

Moving Details.

TECHNICAL BROCHURE

Patch Fittings and Profile Systems

Issue 2023

TECHNICAL BROCHURE Patch Fittings and Profile Systems

dg DORMA
GLAS®



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, DORMA-Glas provides Environmental Product Declarations (EPDs), in which the results of the life cycle assessment (LCA) are presented.

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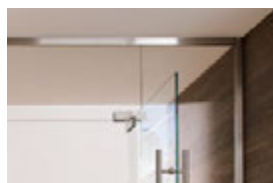
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The DORMA-Glas range of fittings for toughened glass assemblies

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 ⁴⁾	10, 12	8, 10, 12
Glass thickness (mm), for UNIVERSAL with 15 mm pivot point			8, 10		
Max. door weight (kg)	150	200	110 ²⁾⁵⁾	80	80/110 ⁴⁾
Max. door weight (kg) for UNIVERSAL with 15 mm pivot point			80		
Max. door width (mm)	1100	1300	1100 ²⁾⁵⁾	1000/1200 ⁴⁾	1000/1100 ⁴⁾
Max. door height (mm)	see Matrix for door dimensions, page 10		3000 ¹⁾²⁾⁵⁾	2200 ⁴⁾⁵⁾	3000 ¹⁾²⁾
Glass type	TSG	TSG/LSG ³⁾	TSG	TSG	TSG
Double-action / single-action door	sa/da	sa/da	sa/da	sa/da	sa
Materials and finishes					
AL mill finish (100)					
AL anodized, EV1, sanded, matte (for profiles: stained, matte) (101)			●		●
AL anodized, EV1 Deco, satin, matte (compatible with finish 150) (114)				●	
AL anodized, similar stainless steel, polished, matte (107), AL anodized, similar stainless steel, satin (for profile material) (similar Anodizing II C 31) (113)				● (107)	● (107)
AL anodized, Silver, satin, matte (compatible with finish 114) (150)	●	●			
AL anodized, special (199)		●	●		●
AL powder coated, Traffic white, smooth, glossy (sim. RAL 9016) (300)					●
AL powder coated, Traffic white, smooth, semi gloss (sim. RAL 9016) (350)	●	●	●		
AL powder coated, Special color (Standard powder according to the corresponding overview on our website. A price surcharge is possible for special colors outside the color range specified there.) (399)			●		●
Brass, polished, chromed (501)			●		●
Brass, polished (503)			●		●
Stainless steel, satin (compatible with 750) (700)			●		
Stainless steel, polished (compatible with 751) (701)			●		
Stainless steel, satin (for MUNDUS) (compatible with 700) (750)	●	●			
Stainless steel, polished (for MUNDUS) (compatible with 701) (751)	●	●			
Page	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	
1400*	1200			
3500 ¹⁾²⁾⁵⁾ 4000 ⁴⁾	2500 ¹⁾²⁾⁵⁾		3000 ¹⁾²⁾⁵⁾	2500/ 2800 ¹⁾²⁾⁵⁾
TSG/LSG ³⁾	TSG	TSG	TSG/LSG ³⁾	TSG
sa/da	sa/da	sa/da		
●			●	
●		●	●	●
		●	●	●
●				
		●	●	
●		●		
●	●			
●			●	
102	158	172	192	198

- 1) For door heights up to 2500 mm
For doors with a height of more than 2500 mm we have to keep additional conditions/limits:
 - Glass thickness >= 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 < / = 1100 mm must be provided with door closers of type EN 3 (with or without back-check), and doors > / = 1100 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.

Door rails are not available in finishes 501 and 503.

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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.

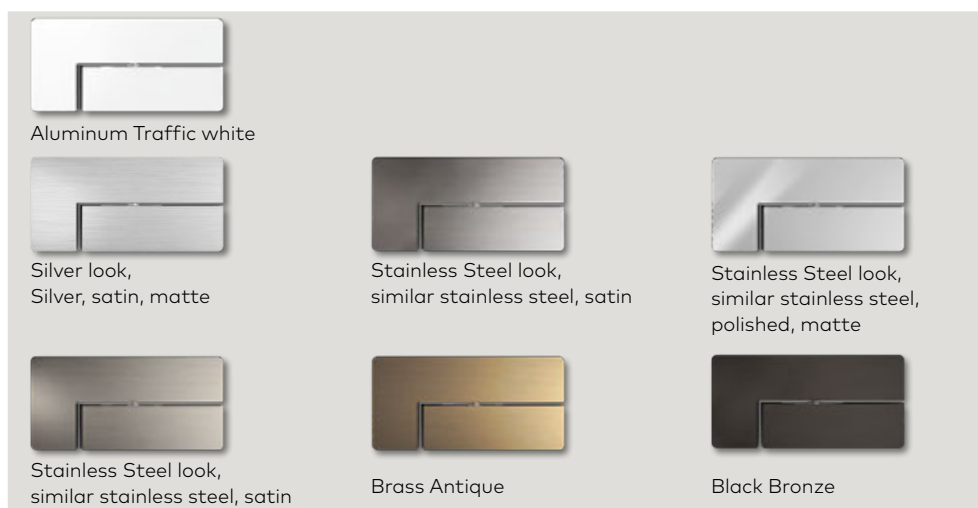
MUNDUS offers patch fittings for 24 standard systems and numerous special solutions

– 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



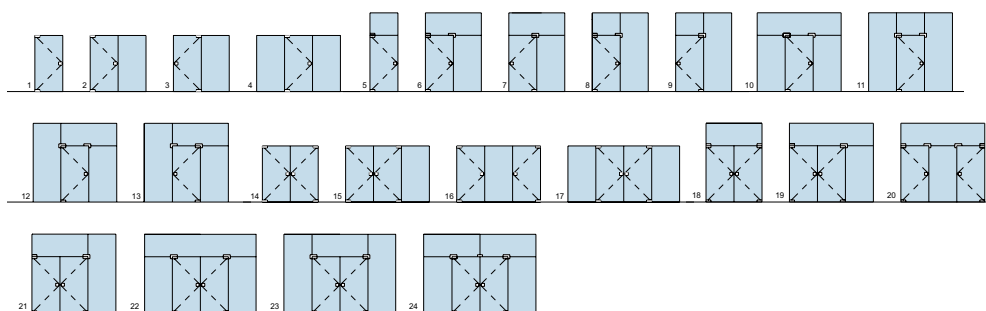
Standard collection

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	1300 mm		1100 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:	1000000		500000		
Inhouse-Test according to EN 12400	Test certificates from an external accredited authority can be provided on request.				
Inhouse-Test according to EN 1670					
Finishes	Availability	Corrosion class	Availability	Corrosion class	
Standard Collection Aluminium, powder coated					
White					
350	AL powder coated, Traffic white, smooth, semi gloss (sim. RAL 9016)	●	4	●	4
Specials					
399	AL powder coated, Special color (Standard powder according to the corresponding overview on our website.	●	4	●	4
Standard Collection Aluminium, mill finish and anodized					
150	AL anodized, Silver, satin, matte (compatible with finish 114)	●	4	●	4
Standard Collection Stainless steel, various finish treatments					
750	Stainless steel, satin (for MUNDUS) (compatible with 700)	●	4	●	4
701	Stainless steel, polished (compatible with 751)	●	4	●	4
Standard Collection Brass, various finish treatments					
503	Brass, polished	●	4		
501	Brass, polished, chromed	●	4		
Exclusive Collection					
157	AL anodized, similar stainless steel, satin	●	4		4
Brass Antique					
		●	4		
Black Bronze					
		●	4		

1 – 4 Corrosion class according to EN 1670 (independent test confirmation on request) • Standard

* 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)			
	1000	1100	1200	1300	1000	1100	1200	1300	1000	1100	1200	1300	1000	1100	1200	1300	1000	1100	1200	1300
2000	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2100	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2200	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2300	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2400	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2500	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2600	Orange	Orange	Orange	Orange	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2700	Orange	Orange	Orange	Orange	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2800	Orange	Orange	Orange	Orange	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
2900	Orange	Orange	Orange	Orange	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
3000	Orange	Orange	Orange	Orange	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
3100	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3200	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3300	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3400	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3500	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
3600	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
3700	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
3800	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
3900	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
4000	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange

- 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





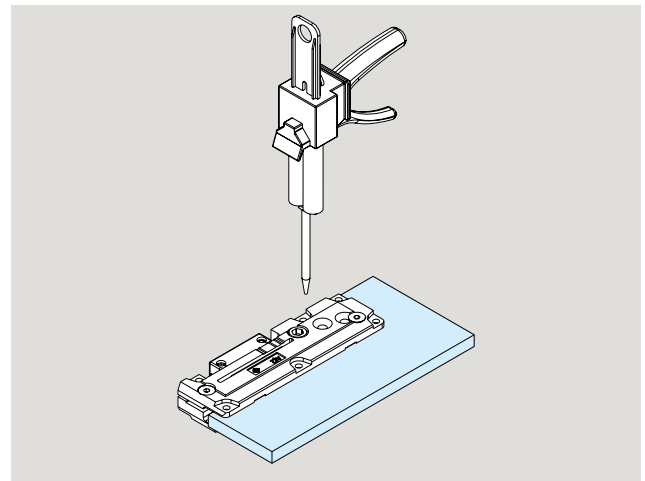
MUNDUS Premium – Providing a totally reliable hold – Clamp&Glue technology

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.



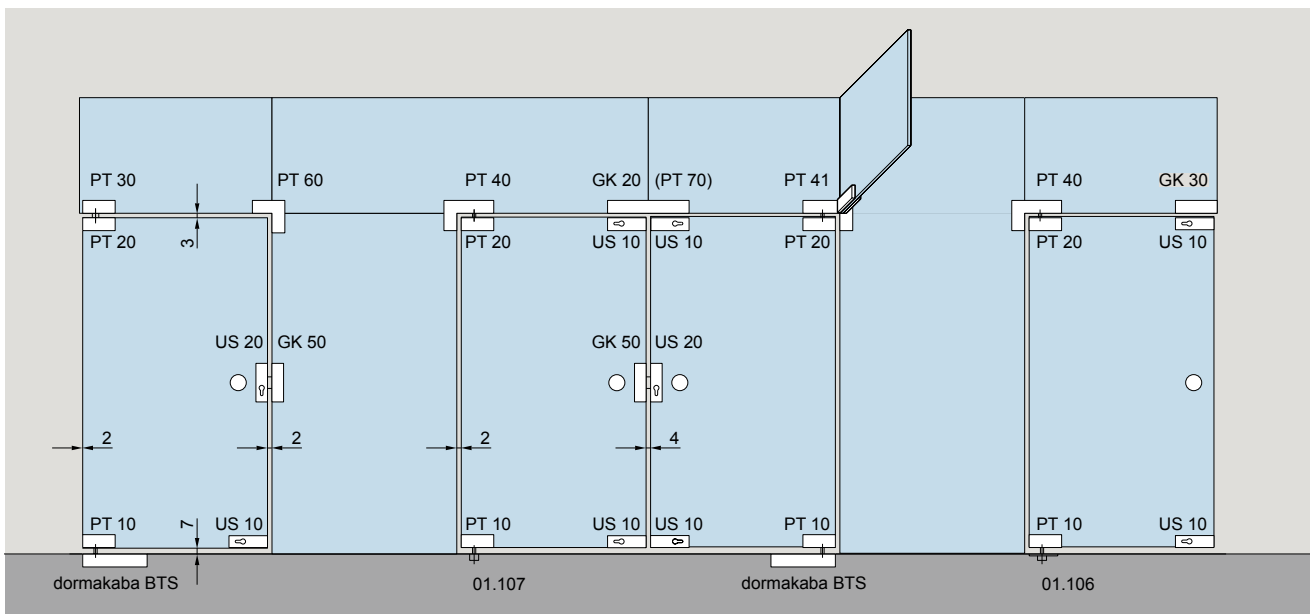
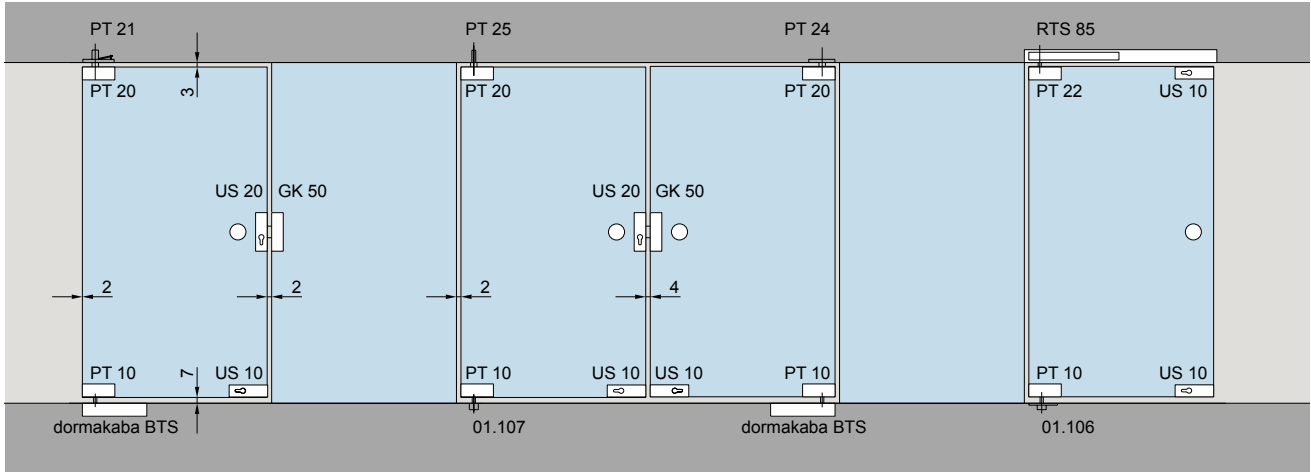
*The LSG gaskets may only be used when fixing glass using the Clamp&Glue technology

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 PT = Patch
 GK = Strike box 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: 1300 mm
 MUNDUS Comfort: 1100 mm

For doors with a height of more than 2500 mm we should keep additional conditions/limits:

- Glass thickness ≥ 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:

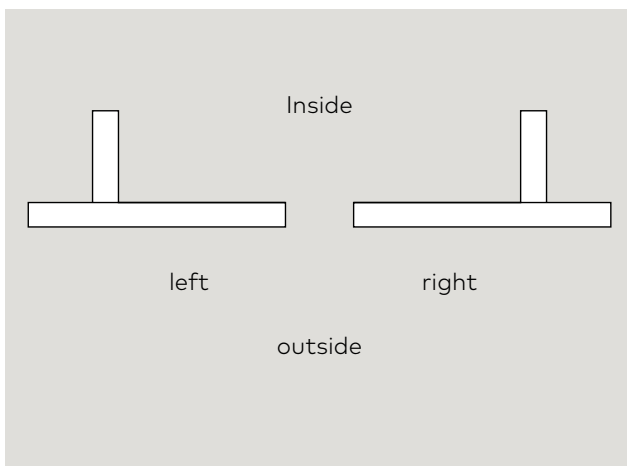
Doors $< / = 1100$ mm must be provided with door closers of type EN 3 (with or without backcheck), and doors $> / = 1100$ mm need to be fitted with larger door closers (e.g. EN 4, 5 or 6) with or without backcheck.

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.



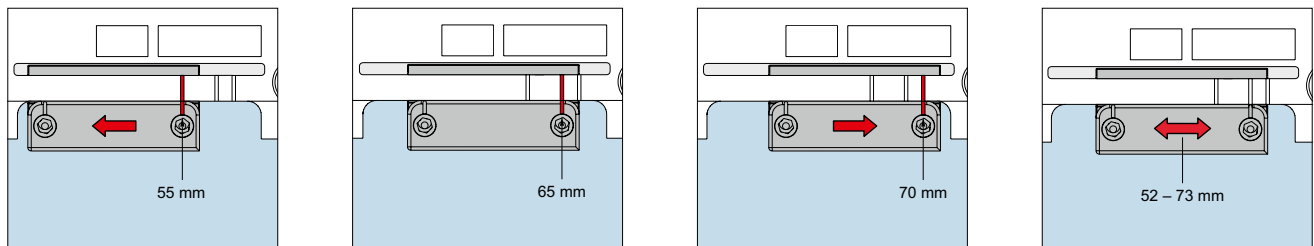
Easy to install, easy to adjust

Fast and uncomplicated fixing

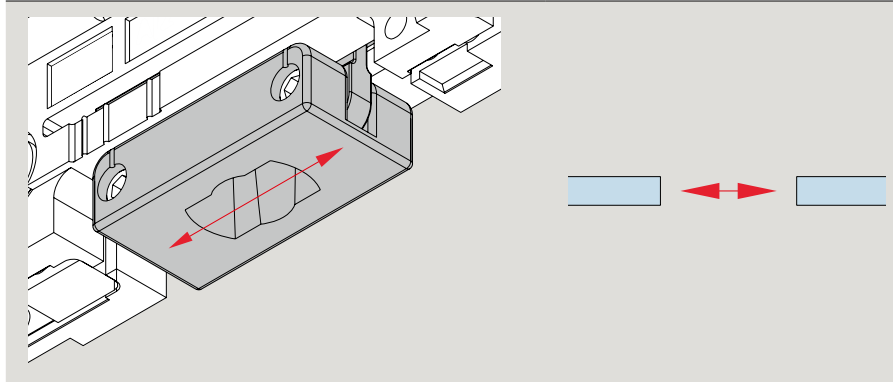
MUNDUS patch fittings always fit snugly on the glass thanks to their multi-dimensional variability. They facilitate infinite adjustment of the vertical gap dimensions and location accuracy in terms of both pivot point and zero position.

Optimum gap dimensions

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

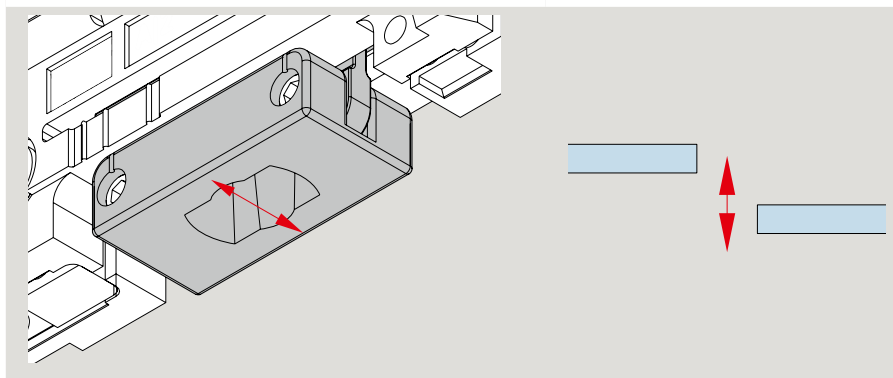


Multi-dimensional adjustability even when mounted



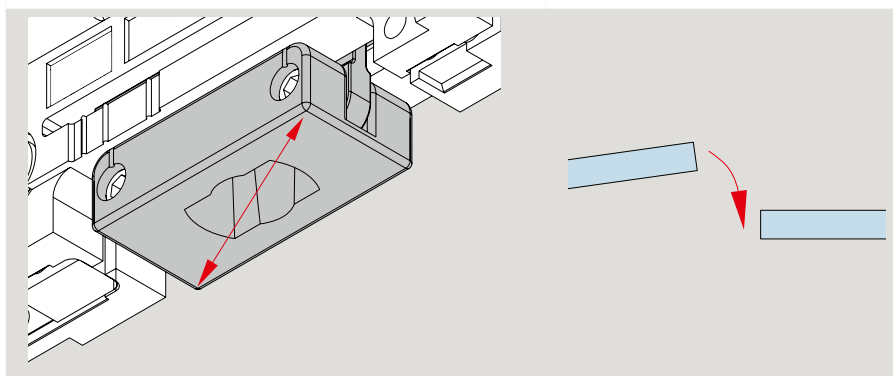
Alignment in the X axis

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

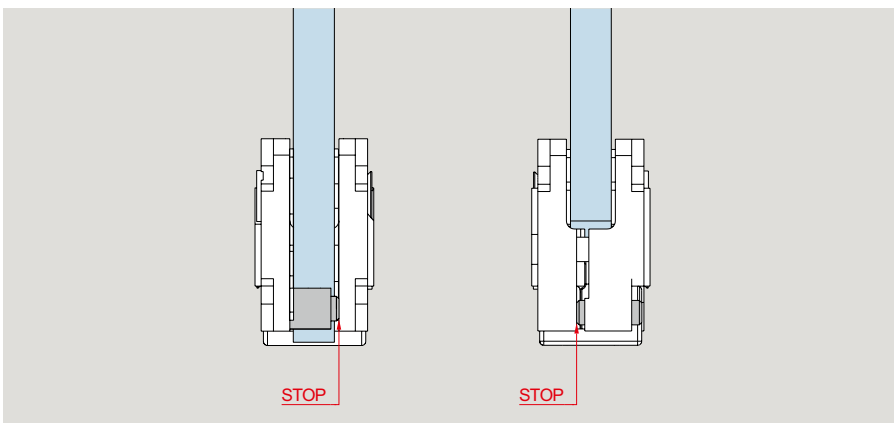
MUNDUS Premium:
Accommodating glass thicknesses of 8–12 mm, 12–15 mm, 15–19 mm and 19–22 mm with infinite adjustability in a single fitting. The gaskets that you had to separately order for toughened safety glass are now a thing of the past. You always have the right fitting to hand. That means: fast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

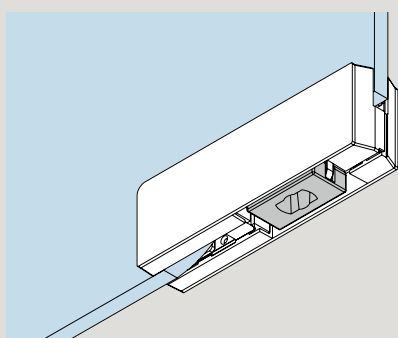
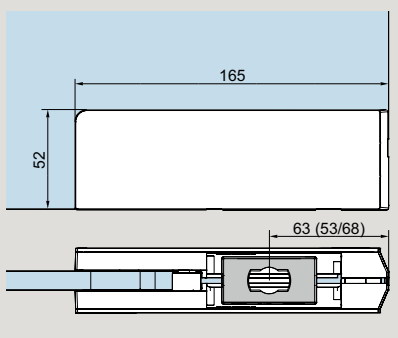
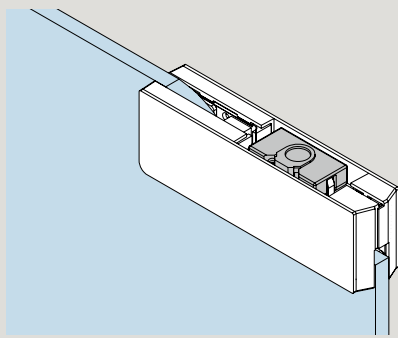
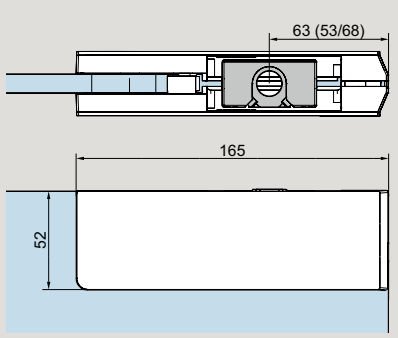
Protection from unauthorised access

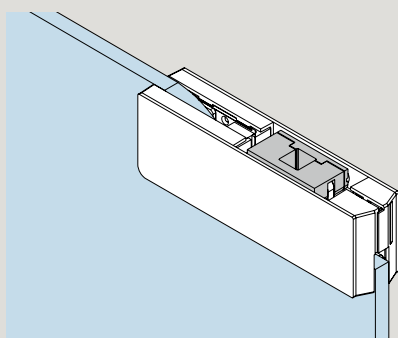
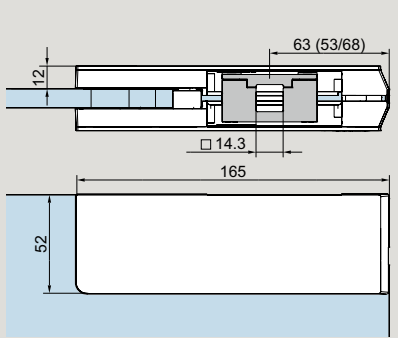
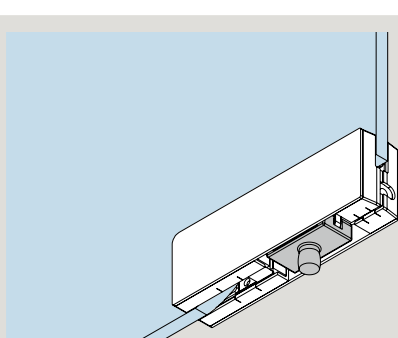
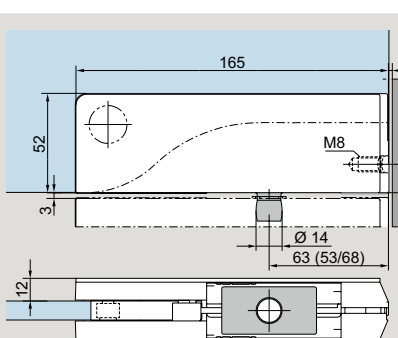
The positioning of the clamping screws also provides for additional protection against unauthorised access to your interiors. The screws are distributed on both sides of the base unit so that disassembly from one side is not possible.



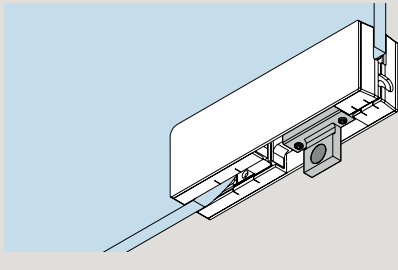
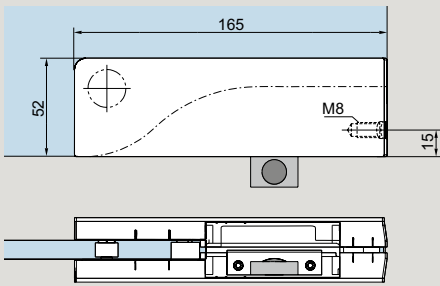
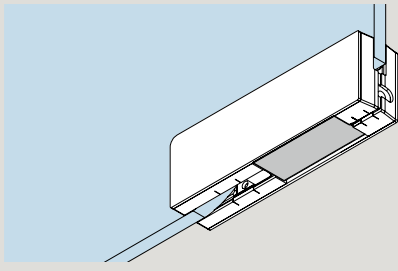
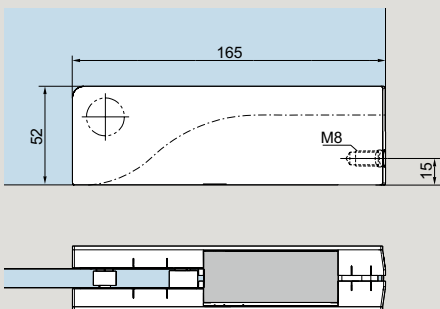
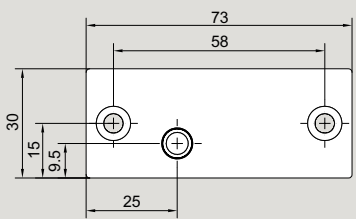
Patch fittings MUNDUS

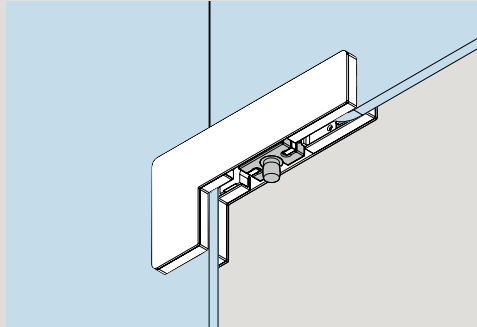
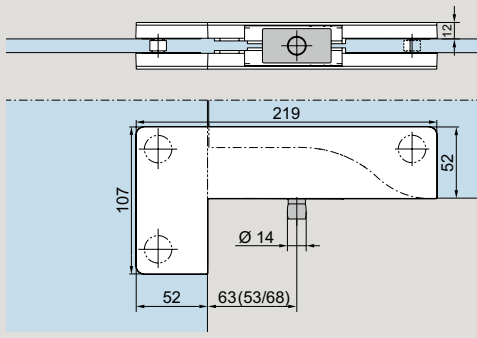
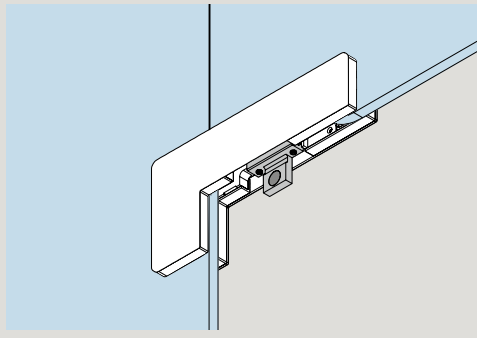
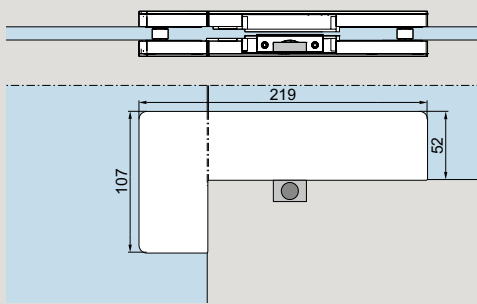
Shown with 10 mm glass. When used with other glass thicknesses, the measurements change accordingly.

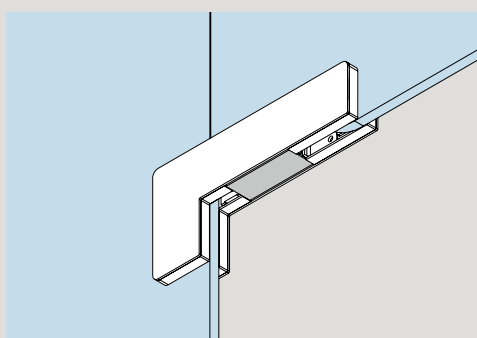
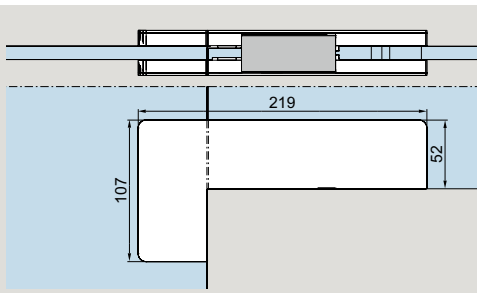
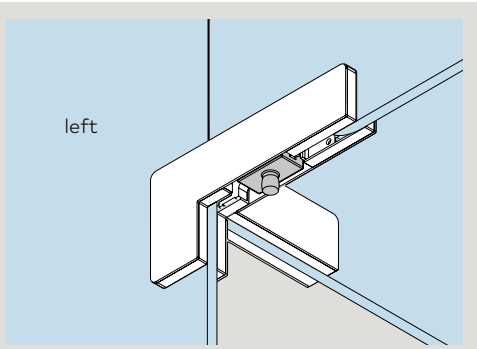
	Product description	Glass thickness	Art. No.
	<p>PT 10 Premium bottom patch fitting use for flat-conical floor spring spindle or round pivot Ø 14 mm. For glass weight up to 200 kg and use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required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

	Product description	Glass thickness	Art. No.
	<p>PT 22 Premium* top patch fitting 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.</p>	<p>8–12 12–15 15–19 19–22</p>	<p>42.220 42.221 42.222 42.223</p>
	<p>PT 22 Comfort* top patch fitting with insert for transom closer RTS. For use with toughened safety glass (TSG).</p>	<p>8–12</p>	<p>38.220</p>
	<p>PT 30 Premium overpanel patch fitting with pivot Ø 14 mm and M 8 tapped hole at side. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.</p>	<p>8–12 12–15 15–19 19–22</p>	<p>42.300 42.301 42.302 42.310</p>
	<p>PT 30 Comfort overpanel patch fitting with pivot Ø 14 mm and M 8 tapped hole at side. for use with toughened safety glass (TSG).</p>	<p>8–12</p>	<p>38.300</p>

* 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 1100 mm.

	Product description	Glass thickness	Art. No.
	PT 30 Premium overpanel patch fitting with stop insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 15–19 19–22	42.303 42.305 42.311
	PT 30 Comfort overpanel patch with stop insert. For use with toughened safety glass (TSG).	8–15	38.303
	PT 30 Premium overpanel patch fitting with blanking insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.	8–15 15–19 19–22	42.306 42.308 42.312
	PT 30 Comfort overpanel patch with blanking insert. For use with toughened safety glass (TSG).	8–15	38.306
	Fixing plate 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.)		38.313

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

	Product description	DIN	Glass thickness	Art. No.		
	PT 40 Premium patch for overpanel and sidelight with blanking insert. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.		8–15	42.406		
			15–19	42.408		
			19–22	42.409		
	PT 40 Comfort patch for overpanel and sidelight with blanking insert. For use with toughened safety glass (TSG).		8–15	38.406		
	PT 41 Premium patch for overpanel and sidelight 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.	with pivot pin	left	8–12	42.410	
				12–15	42.411	
				15–19	42.412	
				19–22	42.472	
			right	8–12	42.420	
				12–15	42.421	
				15–19	42.422	
				19–22	42.474	
			with stop insert	left	8–15	42.413
				15–19	42.415	
				19–22	42.473	
				right	8–15	42.423
		15–19	42.425			
		19–22	42.475			
	with blanking insert	left	8–15	42.416		
		15–19	42.418			
		19–22	42.419			
		right	8–15	42.426		
		15–19	42.428			
		19–22	42.429			

Please note:

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

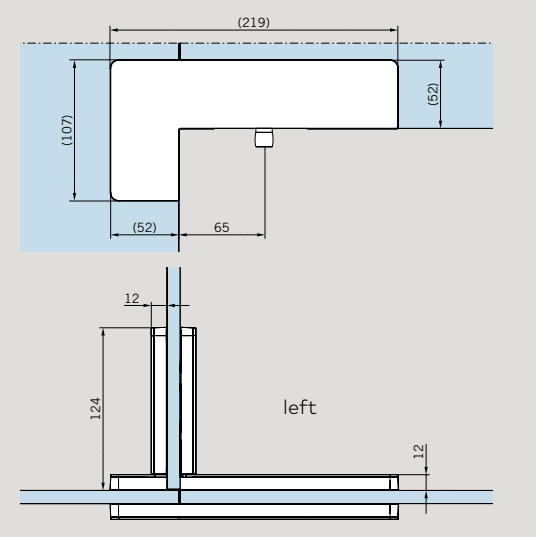
* Left hand fin (illustration shows left hand) / right hand fin. Left or right hand are determined by view from outside.

Product description	DIN	Glass thickness	Art. No.
PT 41 Comfort patch for overpanel and sidelight			
with pivot pin	left	8-12	38.410
with pivot pin	right	8-12	38.420
with stop insert	left	8-15	38.413
with stop insert	right	8-15	38.423
with blanking insert	left	8-15	38.416
with blanking insert	right	8-15	38.426

Please note:

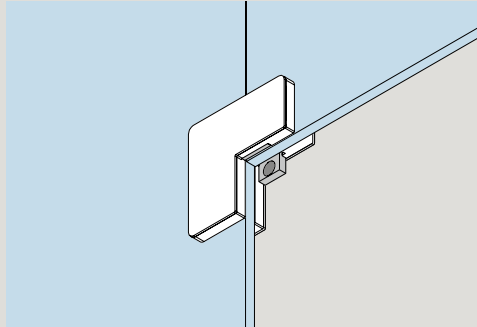
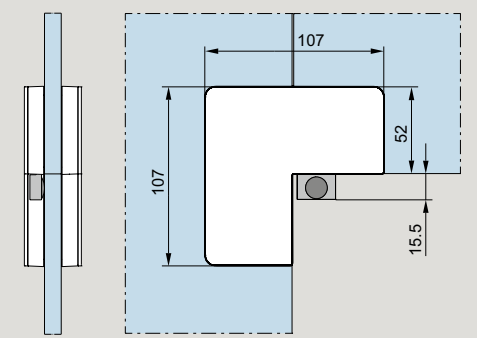
The load-bearing capability of the overpanel (fan light) is only ensured when using suitable wall connection profiles.

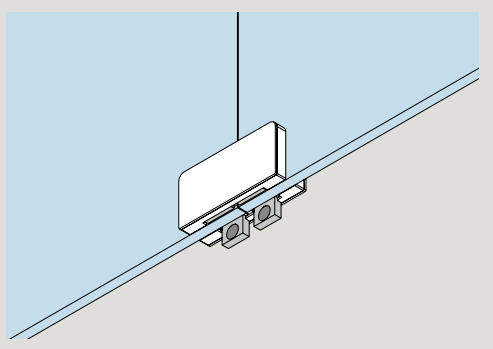
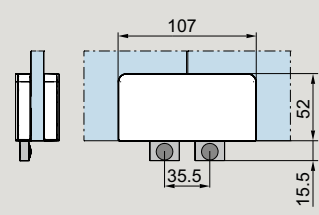
* Left hand fin (illustration shows left hand) / right hand fin. Left or right hand are determined by view from outside.



Connector patches

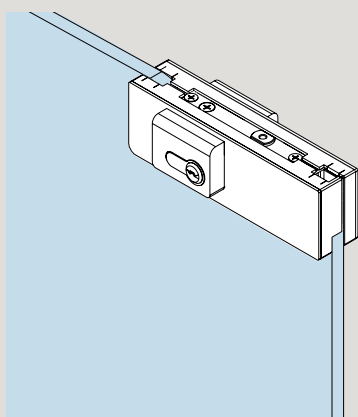
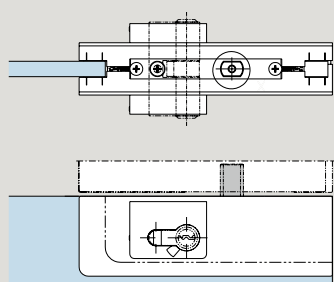
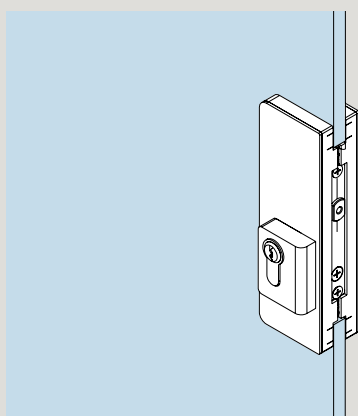
Shown with 10 mm glass. When used with other glass thicknesses, the measurements change accordingly.

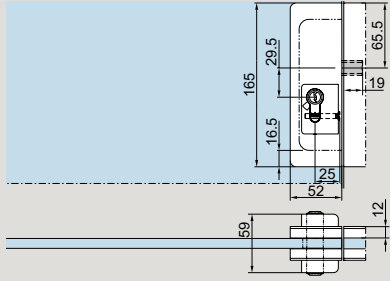
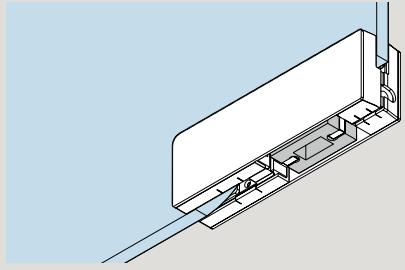
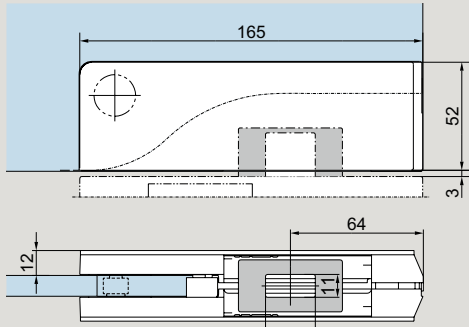
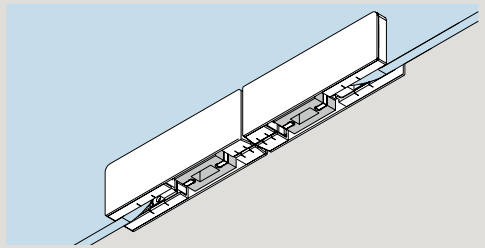
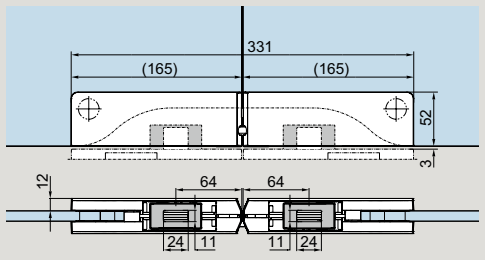
	Product description	Glass thickness	Art. No.
	<p>PT 60 Premium connector for double and single-action doors with 1 stop insert and 2 blanking inserts. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.</p> <p>Please note: The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

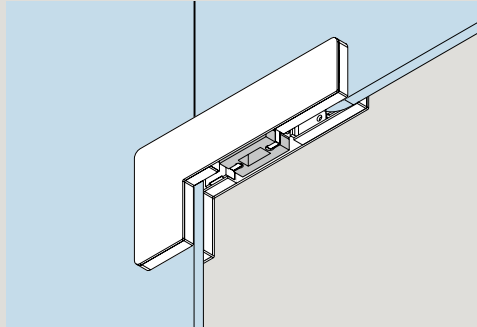
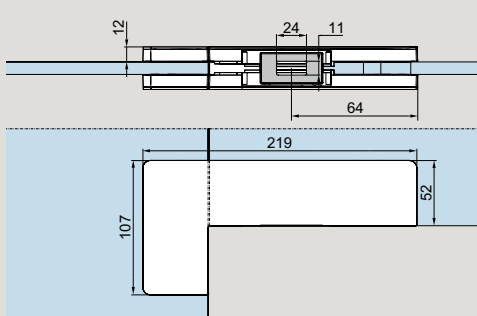
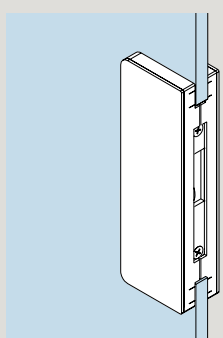
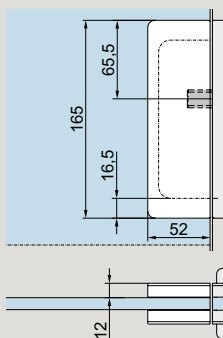
	Product description	Glass thickness	Art. No.
	<p>PT 70 Premium overpanel connector with 2 stop inserts and 2 blanking inserts. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.</p>	<p>8–15 15–19 19–22</p>	<p>42.700 42.702 42.703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

Locks and strike boxes

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

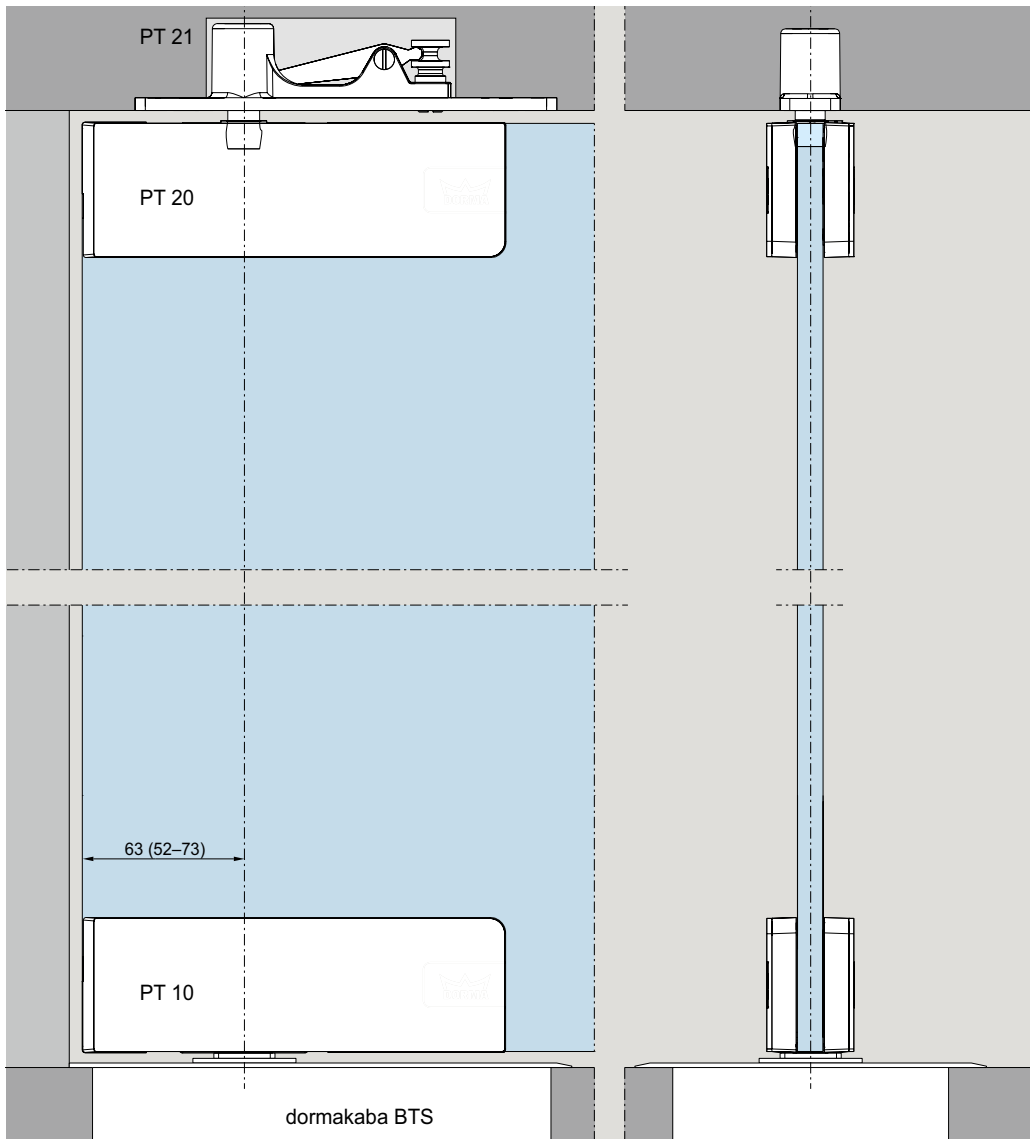
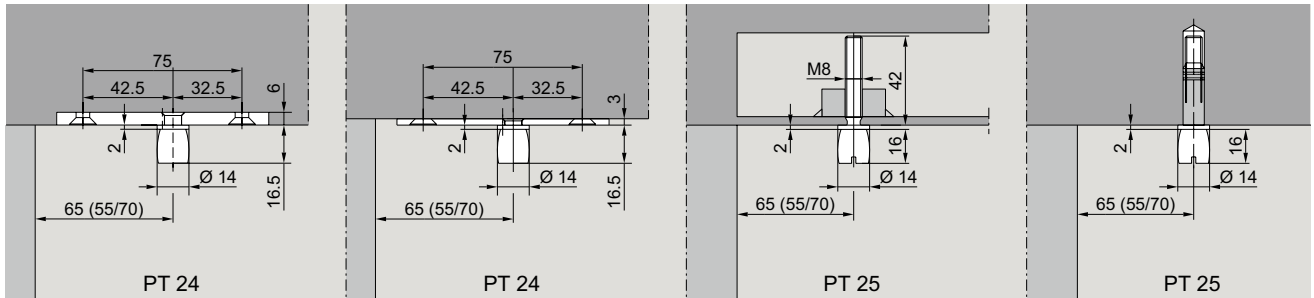
	Product description	Glass thickness	Art. No.
	US 10 Premium corner lock prepared for Euro profile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides 14 mm thick, for use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate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

	Product description	Glass thickness	Art. No.
	<p>US 20 Comfort center lock for use with toughened safety glass (TSG)</p> <p>round cylinder, for use with toughened safety glass (TSG)</p> <p>With the order please indicate the exact glass thickness!</p> <p>* Successful type testing according to EN 12209:2003 to 200000 movement cycles.</p>	<p>8-19</p> <p>8-19</p>	<p>38.520</p> <p>38.523</p>
	<p>GK 30 Premium single overpanel strike box 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.</p> <p>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.</p>	<p>8-15</p> <p>15-19</p> <p>19-22</p>	<p>42.530</p> <p>42.532</p> <p>42.548</p>
	<p>GK 30 Comfort single overpanel strike box with tapped hole at side. Suitable for corner lock US 10. For use with toughened safety glass (TSG).</p> <p>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.</p>	<p>8-12</p>	<p>38.530</p>
	<p>GK 20 Premium double overpanel strike box 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.</p>	<p>8-15</p> <p>15-19</p> <p>19-22</p>	<p>42.526</p> <p>42.528</p> <p>42.529</p>
	<p>GK 20 Comfort double overpanel strike box Suitable for corner lock US 10 consisting of two GK 30 with threaded connecting bolt. For use with toughened safety glass (TSG).</p>	<p>8-12</p>	<p>38.526</p>

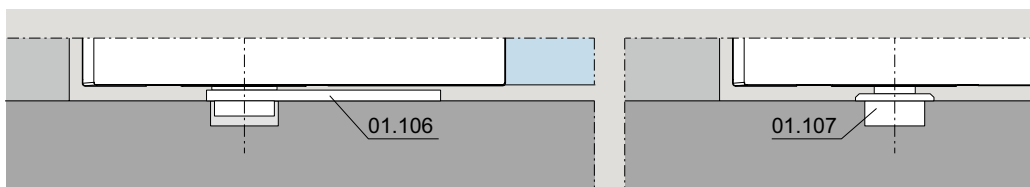
	Product description	Glass thickness	Art. No.
	<p>GK 40 Premium corner overpanel strike box Suitable for corner lock US 10. For use with toughened safety glass (TSG). Also prepared for use with laminated safety glass (LSG) – separate gaskets required.</p> <p>Please note: The load-bearing capability of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

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.



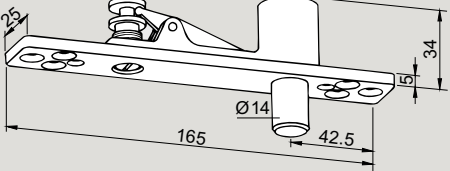
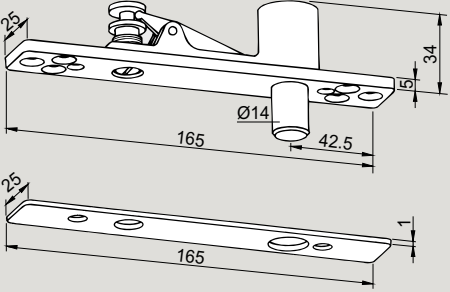
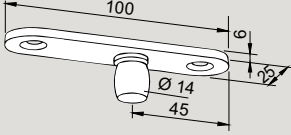
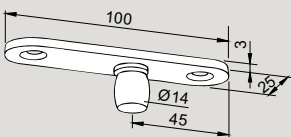
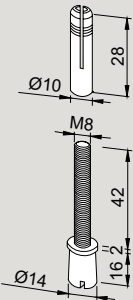
Fixing of top pivots and top centers for PT 20.



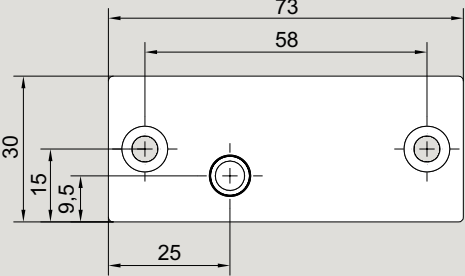
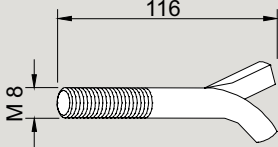
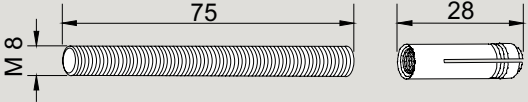
Fixing of floor springs, pivot bearings for PT 10.

Top bearing, pivots for MUNDUS

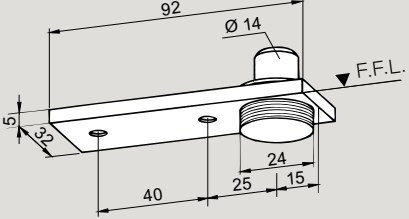
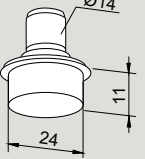
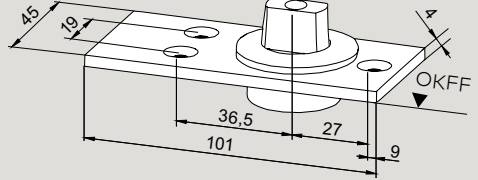
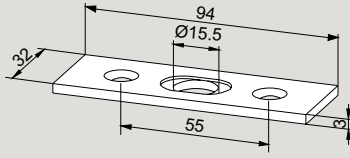
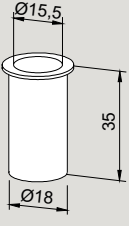
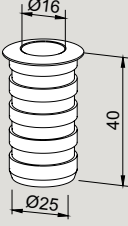
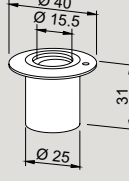
Advisory: Please note that the upper pivots for MUNDUS and those for UNIVERSAL are not mutually compatible. The spigot diameters of the MUNDUS fittings vary.

