

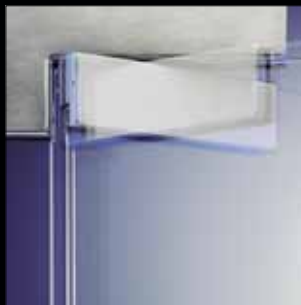
# Universal ARCOS EA

Patch Fittings





Product range  
4-5



**DORMA  
Universal**

6-25



**ARCOS  
Universal**

26-33



**DORMA EA**

34-39



**Accessories**

40-50

Metric/English  
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## DORMA Patch fittings for tempered glass assemblies

- +++ Particularly suitable  
 ++ Suitable  
 + Partially suitable
- Standard  
 ■ Optional
- 1 Under certain circumstances, also 5/8" and 3/4" glass thickness
- 2 Available upon request

Applications and features	DORMA Universal	ARCOS Universal	DORMA EA	Accessories
For external assemblies	+++	+++	+++	
For internal assemblies	+++	+++	+++	
For standard tempered glass assembly types	+++	+++	+++	
For individually designed assemblies with corner fittings, fin fittings, etc.	+++	+	+	+++
For double-action doors	●	●		
For single-action doors	●	●	●	
Glass thickness (in)	3/8" (10 mm), 1/2" (12 mm) <sup>1</sup>	3/8" (10 mm), 1/2" (12 mm) <sup>1</sup>	3/8" (10 mm), 1/2" (12 mm)	
Max. door weight (lb)	220 lb (100 kg)	220 lb (100 kg)	220 lb (100 kg)	
Max. door width (in)	43" (1100 mm)	43" (1100 mm)	43" (1100 mm)	
<b>Materials and finishes</b>				
Aluminum, mill finish (100)				
Aluminum, silver anodized, EV1, CO (101)	■		■	
Aluminum, dark bronze anodized DB14, MC1003, C34 (108)	■		■	
Aluminum, EV1 deco (114)		■		
Bespoke color anodizing (199)	■		■	
Aluminum, white powder coated, similar to RAL 9016 (300)	■ <sup>2</sup>	■ <sup>2</sup>	■ <sup>2</sup>	
Bespoke powder coating (399)	■ <sup>2</sup>		■ <sup>2</sup>	
Brass, Polished (503)	■	■ <sup>2</sup>	■	
Brass, satin chrome plated (500)	■		■	
Stainless steel, satin (700)	■	■		
Stainless steel, Polish (701)	■	■		
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DORMA Glas offers one of the most comprehensive ranges of patch fittings available today, providing tempered glass assemblies that are technically sound and visually attractive. This range gives the architect or designer a wide variety of creative options for expression with tempered glass—either internally or externally.

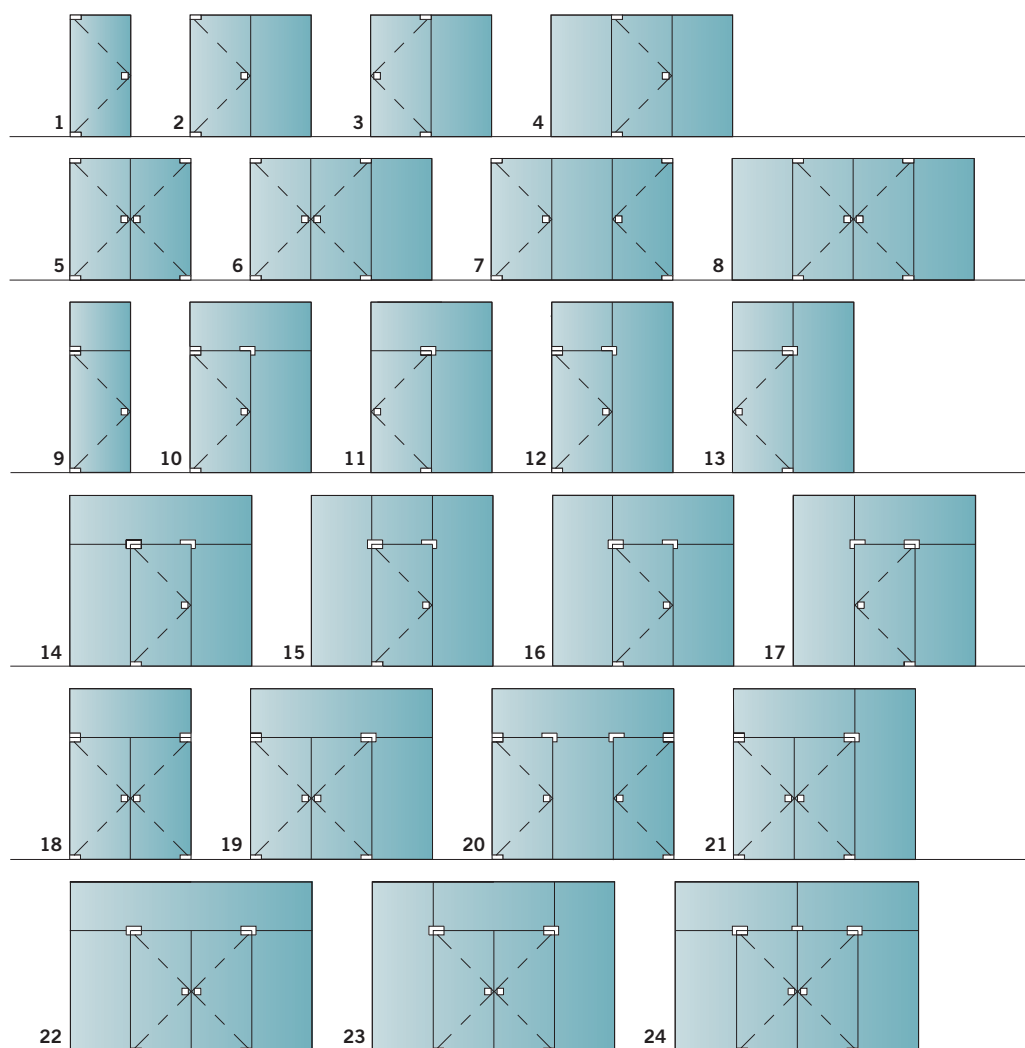
All DORMA fittings are based on a modular system, consisting of a base unit, functional inserts, and clip-on covers in a wide range of finishes. Glass preparations are quick and easy. Quality materials and thorough workmanship guarantee a long service life and a reflection of excellence for years to come.

#### 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 (anodized finishes, stainless steel), please use only appropriate cleaning agents without abrasive additives.

- For varnished surfaces, please use only appropriate solvent-free cleaning agents.
- Brass surfaces (without surface protection) have to be treated occasionally with an appropriate maintenance agent to avoid tarnishing.



DORMA  
Universal



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## DORMA Universal ... as the name says

With their broad range of options and configurations, DORMA Universal patch fittings are ideal for almost any design. Tempered glass assemblies are provided with fixed parts in a variety of 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 understands the special properties of glass as a building material, designing fittings that require only minimal glass preparation—a quick and easy cut-out with additional holes. Careful consideration and positive measures have been taken to

create the maximum clamping surface with optimum clamping efficiency.

### **Suitable for common glass thicknesses**

DORMA Universal fittings are available for 3/8" (10 mm) and 1/2" (12 mm) glass thicknesses. Some fittings even accommodate 5/8" (15 mm) and 3/4" (19 mm) inch glass.

### **Reliability built in**

Quality materials and thorough workmanship mean that DORMA Universal fittings have the features necessary to meet the most demanding specifications. The fittings are designed to withstand large and heavy doors up to a maximum weight of 275 lb (125 kg). Rails are available

for heavier doors (330 lb [150 kg] maximum), wider doors (48" [1219 mm] maximum), and high traffic doors.

### **Matching range of locks**

The DORMA 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 options to choose from. Contact Customer Service for more details.

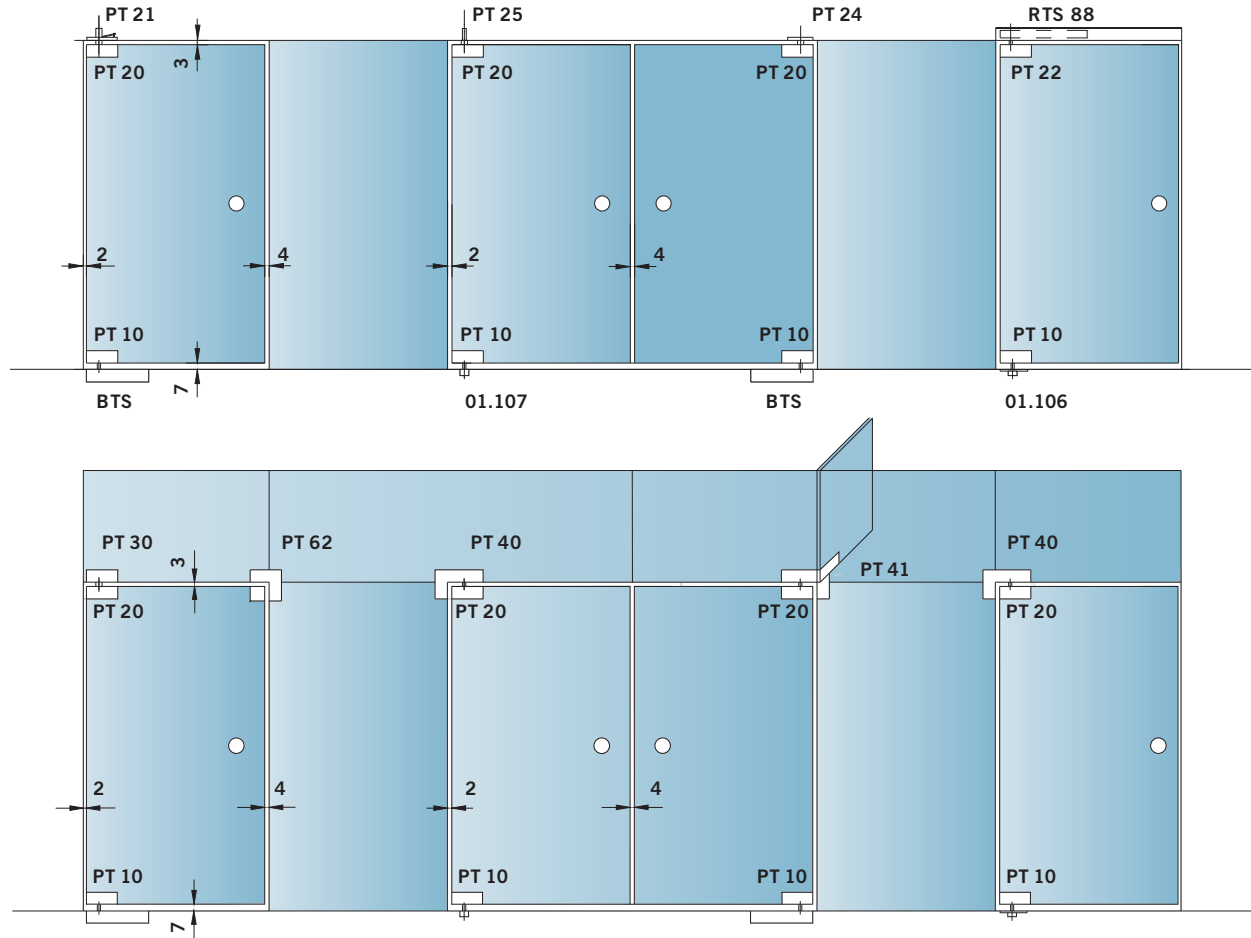
### **Short delivery times**

All typical patterns and types are available from factory stock. Special orders will be prepared promptly.



## Type selection

Tempered glass assemblies with fittings (2-3/4") pivot point. All standard assembly types see page 5.



BTS = Floor spring  
PT = Center hung door fittings  
RTS = Transom closer  
(see Technical Information DORMA RTS Series for details)

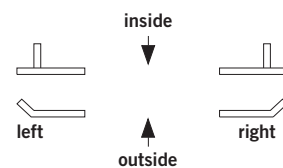
**Maximum door weight and width for DORMA Universal fittings**

Max. door weight:  
275 lb (125 kg)  
Max. door width:  
48" (1219 mm)  
For door weights up to 330 lb (150 kg) and widths up to 48" (1219 mm), DRS door rails should be used.

**Torque for fixing screws**

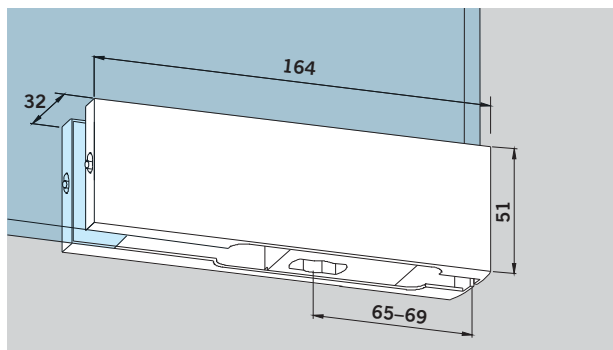
Screws M 6:  
7.5 lb-ft / 10 Nm (4 mm)\*  
Screws M 6:  
11 lb-ft / 15 Nm (5 mm)\*  
Screws M 8:  
15 lb-ft / 20 Nm (5 mm)\*  
\*Allan key size

**Please note: If angle fittings or fin fittings are used:**  
"Left" or "Right" has to be determined in any case by view from outside and above.





