



**UNIVERSAL**

# UNIVERSAL ... as the name says

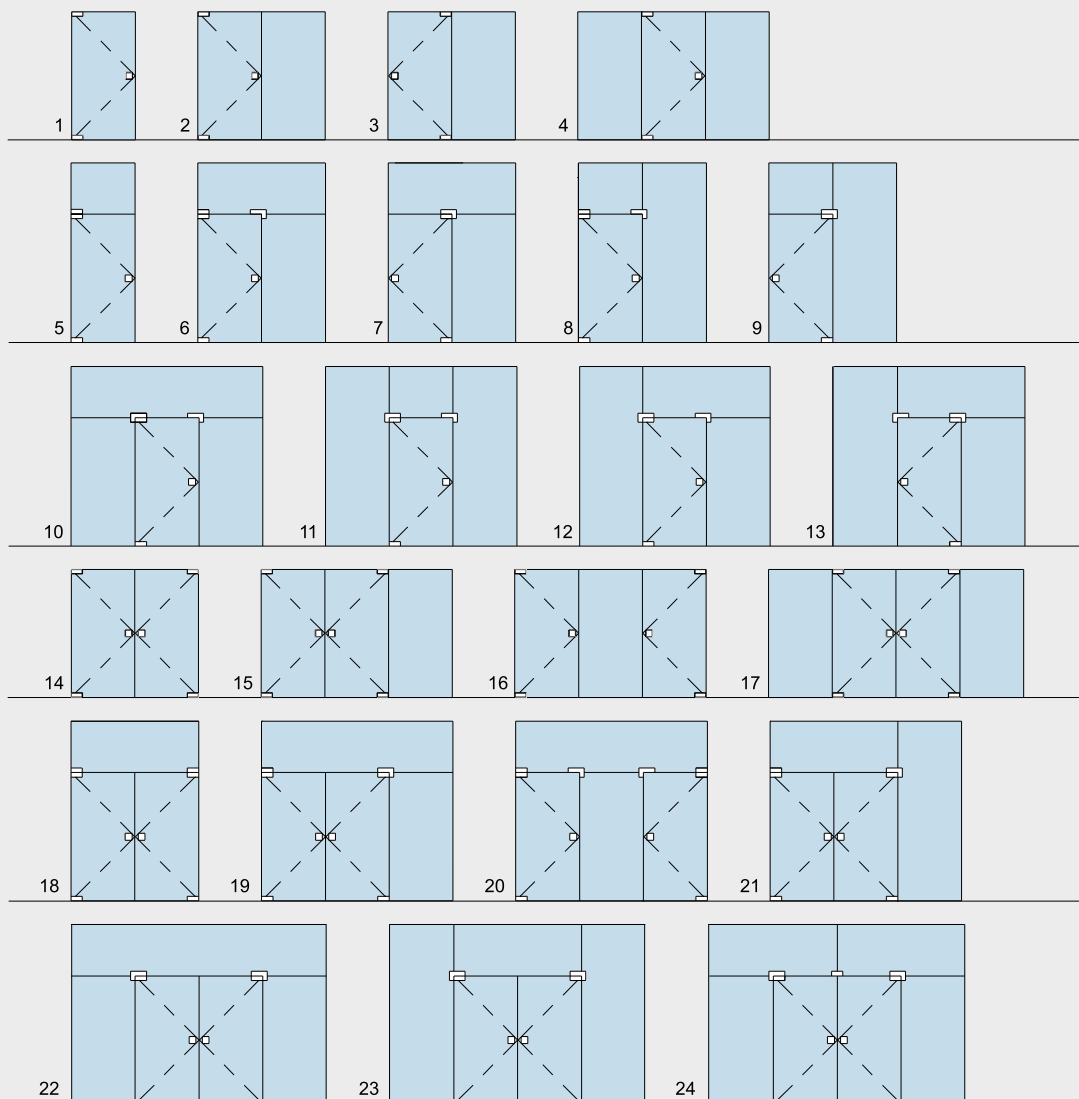
With its broad spectrum of basic types and variants, the UNIVERSAL range of patch fittings enables the realisation in toughened glass of almost any conceivable design. Toughened glass assemblies can be provided with fixed parts in widely differing arrangements – with corner fittings or fin fittings at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

## Easy glass preparation, secure fixing

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

## Suitable for common glass thicknesses

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



**Variable pivot point**

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

**Reliability built in**

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

**Matching range of locks**

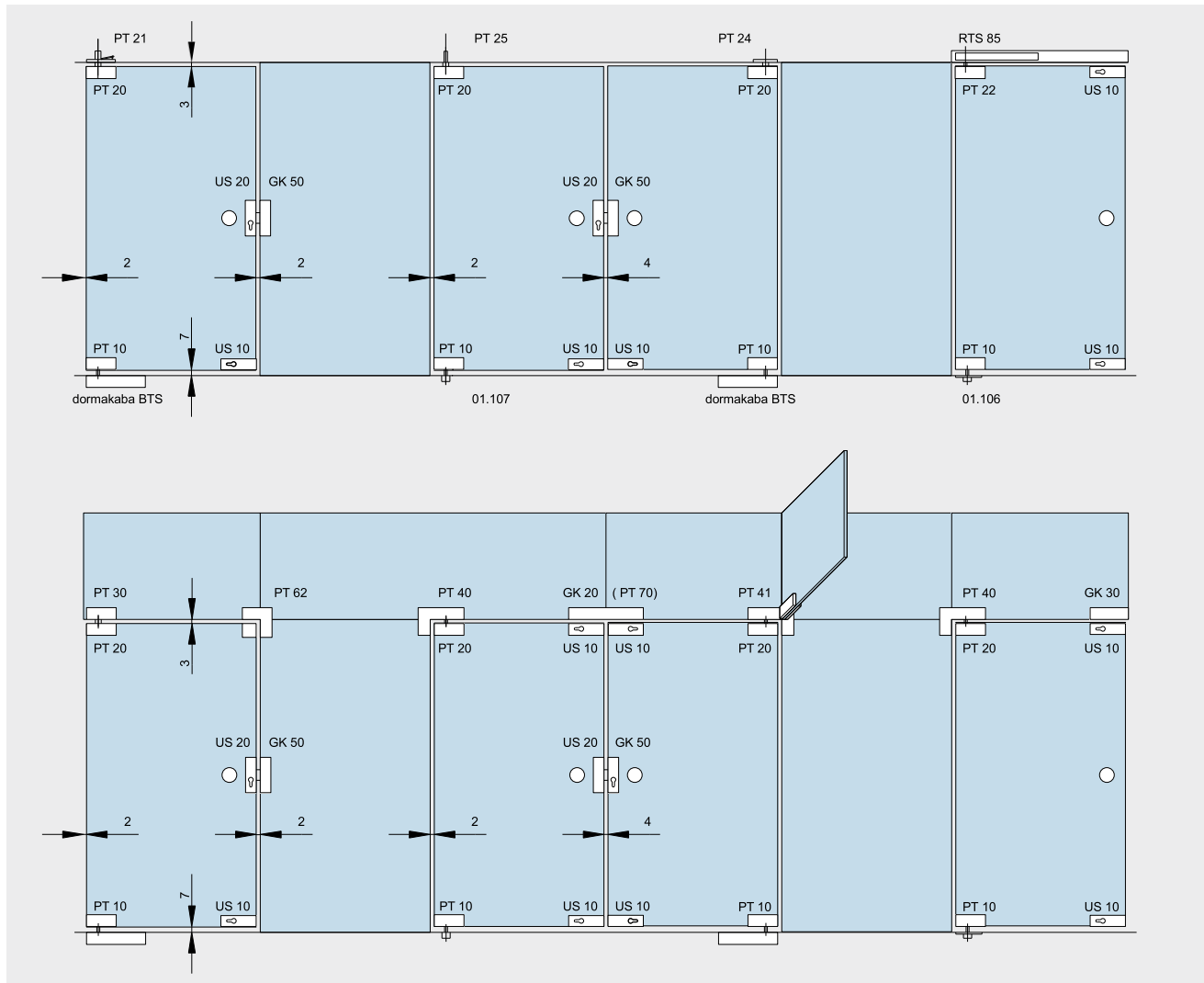
The UNIVERSAL range includes every type of accessory, and of course, a variety of locks and strike boxes in a matching design concept, giving the designer plenty of choice from the options available.

