



MUNDUS
UNIVERSAL
RP
BEYOND
EA
TP/TA
MANET
Compact/
Concept
SG
Wall connection
profile
MR 22/MR 28

Fittings for Toughened Glass Assemblies

Technical brochure 11/2017

The dormakaba range of fittings

The dormakaba range of fittings 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 dormakaba 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		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	10, 12	8, 10, 12
Max. door weight (kg)	150	200	80	80/110 ⁴⁾
Max. door width (mm)	1,100	1,300	1,000/1,200 ⁴⁾	1,000/1,100 ⁴⁾
Max. door height (mm)	see Matrix for door dimensions, page 10		2,200	3,000 ^{1) 2) 5)}
Glass type	TSG	TSG/ LSG ³⁾	TSG	TSG
Double-action / single-action door	sa/da	sa/da	sa/da	sa
Materials and finishes				
Aluminum, mill finish (Aluminum R 600) (100)				
Aluminum, silver EV1 anodized (similar Eloxal I EV1 / Eloxal II C 0) (101)				●
Aluminum, dark bronze DB 14 anodized (similar Eloxal I DB 14/MC 1003 / Eloxal II C 34) (108)				
Aluminum, similar satin stainless steel anodized (113, 107)			● (107)	● (107)
Aluminum, silver anodized (Silver N 600 ST) (compatible with finish 114) (150)	●	●		
Aluminum special color anodized (199)		●		●
Aluminum special color liquid coated (299)		●		
Aluminum, traffic white powder coated (300)				●
Aluminum, white powder coated (White P 100 SG) (350, RAL 9016)	●	●		
Aluminum, special color powder coated (Standard powder according to RAL) (399)				●
Brass, polished chromed (501)				●
Brass, polished varnished (502)				
Brass, polished (503)				●
Satin stainless steel (Niro S 700 ST) (700)				
Polished stainless steel (Niro S 700 HG) (701)				
Satin stainless steel (750)	●	●		
Polished stainless steel (751)	●	●		
Page	6		100	110

Door rails and locks ideally complement the dormakaba 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	MANET Compact	MANET Concept	SG	Wall connection profile	MR 22/ MR 28
●		●	●	●	
●	●	●	●	●	●
●	●	●	●	●	
○		●	●		
●	●	●	○	○	
●	○	○	○		
8, 10, 12, 13,5, 17, 19, 21	10, 12	10-15,5	8, 10, 12	8, 10, 12, 12,7, 13,5, 17, 19	8, 10
150*	80	100		45 kg/m	
1,400 ⁵⁾ *	1,200	1,200			
3,000 ¹⁾²⁾⁵⁾	2,500 ¹⁾²⁾⁵⁾	3,000 ⁵⁾	3,000 ¹⁾²⁾⁵⁾	3,000 ¹⁾²⁾⁵⁾	3,000 ¹⁾²⁾⁵⁾
TSG	TSG	TSG/LSG ³⁾	TSG	TSG	TSG
sa/da	sa/da	sa/da			
●				●	
●			●	●	●
			●	●	●
●					
			●	●	
●			●		
				●	
●	●	●		●	
●				●	
124	154	160	188	210	216

1) For door heights up to 2500 mm
For doors with a height of more than 2,500 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 2/3 door height

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



UNIVERSAL

The dormakaba glass range of fittings

The dormakaba range of fittings 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 dormakaba 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	Patch fittings UNIVERSAL/Arcos	
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)	8, 10, 12 ⁶⁾	8, 10, 12
Glass thickness (mm), for UNIVERSAL with 15 mm pivot point	8, 10	8, 10
Max. door weight (kg)	130 ²⁾	130 ²⁾
Max. door weight (kg) for UNIVERSAL with 15 mm pivot point	80	
Max. door width (mm)	1,200 ²⁾	1,200 ²⁾
Max. door height (mm)	3,000 ¹⁾²⁾⁵⁾	3,000 ¹⁾²⁾⁵⁾
Glass type	TSG	TSG
Double action / Single action door	sa/da	sa/da
Materials and finishes		
Aluminum, mill finish (Aluminum R 600) (100)		
Aluminum, silver EV1 anodized (similar Eloxal I EV1 / Eloxal II C 0) (101)	●	
Aluminum, dark bronze DB 14 anodized (similar Eloxal I DB 14/MC 1003 / Eloxal II C 34) (108)	●	
Aluminum, similar satin stainless steel anodized (for profile material) (similar Eloxal II C 31) (113, 107)		
Aluminum EV1-Deco anodized (compatible with finish 150) (114)		●
Aluminum special color anodized (199)	●	●
Aluminum, traffic white powder coated (300)		
Aluminum, special color powder coated (Standard powder according to RAL) (399)	●	●
Brass, polished chromed (501)	●	
Brass, polished varnished (502)	●	
Brass, polished (503)	●	
Satin stainless steel (Niro S 700 ST) (700)	●	●
Polished stainless steel (Niro S 700 HG) (701)	●	●
Page	48	80

Door rails and locks ideally complement the dormakaba 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 dormakaba SG meets various requirements for function, safety and appearance.

- 1) For door heights up to 2,500 mm
For doors with a height of more than 2,500 mm we have to keep additional conditions/limits:
 - Glass thickness ≥ 10 mm
 - + Usage of a handle bar with 3 connection points in minimum and a minimum height of 2/3 door height
- 2) 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.
- 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

- Standard

UNIVERSAL ... as the name says

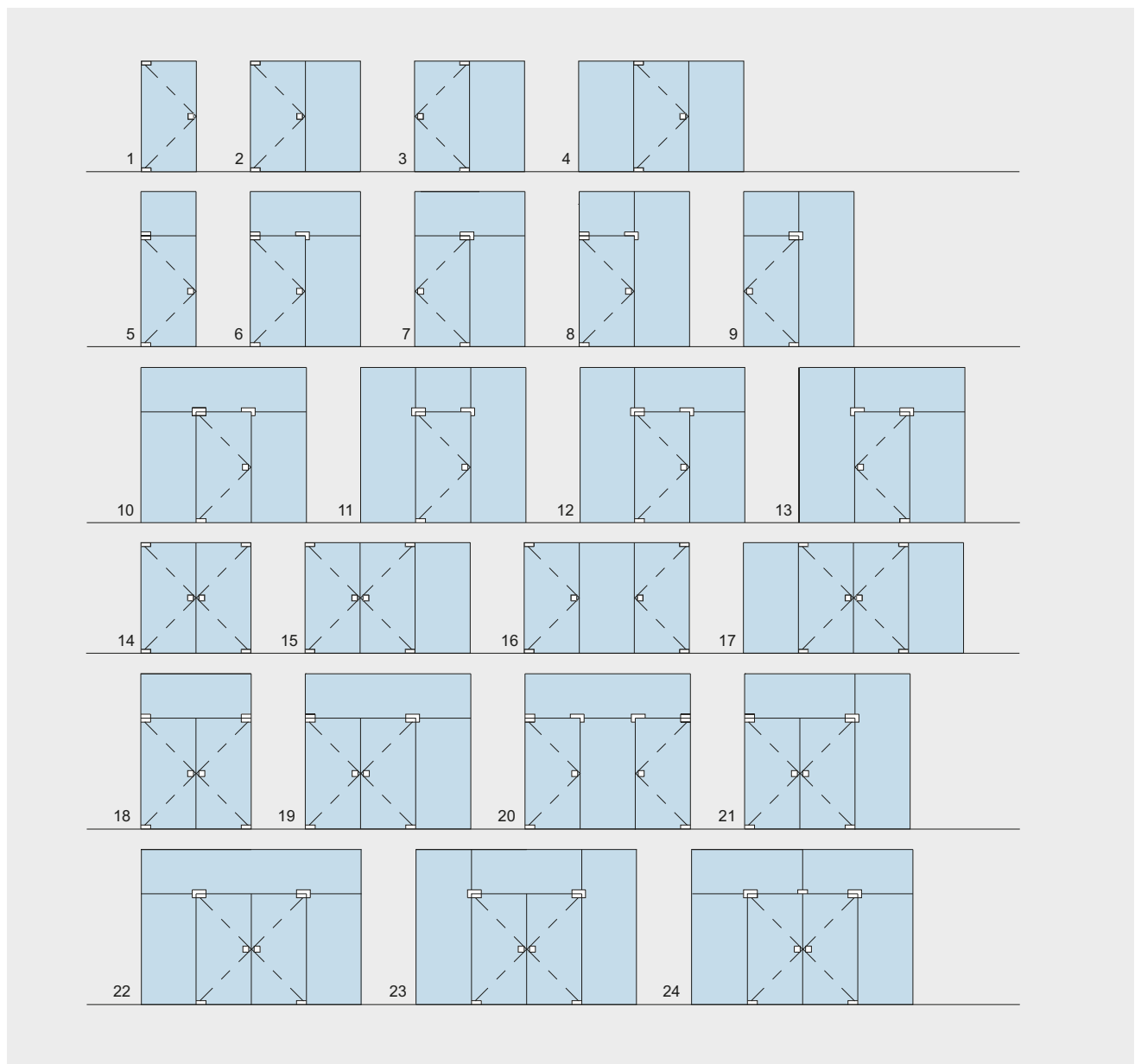
With its broad spectrum of basic types and variants, the UNIVERSAL range of patch fittings enables the realisation in toughened glass of almost any conceivable design. Toughened glass assemblies can be provided with fixed parts in widely differing arrangements – with corner fittings or fin fittings at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

Easy glass preparation, secure fixing

dormakaba 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 57) doors can be built with a constant air gap of only 4 mm.

For information regarding patch fittings UNIVERSAL with 15 mm pivot point for pinch free doors see page 62 and following pages.

Reliability built in

Quality materials and thorough workmanship mean that UNIVERSAL fittings have the features necessary to meet the most demanding of specifications. The fittings are designed to cope with large and heavy doors up to a maximum weight of 130 kgs*: for instance, a door blade 3,000 mm high by 1,200 mm* wide, using 12 mm glass is quite possible.

For heavier and wider doors up to a maximum of 150 kg and max. 1,400 mm and for high frequented doors, rails with reinforced straps are available.

Matching range of locks

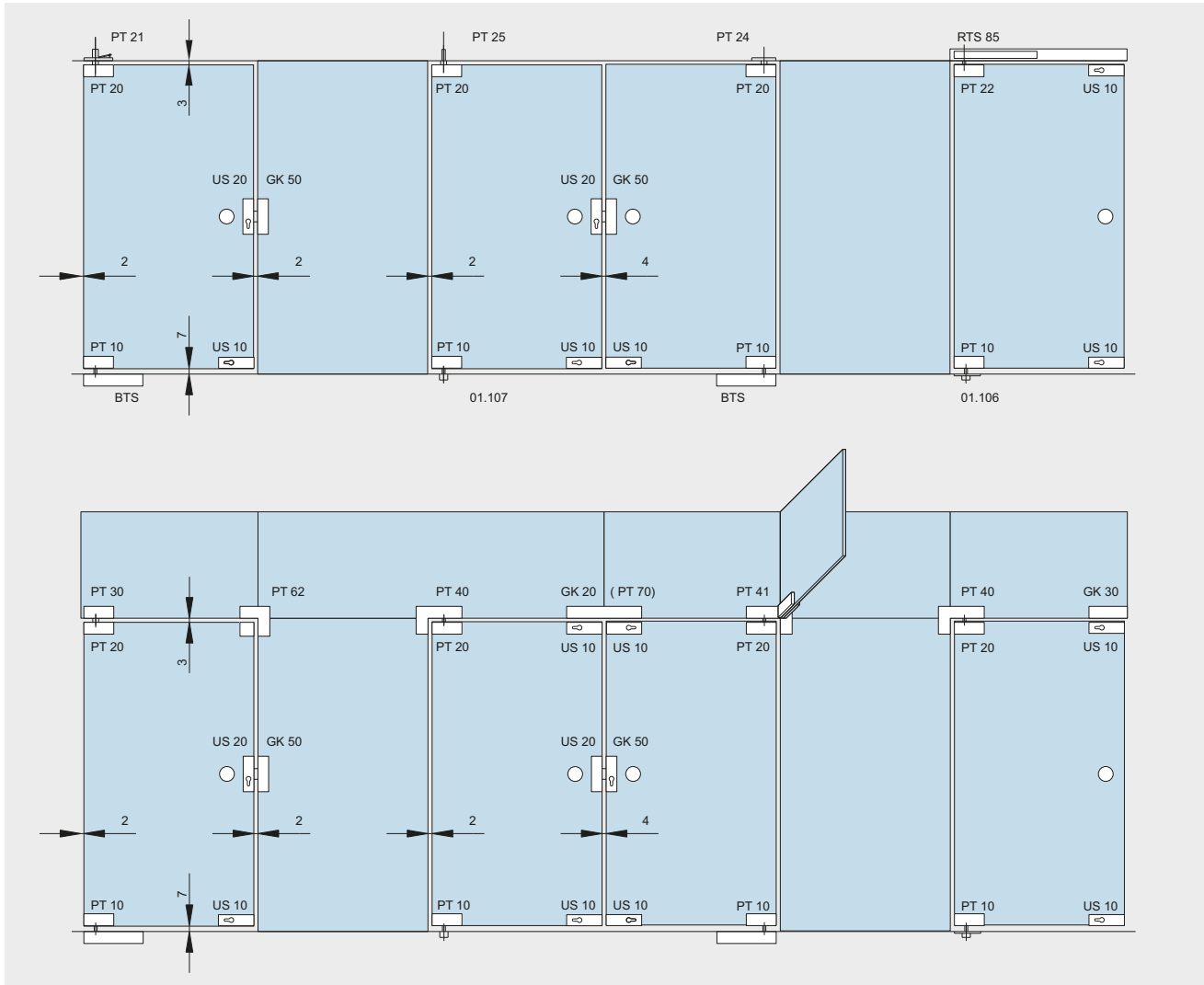
The UNIVERSAL range includes every type of accessory, and of course, a variety of locks and strike boxes in a matching design concept, giving the designer plenty of choice from the options available.