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

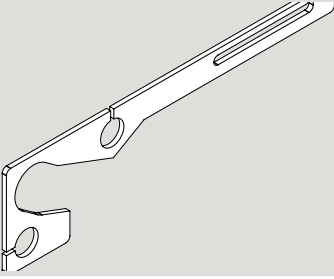
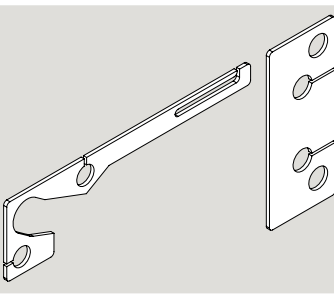
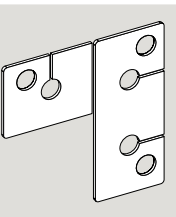
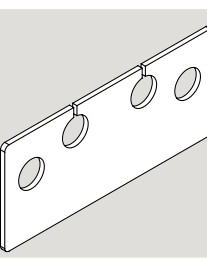
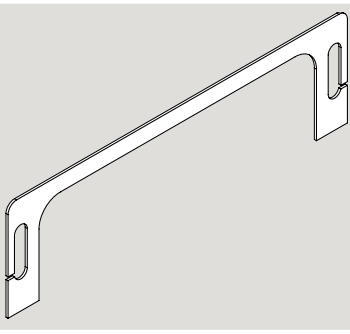
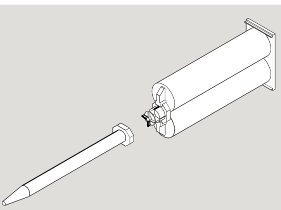
Wall connection for MUNDUS

	Product description	Art. No.
	<p>Fixing plate 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>	<p>38.313</p>
	<p>Wall anchor with thread M 8 for overpanel patch</p> <p>Weight in kg: 0.040</p>	<p>01.133</p>
	<p>Threaded rod M 8 with plug for overpanel patch</p> <p>Weight in kg: 0.032</p>	<p>01.134</p>

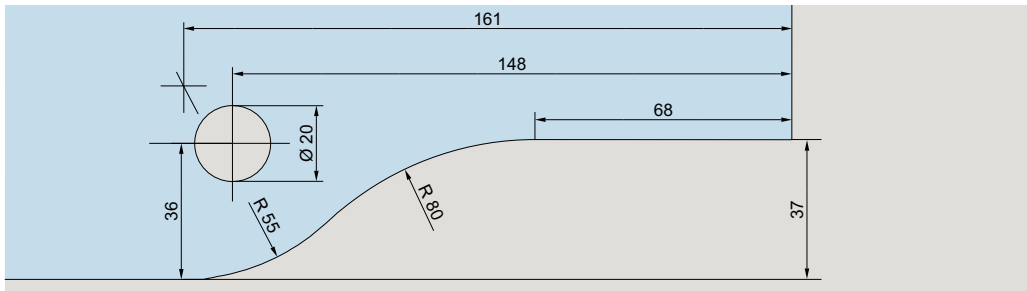
Floor bearing, lock keeper plate, floor socket for MUNDUS

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

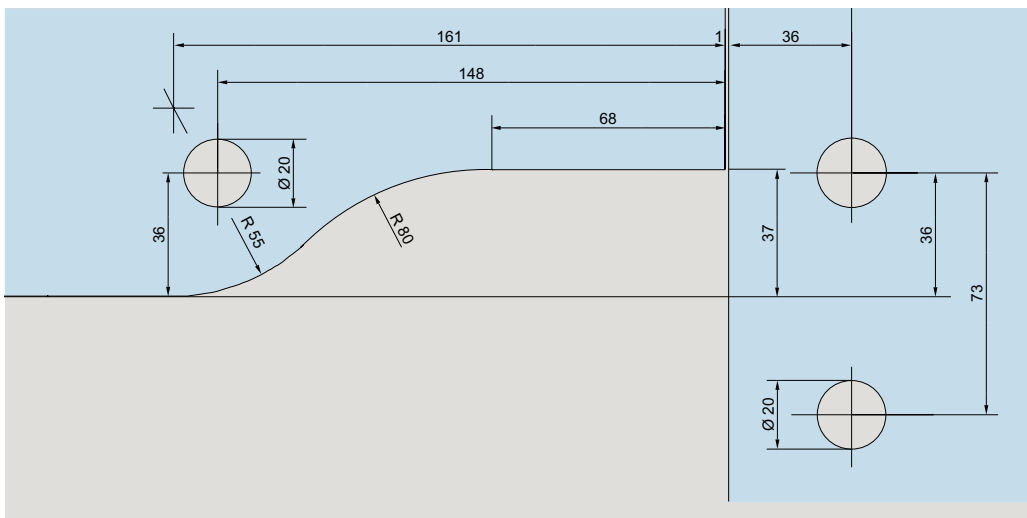
Accessories for use with laminated safety glass

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

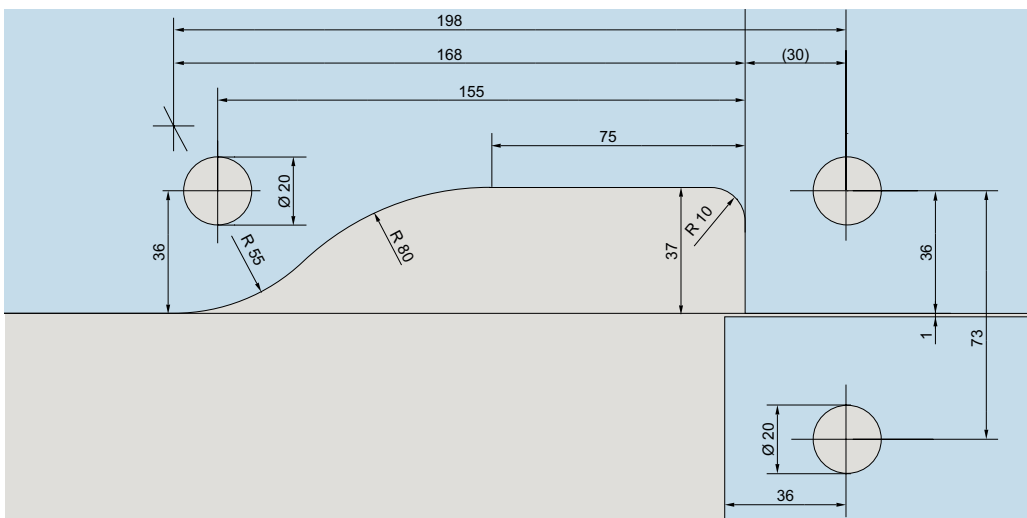
Glass preparation patch fittings



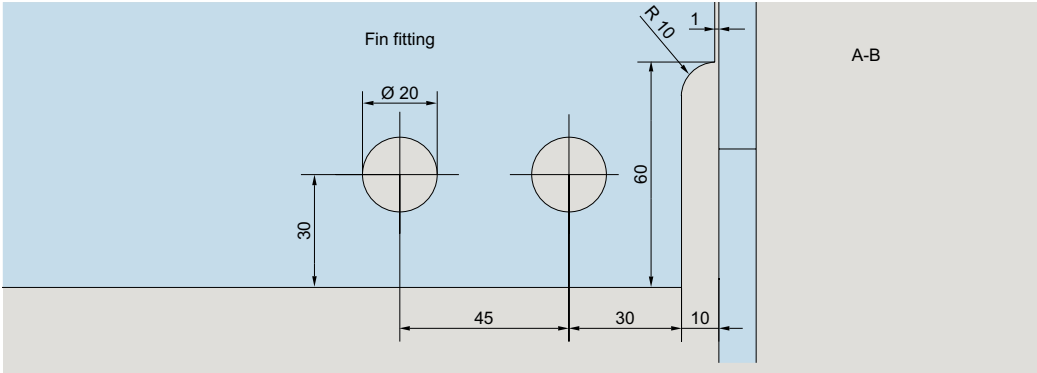
**PT 10, PT 20,
PT 22, PT 30**
Top and bottom
patches,
overpanel patch



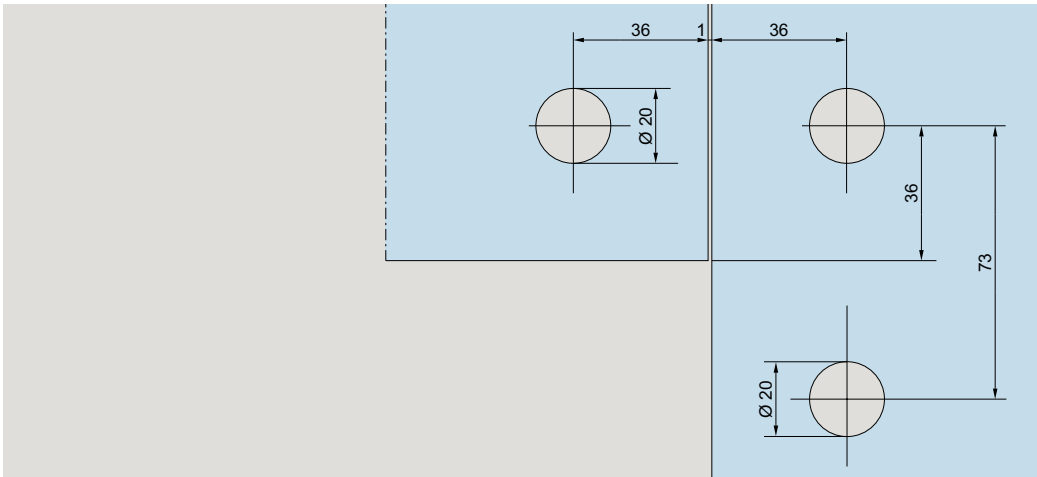
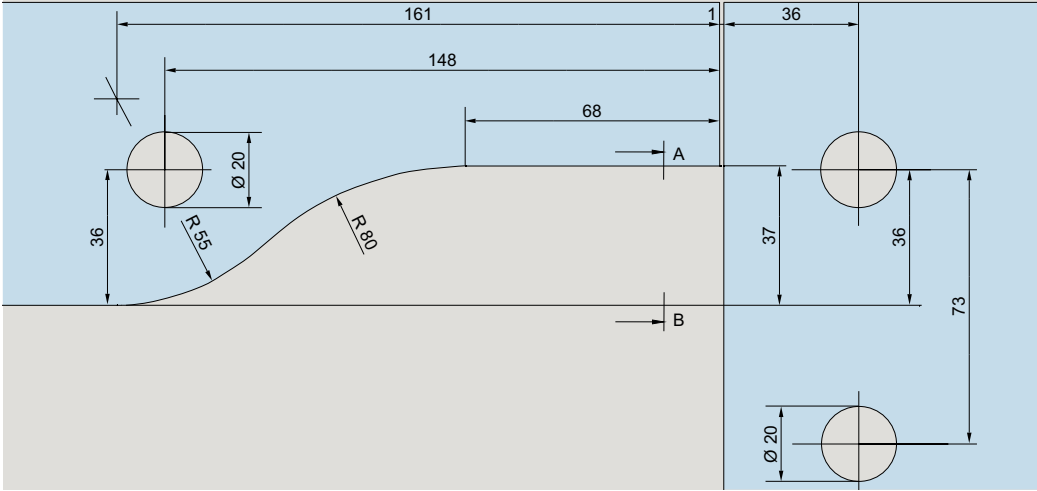
PT 40
Patch for
overpanel and
sidelight



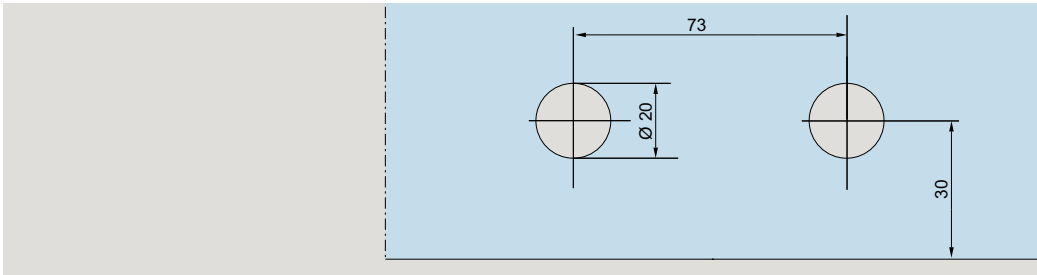
PT 40
Angle patch fitting
with continuous
overpanel



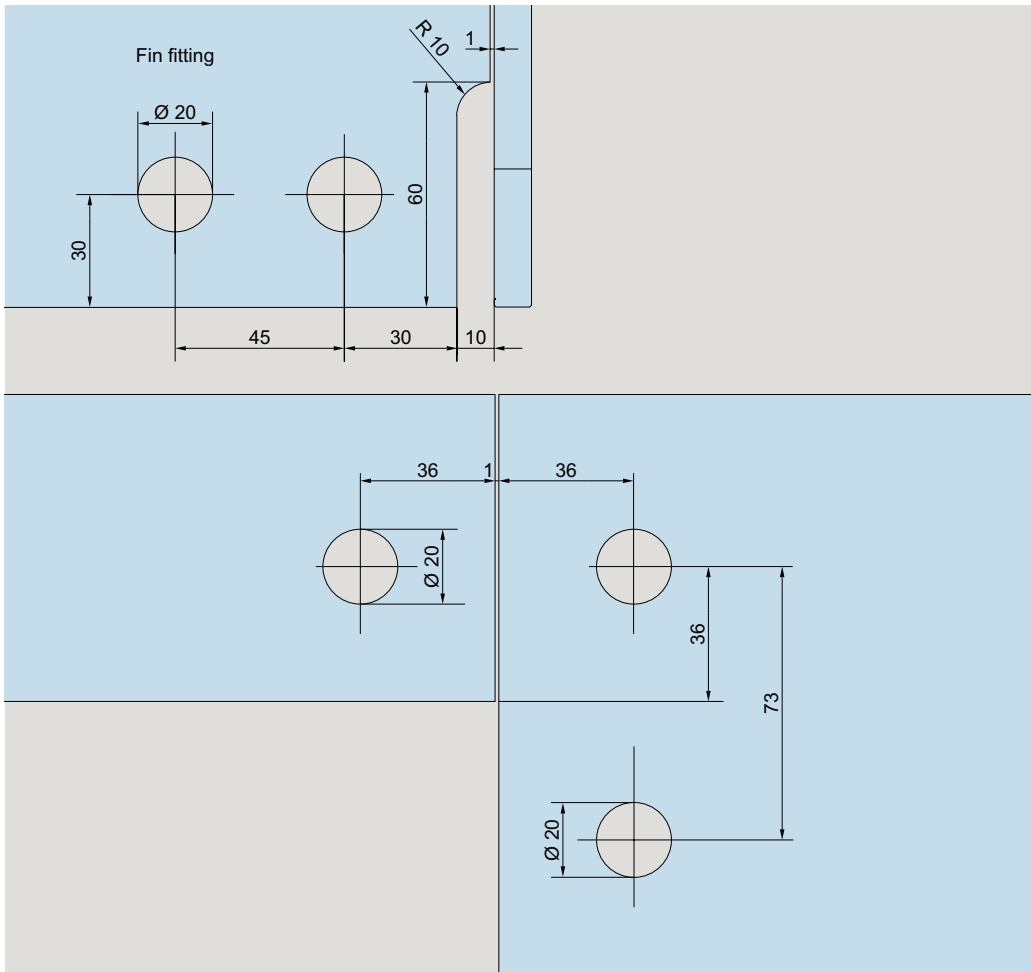
PT 41
Patch for overpanel and sidelight with fin fitting inside



PT 60
Connectors for overpanels and sidelights

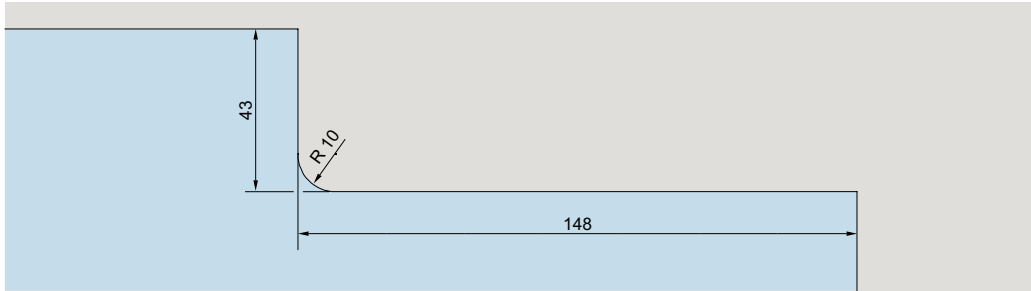


PT 70
Overpanel connector

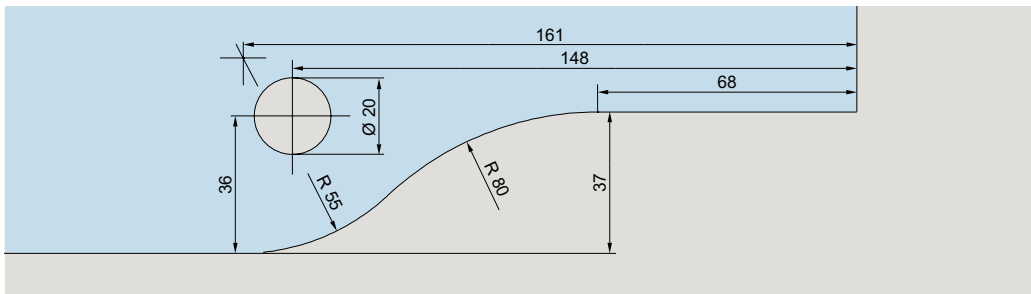


PT 61
Single overpanel
connector
with fin fitting
inside

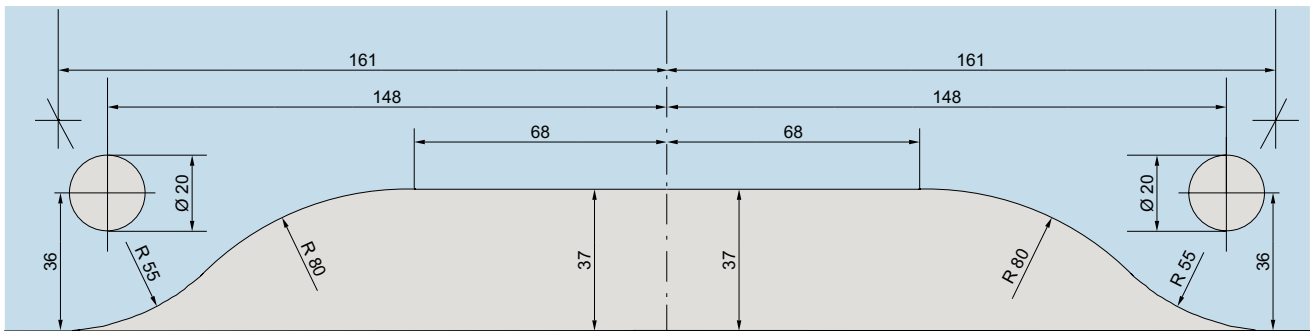
Glass preparation locks and strike boxes



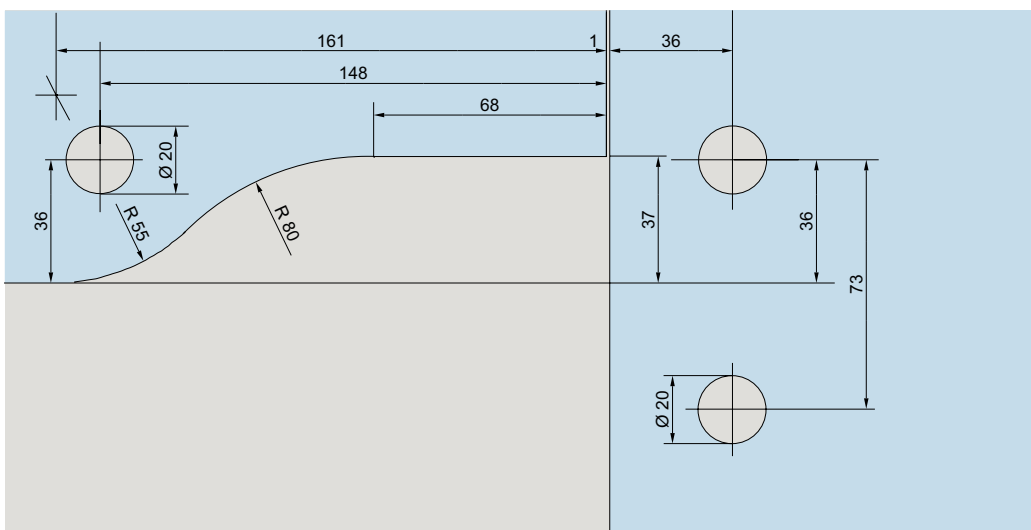
US 10
Corner locks



GK 30 (PT 30)
Single overpanel strike box

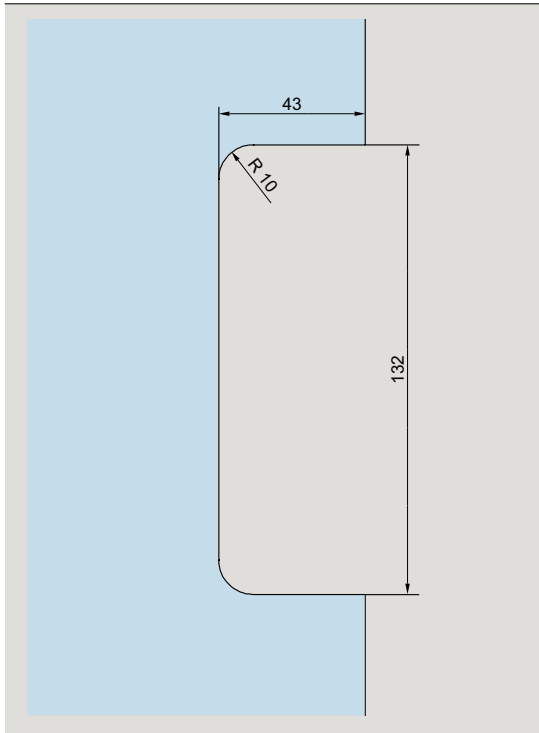


GK 20
Double overpanel strike box



GK 40 (PT 40)
Corner overpanel strike box

Product description



US 20, GK 50

Center lock and strike box to suit center lock

Space for your notes

Content

UNIVERSAL

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



UNIVERSAL

UNIVERSAL ... as the name says

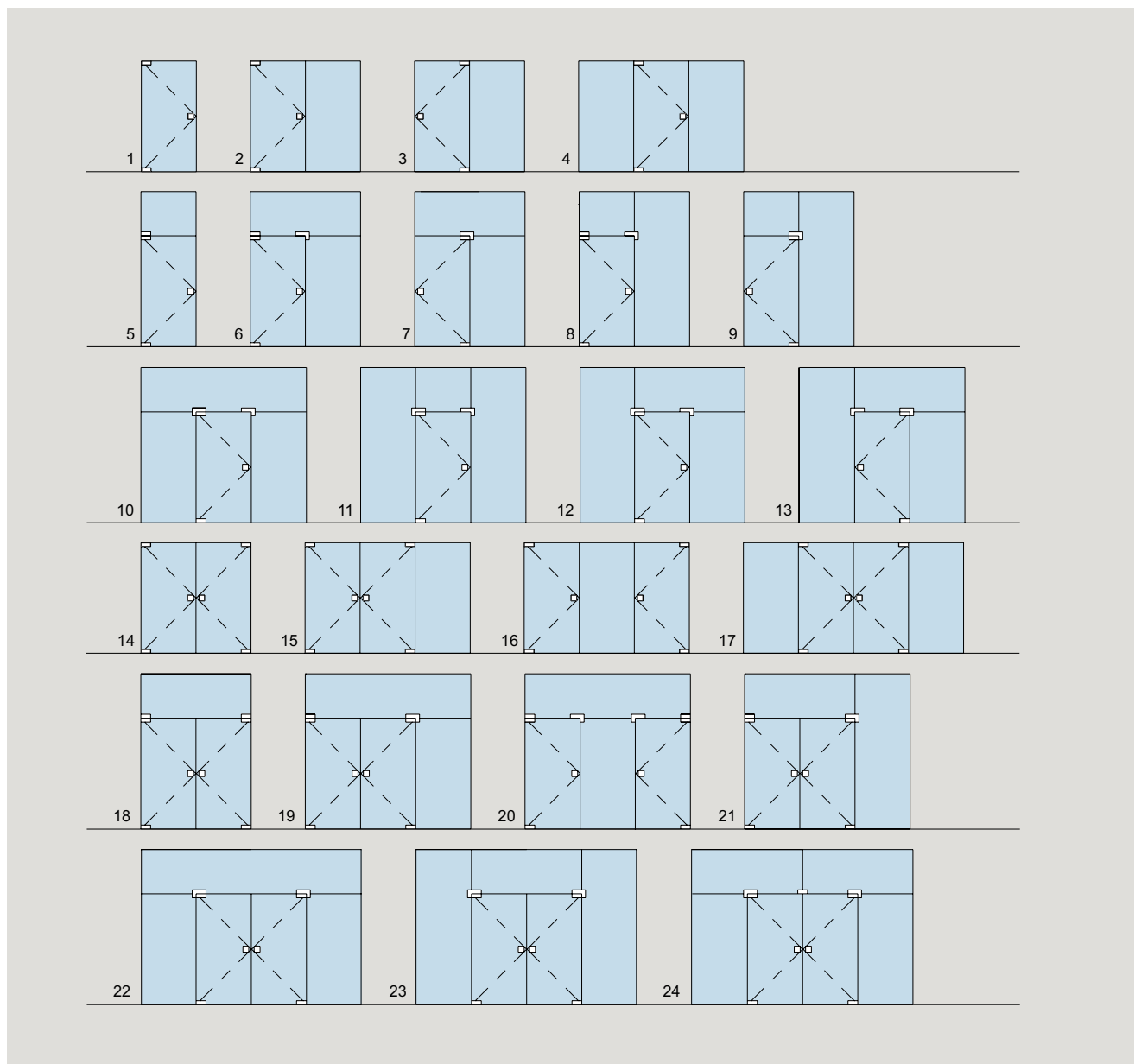
With its broad spectrum of basic types and variants, the UNIVERSAL range of patch fittings enables the realisation in toughened glass of almost any conceivable design. Toughened glass assemblies can be provided with fixed parts in widely differing arrangements – with corner fittings or fin fittings at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

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 3000 mm high by 1100 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. 1400 mm and for high frequented doors, rails with reinforced straps are available.

Matching range of locks

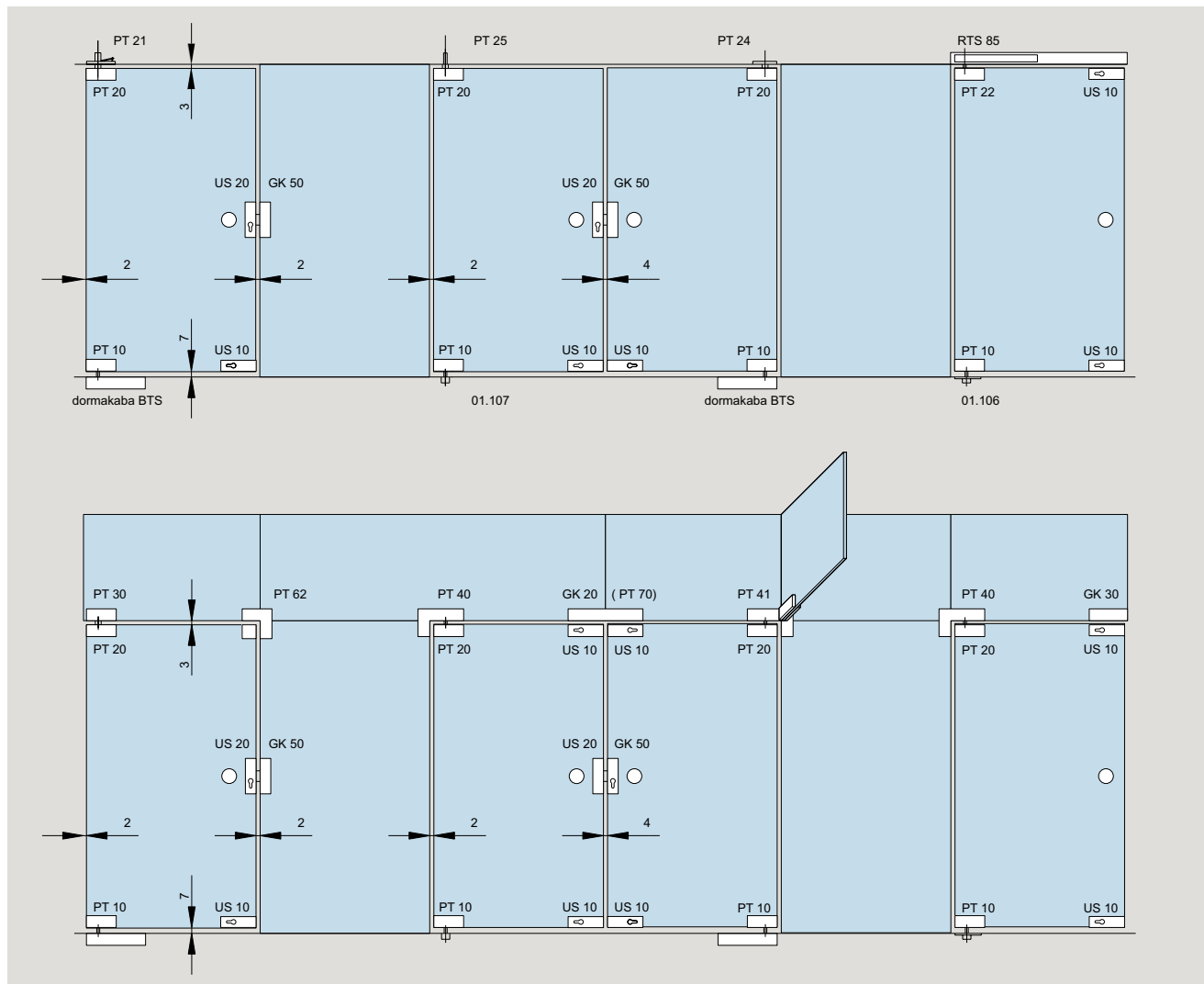
The UNIVERSAL range includes every type of accessory, and of course, a variety of locks and strike boxes in a matching design concept, giving the designer plenty of choice from the options available.

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: 1100 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 1100 mm.

For door weights up to 150 kg and widths up to 1400 mm door rails should be used.

* For door heights up to 2500 mm

For doors with a height of more than 2500 mm we have to keep additional conditions/limits:

- Glass thickness >= 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 < / = 1100 mm must be provided with door closers of type EN 3 (with or without backcheck), and doors > / = 1100 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)*

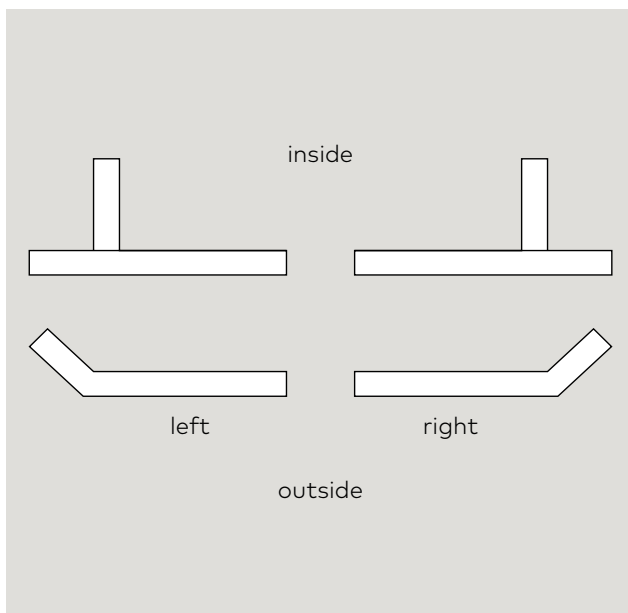
Screws M 6: 15 Nm (5 mm)*

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 NG33 – 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 NG33, 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 NG33 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 NG33 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. 3000 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 NG33 is intended for indoor use. The fitting is not suitable for outdoor applications and for doors in high-frequency areas / public buildings.

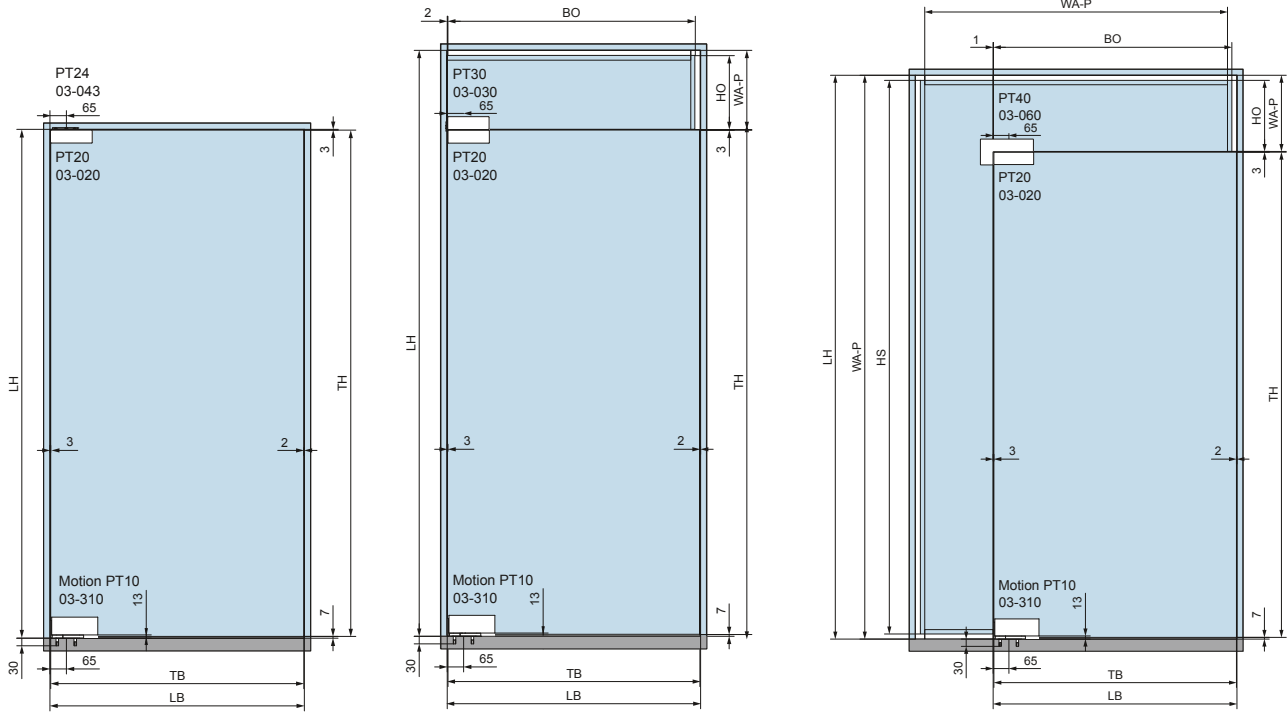
UNIVERSAL Motion NG33 is tested by DORMA-Glas according to DIN EN 1191:2013 for 200000 test cycles.

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).



TH = Door height
 TB = Door width
 LH = Clear height

LB = Clear width
 WA-P = Length WA-P
 HS = Height side panel

BS = Width side panel
 HO = Height overpanel
 BO = Width overpanel

Note:

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

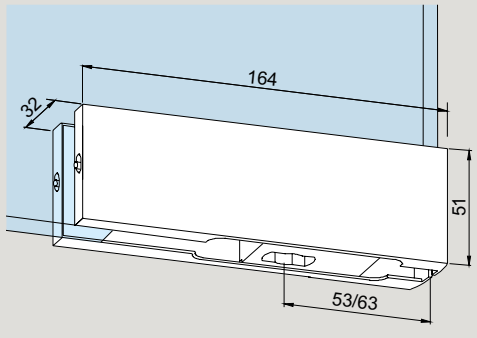
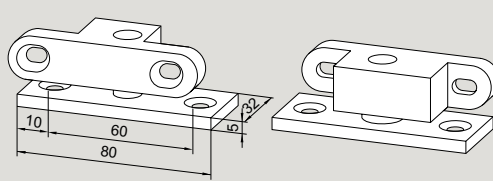
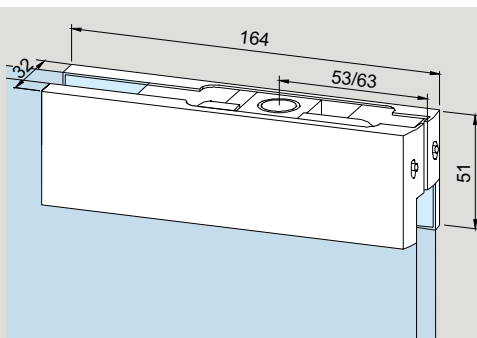
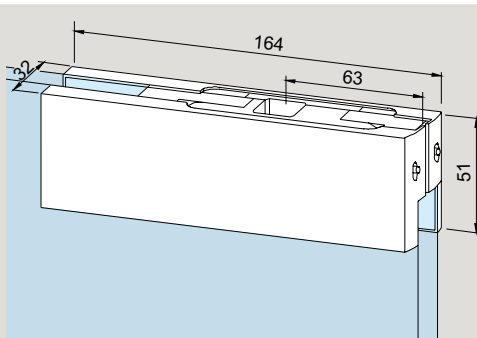
	Produktbeschreibung	Glasdicke	Art.-Nr.
	<p>UNIVERSAL Motion NG33 lower corner fitting with hydraulic door closing function, including floor pivot bearing and fixing material</p>		
	<p>with 90 degrees hold-open</p>	10 + 12	03.147
	<p>without hold-open</p>	10 + 12	03.148
<p>Weight in kg: Satin stainless steel:</p>	2.413		

Note:

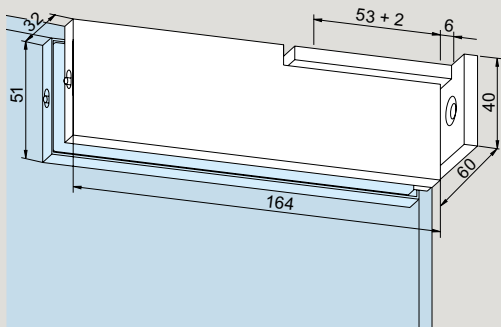
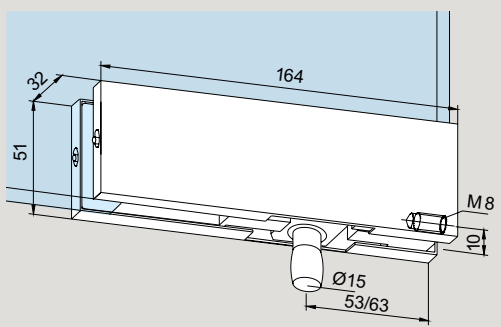
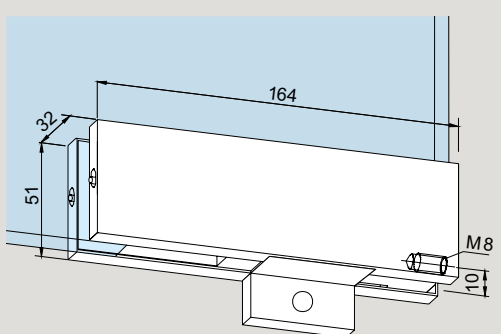
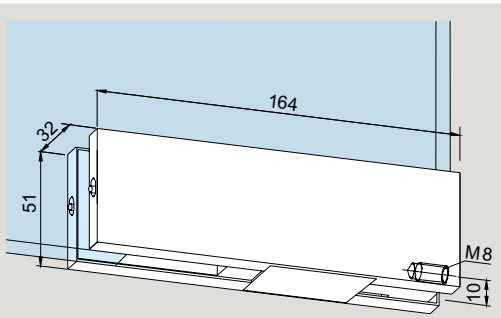
Please note the modified glass processing UNIVERSAL Motion NG33 from May 2022 on page 60!

Patch fittings UNIVERSAL

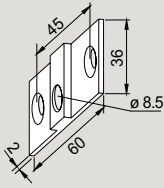
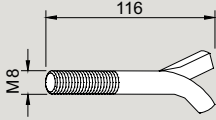
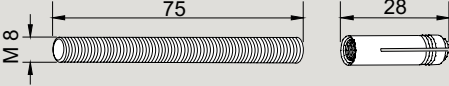
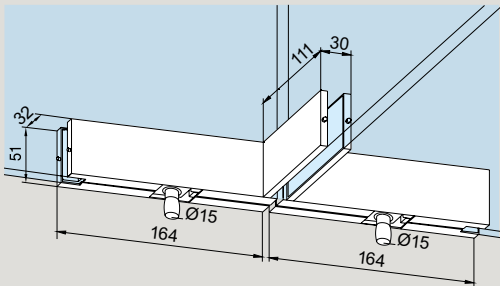
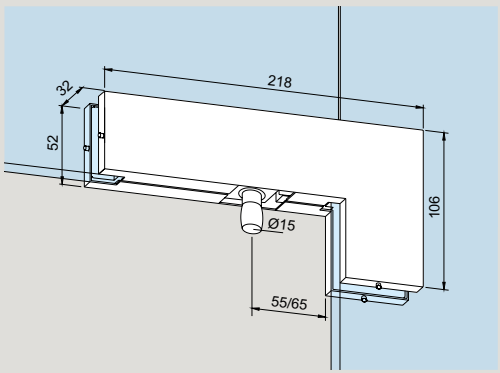
Shown with 10 mm glass. From 12 mm glass the measurements change accordingly.
Accessories see page 204 and following.

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

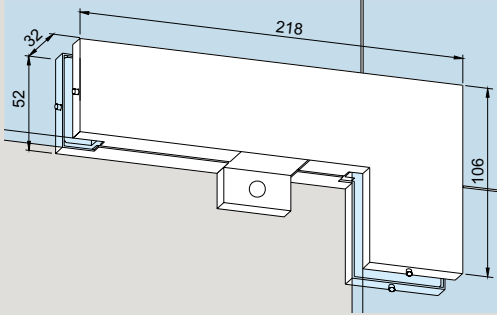
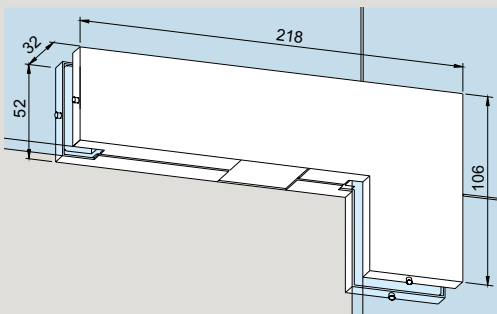
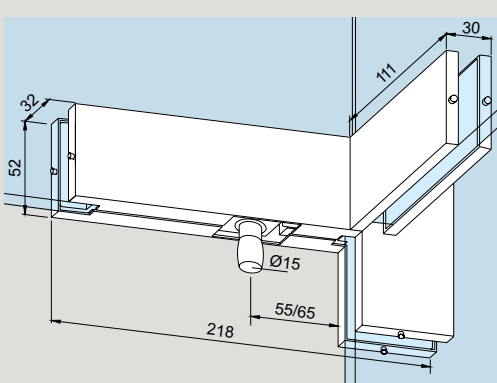
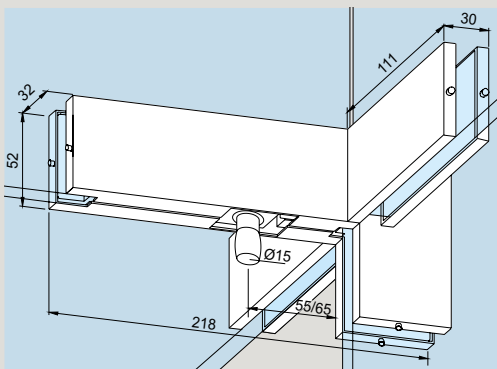
* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.

	Product description	Glass thickness	Art. No.
	<p>PT 29 UNIVERSAL Top patch with pivot fixing plate, to countersink into ceiling (pivot point = 55 mm)</p> <p>max. door width: 1000 mm max. door weight: 70 kg</p> <p>Weight in kg: Aluminum 0.544 Brass 0.692</p>	<p>10</p>	<p>03.114</p>
	<p>PT 30 UNIVERSAL Overpanel patch with pivot 15 mm Ø, with M8 tapped hole at the side</p> <p>With the order please indicate the exact glass thickness!</p> <p>Weight in kg: Aluminum 0.528 Brass 0.654 Stainless steel 0.636</p>	<p>10 13 - 19</p>	<p>*03.120 03.282</p>
	<p>PT 30 UNIVERSAL Overpanel patch with stop insert</p> <p>With the order please indicate the exact glass thickness!</p> <p>Weight in kg: Aluminum 0.528 Brass 0.654 Stainless steel 0.580</p>	<p>10 13 - 19</p>	<p>*03.420 03.482</p>
	<p>PT 30 UNIVERSAL Overpanel patch with blank insert</p> <p>With the order please indicate the exact glass thickness!</p> <p>Weight in kg: Aluminum 0.519 Brass 0.645 Stainless steel 0.571</p>	<p>10 13 - 19</p>	<p>*03.421 03.484 not illustrated</p>

* 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.
	Fixing plate for overpanel patch PT 30 UNIVERSAL Weight in kg: Aluminum 0.016 Brass 0.038 Stainless steel not available, satin chrome on brass supplied.		03.128
	Wall anchor with thread M 8 for overpanel patch PT 30 Weight in kg: 0.040		01.133
	Threaded rod M 8 with plug for overpanel patch PT 30 Weight in kg: 0.032		01.134
	PT 51 UNIVERSAL Double overpanel fitting 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	03.160
	PT 40 UNIVERSAL Patch for overpanel and sidelight with pivot 15 mm Ø With the order please indicate the exact glass thickness! Weight in kg: Aluminum 0.755 Brass 0.958 Stainless steel 0.937	10 13 - 19	*03.140 03.283 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.
	<p>PT 40 UNIVERSAL Patch for overpanel and sidelight with stop insert</p> <p>With the order please indicate the exact glass thickness!</p> <p>Weight in kg: Aluminum 0.755 Brass 0.958 Stainless steel 0.937</p>	<p>10 13 - 19</p>	<p>*03.440 03.483 not illustrated</p>
	<p>PT 40 UNIVERSAL Patch for overpanel and sidelight with blank insert</p> <p>With the order please indicate the exact glass thickness!</p> <p>Weight in kg: Aluminum 0.746 Brass 0.949 Stainless steel 0.928</p>	<p>10 13 - 19</p>	<p>*03.441 03.485 not illustrated</p>
	<p>PT 41 UNIVERSAL Patch for overpanel and sidelight with fin fitting inside, with pivot 15 mm Ø</p> <p>PT 41 UNIVERSAL Patch for overpanels and sidelight with stop insert</p> <p>Weight in kg: Aluminum 0.952 Stainless steel 1.197</p>	<p>10 10</p>	<p>**03.162/ 03.163 **03.262/ 03.263 not illustrated</p>
	<p>PT 41 UNIVERSAL Patch for overpanels and sidelight with fin fitting on both sides, with pivot 15 mm Ø</p> <p>Weight in kg: Aluminum 1.149 Stainless steel 1.457</p>	<p>10</p>	<p>03.161</p>

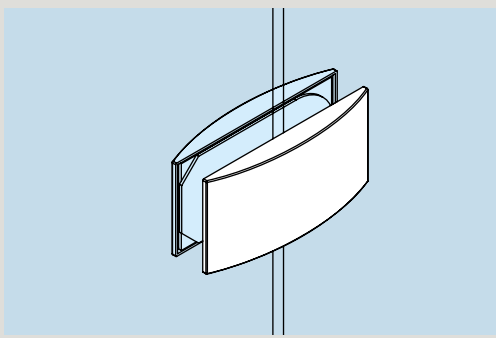
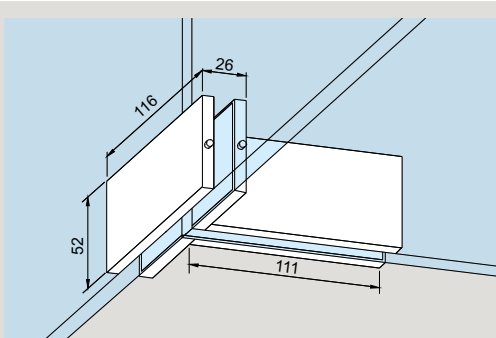
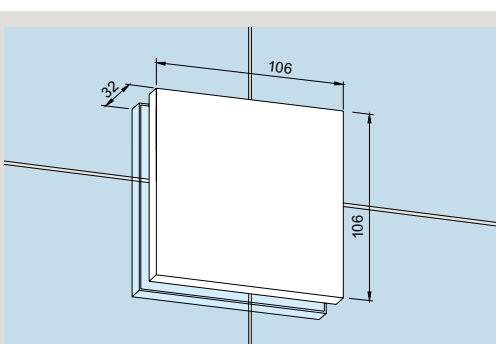
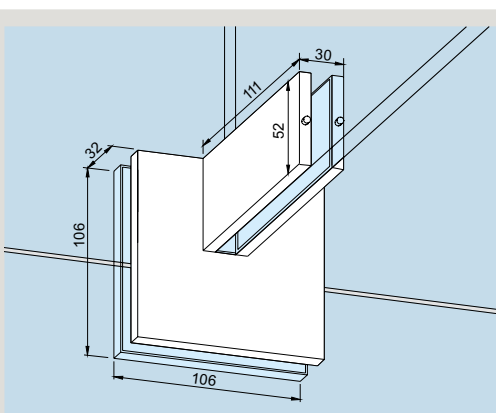
* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.

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

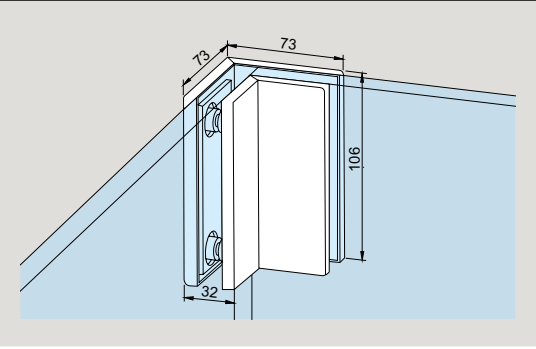
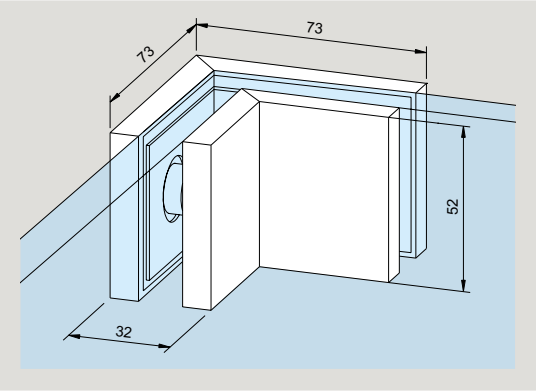
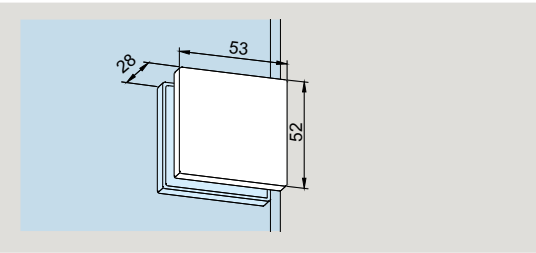
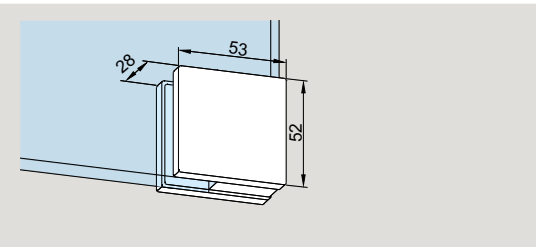
	Product description	Glass thickness	Art. No.
	<p>PT 42 UNIVERSAL Overpanel patch for single action doors with angled connector inside, pivot 15 mm, angle 90°</p>		<p>**03.164/ 03.165</p>
	<p>PT 60/61 UNIVERSAL Connector for overpanel and sidelight, for double or single action doors with one stop insert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

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

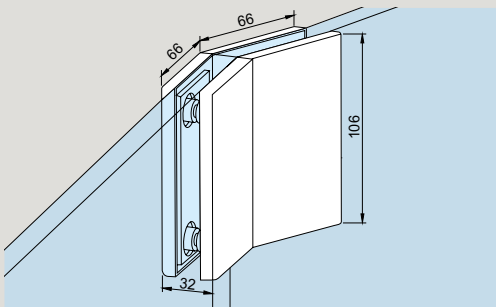
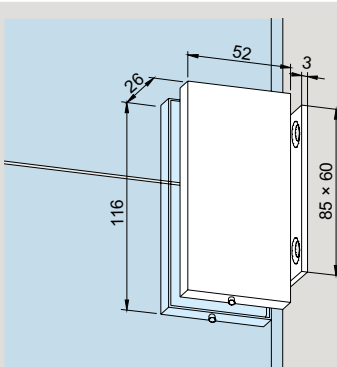
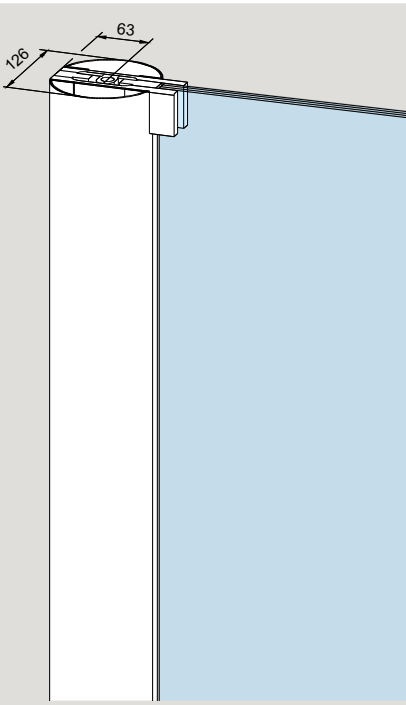
** Left hand fin (illustration shows left hand) / right hand fin. Left or right hand are determined by view from outside.