## Patch fittings

**PT 10 bottom patch**

with insert for DORMA floor  
closer, pivot, or round pivot  
14 mm Ø

- 3/8" (10 mm) glass

**Art. No. 833.300**

- 1/2" (12 mm) glass

**Art. No. 833.100**

- 5/8" (15 mm) glass

**Art. No. 833.301**

- 3/4" (19 mm) glass

**Art. No. 833.101**

**Pivot location:**

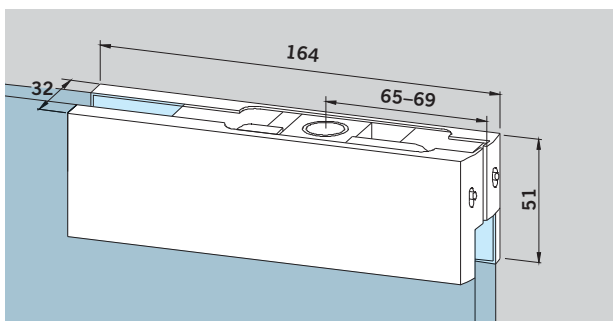
**2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum 1.241 (0.564)

Brass 1.496 (0.680)

Stainless steel  
1.456 (0.662)

**PT 20 top patch**

with safety insert for top  
pivot 15 mm Ø

- 3/8" (10 mm) glass

**Art. No. 833.310**

- 1/2" (12 mm) glass

**Art. No. 833.110**

- 5/8" (15 mm) glass

**Art. No. 833.311**

- 3/4" (19 mm) glass

**Art. No. 833.111**

**Pivot location:**

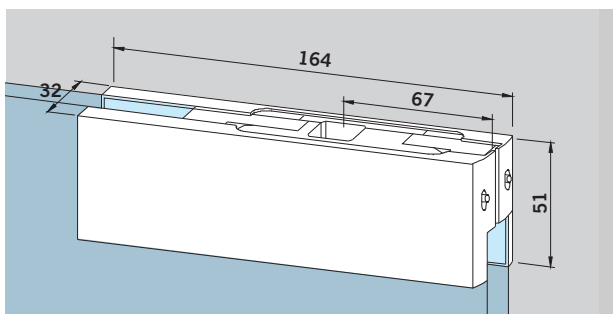
**2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum 1.049 (0.477)

Brass 1.305 (0.593)

Stainless steel  
1.265 (0.575)

**PT 22 top patch**

with insert for DORMA RTS  
concealed overhead closer

- 3/8" (10 mm) glass

**Art. No. 833.312**

- 1/2" (12 mm) glass

**Art. No. 833.112**

- 5/8" (15 mm) glass

**Art. No. 833.313**

- 3/4" (19 mm) glass

**Art. No. 833.113**

**Pivot location:**

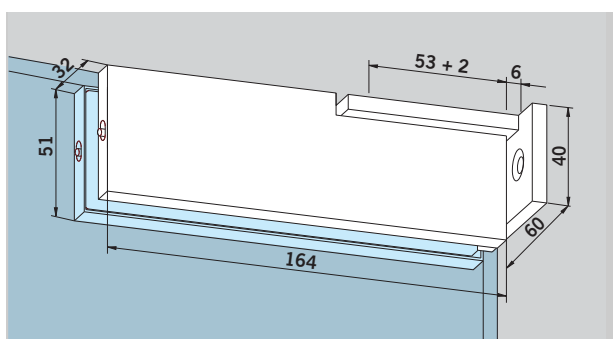
**2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum 1.272 (0.578)

Brass 1.529 (0.695)

Stainless steel  
1.489 (0.677)

**PT 29 top patch**

with pivot fixing plate,  
wall mount

- 3/8" (10 mm) glass:

**Art. No. 833.314**

- 1/2" (12 mm) glass:

**Art. No. 833.109**

- 5/8" (15 mm) glass:

**Art. No. n/a**

- 3/4" (19 mm) glass:

**Art. No. n/a**

**Pivot location:**

**2-3/16" (55 mm)**

Weight in lb (kg):

Aluminum 1.197 (0.544)

Brass 1.522 (0.692)

Stainless steel  
1.483 (0.674)

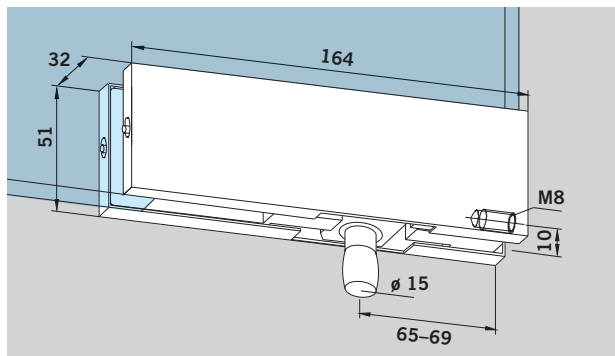
Max. door width:

39" (1000 mm)

Max. door weight:

155 lb (70 kg)

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.



**PT 30 transom patch**  
 with pivot 15 mm Ø, with  
 M8 tapped hole at side

- 3/8" (10 mm) glass

**Art. No. 833.330**

- 1/2" (12 mm) glass

**Art. No. 833.131**

- 5/8" (15 mm) glass

**Art. No. 833.321**

- 3/4" (19 mm) glass

**Art. No. 833.121**

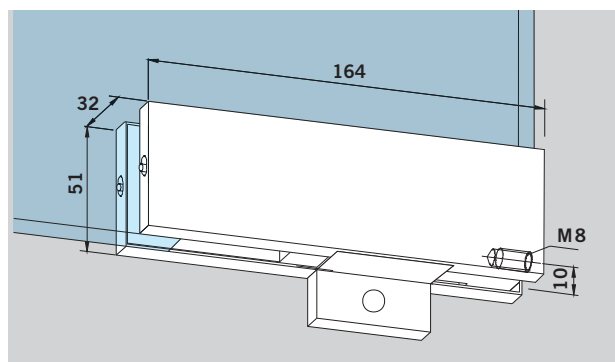
**Pivot location:**  
**2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum 1.162 (0.528)

Brass 1.439 (0.654)

Stainless steel  
 1.399 (0.636)



**PT 30 transom patch**  
 with stop insert, with M8  
 tapped hole at side

- 3/8" (10 mm) glass

**Art. No. 833.332**

- 1/2" (12 mm) glass

**Art. No. 833.132**

- 5/8" (15 mm) glass

**Art. No. 833.333**

- 3/4" (19 mm) glass

**Art. No. 833.133**

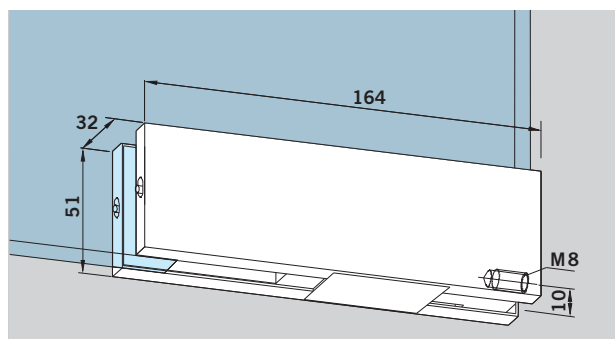
**Pivot location:**  
**2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum 1.162 (0.528)

Brass 1.439 (0.654)

Stainless steel  
 1.276 (0.580)



**PT 30 transom patch**  
 with blank insert, with M8  
 tapped hole at side

- 3/8" (10 mm) glass

**Art. No. 833.334**

- 1/2" (12 mm) glass

**Art. No. 833.134**

- 5/8" (15 mm) glass

**Art. No. 833.335**

- 3/4" (19 mm) glass

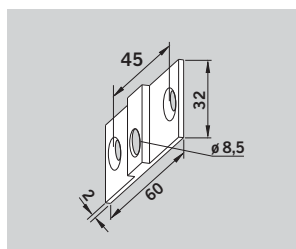
**Art. No. 833.135**

Weight in lb (kg):

Aluminum 1.142 (0.519)

Brass 1.419 (0.645)

Stainless steel  
 1.256 (0.571)



**Fixing plate** for overpanel  
 patch PT 30

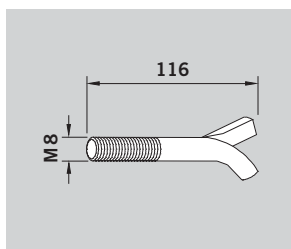
**Art. No. 803.128**

Weight in lb (kg):

Aluminum 0.035 (0.016)

Brass 0.084 (0.038)

Stainless Steel not available,  
 Satin Chrome on Brass supplied.

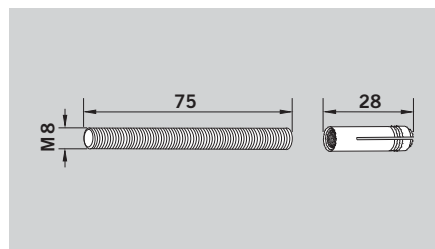


**Wall anchor** with thread M 8  
 for overpanel patch PT 30

**Art. No. 801.133**

Weight in lb (kg):

0.088 (0.040)

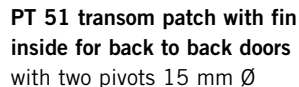


**Threaded rod** M 8 with plug  
 for overpanel patch PT 30

**Art. No. 801.134**

Weight in lb (kg):

0.070 (0.032)

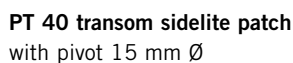


- 3/8" (10 mm) glass  
**Art. No. 833.368**
- 1/2" (12 mm) glass  
**Art. No. 833.168**
- 5/8" (15 mm) glass  
**Art. No. 833.369**
- 3/4" (19 mm) glass  
**Art. No. 833.169**

**Pivot location:**  
**2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum	2.858 (1.299)
Brass	3.546 (1.612)
Stainless steel	3.467 (1.576)

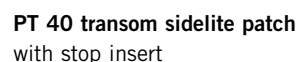


- 3/8" (10 mm) glass  
**Art. No. 833.343**
- 1/2" (12 mm) glass  
**Art. No. 833.143**
- 5/8" (15 mm) glass  
**Art. No. 833.344**
- 3/4" (19 mm) glass  
**Art. No. 833.144**

**Pivot location:**  
**2-3/4" (70 mm)**

Weight in lb (kg):

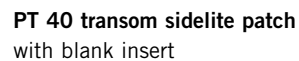
Aluminum	2.955 (0.755)
Brass	2.108 (0.958)
Stainless steel	2.061 (0.937)



- 3/8" (10 mm) glass  
**Art. No. 833.336**
- 1/2" (12 mm) glass  
**Art. No. 833.136**
- 5/8" (15 mm) glass  
**Art. No. 833.337**
- 3/4" (19 mm) glass  
**Art. No. 833.137**

Weight in lb (kg):

Aluminum	1.661 (0.755)
Brass	2.108 (0.958)
Stainless steel	2.061 (0.937)

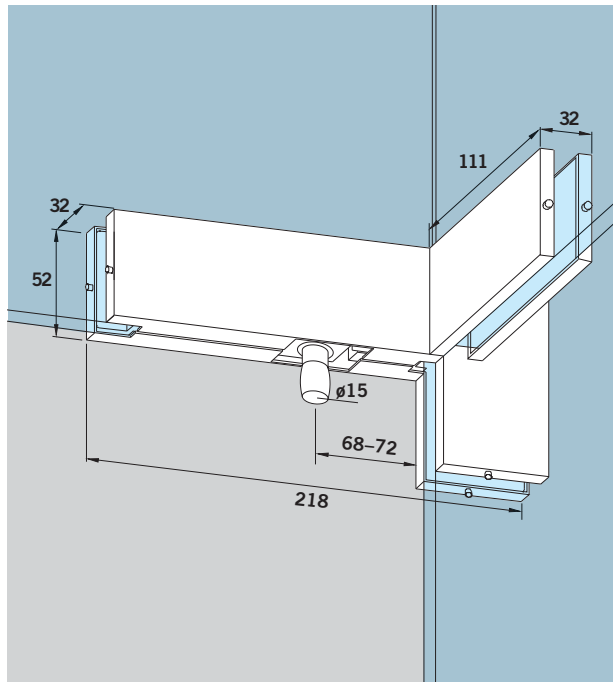


- 3/8" (10 mm) glass  
**Art. No. 833.338**
- 1/2" (12 mm) glass  
**Art. No. 833.138**
- 5/8" (15 mm) glass  
**Art. No. 833.339**
- 3/4" (19 mm) glass  
**Art. No. 833.139**

Weight in lb (kg):

Aluminum	1.641 (0.746)
Brass	2.088 (0.949)
Stainless steel	2.042 (0.928)

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**PT 41 transom sidelite patch with fin fitting inside**

with pivot 15 mm Ø (shown)

- 3/8" (10 mm) glass:  
**Art. No. \*833.355/833.354**
- 1/2" (12 mm) glass:  
**Art. No. \*833.155/833.154**
- 5/8" (15 mm) glass:  
**Art. No. \*833.356/833.357**
- 3/4" (19 mm) glass:  
**Art. No. \*833.156/833.157**

**Pivot location:  
2-3/4" (70 mm)**

Weight in lb (kg):

Aluminum	2.094 (0.952)
Brass	2.708 (1.231)
Stainless steel	2.633 (1.197)

**PT 41 transom sidelite patch with fin fitting inside**

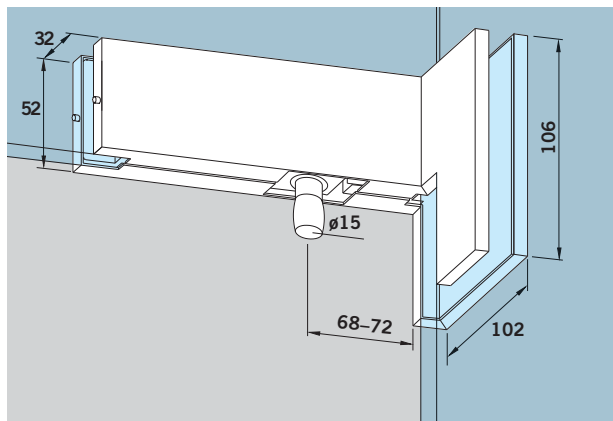
with stop insert (not shown)

- 3/8" (10 mm) glass:  
**Art. No. \*833.391/833.393**
- 1/2" (12 mm) glass:  
**Art. No. \*833.191/833.193**
- 5/8" (15 mm) glass:  
**Art. No. \*833.392/833.394**
- 3/4" (19 mm) glass:  
**Art. No. \*833.192/833.194**

**PT 41 transom sidelite patch with fin fitting inside**

with blank insert (not shown)

- 3/8" (10 mm) glass:  
**Art. No. \*833.395/833.397**
- 1/2" (12 mm) glass:  
**Art. No. \*833.195/833.197**
- 5/8" (15 mm) glass:  
**Art. No. \*833.396/833.398**
- 3/4" (19 mm) glass:  
**Art. No. \*833.196/833.198**

**PT 42 transom sidelite patch with angled connector inside,**

pivot 15 mm Ø, angle 90° (shown)

- 3/8" (10 mm) glass:  
**Art. No. \*833.364/833.365**
- 1/2" (12 mm) glass:  
**Art. No. \*833.164/833.165**
- 5/8" (15 mm) glass:  
**Art. No. \*833.384/833.385**
- 3/4" (19 mm) glass:  
**Art. No. \*833.184/833.185**

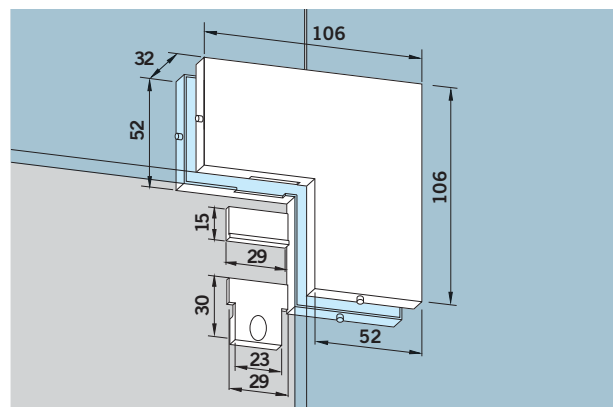
**Pivot location:  
2-3/4" (70 mm)****PT 42 transom sidelite patch with angled connector inside,**

pivot 15 mm Ø, angle 135° (not shown)