Short delivery times

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

Type section

Toughened glass assemblies with fittings (55/65 mm pivot point) and locks.
All standard assembly types see page 44.



BTS = 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: 130 kg*
 max. door width: 1,200 mm**

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

* For door heights up to 2,500 mm

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

- Glass thickness ≥ 10 mm
- + Usage of a handle bar with 3 connection points in minimum and a minimum height of 2/3 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)*

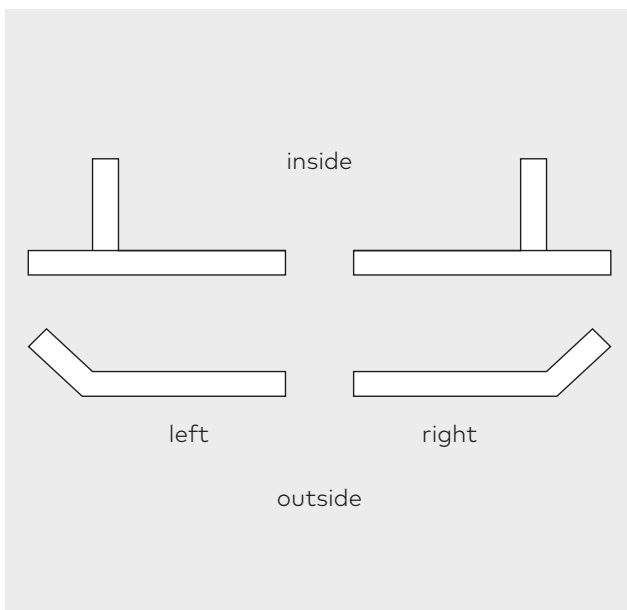
Screws M 6: 15 Nm (5 mm)*

Screws M 8: 20 Nm (5 mm)*

*Allan key size

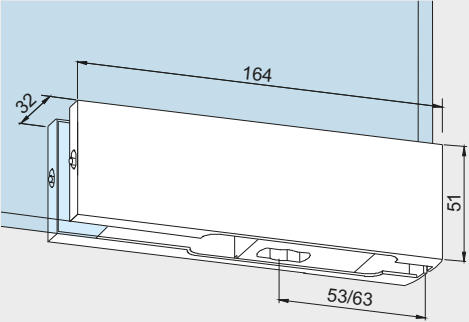
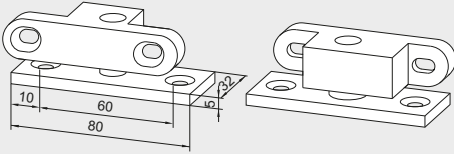
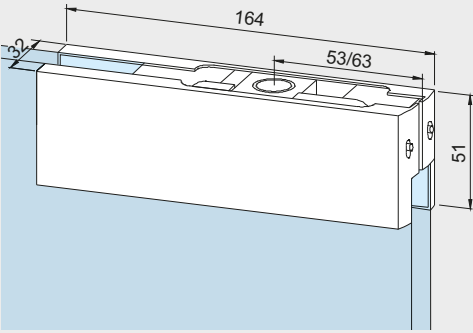
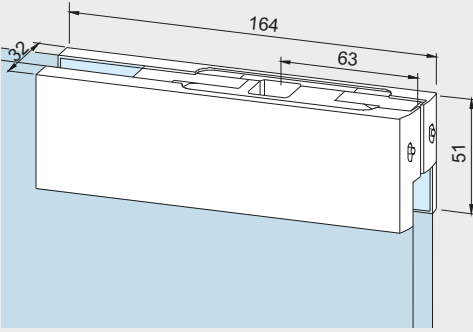
Please note: If angle fittings or fin fittings are used:

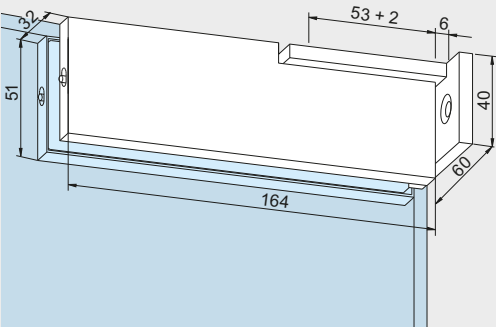
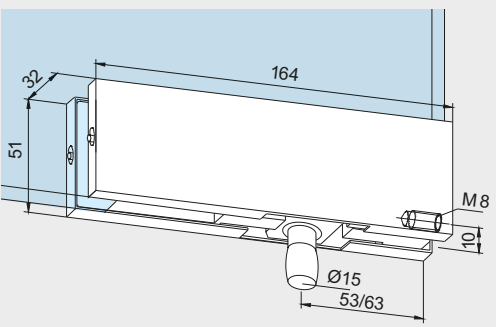
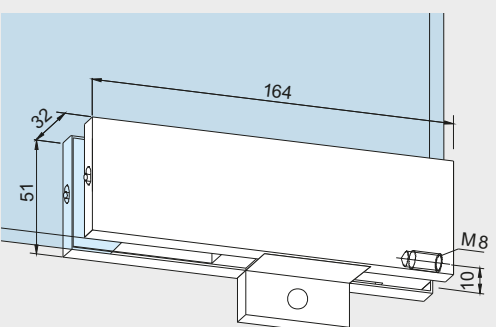
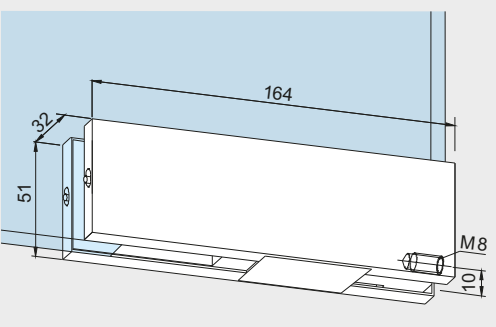
"Left" or "Right" have to be determined in any case by view from outside and above.

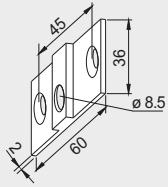
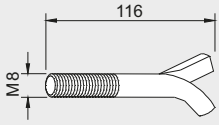

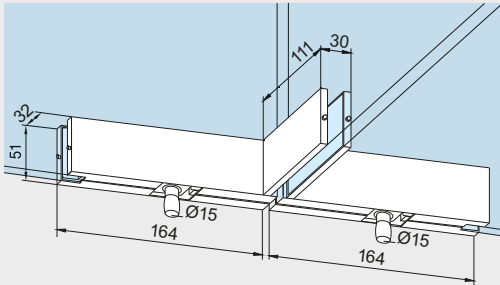
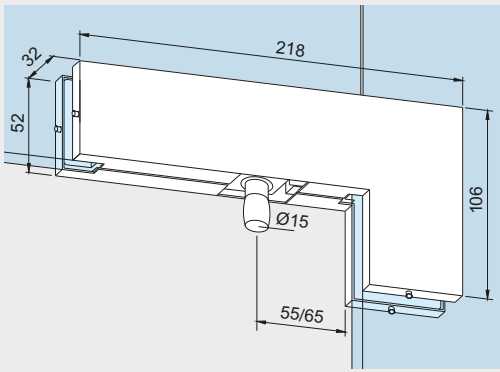


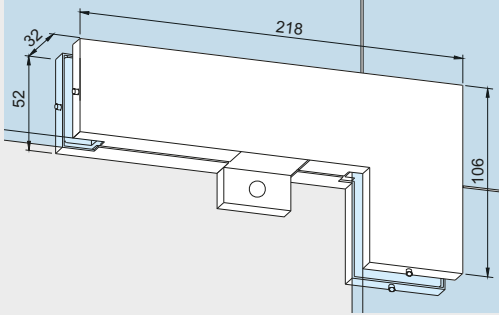
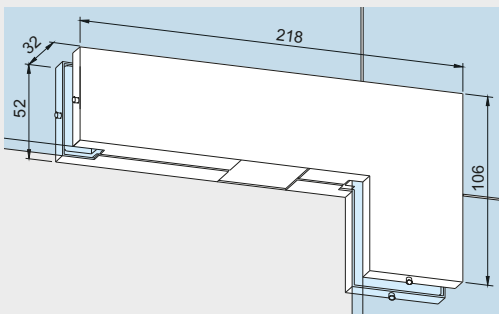
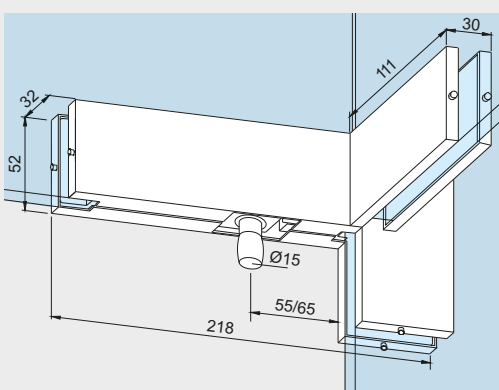
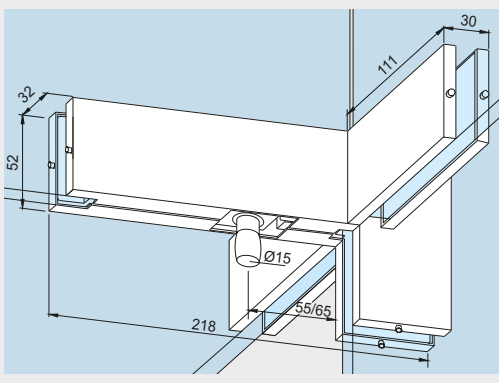
Patch fittings

Shown with 10 mm glass. When used with 8 and 12 mm glass the measurements change accordingly. Accessories see page 222 and following.

