fixing		<b>21.297</b>
	<b>Conversion set 8 for glass / timber doors*,</b> for pull handles fixed on both sides to pull handle fixed on one side, clamping disc 8 - 40 mm glass / timber thickness 1 set per pull handle fixing		<b>21.298</b>

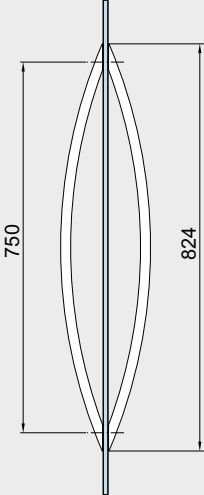
\*Not suitable for Arcos pull handles 26.500 / 26.510

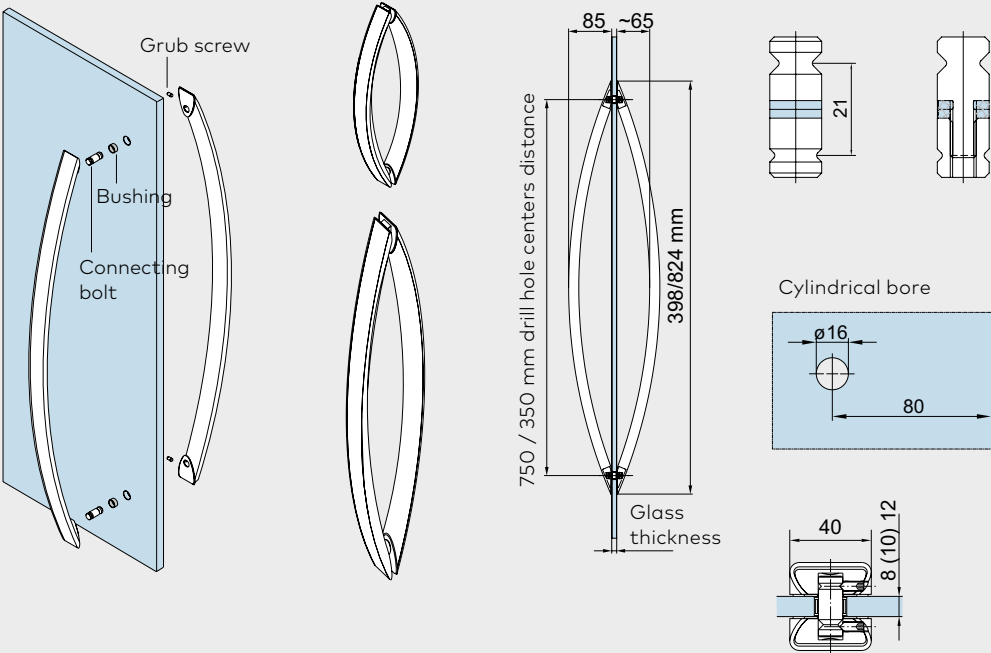
# Pair of pull handles

	Product description	Glass thickness	Art. No.
	<b>Pair of stainless steel handlebars,</b> lockable on both sides, prepared for standard PZ, length 1,200 mm, incl. floor socket	8 - 17.5 mm	<b>21.580</b>
	<b>Pair of stainless steel handlebars,</b> lockable on one side, prepared for standard PZ, length 1,200 mm, incl. floor socket  Further information, e.g. on the required profile cylinder length, can be found in our detail on the sheets 29-115 to 29-116.	8 - 17.5 mm	<b>21.581</b>

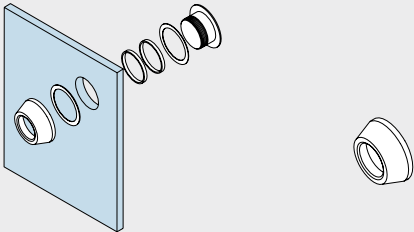
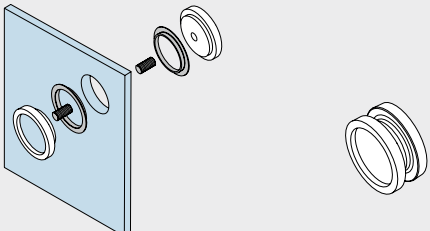
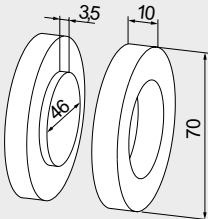
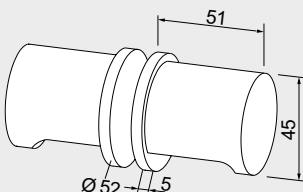
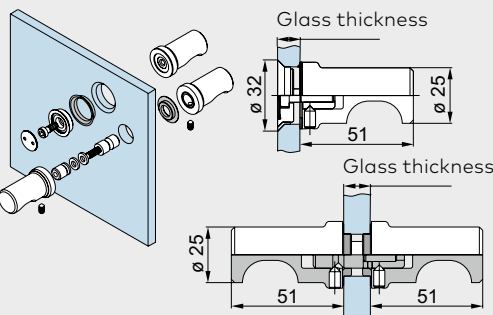
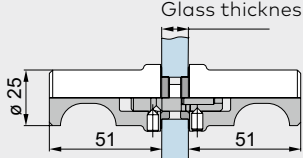


# Arcos pull handle

	Product description	Glass thickness	Art. No.
	<b>Arcos pair of pull handle</b> incl. connecting bolt Aluminium, stainless steel look	8/10/12 mm	
	Pull handle 350 mm with 2 fixings Pull handle 750 mm with 2 fixings		<b>26.500</b> <b>26.510</b>