- 3/8" (10 mm) glass:  
**Art. No. \*833.366/833.367**
- 1/2" (12 mm) glass:  
**Art. No. \*833.166/833.167**
- 5/8" (15 mm) glass:  
**Art. No. \*833.386/833.387**
- 3/4" (19 mm) glass:  
**Art. No. \*833.186/833.187**

Weight in lb (kg):

Aluminum	1.940 (0.882)
Brass	2.438 (1.108)
Stainless steel	3.259 (1.059)

**PT 60/61 transom sidelite connector**

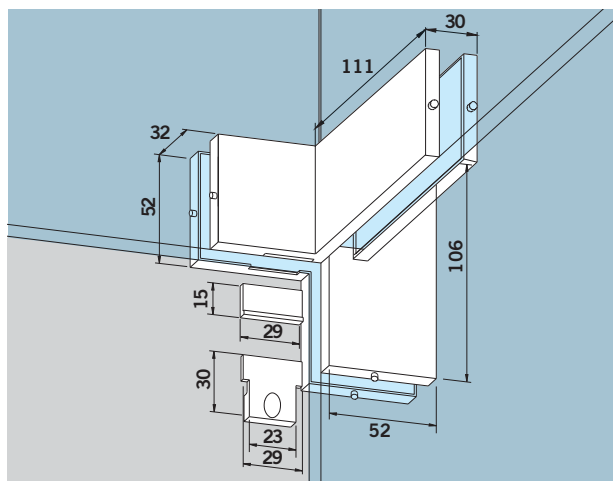
for double or single acting doors, includes 1 stop and 2 blank inserts

- 3/8" (10 mm) glass:  
**Art. No. 803.150**
- 1/2" (12 mm) glass:  
**Art. No. 803.150**
- 5/8" (15 mm) glass:  
**Art. No. 803.452**  
specify glass thickness
- 3/4" (19 mm) glass:  
**Art. No. 803.452**  
specify glass thickness

Weight in lb (kg):

Aluminum	0.755 (0.343)
Brass	1.014 (0.461)
Stainless steel	0.959 (0.436)

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



**PT 60/61 transom sidelite connector with fin fitting inside**

for double or single acting doors, includes 1 stop and 2 blank inserts

- 3/8" (10 mm) glass:

**Art. No. 803.158/803.157**

- 1/2" (12 mm) glass:

**Art. No. 803.158/803.157**

- 5/8" (15 mm) glass:

**Art. No. n/a**

- 3/4" (19 mm) glass:

**Art. No. n/a**

Weight in lb (kg):

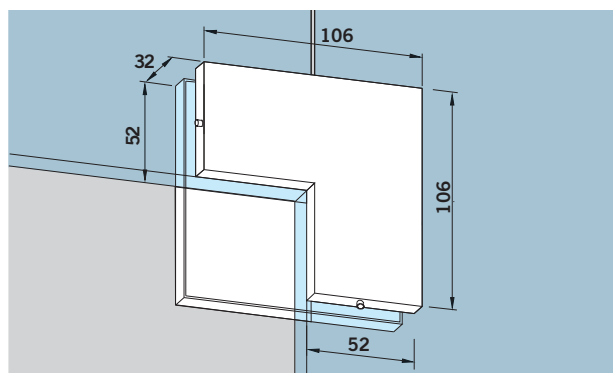
Aluminum 0.986 (0.448)

Brass 1.415 (0.643)

Stainless steel 1.320 (0.600)

Left hand fin (illustration shows left hand) / Right hand fin.

Left or right hand is determined by view from outside.



**PT 62 transom sidelite connector with fixed stop**

- 3/8" (10 mm) glass:

**Art. No. 803.173**

- 1/2" (12 mm) glass:

**Art. No. 803.173**

- 5/8" (15 mm) glass:

**Art. No. n/a**

- 3/4" (19 mm) glass:

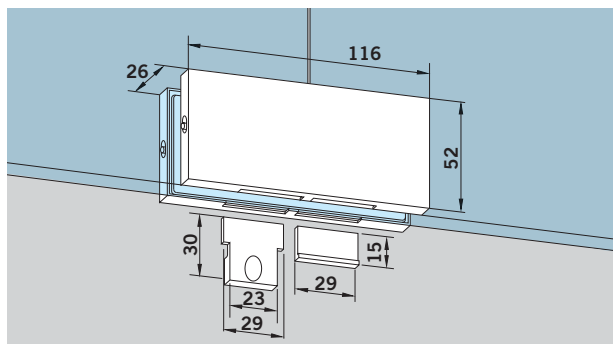
**Art. No. n/a**

Weight in lb (kg):

Aluminum 1.045 (0.475)

Brass 1.507 (0.685)

Stainless steel 1.474 (0.670)



**PT 70 transom connector**

includes 2 stop and 2 blank inserts

- 3/8" (10 mm) glass:

**Art. No. 801.150**

- 1/2" (12 mm) glass:

**Art. No. 801.150**

- 5/8" (15 mm) glass:

**Art. No. 801.158**

**specify glass thickness**

- 3/4" (19 mm) glass:

**Art. No. 803.158**

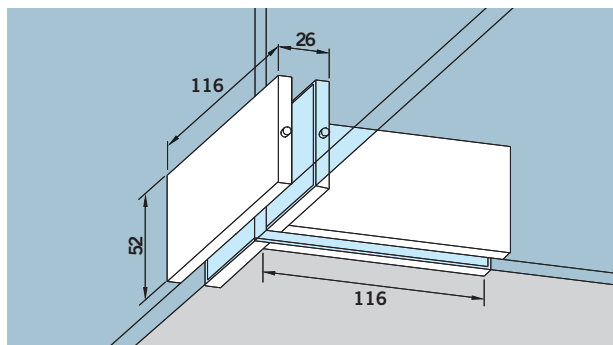
**specify glass thickness**

Weight in lb (kg):

Aluminum 0.598 (0.272)

Brass 0.766 (0.348)

Stainless steel 0.737 (0.335)



**PT 71 transom connector with fin fitting**

- 3/8" (10 mm) glass:

**Art. No. 801.161**

- 1/2" (12 mm) glass:

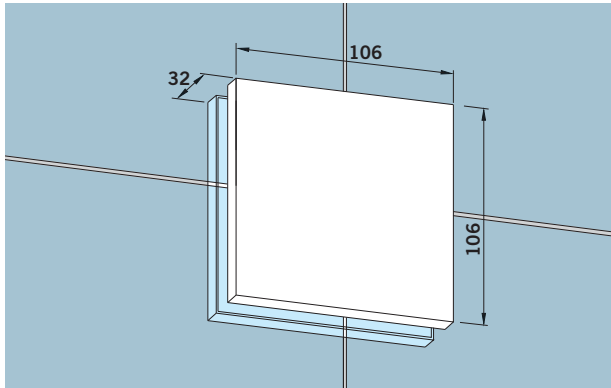
**Art. No. 801.161**

Weight in lb (kg):

Aluminum 1.008 (0.458)

Brass 1.375 (0.625)

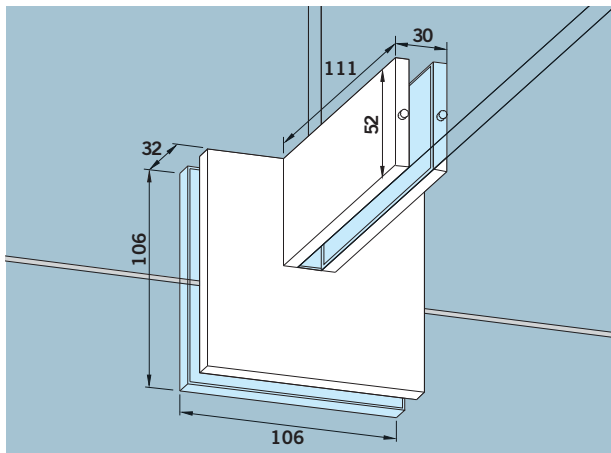
Stainless steel 1.338 (0.608)

**PT 80 connector**

- 3/8" (10 mm) glass:  
**Art. No. 803.170**
- 1/2" (12 mm) glass:  
**Art. No. 803.170**
- 5/8" (15 mm) glass:  
**Art. No. 803.472**  
specify glass thickness
- 3/4" (19 mm) glass:  
**Art. No. 803.472**  
specify glass thickness

Weight in lb (kg):

Aluminum	1.221 (0.555)
Brass	1.760 (0.800)
Stainless steel	1.716 (0.780)

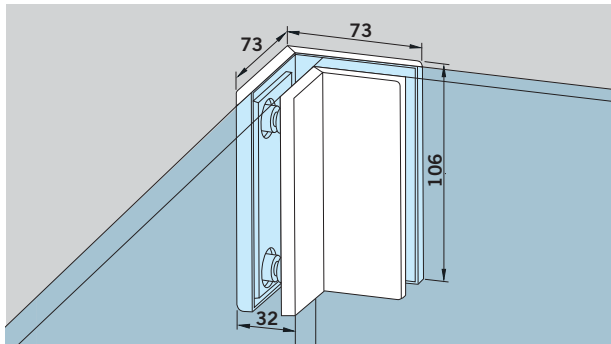
**PT 81 connector**

with fin fitting

- 3/8" (10 mm) glass:  
**Art. No. 803.175**
- 1/2" (12 mm) glass:  
**Art. No. 803.175**

Weight in lb (kg):

Aluminum	1.725 (0.784)
Brass	2.372 (1.078)
Stainless steel	2.343 (1.065)

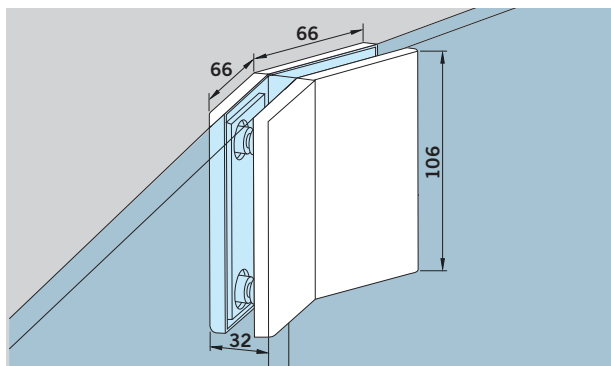
**PT 80 connector**

angled 90°

- 3/8" (10 mm) glass:  
**Art. No. 803.171**
- 1/2" (12 mm) glass:  
**Art. No. 803.171**

Weight in lb (kg):

Aluminum	1.027 (0.467)
Brass	1.232 (0.560)
Stainless steel	1.188 (0.540)

**PT 80 connector**

angled 135°

- 3/8" (10 mm) glass:  
**Art. No. 803.172**
- 1/2" (12 mm) glass:  
**Art. No. 803.172**

Weight in lb (kg):

Aluminum	1.038 (0.472)
Brass	1.232 (0.560)
Stainless steel	1.190 (0.541)

**PT 80 connector**

angled 91°– 134° and

angled 136°– 179°

(specify angle when ordering)  
(not shown)

- 3/8" (10 mm) glass:

**Art. No. 803.178**

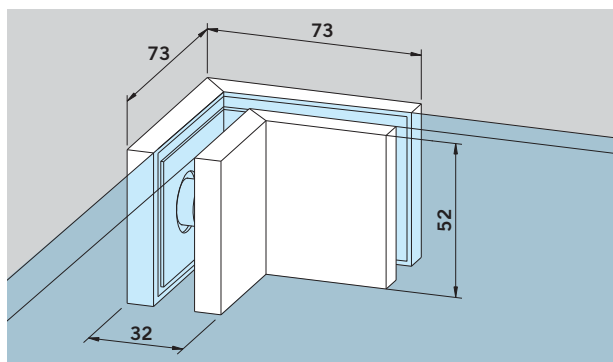
- 1/2" (12 mm) glass:

**Art. No. 803.178**

Weight in lb (kg):

Aluminum	1.038 (0.472)
Brass	1.232 (0.560)
Stainless steel	1.190 (0.541)





**PT 80 connector,**  
shortened, angle 90°

- 3/8" (10 mm) glass:

**Art. No. 803.470**

- 1/2" (12 mm) glass:

**Art. No. 803.470**

Weight in lb (kg):

Aluminum 0.519 (0.236)

Brass 0.616 (0.280)

Stainless steel  
0.594 (0.270)

**PT 80 connector,**  
angle 91°–134°/136–179°  
(specify angle with ordering)  
(not shown)

- 3/8" (10 mm) glass:

**Art. No. 803.179**

- 1/2" (12 mm) glass:

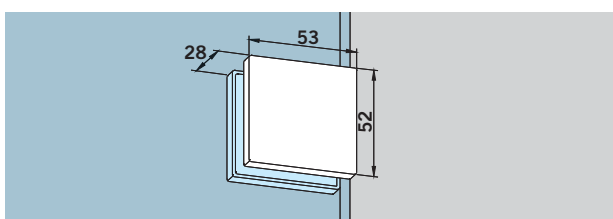
**Art. No. 803.179**

Weight in lb (kg):

Aluminum 0.519 (0.236)

Brass 0.616 (0.280)

Stainless steel  
0.594 (0.270)



**PT 90 screw on fitting**

- 3/8" (10 mm) glass:

**Art. No. 807.021**

- 1/2" (12 mm) glass:

**Art. No. 807.021**

- 5/8" (15 mm) glass:

**Art. No. 807.210**

**Specify glass thickness**

- 3/4" (19 mm) glass:

**Art. No. 807.210**

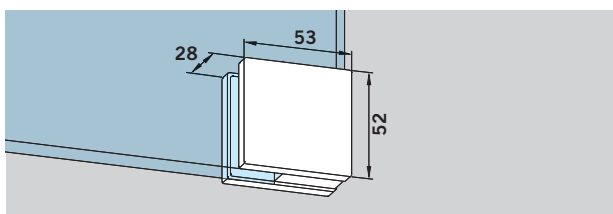
**Specify glass thickness**

Weight in lb (kg):

Aluminum 0.264 (0.120)

Brass 0.352 (0.160)

Stainless steel  
0.341 (0.155)



**PT 91 corner fitting**

- 3/8" (10 mm) glass:

**Art. No. 807.023**

- 1/2" (12 mm) glass:

**Art. No. 807.023**

- 5/8" (15 mm) glass:

**Art. No. 807.211**

**Specify glass thickness**

- 3/4" (19 mm) glass:

**Art. No. 807.211**

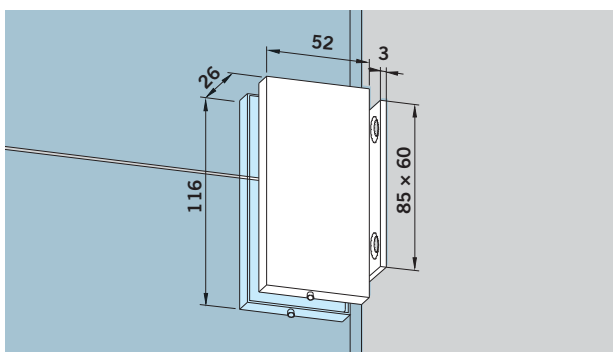
**Specify glass thickness**

Weight in lb (kg):

Aluminum 0.264 (0.120)

Brass 0.352 (0.160)

Stainless steel  
0.341 (0.155)



**Side connector**

with wall mounting plate

- 3/8" (10 mm) glass:

**Art. No. 801.153**

- 1/2" (12 mm) glass:

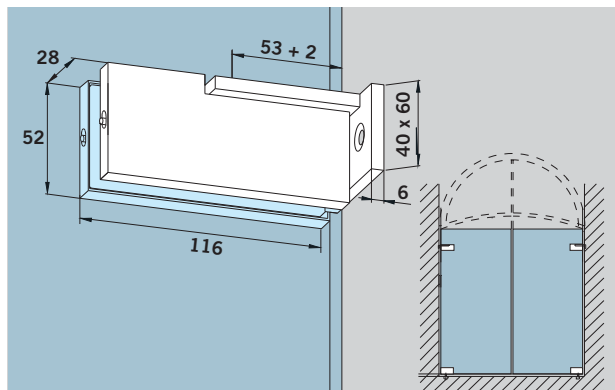
**Art. No. 801.153**

Weight in lb (kg):

Aluminum 0.689 (0.313)

Brass 0.856 (0.389)

Stainless steel  
0.827 (0.376)

**Center hung patch fitting\***

for arched doors,  
opening angle max. 90°,  
wall fixing, masonry

- 3/8" (10 mm) glass:

**Art. No. 801.250**

Max. door width:  
39" (1000 mm)  
Max. door weight:  
155 lb (70 kg)

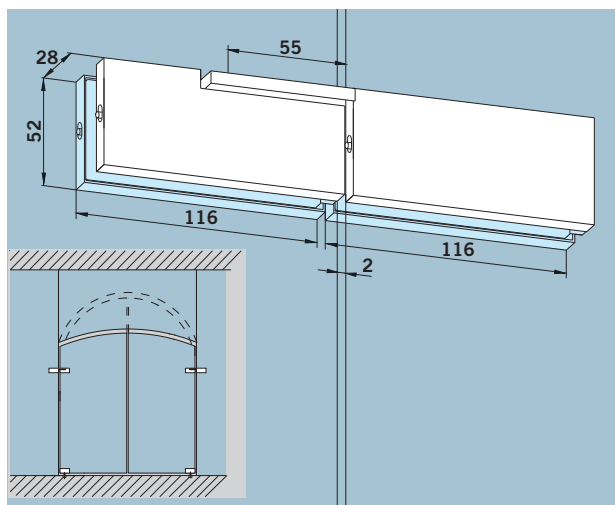
Weight in lb (kg):

Aluminum 0.772 (0.351)

Brass 0.942 (0.428)

**Pivot location:**

**2-3/16" (55 mm)**

**Center hung patch fitting\***

for arched doors,  
opening angle max. 90°,  
glass to glass fixing

- 3/8" (10 mm) glass:

**Art. No. 801.251**

Max. door width:  
39" (1000 mm)  
Max. door weight:  
155 lb (70 kg)

Weight in lb (kg):

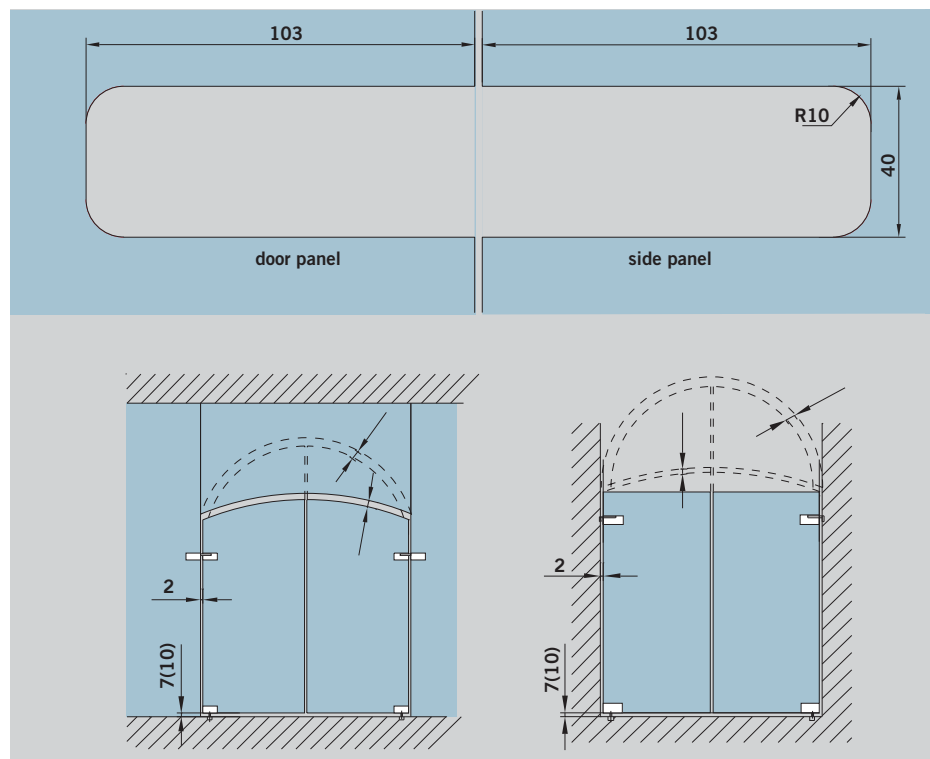
Aluminum 1.256 (0.571)

Brass 1.681 (0.764)

**Pivot location:**

**2-3/16" (55 mm)**

**\*Notice top door gap  
(see below)**

**Center hung patch fittings**

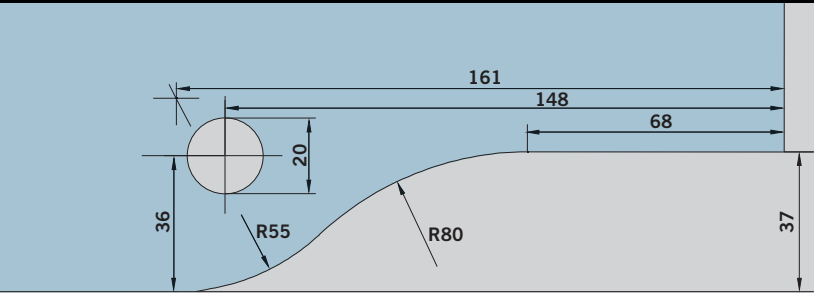
with 2-3/16" (55 mm) pivot  
point for arched doors

**Art. No. 801.250, 801.251**

**Scale 1 : 2**

An additional narrow frame  
should be used on double-  
acting doors with a clearance  
between door and soffit.  
The specification of the  
necessary clearance above  
the door depends on the  
radius of the arc and the  
soffit depth.

PT 10, PT 20, PT 22, PT 29, PT 30

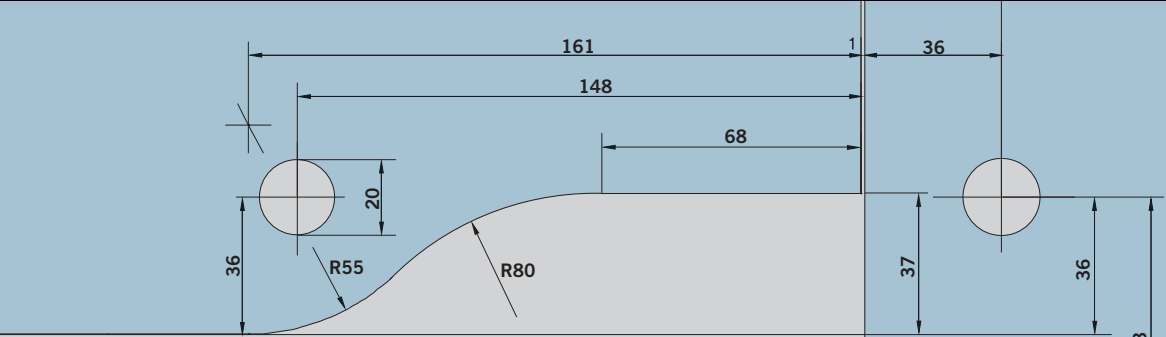


Top and bottom patches,  
overpanel patch

Scale 1 : 2

Art. No.	833.300	833.310	833.312	803.114	833.330	833.332	833.334
	833.100	833.110	833.112	833.109	833.131	833.132	833.134
	833.301	833.311	833.313		833.321	833.333	833.335
	833.101	833.111	833.113		833.121	833.133	833.135

PT 40



Patch for overpanel and sidelite

Scale 1 : 2

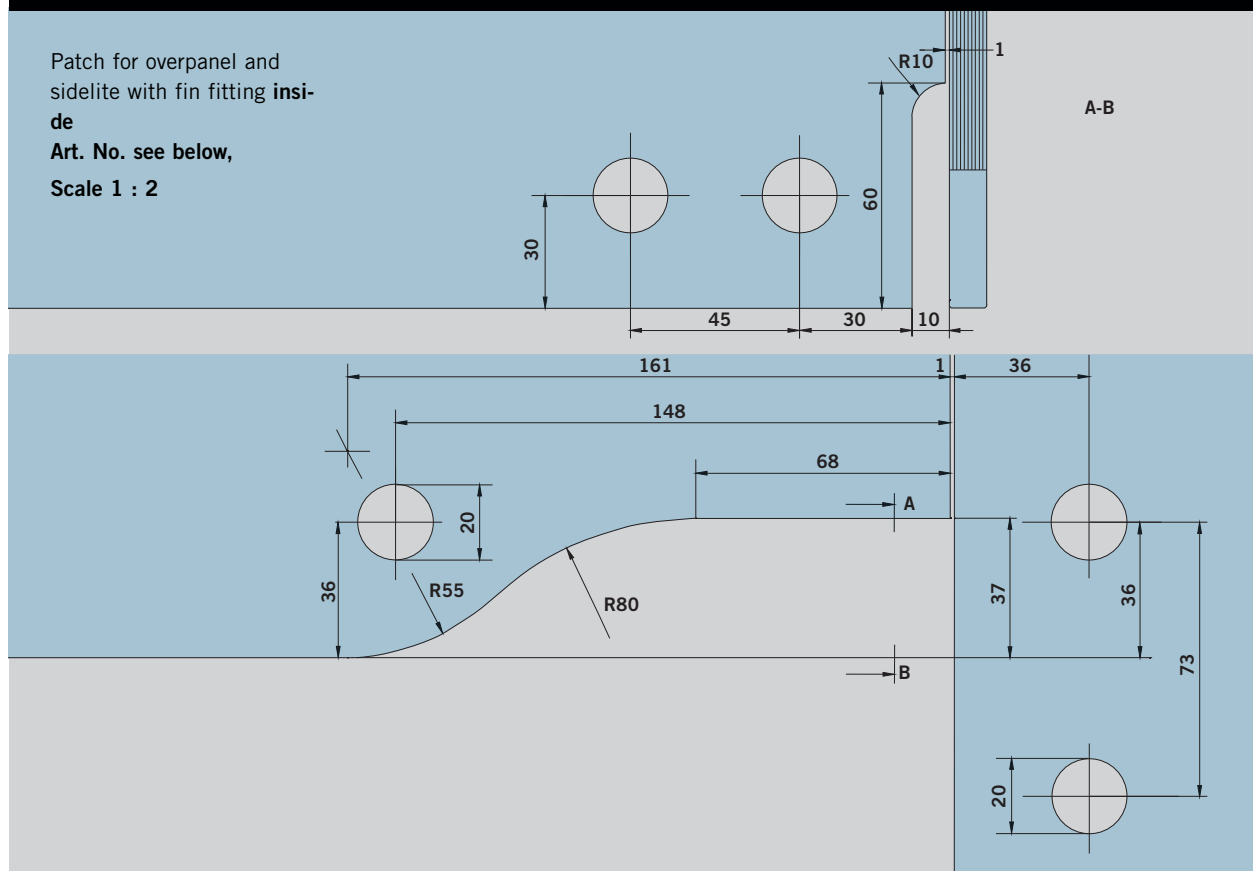
Art. No.	833.343	833.333	833.335
	833.143	833.133	833.135
	833.344	833.334	833.336
	833.144	833.134	833.136