	Product description	Glass thickness	Art. No.
	PT 10 UNIVERSAL Bottom patch with insert for DORMA floor spring spindle, or round pivot 14 mm Ø		03.100
	only in satin stainless steel (700)	12 mm	03.860 not illustrated
	Please specify glass thickness with order. Weight in kg: Aluminum 0.564 Brass 0.680 Stainless steel 0.662	15, 19 mm	03.280
	Floor pivot bearing for damp environments, with insert for PT 10 UNIVERSAL without floor recess , max. door weight 80 kg		01.137
	Weight in kg: 0.195		
	PT 20 UNIVERSAL Top patch with plastic socket for top pivot 15 mm Ø		03.110
	only in satin stainless steel (700)	12 mm	03.861 not illustrated
	Please specify glass thickness with order. Weight in kg: Aluminum 0.477 Brass 0.593 Stainless steel 0.575	15, 19 mm	03.281
	PT 22 UNIVERSAL Top patch with insert for DORMA RTS transom closer		03.112
	only in satin stainless steel (700)	12 mm	03.862 not illustrated
	Weight in kg: Aluminum 0.578 Brass 0.695 Stainless steel 0.677		

	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: 1,000 mm max. door weight: 70 kg</p> <p>Weight in kg: Aluminum 0.544 Brass 0.692</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>only in satin stainless steel (700)</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.528 Brass 0.654 Stainless steel 0.636</p>	<p>12 mm 15, 19 mm</p>	<p>03.120 03.863 not illustrated 03.282</p>
	<p>PT 30 UNIVERSAL Overpanel patch with stop insert</p> <p>only in satin stainless steel (700)</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.528 Brass 0.654 Stainless steel 0.580</p>	<p>12 mm 15, 19 mm</p>	<p>03.420 03.873 not illustrated 03.482</p>
	<p>PT 30 UNIVERSAL Overpanel patch with blank insert</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.519 Brass 0.645 Stainless steel 0.571</p>	<p>15, 19 mm</p>	<p>03.421 03.484 not illustrated</p>

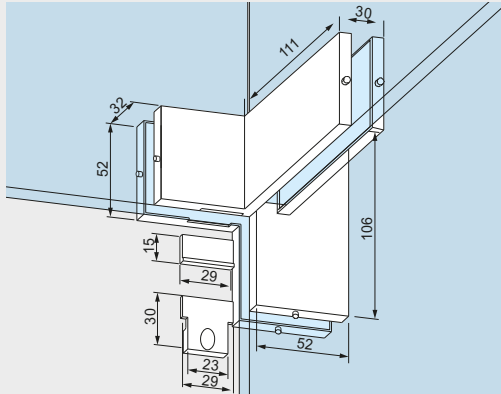
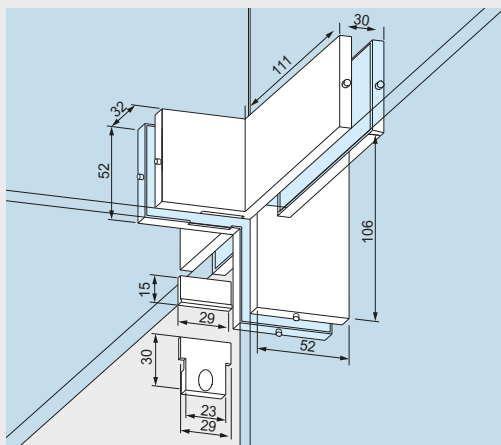
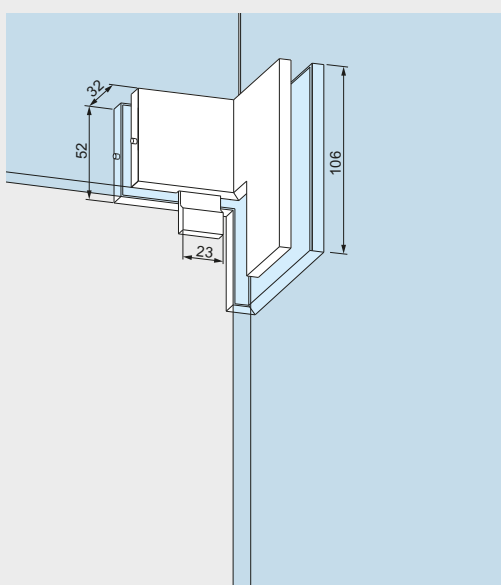
	Product description	Glass thickness	Art. No.
	<p>Fixing plate for overpanel patch PT 30 UNIVERSAL</p> <p>Weight in kg: Aluminum 0.016 Brass 0.038</p> <p>Stainless steel not available, satin chrome on brass supplied.</p>		03.128
	<p>Wall anchor with thread M 8 for overpanel patch PT 30 UNIVERSAL</p> <p>Weight in kg: 0.040</p>		01.133
	<p>Threaded rod M 8 with plug for overpanel patch PT 30 UNIVERSAL</p> <p>Weight in kg: 0.032</p>		01.134
	<p>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.</p> <p>Weight in kg: Aluminum 1.299 Stainless steel 1.576</p>		03.160
	<p>PT 40 UNIVERSAL Patch for overpanel and sidelight with pivot 15 mm Ø</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.755 Brass 0.958 Stainless steel 0.937</p>	15, 19 mm	03.283 not illustrated

	Product description	Glass thickness	Art. No.
	<p>PT 40 UNIVERSAL Patch for overpanel and sidelight with stop insert</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.755 Brass 0.958 Stainless steel 0.937</p>	<p>15, 19 mm</p>	<p>03.440</p> <p>03.483 not illustrated</p>
	<p>PT 40 UNIVERSAL Patch for overpanel and sidelight with blank insert</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.746 Brass 0.949 Stainless steel 0.928</p>	<p>15, 19 mm</p>	<p>03.441</p> <p>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>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>*03.162/03.163</p> <p>*03.262/03.263 not illustrated</p> <p>*03.264/03.265 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>03.161</p>

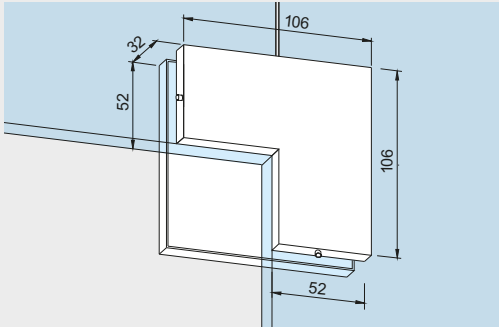
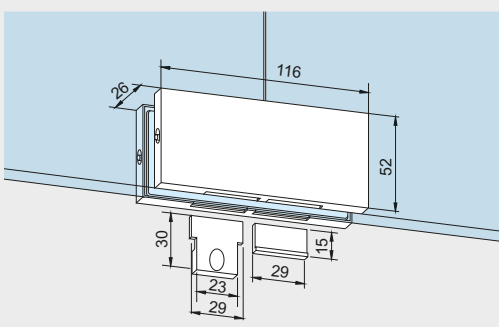
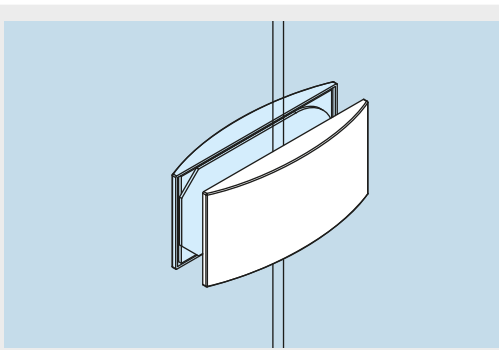
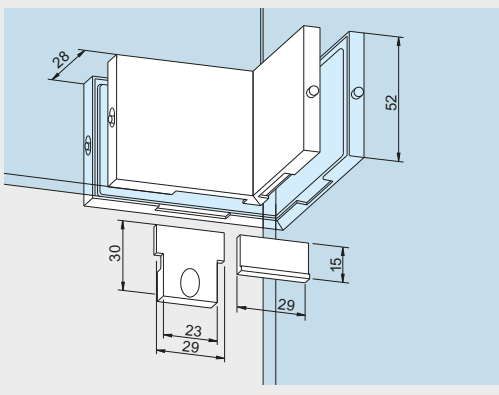
* Left hand fin (illustration shows left hand) / right hand fin.
 Left or right hand are determined by view from outside.

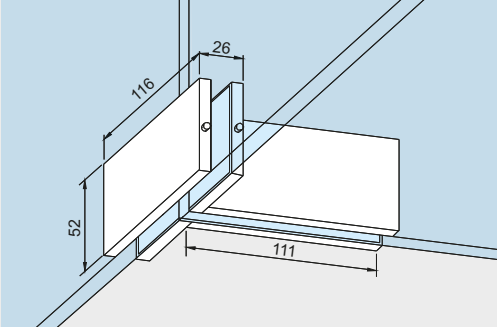
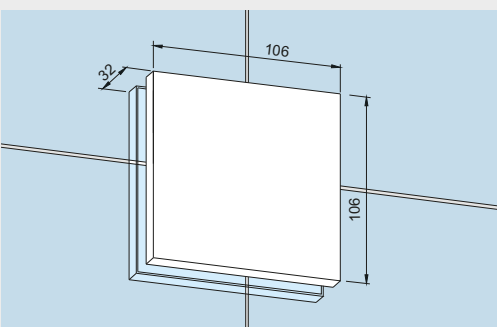
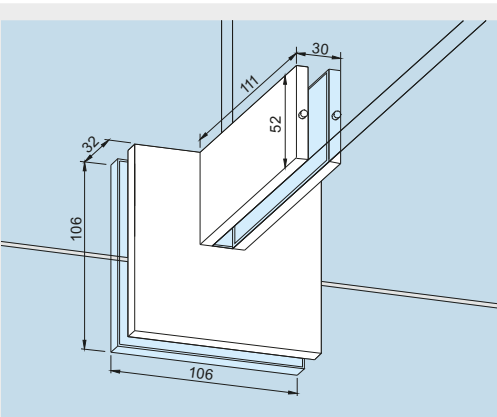
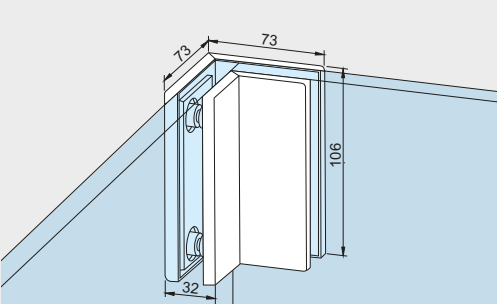
	Product description	Glass thickness	Art. No.
	<p>PT 41 UNIVERSAL Patch for overpanel and sidelight, with fin fitting inside, with pivot 15 mm Ø angle 135° – 179°</p> <p>Glass preparation on request, please send your drawing.</p> <p>Weight in kg: Aluminum 1.200 Stainless steel 1.522</p>		*03.168/03.169
	<p>PT 42 UNIVERSAL Overpanel patch for single action doors with angled connector inside, pivot 15 mm, angle 90°</p>		*03.164/03.165
	<p>PT 42 UNIVERSAL Overpanel patch for double or single action doors with angled connector inside, pivot 15 mm, angle 135°</p> <p>angle 105°–134° / 136°–179° (Glass preparation on request)</p> <p>Weight in kg: Aluminum 0.882 Stainless steel 1.059</p>		*03.464/03.465
	<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>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.343 Brass 0.461 Stainless steel 0.436</p>	15, 19 mm	03.150 03.452 not illustrated

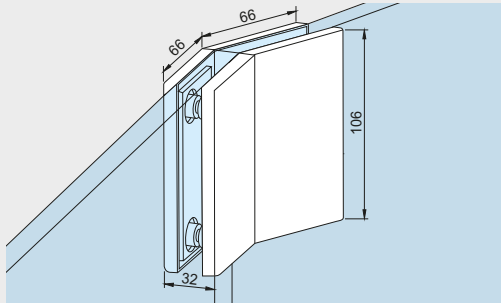
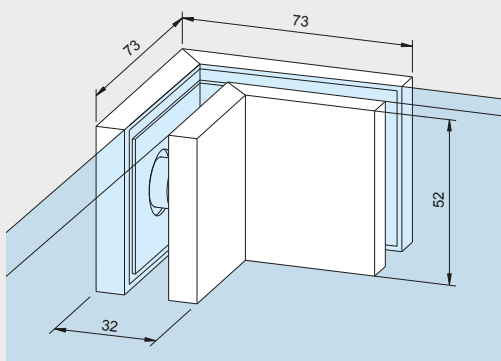
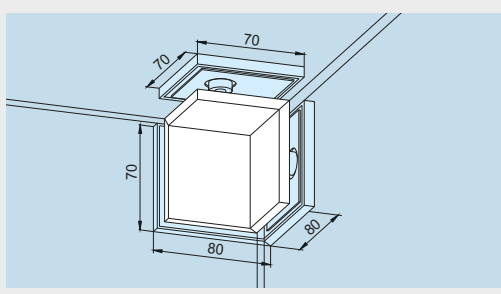
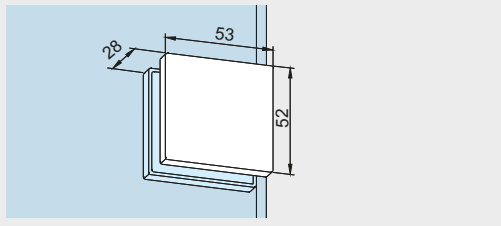
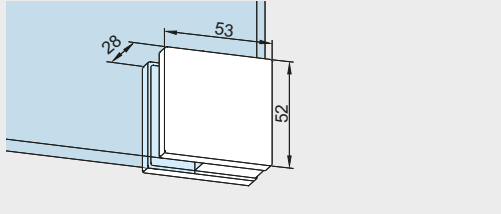
* Left hand fin (illustration shows left hand) / right hand fin.
 Left or right hand are determined by view from outside.