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

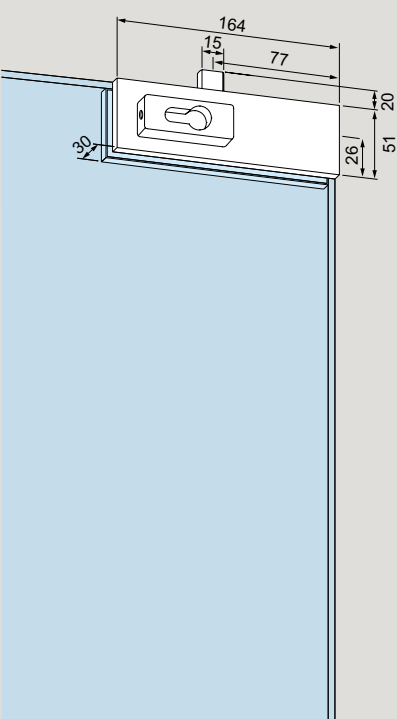
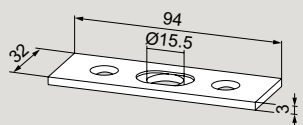
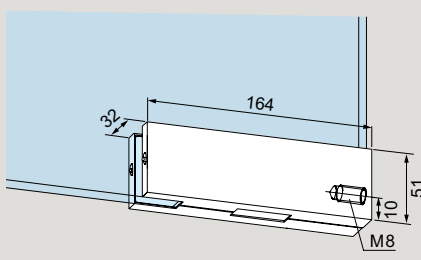
* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.

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

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

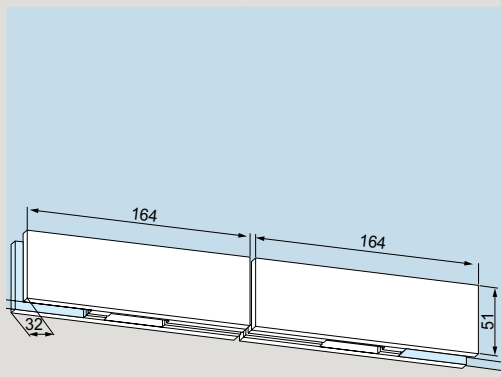
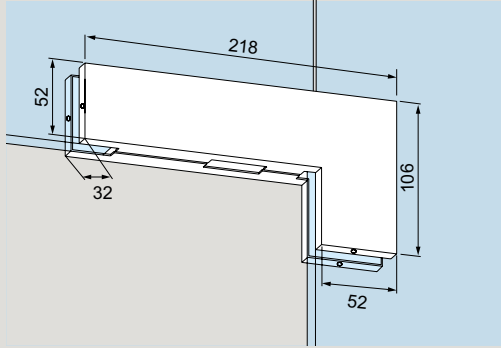
	Product description	Glass thickness	Art. No.
	<p>PT 80 UNIVERSAL Connector, angle 135°</p> <p>Weight in kg: Aluminum 0.472 Stainless steel 0.541</p>		03.172
	<p>Side connector with fixing plate</p> <p>Also suitable for 8 mm glass thickness.</p> <p>Weight in kg: Aluminum 0.313 Stainless steel 0.376</p>	10, 12	01.153
	<p>Aluminum round profile 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"> • Panel height (max. 2500 mm, higher dimension on request) • Required preparation of the profile for top and bottom fittings 	8 12	01.900 not illustrated 01.901
<p>Aluminum round profile as above, stock length 6000 mm (unprepared)</p>			03.380
<p>Aluminum round profile, as above, stock length 3000 mm (unprepared)</p>			03.381
<p>Aluminum round profile, as above, stock length 2800 mm (unprepared)</p>			03.382
<p>Aluminum round profile, as above, stock length 2800 mm (unprepared)</p> <p>Weight in kg/m: Aluminum 4.744</p>			03.383

Locks, complete for 10 mm glass thickness

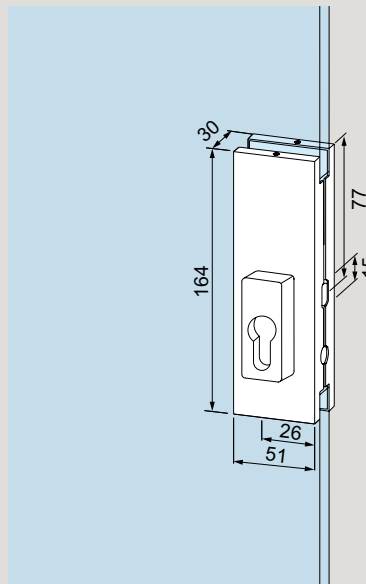
	Product description	Glass thickness	Art. No.
	US 10 UNIVERSAL corner lock, prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides, 14 mm thick.	10 13, 15, 19	03.206 03.285
	Lock insert: <ul style="list-style-type: none"> • high corrosion resistance according to EN 1670, class 4 • with regard to type-test according to EN 12209:2003** 		
	With the order please indicate the exact glass thickness!		
	prepared for round cylinder		03.340
	For half profile cylinder Left hand top/ right hand bottom		03.288
	Left hand bottom/right hand top		03.287
	Weight in kg: Aluminum 0.942 Brass 1.061 Stainless steel 1.053		
	Lock keeper plate, stainless steel, two parts, adjustable ± 5 mm		05.190
	Weight in kg: 0.048		
	Alternative (not illustrated): Floor sockets		05.192 05.193 05.194
	GK 30 UNIVERSAL Single overpanel strike box with threaded hole at side, to suit US 10 corner lock	13, 15, 19	03.230 03.295 not illustrated
	With the order please indicate the exact glass thickness!		
	Weight in kg: Aluminum 0.418 Brass 0.555 Stainless steel 0.536		
	GK 30 UNIVERSAL with stop		*03.234/03.235 not illustrated
	Weight in kg: Aluminum 0.463 Stainless steel 0.597		

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

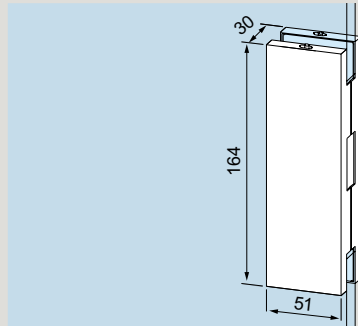
** Successful type testing according to EN 12209:2003 to 200000 movement cycles.

	Product description	Glass thickness	Art. No.
	<p>GK 20 UNIVERSAL Double overpanel strike box to suit US 10 corner lock, consisting of two GK 30 with threaded connecting bolt</p> <p>Weight in kg: Aluminum 0.844 Brass 1.096 Stainless steel 0.948</p> <p>GK 20 UNIVERSAL with stop</p> <p>Weight in kg: Aluminum 1.490 Brass 4.465</p> <p>Weight in kg: Aluminum 0.709 Brass 1.035 Stainless steel 1.010</p> <p>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.</p>		<p>03.245</p> <p>03.247 not illustrated</p>
	<p>GK 40 UNIVERSAL Corner overpanel strike box to suit US 10 corner lock</p> <p>GK 40 UNIVERSAL with stop</p> <p>Weight in kg: Aluminum 0.754 Brass 1.035 Stainless steel 1.010</p>		<p>03.250</p> <p>*03.254/03.255 not illustrated</p>

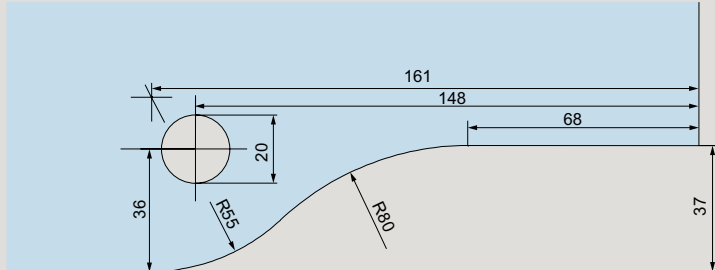
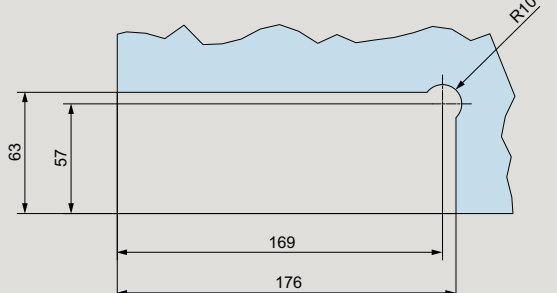
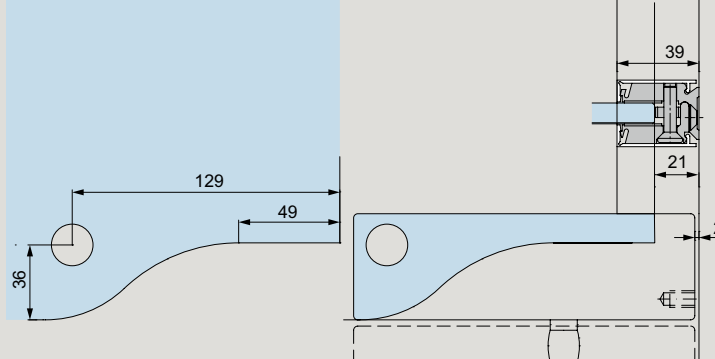
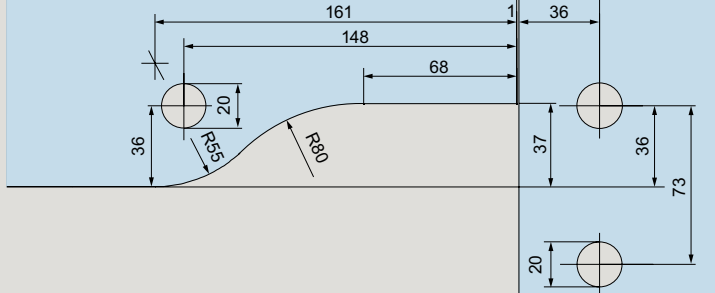
* Order of Art. No.: left hand fin / right hand fin – determined by view from outside. (Illustration shows left hand)

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

* Left or right hand are determined by view from outside. (illustration shows left hand)
 ** Successful type testing according to EN 12209:2003 to 200000 movement cycles.

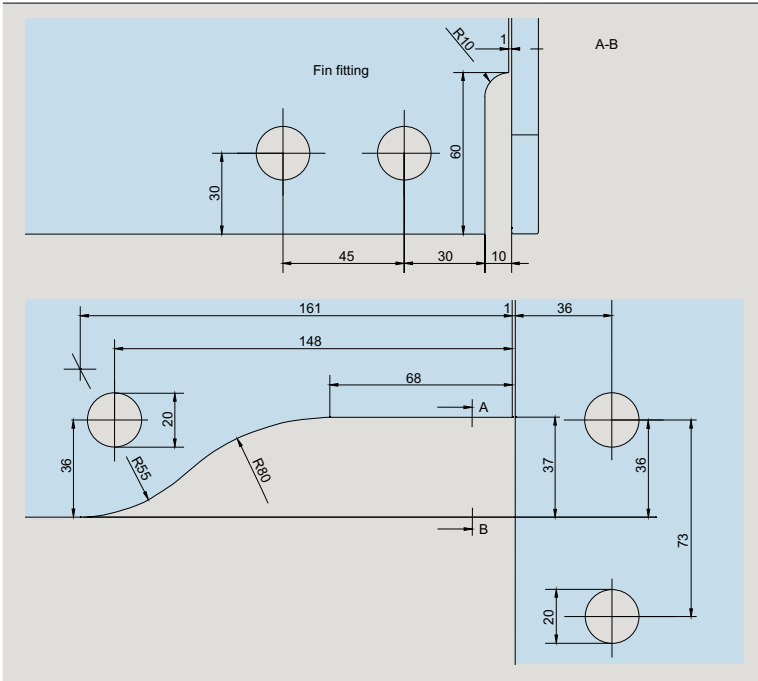
	Product description	Glass thickness	Art. No.
	<p>GK 50 UNIVERSAL Strike box to suit US 20 centre lock</p>	10	03.224
	<p>With the order please indicate the exact glass thickness!</p> <p>Weight in kg: Aluminum 0.602 Brass 0.730 Stainless steel 0.727</p>	13, 15, 19	03.296

Glass preparation fittings

	Product description	Art. No.
	<p>PT 10, PT 20, PT 22, PT 29, PT 30 Top and bottom patches, overpanel patch</p> <p>Scale 1 : 2</p>	<p>03.100 03.110 03.114 03.120 03.212 03.280 03.281 03.282 03.420 03.421</p>
	<p>Glass preparation UNIVERSAL Motion NG33</p> <p>Attention: Illustration shows required glass preparation as of May 2022</p>	
	<p>PT 30 Installation PT 30 with wall connection profile</p>	
	<p>PT 40 Patch for overpanel and sidelight</p> <p>Scale 1 : 2</p>	<p>03.140 03.283 03.440 03.441</p>

Product description

Art. No.



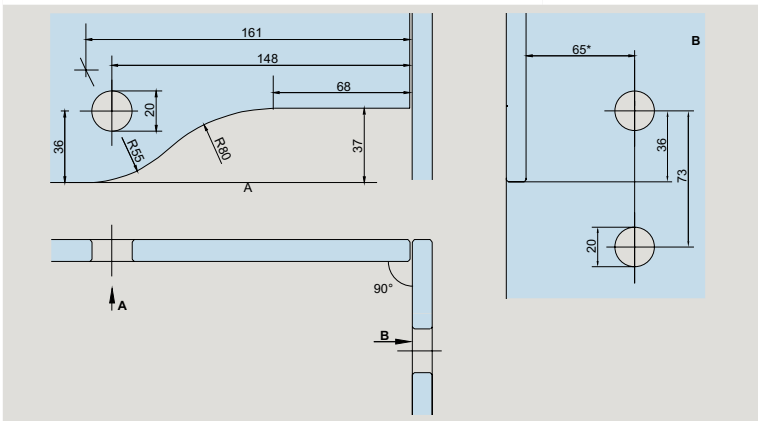
PT 41

Patch for overpanel and
sidelight with fin fitting inside

03.162

03.163

Scale 1 : 2



PT 42, GK 42

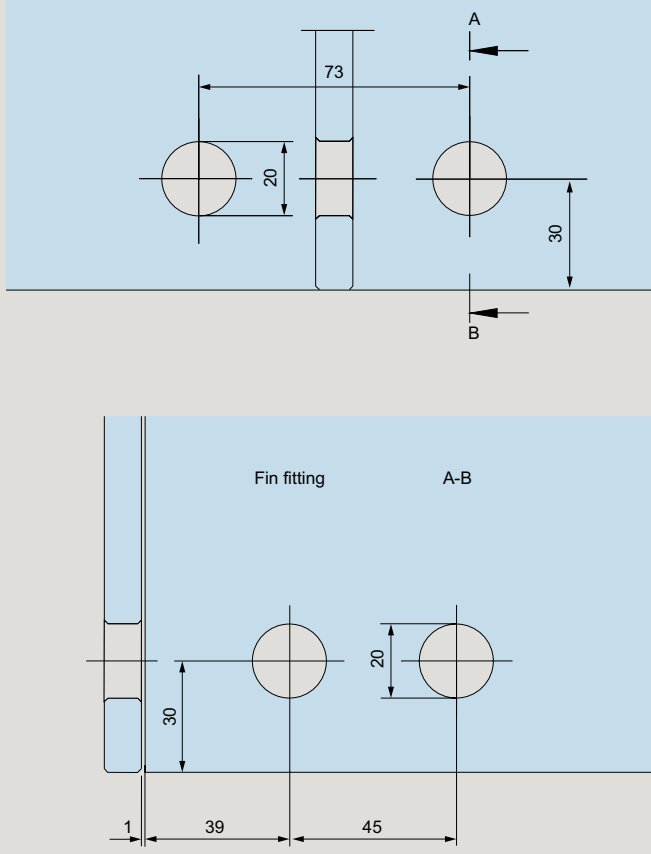
Angled connector 90°

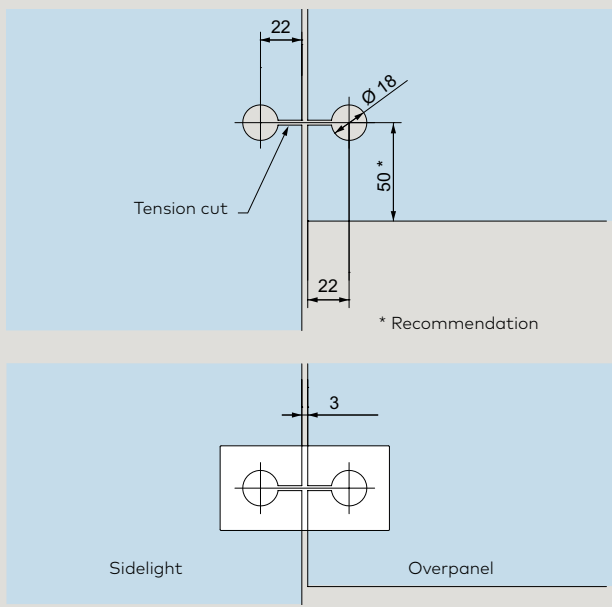
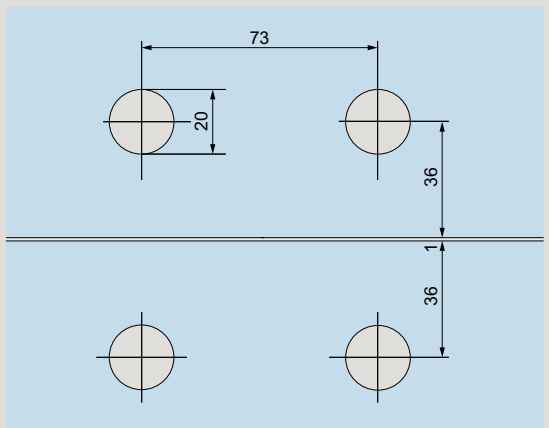
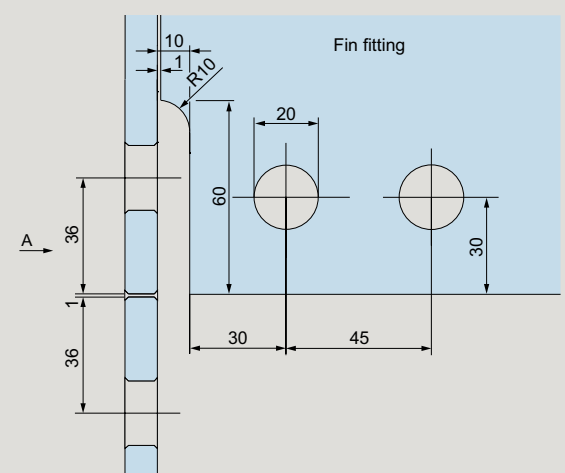
03.164

03.165

Scale 1 : 2

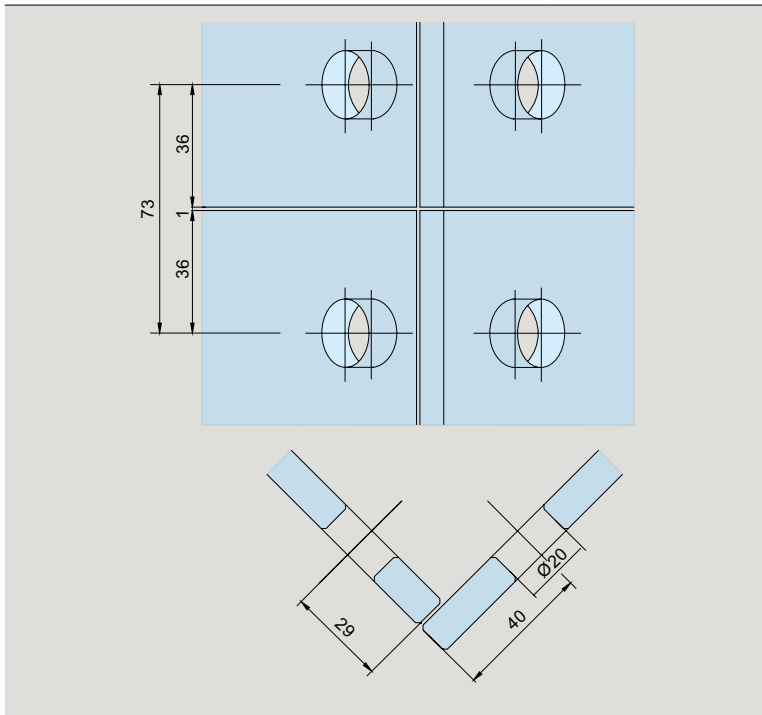
	Product description	Art. No.
	<p>PT 51 Overpanel fin fitting for back to back doors</p> <p>Scale 1 : 2.5</p>	<p>03.160</p>
	<p>PT 60/61, PT 62 Winkelverbindung Connectors for overpanels and sidelights</p> <p>Scale 1 : 2</p> <p>Glass preparation for fin fitting both sides see PT 81</p>	<p>03.150</p> 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

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

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

Product description

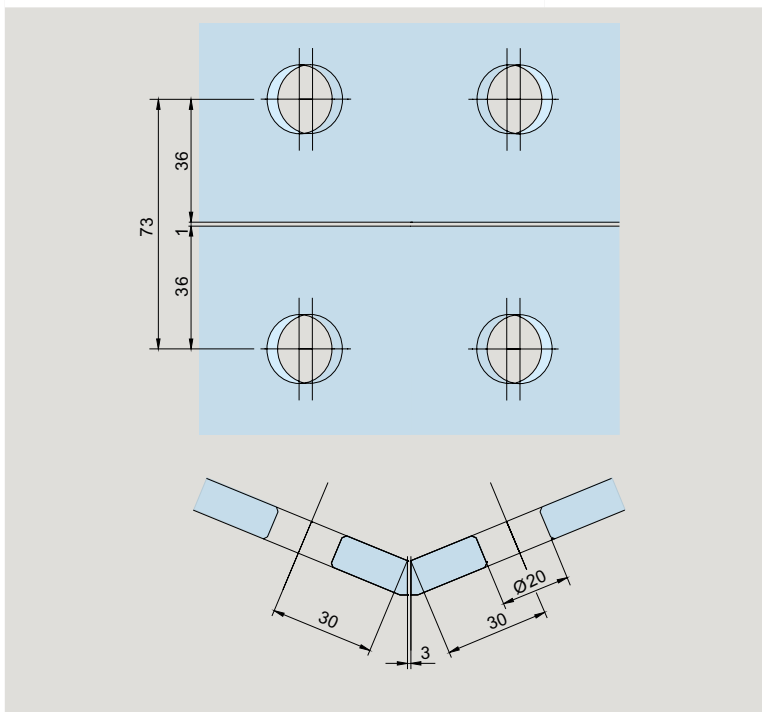
Art. No.



PT 80
Angled connector, 90°

03.171

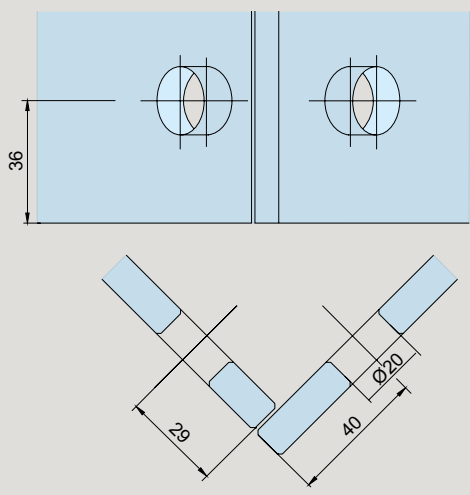
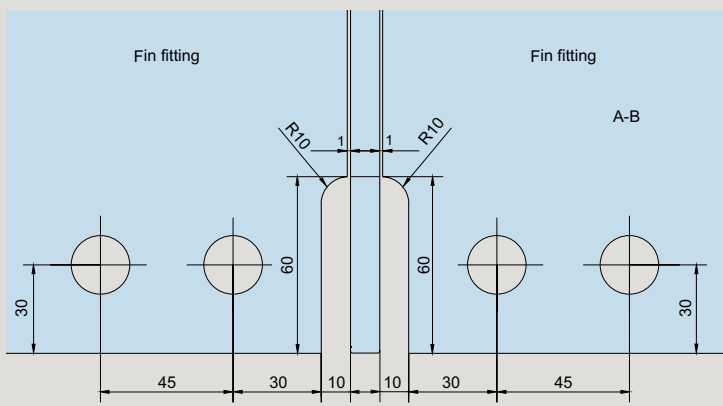
Scale 1 : 2

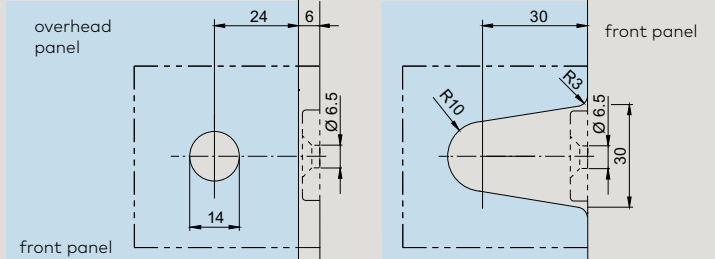
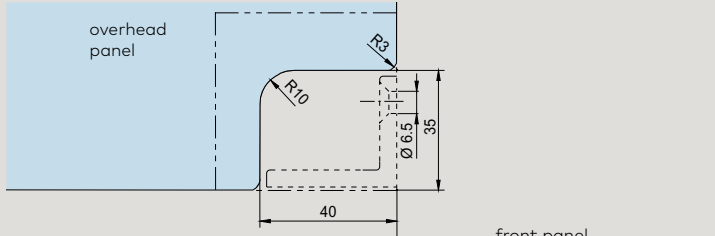
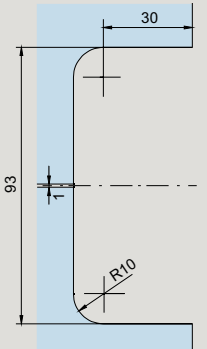


PT 80
Angled connector, 135°

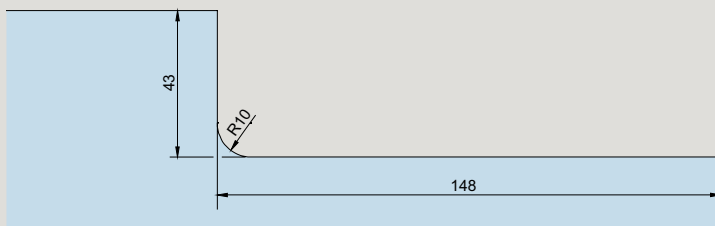
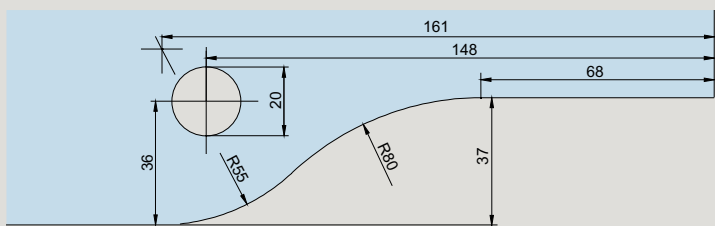
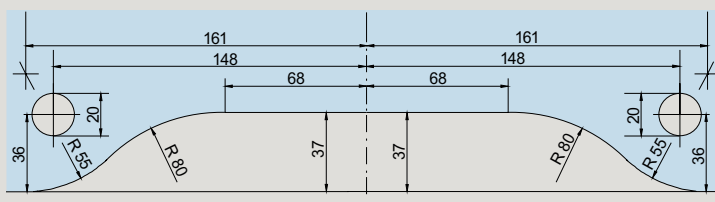
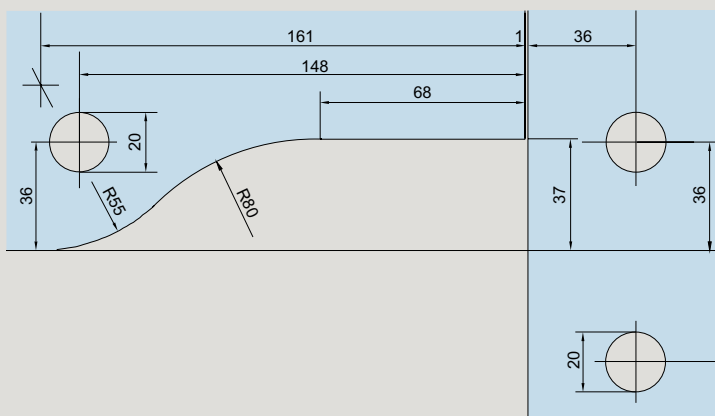
03.172

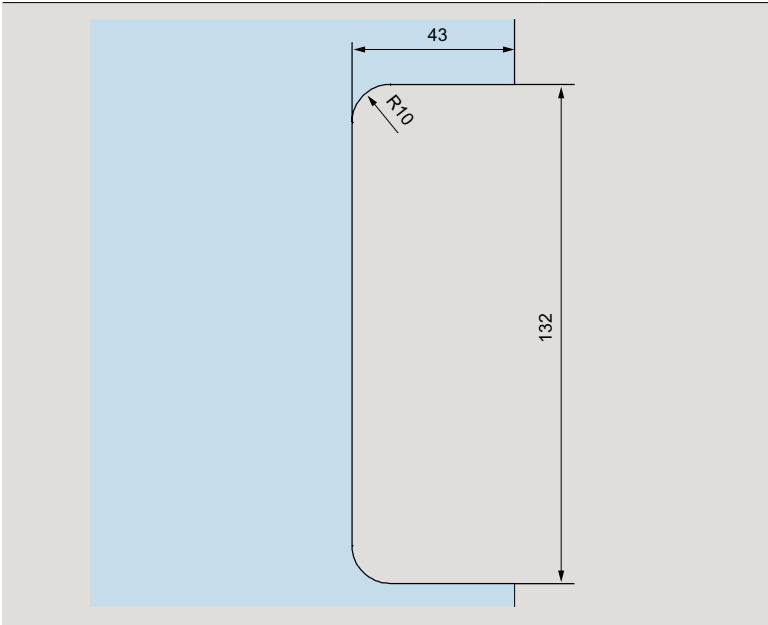
Scale 1 : 2

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

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

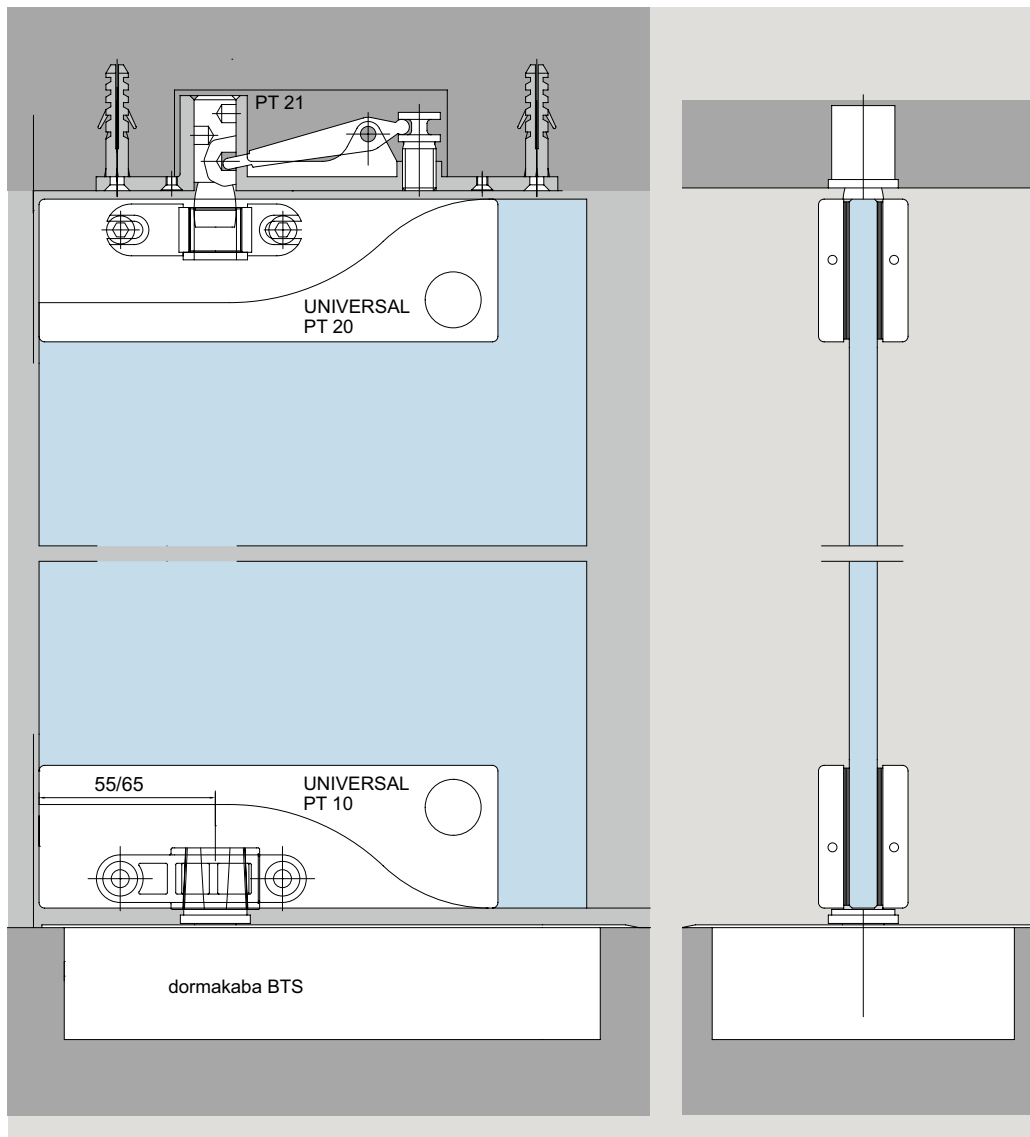
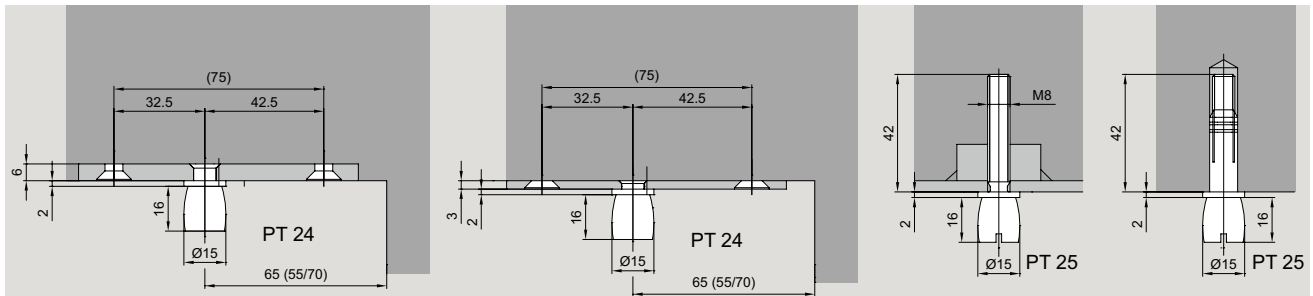
Glass preparation locks

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

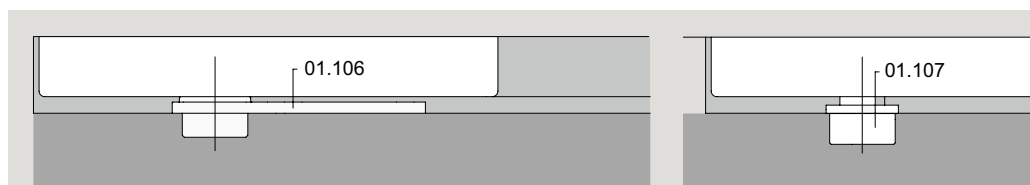
	Product description	Art. No.
	US 20. GK 50 Centre lock	03.215 03.345 03.289 03.290
	and strike box to suit centre locks	03.224
	Scale 1 : 2	

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

74	General information
75	Type illustrations
76	Components
204	Accessories
226	Safety-related information



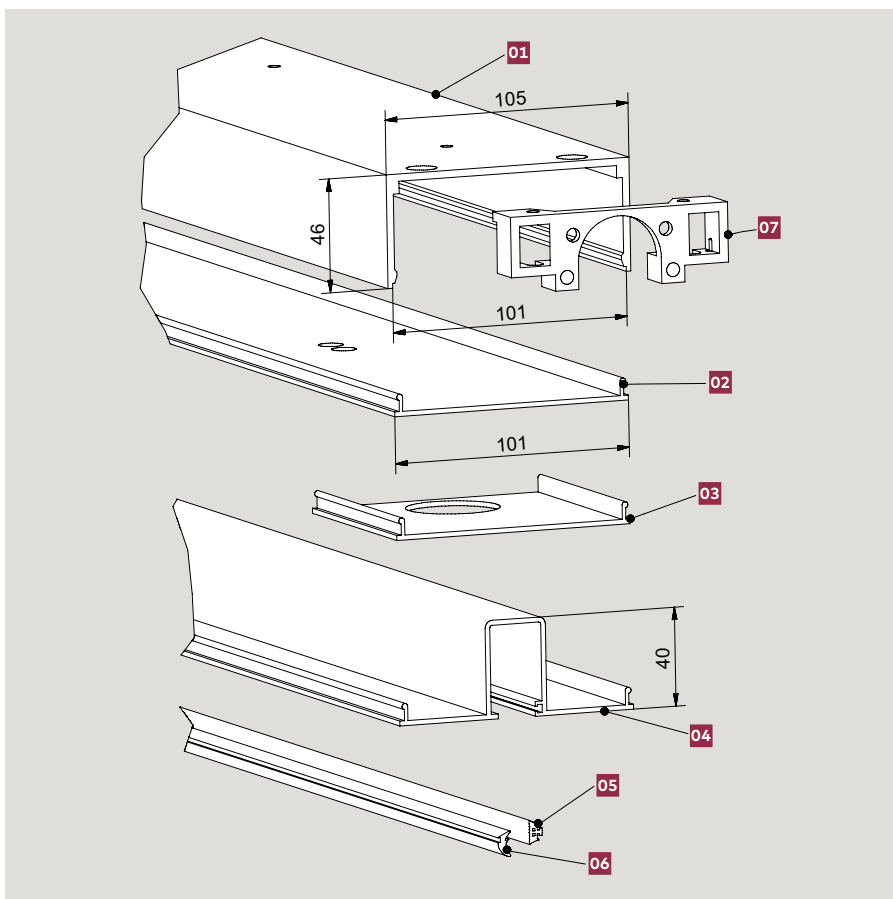
RP

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).

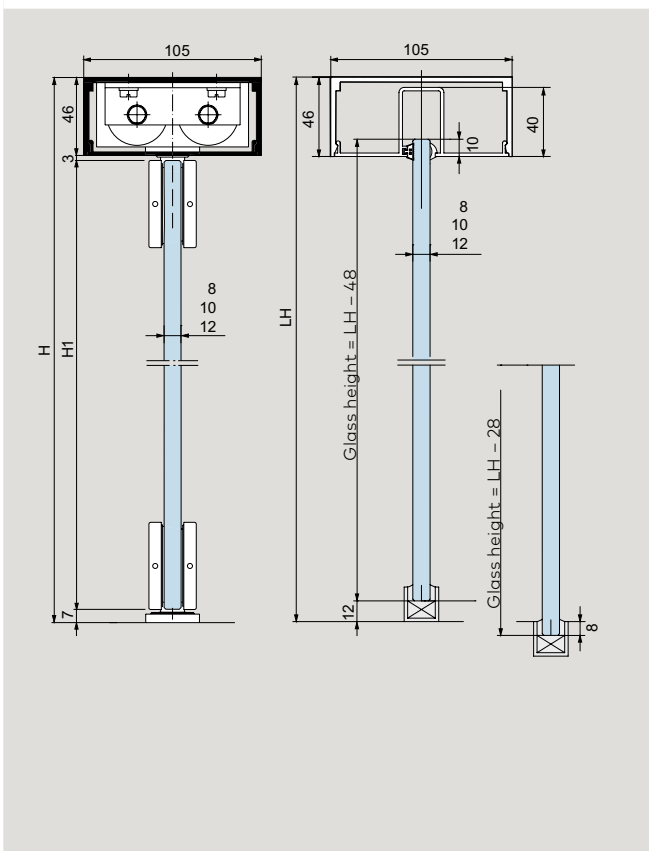
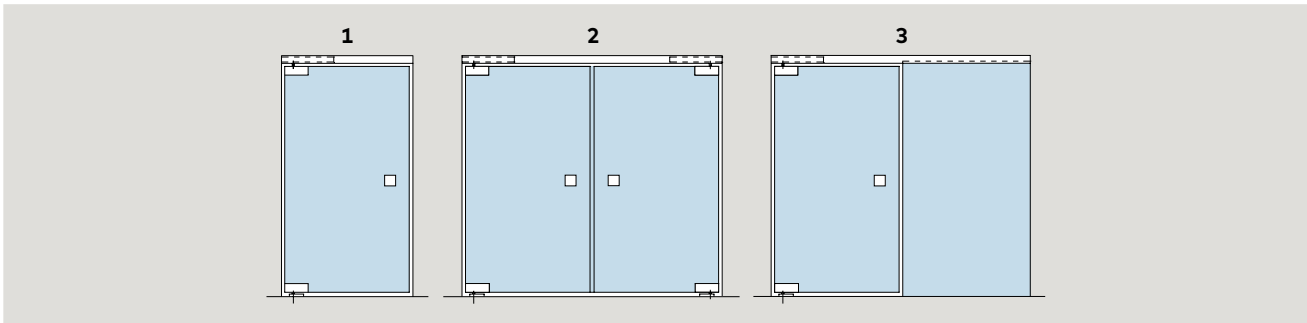
The RTS transom closer not only returns the door to the zero position each time it is opened, it also has a special dampening system to protect the door against unwanted impact caused by over-aggressive opening. In addition, the integral hold-open, which also comes as standard, enables the door to be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



Transom tube configuration:

- 01**
Transom tube for fixing on ceiling, as lintel or similar, max. length 6000 mm
- 02**
Cover profile for door, clip-on, max. length 6000 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 6000 mm are possible.

Materials and finishes

- AL anodized, EV1, sanded, matte (for profiles: stained, matte) (101)
- AL anodized, similar stainless steel, satin (for profile material) (similar Anodizing II C 31) (113)
- AL powder coated, Traffic white, smooth, glossy (sim. RAL 9016) (300)
- AL anodized, special (199)
- AL powder coated, Special color (Standard powder according to the corresponding overview on our website. A price surcharge is possible for special colors outside the color range specified there.) (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

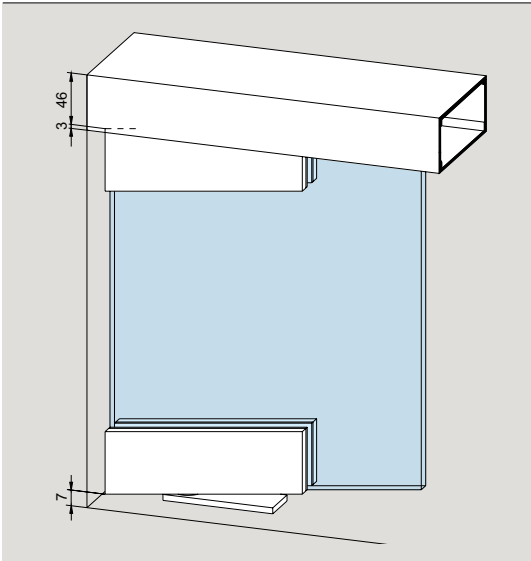
Also with door rails available

max. height	max. width	max. door weight (incl. fittings)	RTS version	
2500	800-1100	80 kg	RTS EN 3	
3500	max. 1250	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>Double-action system for glass doors complete, for door width up to 1000 mm, consisting of</p> <ul style="list-style-type: none"> 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>Weight in kg: 8.083</p> <p>When ordering, please indicate the precise system dimensions or attach a corresponding drawing.</p>	<p>01.300</p>

	Product description	Art. No.
	<p>01 Transom tube for fixing at ceiling, as lintel, or similar, stock length 6000 mm in fixed lengths Weight in kg/m: Aluminum 1.620</p>	<p>01.301 01.311</p>
	<p>02 Cover profile for door area, clip-on stock length 6000 mm in fixed lengths Weight in kg/m: Aluminum 0.610</p>	<p>01.302 01.305</p>
	<p>03 Cover plate with cut-out for door closer spindle length 90 mm Weight in kg: Aluminum 0.056</p>	<p>01.303</p>
	<p>04 Cover profile with glass groove to clip on Art.No. 01.301 / 311, to hold fixed sidelights inclusive</p>	
	<p>05 / 06 Contact profile or glass wedge profile in 2 resp. 4 mm thicknesses, depending on combination for 8, 10 or 12 mm glass thickness of the sidelight stock length 6000 mm in fixed lengths Weight in kg: Aluminum 0.810</p>	<p>01.304 01.314</p>
	<p>07 Fixing bracket for securing transom tube and closer Weight in kg: Aluminum 0.080</p>	<p>01.306</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.

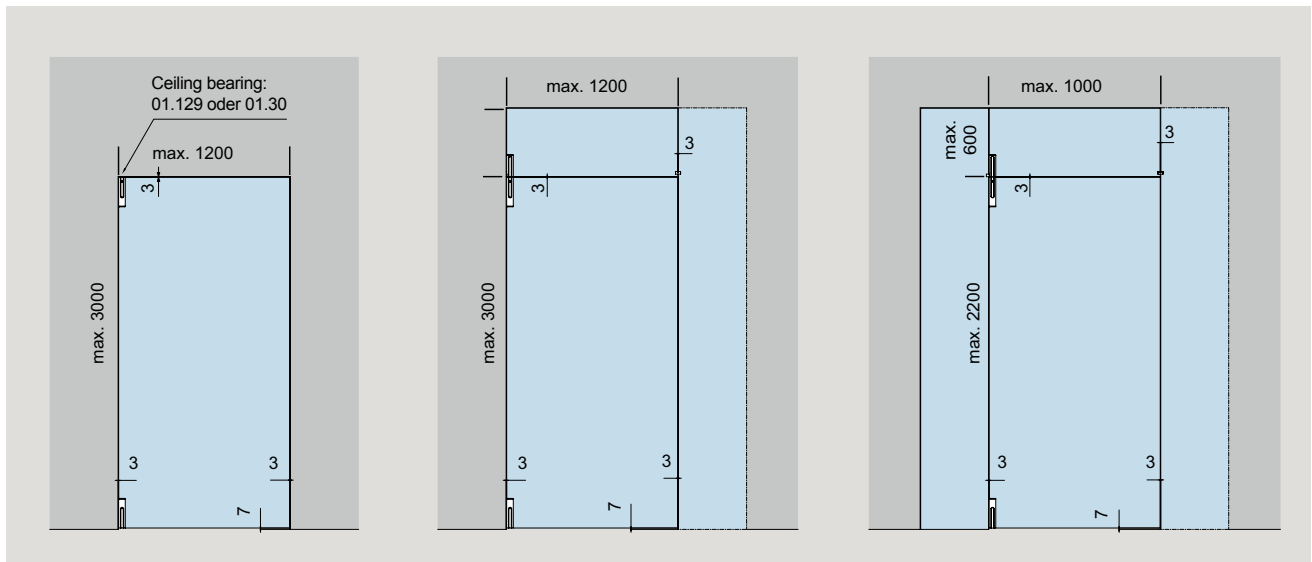
Load transfer from the overpanel and side panel can be effected by means of wall adapter profiles.

Depending on customer requirements, BEYOND offers suitable fittings for 10 mm and 12 mm glass. Finishes for fittings and accessories:
 AL anodized, EV1 Deco, satin, matte (compatible with finish 150) (114) or AL anodized, similar stainless steel, polished, matte (107).

For maximum values please see the typical assemblies.

Note:

Overpanel fitting wall connector
 max. 1200 mm door width;
 overpanel fitting glass connector
 max. 1000 mm door width.



Basic set for individual door.
 For installation in masonry.
 Optionally with side panel on closing side.

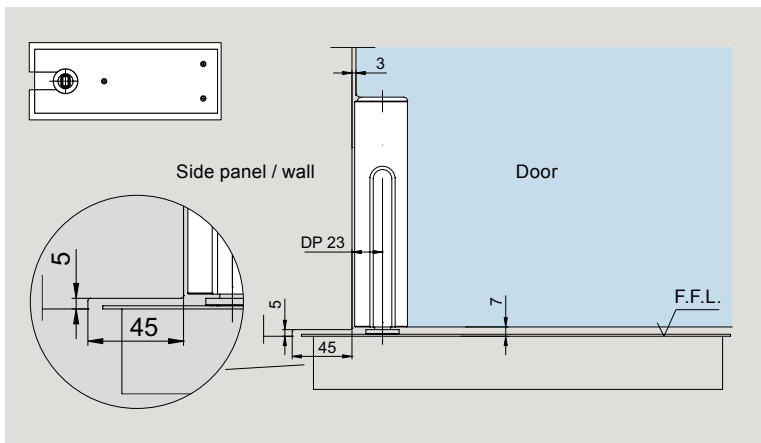
Max door height 3000 mm
 Max door weight 80 kg

Basic set and over panel fitting wall connector for door with over panel.
 Optionally with side panel on closing side.

Max door height 3000 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.

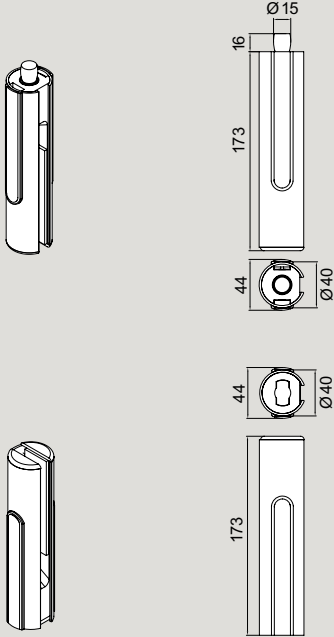
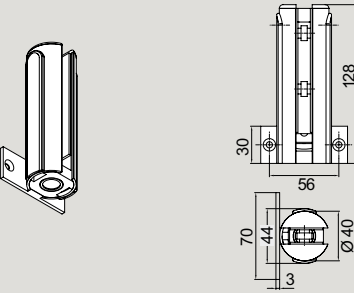
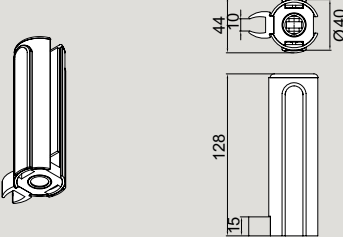
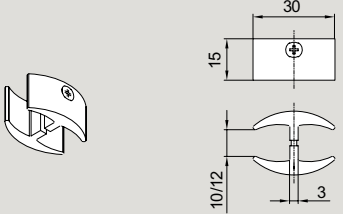
Max door height 2200 mm
 Max door weight 80 kg



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.
	<p>BEYOND basic set: Pivoting fitting set, short type, comprising</p> <ul style="list-style-type: none"> • 1 top pivot fitting with pivot Ø 15 mm, • 1 bottom pivot fitting with insert for floor spring spindle (90° turnable, e. g. dormakaba BTS 80) or round pivot 	10 12	30.100 30.101
	<p>BEYOND overpanel fitting, wall connector, with plastic socket for top pivot</p>	10 12	30.120 30.121
	<p>BEYOND overpanel fitting, glass connector, with plastic socket for top pivot</p>	10 12	30.130 30.131
	<p>BEYOND glass connector, plastic, black, for connection of side panel at closing side</p>	10 and 12	30.320

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 2200 mm, an anti-vibration device located midway along the pivot rod ensures quiet door operation.