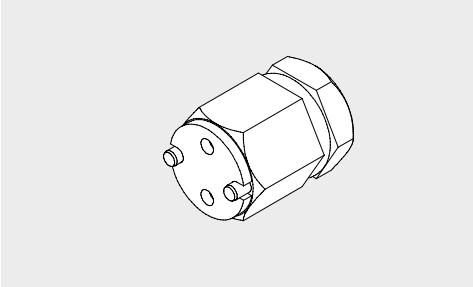
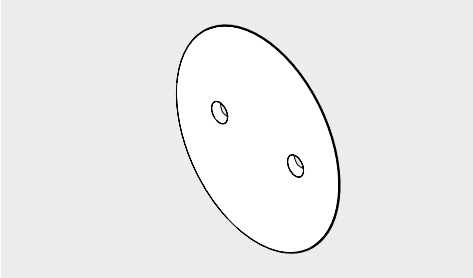


# Recessed pull grips and door knobs

	Product description	Glass thickness	Art. No.
 <p>Ø 38 mm Glass bore</p>	<b>Recessed pull grip</b> Ø 50 mm	8/10/12 mm	<b>21.290</b>
 <p>Ø 50 mm Glass bore</p>	<b>Recessed pull grip</b> Ø 60 mm  <b>Recessed pull grip with grip hole</b> Ø 60 mm	8/10/12 mm  8 mm 10 mm 12 mm	<b>21.291</b>  <b>21.292</b> <b>21.293</b> <b>21.294</b>
 <p>Ø 50 mm Glass bore</p>	<b>Recessed pull grip</b> aluminum to be glued onto the glass Weight in kg: 0.072		<b>07.200</b>
 <p>Ø 20 mm Glass bore</p>	<b>Door knob,</b> aluminum Weight in kg: 0.400		<b>07.201</b>
 <p>Single-point fixing clamping disc (Ø 22 mm)</p> <p>(Glass preparation please see under "pull handles single", page 220)</p>	<b>Door knob one side fixing</b>  Door knob with single-point fixing, countersunk Door knob with single-point fixings, clamping disc	8/10/12 mm	<b>21.422</b> <b>21.426</b>
	<b>Door knob back-to-back</b>	8/10/12 mm	<b>21.423</b>

**Note:** To ensure better load transmission, please use a pull handle in conjunction with the DORMOTION damping unit.

## Accessories / Assembling aid

	Product description	Art. No.
	<b>Assembling tool for MANET single-point fixing</b>	<b>21.134</b>
	<b>Clip-on cover for single-point fixing with spring,</b> 5 pieces  material 1.4305 do.material 1.4404	<b>29.217</b> <b>29.219</b>

# Safety-related information

## Important safety-related information for the mounting and use of DORMA-Glas glass fittings.

(Follow these instructions in addition to the mounting and operating instructions in order to avoid damage of product and damage to person or property.)

**Important:** All users have to be informed about relevant points mentioned in these safety-related information and the mounting and operating instructions!

### General information

1. DORMA-Glas recommends the use of TSG-H (heat-stored tempered safety glass) according to DIN EN 12150-1.
2. DORMA-Glas glass fittings are not suitable for outdoor installation.
3. DORMA-Glas glass fittings are not suitable for rooms where chemicals (e.g. chlorine) are used, e.g. swimming pools, saunas and brine baths.



4. Sliding panels must not be moved faster than at walking speed and must be stopped by hand before reaching the end position will be.
5. Pivoting panels must not be thrown too hard. If there is a risk of over-turning, this must be prevented by a door stop.

### Mounting

1. Only properly qualified and specially trained staff is authorised to mount DORMA-Glas glass fittings.
2. Never use glass with conchoidal fractures and/or damaged edges.
3. Due to crushing hazards – among others in the area of the secondary closing edge – and possible injury caused by breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) is required.
4. Clean clamping area with fat solvent (standard commercial cleaning agent) before mounting the glass fitting.
5. Never use clamping shoes on structured glass surfaces (except on satined glass) or glass of heavily varying thickness unless with a corresponding levelling layer.
6. Never use clamping shoes on self-cleaning coatings.
7. When adjusting glass elements, always stick to the required clearance for the respective fitting. Adjust clearance so that the glass does not touch hard components such as glass, metal or concrete.
8. Make sure not to use excessive force when installing the glass (avoid local stress resulting from very tight screws).

### Maintenance

Check fittings at regular intervals for proper positioning and smooth running and door for correct adjustment. Especially highly-frequented door systems require inspection by properly qualified staff (specialised companies or installation firms). Immediately replace damaged glass elements (no glass flaking and/or conchoidal fractures)!

### General care instructions

The surface finishes of the fittings are not maintenance-free and should be cleaned according to their material and design.

- For metallic surfaces (anodised finishes, stainless steel) please use appropriate cleaning agents without abrasive additives only.
- For varnished surfaces please use appropriate solvent-free cleaning agents only.
- Brass surfaces (without surface protection) have to be treated with an appropriate maintenance agent on occasion, to avoid tarnishing.

**For practical planning, please use our drawings DORMA-Glas "The Detail".**

The printed colours indicating the surface finishes are not 100 % true, but do provide a useful guide. Statements made with regard to the nature or use of the products are for the purposes of descriptions. Assent with regard to the existence of particular properties or particular uses always requires special written agreement. Pictures may show special designs which are different to the standard scope of delivery.

Subject to change without notice.









# Moving Details.

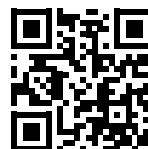


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