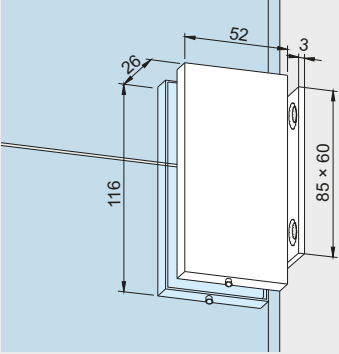
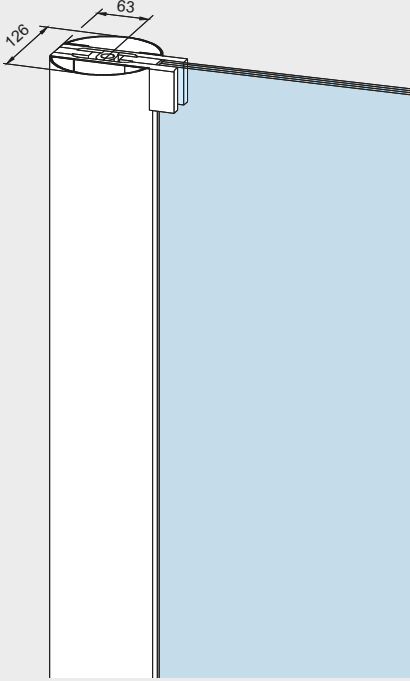
	Product description	Glass thickness	Art. No.
	<p>PT 60/61 UNIVERSAL Connector for overpanel and sidelight, for double or single action doors, with fin fitting inside, with one stop insert and two blank inserts</p> <p>Also suitable for 12 mm glass thickness.</p> <p>Weight in kg: Aluminum 0.448 Stainless steel 0.600</p>		*03.158/03.157
	<p>PT 60/61 UNIVERSAL Connector for overpanel and sidelight, for double or single action doors, with fin fitting on both sides, with one stop insert and two blank inserts</p> <p>Also suitable for 12 mm glass thickness.</p> <p>Weight in kg: Aluminum 0.645 Stainless steel 0.860</p>		03.159
	<p>PT 60/61 UNIVERSAL Connector for overpanel and sidelight for single action doors, with stop inside, angle 90°</p> <p>Weight in kg: Aluminum 0.251 Stainless steel 0.344</p> <p>PT 60/61 UNIVERSAL for double or single action doors, with one stop insert and two blank inserts, angle 135°</p> <p>angle 105°–134° / 136°–179° (specify angle with order)</p> <p>Weight in kg: Aluminum 0.343 Stainless steel 0.435</p> <p>Also suitable for 12 mm glass thickness.</p> <p>Glass preparation on request.</p>		*03.454/03.455 *03.450/03.451 not illustrated *03.156/03.155

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

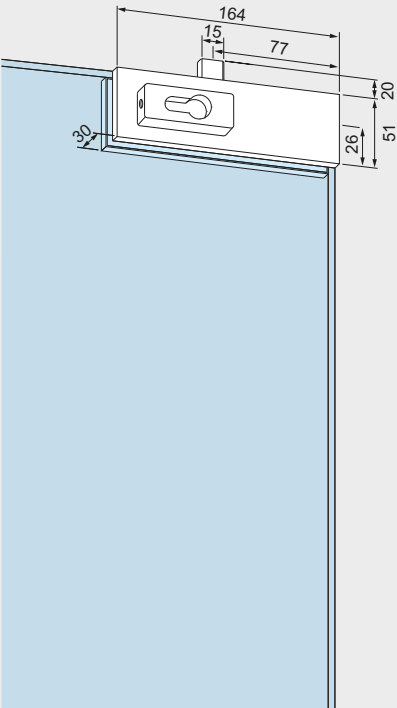
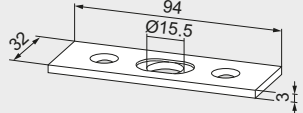
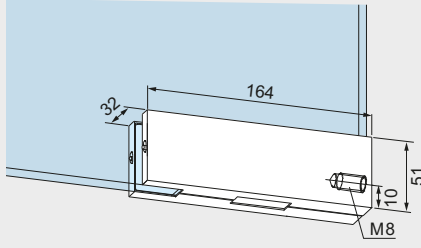
	Product description	Glass thickness	Art. No.
	<p>PT 62 UNIVERSAL Connector for overpanel and sidelight, with stop</p> <p>Weight in kg: Aluminum 0.475 Stainless steel 0.670</p>		03.173
	<p>PT 70 UNIVERSAL Overpanel connector with two stop inserts and two blank inserts, also suitable for 12 mm glass thickness</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.272 Stainless steel 0.335</p>	15, 19 mm	01.150 01.158 not illustrated
	<p>Overpanel-sidelight connector</p> <p>Weight in kg: Aluminum 0.146</p>		12.536
	<p>PT 70 UNIVERSAL Connector with two stop inserts and two blank inserts, angle 90°</p> <p>angle 135°</p> <p>angle 91° - 134° / 136° - 179° (glass preparation on request)</p> <p>also suitable for 12 mm glass thickness</p> <p>Weight in kg: Aluminum 0.272 ER 0.335</p>		01.156 01.157 not illustrated 01.155

	Product description	Glass thickness	Art. No.
	<p>PT 71 UNIVERSAL Overpanel connector with fin fitting</p> <p>Weight in kg: Aluminum 0.458 Stainless steel 0.608</p>		<p>01.161</p>
	<p>PT 80 UNIVERSAL Connector</p> <p>Please specify glass thickness with order.</p> <p>Weight in kg: Aluminum 0.555 Stainless steel 0.780</p>	<p>15, 19 mm</p>	<p>03.170 03.472 not illustrated</p>
	<p>PT 81 UNIVERSAL Connector with fin fitting</p> <p>Weight in kg: Aluminum 0.784 Stainless steel 1.065</p>		<p>03.175</p>
	<p>PT 80 UNIVERSAL Connector angle 90°</p> <p>Weight in kg: Aluminum 0.467 Stainless steel 0.540</p>		<p>03.171</p>

	Product description	Glass thickness	Art. No.
	<p>PT 80 UNIVERSAL Connector, angle 135°</p> <p>angle 91°–134°/136°–179° (Please specify angle with order)</p> <p>Weight in kg: Aluminum 0.472 Stainless steel 0.541</p>		<p>03.172</p> <p>03.178 not illustrated</p>
	<p>PT 80 UNIVERSAL Connector, shortened, angle 90°</p> <p>angle 91°–134°/136°–179° (Please specify angle with order)</p> <p>Weight in kg: Aluminum 0.236 Stainless steel 0.270</p>		<p>03.470</p> <p>03.179 not illustrated</p>
	<p>Three way box corner connector angle 90°</p> <p>Without approval for assemblies with glass cover, showcase fitting</p> <p>Weight in kg: Aluminum 0.099 Stainless steel 0.131</p>		<p>03.198</p>
	<p>PT 90 UNIVERSAL Screw on fitting</p> <p>Weight in kg: Aluminum 0.120 Brass 0.160 Stainless steel 0.155</p>	<p>13.5–19 mm</p>	<p>07.021</p> <p>07.210</p>
	<p>PT 91 UNIVERSAL Corner fitting</p> <p>Weight in kg: Aluminum 0.120 Brass 0.160 Stainless steel 0.155</p>	<p>13.5–19 mm</p>	<p>07.023</p> <p>07.211</p>

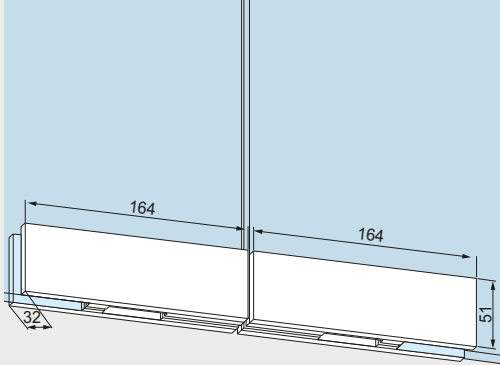
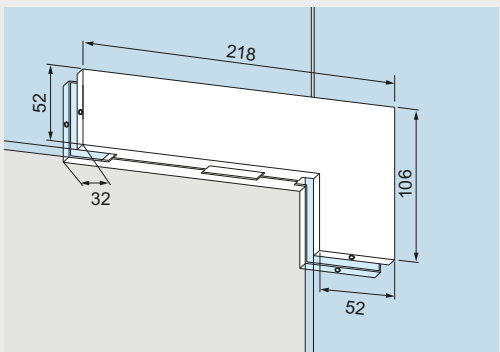
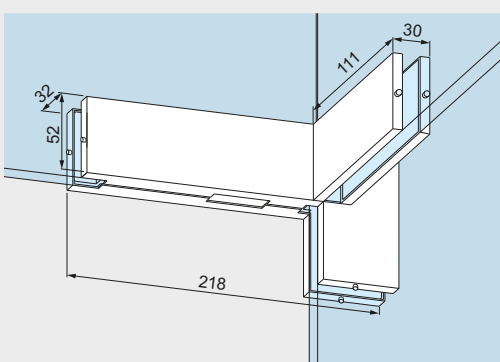
	Product description	Glass thickness	Art. No.
	<p>Side connector with fixing plate</p> <p>Also suitable for 8 mm glass thickness.</p> <p>Weight in kg: Aluminum 0.313 Stainless steel 0.376</p> <p>Gasket</p> <p>Please indicate glass thickness and Art. No. of fitting.</p>	<p>10, 12 mm</p> <p>8 mm</p> <p>12 mm</p>	<p>01.153</p> <p>not illustrated</p> <p>01.901</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).</p> <p>Please indicate:</p> <ul style="list-style-type: none"> Panel height (max. 2,500 mm, higher dimension on request) Required preparation of the profile for top and bottom fittings <p>Aluminum round profile, as above, stock length 6,000 mm (unprepared)</p> <p>Aluminum round profile, as above, stock length 3,000 mm (unprepared)</p> <p>Aluminum round profile, as above, stock length 2,800 mm (unprepared)</p> <p>Weight in kg/m: Aluminum 4.744</p>		<p>03.380</p> <p>03.381</p> <p>03.382</p> <p>03.383</p>

Locks, complete for 10 mm glass thickness

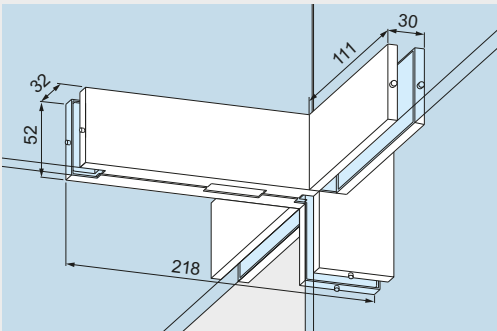
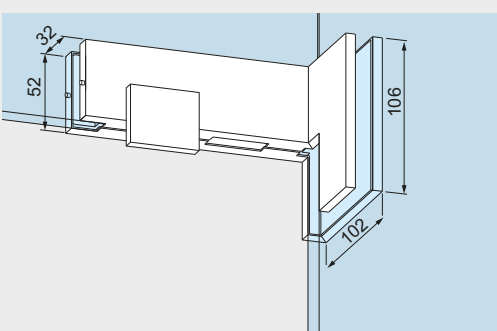
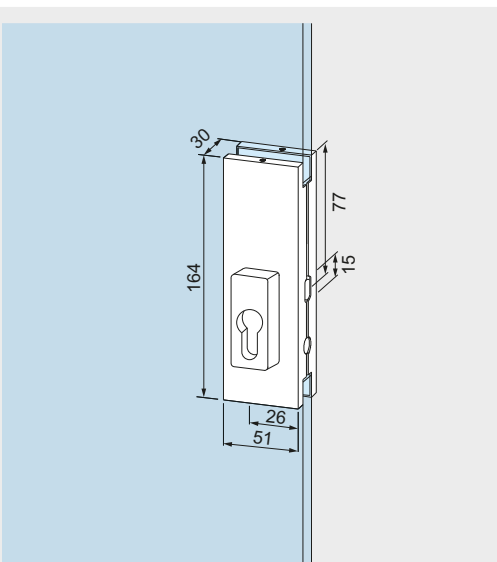
	Product description	Glass thickness	Art. No.
	US 10 UNIVERSAL corner lock, prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes on both sides, 14 mm thick.	10 mm	03.206
	Lock insert: <ul style="list-style-type: none"> high corrosion resistance according to EN 1670, class 4 with regard to type-test according to DIN 18251, class 3** 		
	only in satin stainless steel (700)	12 mm	03.867 not illustrated
	Please specify glass thickness with order.	15, 19 mm	03.285
	prepared for KABA		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		03.230
	only in satin stainless steel (700)	12 mm	03.870 not illustrated
	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.

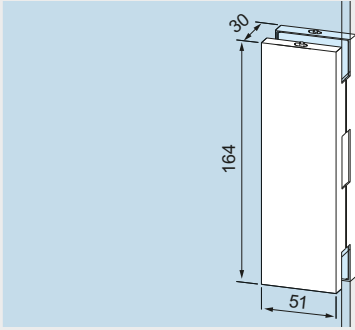
** Extract from DIN 18251, class 3: Type-test with 50,000 locking bolt operating cycles. Furthermore the lock was tested successfully by a neutral testing institute with 100,000 locking bolt operating cycles.