**Short delivery times**

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

# Type section

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



BTS = dormakaba Floor spring  
GK = Strike box

PT = Centre hung door fittings  
RTS = Transom closer

US = Lock

## Maximum door weight and width for UNIVERSAL fittings

max. door weight: 110 kg\*

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

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

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

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

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

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

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

**Torque for fixing screws**

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

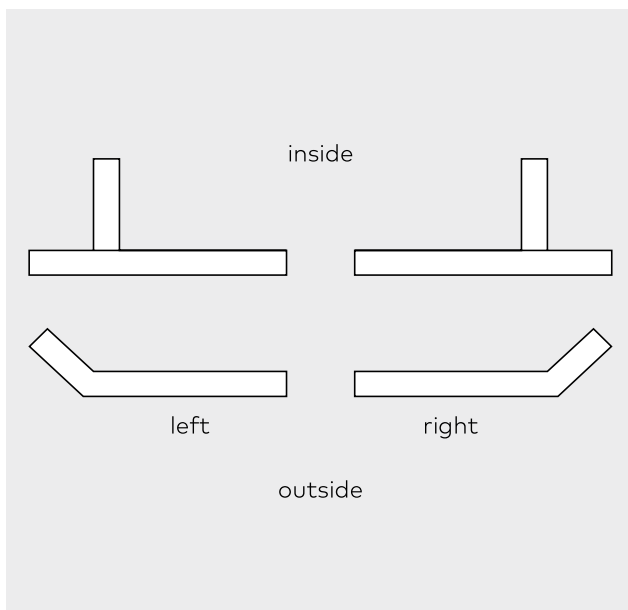
Screws M 6: 15 Nm (5 mm)\*

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

\*Allan key size

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

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



# UNIVERSAL Motion – the self-closing patch fitting

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

## Eight reasons for the one.

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

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



## Technical features:

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

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

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

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

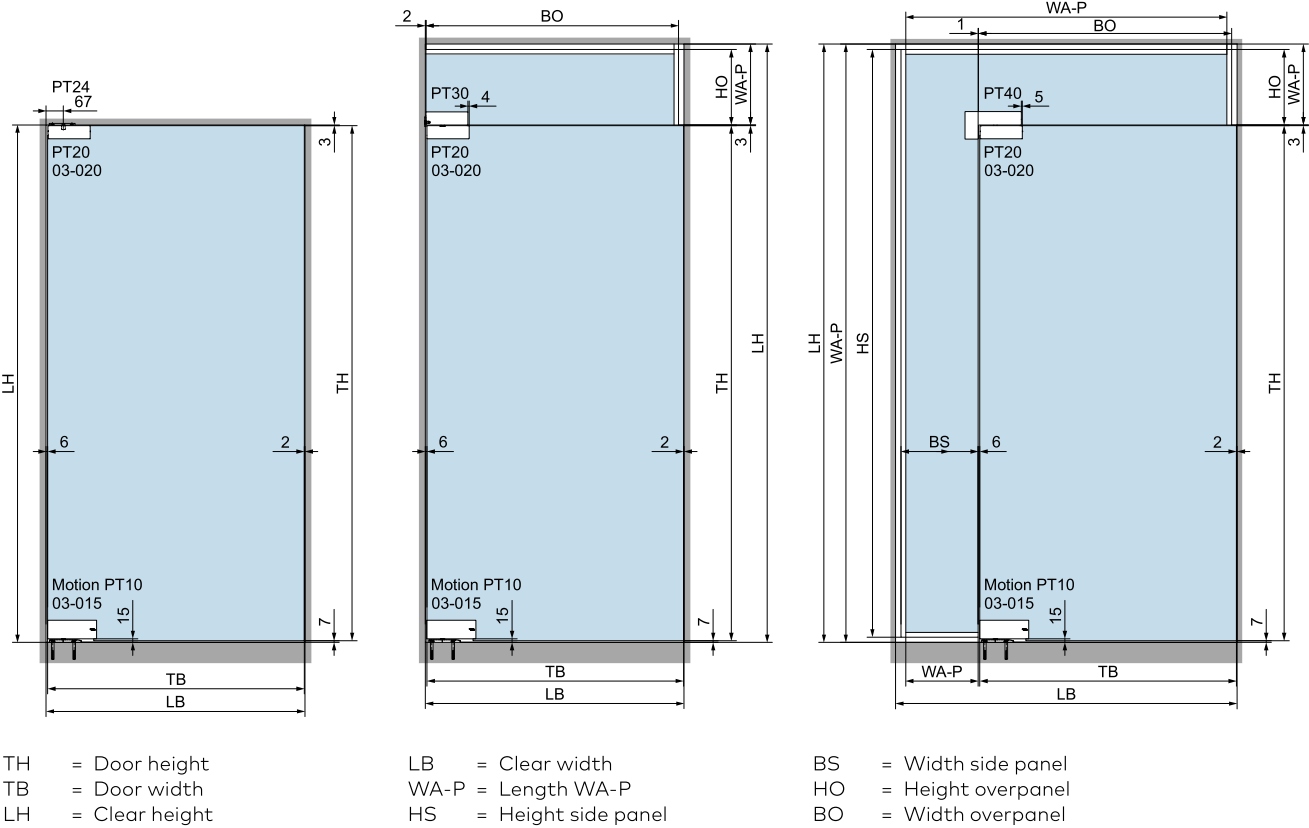
UNIVERSAL Motion is tested by DORMA-Glas according to DIN EN 1191:2013 for 200,000 test cycles.

## Technical notes:

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

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

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

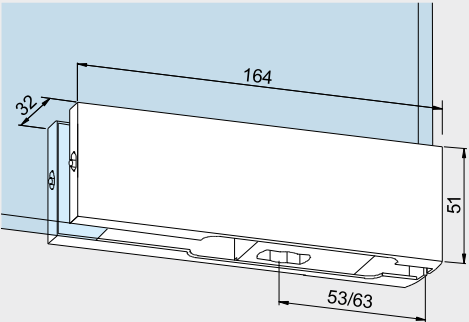
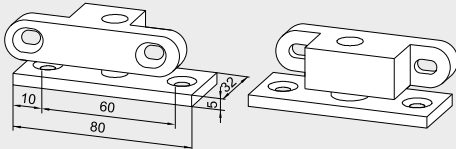
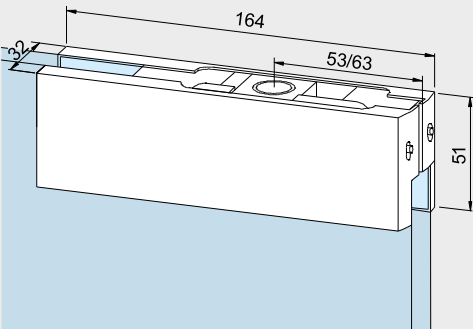
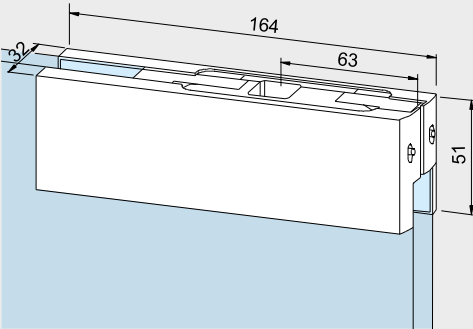