## PT 41

Patch for overpanel and  
sidelite with fin fitting **inside**

Art. No. see below,

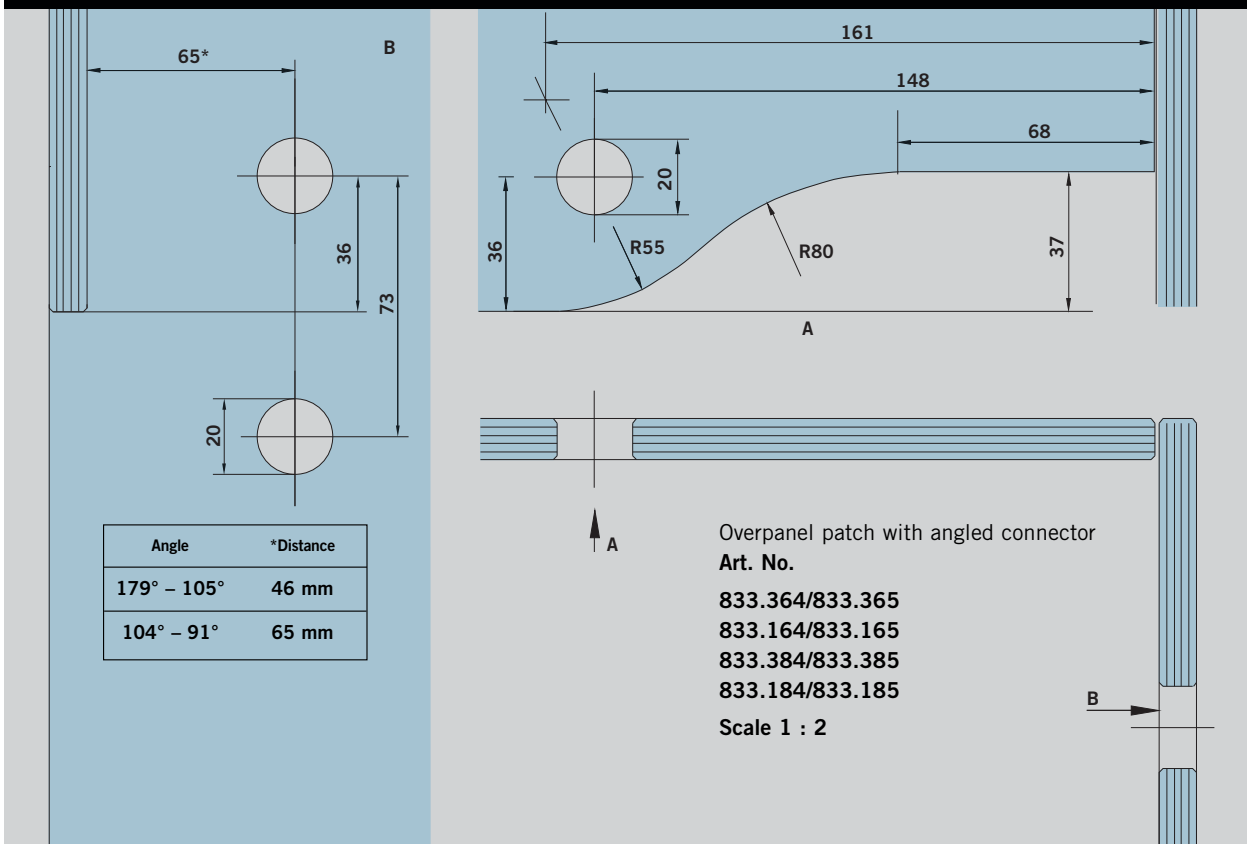
Scale 1 : 2



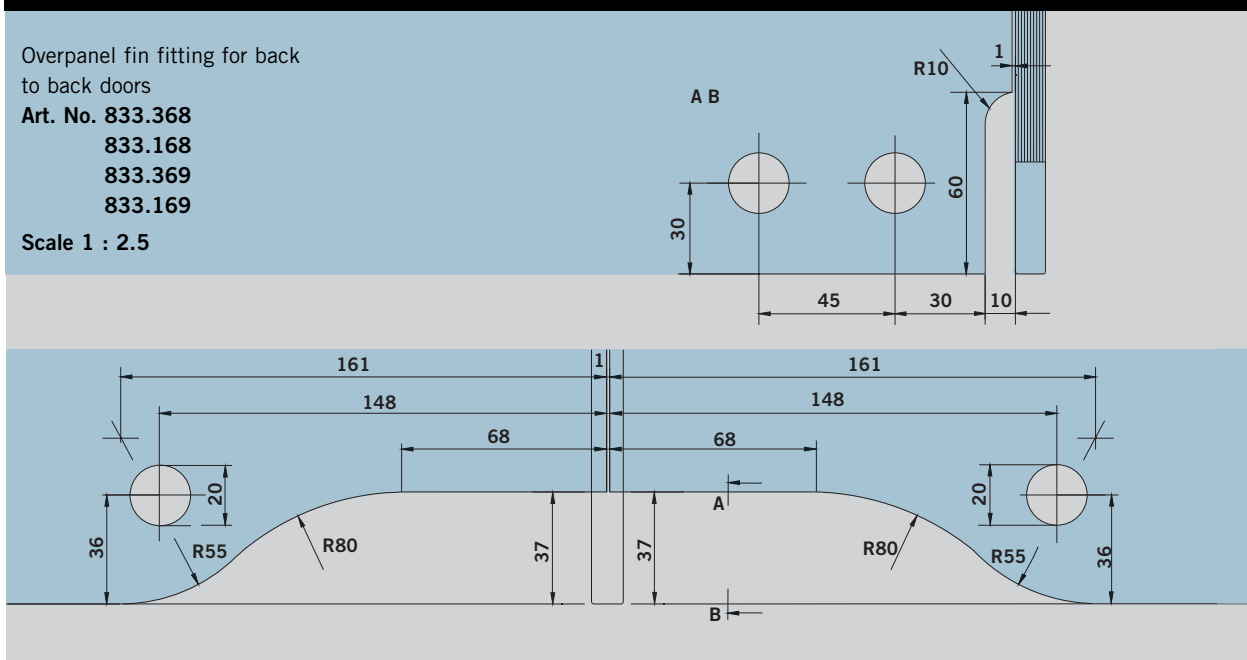
Art. No.

833.355/833.354	833.391/833.393	833.395/833.397
833.155/833.154	833.191/833.193	833.195/833.197
833.356/833.357	833.392/833.394	833.396/833.398
833.156/833.157	833.192/833.194	833.196/833.198

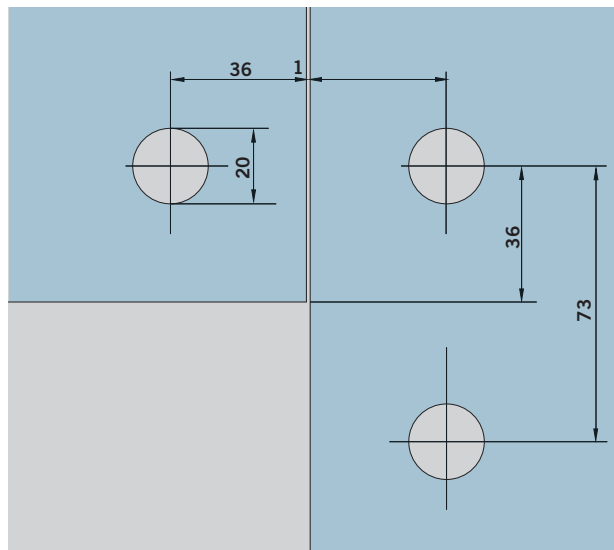
# PT 42



# PT 51



**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

**PT 60/61, PT 62**

Connectors for overpanels  
and sidelites

**Art. No. 803.150, 803.452**

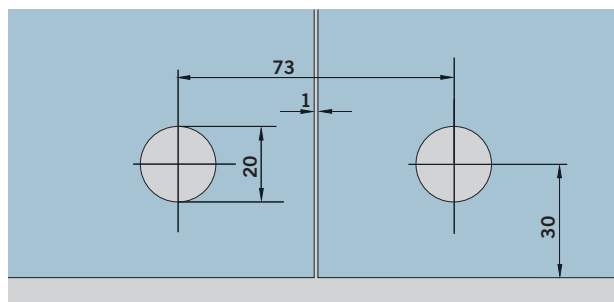
and connector with stop

**Art. No. 803.173**

**Scale 1 : 2**

**Art. No. 803.157, 803.158**

Glass preparation for fin  
fitting see PT 81 (page 22)