	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>		03.245
	<p>only in satin stainless steel (700)</p>	12 mm	03.871 not illustrated
	<p>Weight in kg: Aluminum 0.844 Brass 1.096 Stainless steel 0.948</p>		
	<p>GK 20 UNIVERSAL with stop</p>		03.247 not illustrated
<p>Weight in kg: Aluminum 1.490 Brass 4.465</p>			
	<p>GK 40 UNIVERSAL Corner overpanel strike box to suit US 10 corner lock</p>		03.250
	<p>GK 40 UNIVERSAL with stop</p>		*03.254/03.255 not illustrated
	<p>Weight in kg: Aluminum 0.754 Brass 1.035 Stainless steel 1.010</p>		
	<p>GK 41 UNIVERSAL Strike box to suit US 10 corner lock, with fin fitting</p>		*03.194/03.193
	<p>Weight in kg: Aluminum 0.906 Stainless steel 1.270</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>GK 41 UNIVERSAL 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 UNIVERSAL Strike box to suit US 10 corner lock, angle 90°, with stop inside</p> <p>angle 135°, without stop (Glass preparation on request)</p> <p>Weight in kg: Aluminum 0.910 Stainless steel 1.247</p>		<p>*03.274/03.275</p> <p>*03.276/03.277 not illustrated</p>
	<p>US 20 UNIVERSAL Centre lock, prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes 14 mm thick.</p> <p>Lock insert: • high corrosion resistance according to EN 1670, class 4 • with regard to type-test according to DIN 18251, class 3**</p> <p>only in satin stainless steel (700)</p> <p>Prepared for KABA</p> <p>Prepared for half profile cylinder</p> <p>Weight in kg: Aluminum 0.942 Brass 1.061 Stainless steel 1.053</p>	<p>10 mm</p> <p>12 mm</p>	<p>3.215</p> <p>03.868 not illustrated</p> <p>03.345</p> <p>*03.290/03.289</p>

* Left or right hand are determined by view from outside. (illustration shows left hand)
 ** Extract from DIN 18251, class 3: Type-test with 50,000 locking bolt operating cycles. Furthermore the lock was tested successfully by a neutral testing institute with 100,000 locking bolt operating cycles.

	Product description	Glass thickness	Art. No.
	GK 50 UNIVERSAL Strike box to suit US 20 centre lock	10 mm	03.224
	only in satin stainless steel (700)	12 mm	03.869
	Weight in kg: Aluminum 0.602 Brass 0.730 Stainless steel 0.727		

UNIVERSAL pinch free

Completely pinch free double swing doors

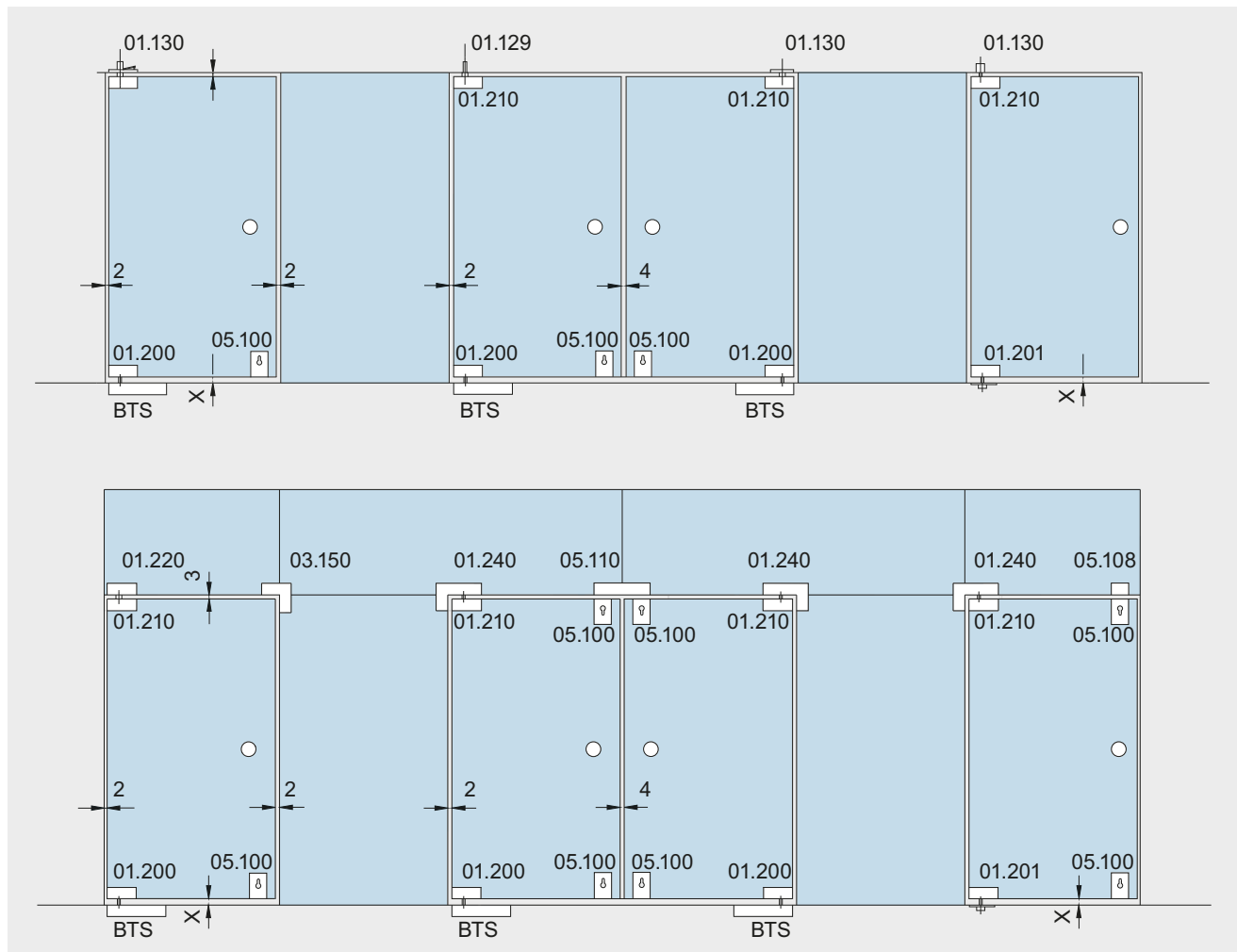
UNIVERSAL pinch free patch fittings with their 15 mm pivot point help to resolve this problem by means of the closeness of the pivot point to the frame. In order to eliminate finger traps completely, the special radiused edging strip should be used.

Suitable for 10 mm and 8 mm glass thicknesses

UNIVERSAL pinch free corner patches are supplied as standard with gasket to suit 10 mm glass. For 8 mm glass, correspondingly thicker gasket is available.

Type selection

Toughened glass assemblies with patches for pinch free centre hung doors. All standard assembly types see page 44.



BTS = Floor spring

X = 10 mm with Art. No. 01.200

X = see page 40 for Art. No. 01.201

Maximum door weight and width for patch fittings

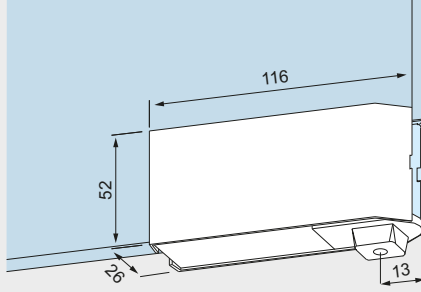
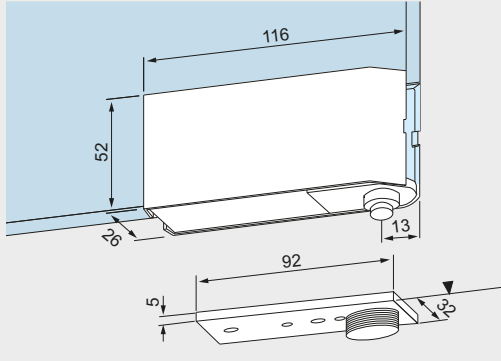
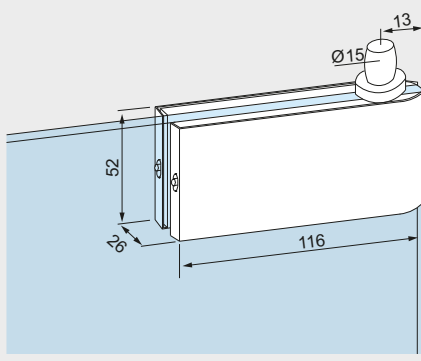
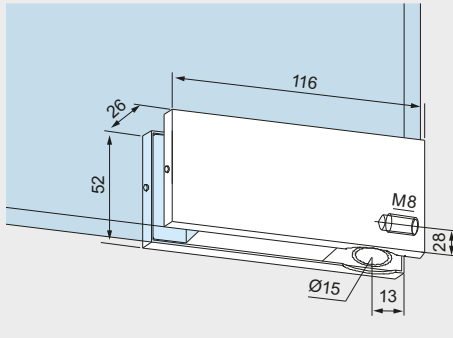
max. door weight: 80 kg
 max. door width: 1,100 mm
 For door weights up to 150 kg and widths up to 1,400 mm, door rails should be used.

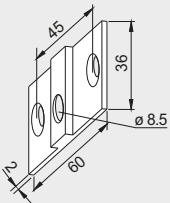
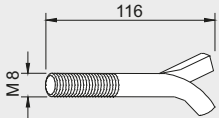
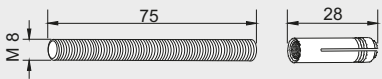
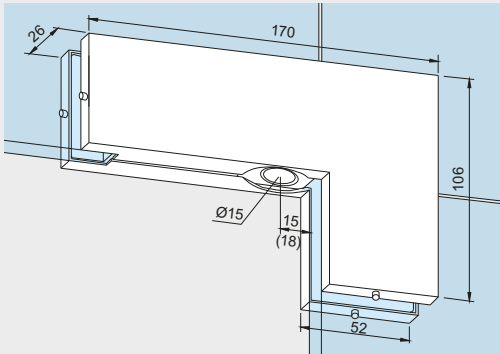
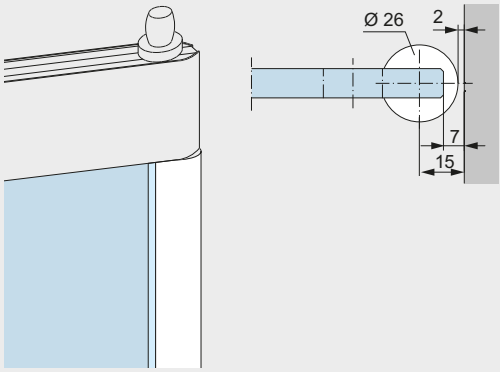
Torque for fixing screws

Screws M 6: 10 Nm (4 mm)*
 Screws M 6: 15 Nm (5 mm)*
 Screws M 8: 20 Nm (5 mm)*

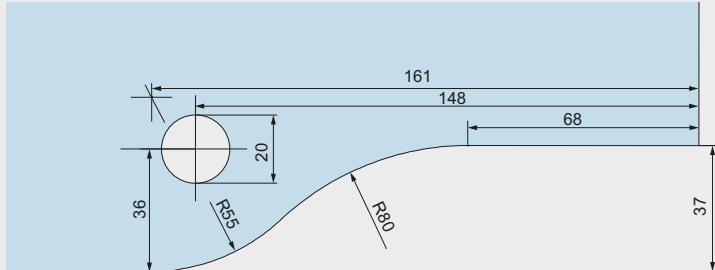
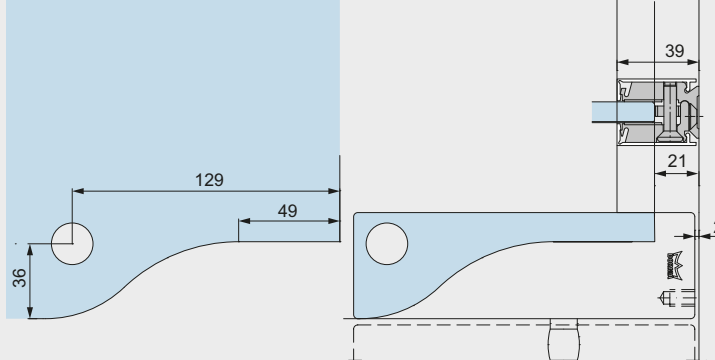
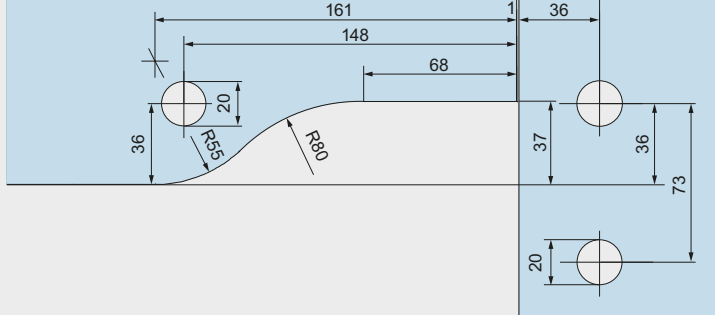
*Allan key size