**Note:**  
To extend the tolerance range, it is possible to increase the glass bore for the PT20 from ø20 to ø22.

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

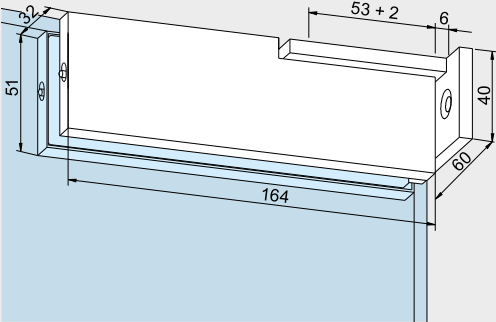
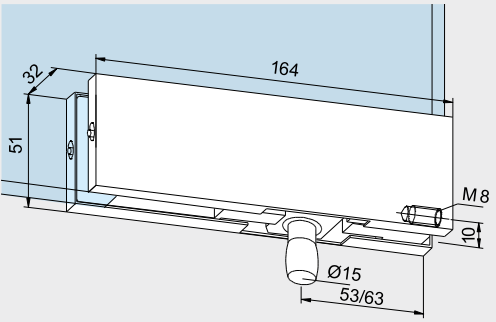
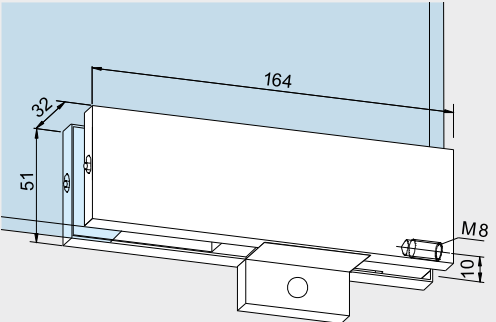
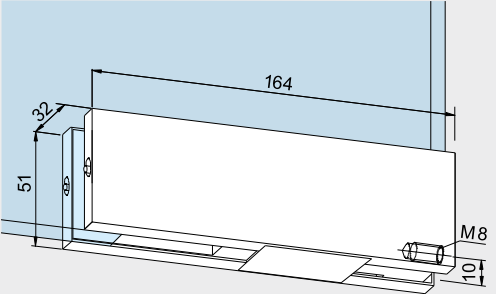
# Patch fittings UNIVERSAL

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

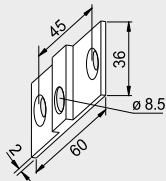
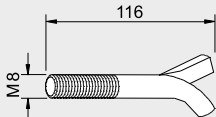

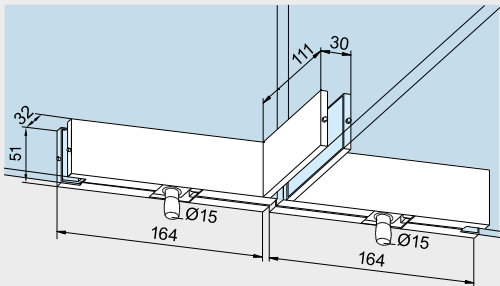
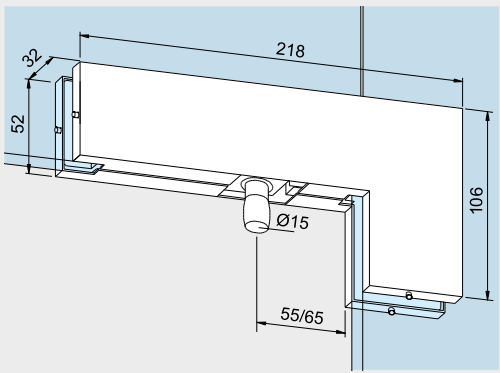
	Product description	Glass thickness	Art. No.
	<b>PT 10 UNIVERSAL</b>	10 mm	<b>*03.100</b>
	<b>Bottom patch</b> with insert for floor spring spindle, or round pivot 14 mm Ø	13 - 19 mm	<b>03.280</b>
	<b>With the order please indicate the exact glass thickness!</b>		
	Weight in kg:		
	Aluminum 0.564		
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

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

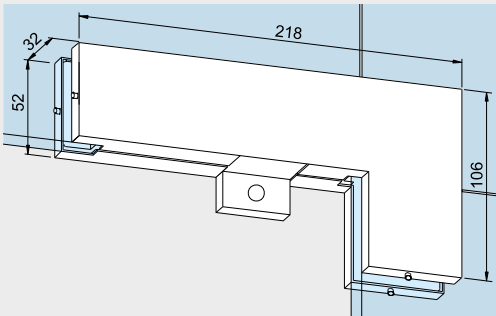
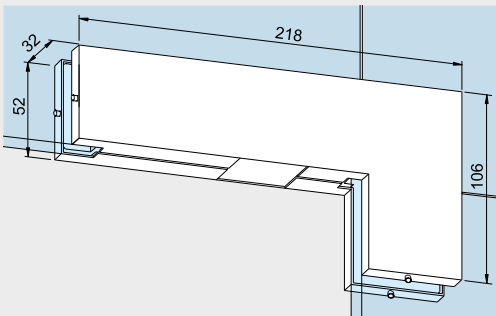
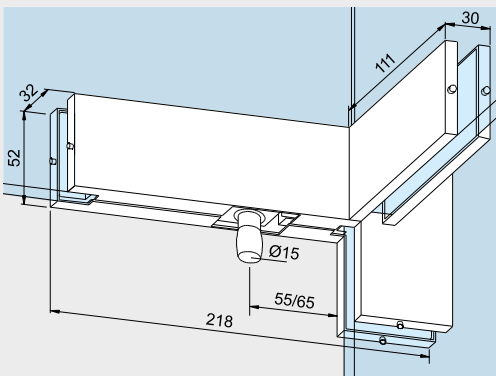
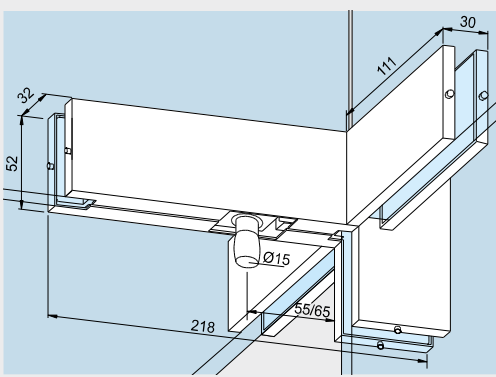


	Product description	Glass thickness	Art. No.
	<b>PT 29 UNIVERSAL</b> <b>Top patch</b> with pivot fixing plate, to countersink into ceiling (pivot point = 55 mm)	10 mm	<b>03.114</b>
	max. door width: 1,000 mm max. door weight: 70 kg  Weight in kg: Aluminum 0.544 Brass 0.692		
	<b>PT 30 UNIVERSAL</b> 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