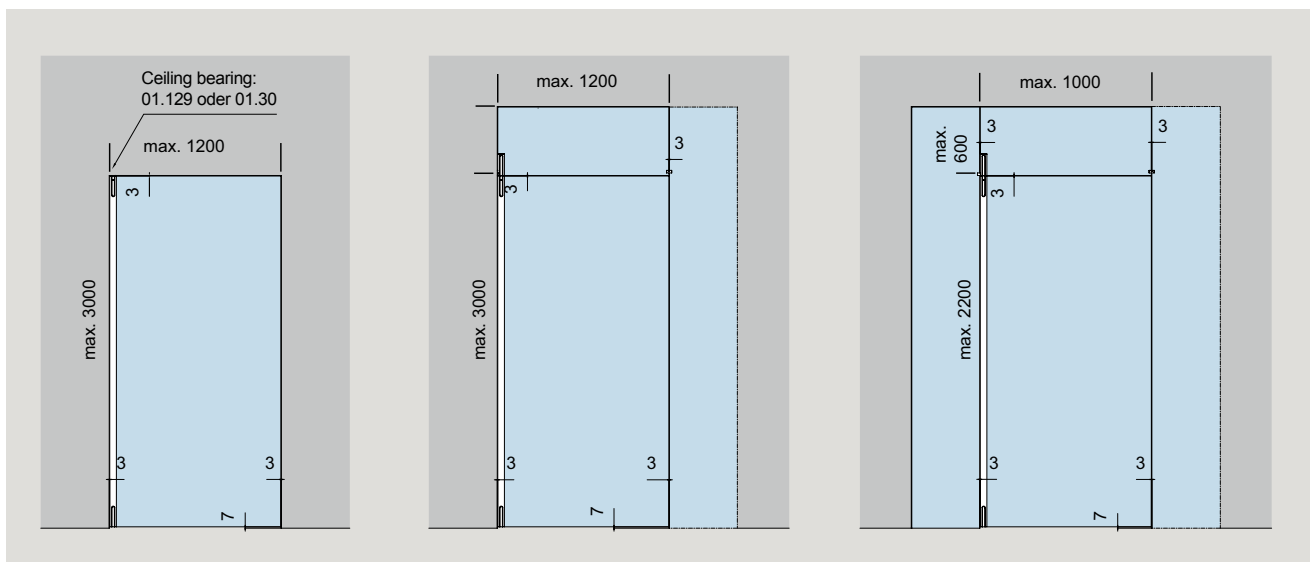
Depending on customer requirements, BEYOND offers suitable fittings for 10 mm and 12 mm glass.

Finishes for fittings and accessories: AL anodized, EV1 Deco, satin, matte (compatible with finish 150) (114) or AL anodized, similar stainless steel, polished, matte (107).

For maximum values please see the typical assemblies.

Note:

Overpanel fitting wall connector
max. 1200 mm door width;
overpanel fitting glass connector
max. 1000 mm door width.



Basic fitting for individual door.

For installation in masonry.

Max door height 3000 mm
Max. door weight 80 kg

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

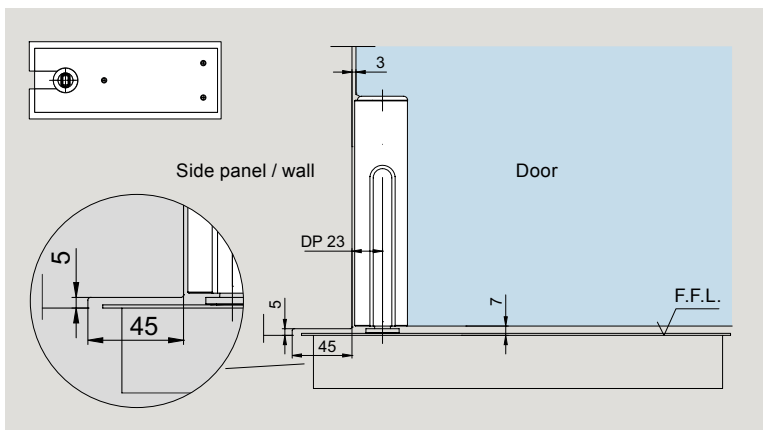
Optionally with side panel on closing side.

Max door height 3000 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.

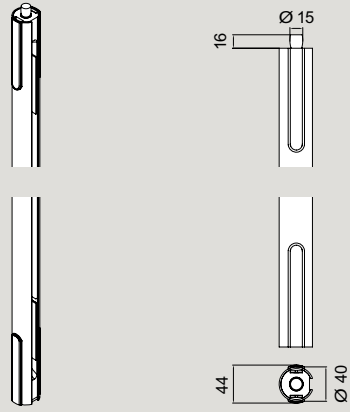
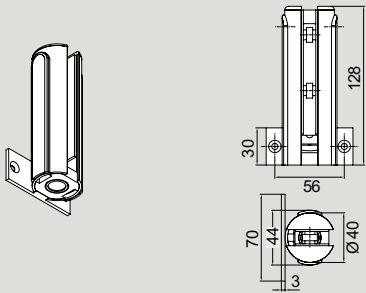
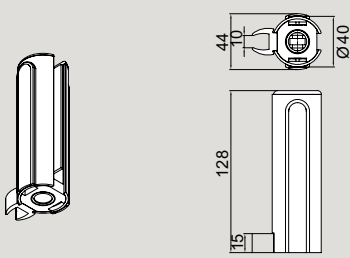
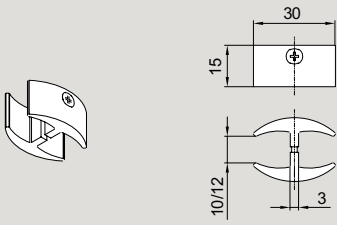
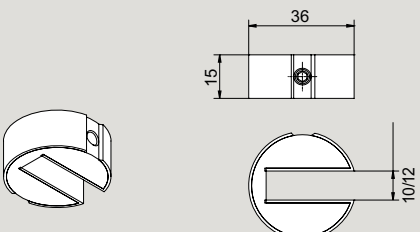
Max door height 2200 mm
Max. door weight 80 kg



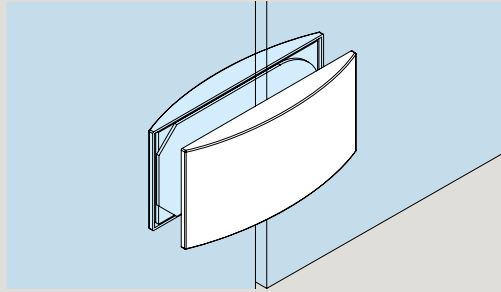
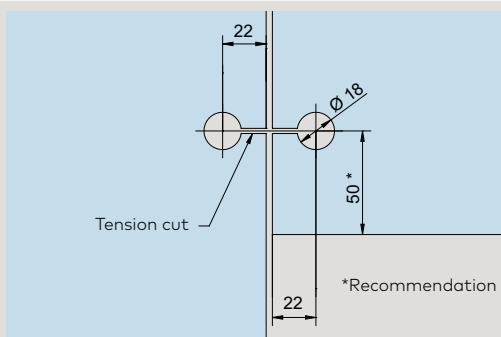
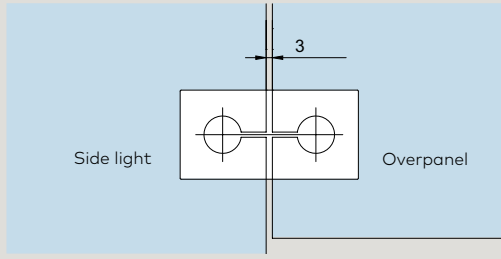
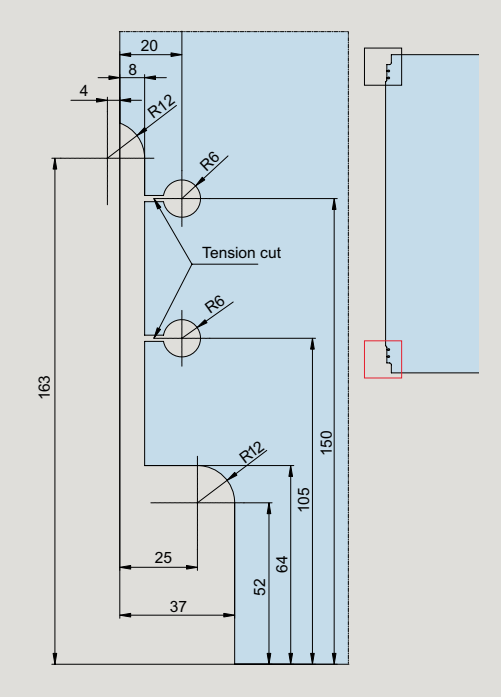
Combination BEYOND and dormakaba BTS

(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

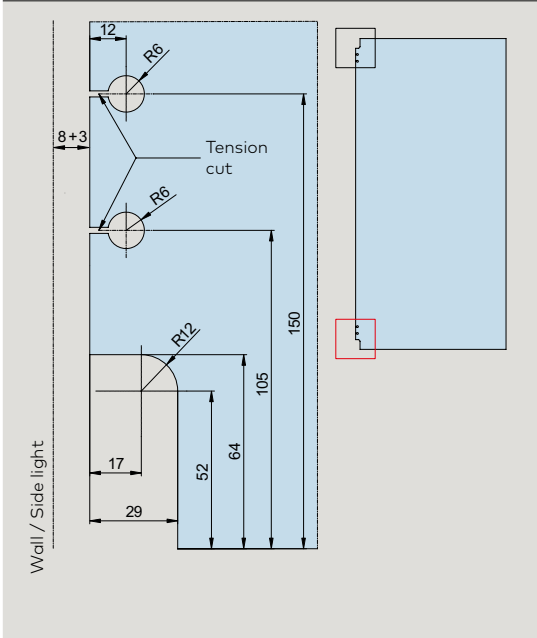
	Product description	Glass thickness	Art. No.
	<p>BEYOND basic fitting: Pivoting fitting, long type, with pivot Ø 15 mm at top and insert for floor spring spindle (90° turnable, e. g. dormakaba BTS 80) or round pivot at bottom</p> <p>Please indicate exact door height = glass measurement with order.</p>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

Glass preparation

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

Product description

Art. No.

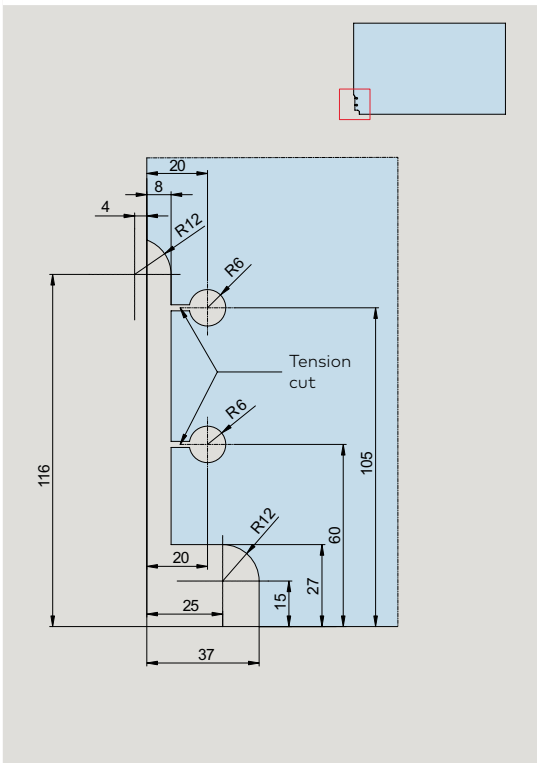


Pivoting fitting, long type

Drawing shows the bottom glass penetration.
Top edge of glass is prepared accordingly.

30.110

30.111



Overpanel fitting

Wall connector and
glass connector

30.120

30.121

30.130

30.131

Content

EA

90	General information
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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

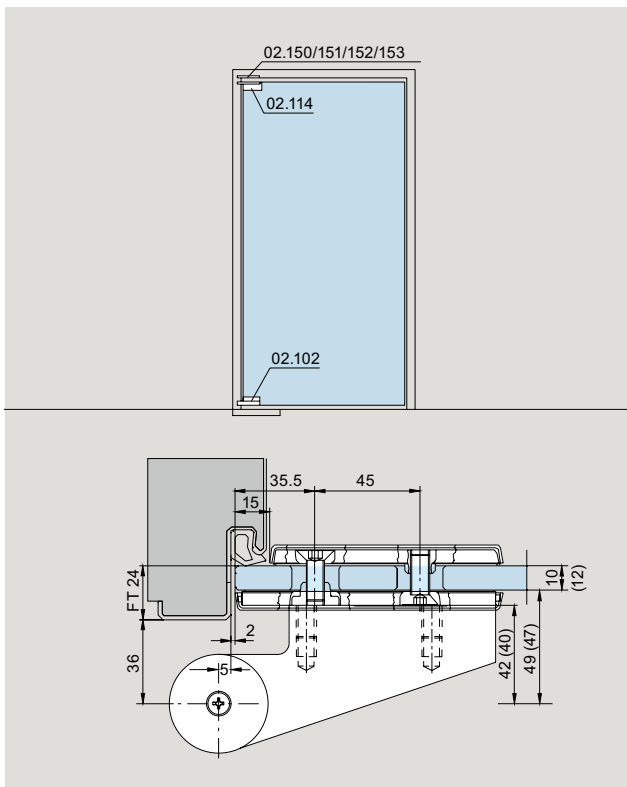
- AL anodized, EV1, sanded, matte (for profiles: stained, matte) (101)
- AL anodized, similar stainless steel, polished, matte (107)
- AL anodized, special (199)
- AL powder coated, Special color (Standard powder according to the corresponding overview on our website. A price surcharge is possible for special colors outside the color range specified there.) (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

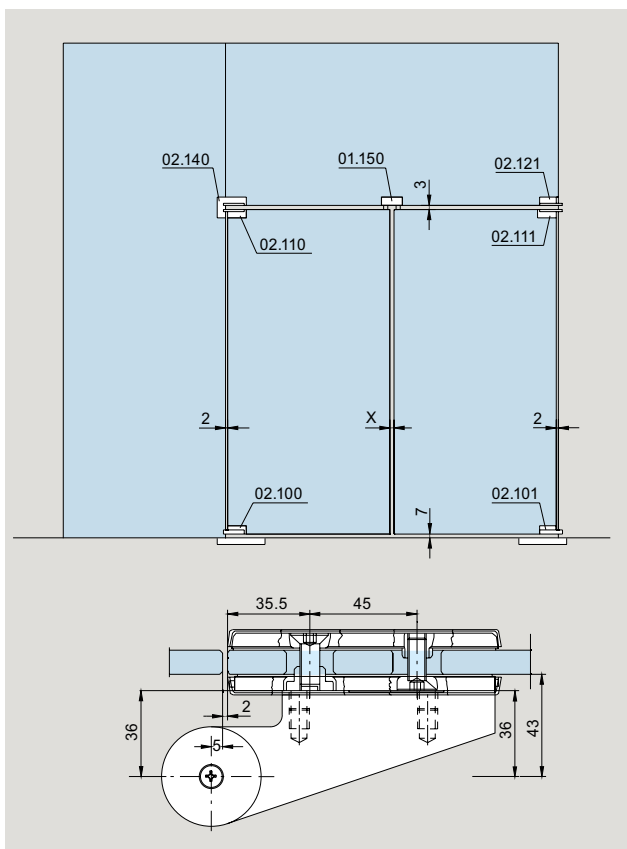
max. door weight: 90 kg
max. door width: 1000 mm,
using a bottom door rail: 1100 mm

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 1000 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: 1100 mm

For door weights up to 100 kg and widths up to 1200 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

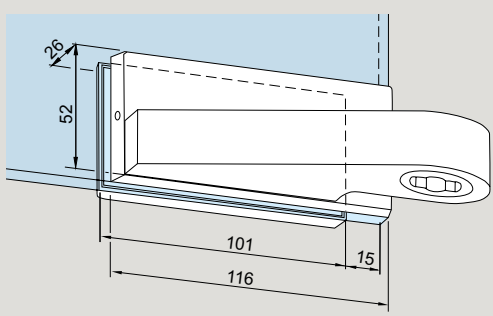
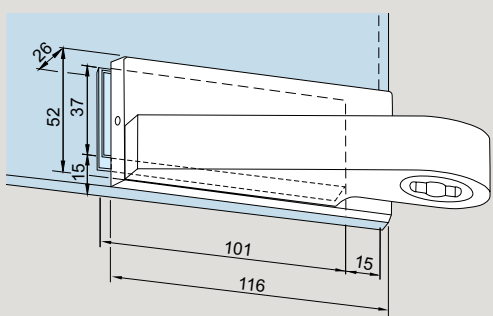
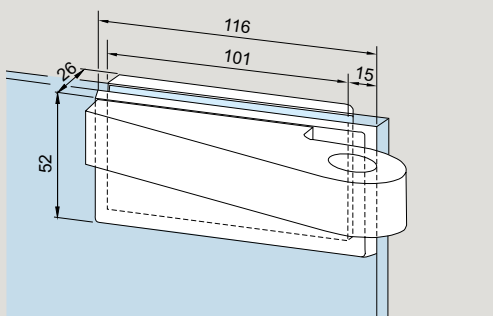
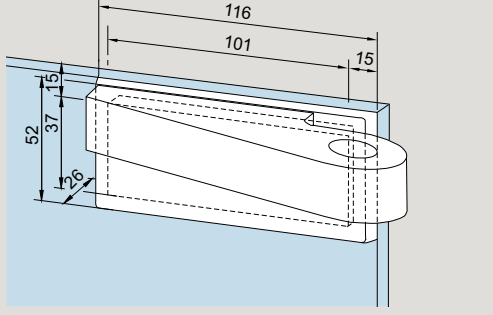
Individual leaf width in mm	X = gap required in mm
400–600	8
600–1000	6

Torque for fixing screws

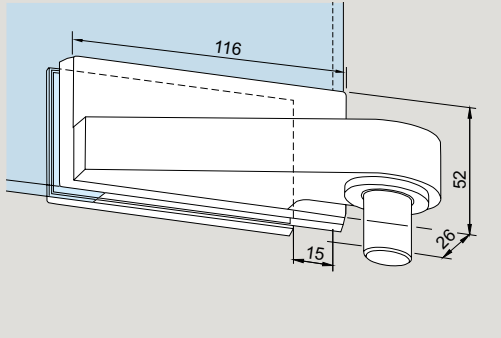
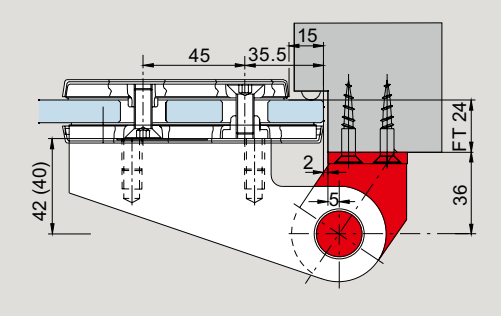
Screws M 8: 12 Nm

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.
	<p>Bottom patch fitting to suit floor spring spindle, or round pivot 14 mm Ø counter-plate reduced by 15 mm to give free glass edge at side</p> <p>Weight in kg: Aluminum 0.747</p>	10, 12	*02.102/02.103
	<p>Bottom patch fitting 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</p> <p>Weight in kg: Aluminum 0.715</p>	10, 12	*02.104/02.105
	<p>Top patch fitting counter-plate reduced by 15 mm to give free glass edge at side</p> <p>Weight in kg: Aluminum 0.680</p>	10, 12	*02.112/02.113
	<p>Top patch fitting counter-plate reduced by 15 mm to give free glass edge at side and top</p> <p>Weight in kg: Aluminum 0.644</p>	10, 12	*02.114/02.115

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

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

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

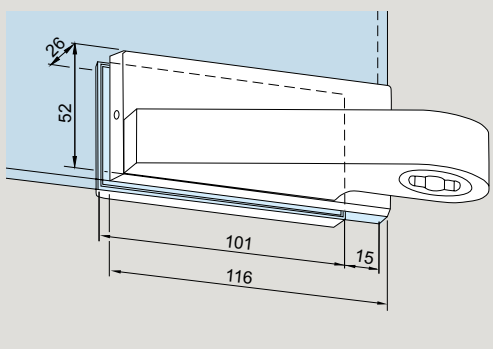
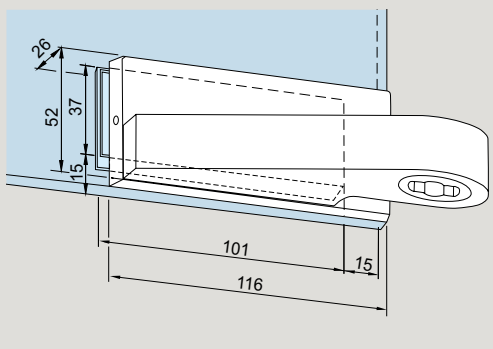
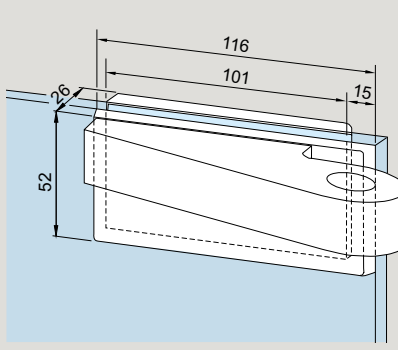
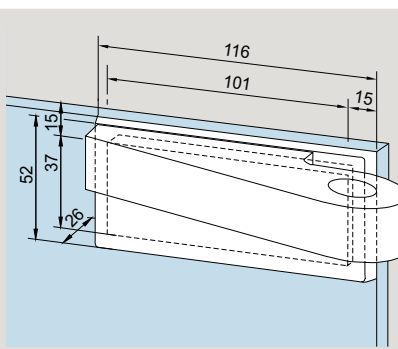
Patch fittings for offset hung doors in rebated frames with individual frame stop depth

Please specify rebate depth with order.

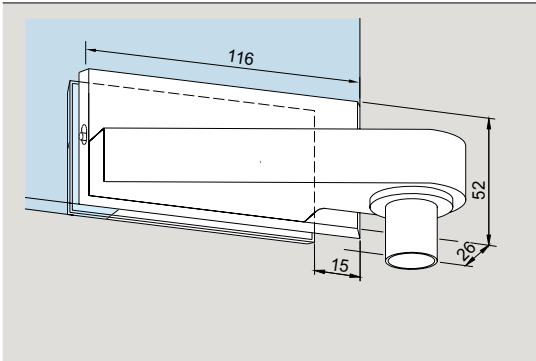
Rebate depth X = distance between outer surface of frame and rebate/stop (15 to 23 resp. 25 to 40 mm).

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.
	Bottom patch fitting 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	*02.106/02.107
	Bottom patch fitting 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	*02.108/02.109
	Top patch fitting counter-plate reduced by 15 mm to give free glass edge at side Weight in kg: Aluminum 0.760	*02.116/02.117
	Top patch fitting counter-plate reduced by 15 mm to give free glass edge at side and top Weight in kg: Aluminum 0.728	*02.118/02.119

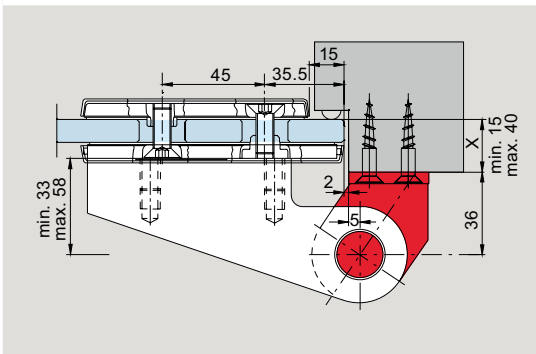
*Order of Art.No.: Left hand / right hand – determined by view from hanging side.
(Illustration shows right hand)

Product description**Art. No.****Overpanel patch fitting**

counter-plate reduced by
15 mm to give free glass edge at side

Weight in kg:
Aluminum 0.724

*02.124/02.125

**Top patch fitting**

complete with pivot for frame fixing,
counter-plate reduced by 15 mm to give free
glass edge at side

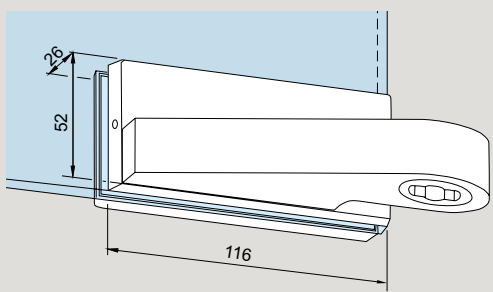
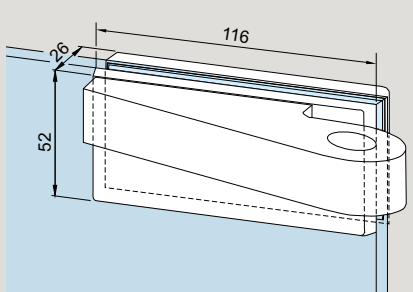
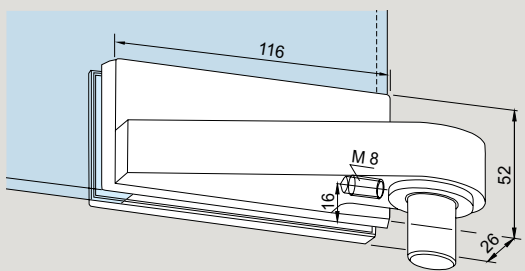
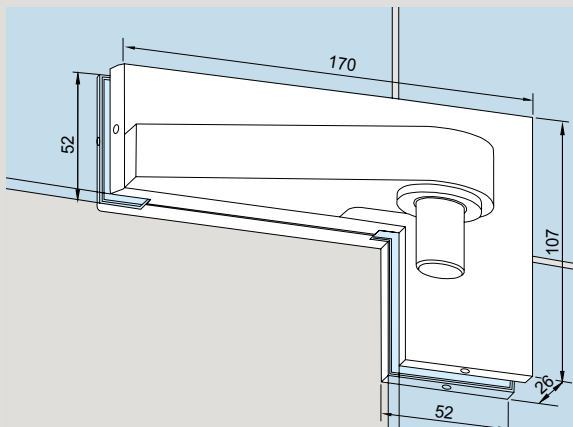
Weight in kg:
Aluminum 0.995

*02.208/02.209

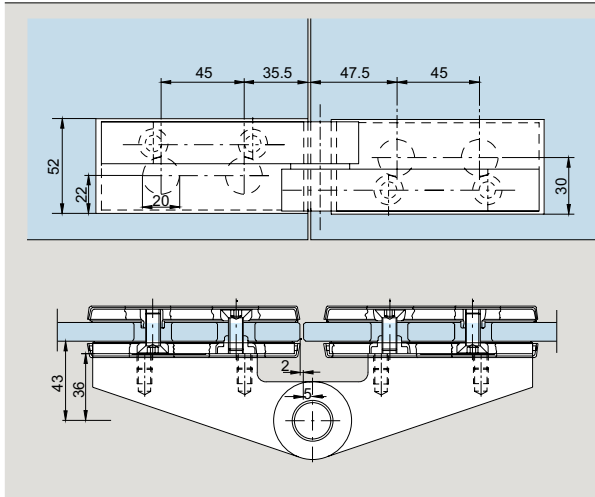
*Order of Art.No.: Left hand / right hand – determined by view from hanging side.
(Illustration shows right hand)

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.
	Bottom patch fitting to suit floor spring spindle, or round pivot 14 mm Ø Weight in kg: Aluminum 0.730	*02.100/02.101
	Top patch fitting Weight in kg: Aluminum 0.660	*02.110/02.111
	Overpanel patch fitting bushing outside Ø 20 mm, pivot Ø 15 mm Weight in kg: Aluminum 0.637	*02.120/02.121
	Patch fitting for overpanel and sidelight bushing outside Ø 20 mm, pivot Ø 15 mm Weight in kg: Aluminum 0.832	*02.140/02.141

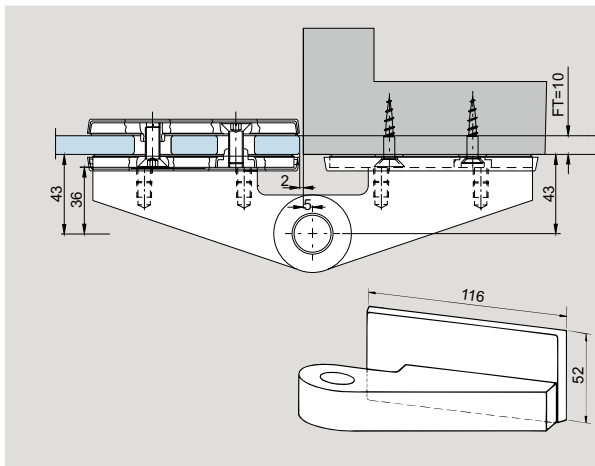
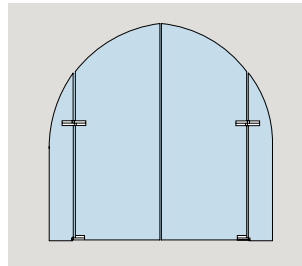
* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

Product description**Art. No.****Top patch fitting**

complete with pivot for sidelight

***02.200/02.201**

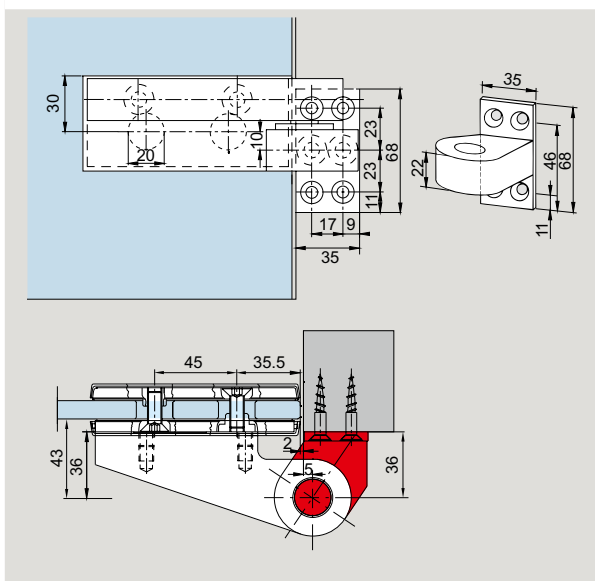
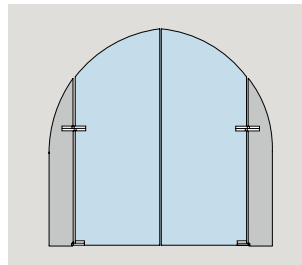
Weight in kg:
Aluminum 1.415

**Top patch fitting**

complete with pivot for wall fixing

***02.202/02.203**

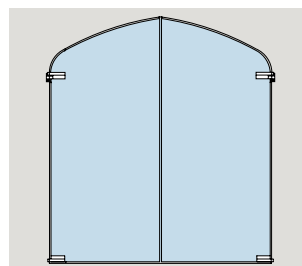
Weight in kg:
Aluminum 1.277

**Top patch fitting**

complete with pivot for frame fixing

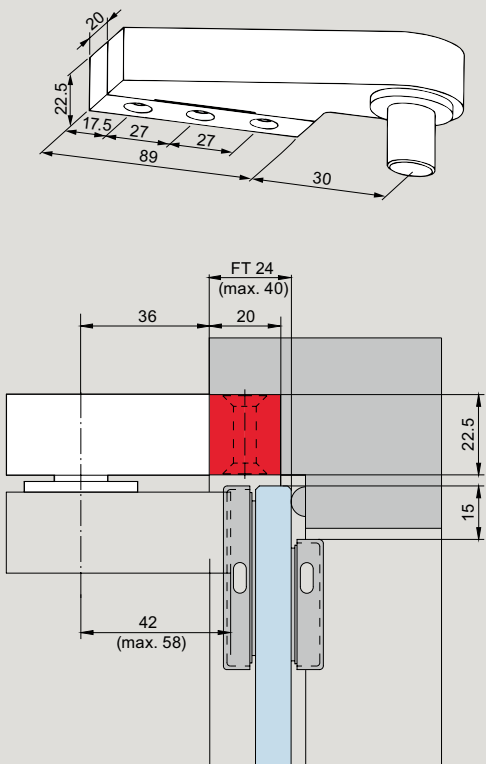
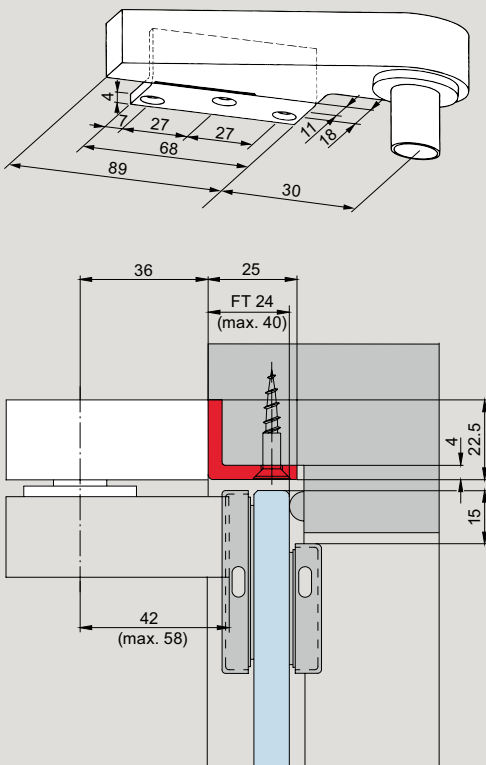
***02.204/02.205**

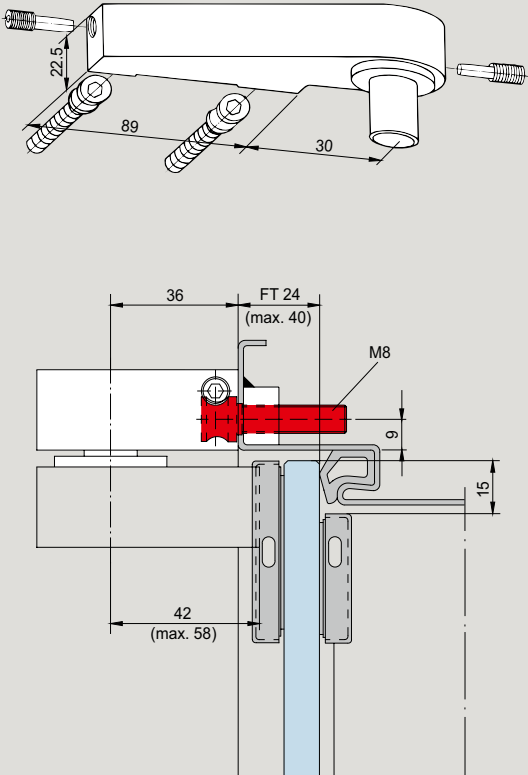
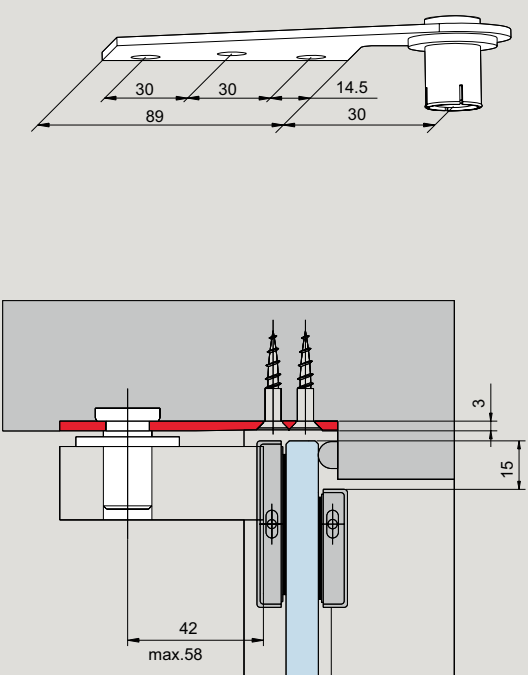
Weight in kg:
Aluminum 0.895



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

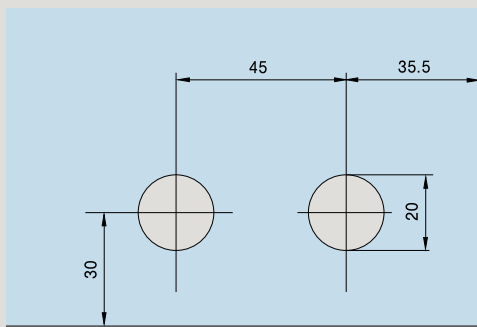
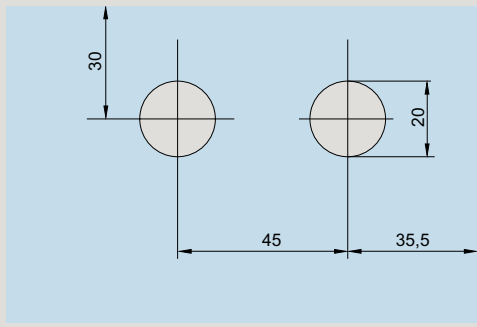
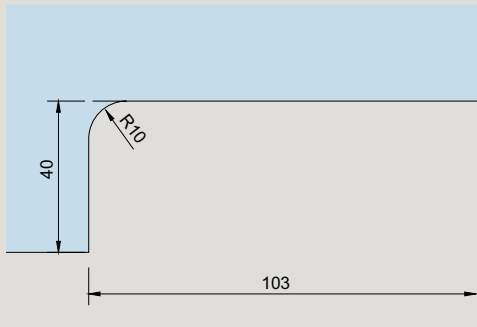
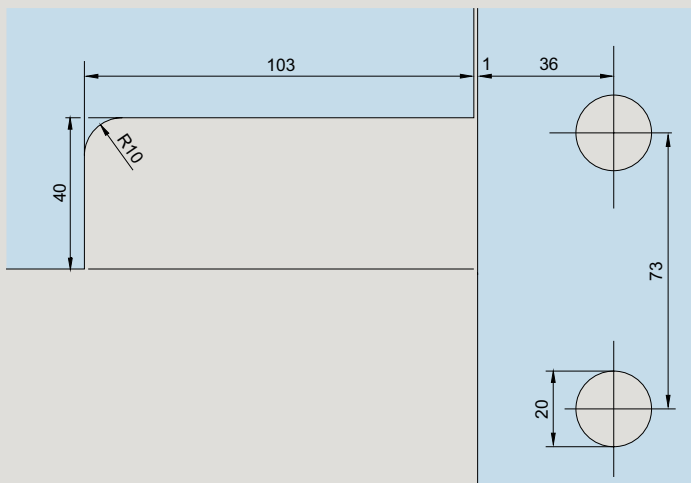
Top centres for wood and steel frames

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

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

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

Glass preparation

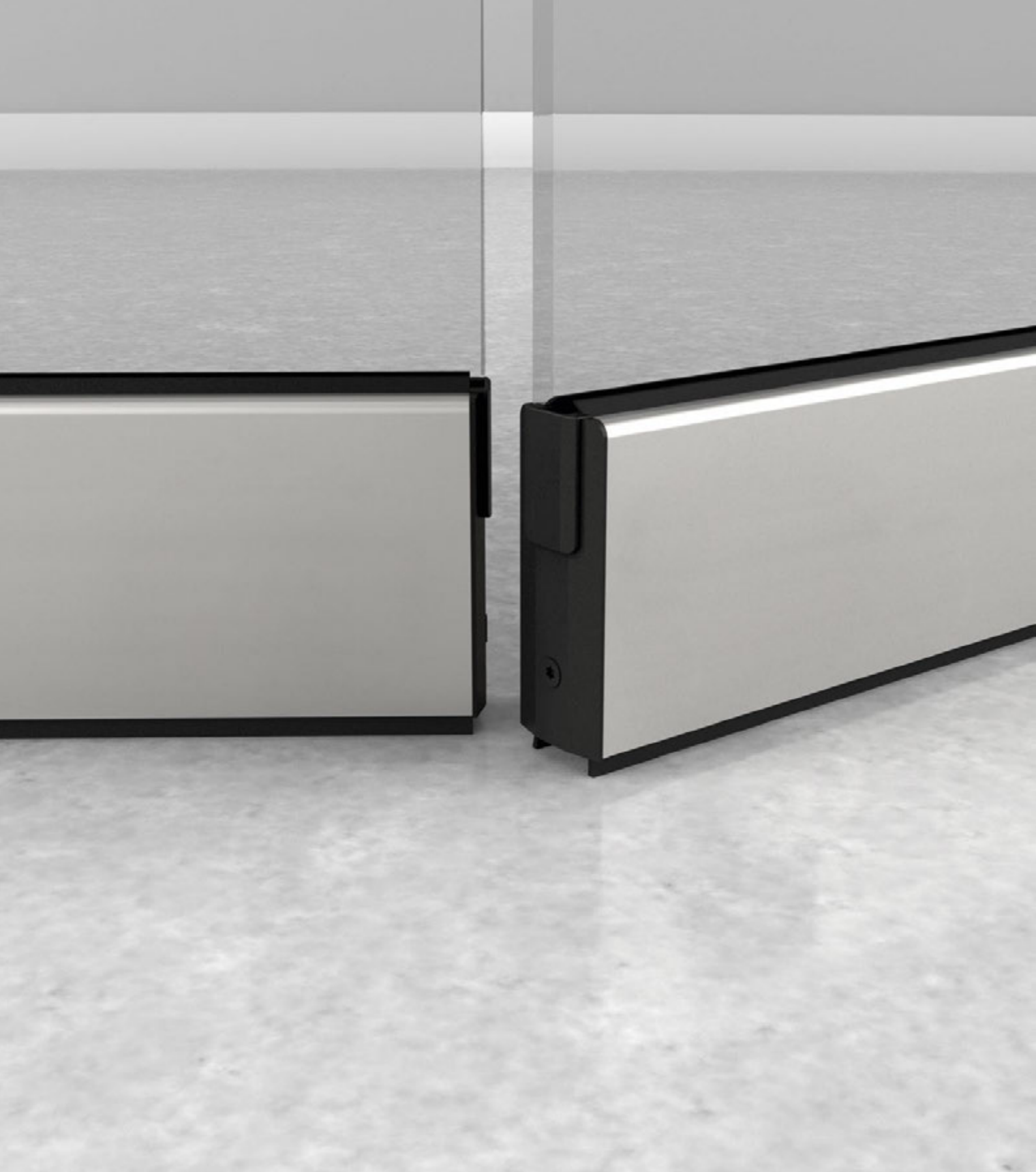
	Product description	DIN	Art. No.
	Bottom patch fittings	left	02.100 02.102 02.104 02.106 02.108
		right	02.101 02.103 02.105 02.107 02.109
Scale 1 : 2			
	Top patch fittings	left	02.110 02.112 02.114 02.116 02.118
		right	02.111 02.113 02.115 02.117 02.119
Scale 1 : 2			
	Overpanel patch fittings	left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

Space for your notes

Content

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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 500000 movement cycles and the bolt with 100000 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 1400 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

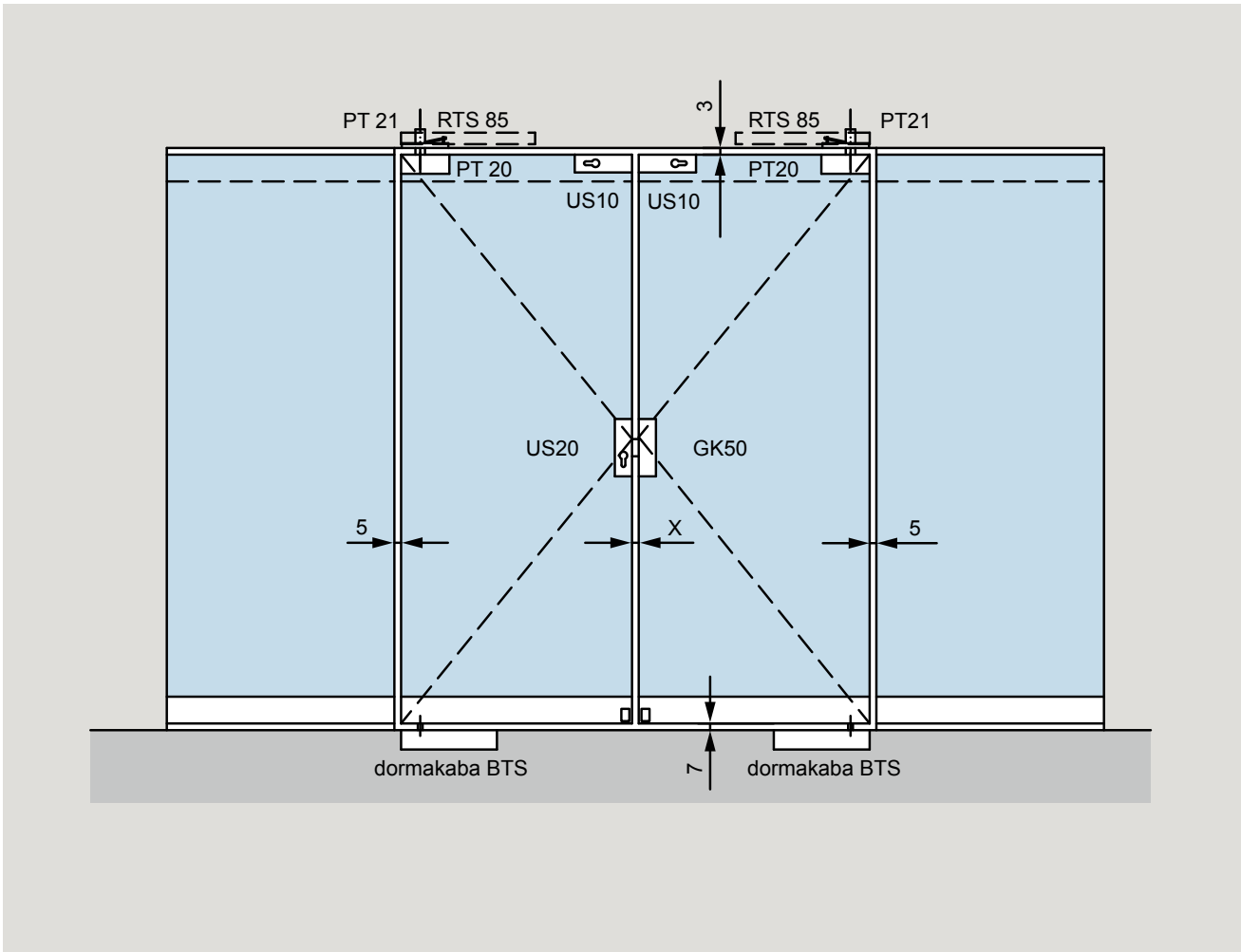
Variable central pivot point

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!

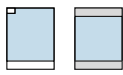
Glass size – height:		Door rail weight:		Gap required between pairs of doors:	
Rail height – 105 mm		Version	Weight	Offset hung doors and Centre hung doors:	
Use of rail(s)	total door height less	Aluminum	7 kg / m	Individual leaf width	X
bottom	80 mm	Satin stainless steel	8.5 kg / m	> 600 mm	5 mm
top	80 mm				
bottom + top	160.0 mm				
Please treat floor and ceiling clearances separately		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	Tolerance of glass thickness: +/- 0.5 mm	
				RTS = transom closer	

Note: For door rail designs with free glass edge, a glass thickness of max. 12.8 mm is possible.

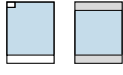
Technical data

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	
Door rails for centre hung doors, combined with...								
... Patch fittings UNIVERSAL	●	110	1200	3000	120	1200	3500	*For high frequented 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 ¹⁾								
MUNDUS Comfort	●	150	1200	3000	150*	1200*	3000*	
MUNDUS Premium	●	150	1200	3000	200 (170*)	1300 (1200*)	3800 (3500*)	
... Patch fittings EP UNIVERSAL pinch	●	100	1100	3000				
... Door rails standard	●	150	1200	3500	200*** (150*)	1400*** (1200*)	4000 (3500*)	
... Door rails clamp free	●	120	1200	3500				

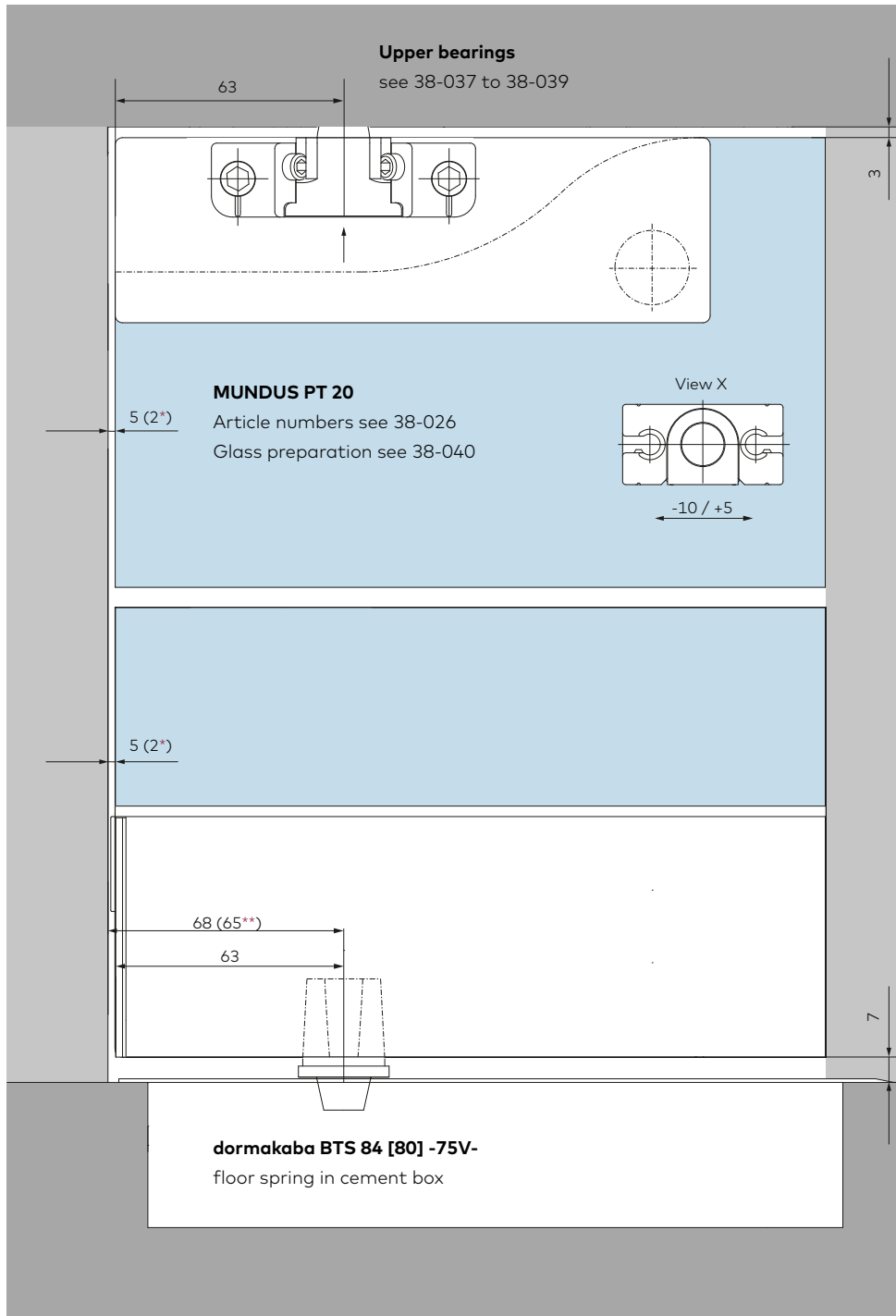
Panels with single-action door rails combined with ...