**Pinch free patch fittings with 15 mm pivot point,
complete, for 10 mm glass thickness**
Accessories see page 222.

	Product description	Art. No.
	<p>Bottom patch complete with spindle insert for DORMA BTS floor spring</p> <p>Weight in kg: Aluminum 0.473 Stainless steel 0.535</p>	<p>01.200</p>
	<p>Bottom patch complete with pivot insert and pivot bearing, with cover plate, height adjustable by 5 mm; floor clearance see page 76</p> <p>Weight in kg: Aluminum 0.560 Stainless steel 0.622</p>	<p>01.201</p>
	<p>Top patch fitting with pivot pin 15 mm Ø</p> <p>Weight in kg: Aluminum 0.453 Stainless steel 0.526</p>	<p>01.210</p>
	<p>Overpanel patch with 15 mm Ø pivot pin and threaded hole at side</p> <p>Weight in kg: Aluminum 0.262 Stainless steel 0.335</p>	<p>01.220</p>

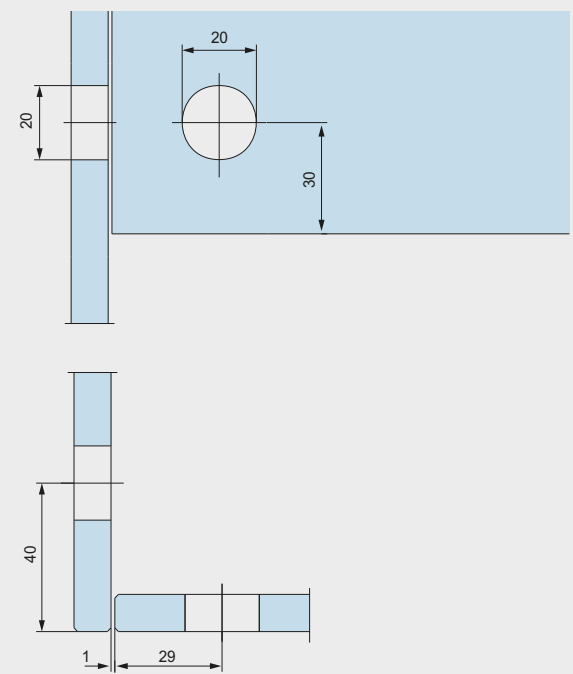
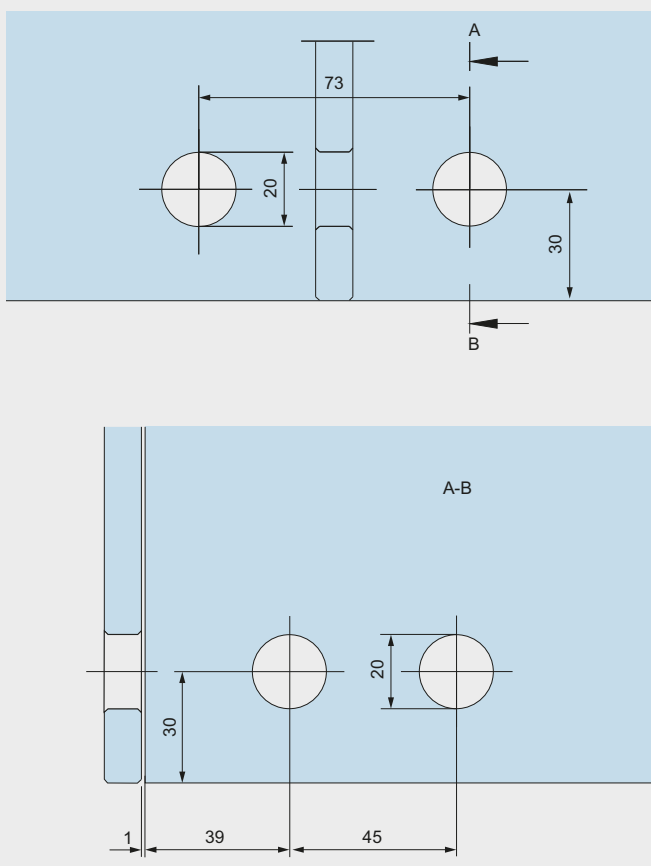
	Product description	Art. No.
	<p>Fixing plate for overpanel patch EP</p> <p>Weight in kg: Aluminum 0.019 Brass 0.045</p> <p>Stainless steel not available, satin chrome on brass supplied.</p>	01.127
	<p>Wall anchor with thread M 8 for overpanel patch</p> <p>Weight in kg: 0.040</p>	01.133
	<p>Threaded rod M 8 with plug for overpanel patch PT 30</p> <p>Weight in kg: 0.032</p>	01.134
	<p>Patch for overpanel and sidelight with plastic socket for 15 mm Ø pivot pin, pivot point 15 mm in combination with patch fittings</p> <p>Pivot point 18 mm in connection with door rails</p> <p>Weight in kg: Aluminum 0.542 Stainless steel 0.547</p>	01.240 01.245 not illustrated
	<p>Radiused edging strip* for pinch free doors, (strip is clamped onto free glass edge), acrylic.</p> <p>Length: up to 4,500 mm (please specify height)</p> <p>Length: 2,250 mm</p> <p>Weight in kg/m: 0.408</p> <p>* Important information: If radiused edging strip is used, special glass preparation is necessary (see page 77).</p>	01.231 01.230

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>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.						
	<p>PT 41, GK 41 Patch for overpanel and sidelight with fin fitting inside</p> <p>Scale 1 : 2</p>	<p>03.162 03.163 03.193 03.194</p>						
	<p>PT 42, GK 42 Angled connector 90°</p> <p>Scale 1 : 2</p>	<p>03.164 03.165 03.274 03.275</p>						
	<p>Angled connectors with wider angles</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>*Distance</th> </tr> </thead> <tbody> <tr> <td>179° – 105°</td> <td>46 mm</td> </tr> <tr> <td>104° – 91°</td> <td>65 mm</td> </tr> </tbody> </table> <p>Details as to glass preparation for angled connectors on demand.</p>	Angle	*Distance	179° – 105°	46 mm	104° – 91°	65 mm	<p>03.166 03.167 03.464 03.465 (not illustrated)</p>
Angle	*Distance							
179° – 105°	46 mm							
104° – 91°	65 mm							

	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 see PT 81</p> <p>Glass preparation for fin fitting both sides see PT 81</p>	<p>03.150</p> <p>03.173</p> <p>03.157</p> <p>03.158</p> <p>03.159</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 70 Connectors for overpanels and sidelights, 90°</p> <p>Glass preparation examples for angles between 91° – 179° available on request.</p> <p>Scale 1 : 2</p>	<p>01.156</p>
	<p>PT 71 Overpanel connector with fin fitting</p> <p>Scale 1 : 2</p>	<p>01.161</p>

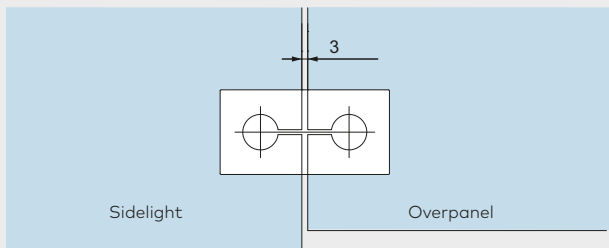
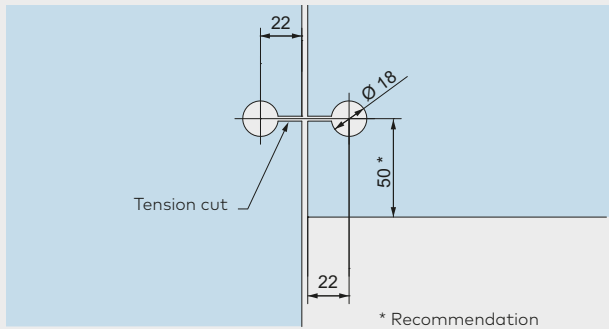
Product description

Art. No.

Overpanel-sidelight connector

12.536

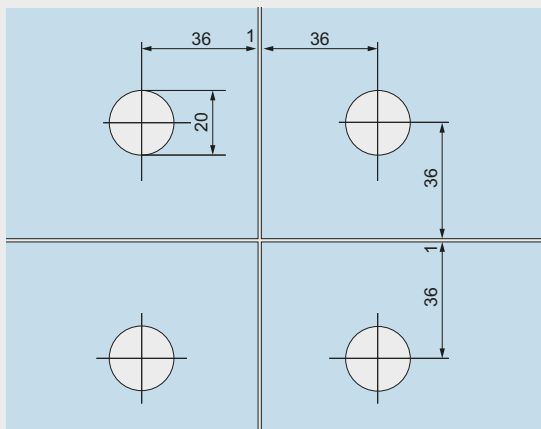
Weight in kg:
Aluminum 0.146



PT 80
Connector

03.170
03.472

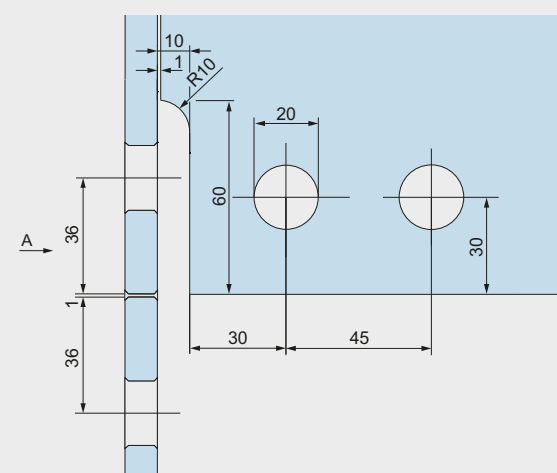
Scale 1 : 2



PT 81
Connector with fin fitting

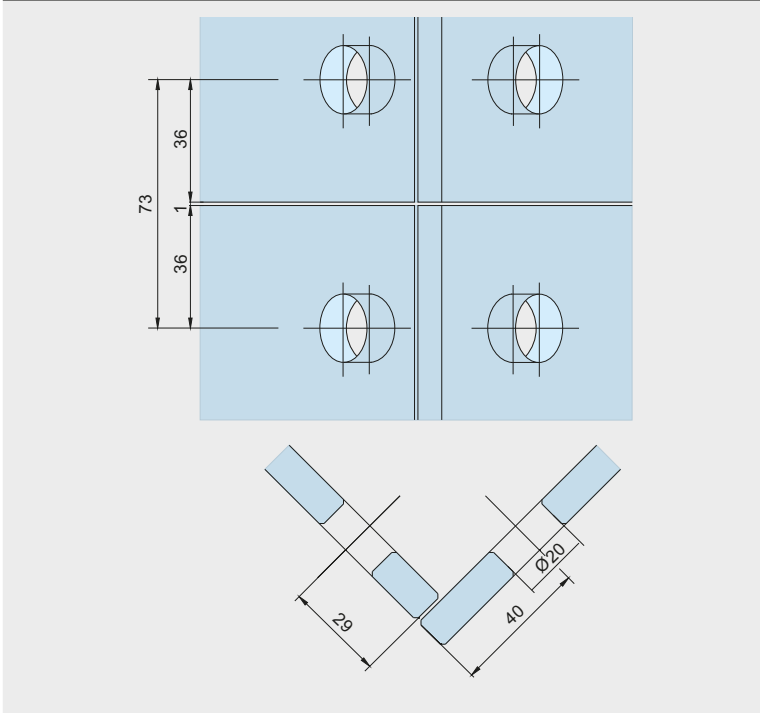
03.175

Scale 1 : 2



Product description

Art. No.