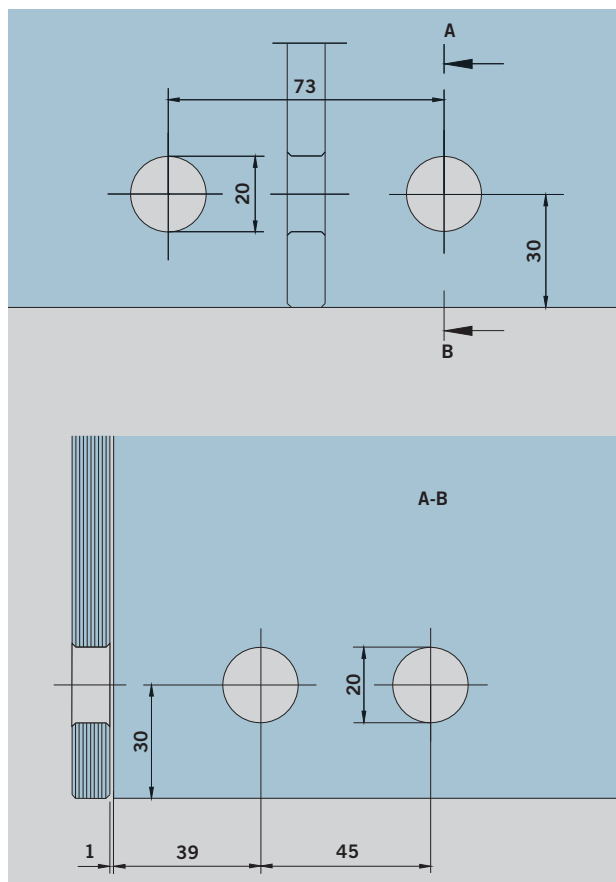
**PT 70**

Overpanel connector

**Art. No. 801.150, 801.158**

**Scale 1 : 2**



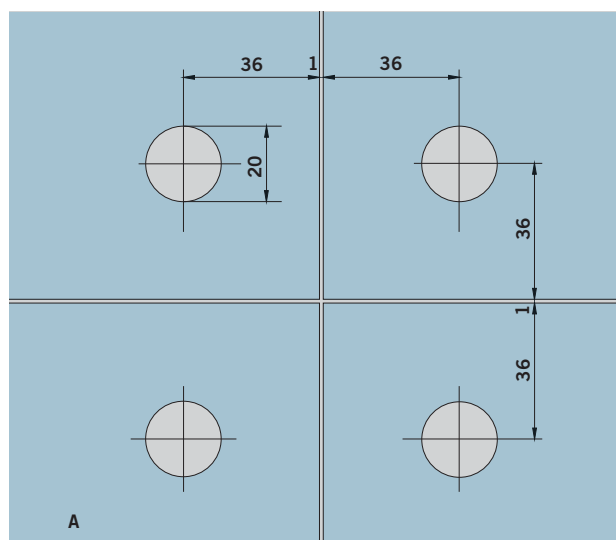


# PT 71

Overpanel connector with  
fin fitting

Art. No. 801.161

Scale 1 : 2



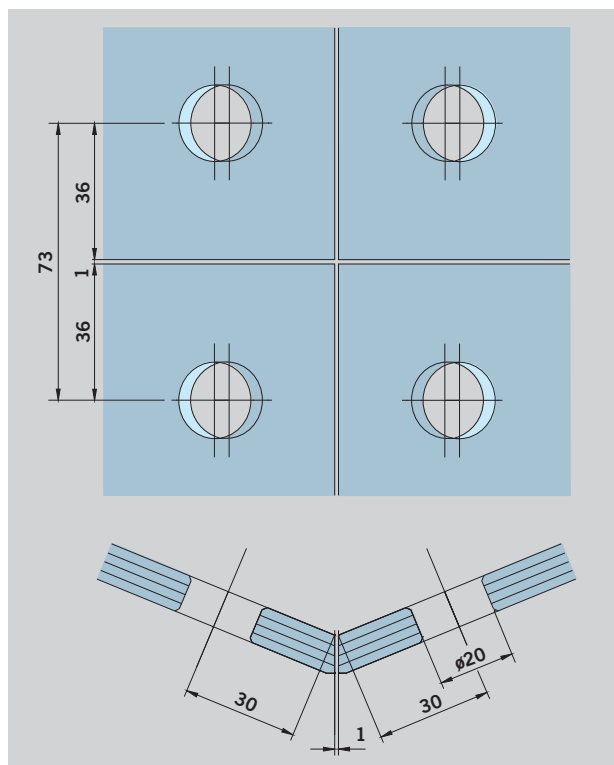
# PT 80

Connector

Art. No. 803.170, 803.472

Scale 1 : 2





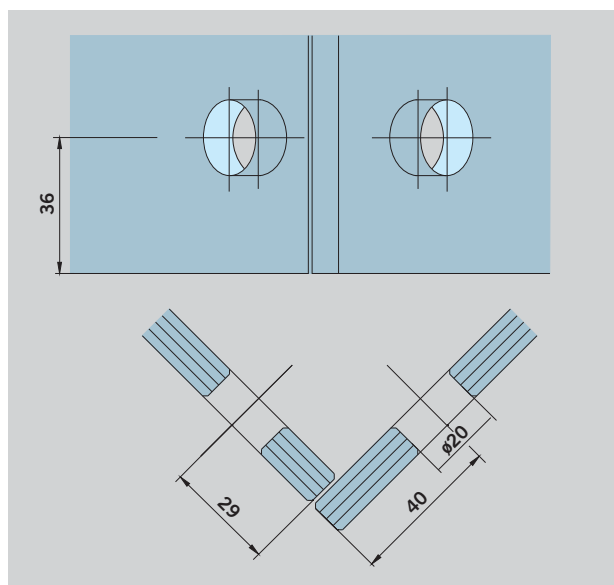
#### PT 80

Angled connector, 135°

**Art. No. 803.172**

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

**Scale 1 : 2**



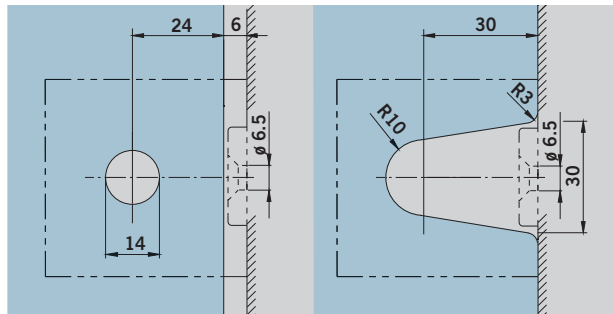
#### PT 80 shortened

Angled connector, 90°  
shortened

**Art. No. 803.470**

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

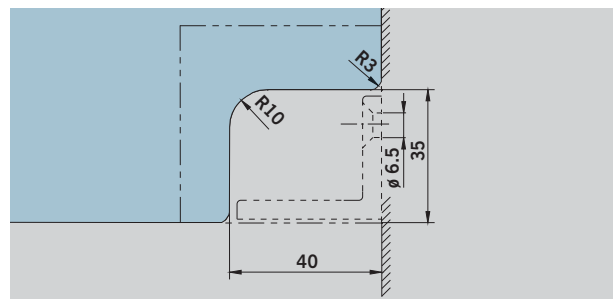
**Scale 1 : 2**

**PT 90**

Screw on fitting

Art. No. 807.021, 807.210

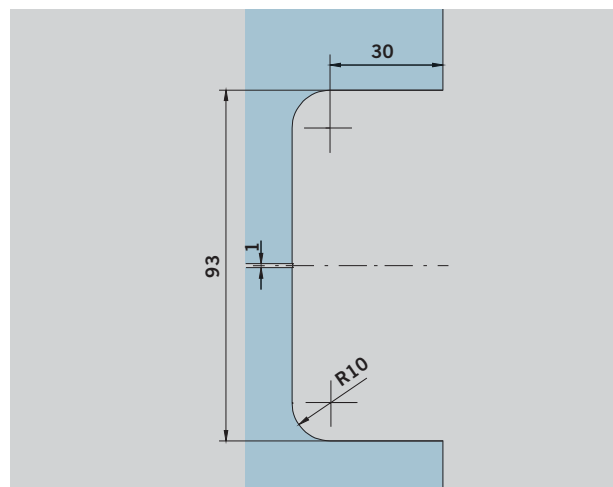
Scale 1 : 2

**PT 91**

Corner fitting

Art. No. 807.023, 807.211

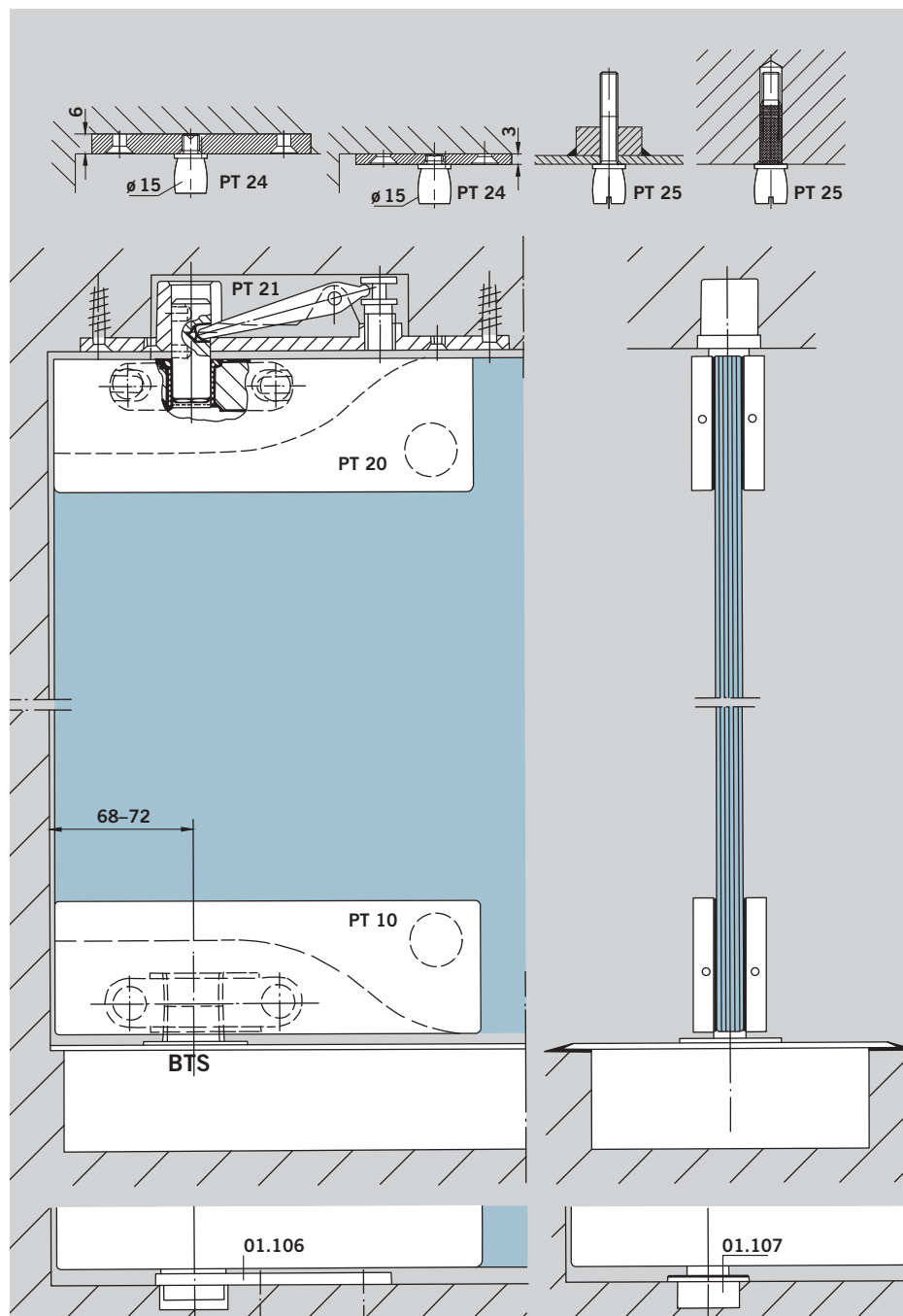
Scale 1 : 2

**Side connector**

with fixing plate

Art. No. 801.153

Scale 1 : 2



### Fixing of pivots and top centers

Fixing of top pivots and  
top centers for PT 20

Fixing of floor springs, pivot  
bearings for PT 10

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

ARCOS  
Universal

Contents

General information, maximum measurements	27
ARCOS Universal Patch fittings	29
ARCOS Universal Connectors	31
ARCOS Universal Glass preparation details	32
ARCOS Universal Construction details	33
Accessories	40
Metric/English conversion guide	51



## ARCOS Universal ... unique design with in-built system versatility

The ARCOS Universal range offers patch fittings and connector hardware for overpanels and side panels, and fin fittings for particularly large systems—with the curved arc motif of the ARCOS design always incorporated into each component. Gentle reflections that change with the planes give both the glass and its fittings the appearance of a harmonious whole.

### **Easy glass preparation, secure fixing**

DORMA Glas understands the special properties of glass as a building material, designing fittings that require only minimal glass preparation—a quick and easy cut-out with additional holes. Careful consideration and positive measures have been taken to create the maximum

clamping surface with optimum clamping efficiency.

### **Suitable for common glass thicknesses**

ARCOS Universal fittings are available for 3/8" (10 mm) and 1/2" (12 mm) glass thicknesses.

### **Reliability built in**

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

The fittings are designed to withstand large and heavy doors up to a maximum weight of 220 lb (100 kg).

Rails are available for heavier doors—330 lb (150 kg) maximum, for wider doors—48" (1219 mm) maximum, and for high traffic doors.

### **Clip-on technique**

The innovative clip-on technique incorporated into the hardware ensures that the cover caps are secured to the basic components, so that the fixing is virtually invisible.

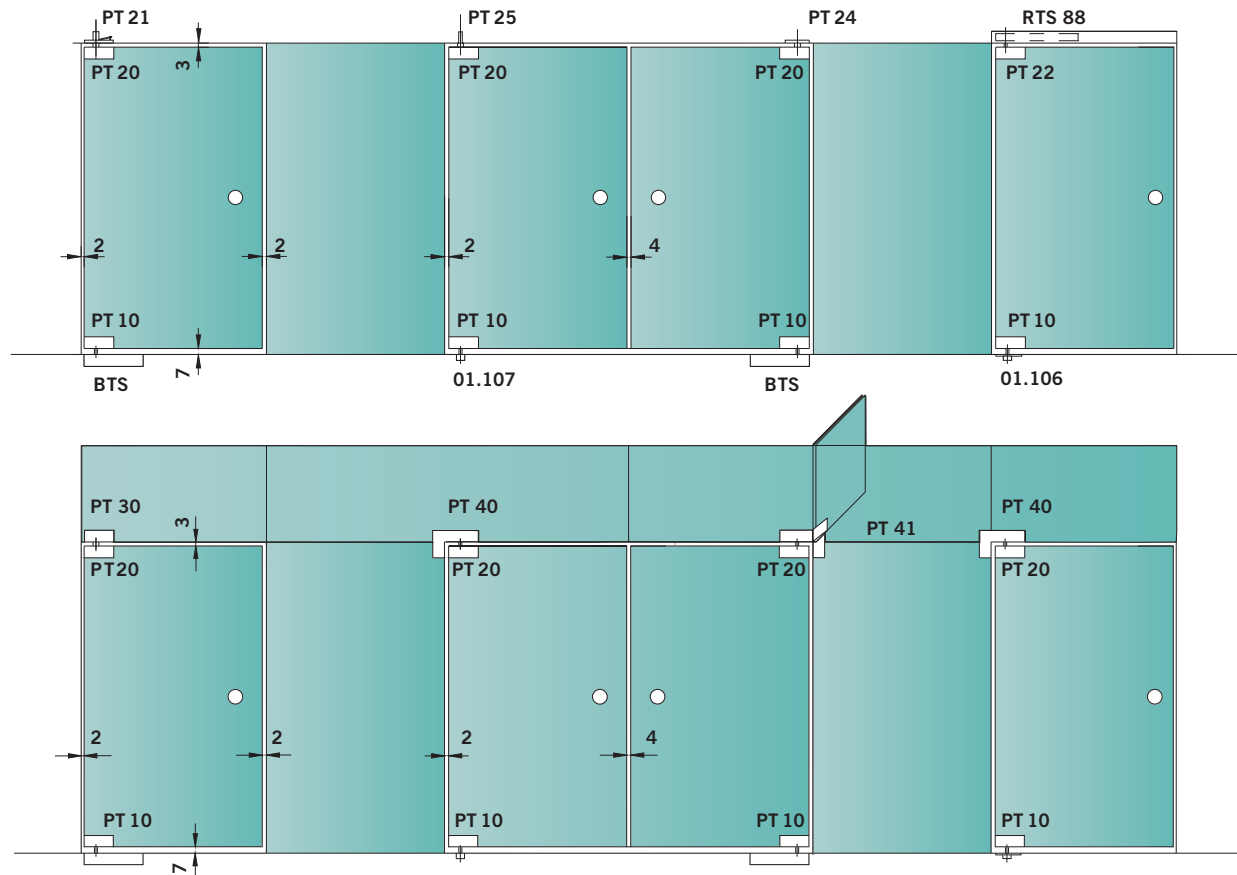
### **Matching range of locks**

The ARCOS 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 options to choose from. Contact Customer Service for more details.



## Type selection

Tempered glass assemblies with fittings. All standard assembly types see page 5.



BTS = Floor spring  
PT = Center hung door fittings  
RTS = Transom closer  
(see Technical Information DORMA RTS Series for details)

**Maximum door weight and width for DORMA Universal fittings**

Max. door weight:  
220 lb (80 kg)

Max. door width:  
43" (1100 mm)

For door weights up to 330 lb (150 kg) and widths up to 48" (1219 mm), DRS door rails should be used.

**Torque for fixing screws**

Screws M 6:  
7.5 lb-ft / 10 Nm (4 mm)\*

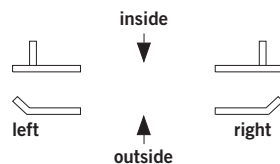
Screws M 6:  
11 lb-ft / 15 Nm (5 mm)\*

Screws M 8:  
15 lb-ft / 20 Nm (5 mm)\*

\*Allan key size

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

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



**Surface finishes**

ARCOS Universal is available in the following surface finishes:

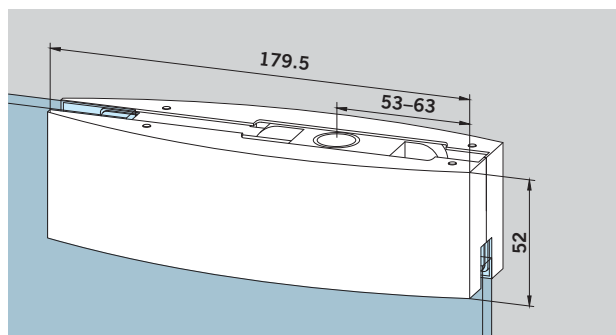
- Aluminum, EV1 (114)
- Traffic-white (300)<sup>1</sup>
- Brass polished (503)<sup>1</sup>
- Satin stainless steel (700)
- Polished stainless steel (701)

Special finishes with anodized colors and other coatings are available upon request.

1. Available upon request

## Patch fittings

Shown with 3/8" (10 mm) and 1/2" (12 mm) glass. Accessories see page 40.

**ARCOS PT 20****top patch**

with plastic socket for top  
pivot 15 mm Ø

- 3/8" (10 mm) glass:

**Art. No. 826.110**

- 1/2" (12 mm) glass:

**Art. No. 833.210**

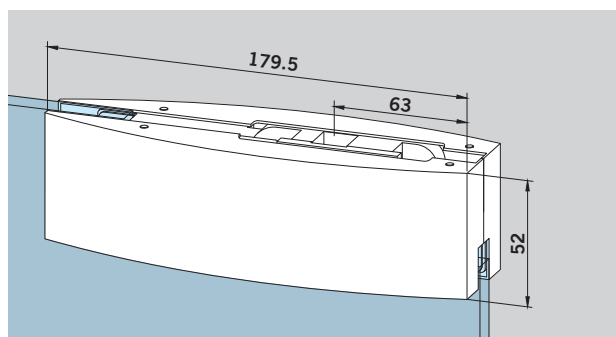
**Pivot location:**

**2-5/8" (67 mm)**

Weight in lb (kg):

Aluminum 1.049 (0.477)

Stainless steel  
1.265 (0.575)

**ARCOS PT 22****top patch**

with insert for DORMA RTS  
transom closer (see also  
Technical Information  
DORMA RTS Series)

- 3/8" (10 mm) glass:

**Art. No. 826.112**

- 1/2" (12 mm) glass:

**Art. No. 833.208**

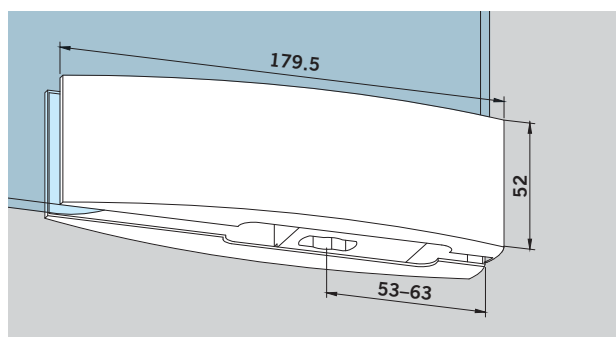
**Pivot location:**

**2-5/8" (67 mm)**

Weight in lb (kg):

Aluminum 1.272 (0.578)

Stainless steel  
1.489 (0.677)

**ARCOS PT 10****bottom patch**

with insert for DORMA floor  
spring spindle, or round pivot  
14 mm Ø

- 3/8" (10 mm) glass:

**Art. No. 826.100**

- 1/2" (12 mm) glass:

**Art. No. 833.200**

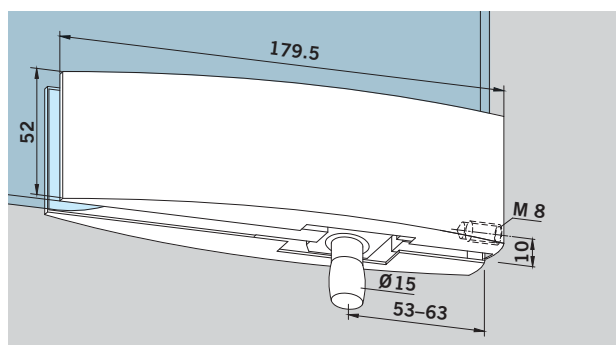
**Pivot location:**

**2-5/8" (67 mm)**

Weight in lb (kg):

Aluminum 1.241 (0.564)

Stainless steel  
1.456 (0.662)

**ARCOS PT 30****overpanel patch**

with pivot 15 mm Ø,  
with M 8 tapped hole at side

- 3/8" (10 mm) glass:

**Art. No. 826.120**

- 1/2" (12 mm) glass:

**Art. No. 833.220**

**Pivot location:**

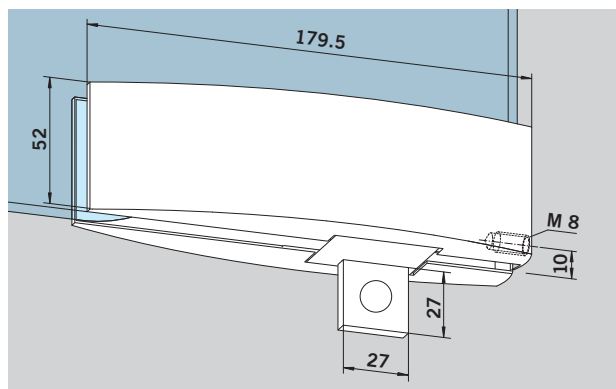
**2-5/8" (67 mm)**

Weight in lb (kg):

Aluminum 1.161 (0.528)

Stainless steel  
1.399 (0.636)

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

**ARCOS PT 30**  
**overpanel patch**

with stop insert

- 3/8" (10 mm) glass:

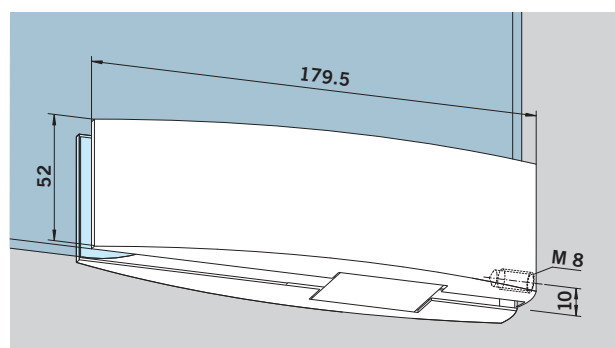
**Art. No. 826.420**

- 1/2" (12 mm) glass:

**Art. No. 833.222**

Weight in lb (kg):

Aluminum 1.161 (0.528)

Stainless steel  
1.276 (0.580)**ARCOS PT 30**  
**overpanel patch**

with blanking insert

- 3/8" (10 mm) glass:

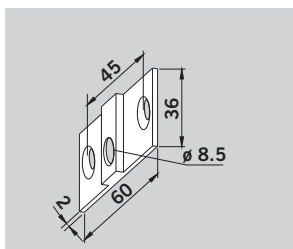
**Art. No. 826.421**

- 1/2" (12 mm) glass:

**Art. No. 833.223**

Weight in lb (kg):

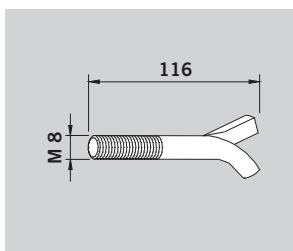
Aluminum 1.141 (0.519)

Stainless steel  
1.256 (0.571)**Fixing plate** for overpanel  
patch PT 30**Art. No. 803.128**

Weight in lb (kg):

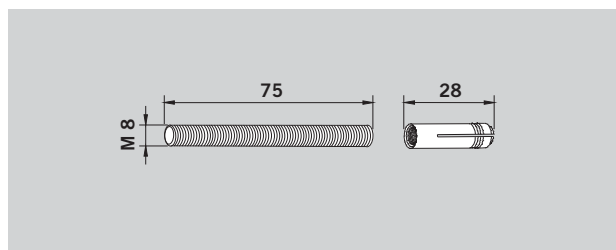
Aluminum 0.035 (0.016)

Brass 0.083 (0.038)

Stainless steel not available,  
satin chrome on brass supplied.**Wall anchor** with thread M 8  
for overpanel patch PT 30**Art. No. 801.133**

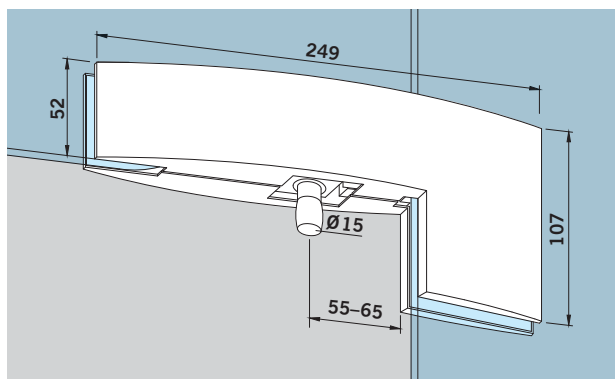
Weight in lb (kg):

0.088 (0.040)

**Threaded rod** M 8 with plug  
for overpanel patch PT 30**Art. No. 801.134**

Weight in lb (kg):

0.070 (0.032)



**ARCOS PT 40 patch for over-  
panel and side panel**  
with pivot 15 mm Ø

- 3/8" (10 mm) glass:

**Art. No. 826.140**

- 1/2" (12 mm) glass:

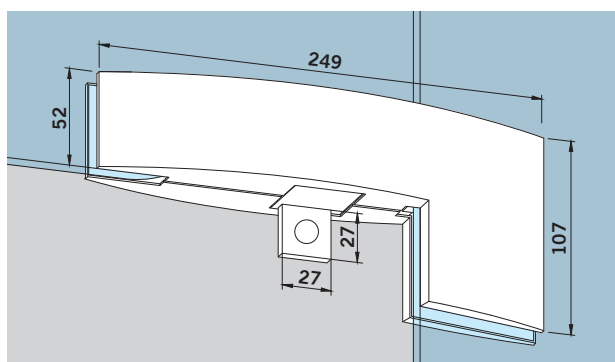
**Art. No. 833.240**

**Pivot location:**  
**2-5/8" (67 mm)**

Weight in lb (kg):

Aluminum 1.661 (0.755)

Stainless steel  
2.061 (0.937)



**ARCOS PT 40 patch for  
overpanel and side panel**  
with stop insert

- 3/8" (10 mm) glass:

**Art. No. 826.440**

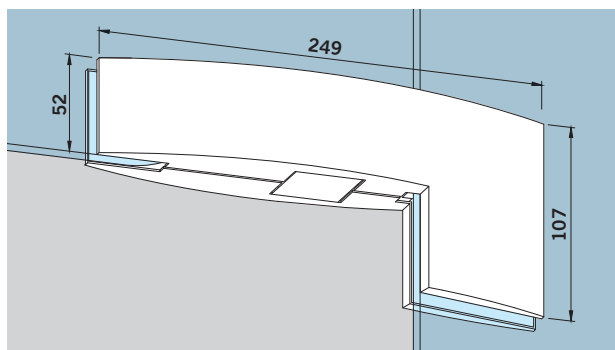
- 1/2" (12 mm) glass:

**Art. No. 833.241**

Weight in lb (kg):

Aluminum 1.661 (0.755)

Stainless steel  
2.061 (0.937)



**ARCOS PT 40 patch for  
overpanel and side panel**  
with blanking insert

- 3/8" (10 mm) glass:

**Art. No. 826.441**

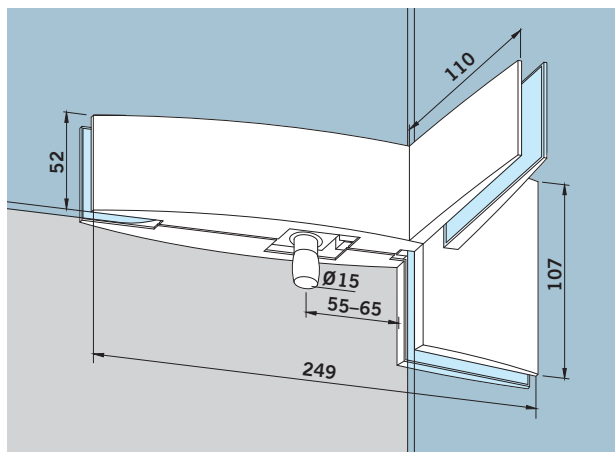
- 1/2" (12 mm) glass:

**Art. No. 833.242**

Weight in lb (kg):

Aluminum 1.641 (0.746)

Stainless steel  
2.041 (0.928)



**ARCOS PT 41  
patch for overpanels  
and side panel with fin  
fitting inside**

with pivot 15 mm Ø

- 3/8" (10 mm) glass:

**Art. No. \*826.162/826.163**

- 1/2" (12 mm) glass:

**Art. No. \*833.245/833.246**

with stop insert (not illustrated)

- 3/8" (10 mm) glass:

**Art. No. \*826.262/826.263**

- 1/2" (12 mm) glass:

**Art. No. \*833.248/833.249**

with blanking insert (not  
illustrated)

- 3/8" (10 mm) glass:

**Art. No. \*826.264/826.265**

- 1/2" (12 mm) glass:

**Art. No. \*833.250/833.251**

**Pivot location:**  
**2-5/8" (67 mm)**

Weight in lb (kg):

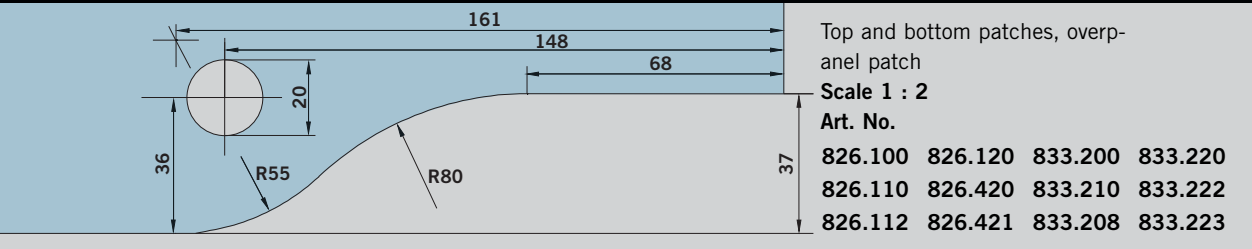
Aluminum 2.094 (0.952)

Stainless steel  
2.633 (1.197)

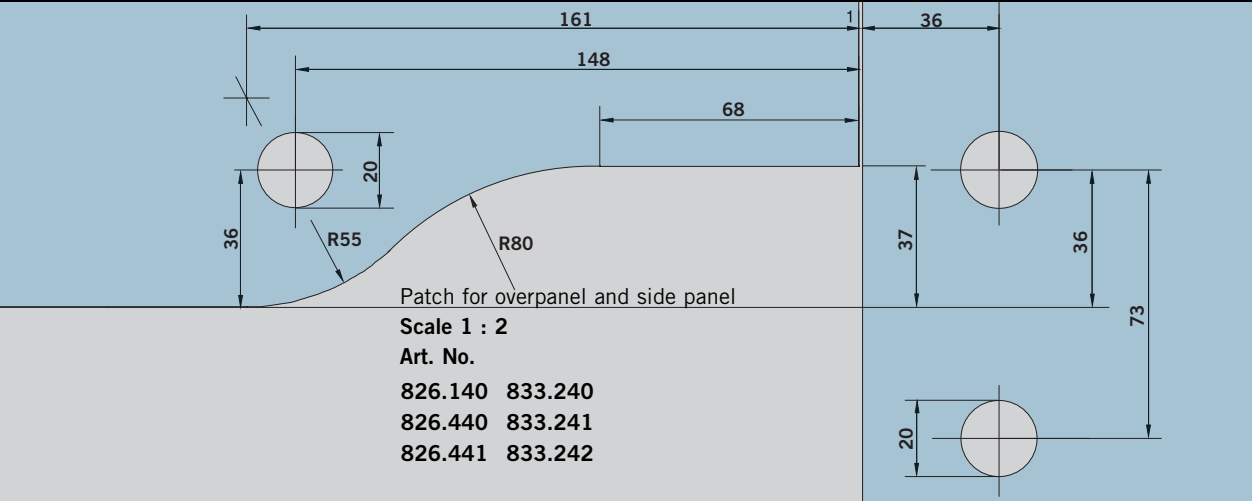
\* Left hand fin (illustration shows  
left hand) / Right hand fin.  
Left or right hand is determined by  
view from outside.