	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...					
... Patch fittings EA	●	100	1200	3000	34 mm door stap for toughened glass assemblies
... Door rails standard	●	100	1200	3500	
Door rails for offset hung doors in rebated frames (24 mm/26 mm rebate depth), combined with ...					
... Eckbeschlägen EA	●	90	1100	3000	40 mm/42 mm door stap for 24 mm/26 mm rebate depth
... Türschienen Standard	●	90	1100	3500	
Door rails for offset hung doors in rebated frame (27 mm – 40 mm rebate depth), combined with ...					
... Patch fittings EA	●	80	1000	3000	43 mm/58 mm door stap for 27 mm – 40 mm rebate depth
... Door rails standard	●	80	1000	3500	

Torque for fixing screws: Screws M 8 : 15 Nm

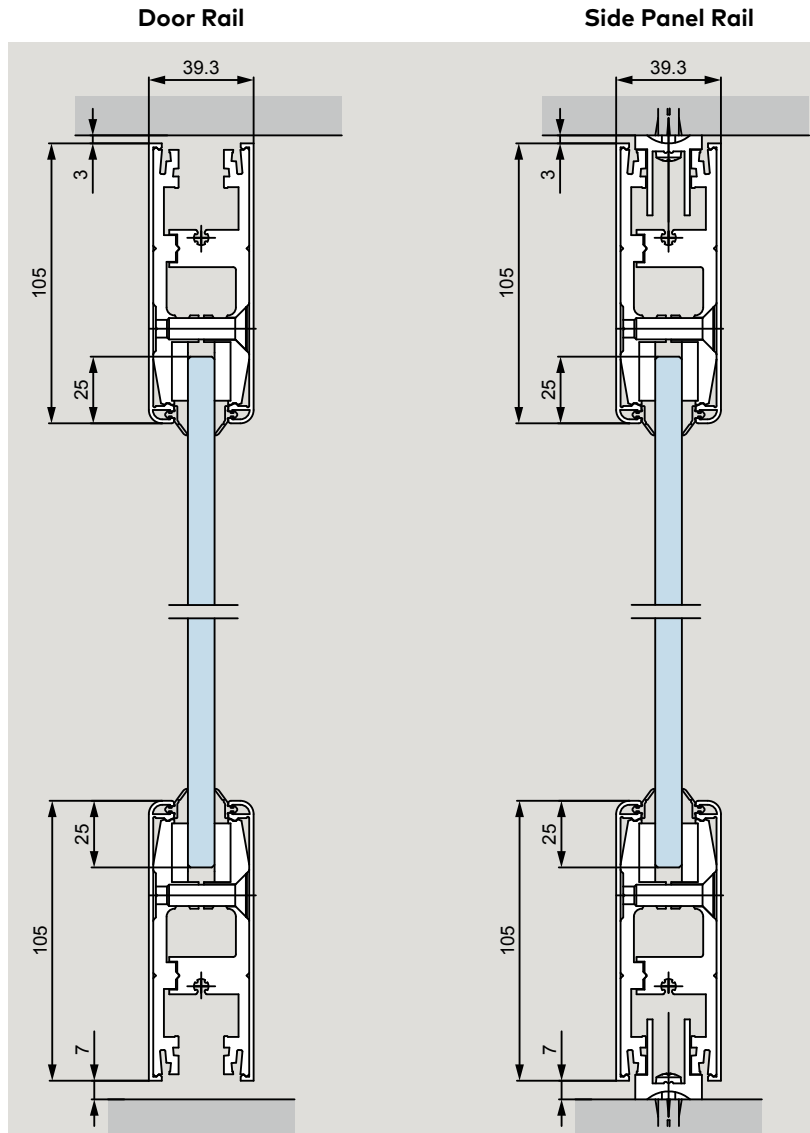
¹⁾ Doors weighing 150 kg or more or with a height of 3000 mm or more must be glued. For gluing instructions, see matrix for door dimensions, TB Fittings for toughend glass assemblies.

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



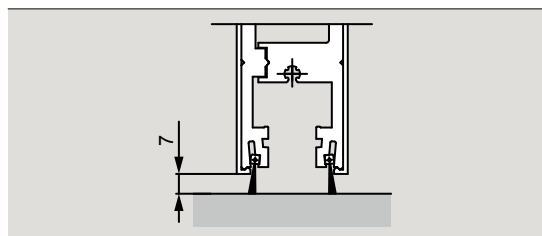
* without cap
** to wall

Rail cross sections



Product description

Art. No.



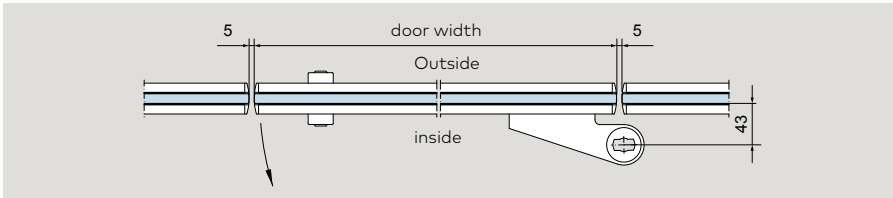
Double sealing brush
for door rails (also in the area of inserts, locks, etc.)
stock length 2,000 mm

40.072

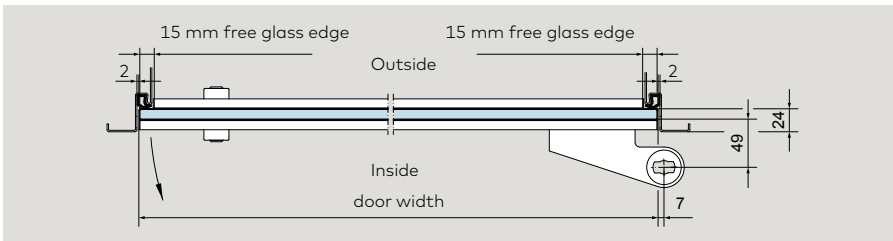
Construction details

Please always indicate when ordering:

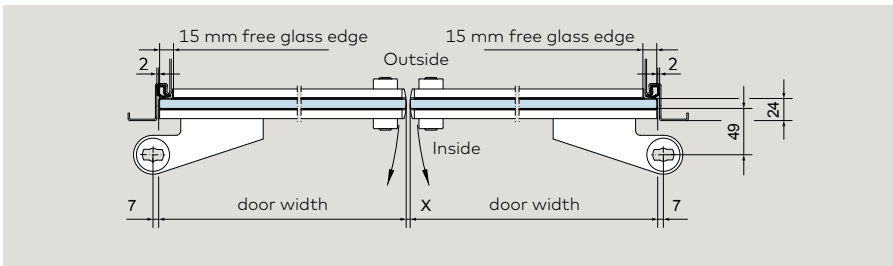
- DIN direction and opening direction
- Pivot point or rebate depth
- exact wing width
- Glass thickness and glass type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system



Offset hung door in toughened glass assembly

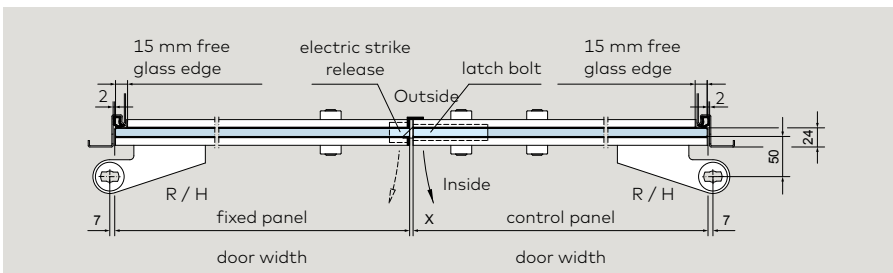


Offset hung door in rebated frame with 24 mm rebate depth



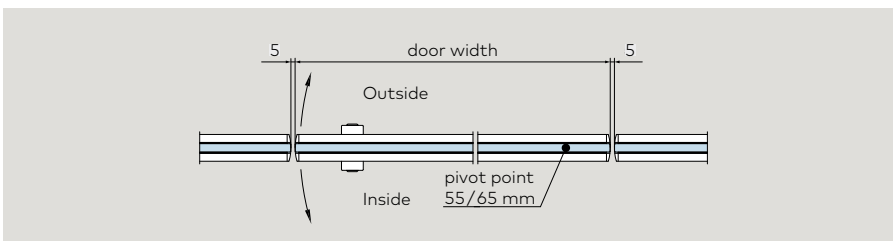
Pair of offset hung doors in rebated frame with 24 mm rebate depth

X = Gap, 5 mm

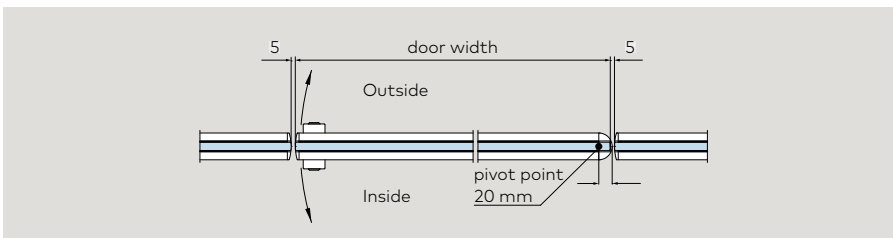


Pair of offset hung doors in rebated frame with 24 mm rebate depth (also available with inserts for centre hung doors), with electric strike release and latch bolt

X = Gap, 5 mm



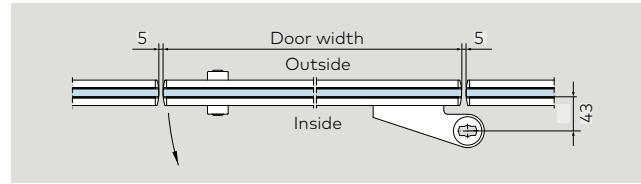
Centre hung doors with pivot point 55 / 65 mm und 20 mm

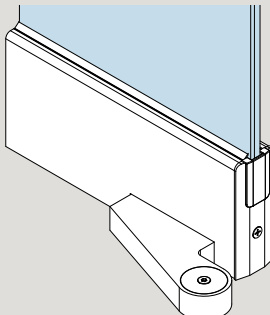
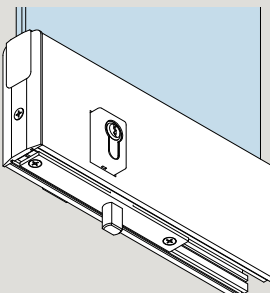
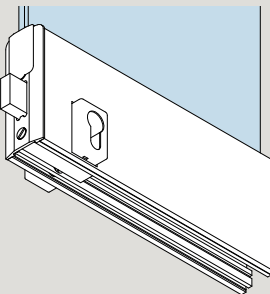
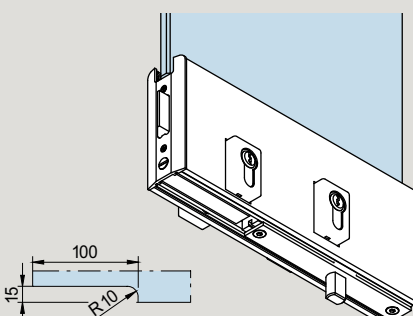


Door rails for offset hung doors in toughened glass assemblies without rebated frames

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

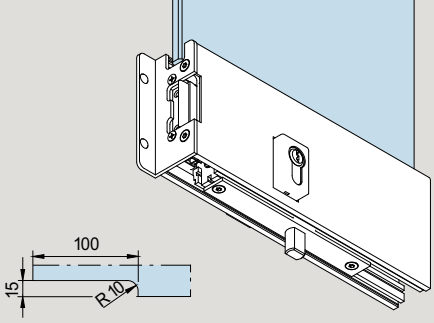
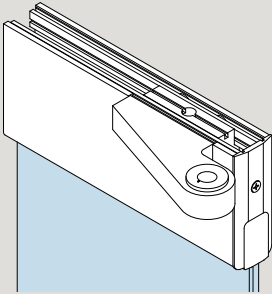
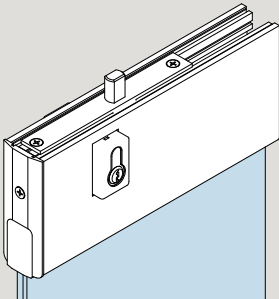
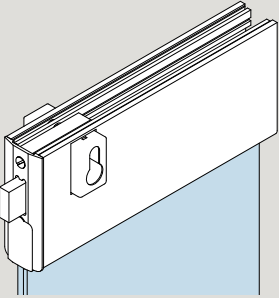


	Product description	Art. No.
	<p>Lower base rail</p>	<p>*40.731/40.733</p>
	<p>Additional module with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt</p>	<p>*40.751/40.753</p>
	<p>Additional module with side locking lock, prepared for Europrofile cylinder, double throw</p>	<p>*40.771/40.773</p>
	<p>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</p>	<p>*40.779/40.781</p>

*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

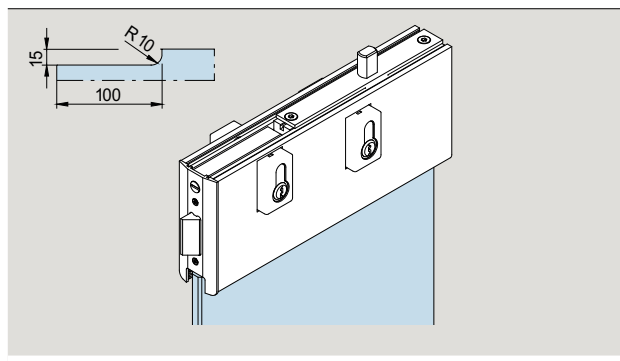
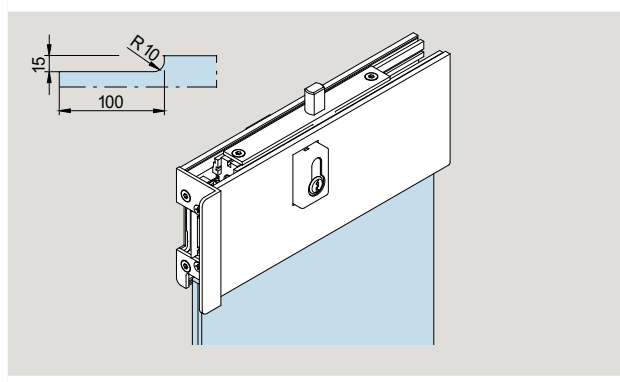
	Product description	Art. No.
	Additional module with downward closing bolt lock , PZ prepared, 1-turn with corrosion protected bolt and hardened safety roller pin and lateral E-opener (Standard: fail secure function, 6 to 12 V -/-)	*40.783/40.785 (for Art. No. 40.781/40.779)
	Upper base rail	*40.732/40.734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

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

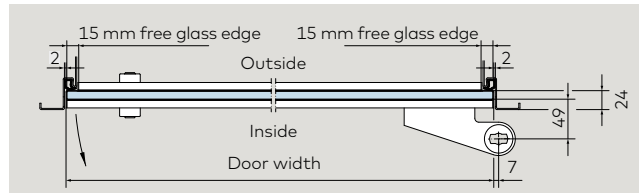
*Left / right hand (illustration shows right hand) are determined by view from hanging side.

**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

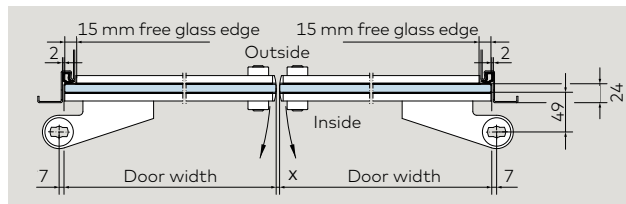
	Product description	Art. No.
	<p>Lower base rail</p>	<p>*40.735/40.737</p>
	<p>Additional module with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p>	<p>*40.755/40.757</p>
	<p>Upper base rail</p>	<p>*40.736/40.738</p>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

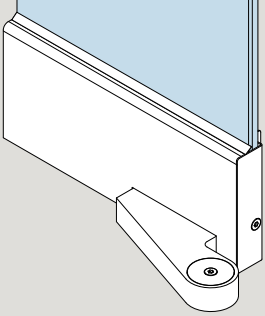
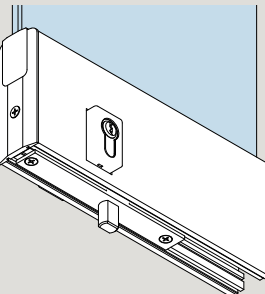
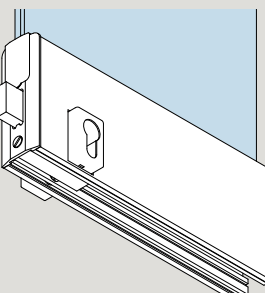
* Left / right hand (illustration shows right hand) are determined by view from hanging side.

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

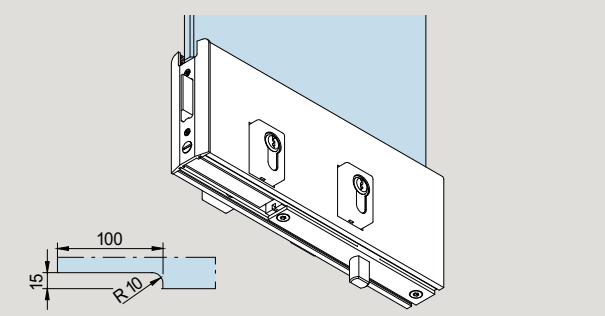
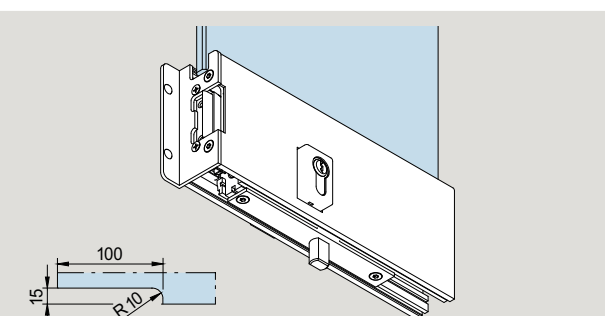


	Product description	Art. No.
	Lower base rail	*40.739/40.741
	Additional module with floor locking lock, prepared for Europrofile cylinder, single throw	*40.759/40.761
	Additional module with side locking lock, prepared for Europrofile cylinder, double throw	*40.775/40.777

* 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

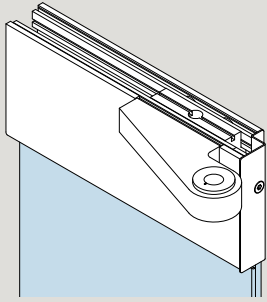
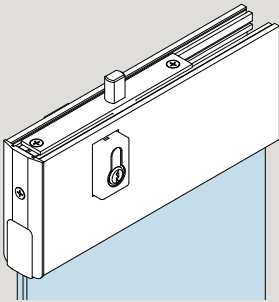
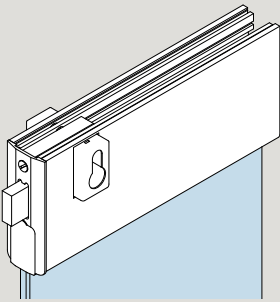
	Product description	Art. No.
	<p>Lower base rail with floor locking bolt lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin and latch lock at side for electric strike release</p>	<p>*40.743/40.745</p>
	<p>Additional module with floor locking bolt lock, prepared for Europrofile cylinder, 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 -/-)</p>	<p>*40.747/40.749</p>

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

Door rails for double offset hung doors in rebated frames

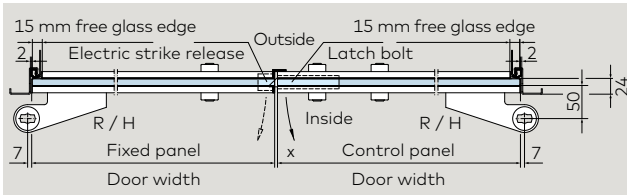
Please always indicate when ordering:

- 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

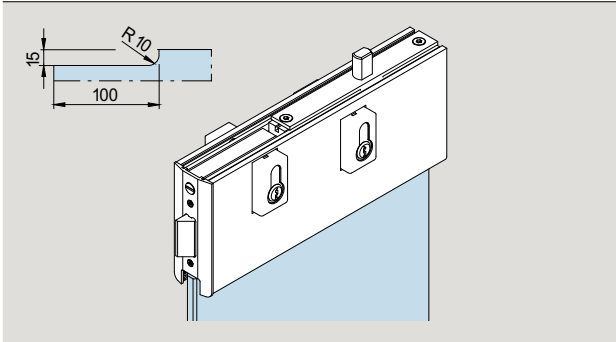
* Left / right hand (illustration shows right hand) are determined by view from hanging side.

Double door with electric opener and latch lock



Product description

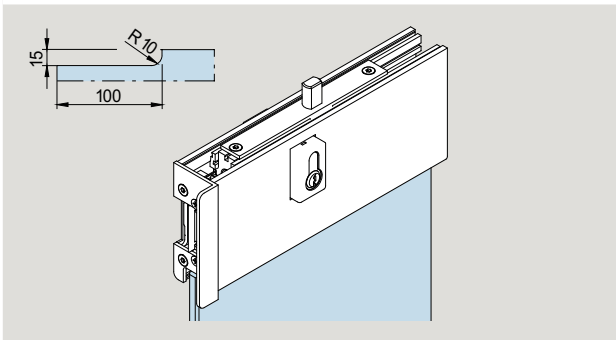
Art. No.



Upper base rail

***40.744/40.746**

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



Additional module with top locking bolt lock,

****40.748/40.750**

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 -/-)

(for Art. No. 04.182/04.180)

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

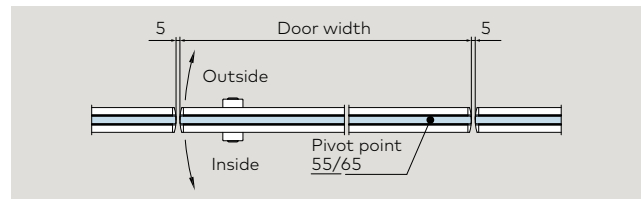
** Left / right hand (illustration shows right hand) are determined by view from hanging side.

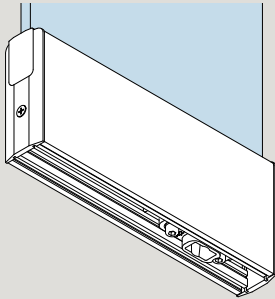
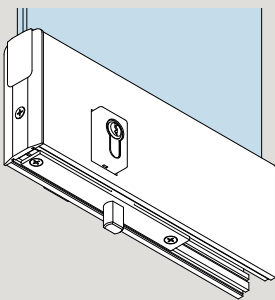
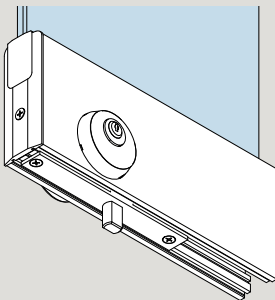
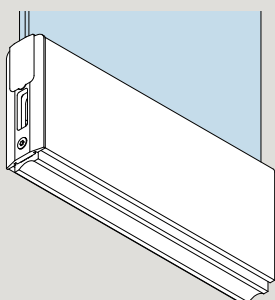
Door rails for double-action doors

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

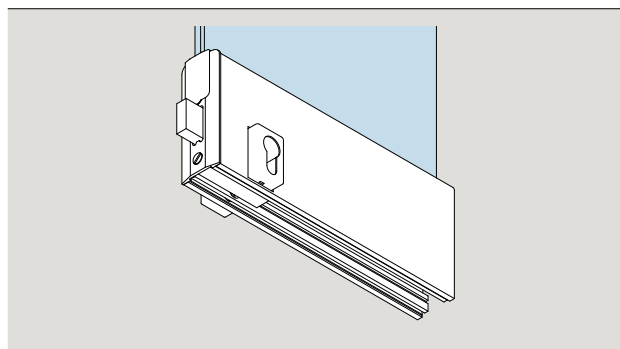
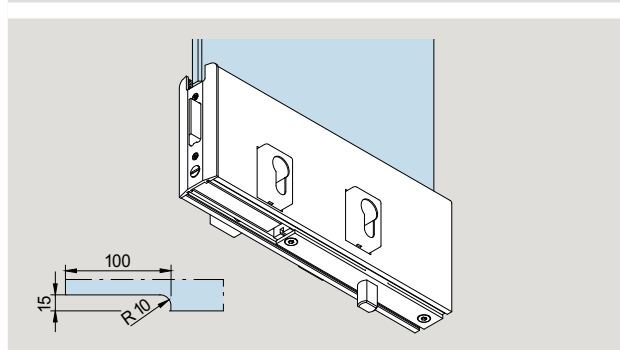
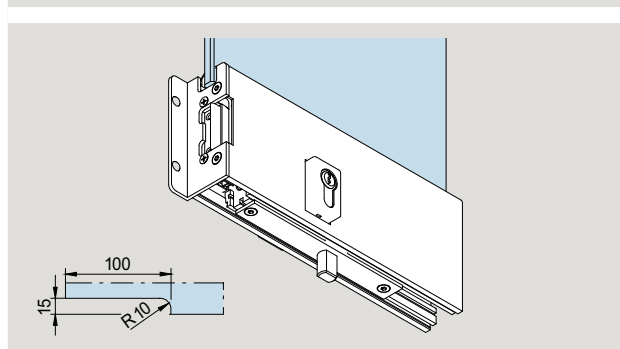


	Product description	Art. No.
	<p>Lower base rail with stainless steel insert to suit floor spring spindle or round pivot 14 mm Ø</p>	<p>*40.701/40.801</p>
	<p>Additional module with floor locking lock, prepared for Europrofile cylinder, single throw</p>	<p>*40.711/40.811</p>
	<p>Additional module with floor locking lock, prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p>	<p>*40.763/40.863</p>
	<p>Additional module with strike-box for side bolt locking, door width up to max. 1200 mm (> 1200 mm on request)</p>	<p>40.915</p>

* 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.
	Additional module with side locking lock, prepared for Europrofile cylinder, double throw	*40.721/40.821
	Lower base rail 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.	*40.791/40.793
	Additional module with electric strike release at side (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.	*40.796/40.798

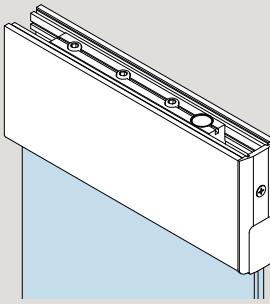
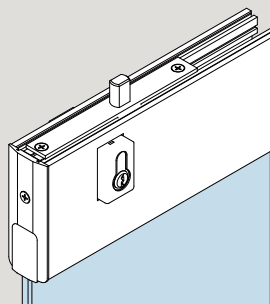
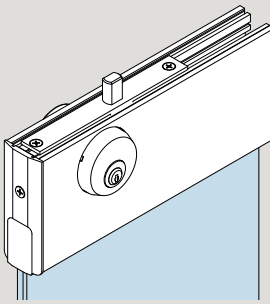
* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

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

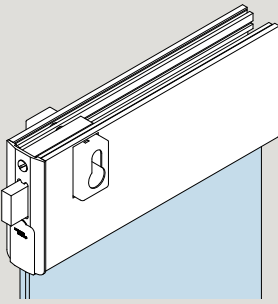
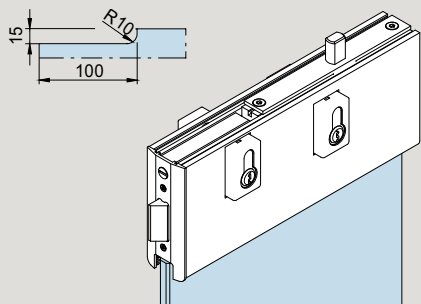
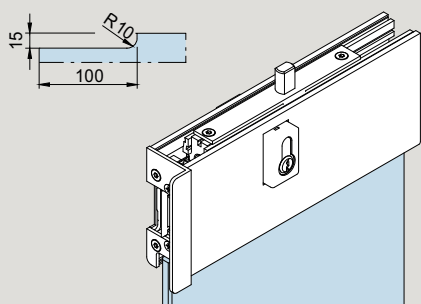
Pivot point dimension for combination door rail and MUNDUS fittings 58 / 68 mm

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

* 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.
	Upper base rail with side locking lock, prepared for Europrofile cylinder, double throw	*40.722/40.822
	Additional module with latch lock at side for electric strike release 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.	*40.792/40.794
	Additional module with electric strike release at side (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.	*40.797/40.799

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

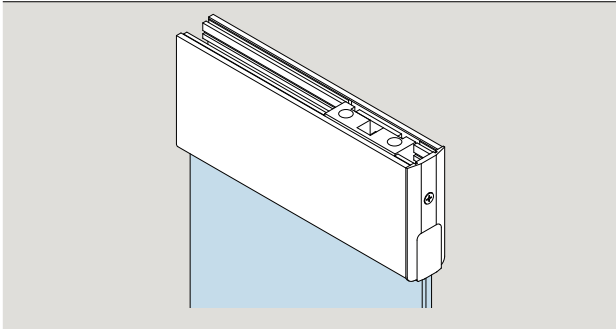
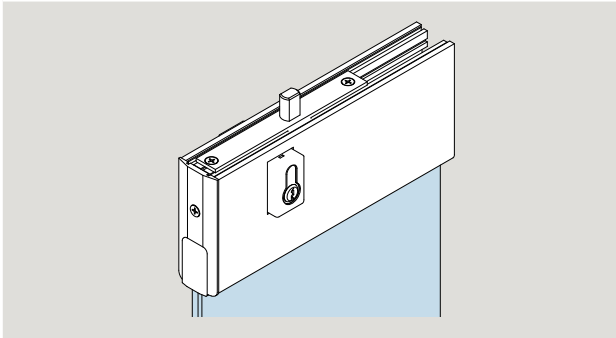
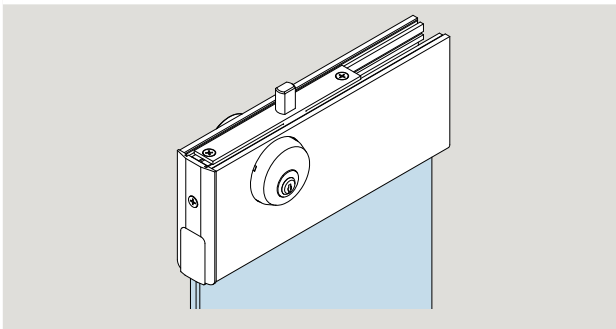
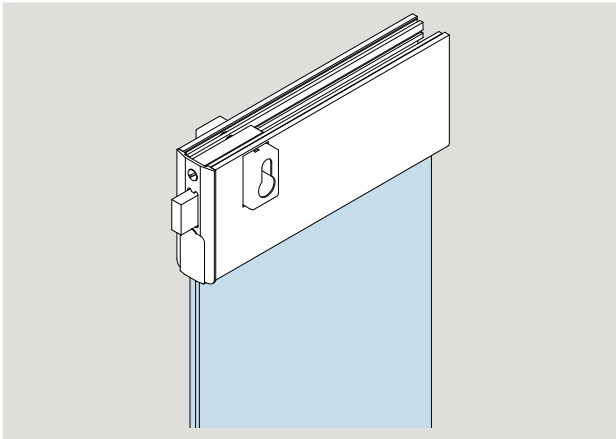
Door rails for double-action doors prepared for frame door closers RTS 85

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

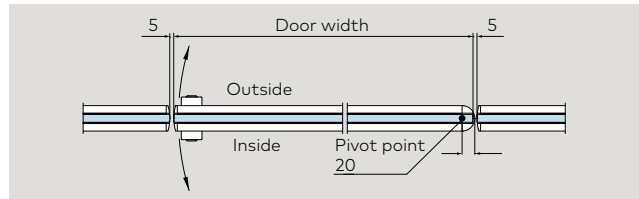
	Product description	Art. No.
	Upper base rail with insert for RTS transom closer	*40.706/40.806
	Additional module and top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin	*40.716/40.816
	Additional module with top locking lock prepared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

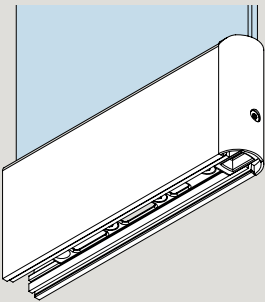
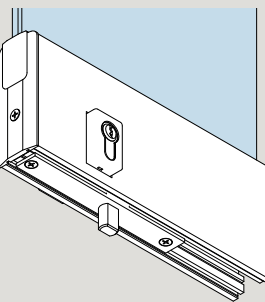
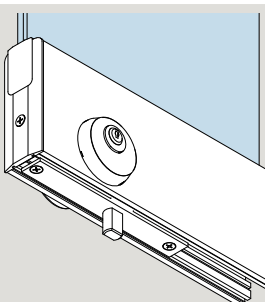
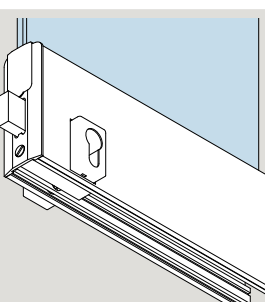
* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

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.
	<p>Lower base rail with floor spring spindle insert</p>	<p>*40.703/40.803</p>
	<p>Additional module with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pinn</p>	<p>*40.713/40.813</p>
	<p>Additional module with floor locking lock prepared for round cylinder, single throw (not illus-trated) with corrosion resistant bolt and hardened safety roll pin</p>	<p>*40.765/40.865</p>
	<p>Additional module with side locking lock, prepared for Europrofile cylinder, double throw</p>	<p>*40.723/40.823</p>

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

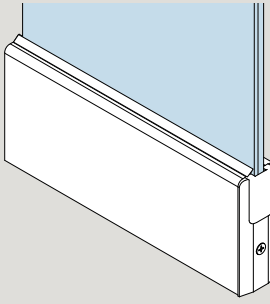
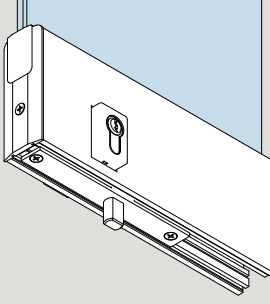
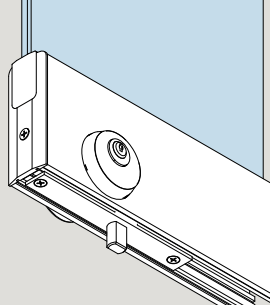
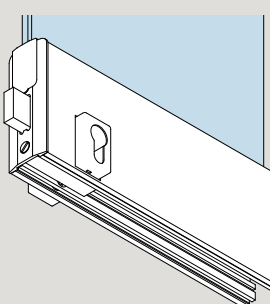
Door rails for double-action doors

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.
	Lower base rail prepared for floor bearing	*40.707/40.807
	Lower base rail with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin, prepared for floor bearing	*40.717/40.817
	Additional module with floor locking lock prepared for round cylinder , single throw with corrosion resistant bolt and hardened safety roll pin, prepared for floor bearing	*40.768/40.868
	Additional module with side locking lock , prepared for Europrofile cylinder , double throw, prepared for floor bearing	*40.717/40.827

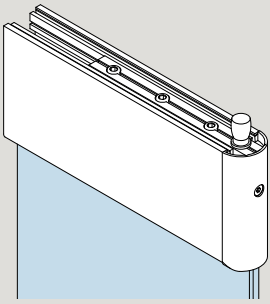
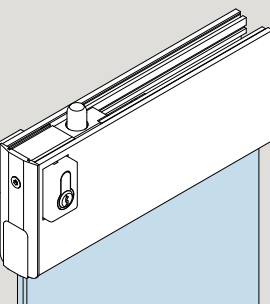
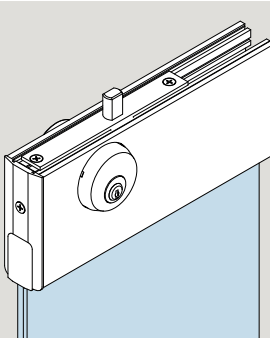
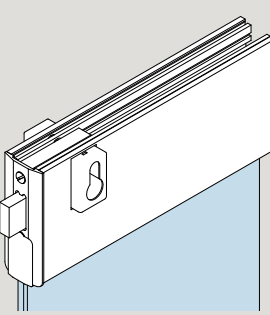
* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

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.
	<p>Upper base rail with 15 mm Ø pivot pin, A version without pivot-pin is also possible, please specify when ordering.</p>	<p>*40.704/40.804</p>
	<p>Additional module and top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p>	<p>*40.714/40.814</p>
	<p>Additional module with top locking lock prepared for round cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p>	<p>*40.766/40.866</p>
	<p>Additional module with side locking lock, prepared for Europrofile cylinder, double throw</p>	<p>*40.724/40.824</p>

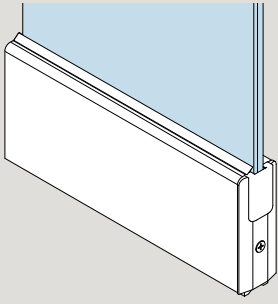
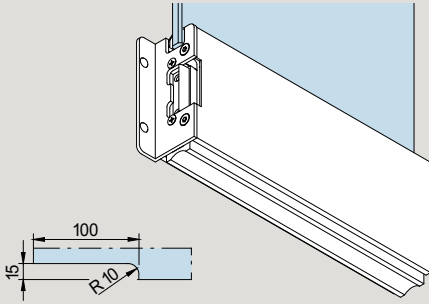
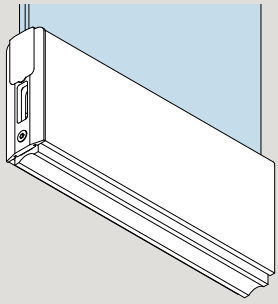
* Order of Art.No.: Left hand / right hand – determined by view from hanging side. (Illustration shows right hand)

Rails for side panel

Complete, for 10 mm glass thickness

Please always indicate when ordering:

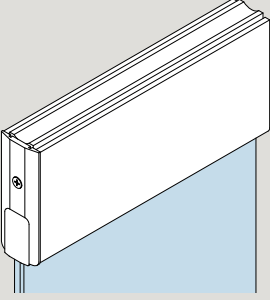
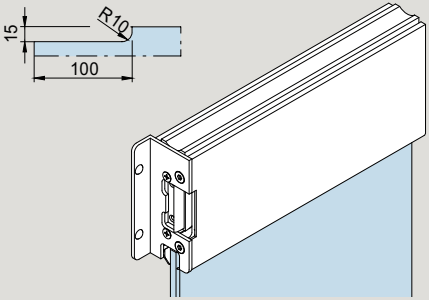
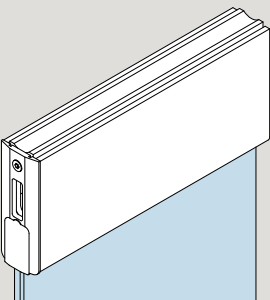
- DIN direction
- exact wing width
- Glass thickness and type (TSG, annealed glass or LSG made of TSG)
- Details of the type of locking system

	Product description	Art. No.
	<p>Lower base rail for side panel, up to approx. 6000 mm long with rail filler insert 7 mm</p>	<p>40.901</p>
	<p>Additional module with electric strike release (standard: fail secure function, 6 to 12 V -/-), door width up to max. 1200 mm (> 1200 mm on request)</p>	<p>*40.911/40.913</p>
	<p>Additional module with strike-box for side bolt locking, door width up to max. 1200 mm (> 1200 mm on request)</p>	<p>40.915</p>

* 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.
	Upper base rail for side panel, up to approx. 6000 mm long with rail filler insert 3 mm	40.902
	Additional module with electric strike release (standard: fail secure function, 6 to 12 V -/~)	*40.912/40.914
	Additional module with strike-box for side bolt locking	40.916

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

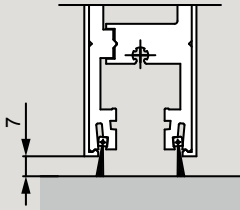
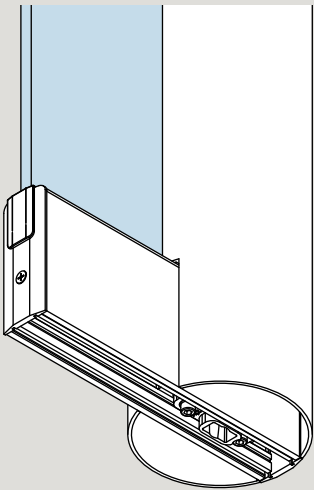
Top centre frame portion with top door rail ES

in combination with patch fittings see chapter EA

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

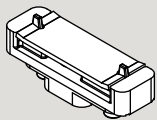
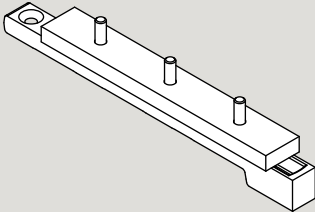
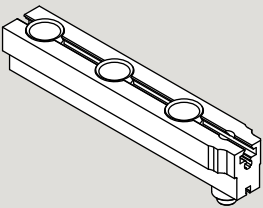
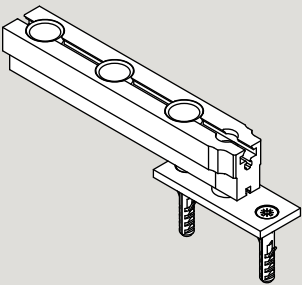
* Left / right hand (illustration shows right hand) are determined by view from hanging side.

Special accessories and special inserts for door rails

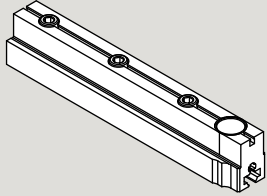
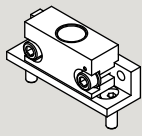
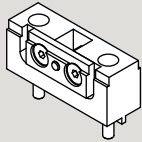
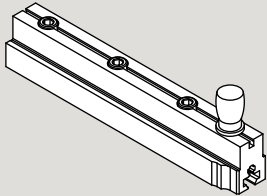
	Product description	Art. No.
	<p>Double sealing brush for door rails (also in the area of inserts, locks, etc.)</p> <p>stock length 2 m (= 1 coil)</p>	<p>40.072 Sealing brush 1 St = 2m</p>
	<p>Aluminum round profile for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings* or door rails 106 mm.</p> <p>Please indicate:</p> <ul style="list-style-type: none"> • Panel height (max. 3000 mm, higher dim. on request) • Required preparation of the profile for top and bottom fittings <p>fixed length</p> <p>stock length 6000 mm (not prepared) stock length 3000 mm (not prepared)</p> <p>Weight in kg/m: Aluminum 4.744</p>	<p>03.380</p> <p>03.381 03.382</p>

Special accessories and special inserts for door rails

Bottom inserts

	Produktbeschreibung	Art.-Nr.
	<p>Bottom insert ES 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 weigh 150 kg, max. door widthe 1300 mm</p>	<p>40.071</p>
	<p>lower steel door lever ES 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"> • normal frequented doors, max. door weight 200 kg, max. door width 1400 mm • high frequented doors, max. door weight 150 kg, max. door width 1200 mm <p>Pivot point either 20/55/65 mm (please specify with order)</p>	<p>40.567</p>
	<p>Frame bottom centre ES, aluminum, to suit floor bearings 01.106 and 01.107, 20/55/65 mm pivot point, max. door weight 80 kg</p>	<p>40.565</p>
	<p>Screw-on floor bearing for damp environment, without floor recess, with inserts for door rails, max. 110 kg, for the standard pivot points 20, 55, 65 mm usable (infinitely variable)</p>	<p>40.566</p>

Upper insert

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

Content

TP/TA 76.5

134	General information
135	Type illustrations
138	Components
204	Accessories
226	Safety-related information



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 500000 latch and 100000 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 in 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

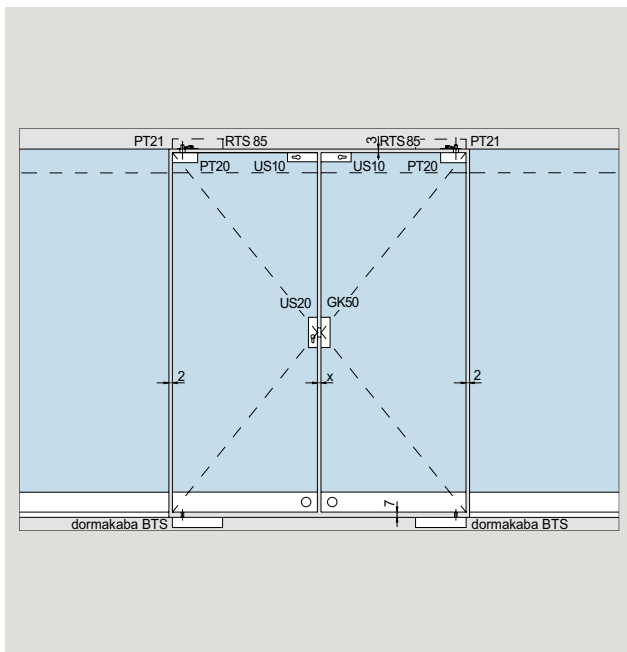
All standard articles as per price list are available ex-stock (factory). Specials will be prepared promptly.

Finishes

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

*Extract from DIN 18251, class 3: type-test with 50000 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 1000 mm	4 mm
1000–600 mm	6 mm
600–400 mm	8 mm

Centre hung doors:

X = 4 mm

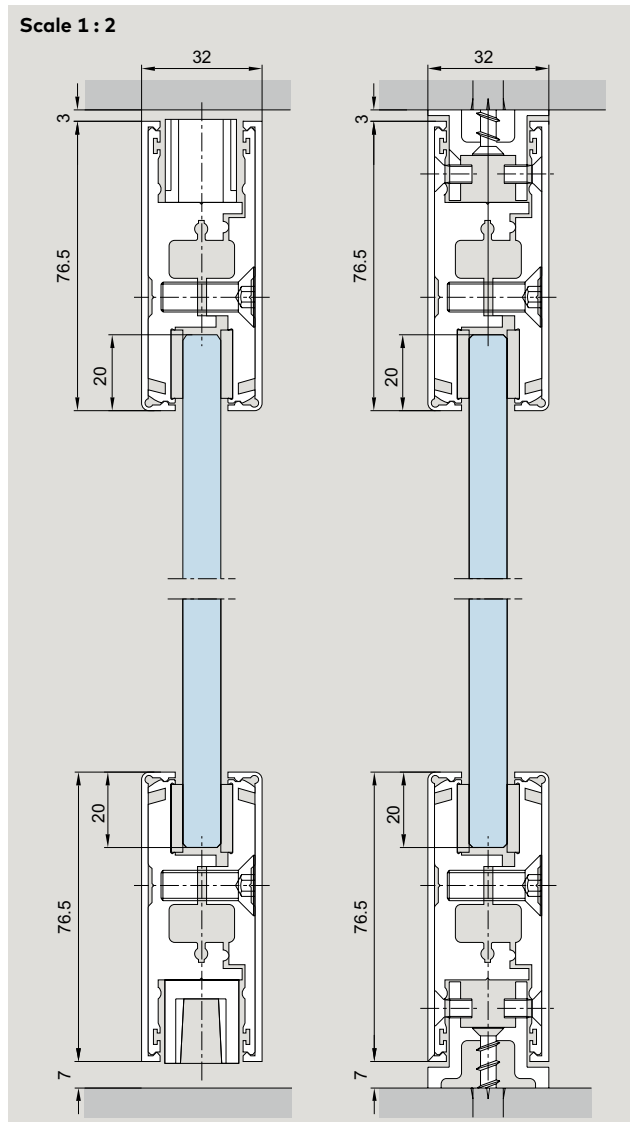
RTS = transom closer

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 frequented doors we generally recommend to use the bottom strap in forged steel with reduced max. measurements.
... Patch fittings UNIVERSAL	●	110	1100	3000	120	1100	3000	
... Door rails standard	●	120	1100	3000	120*	1100*	3000*	
Door rails for offset hung doors in toughened glass assemblies, combined with...								34 mm door stap for toughened glass assemblies
... Patch fittings EA	●	100	1100	3000				
... Door rails standard	●	100	1100	3000				
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	1100	3000				
... Door rails standard	●	90	1100	3000				
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	1000	3000				
... Door rails standard	●	80	1000	3000				

Torque for fixing screws: Screws M 8 : 20 Nm

Rail cross sections

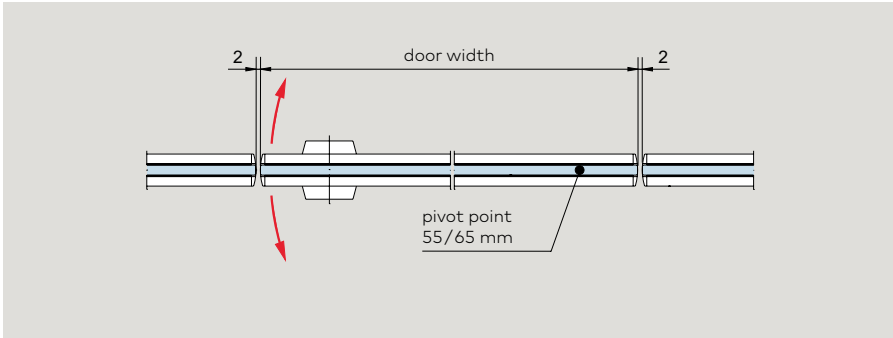


Door rails,
76.5 mm high

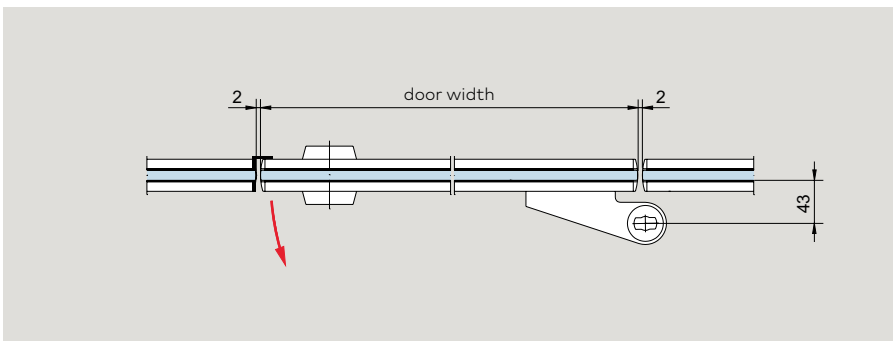
Side panel rails,
76.5 mm high

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

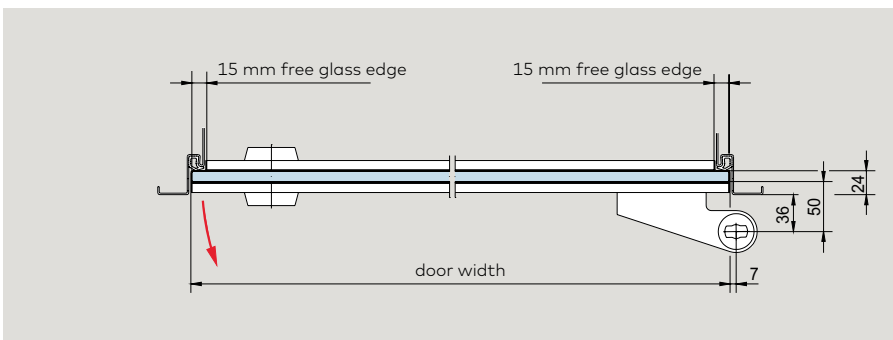
Construction details



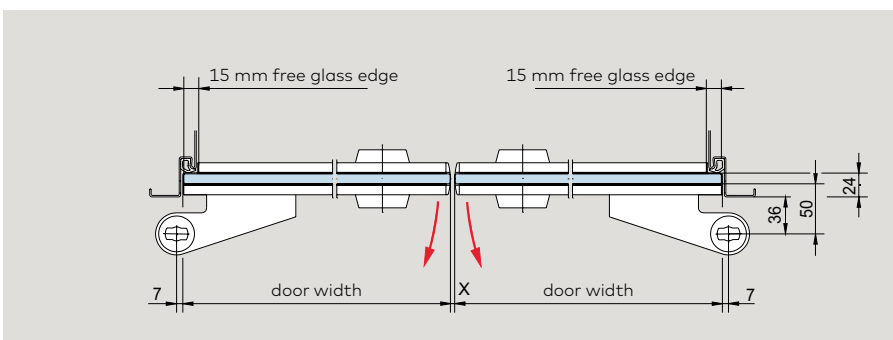
Centre hung doors



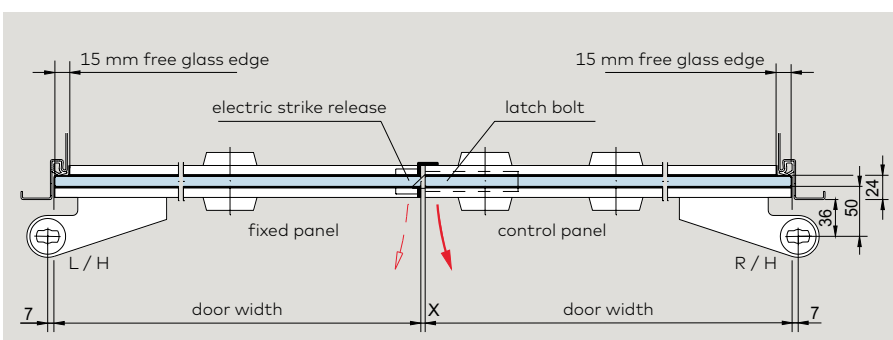
Offset hung door in toughened glass assembly



Offset hung door in rebated frame with 24 mm rebate depth



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

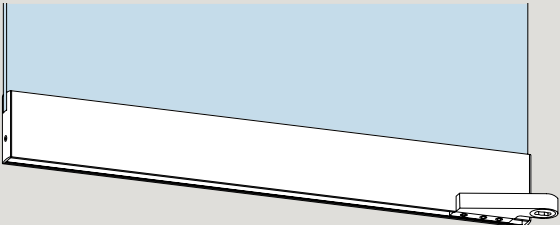
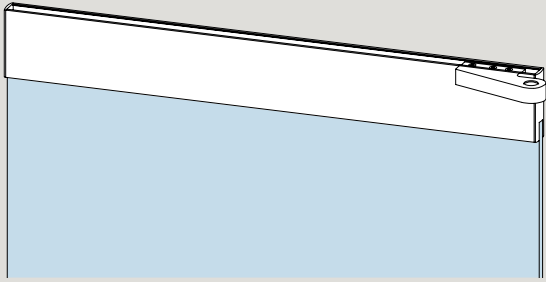
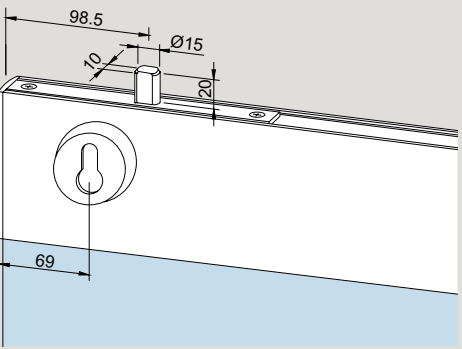


Pair of offset hung doors in rebated frame with 24 mm rebate depth (also available with inserts for centre hung doors), with electric strike release and latch bolt

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.
	<p>Bottom rail</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.257 Stainless steel 5.555</p>	<p>*04.031/04.033</p>
	<p>*Left / right hand (illustration shows right hand) are determined by view from hanging side.</p> <p>Top rail</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.187 Stainless steel 5.522</p>	<p>*04.032/04.034</p>
	<p>...with top 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 4.522 Stainless steel 5.972</p>	<p>*04.052/04.054</p> <p>*Left / right hand (illustration shows right hand) are determined by view from hanging side.</p>

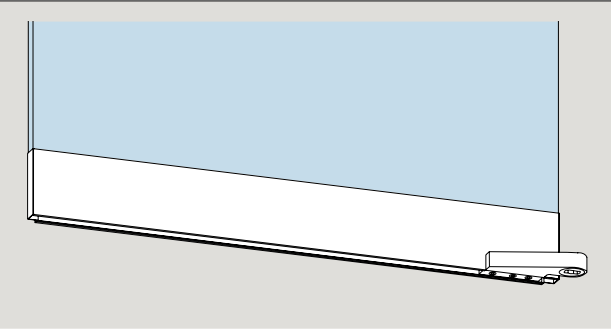
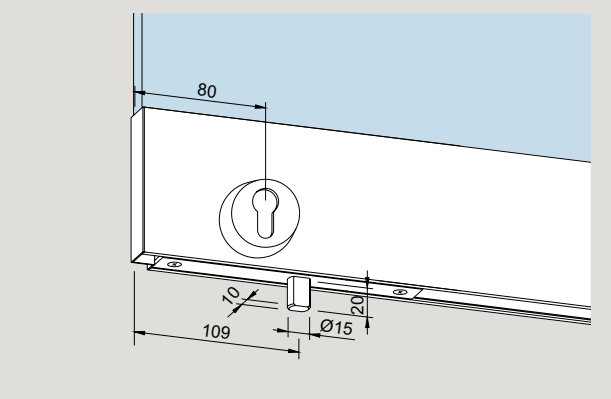
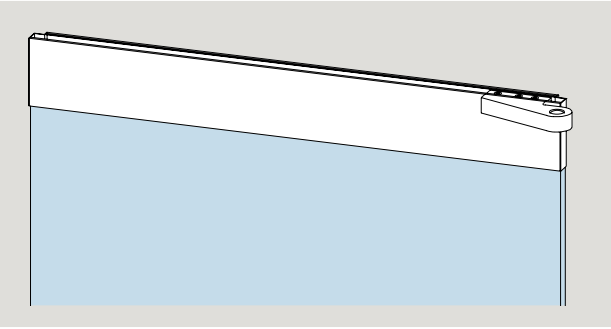
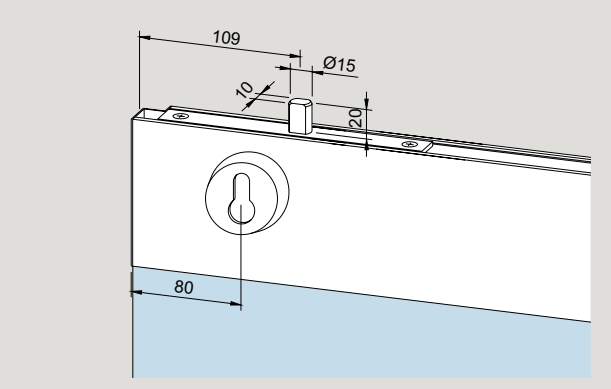
Door rails for offset hung doors in rebated frames

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.