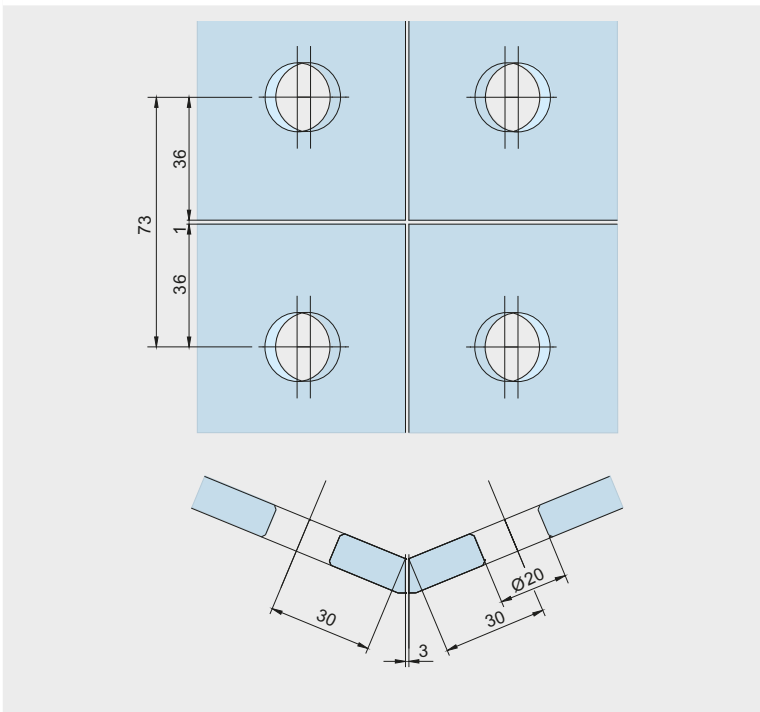
PT 80

Angled connector, 90°

03.171

Glass preparation examples for angles between 91° – 134° / 136° – 179° available on request.

Scale 1 : 2



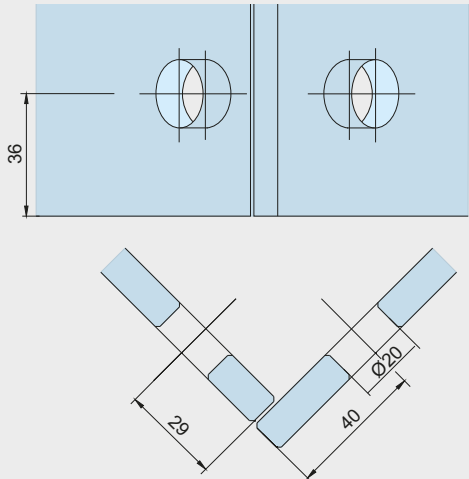
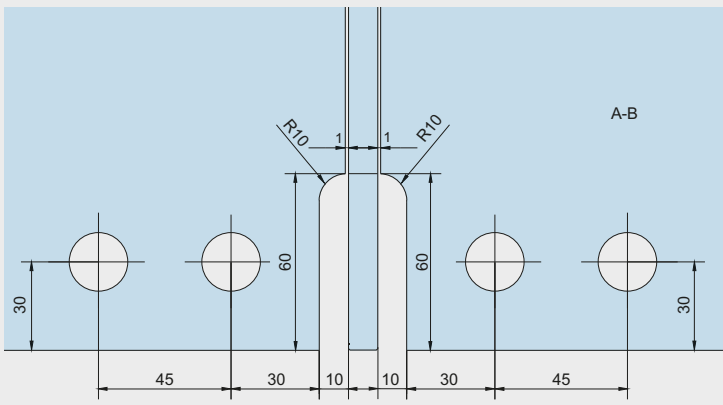
PT 80

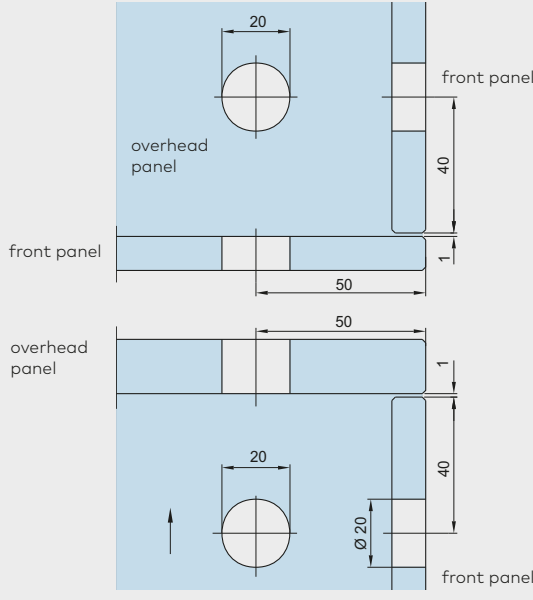
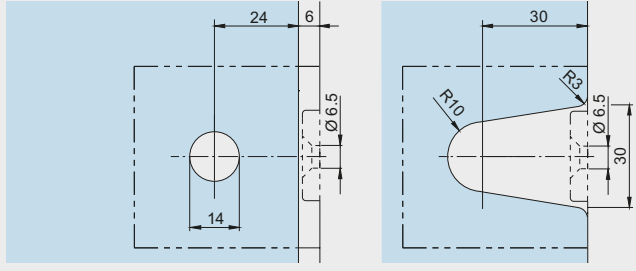
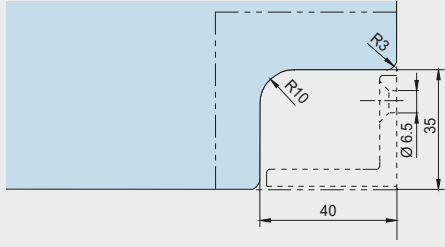
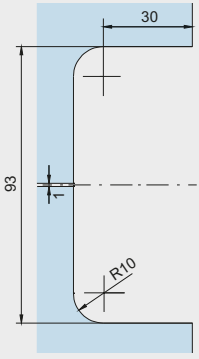
Angled connector, 135°

03.172

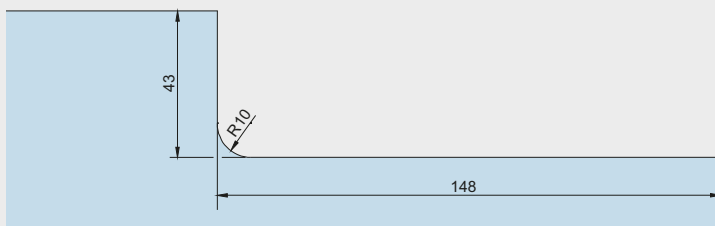
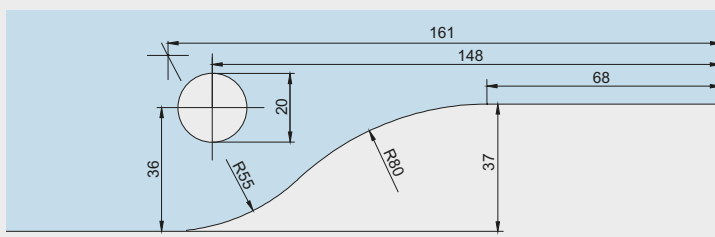
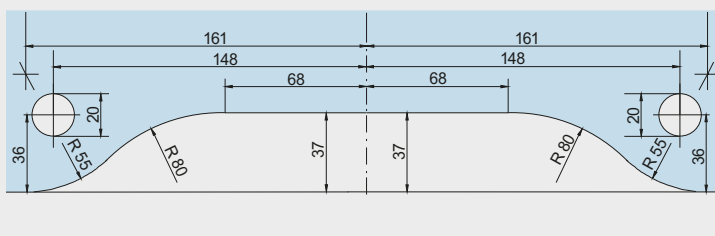
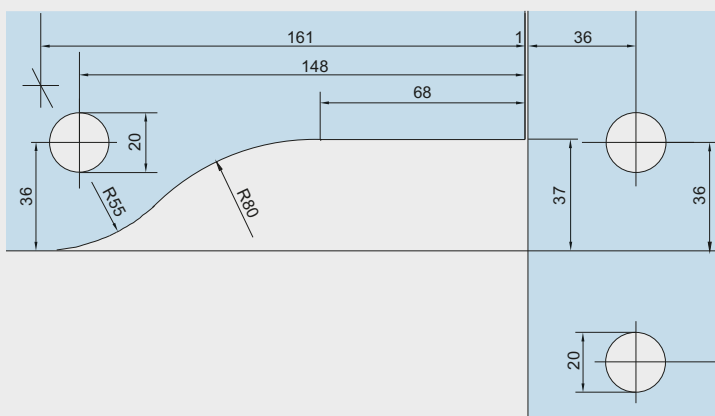
Glass preparation examples for angles between 91° – 134° / 136° – 179° available on request.

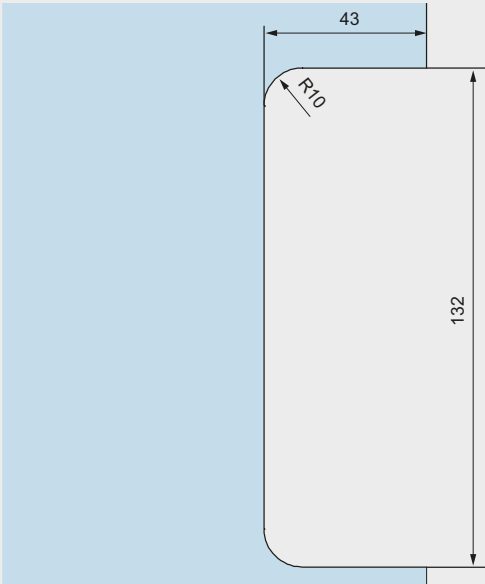
Scale 1 : 2

	Product description	Art. No.
	<p>PT 80 shortened Angled connector, 90° shortened</p> <p>Glass preparation examples for angles between 91° – 134° / 136° – 179° available on request.</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 03.195</p>

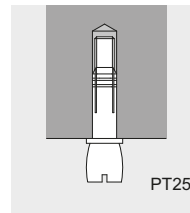
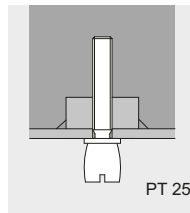
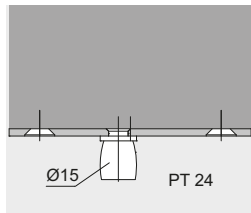
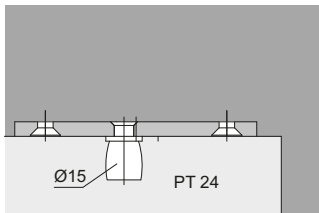
	Product description	Art. No.
	<p>Three way box corner connector angle 90°</p> <p>Scale 1 : 2</p>	<p>03.198</p>
	<p>PT 90 Screw on fitting</p> <p>Scale 1 : 2</p>	<p>07.021</p>
	<p>PT 91 Corner fitting</p> <p>Scale 1 : 2</p>	<p>07.023</p>
	<p>Sidelight connector with fixing plate</p> <p>Scale 1 : 2</p>	<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 03.254 03.255</p>

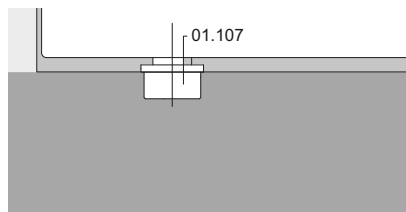
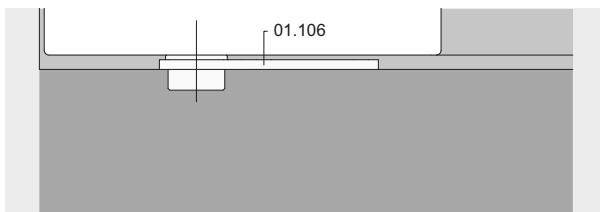
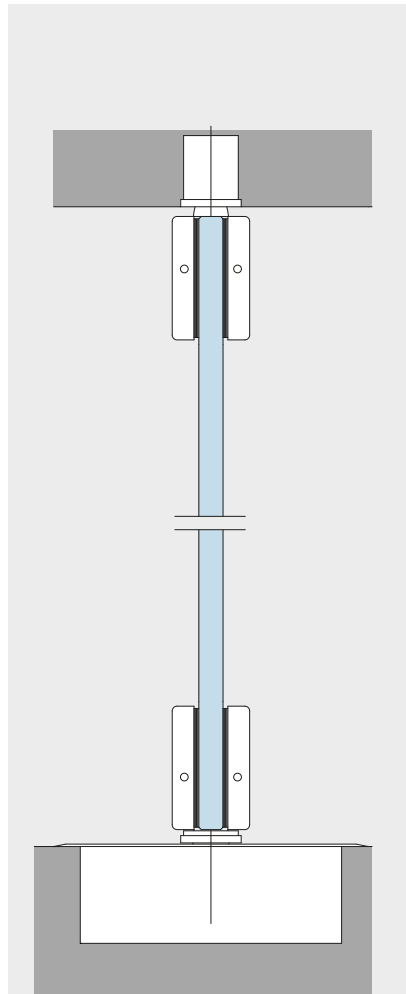
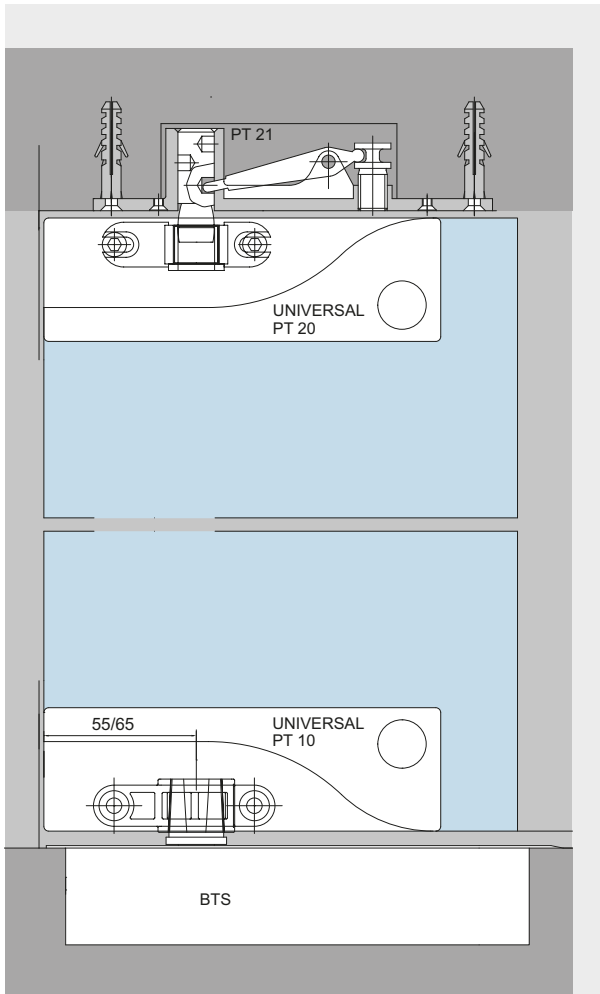
	Product description	Art. No.
	<p>US 20. GK 50 Centre lock</p>	<p>03.215 03.345 03.289 03.290</p>
	<p>and strike box to suit centre locks</p>	<p>03.224</p>
	<p>Scale 1 : 2</p>	