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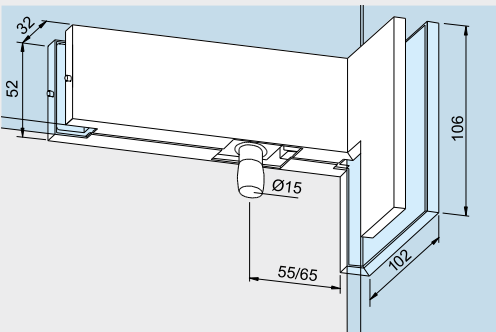
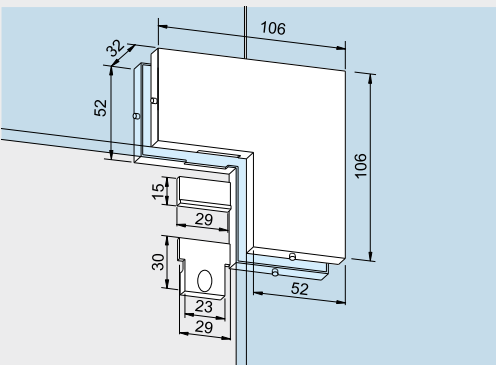
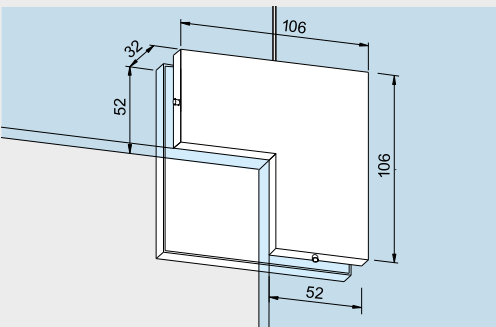
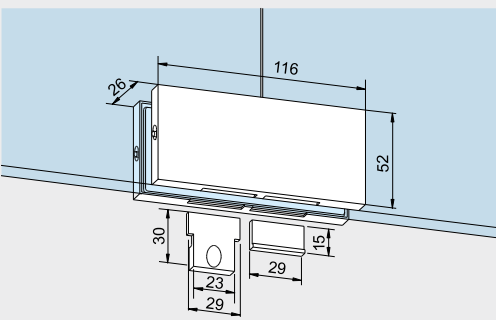
	Product description	Glass thickness	Art. No.
	<b>Fixing plate for overpanel patch PT 30 UNIVERSAL</b>  Weight in kg: Aluminum 0.016 Brass 0.038  Stainless steel not available, satin chrome on brass supplied.		<b>03.128</b>
	<b>Wall anchor</b> with thread M 8 for overpanel patch PT 30  Weight in kg: 0.040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

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

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

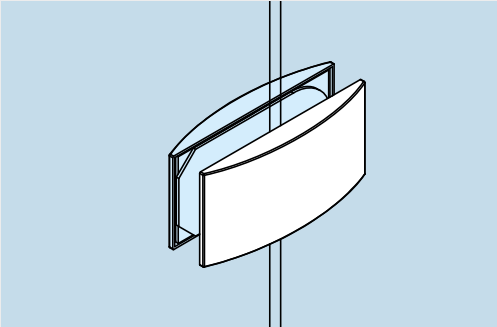
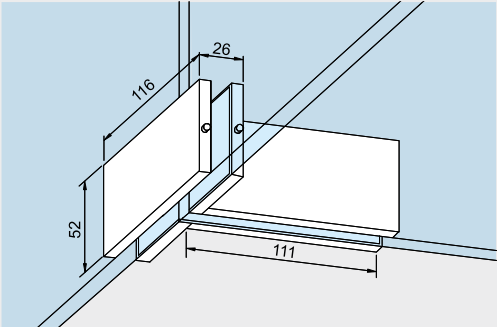
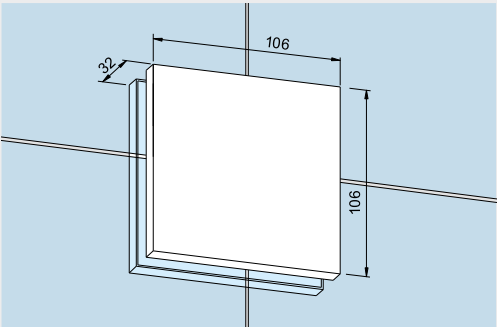
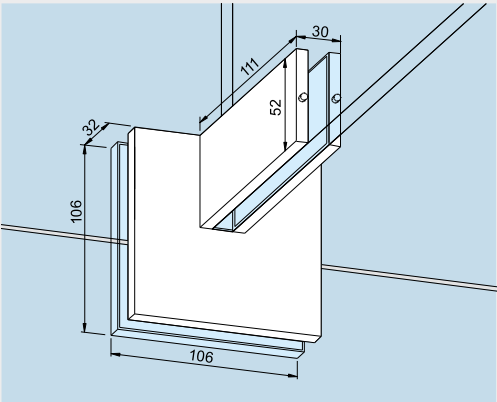
\* Suitable gaskets have to be used for systems with an 8 or 12 mm glass thickness. These are available on page 212.

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

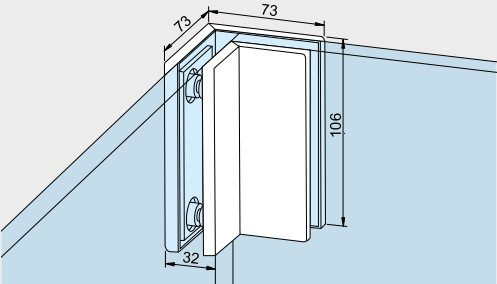
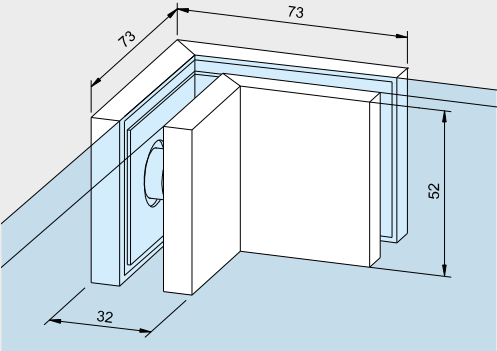
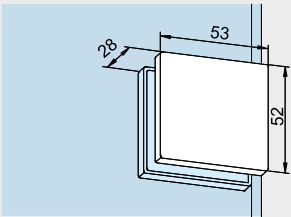
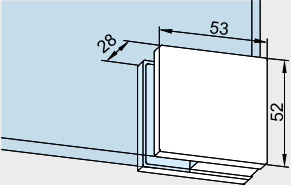
	Product description	Glass thickness	Art. No.
	<b>PT 42 UNIVERSAL</b> <b>Overpanel patch for single action doors</b> with angled connector inside, pivot 15 mm, angle 90°		<b>**03.164/</b> <b>03.165</b>
	<b>PT 60/61 UNIVERSAL</b> <b>Connector</b> for overpanel and sidelight, for double or single action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

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

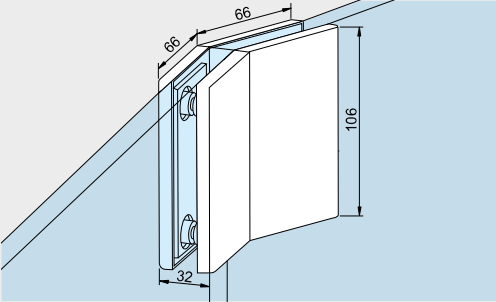
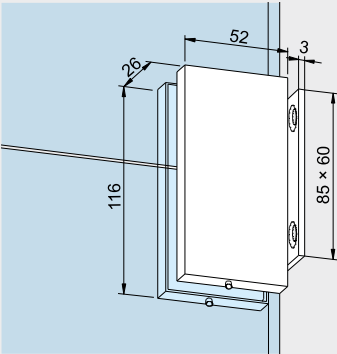
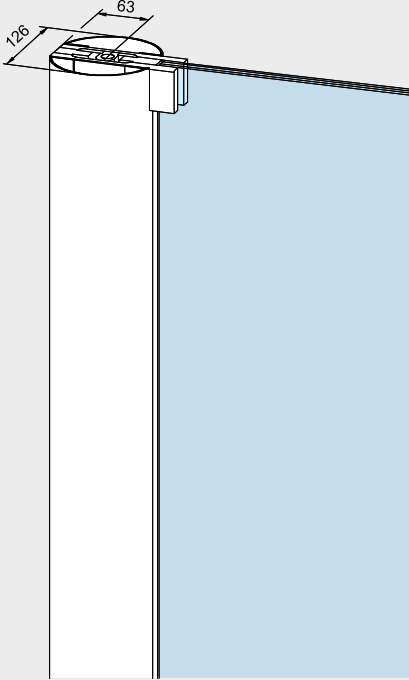
\*\* Left hand fin (illustration shows left hand) / right hand fin.  
 Left or right hand are determined by view from outside.