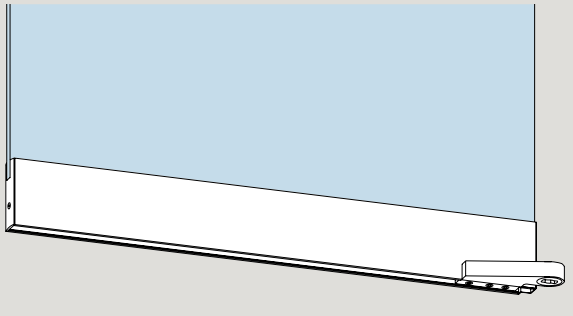
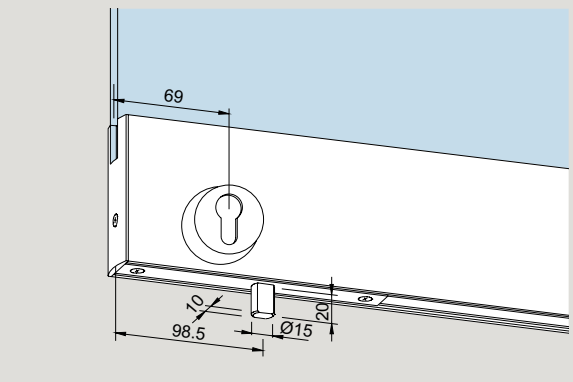
	Product description	Art. No.
	Bottom rail 76.5 mm: Weight in kg/m: Aluminum 4.181 Stainless steel 5.407	*04.035/04.037
	...with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin 76.5 mm: Weight in kg/m: Aluminum 4.516 Stainless steel 5.857	*04.055/04.057
	Top rail 76.5 mm: Weight in kg/m: Aluminum 4.111 Stainless steel 5.374	*04.036/04.038
	...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	*04.056/04.058

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

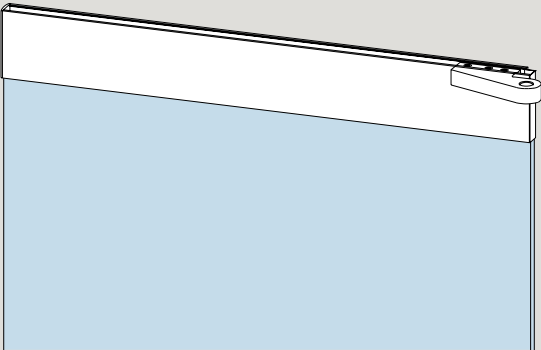
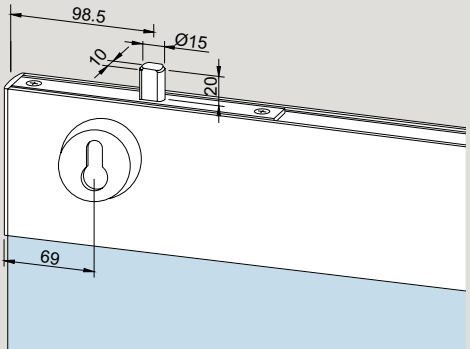
Door rails for double offset hung doors in rebated frames

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.
	<p>Bottom rail</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.219 Stainless steel 5.482</p>	<p>*04.039/04.041</p>
	<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 4.554 Stainless steel 5.932</p>	<p>*04.059/04.061</p>

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

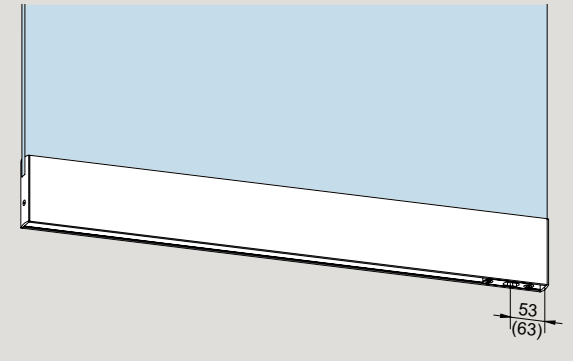
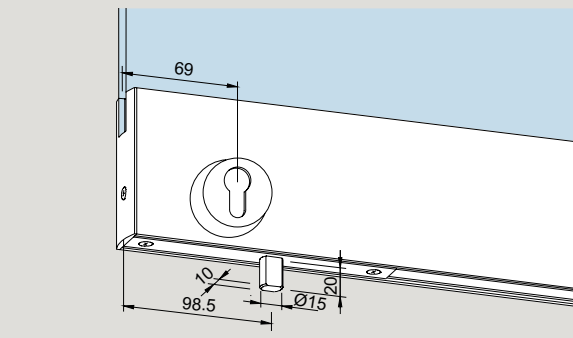
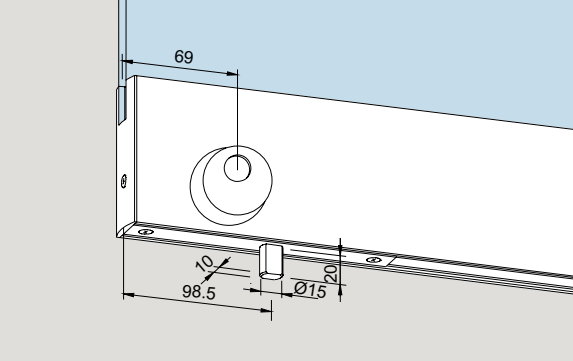
	Product description	Art. No.
	<p>Top rail</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.149 Stainless steel 5.449</p>	<p>*04.040/04.042</p>
	<p>...with top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.484 Stainless steel 5.899</p>	<p>*04.060/04.062</p>

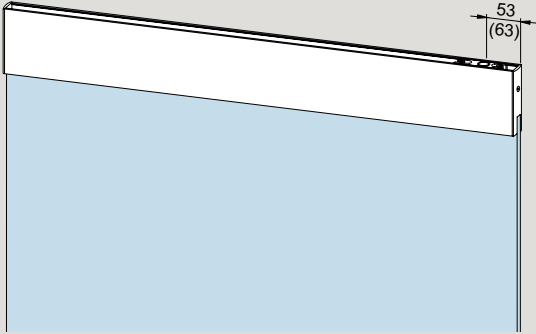
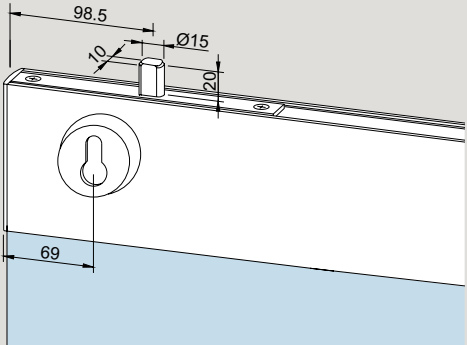
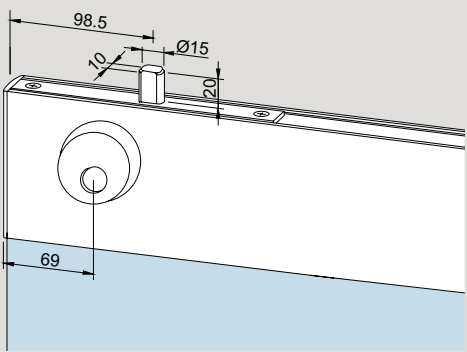
*Left / right hand (illustration shows right hand) are determined by view from hanging side.

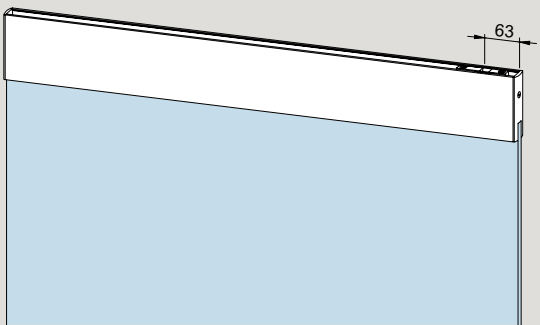
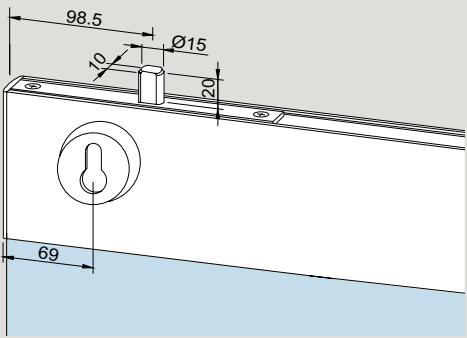
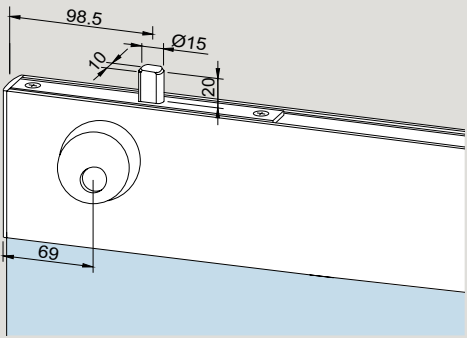
Door rails for double-action doors

Pivot point 55/65 mm

Complete, for 10 mm glass thickness

	Product description	Art. No.
	<p>Bottom rail 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>	<p>04.001</p>
	<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>	<p>04.011</p>
	<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>	<p>04.063</p>

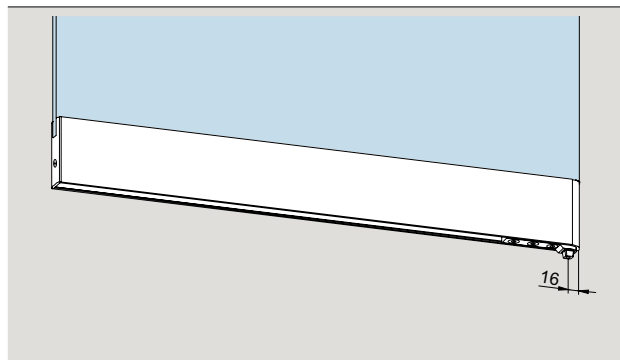
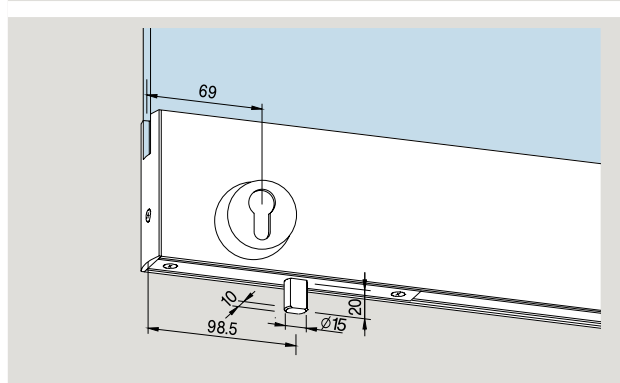
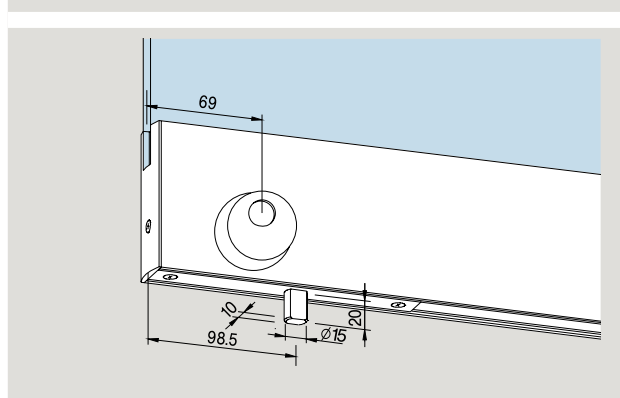
	Product description	Art. No.
	<p>Top rail with insert to take 15 mm Ø pivot pin</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 3.877 Stainless steel 4.681</p>	<p>04.002</p>
	<p>...and top locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety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

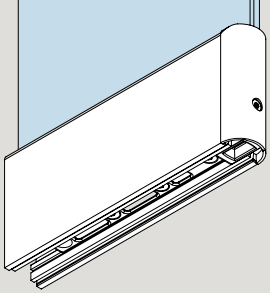
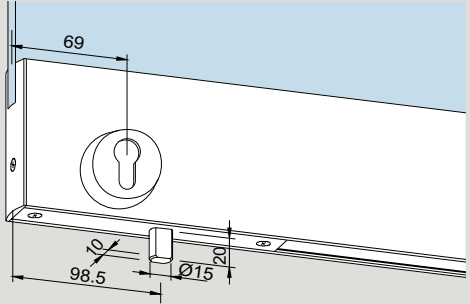
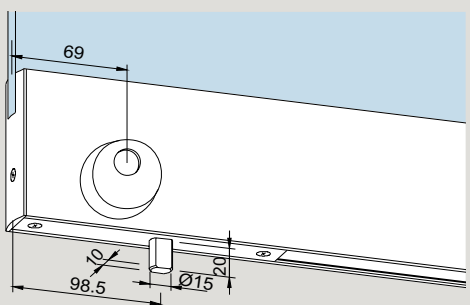
	Product description	Glass thickness	Art. No.
	<p>Top rail with insert for RTS transom closer</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.043 Stainless steel 4.847</p>		04.006
	<p>...and top locking lock, prepared for Euro-profile cylinder, single throw with corrosion resistant bolt and hardened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

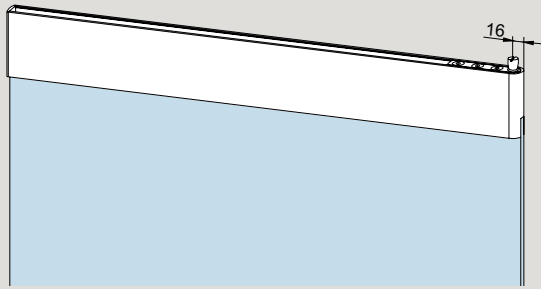
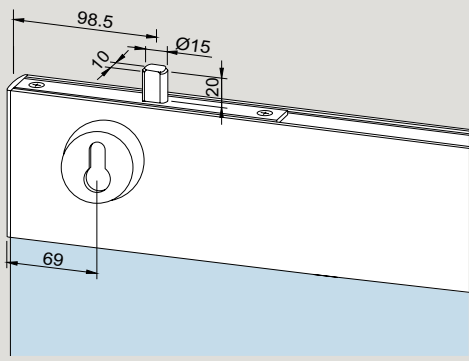
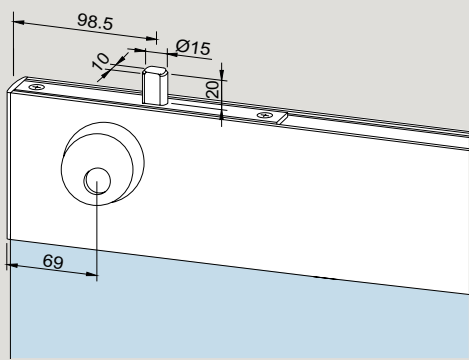
Door rails for double-action doors

Pivot point 18 mm

Complete, for 10 mm glass thickness

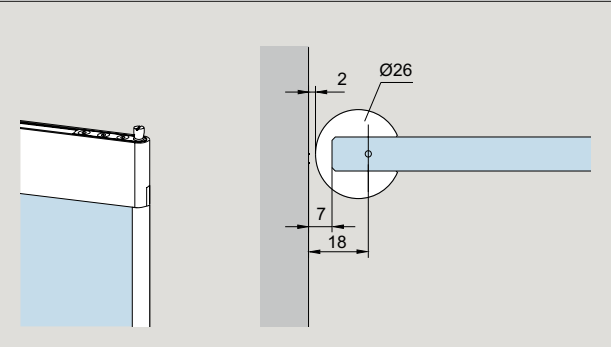
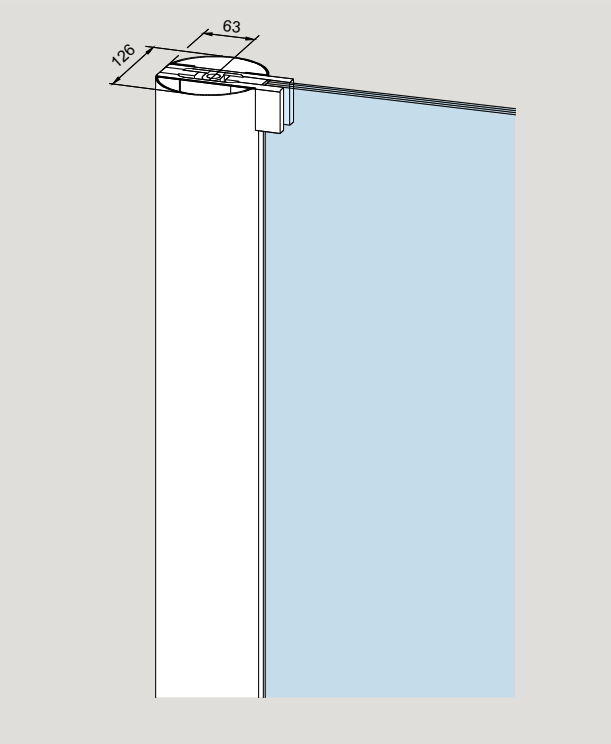
	Product description	Art. No.
	<p>Bottom rail with floor spring spindle insert</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 4.126 Stainless steel 4.824</p>	<p>04.003</p>
	<p>...with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety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

	Product description	Art. No.				
	<p>...prepared for floor bearing</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table border="0"> <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	<p>04.007</p>
Aluminum	3.898					
Stainless steel	4.606					
	<p>Bottom rail</p> <p>with floor locking lock, prepared for Europrofile cylinder, single throw with corrosion resistant bolt and hardened safety roll pin, prepared for floor bearing</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table border="0"> <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	<p>04.017</p>
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, prepared for floor bearing</p> <p>76.5 mm:</p> <p>Weight in kg/m:</p> <table border="0"> <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	<p>04.068</p>
Aluminum	4.243					
Stainless steel	5.056					

	Product description	Art. No.
	<p>Top rail with 15 mm Ø pivot pin</p> <p>76.5 mm:</p> <p>Weight in kg/m: Aluminum 3.908 Stainless steel 4.606</p>	<p>04.004</p>
	<p>...and top 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 4.243 Stainless steel 5.056</p>	<p>04.014</p>
	<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: Aluminum 4.243 Stainless steel 5.056</p>	<p>04.066</p>

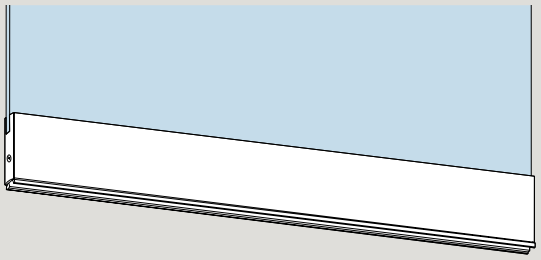
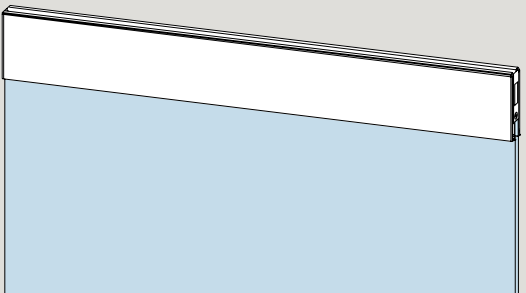
Radiused edging strip

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.
	Radiused edging strip Please indicate door height and type of fitting with order. up to 4500 mm length fixed length: 2250 mm	10 10	01.231 01.230
	Notice: When radiused edging strip is used the following glass measurement is valid = door rail width – 5 mm. TSG only.		
	Aluminum round profile for pinch free doors with 65 mm pivot point, consisting of 2 halves, prepared for UNIVERSAL fittings or door rails (76.5 mm). Please indicate: <ul style="list-style-type: none"> • Panel height (max. 2500 mm, higher dimension on request) • Required preparation of the profile for top and bottom fittings 		03.380
	Aluminum round profile, as above, stock length 6000 mm (unprepared)		03.381
	Aluminum round profile, as above, stock length 3000 mm (unprepared)		03.382
	Aluminum round profile, as above, stock length 2800 mm (unprepared)	Weight in kg/m: Aluminum 4.744	

Rails for side panel

complete, for 10 mm glass thickness

	Product description	Art. No.
	<p>Bottom rail for side panel, up to approx. 6000 mm long with rail filler insert 7 mm</p> <p>100 mm: Weight in kg/m: Aluminum 5.604 Stainless steel 6.494</p> <p>76.5 mm: Weight in kg/m: Aluminum 4.504 Stainless steel 5.273</p>	<p>04.201</p>
	<p>Top rail for side panel, up to approx. 6000 mm long with rail filler insert 3 mm</p> <p>100 mm: Weight in kg/m: Aluminum 5.441 Stainless steel 6.331</p> <p>76.5 mm: Weight in kg/m: Aluminum 4.341 Stainless steel 5.110</p>	<p>04.202</p>

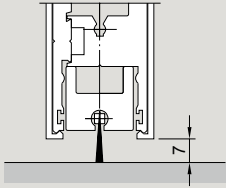
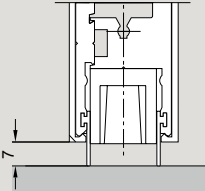
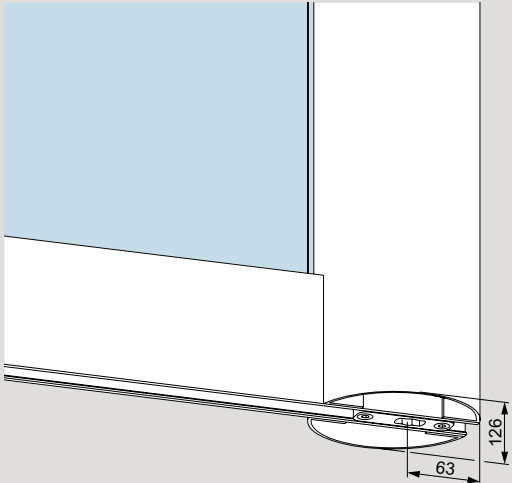
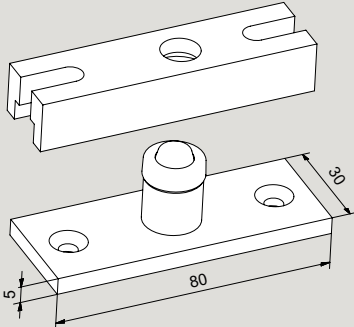
Top centre frame portion

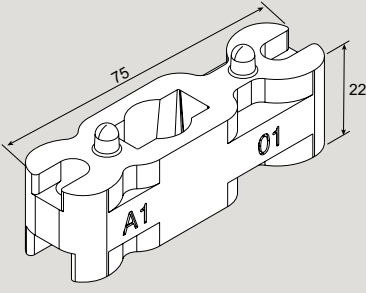
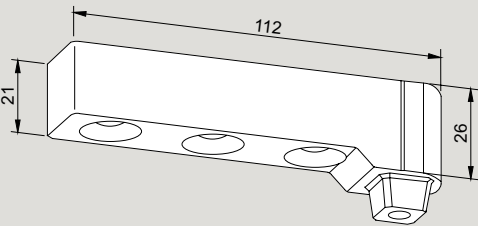
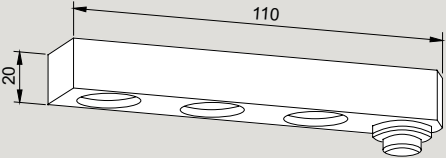
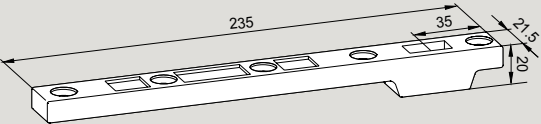
with patch fittings see chapter EA

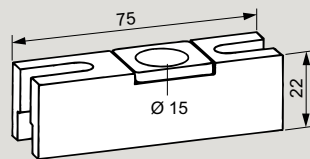
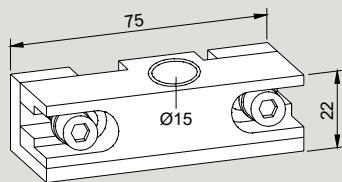
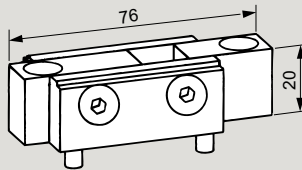
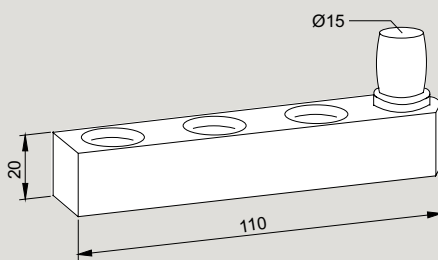
	Product description	Art. No.
	<p>Frame top centre with fixing block</p> <p>Weight in kg/m: Aluminum 0.471</p>	<p>02.150</p>
	<p>Frame top centre with angle bracket</p> <p>Weight in kg/m: Aluminum 0.453</p>	<p>02.151</p>
	<p>Frame top centre with special wedge screw fixings</p> <p>Weight in kg/m: Aluminum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

* 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>Aluminum profile with brush seal to prevent draughts and energy loss (not in the area of inserts, locks, etc.), connected with door rail at manufacturer</p> <p>Weight in kg/m: 0.753</p>	<p>04.600</p>
	<p>Rubber sealing for door rails (also in the area of inserts, locks, etc.)</p> <p>fixed length stock length 200 m (= 1 coil)</p> <p>Weight in kg/m: 0.099</p>	<p>04.607 04.608</p>
	<p>Aluminum round profile 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:</p> <ul style="list-style-type: none"> • Panel height (max. 3000 mm, higher dim. on request) • Required preparation of the profile for top and bottom fittings <p>fixed length</p> <p>Weight in kg/m: Aluminum 4.744</p> <p>stock length 6000 mm (not prepared) stock length 3000 mm (not prepared)</p>	<p>03.380</p> <p>03.381 03.382</p>
	<p>Screw-on floor bearing for damp environment, without floor recess, with inserts for door rails, max. 80 kg</p> <p>Weight in kg/m: 0.193</p>	<p>01.136</p>

	Product description	Art. No.
	<p>Bottom insert 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>	<p>04.604</p>
	<p>Bottom strap, 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>	<p>804.167.001.55</p>
	<p>Bottom strap, 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>	<p>804.060.002.50</p>
	<p>Bottom strap 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"> • normal frequented doors, max. door weight 150 kg, max. door width 1400 mm • high frequented doors, max. door weight 120 kg, max. door width 1200 mm <p>Pivot point either 55 or 65 mm (please specify with order).</p> <p>Weight in kg/m: 0.385</p>	<p>04.605</p>

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

Content

MANET Pivoting door system Accessories and connection systems

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

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

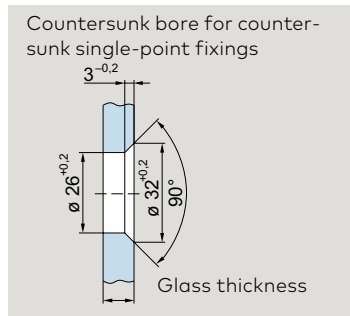
The aesthetic elegance of the MANET concept is also available in the form of standardized sets for simple, fast planning of the more popular system types.

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 2500 mm
 max. door panel width 1200 mm
 max. door panel weight 80 kg

Pivoting fitting short type with intermediate tube,
 max. door panel height 2500 mm
 max. door panel width 1200 mm
 max. door panel weight 80 kg



Pivoting doors set 1

Construction 1 (1 set) **Construction 2 (1 set)** **Construction 3 (1 set)** **Construction 4 (1 set)**

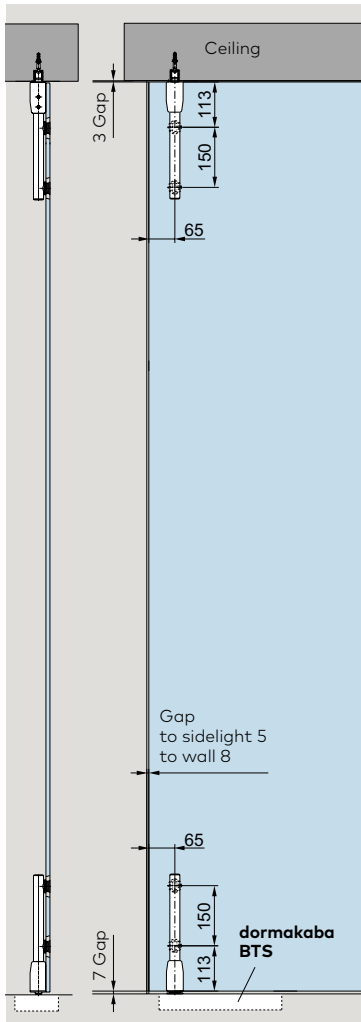
Construction 5 (2 sets) **Construction 6 (2 sets)** **Construction 7 (2 sets)** **Construction 8 (2 sets)**

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. 2500 mm
 Door width max. 1200 mm
 TSG 10/13.5 mm glass thickness

Product description	Art. No.
Set 1 with pivot rod pair short type	
Set 1 with single-point fixings countersunk consisting of: pivot rod pair top/bottom, short type	29.910
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	

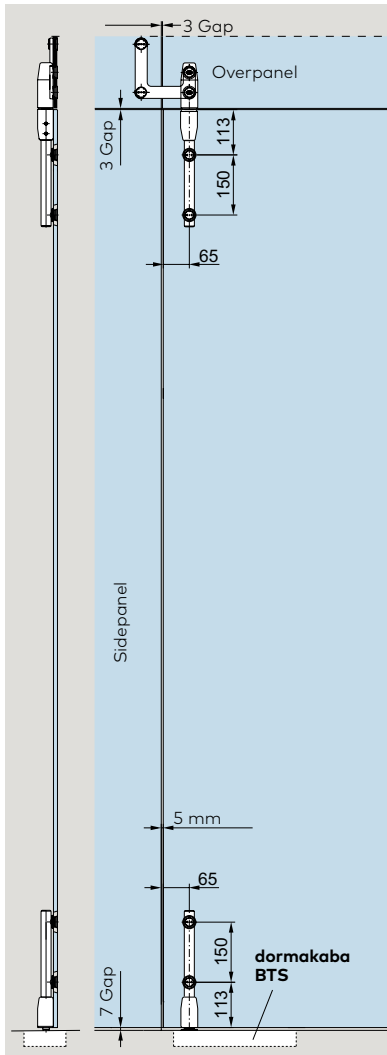
Accessory options for Set 1

Pull handles	Length	Art. No.
Pull handles	350	29.268
(single-point fixing countersunk)	720	29.271
	1240	29.274
	1760	29.277
Pair of pull handles	350	21.267
	720	21.270
	1240	21.273
	1760	21.276
Lock		
Corner lock		21.448
Corner lock with rose on one lock side		21.449
Profile cylinder for corner lock 21.448/449		14.206
Eccentric bushing for corner lock 21.448/449		05.194
Further accessories		
Stop for pivoting door with ceiling mounting		21.334
Ceiling fixing (bearing function)		29.337
Floor pivot bearing		01.106
Assembling tool for MANET single-point fixings		21.134

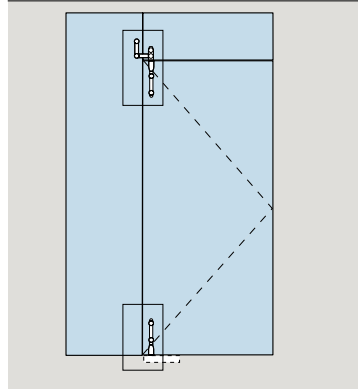
For the requisite glass preparation please see pages 188 –1 89

Set 3

Pivoting door MANET with overpanel for 10 – 13.5 mm glass



Door weight 80 kg
 Door height max. 2500 mm
 Door width max. 1200 mm
 TSG 10/13.5 mm glass thickness



Product description

Set 3
with pivot rod pair short type

Set 3 with single-point fixings countersunk
consisting of:
pivot rod pair top/bottom,
short type

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

Art. No.

29.914

Accessory options for Set 3

Pull handles	Length	Art. No.
Pull handles	350	29.268
(single-point fixing countersunk)	720	29.271
	1240	29.274
	1760	29.277
Pair of pull handles	350	21.267
	720	21.270
	1240	21.273
	1760	21.276
Ceiling fixing (bearing function)		29.337
Stop at overpanel, (inside/outside) for 10/13.5 mm glass		29.335
Lock		
Corner lock		21.448
Corner lock with rose on one lock side		21.449
Profile cylinder for corner lock 21.448/449		14.206
Eccentric bushing for corner lock 21.448/449		05.194
Further accessories		
Overpanel-sidelight connector for 10/13.5 mm glass		29.320
Floor pivot bearing		01.106
Assembling tool for MANET single-point fixings		21.134

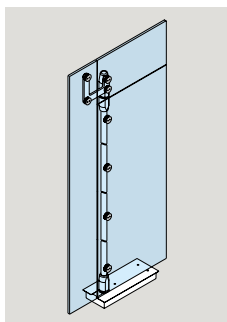
For the requisite glass preparation please see pages 188 – 189

Space for your notes

Pivoting door system

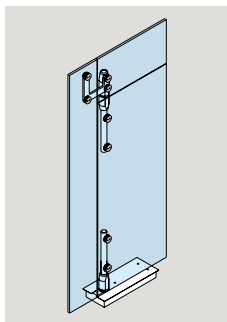
MANET pivoting doors can be installed in both glass partitions and masonry openings. They come as both single and double-action swing doors. All the single-point fixings are designed for clip-on covers for easier installation. Other components include the bottom pivot bearing, top pivot fittings with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

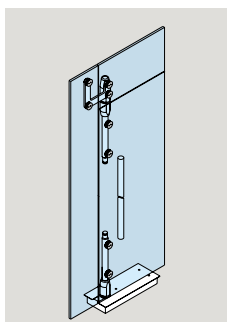


Pivot bearing with full-length pivot rod,
max. door panel height 3000 mm
max. door panel width 1200 mm
max. door panel weight 100 kg

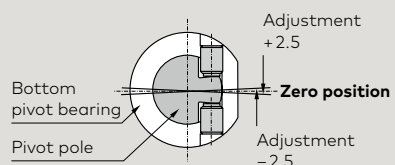
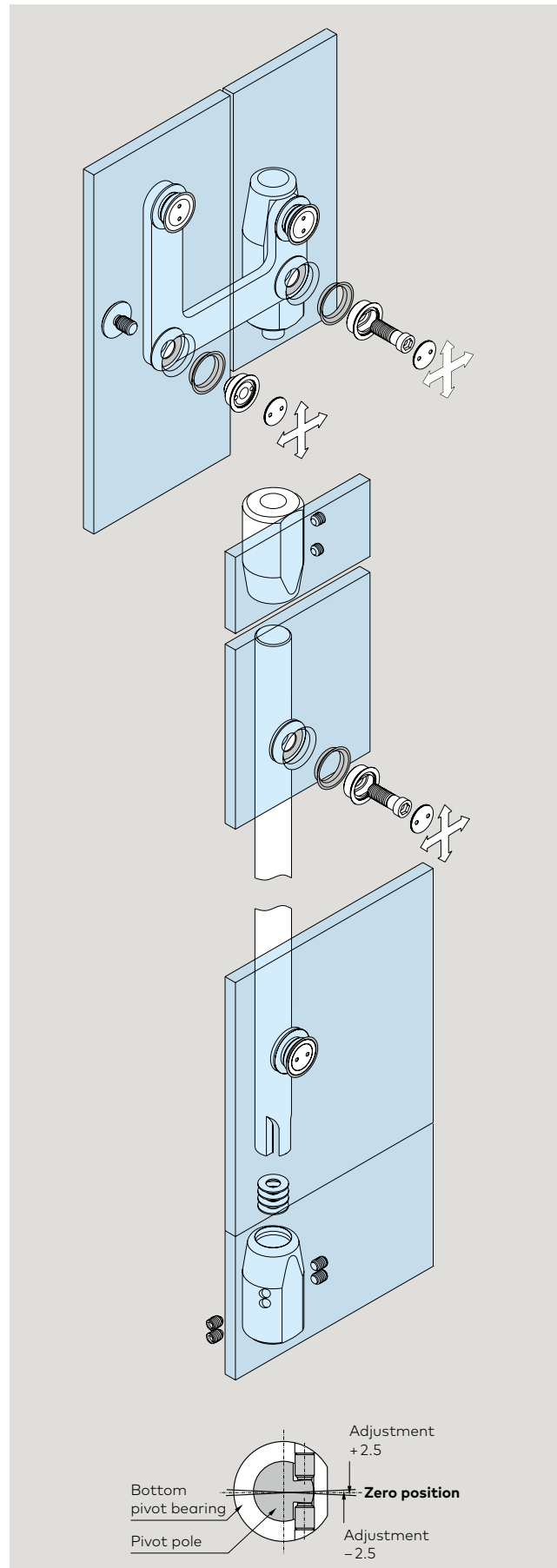
From a door panel height of 2700 mm a fifth single-point fixing is recommended.



Pivot bearing with pivot rod pair short type,
max. door panel height 2500 mm
max. door panel width 1200 mm
max. door panel weight 80 kg



Pivot bearing with pivot rod pair short type with intermediate tube,
max. door panel height 2500 mm
max. door panel width 1200 mm
max. door panel weight 80 kg



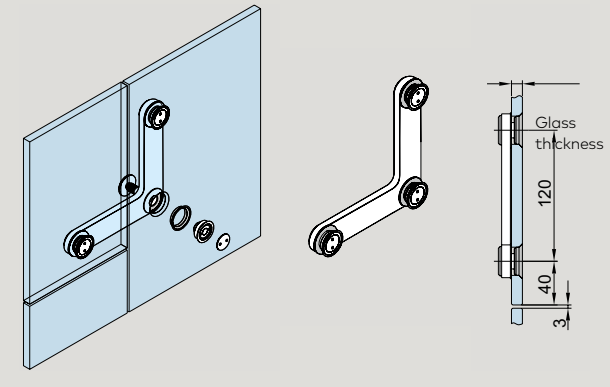
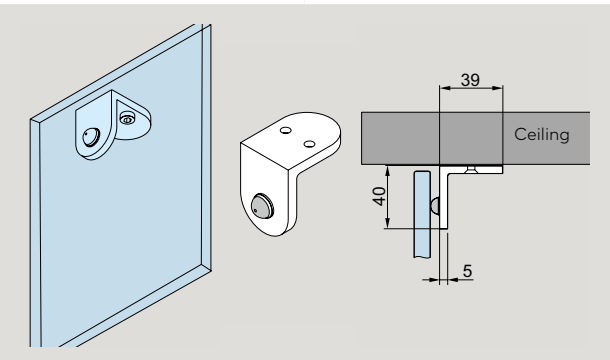
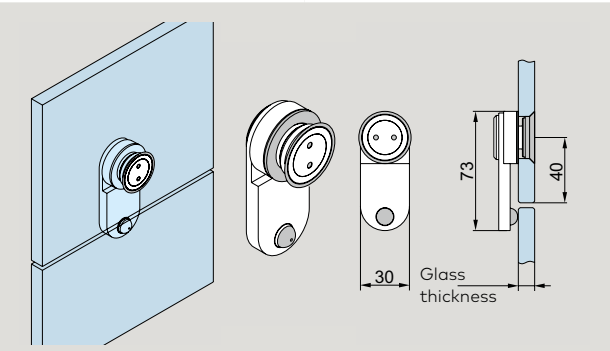
Components for pivoting door system

	Product description	Glass thickness	Art. No.
	<p>Pivot rod, drilled, fixed length</p> <p>Single-point fixing, countersunk, fixed (1)</p> <p>Single-point fixing, countersunk, centering (2)</p> <p>From a door panel height of 2700 mm a fifth single-point fixing is recommended.</p>	<p></p> <p>10, 13.5</p> <p>10, 13.5</p>	<p>29.551</p> <p>29.460</p> <p>29.462</p>
	<p>Pivot bearing for dormakaba BTS (max. 4 EN) / floor pivot</p> <p>AISI 316L</p>		<p>29.545</p>
	<p>Pivot bearing for overpanel and ceiling connection</p> <p>AISI 316L</p>		<p>21.310</p>

Components for pivoting door system

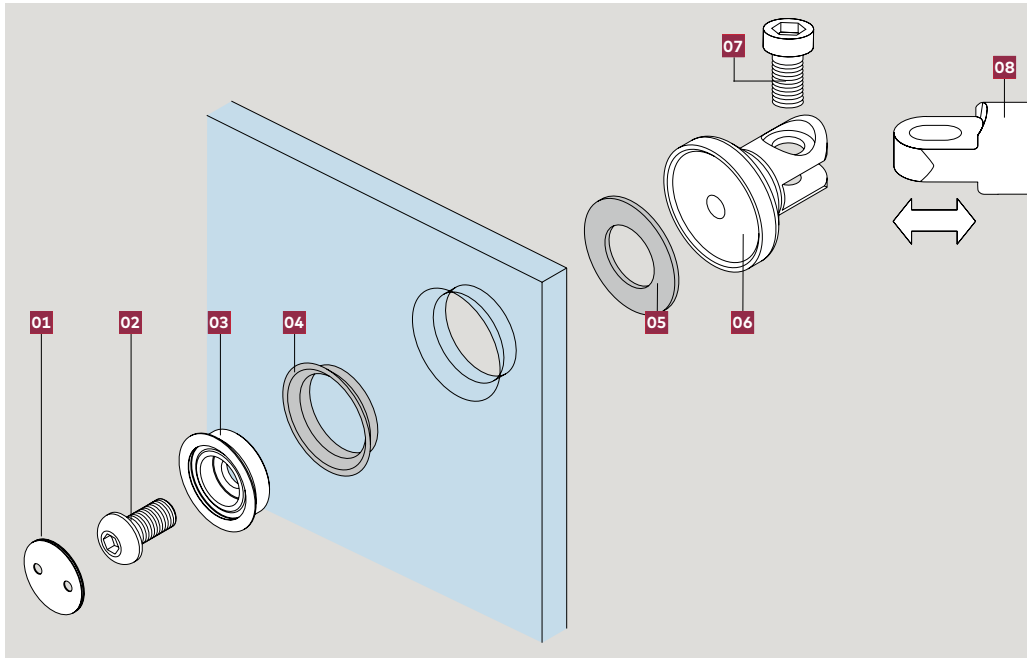
		Product description	Glass thickness	Art. No.
		<p>PT 25 pin for ceiling connection</p>		<p>01.115</p>
		<p>Pivot bearing for installation to ceiling adjustable</p>	<p>8-13.5</p>	<p>21.319</p>
		<p>Pivot bearing location for overpanel countersunk</p>	<p>10-13.5</p>	<p>29.333</p>
		<p>Overpanel / sidelight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

Glass fixing

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

Connection elements

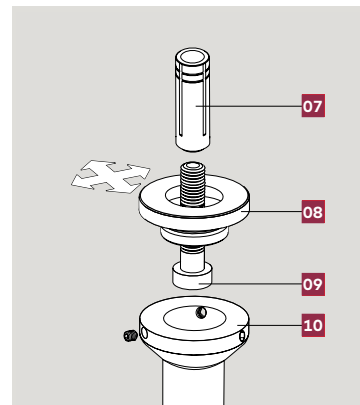
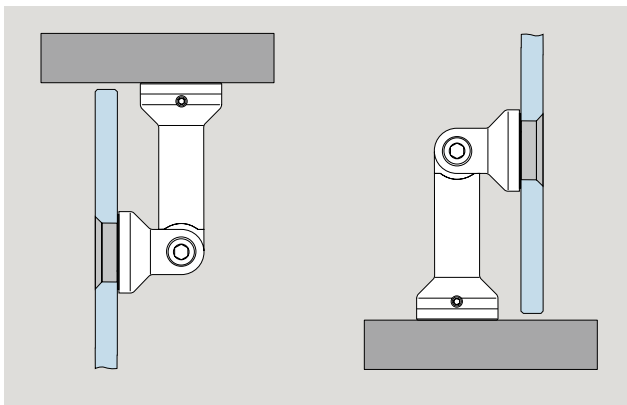
Glass fixing



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

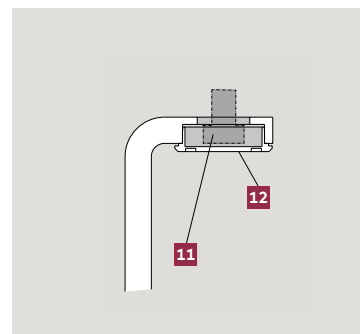
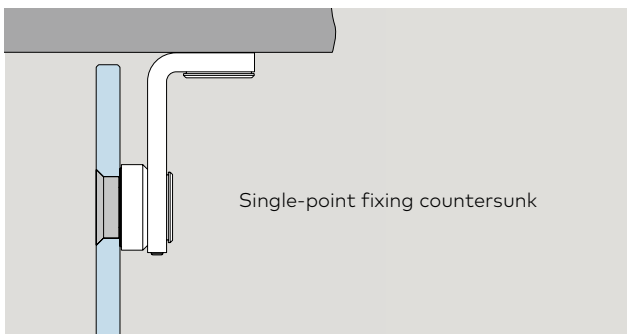
Connection ceiling / floor



Components

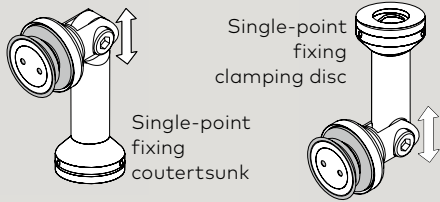
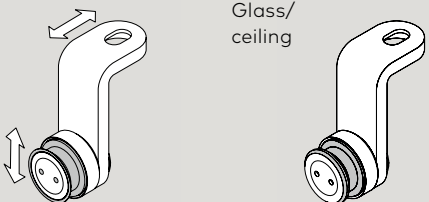
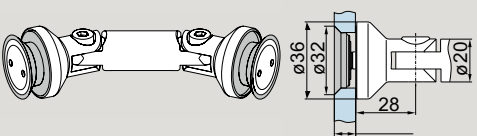
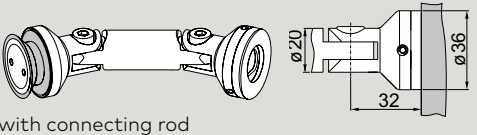
- 07** Wallplug on site
- 08** Mounting plate, 2-dimensional adjustable
- 09** Threaded rod M8
- 10** Column

Alternative connection ceiling

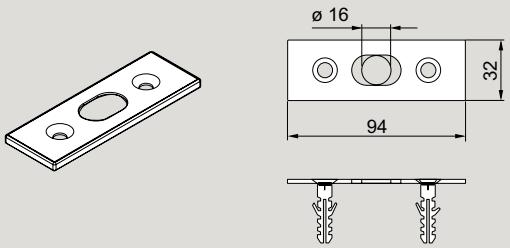
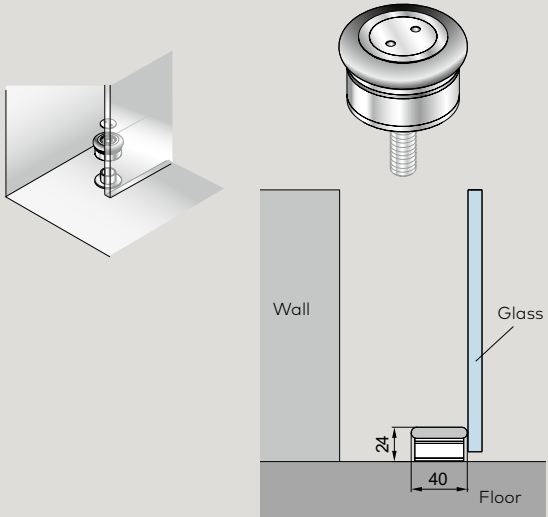


Components

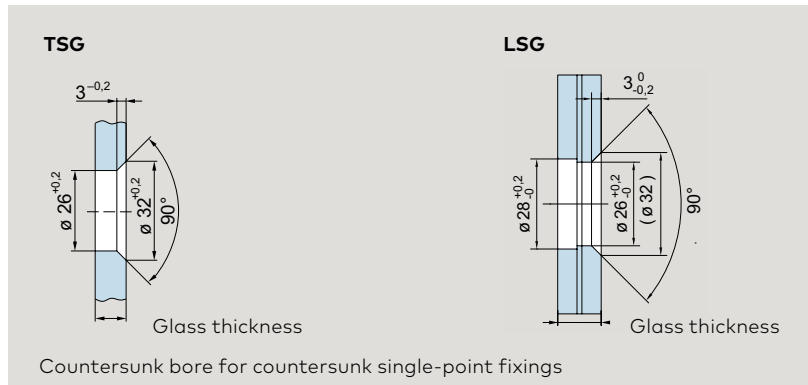
- 11** Threaded rod M8 DIN 7984 M10 x..., or oval-head wood screw DIN 7996 M8 x...
- 12** Clip-on cover