Fixing of pivots and top centres

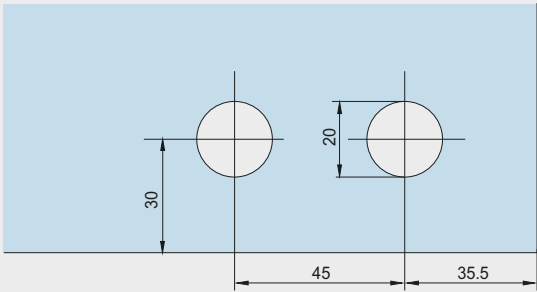
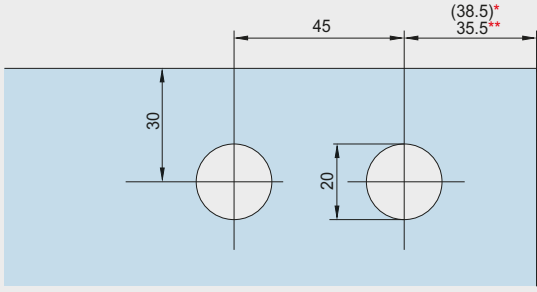
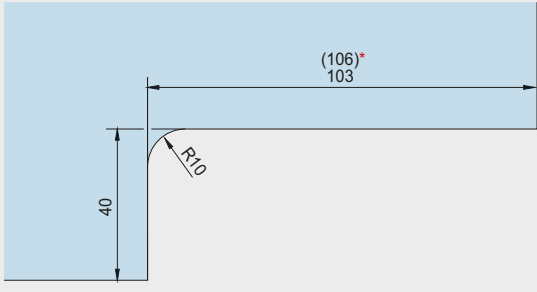


Fixing of top pivots and top centres for PT 20.

Fixing of floor springs, pivot bearings for PT 10.



Glass preparation

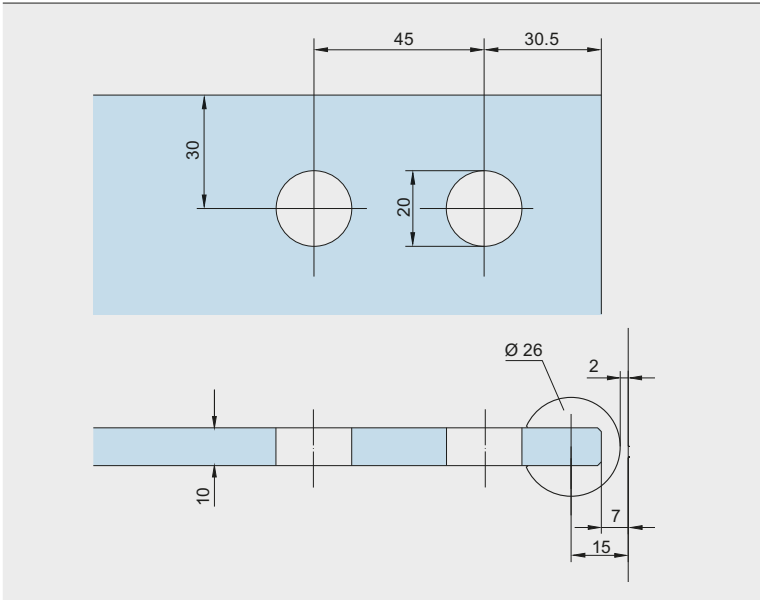
	Product description	Art. No.
	Bottom patch fitting Scale 1 : 2	01.200 01.201
	Top patch fittings Scale 1 : 2	01.210*
	Overpanel patch fittings Scale 1 : 2	01.220**

* In conjunction with bottom door rail with 18 mm pivot point distance

**** Important note:**
 When using the edge protection profile, please note the special glass preparation required (see page 77).

Product description

Art. No.



Top and bottom patch fittings

01.200

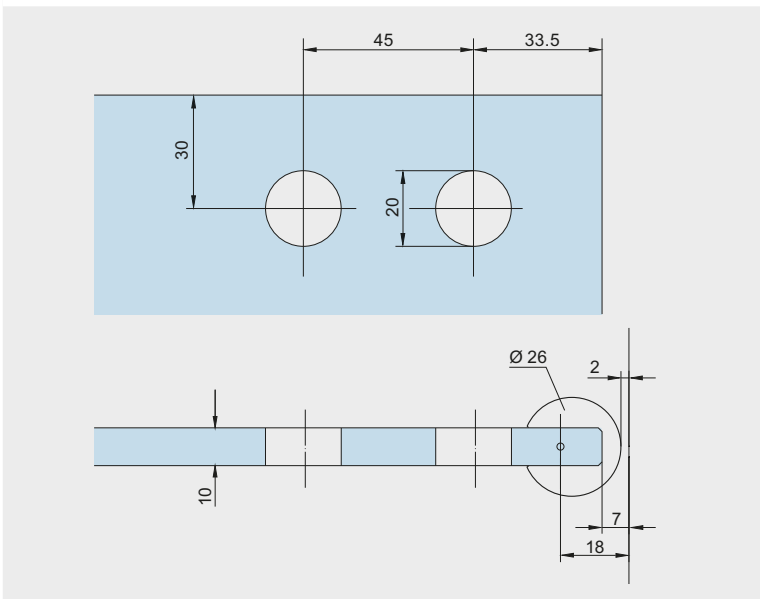
01.201

01.210

in conjunction with
radiused edge strip

01.021.001.00

Scale 1 : 2



Top patch fittings

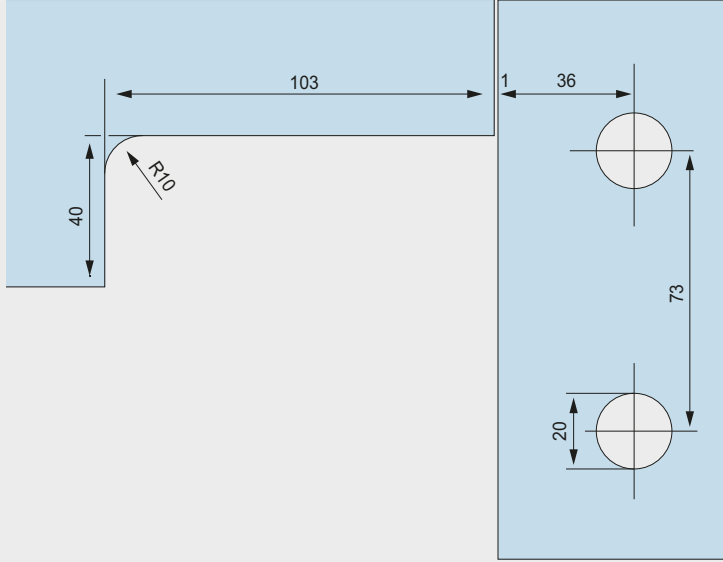
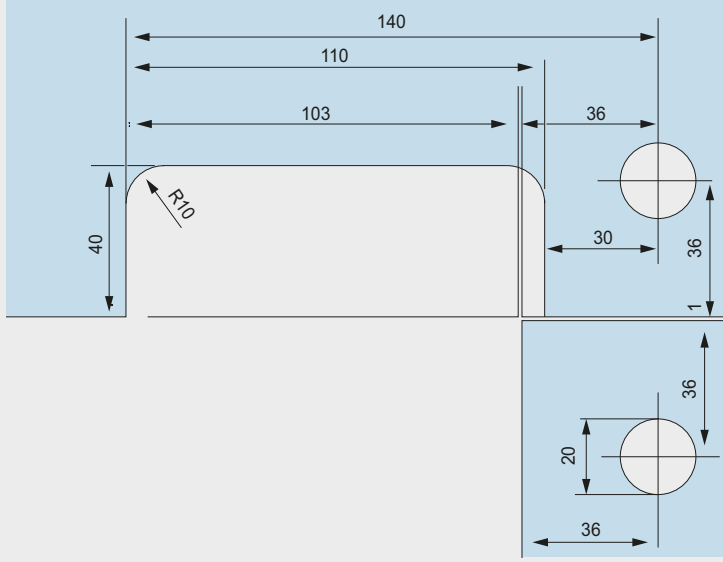
01.210

in conjunction with botom door rail
and edge protection profile

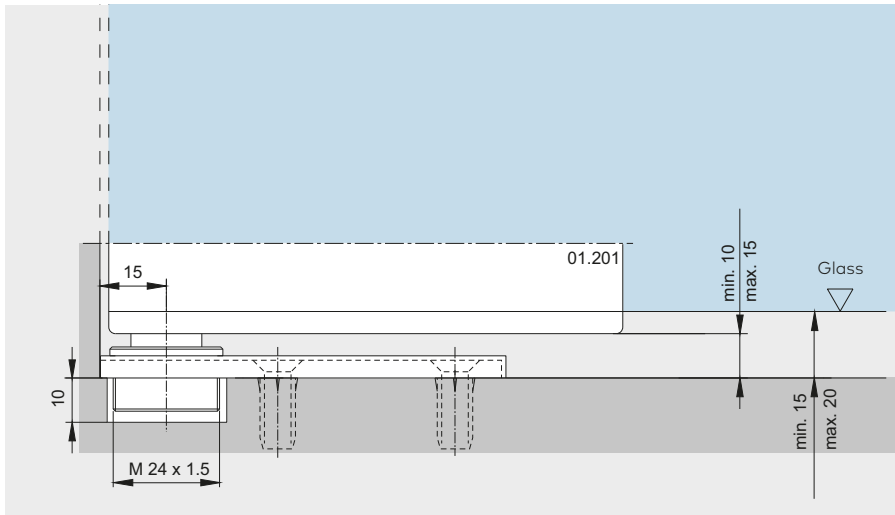
01.021.001.00

Scale 1 : 2

Overpanel and sidelight

	Product description	Art. No.
	<p>Divided overpanel</p> <p>Scale 1 : 2</p>	<p>01.240 01.245</p>
	<p>Undivided overpanel</p> <p>Scale 1 : 2</p>	<p>01.240 01.245</p>

Construction details



Using the bottom patch on pivot bearing with cover plate (Art. No. 01.201) the air gap between floor and glass is 15–20 mm (by height adjustability).

To reduce the air gap to 10 mm: Embed base plate into the floor.

Safety-related information

Important safety-related information for the mounting and use of dormakaba 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. dormakaba recommends using TSG-H (heat soaked toughened safety glass) to DIN EN 12150-1.
2. dormakaba glass fittings are not suitable for application in rooms where chemicals (e. g. chlorine) are used such as indoor swimming pools, saunas or salt-water pools.
3. Never move sliding panels faster than walking speed and always stop the door manually before it reaches end position.
4. Do not shut swing doors with excessive force. Install door stop to prevent door from opening too far.

Mounting

1. Only properly qualified and specially trained staff is authorised to mount dormakaba 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 dormakaba 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.