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

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

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

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

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

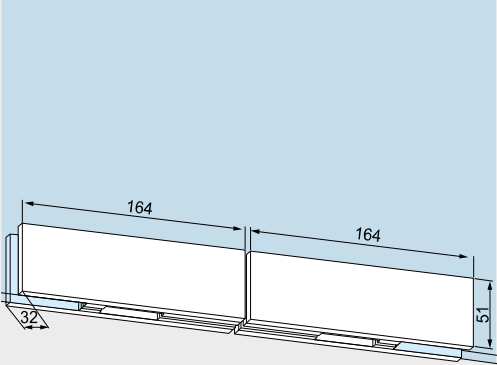
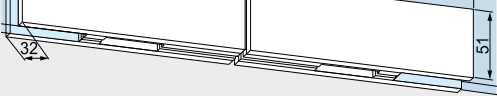
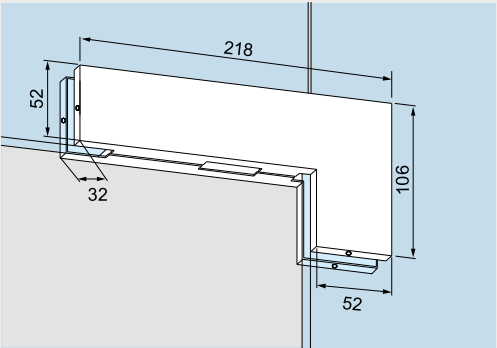
# Locks, complete for 10 mm glass thickness

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

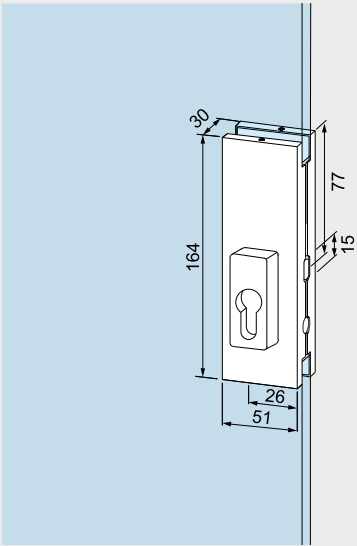
\* Left or right hand are determined by view from outside.

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

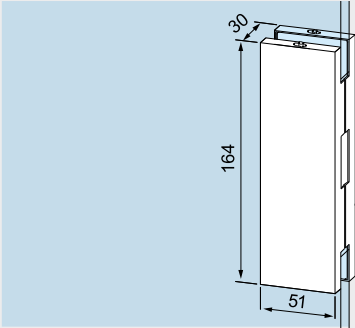


	Product description	Glass thickness	Art. No.
	<b>GK 20 UNIVERSAL</b> <b>Double overpanel</b> strike box to suit US 10 corner lock, consisting of two GK 30 with threaded connecting bolt		<b>03.245</b>
	<b>Weight in kg:</b> Aluminum 0.844 Brass 1.096 Stainless steel 0.948		
	<b>GK 20 UNIVERSAL with stop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

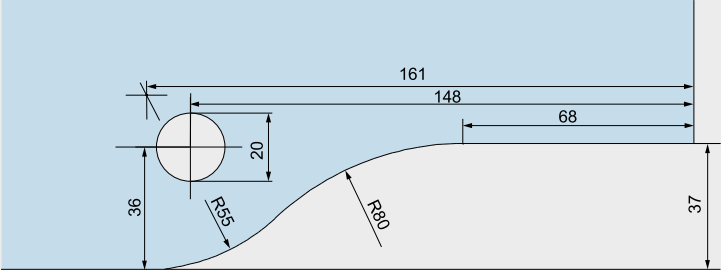
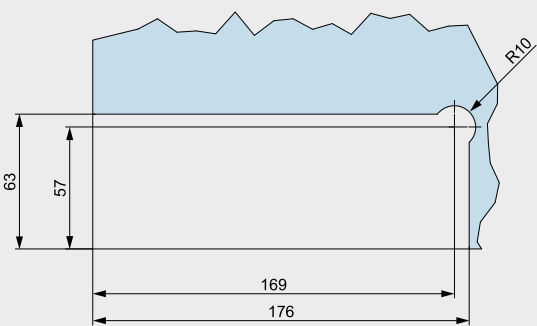
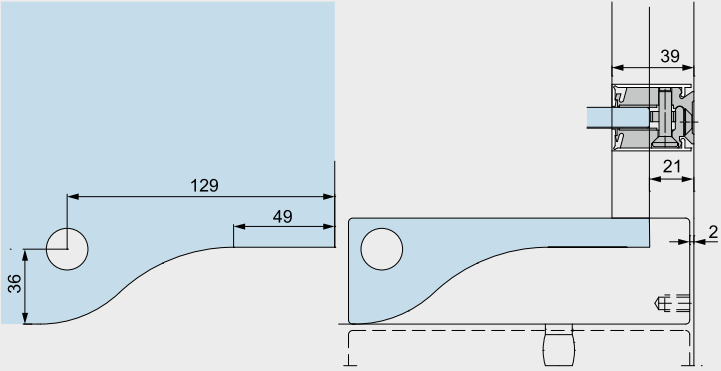
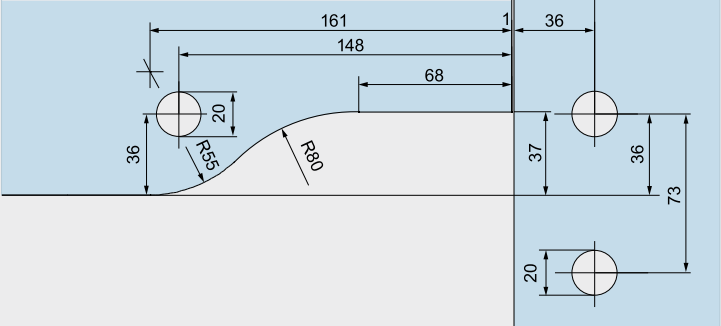
\* Order of Art. No.: left hand fin / right hand fin – determined by view from outside.  
(Illustration shows left hand)