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

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

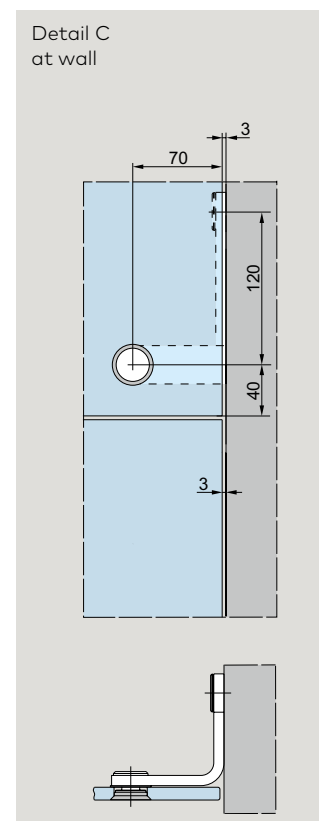
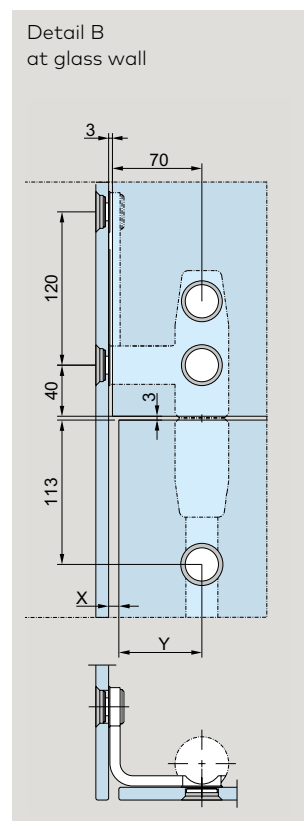
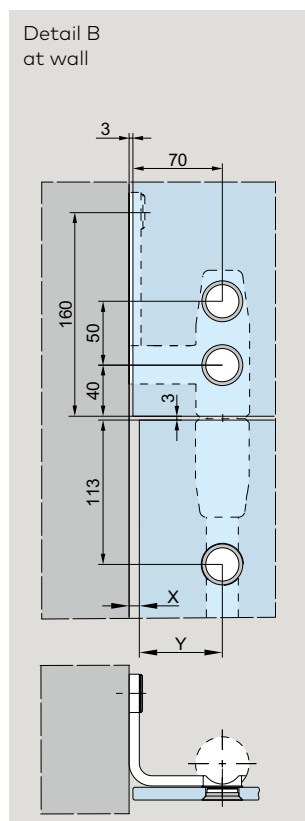
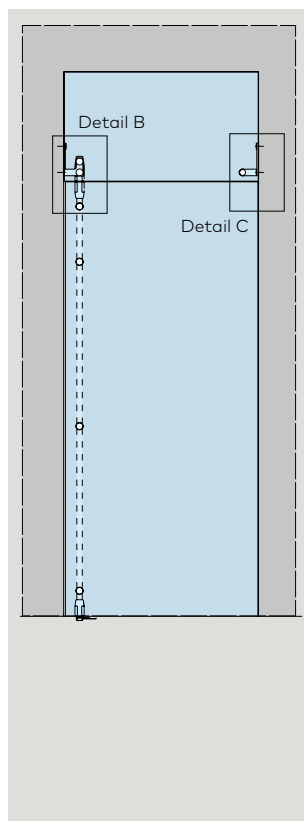
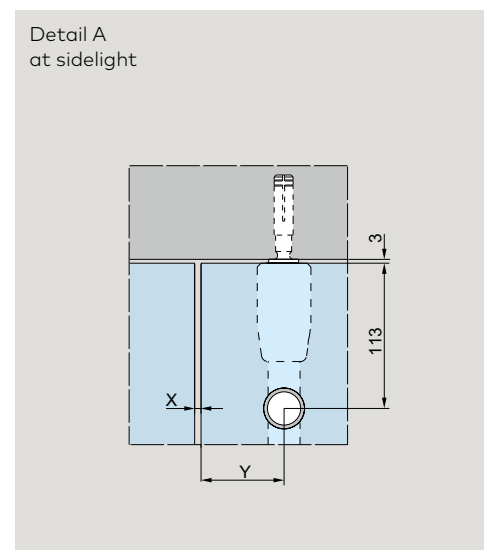
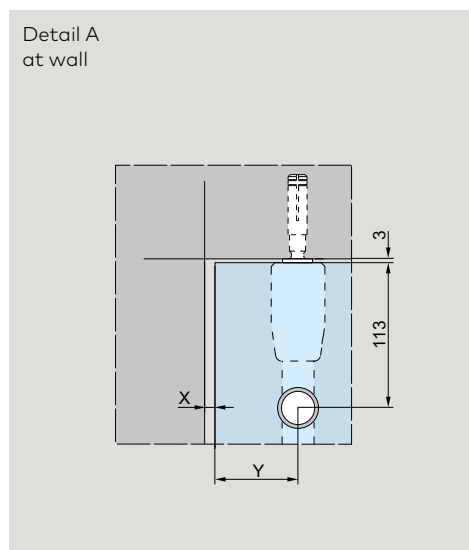
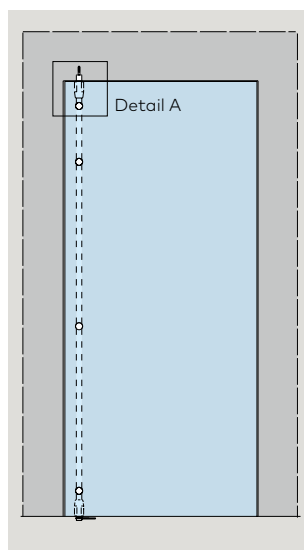
	Product description	Glass thickness	Art. No.
	Strike plate		05.190
	Stop for pivoting door floor mounting		29.950

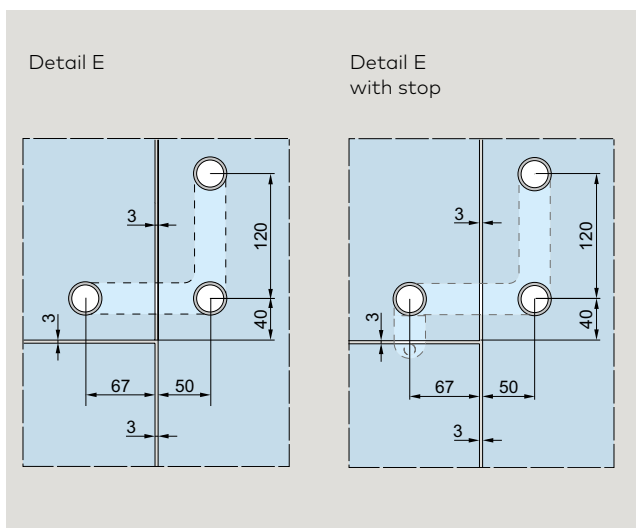
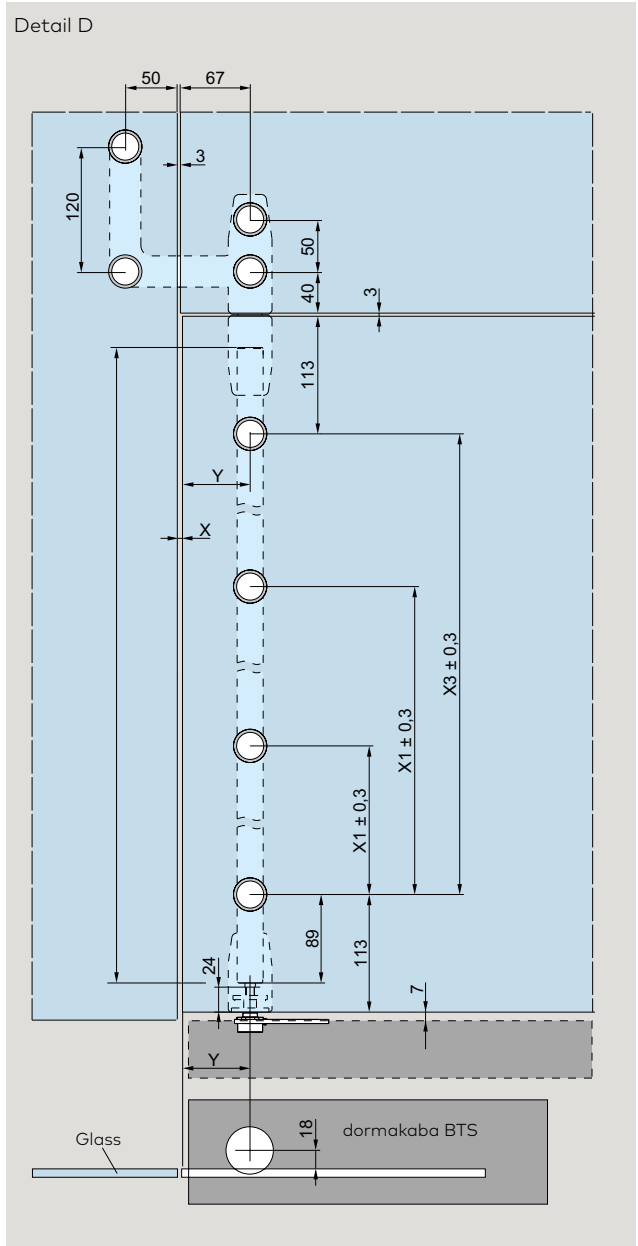
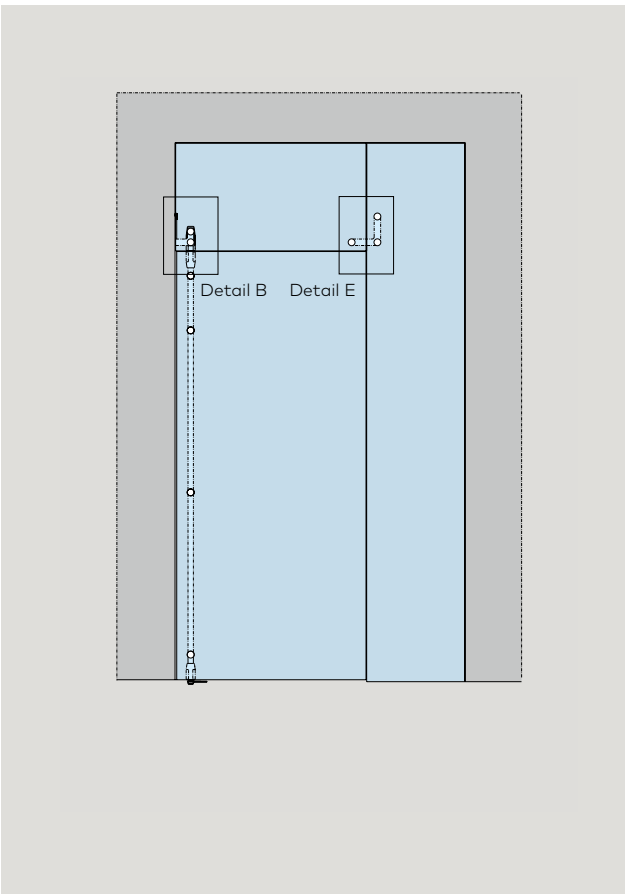
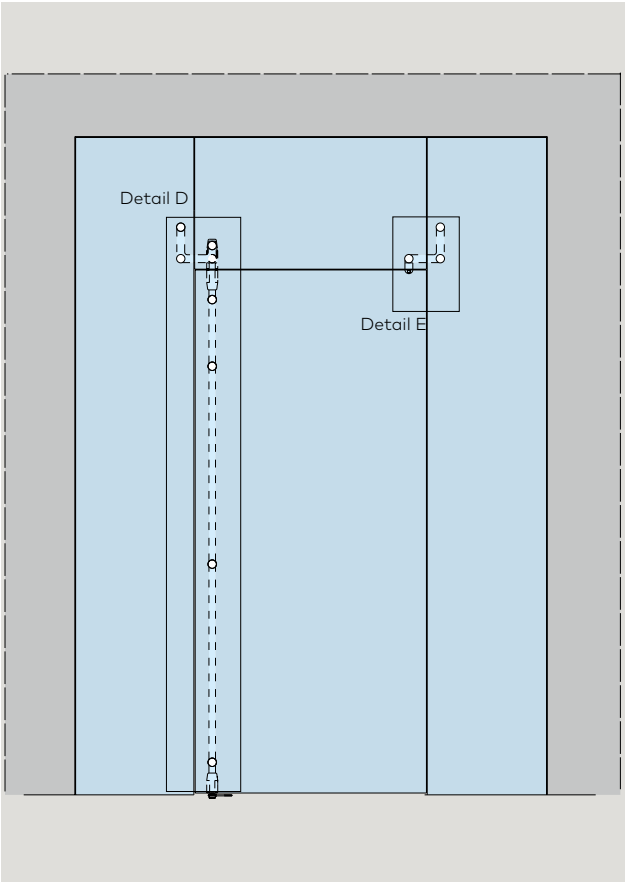
Glass preparation pivoting door system



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	

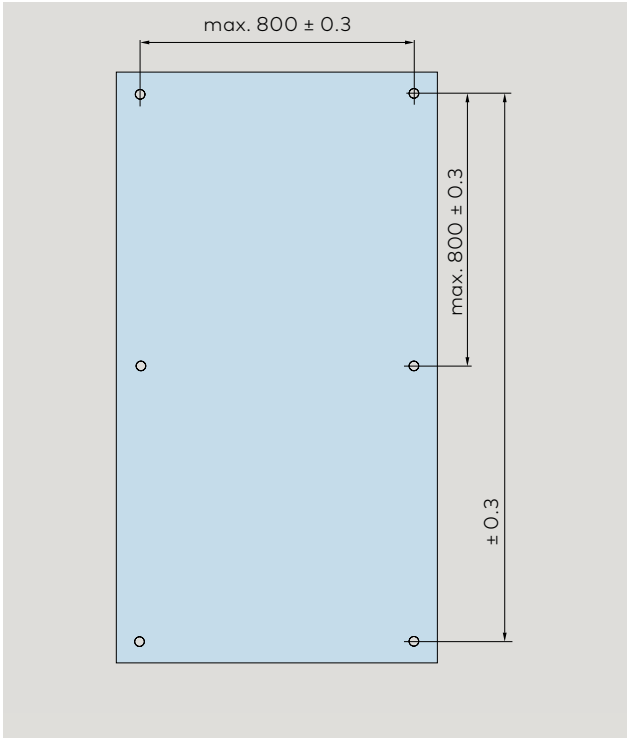




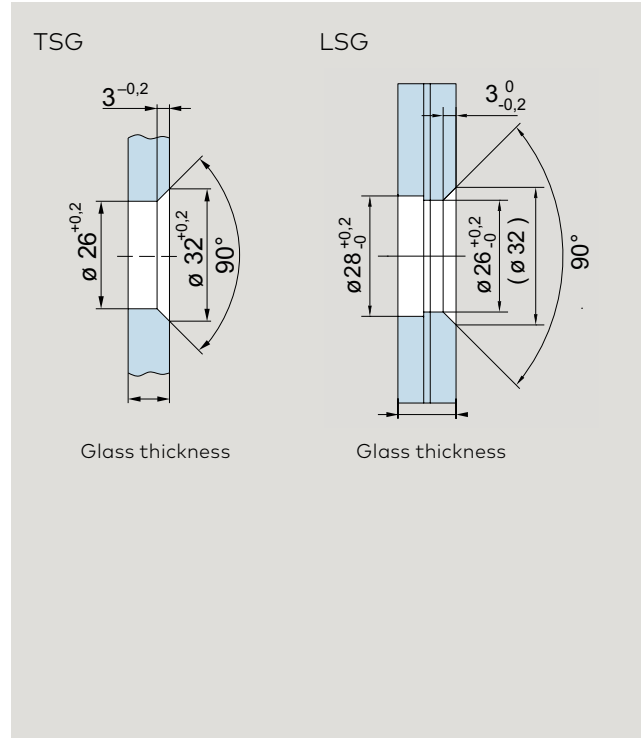
Glass preparation connection system

For TSG and LSG from TSG.

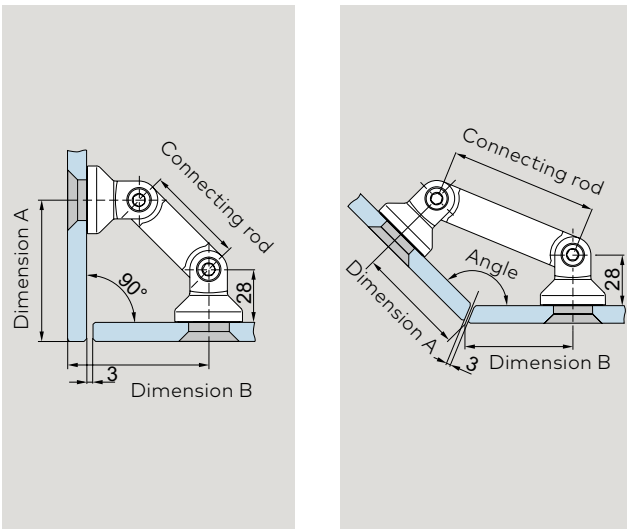
Recommended centers for fixed glazing element



Countersunk bore for countersunk single-point fixings



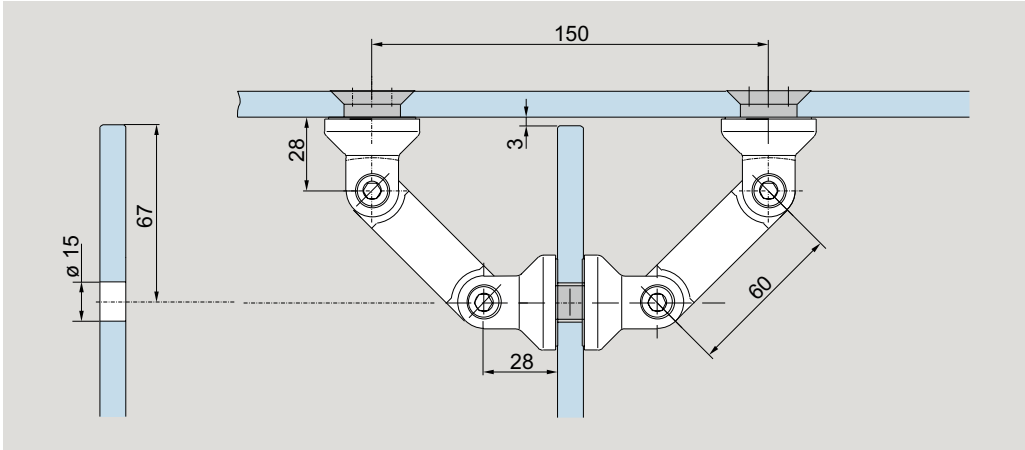
Corner connectors glass / glass 90 – 180°



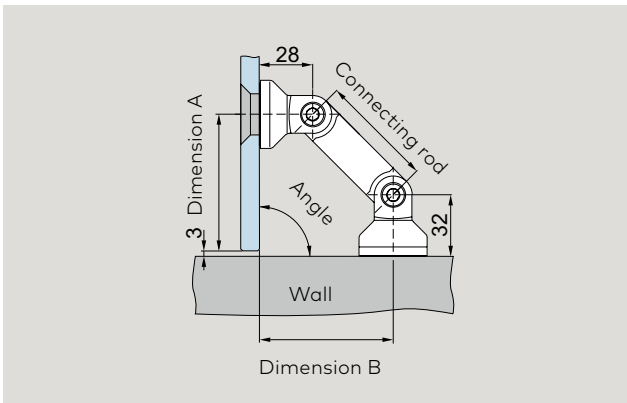
Corner connectors glass / glass (dimensions in mm)

Length of connecting rod		
	60	103
Dimensions for 10 mm glass thickness. Consider variants for other glass thicknesses.		
Angle	A/B	A/B
90°	80	111
95°	76	105
100°	71	99
105°	67	94
110°	63	90
115°	60	85
120°	57	81
125°	54	78
130°	51	75
135°	48	72
180°	(theo.28)	50

Clamping connector



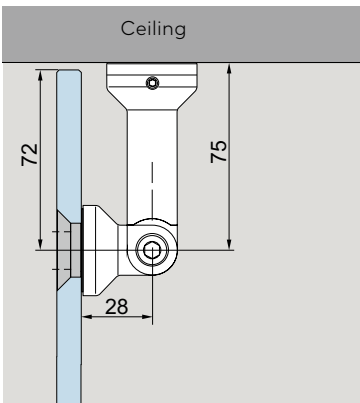
Corner connectors glass / wall 90 – 180°



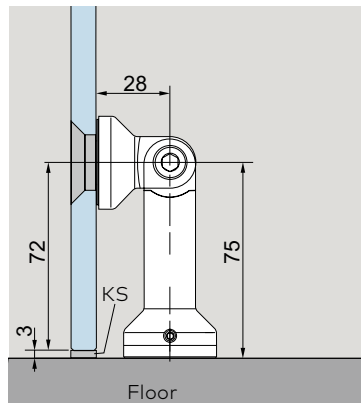
Glass / wall (dimensions in mm)

Glass / wall (dimensions in mm)		
	Length of connecting rod	
	60	82
	Dimensions for 10 mm glass thickness. Consider variants for other glass thicknesses.	
Angle	A/B	A/B
90°	72/70	87,5/86

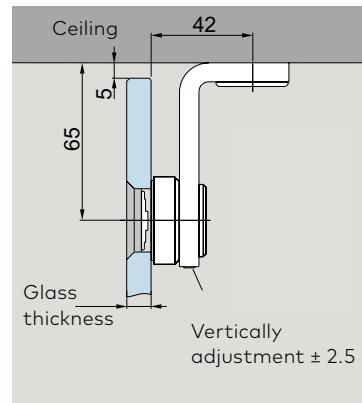
Corner connector glass / ceiling



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. ± 0.3 mm is recommended.

Content

SG

174	General information
174	Components
188	Glass preparation
204	Accessories
226	Safety-related information



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

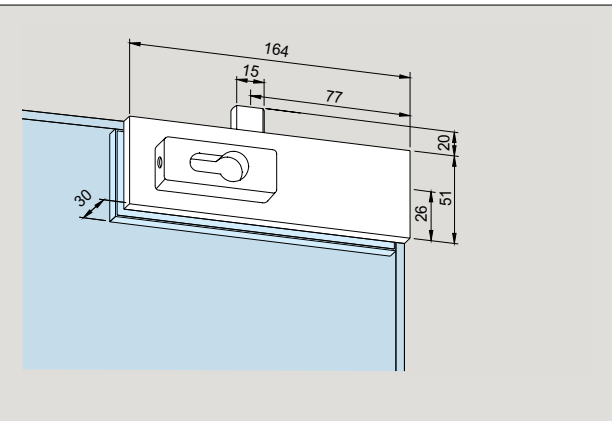
Quality materials and thorough workmanship mean that SG locks have the features necessary to meet the most demanding of specifications. Many satisfied customers will testify this. For safety reasons set lock case always on inside.

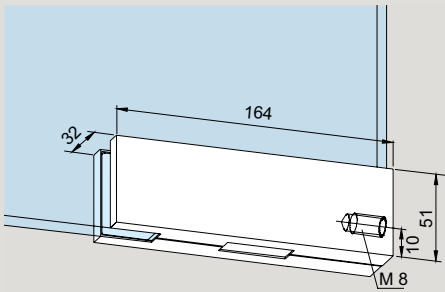
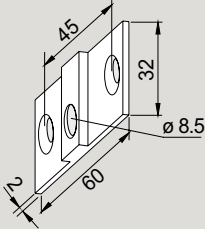
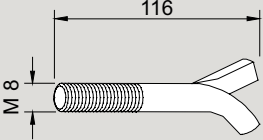
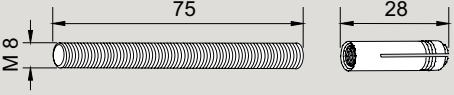
Short delivery times

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

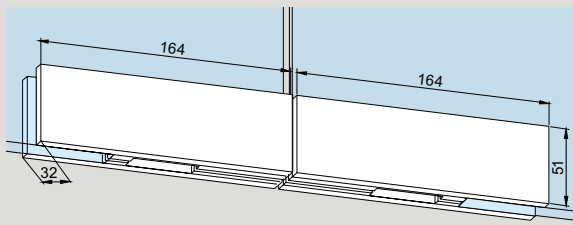
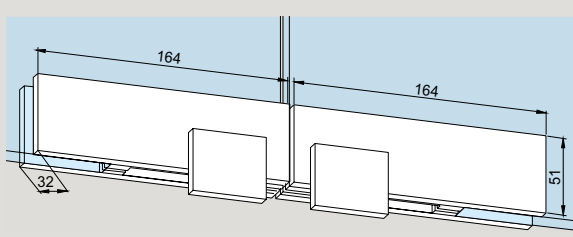
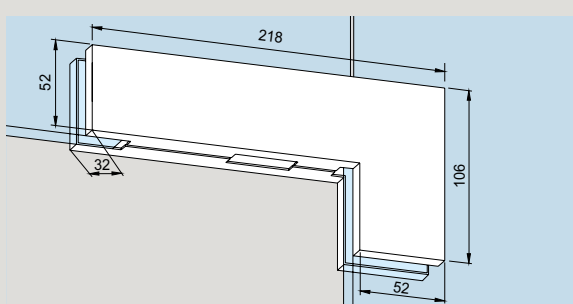
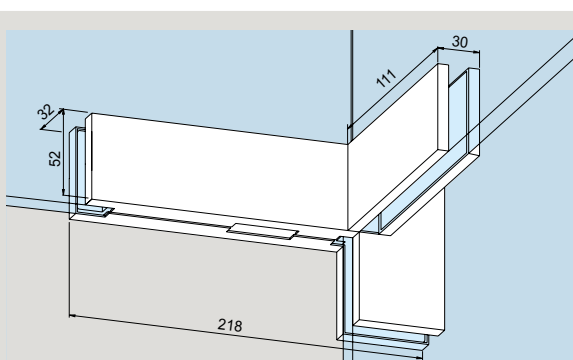
UNIVERSAL top, bottom, centre locks and strike boxes with glass cut-outs

Complete, for 10 mm glass thickness

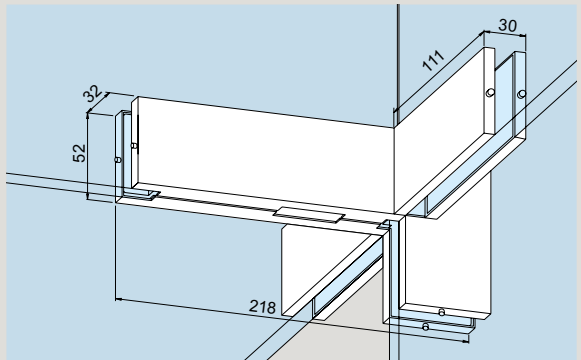
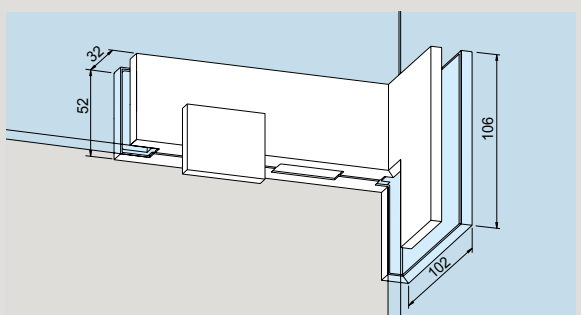
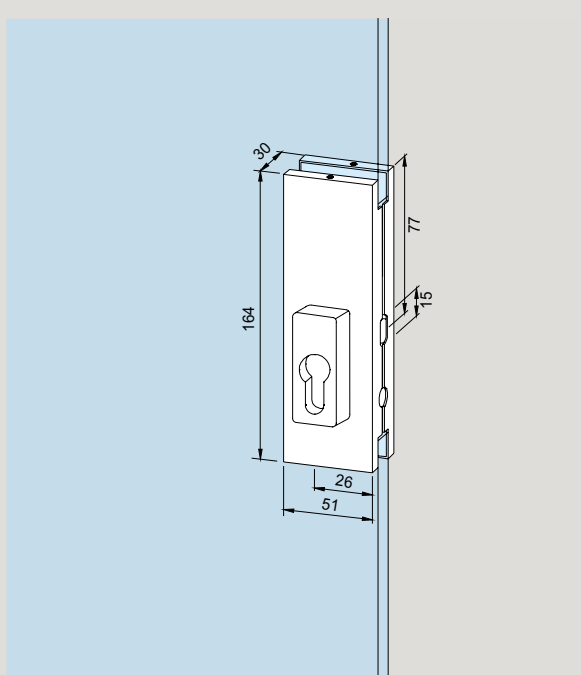
	Product description	Glass thickness	Art. No.
	US 10 corner lock, prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides, 14 mm thick. Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.	10	03.206
	Lock insert: <ul style="list-style-type: none"> • high corrosion resistance according to EN 1670, class 4 • with regard to type-test according to EN 12209:2003* Not illustrated: prepared for round cylinders	10	03.340
	For half profile cylinder		
	left hand top/right hand bottom	10	03.288 not illustr.
	left hand bottom/right hand top	10	03.287 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 200000 movement cycles.		

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

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

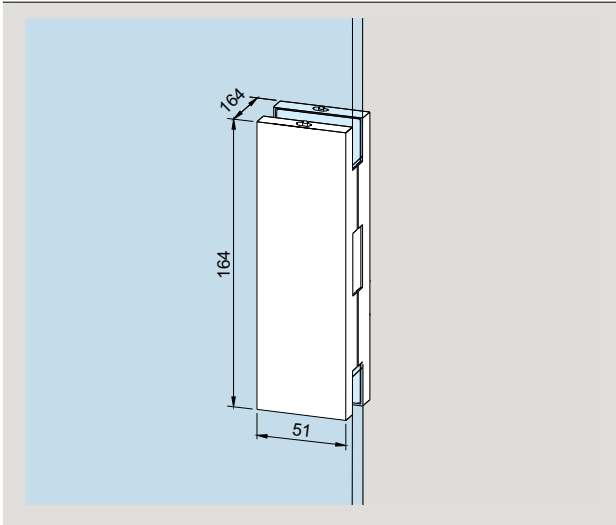
	Product description	Glass thickness	Art. No.
	<p>GK 20 double overpanel strike box to suit US 10 corner locks, consisting of two GK 30 with threaded connecting bolt</p> <p>Weight in kg: Aluminum 0.866 Brass 1.154 Satin stainless steel (700) 1.200</p> <p>Suitable for glass thicknesses up to max. 12 mm.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

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

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

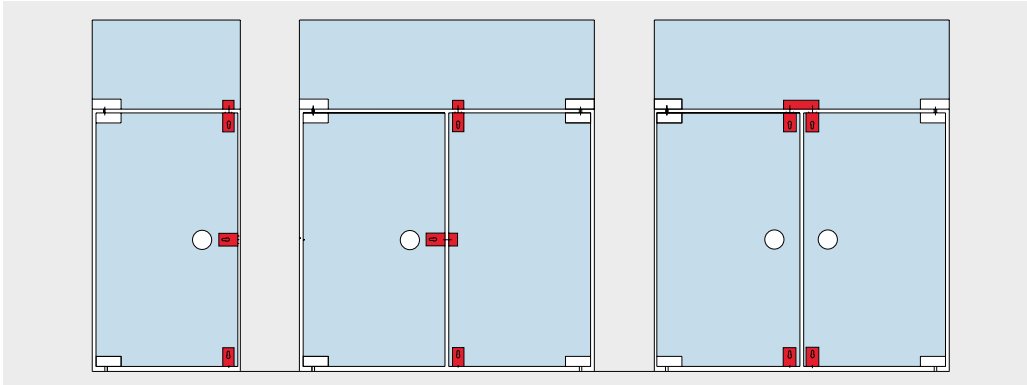
* Left / right hand (illustration shows left hand) are determined by view from hanging side.

** Successful type testing according to EN 12209:2003 to 200000 movement cycles.

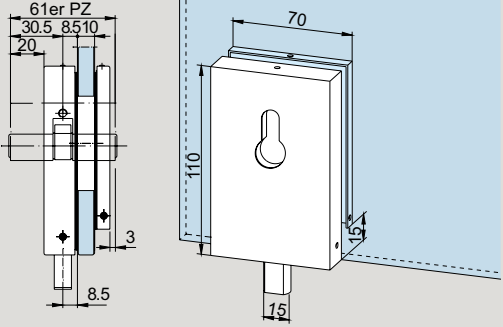
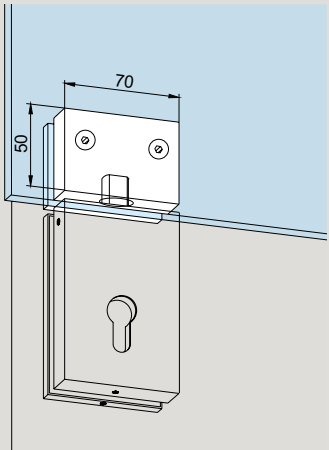
	Product description	Glass thickness	Art. No.
	GK 50 strike box to suit US 20 centre lock Weight in kg: Aluminum 0.602 Brass 0.730 Stainless steel 0.727	10	03.224

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

Complete for 8, 10 and 12 mm glass thickness

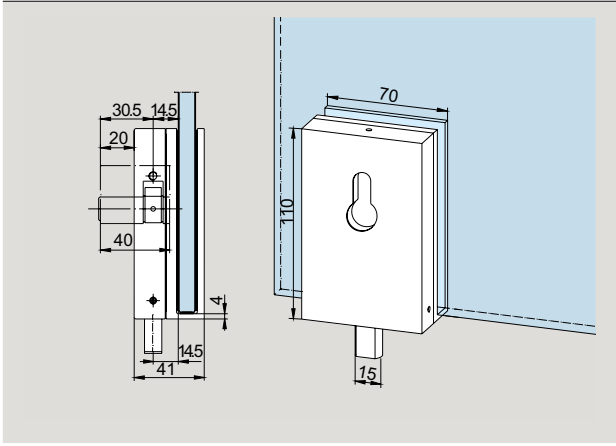
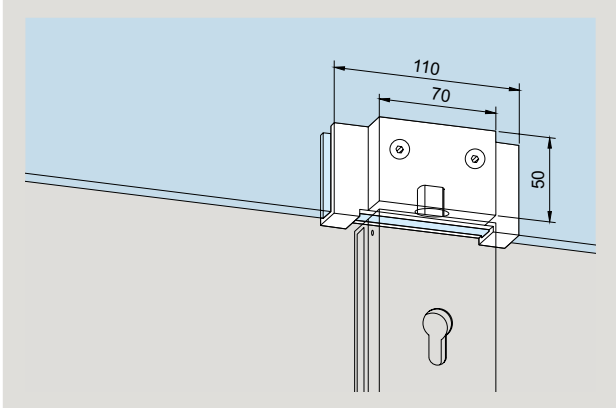


		Product description	Art. No.
		Corner lock, for vertical or horizontal fixing, double throw, bolt projection 20 mm, hardened oval bolt, prepared for Europrofile cylinder	05.100
		Weight in kg: Aluminum 0.849 Brass 1.033	
		prepared for round cylinders	05.105 not illustr.
		Prepared for one-sided Europrofile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

	Product description	Art. No.
	<p>Corner lock, 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</p> <p>Weight in kg: Aluminum 0.807</p> <p>Prepared for one-sided Europrofile cylinder, lockable from inside</p> <p>Weight in kg: Aluminum 0.818 Brass 0.984</p> <p>Prepared for Europrofile cylinder, rose inside</p> <p>Weight in kg: Aluminum 0.882 Brass 1.184</p>	<p>05.103</p> <p>05.117 not illustr.</p> <p>05.119 not illustr.</p>
	<p>Strike box to suit corner lock (05.100, 05.105, 05.116), for single and two panel doors without stop</p> <p>Weight in kg: Aluminum 0.260 Brass 0.765</p> <p>with stop for Art. No. 05.103, 05.117, 05.119</p> <p>Weight in kg: Aluminum 0.264 Brass 0.760</p>	<p>05.108</p> <p>05.109 not illustr.</p>

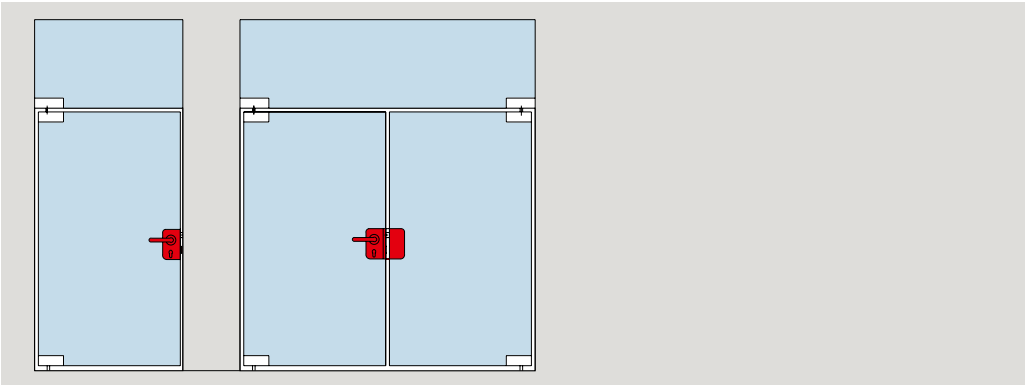
Corner and centre locks without glass preparation

Complete, for 10 and 12 mm glass thickness

	Product description	Glass thickness	Art. No.
	Slide over corner lock for single- and double-action doors for retrofitting, double throw, bolt projection 20 mm, hardened oval bolt, prepared for Europrofile cylinder Special model for 8 mm glass also available. Weight in kg: Aluminum 0.740	10 12	05.106 05.130
	prepared for Rundzylinder Weight in kg: Aluminum 0.735	10	05.107
	Slide over strike box for slide over corner lock for single door Weight in kg: Aluminum 0.341		
	for Art. No. 05.106/05.107 for Art. No. 05.130/05.131	10 12	05.112 05.132

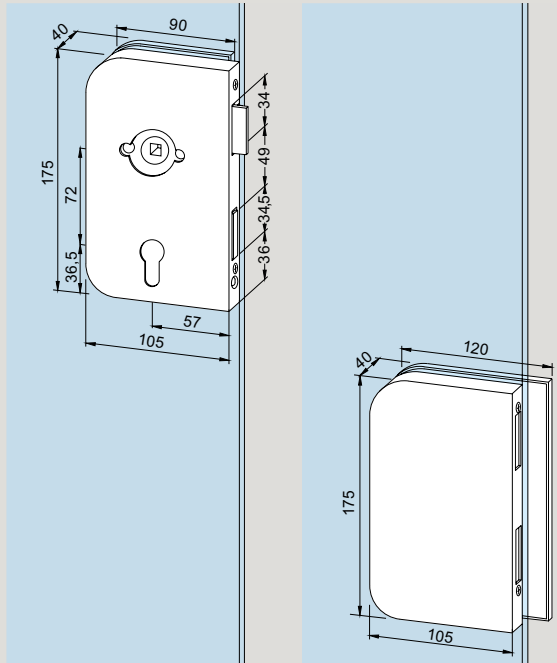
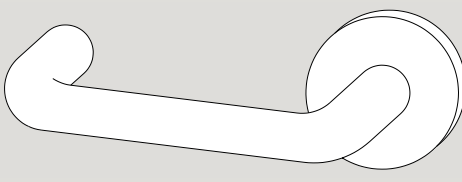
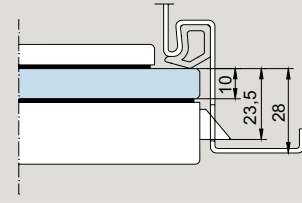
Centre locks and strike boxes

Complete, for 10 mm glass thickness



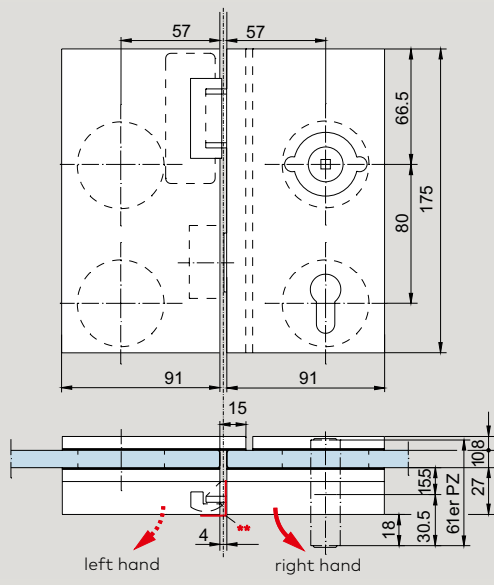
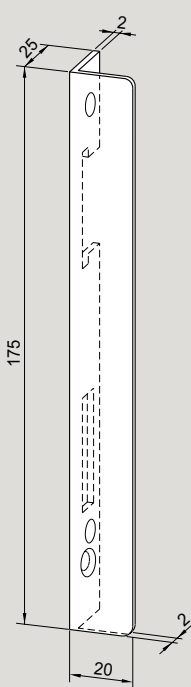
Centre locks and strike boxes
with drilled holes glass preparation

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

	Product description	Art. No.
	<p>Centre lock 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</p> <p>Weight in kg: Aluminum 1.175</p> <p>Strike box to suit centre locks for: Art. No. 11.224, 11.225 Art. No. 11.220, 11.221</p> <p>Weight in kg: Aluminum 0.945</p>	<p>*11.224/11.225</p> <p>*11.203/12.207</p>
	<p>Lever handle, for inside to suit centre locks for: Art. No. 11.224, 11.225, Art. No. 11.254, 11.255</p> <p>Weight in kg: Aluminum 0.195</p>	<p>11.226</p>
	<p>If used on glass doors in rebated frames and for 10 mm glass thickness, a minimum of 26–28 mm frame depth is needed.</p> <p>* Left / right hand (illustration shows left hand) are determined by view from hanging side.</p>	

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

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

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

* 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

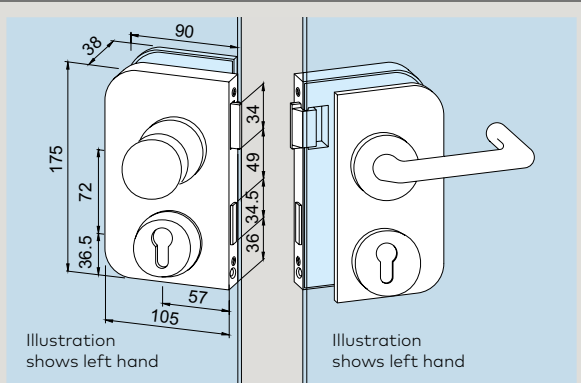
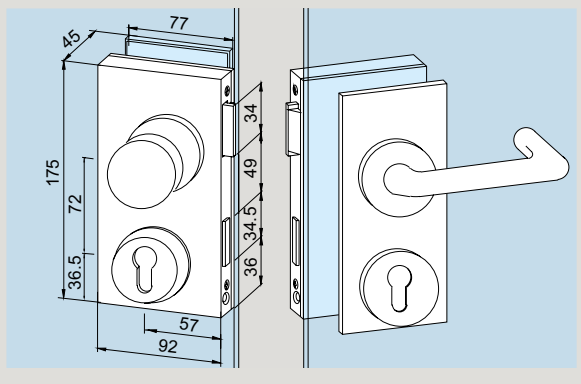
for 8 and 10 mm glass thickness

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.
	<p>Centre lock with both latch and lock bolt, rose lever on inside and fixed knob (without function) on outside. Prepared for Europrofile cylinder with roses</p> <p>Weight in kg: Aluminum 1.706</p> <p>Please use strike box 11.206/11.207.</p>	<p>*05.240/05.241</p>
	<p>For strike boxes with electric strike release</p> <p>Centre lock with both latch and lock bolt, with angled cover, for door opening outwards (not shown), rose lever on inside 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</p> <p>Weight in kg: Aluminum 2.900</p>	<p>*05.244/05.245</p>

*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

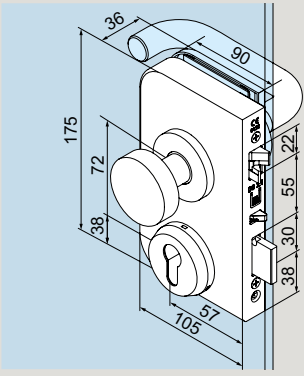
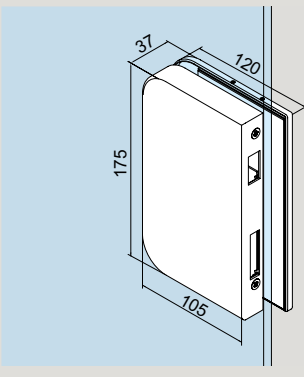
Self-locking panic locks, opening to outside

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>Centre lock OFFICE Junior SVP 5000 with both latch, lock bolt self-locking function rose lever on inside and fixed knob (without function) on outside. Prepared for Europrofile cylinder with roses</p> <p>Weight in kg: Aluminum 1.706</p>	*05.250/05.251
	<p>Strike box for self-locking panic lock 05.250/05.251</p> <p>Weight in kg: Aluminum 1.486</p>	*05.252/05.253

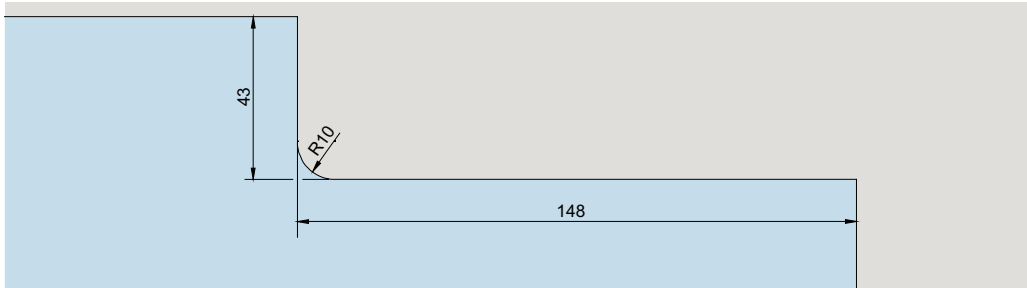
Please note:

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

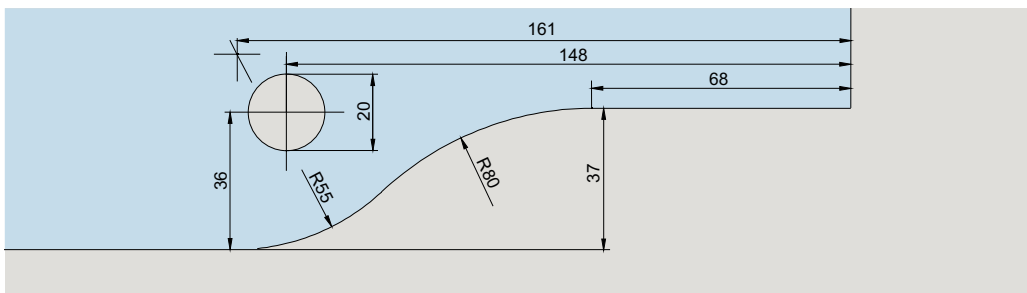
Glass preparation locks



US 10

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

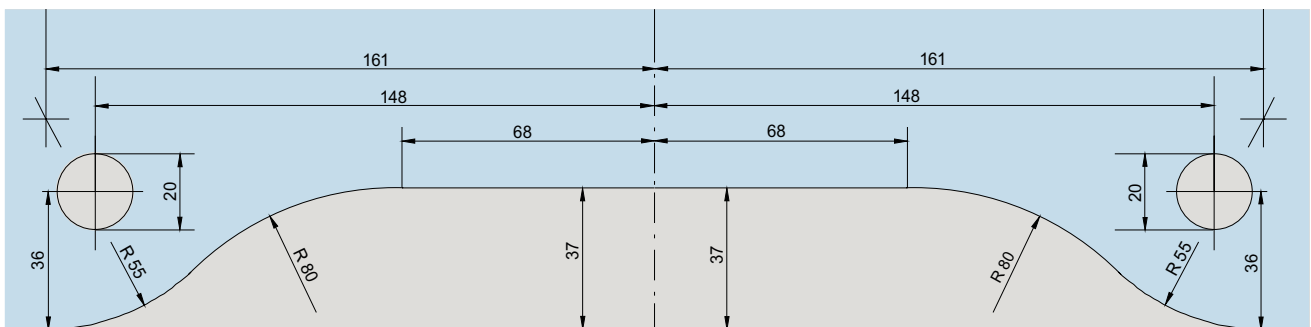
Scale 1 : 2



GK 30 (PT 30)

Single overpanel
strike box
Art. No. 03.230,

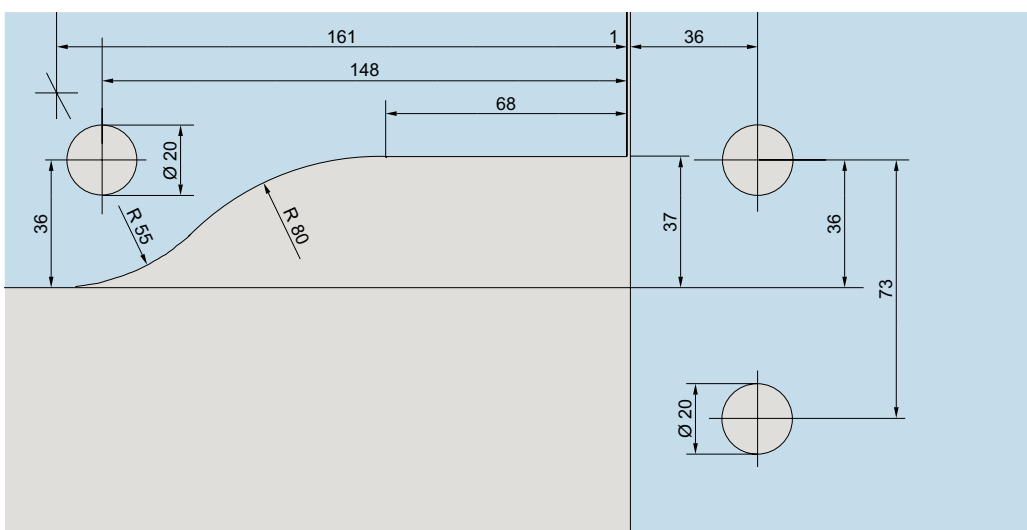
Scale 1 : 2



GK 20

Double overpanel
strike box
Art. No. 03.245,
03.247

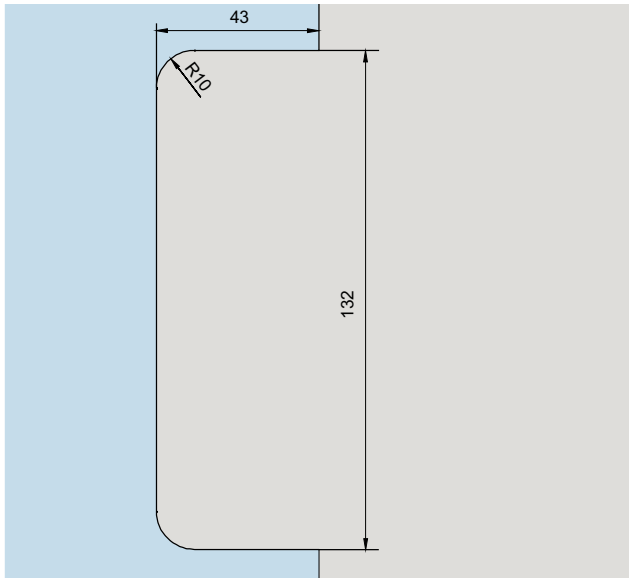
Scale 1 : 2



GK 40 (PT 40)

Corner overpanel
strike box
Art. No. 03.250,

Scale 1 : 2

**US 20, GK 50**

Centre lock

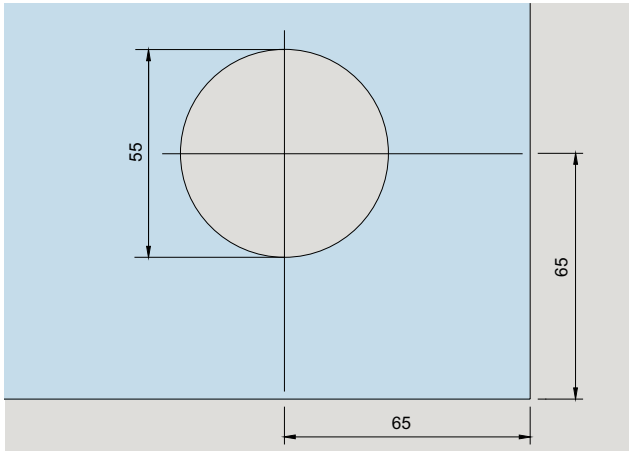
Art. No. 03.215, 03.289, 03.290, 03.345

and strike box for centre lock

Art. No. 03.224

Scale 1 : 2

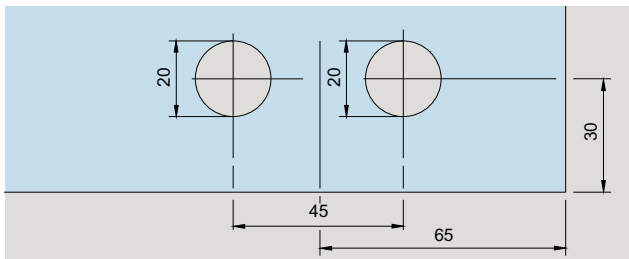
Glass preparation for corner, centre locks and strike boxes, requiring drilled holes



Corner locks

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

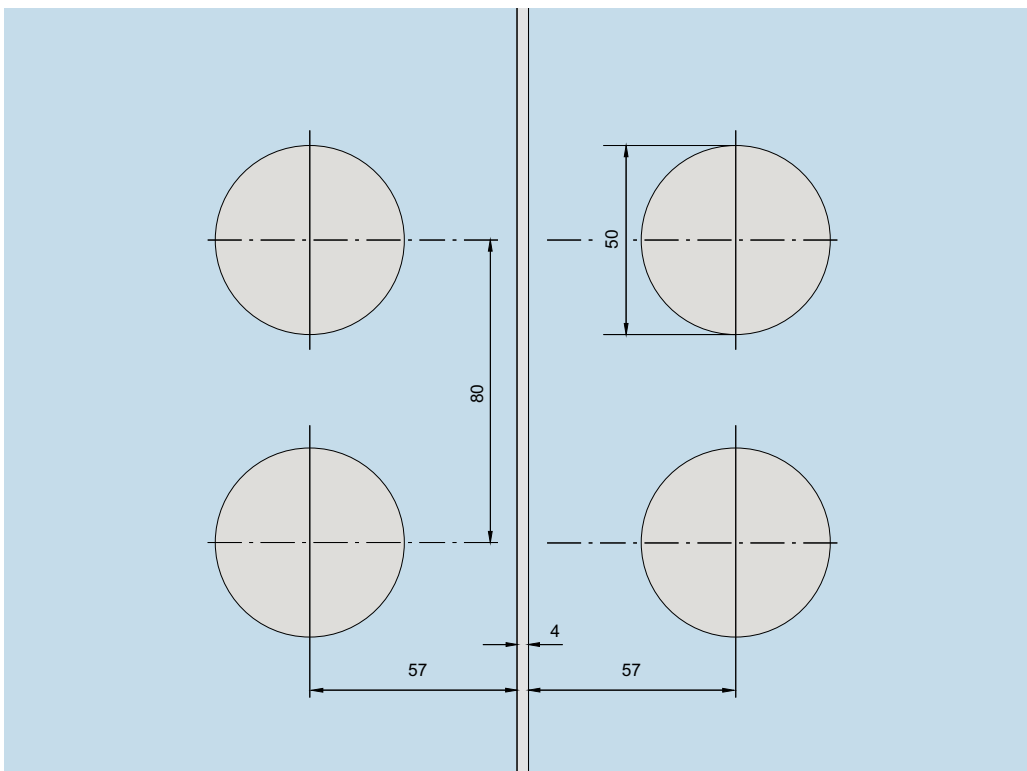
Scale 1 : 2



Strike boxes

Art. No. 05.108, 05.109

Scale 1 : 2

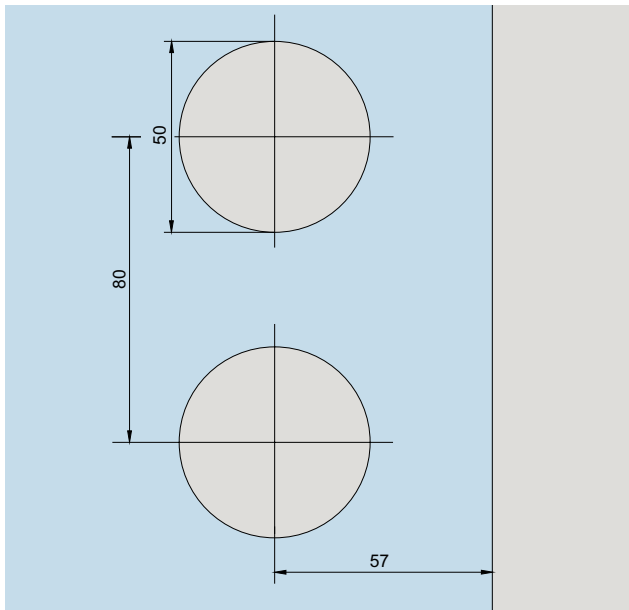


Centre locks with latch and lock bolts, and strike boxes

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



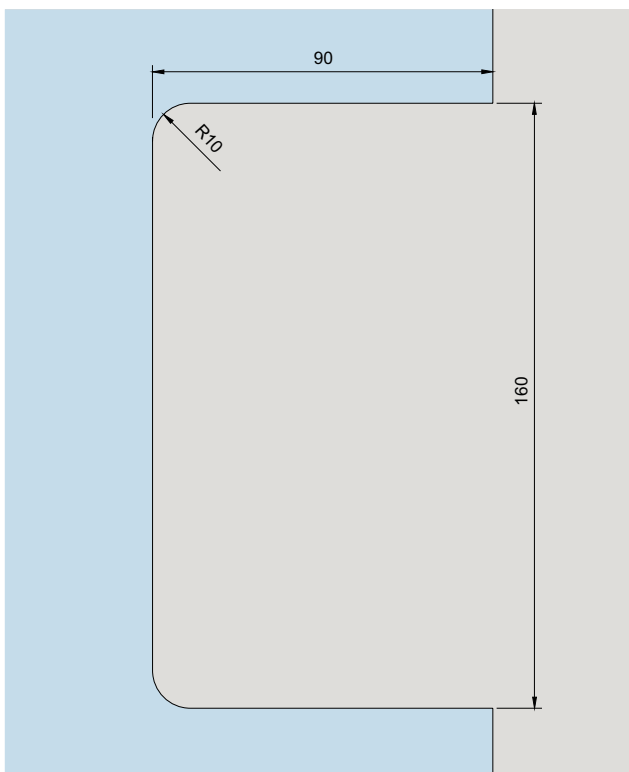
Centre locks

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	General information
195	Components
204	Accessories
226	Safety-related information



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).