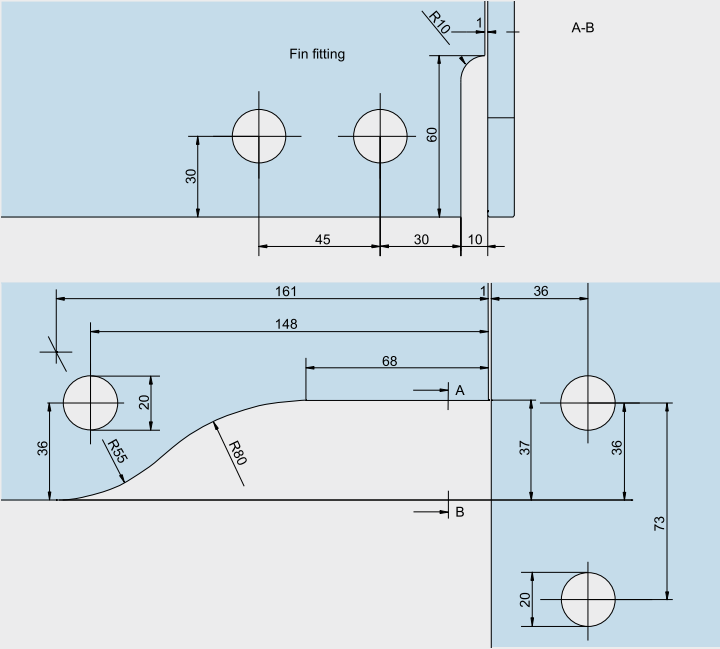
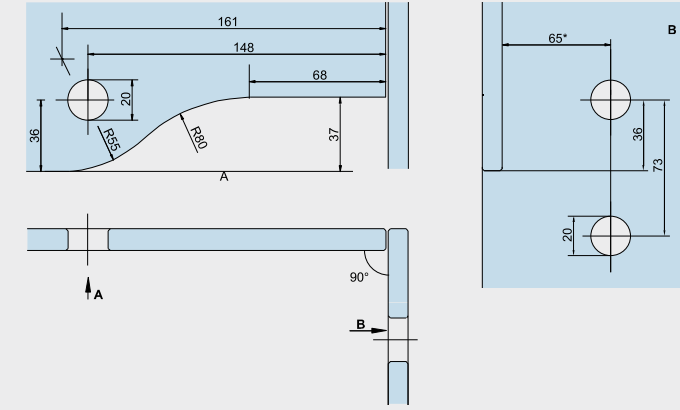
	Product description	Glass thickness	Art. No.
	<b>US 20 UNIVERSAL Centre lock,</b> prepared for Europrofile cylinder, single throw, bolt projection 20 mm, with security rosettes 14 mm thick.	10 mm	<b>03.215</b>
	Lock insert: <ul style="list-style-type: none"><li>• high corrosion resistance according to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

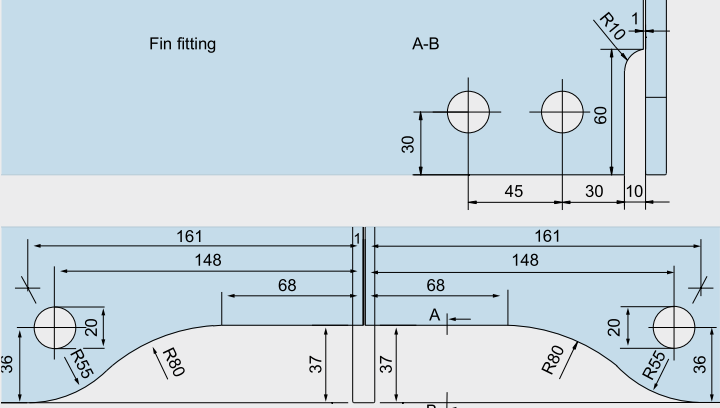
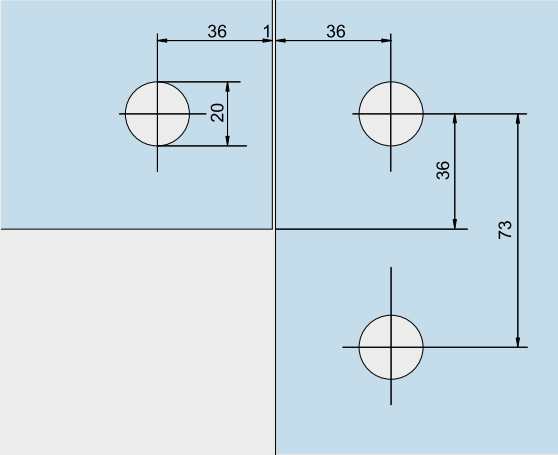
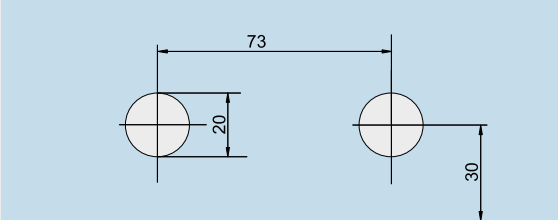
\* Left or right hand are determined by view from outside. (illustration shows left hand)  
\*\* Successful type testing according to EN 12209:2003 to 200,000 movement cycles.

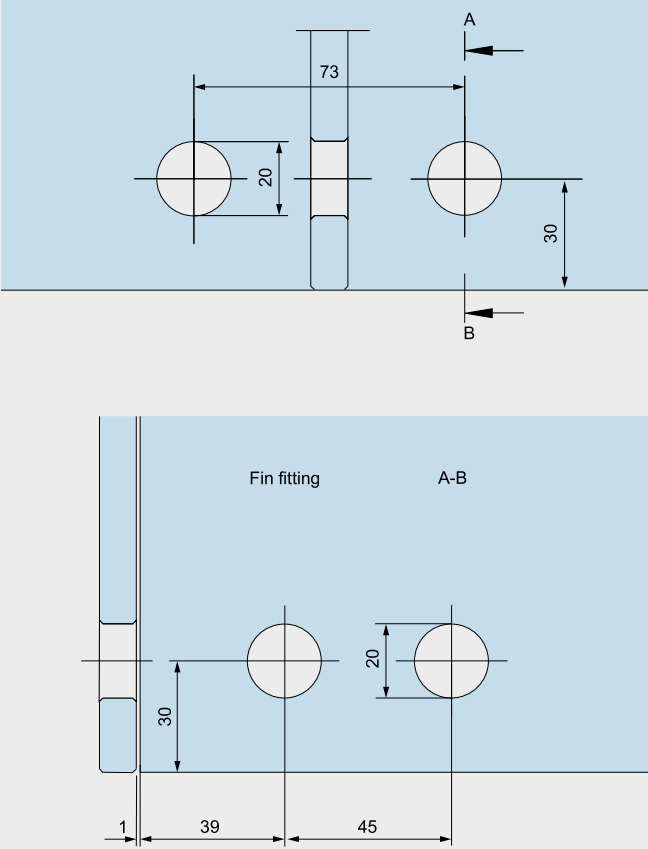
	Product description	Glass thickness	Art. No.
	<b>GK 50 UNIVERSAL</b> <b>Strike box</b> to suit US 20 centre lock	10 mm	<b>03.224</b>
	<b>With the order please indicate the exact glass thickness!</b>	13, 15, 19 mm	<b>03.296</b>
	Weight in kg: Aluminum 0.602 Brass 0.730 Stainless steel 0.727		