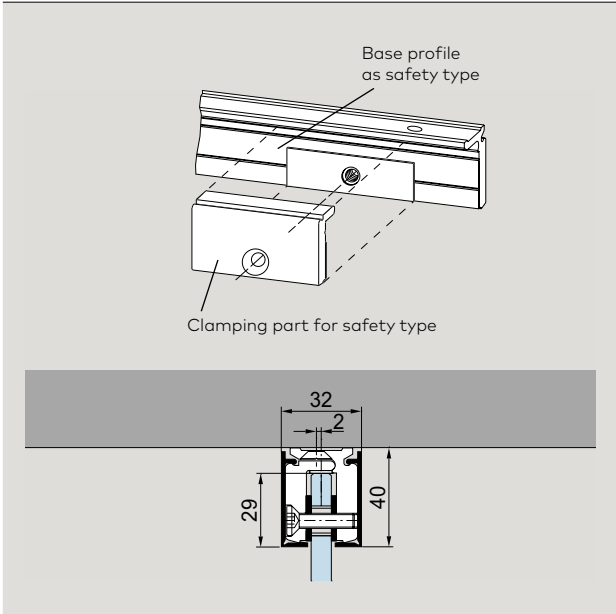
	Product description	Glass thickness	Art. No.
	Base profile 6000 mm Stock length	8	07.042
		10	07.001
		12	07.002
		12.7	07.045
		13.5	07.046
		15	07.047
		17	07.048
		19	07.049
		22	07.090
	Fixed length	8	07.050
		10	07.051
		12	07.052
		12.7	07.055
		13.5	07.056
		15	07.057
		17	07.058
		19	07.059
		22	07.091
	Clamping part (addition/replacement) 60 mm long, with screws and gasket strips	8	07.043
		10	07.004
		12	07.005
		12.7	07.085
	13.5	07.086	
	15	07.087	
	17	07.088	
	19	07.089	
	22	07.094	

Safety type

Product description

Glass thickness

Art. No.



Base profile as safety type
6000 mm Stock length

8 **07.060**
10 **07.061**

Fixed length

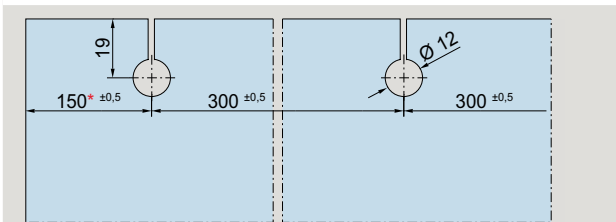
8 **07.066**
10 **07.067**

Weight in kg/m:
Aluminum 1.200

Clamping part (addition/replacement)
for Safety type

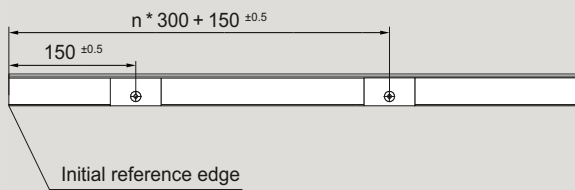
8 **07.063**
10 **07.064**

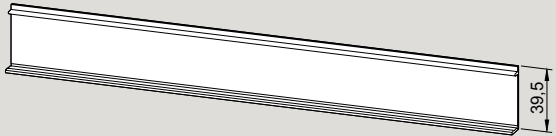
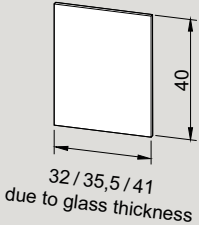
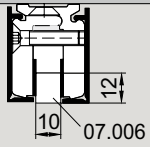
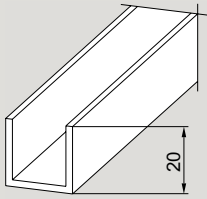
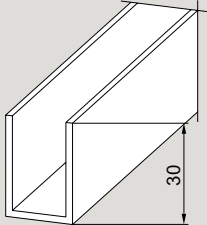
60 mm long,
with screws and gasket strips



Glass preparation for Safety type

*If glass and profile are aligned.



	Product description	Glass thickness	Art. No.
	<p>Clip on cover profile stainless steel, satin and stainless steel polished door available</p> <p>Weight in kg/m: Aluminum 0.216 Stainless steel 0.366</p> <p>6000 mm stock length fixed length</p>		<p>07.003 07.053</p>
	<p>End cap</p> <p>Weight in kg/pc: Aluminum 0.003 Brass 0.090 Stainless steel 0.090</p> <p>Aluminum 0.003 Brass 0.010 Stainless steel 0.010</p> <p>Aluminum 0.003 Brass 0.011 Stainless steel 0.012</p>	<p>8 and 10 12-13.5 15-19</p>	<p>07.007 07.044 07.065</p>
	<p>Filler block, 10 x 12 mm</p> <p>6000 mm stock length fixed length</p> <p>Weight in kg/m: Aluminum 0.325</p>		<p>07.006 07.054</p>
	<p>U-profile 20 x 20 x 20 x 2 mm</p> <p>6000 mm stock length fixed length</p> <p>Weight in kg/m: Aluminum 0.304</p>		<p>07.092 07.093</p>
	<p>U-profile 30 x 20 x 30 x 2 mm</p> <p>6000 mm stock length fixed length</p> <p>Weight in kg/m: Aluminum 0.304</p>		<p>07.097 07.096</p>

Space for your notes

Content

MR 22/MR 28

200 **Components**

204 **Accessories**

226 **Safety-related information**



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

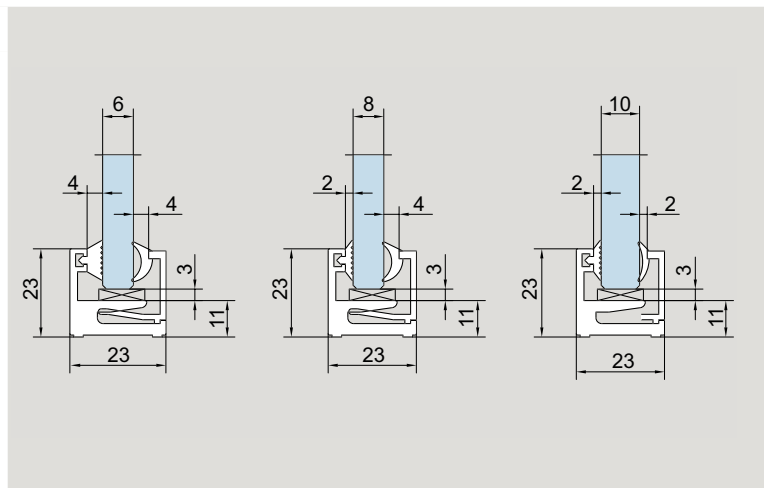
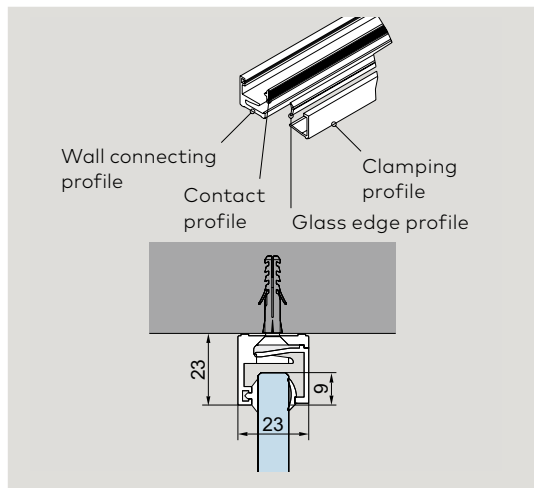
MR 22

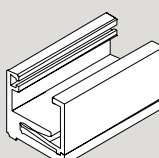
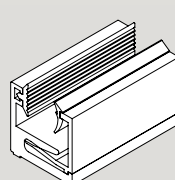
max. glass dimensions:
height: 2500 mm
width: 1000 mm

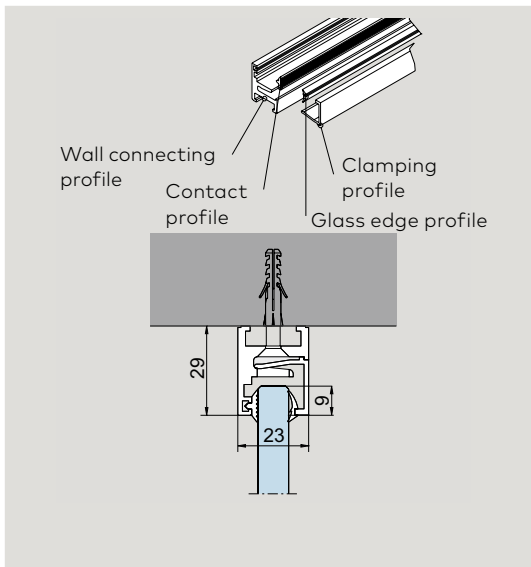
MR 28

max. glass dimensions:
height: 2800 mm
width: 1000 mm

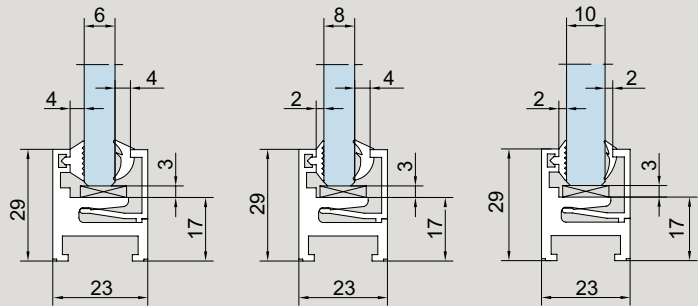
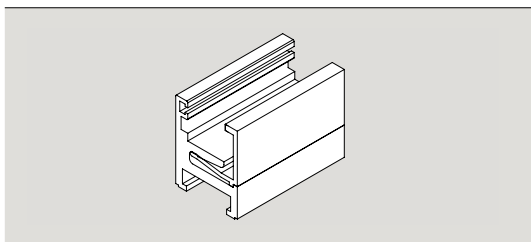
Base profile MR 22



	Features and data	Art. No.
	<p>MR 22 in 6000 mm stock length, without PVC profile</p> <p>Weight in kg/m: Aluminum 0.648</p>	07.240
	<p>MR 22 in fixed length</p> <p>Weight in kg/m: Aluminum 0.648</p>	07.250

Base profile MR 28**Attention:**

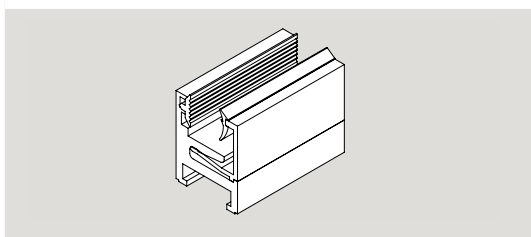
Profiles are only delivered with straight cuts. Allowances in lengths of profiles to ensure producibility of bevel cuts have to be planned by the customer. The georgian bar profile must be prepared in addition on both sides. Please consider installation instruction

**Features and data****Art. No.****MR 28**

in 6000 mm stock length,
without PVC profile

07.241

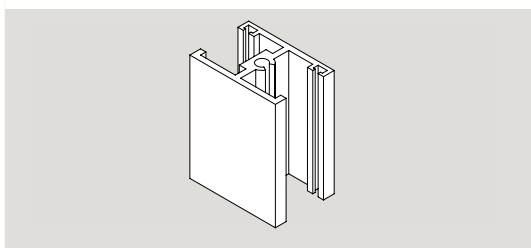
Weight in kg/m:
Aluminum 0.802

**MR 28**

in fixed length

07.251

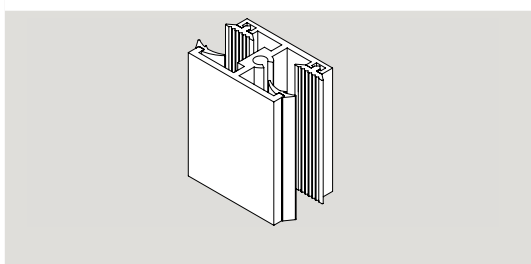
Weight in kg/m:
Aluminum 0.802

**Georgian bar profile MR 28**

in 6000 mm stock length,
without PVC profile

07.242

Weight in kg/m:
Aluminum 0.542

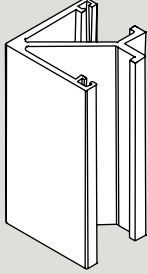
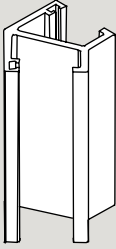
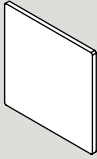
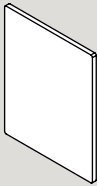
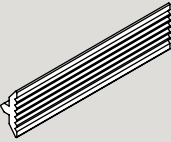
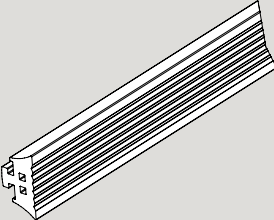
**Georgian bar profile MR 28**

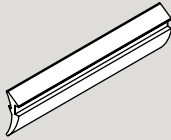
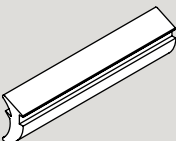
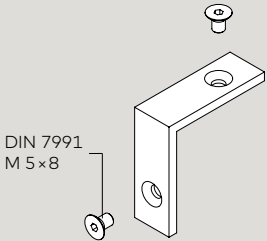
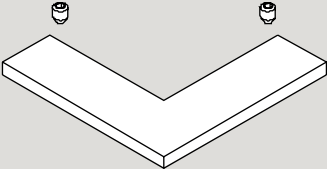
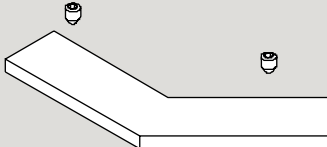
in fixed length

07.252

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

	Product description	Art. No.
	MR 28 georgian bar profile 90° in 6000 mm stock length Weight in kg/m: Aluminum 0.598	07.258
	MR 28 georgian bar profile 135° in 6000 mm stock length Weight in kg/m: Aluminum 0.466	07.259
	End mounted plate MR 22 Weight in kg/pc: Aluminum 0.002	07.245
	End mounted plate MR 28 Weight in kg/pc: Aluminum 0.002	07.246
	Contact profile 2 mm thick, grey fixed length stock length 50 m Weight in kg/m: PVC 0.023	07.255 07.265
	Contact profile 4 mm thick, grey fixed length stock length 50 m Weight in kg/m: PVC 0.037	07.256 07.266

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

Content

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



Accessories

Perfection in detail

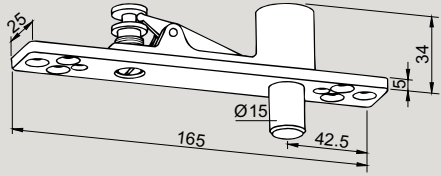
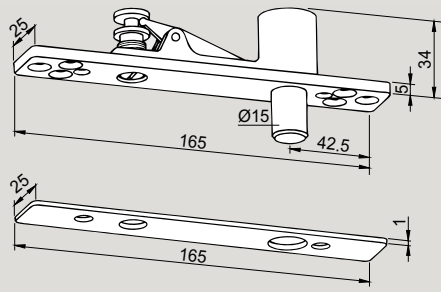
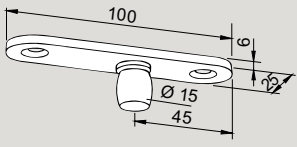
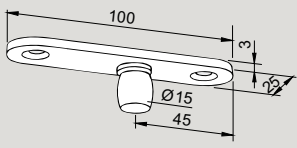
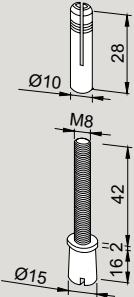
Original accessories for patch fittings, door rails and locks, matched to the DORMA-Glas product range, are available.

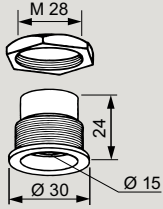
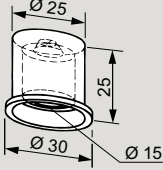
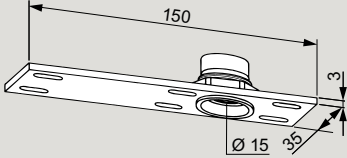
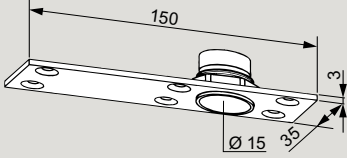
They ideally complement the range of DORMA-Glas hardware to optimise the technical excellence and cost effectiveness of toughened glass systems of all types.

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.

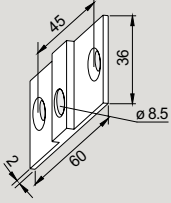
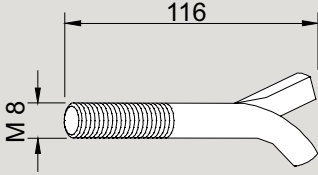
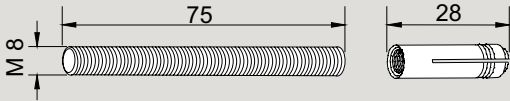
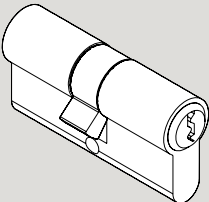
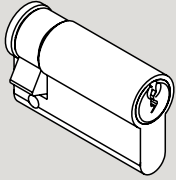
	Product description	Art. No.
	<p>PT 21 frame portion top centre with removable pin</p> <p>Weight in kg: 0.335</p> <p>15 mm Ø</p>	<p>01.117</p>
	<p>PT 21 frame portion top centre with removable pin, with cover plate</p> <p>Weight in kg: 0.345</p> <p>15 mm Ø</p>	<p>01.118</p>
	<p>PT 24 pivot with fixing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

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

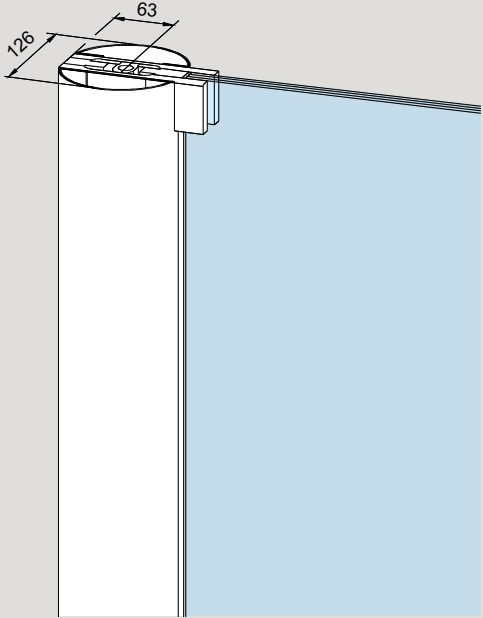
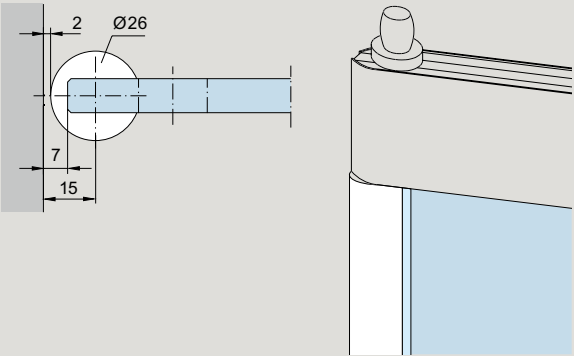
Floor bearing, lock keeper plate, floor socket for UNIVERSAL, BEYOND, EA, TP/TA, MANET

	Product description	Art. No.
	Floor pivot bearing 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	01.106
	Floor pivot bearing with round pivot 14 mm Ø and pin 24 mm Ø max. door weight 100 kg Weight in kg: 0.078	01.107
	Floor bearing with profile spindle (longer spindle on request), max. door weight 200 kg Stainless steel, max. door weight 200 kg Weight in kg: 0.254	04.602 04.603
	Floor pivot bearing for damp environments, with insert for UNIVERSAL PT 10 for mounting onto floor surface max. door weight 80 kg Weight in kg: 0.195	01.137
	Lock keeper plate, stainless steel, two parts, adjustable ± 5 mm Weight in kg: 0.048	05.190
	Floor socket, zinc coated brass for lock bolt Weight in kg: 0.020	05.192
	Floor socket, aluminum, with spring and plastic stopper, dirt protection Weight in kg: 0.026	05.193
	Eccentric socket, eccentric, zinc coated brass, with adjustable plastic socket insert Weight in kg: 0.020	05.194
05.192 05.193 05.194		

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

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

Profiles for UNIVERSAL

	Product description	Art. No.
	<p>Aluminum round profile 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"> • Panel height (max. 2500 mm, higher dim. on request) • Required preparation of the profile for top and bottom fittings <p>Fixed length 03.380 Stock length 6000 mm 03.381 Stock length 3000 mm 03.382</p> <p>Weight in kg/m: Aluminum 4.744</p>	
	<p>Radiused edging strip (only for 10 mm TSG) 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 4500 mm 01.230 (specify height) Length: 2250 mm 01.231</p> <p>Weight in kg/m: 0.408</p>	

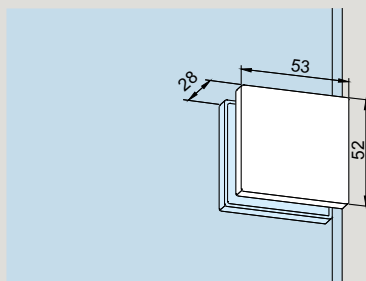
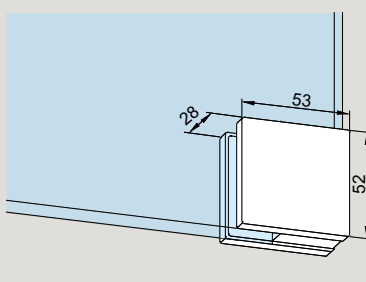
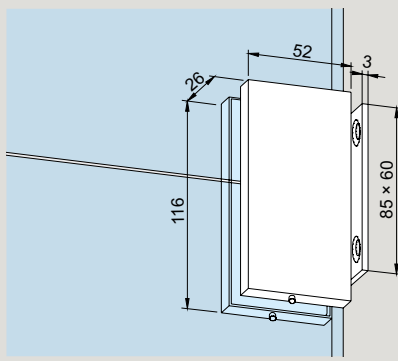
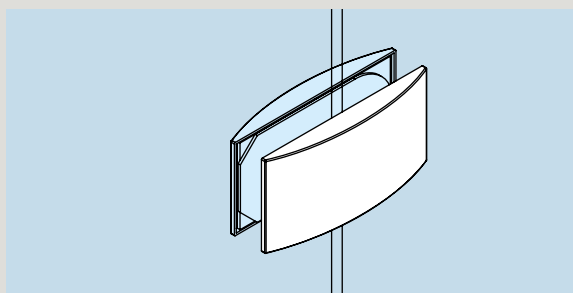
Gasket sets for UNIVERSAL

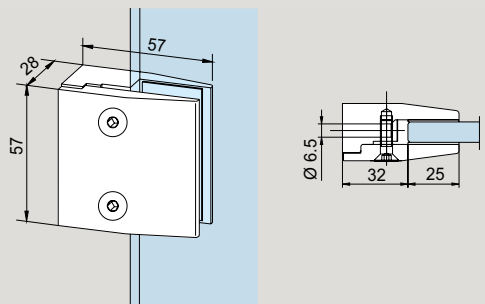
Product description	Art. No.	Product description	Art. No.
Gasket sets for 12 mm glass thickness		Gasket sets for 8 mm glass thickness	
for PT10/20/22/29/30/GK30	03.900	for PT10/20/22/29/30/GK30	03.920
for US 10/20/GK50	03.901	for US 10/20/GK50	03.921
for PT40/41/42/GK40/41/42	03.902	for PT40/41/42/GK40/41/42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

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

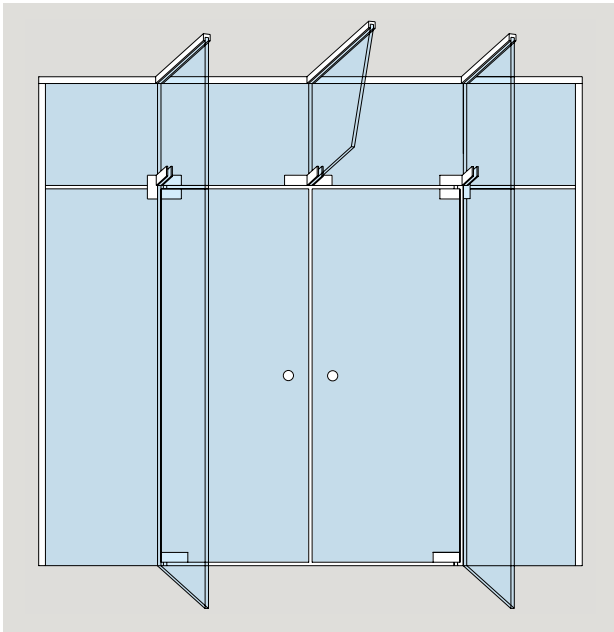
Space for your notes

Clamping fittings

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

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

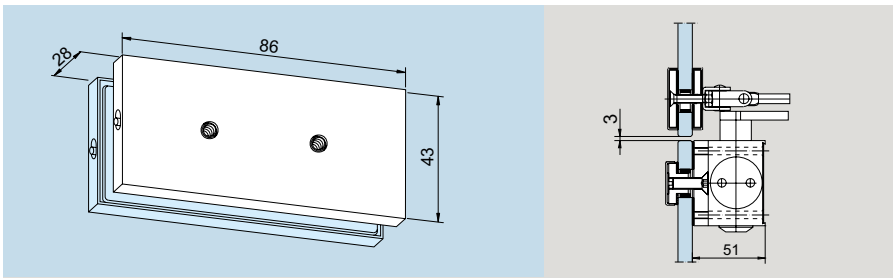
Usage and assembly of fins



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

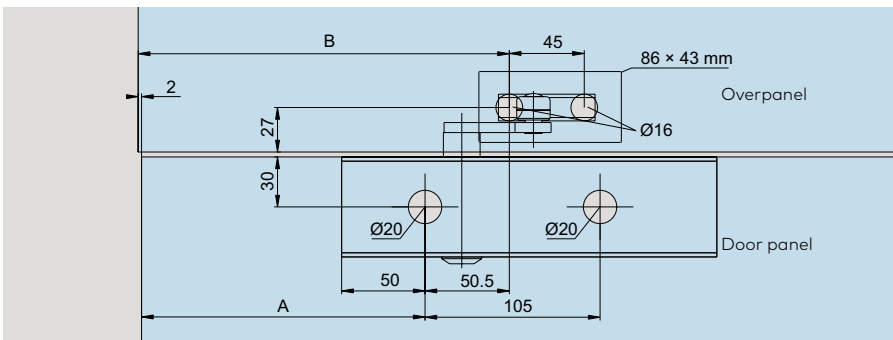


Fixing plate

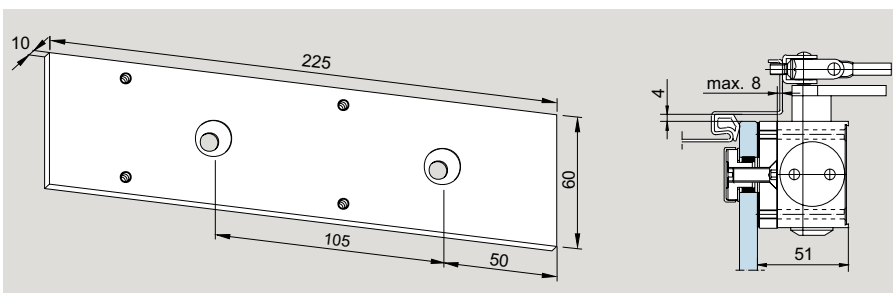
for dormakaba TS 73 V,
closer arm for overpanel

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

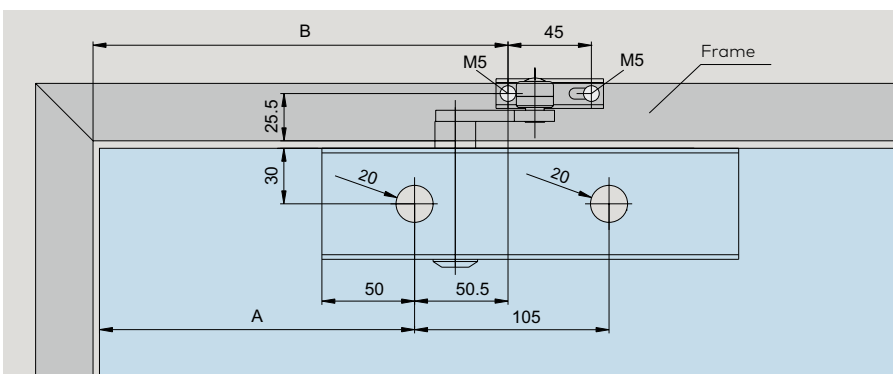


Fixing plate

225 mm,
for dormakaba TS 73 V

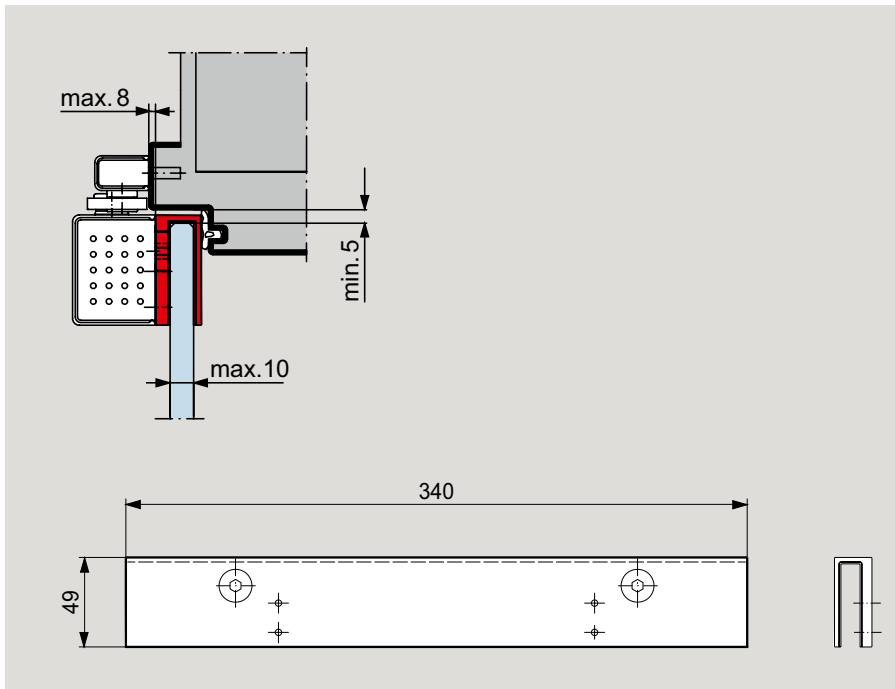
Art. No. 12.335

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.

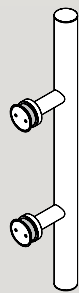
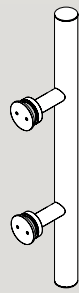


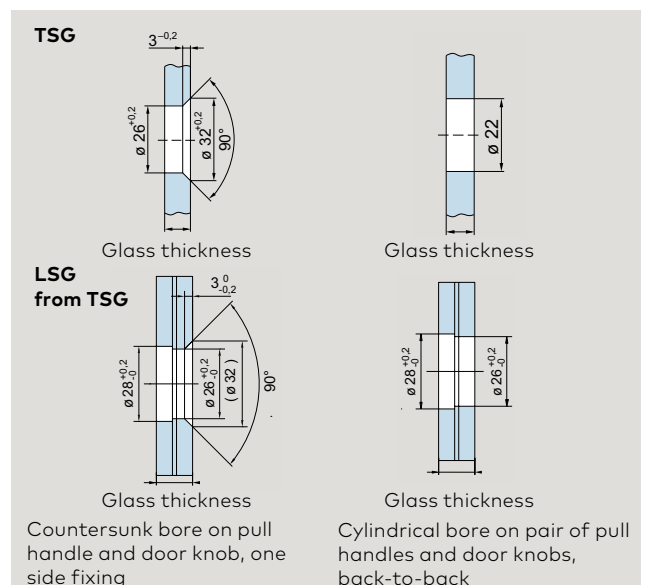
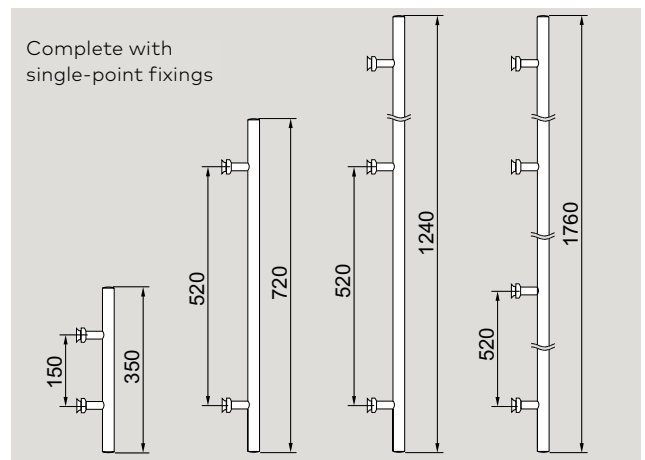
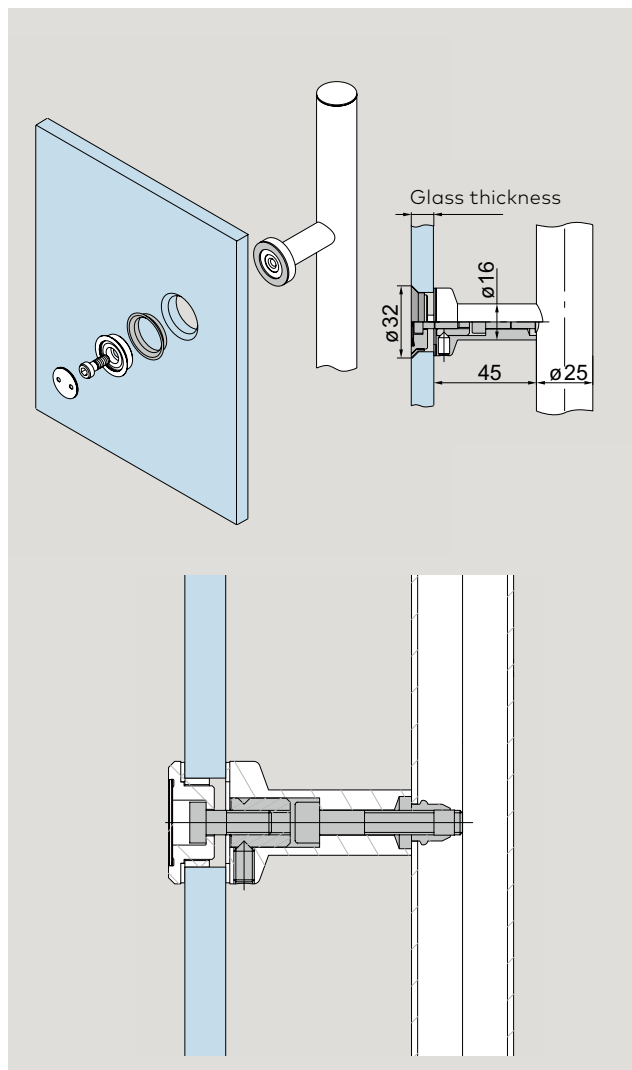
Pull handle pairs

	Product description	Glass thickness	Art. No.
	Pair of handle bars satin stainless steel length 350 mm, 2 fixing points, weight in kg: 1.254 material 1.4305 do., material 1.4404	8/10/12	21.267* 21.247
	Pair of handle bars aluminum length 350 mm, 2 fixing points, weight in kg: aluminum 1.326	8/10/12	03.400
	Pair of handle bars satin stainless steel length 720 mm, 2 fixing points, weight in kg: 1.947 material 1.4305 do., material 1.4404	8/10/12	21.270* 21.250
	Pair of handle bars aluminum length 720 mm, 2 fixing points, weight in kg: aluminum 2.423	8/10/12	03.402
	Pair of handle bars satin stainless steel length 1240 mm, 3 fixing points, weight in kg: 3.400 material 1.4305 do., material 1.4404	8/10/12	21.273* 21.253
	Pair of handle bars satin stainless steel length 1760 mm, 4 fixing points, weight in kg: 5.000 material 1.4305 do., material 1.4404	8/10/12	21.276* 21.256

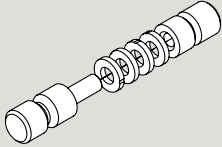
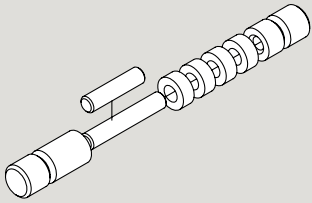
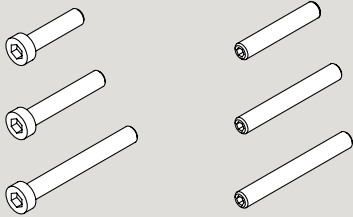
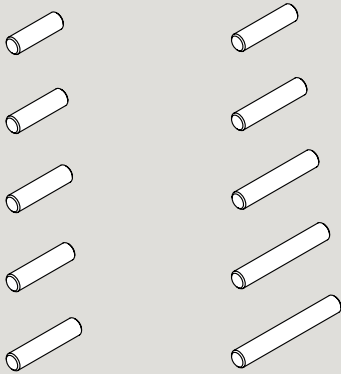
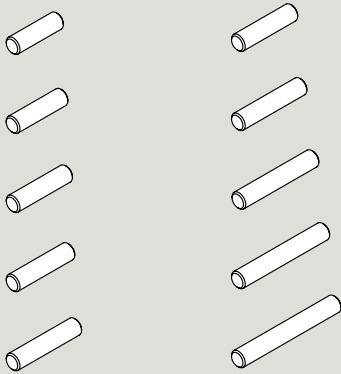
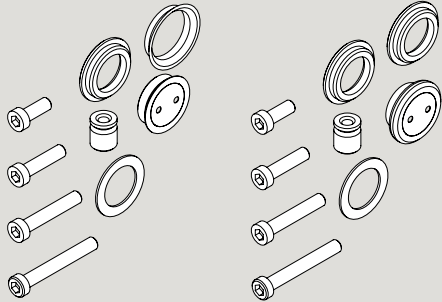
* Conversion sets for back to back pull handles for timber doors resp. other glass thicknesses see under "Spacing adjustment for pull handles and door knobs", page 221.

Pull handles single

	Product description	Glass thickness	Art. No.	
	Pull handles with single-point fixings, countersunk stainless steel Pull handle 350 mm with 2 fixings, material 1.4305 do., material 1.4404 Pull handle 720 mm with 2 fixings, material 1.4305 do., material 1.4404 Pull handle 1240 mm with 3 fixings, material 1.4305 do., material 1.4404 Pull handle 1760 mm with 4 fixings, material 1.4305 do., material 1.4404	8/10/12	29.268 29.269 29.271 29.272 29.274 29.275 29.277 29.278	
		Pull handles with single-point fixings, clamping disc Pull handle 350 mm with 2 fixings, material 1.4305 do., material 1.4404 Pull handle 720 mm with 2 fixings, material 1.4305 do., material 1.4404 Pull handle 1240 mm with 3 fixings, material 1.4305 do., material 1.4404 Pull handle 1760 mm with 4 fixings, material 1.4305 do., material 1.4404	8/10/12	21.240 21.241 21.281 21.242 21.243 21.283

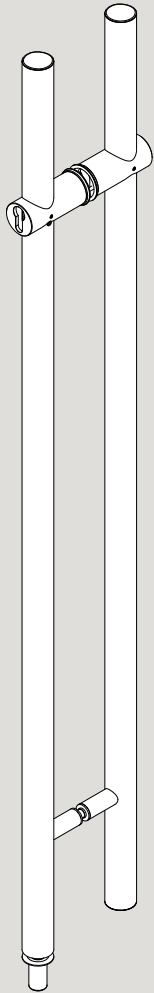


Spacing adjustment for pull handles and door knobs

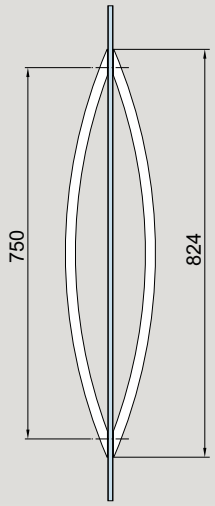
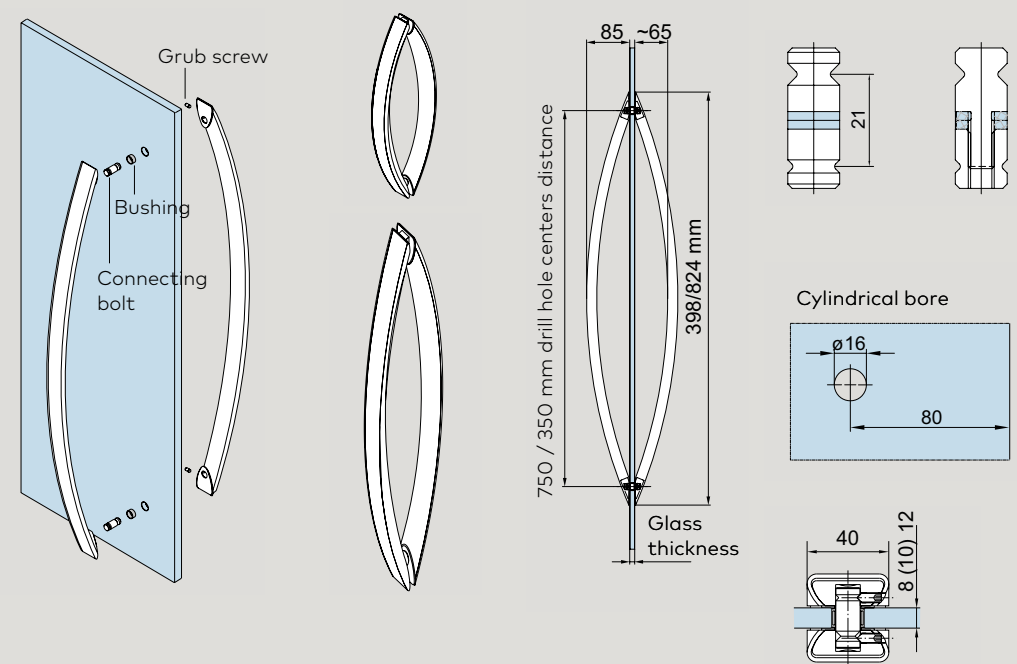
	Product description	Door thickness	Art. No.
 <p>Distance washer 2 mm</p>	Conversion set 1 for glass doors, pair of pull handles / knob back-to-back	13.5 – 21.5	21.285
	without distance washer	13.5	
	with 1 distance washer	15	
	with 2 distance washers	17.5	
	with 3 distance washers	19	
with 4 distance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

*Not suitable for Arcos pull handles 26.500 / 26.510

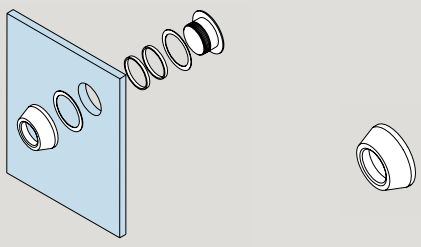
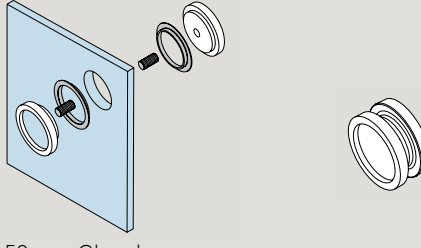
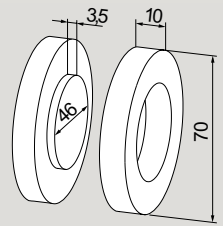
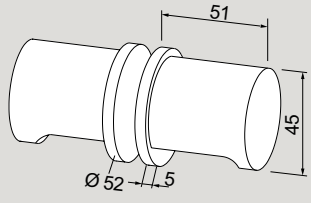
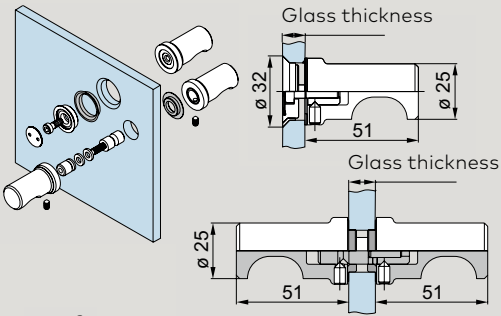
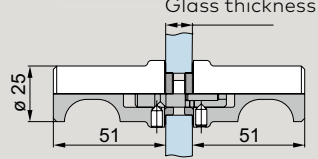
Pair of pull handles

	Product description	Glass thickness	Art. No.
	Pair of stainless steel handlebars, lockable on both sides, prepared for standard PZ, length 1200 mm, incl. floor socket	8 - 17.5	21.580
	Pair of stainless steel handlebars, lockable on one side, prepared for standard PZ, length 1200 mm, incl. floor socket	8 - 17.5	21.581
<p>Further information, e.g. on the required profile cylinder length, can be found in our detail on the sheets 29-115 to 29-116.</p>			

Arcos pull handle

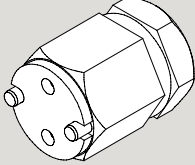
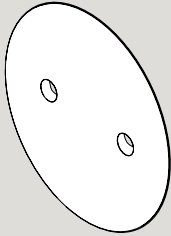
	Product description	Glass thickness	Art. No.
	<p>Arcos pair of pull handle incl. connecting bolt Aluminium, stainless steel look</p> <p>Pull handle 350 mm with 2 fixings Pull handle 750 mm with 2 fixings</p>	<p>8/10/12</p>	<p>26.500 26.510</p>
			

Recessed pull grips and door knobs

	Product description	Glass thickness	Art. No.
 <p>Ø 38 mm Glass bore</p>	<p>Recessed pull grip Ø 50 mm</p>	8/10/12	21.290
 <p>Ø 50 mm Glass bore</p>	<p>Recessed pull grip Ø 60 mm</p> <p>Recessed pull grip with grip hole Ø 60 mm</p>	8/10/12 8 10 12	21.291 21.292 21.293 21.294
 <p>Ø 50 mm Glass bore</p>	<p>Recessed pull grip aluminum to be glued onto the glass Weight in kg: 0.072</p>		07.200
 <p>Ø 20 mm Glass bore</p>	<p>Door knob, aluminum Weight in kg: 0.400</p>		07.201
 <p>Single-point fixing clamping disc (Ø 22 mm)</p> <p>(Glass preparation please see under "pull handles single", page 242)</p>	<p>Door knob one side fixing Door knob with single-point fixing, countersunk Door knob with single-point fixings, clamping disc</p>	8/10/12	21.422 21.426
	<p>Door knob back-to-back</p>	8/10/12	21.423

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.
	Assembling tool for MANET single-point fixing	21.134
	Clip-on cover for single-point fixing with spring, 5 pieces material 1.4305 do.material 1.4404	29.217 29.219

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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WN 05444451532, 01/23, EN
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