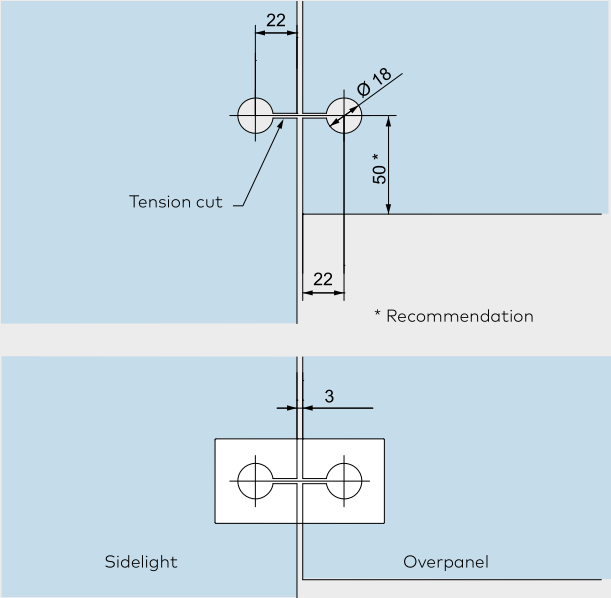
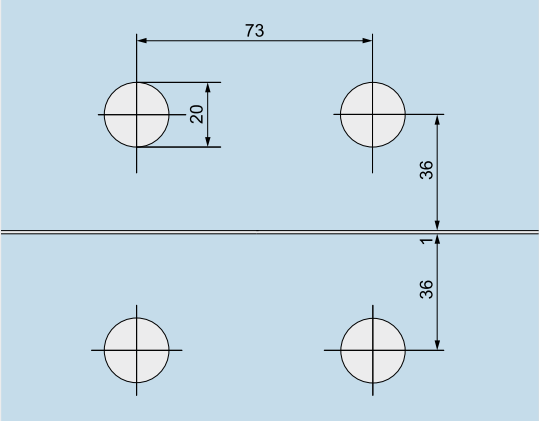
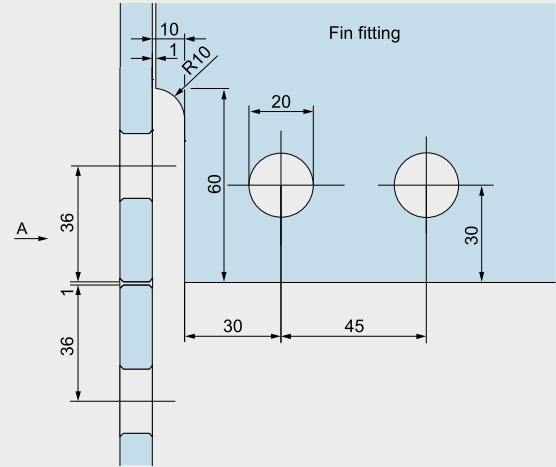
# Glass preparation fittings

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

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

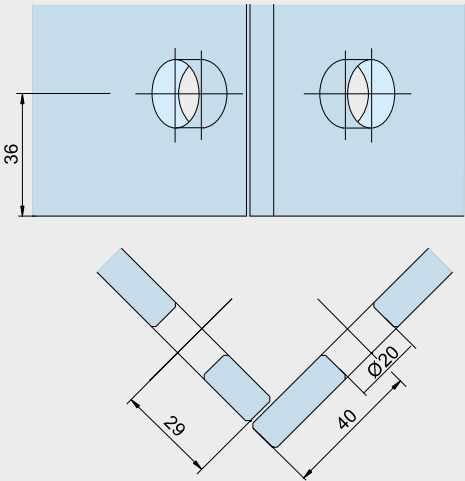
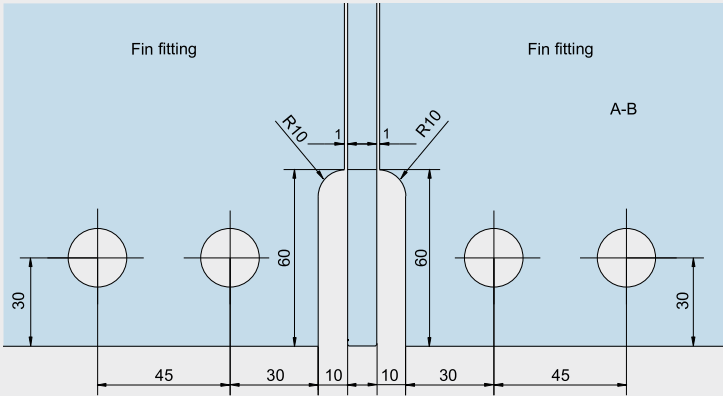
	Product description	Art. No.
	<p><b>PT 51</b> Overpanel fin fitting for back to back doors</p> <p><b>Scale 1 : 2.5</b></p>	<p><b>03.160</b></p>
	<p><b>PT 60/61, PT 62</b> <b>Winkelverbinding</b> Connectors for overpanels and sidelights</p> <p><b>Scale 1 : 2</b></p>	<p><b>03.150</b></p> <p><b>03.173</b>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

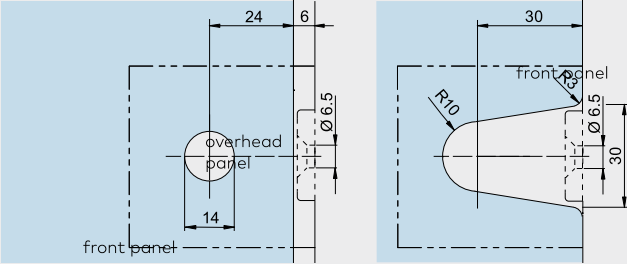
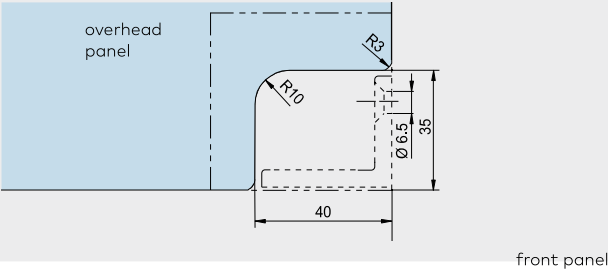
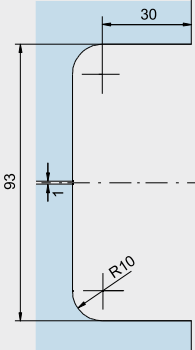
	Product description	Art. No.
	<p><b>PT 71</b> Overpanel connector with fin fitting</p> <p><b>Scale 1 : 2</b></p>	<b>01.161</b>

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

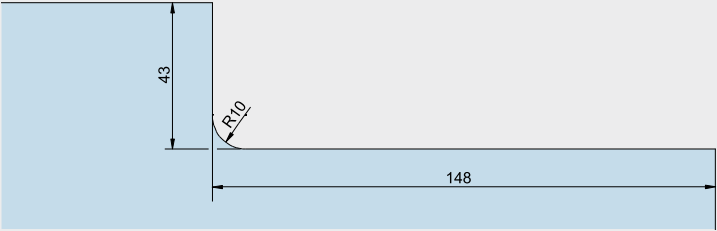
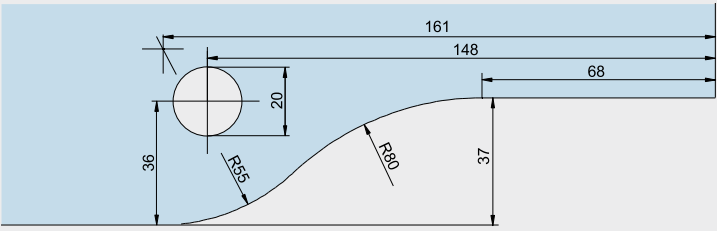
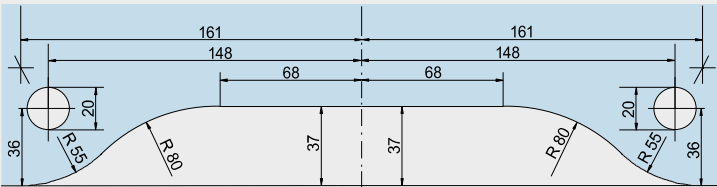
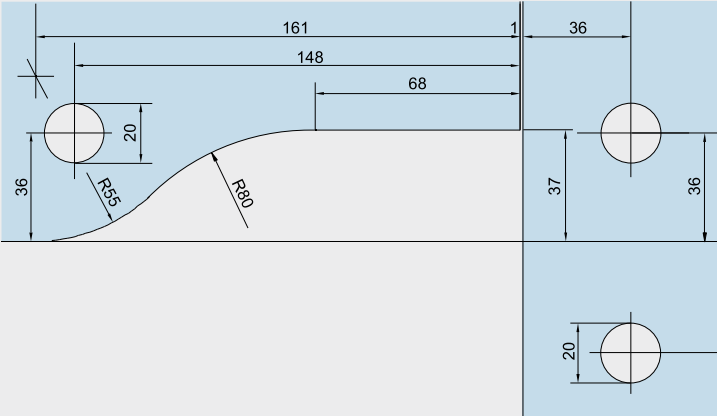


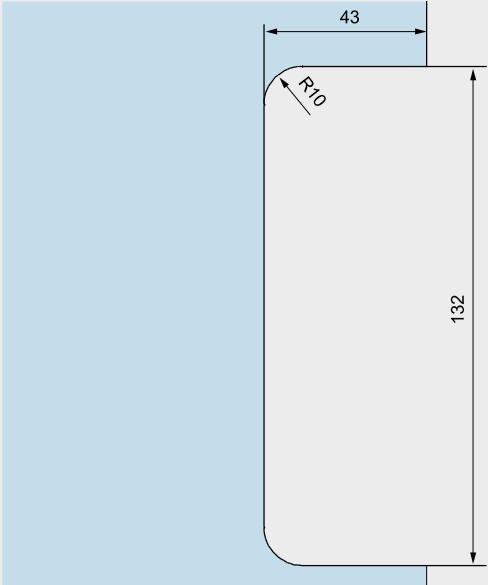
	Product description	Art. No.
	<p><b>PT 80</b> Angled connector, 90°</p> <p><b>Scale 1 : 2</b></p>	<b>03.171</b>
	<p><b>PT 80</b> Angled connector, 135°</p> <p><b>Scale 1 : 2</b></p>	<b>03.172</b>

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

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

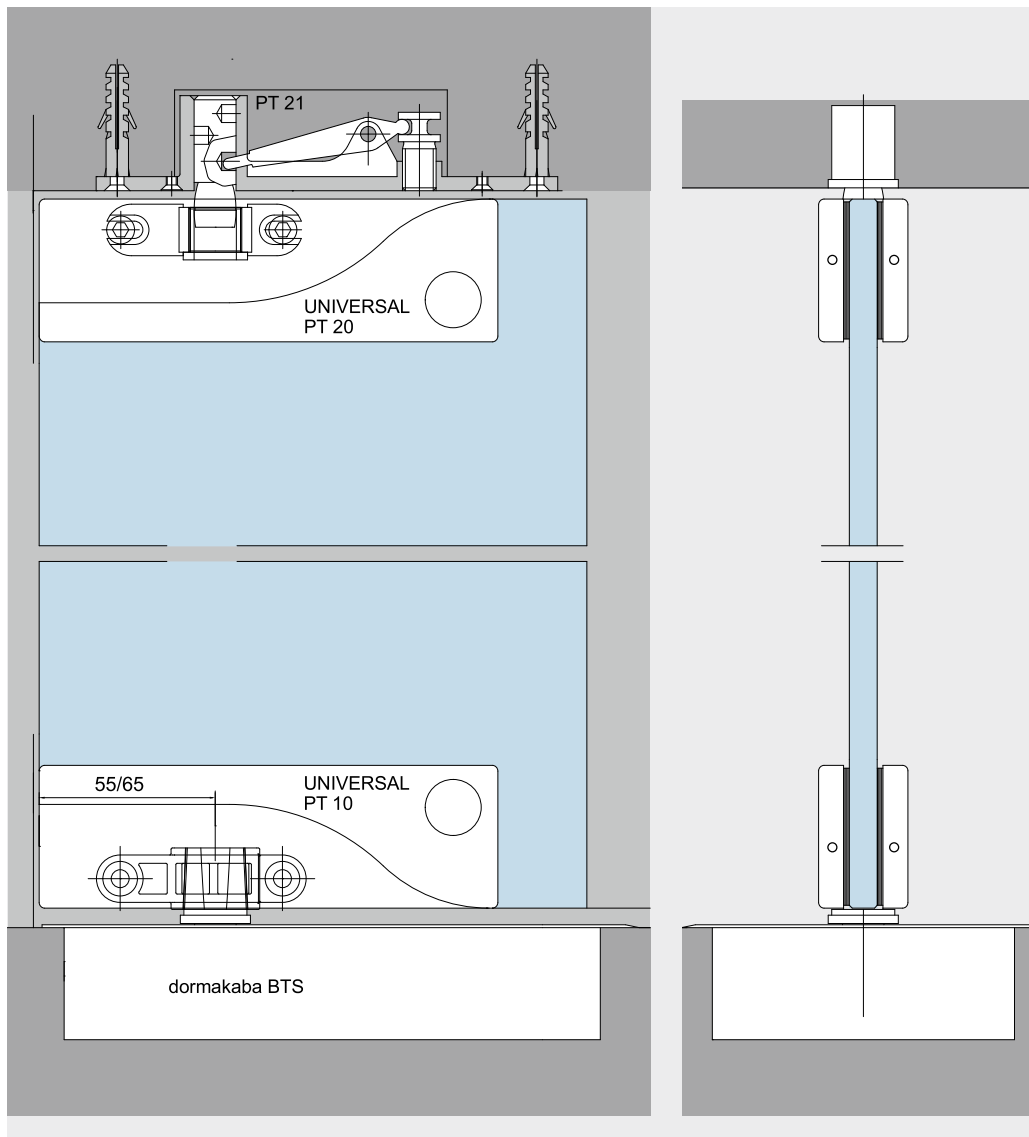
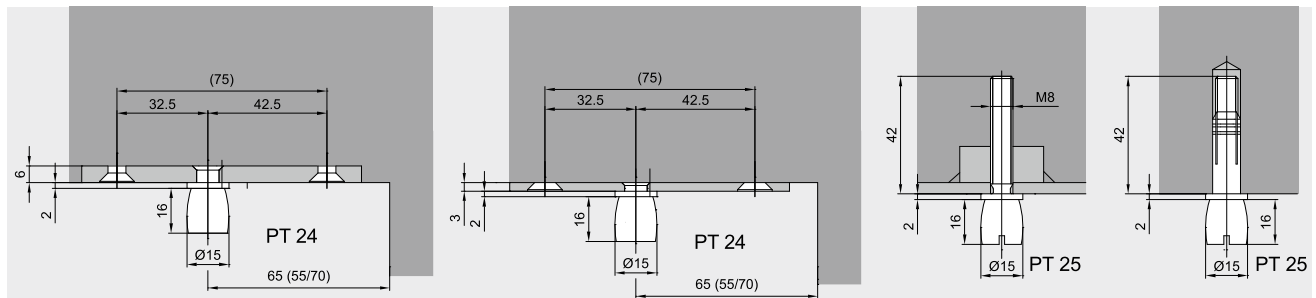
# Glass preparation locks

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

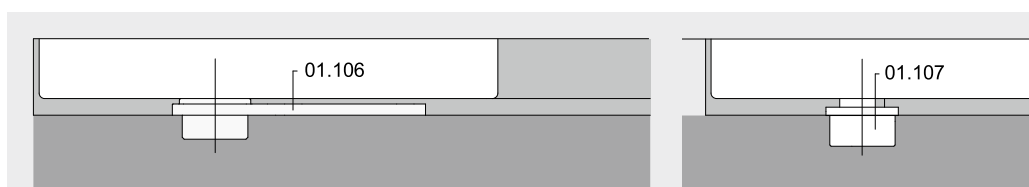
	Product description	Art. No.
	<b>US 20. GK 50</b>	<b>03.215</b>
	Centre lock	<b>03.345</b>
		<b>03.289</b>
		<b>03.290</b>
	and strike box to suit centre locks	<b>03.224</b>
	<b>Scale 1 : 2</b>	

# Installation details

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



Fixing of top pivots and top centres for PT 20.



Fixing of floor springs, pivot bearings for PT 10.