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

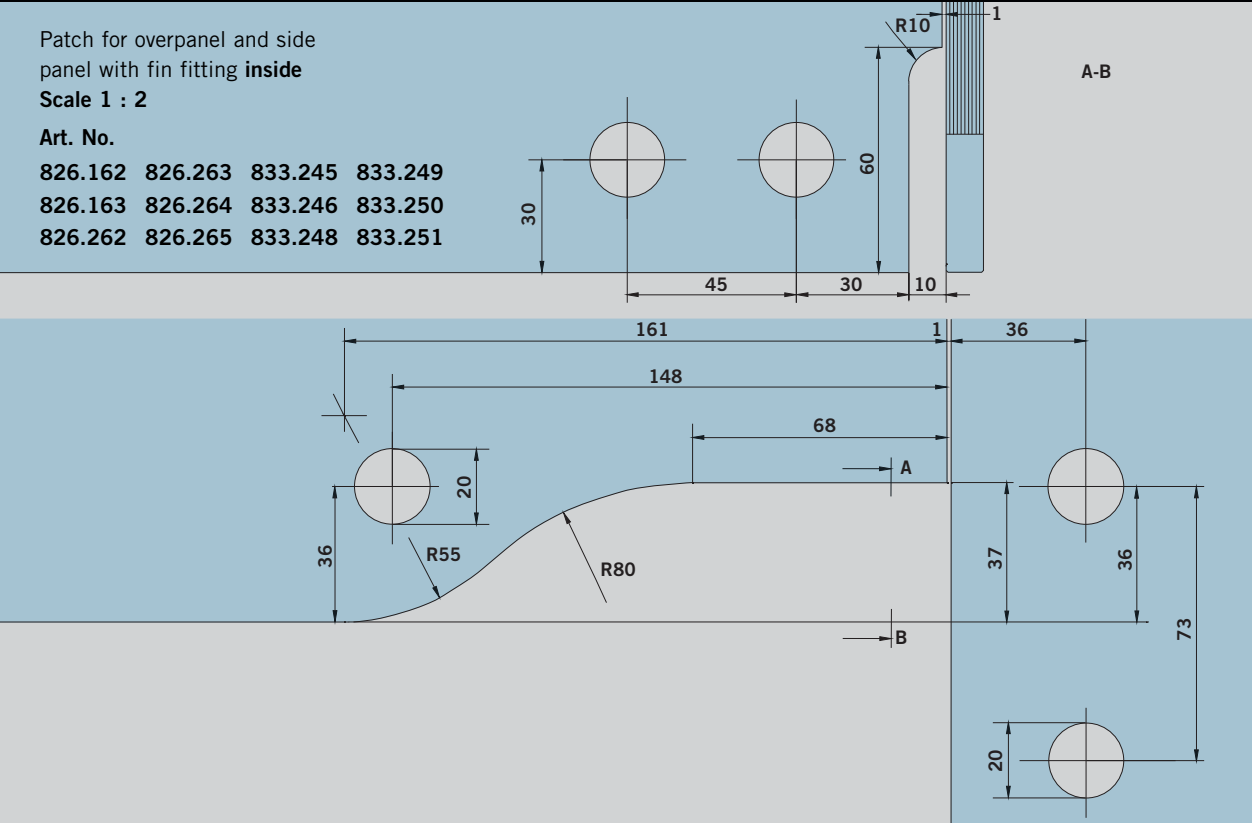
ARCOS PT 10, PT 20, PT 22, PT 30



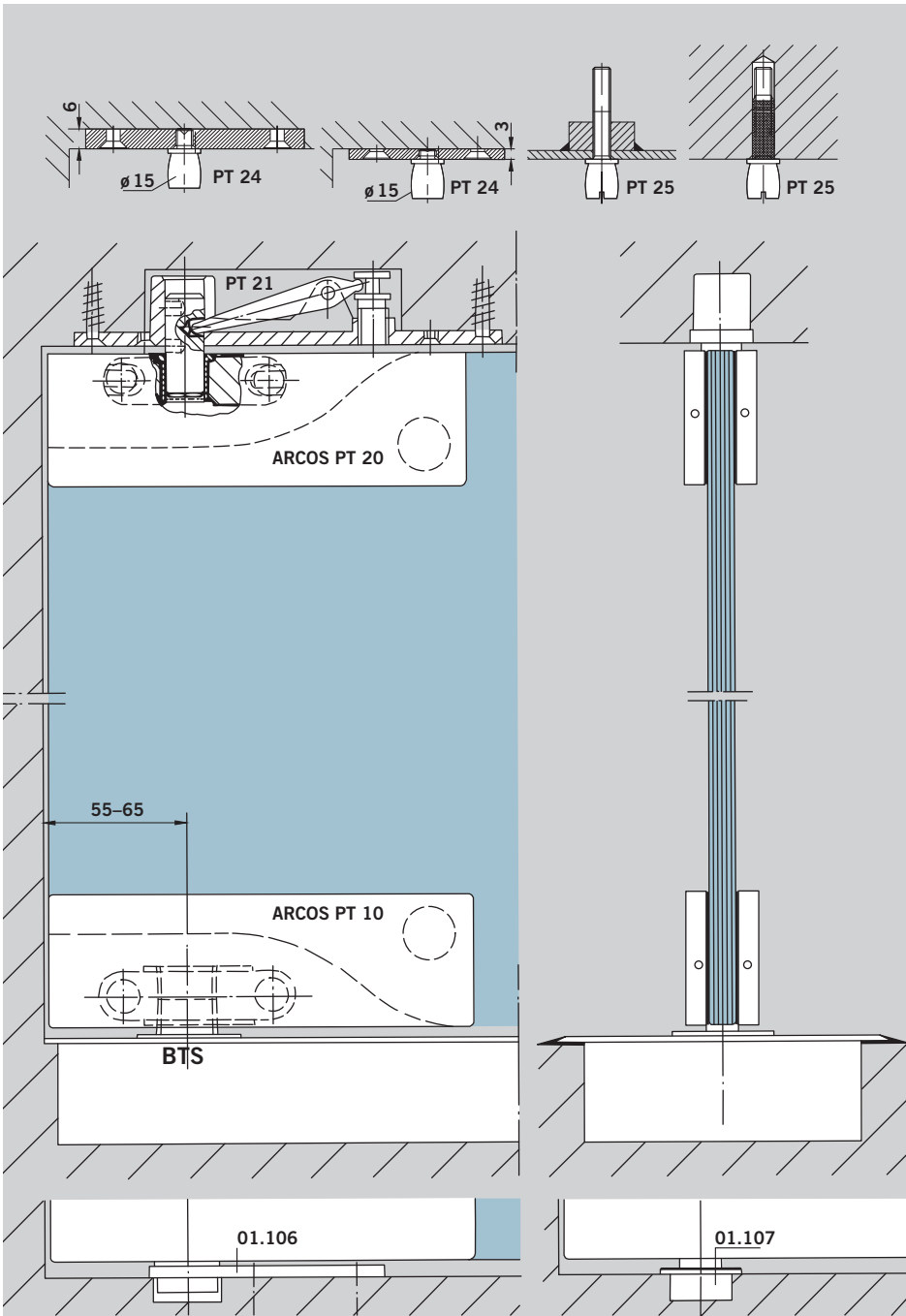
ARCOS PT 40



ARCOS PT 41







Fixing of pivots  
and top centers

Fixing of top pivots and  
top centers for ARCOS PT 20  
Fixing of floor springs, pivot  
bearings for ARCOS PT 10

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

DORMA EA

Contents

General information, maximum measurements	35
DORMA EA Patch fittings	36
DORMA EA Top centers for wood and steel frames	38
DORMA EA Glass preparation details	39
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## DORMA EA ... the expansive range with slimline bodies for offset hung doors

DORMA EA patch fittings are characterized by their slim, neat shape and skillful hinge design. This comprehensive range of fittings allows the transparent elegance of single-action doors to reach their full potential—whether hung in frames or integrated into tempered glass openings.

### Easy glass preparation secure fixing

DORMA Glas understands the special properties of glass as a building material, designing fittings that require only minimal glass preparation—

a quick and easy cut-out with additional holes. Careful consideration and positive measures have been taken to create the maximum clamping surface with optimum clamping efficiency.

### Suitable for common glass thicknesses

DORMA EA patch fittings are available for 3/8" (10 mm) and 1/2" (12 mm) glass thicknesses.

**Reliability built in**  
Quality materials and thorough workmanship mean

that DORMA EA patch fittings have the features necessary to meet the most demanding of specifications.

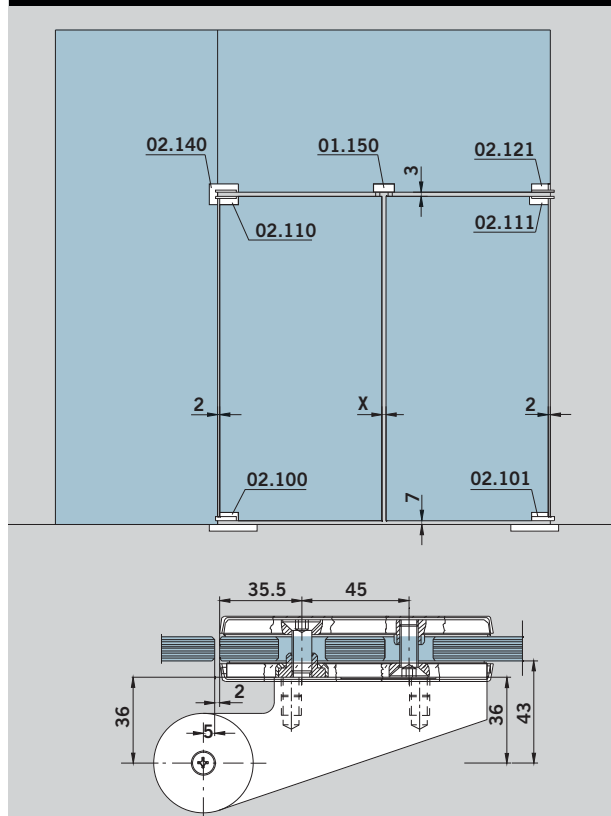
### Matching range of locks

The DORMA EA 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 options to choose from. Contact Customer Service for more details.

**Choice of colors and finishes**  
DORMA EA corner patches are available in the following finishes:

- Aluminum, silver anodized EV1, (101)
- Aluminum, dark bronze anodized DB (108)
- Brass, polished (503)
- Brass, satin chrome plated (500)

### Offset hung doors in tempered glass assemblies



Max. door weight:  
220 lb (100 kg)  
Max. door width:  
43" (1100 mm)

For door weights up to 220 lb (100 kg) and widths up to 47" (1200 mm), DRS door rails should be used.

DORMA EA patch fittings for offset hung doors in tempered glass assemblies have a 1-7/16" (36 mm) offset = 1-11/16" (43 mm) from pivot point to glass surface.

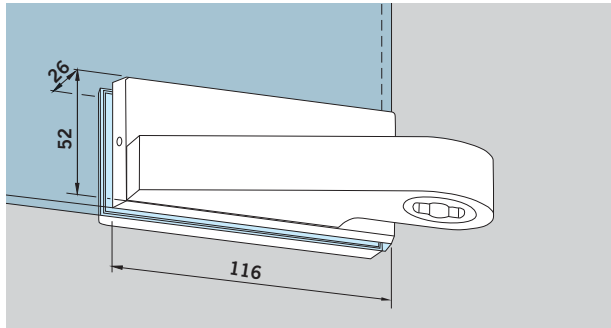
### Torque for fixing screws

Screws M 8:  
15 lb-ft / 20 Nm

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

**Patch fittings for offset hung doors in tempered glass openings**

1-7/16" (36 mm) offset = 1-11/16" (43 mm) from pivot point to glass surface, complete, for 3/8" (10 mm) and 1/2" (12 mm) glass thickness.

**Bottom patch**

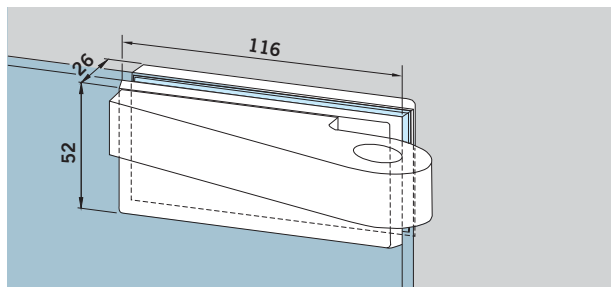
to suit DORMA floor spring spindle, or round pivot  
14 mm Ø

**Art. No. \*802.100/802.101**

Weight in lb (kg):

Aluminum 1.606 (0.730)

Stainless steel  
2.807 (1.276)

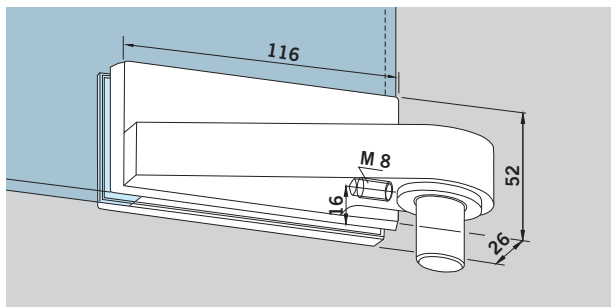
**Top patch**

**Art. No. \*802.110/802.111**

Weight in lb (kg):

Aluminum 1.452 (0.660)

Stainless steel  
2.734 (1.243)

**Overpanel patch**

bushing outside Ø 20 mm,  
pivot Ø 15 mm

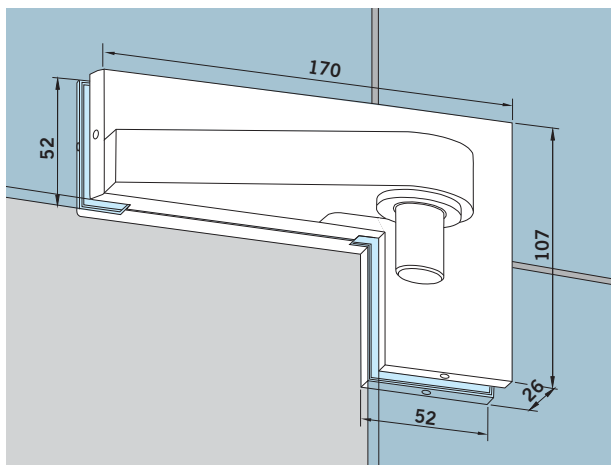
**Art. No. \*802.120/802.121**

Weight in lb (kg):

Aluminum 1.401 (0.637)

Stainless steel  
2.624 (1.193)

See page 43 for wall connector plate **Art. No. 801.127**

**Patch for overpanel and sidelite**

bushing outside  
Ø 20 mm, pivot Ø 15 mm

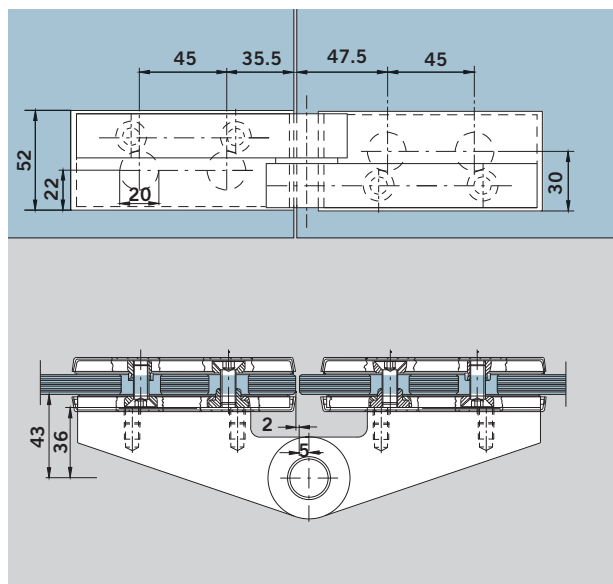
**Art. No. \*802.140/802.141**

Weight in lb (kg):

Aluminum 1.830 (0.832)

Stainless steel  
3.099 (1.409)

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



#### Top patch

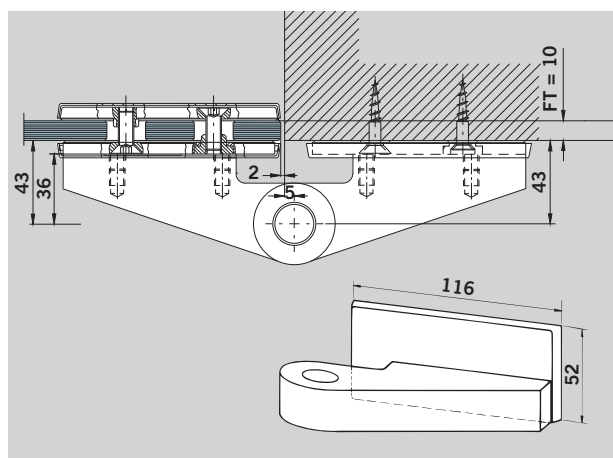
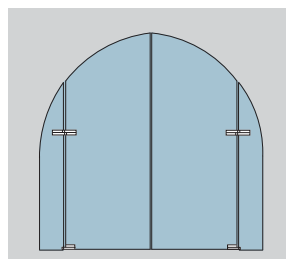
complete with pivot for  
sidelite

**Art. No. \*802.200/802.201**

Weight in lb (kg):

Aluminum 3.113 (1.415)

Stainless steel  
5.678 (2.581)



#### Top patch

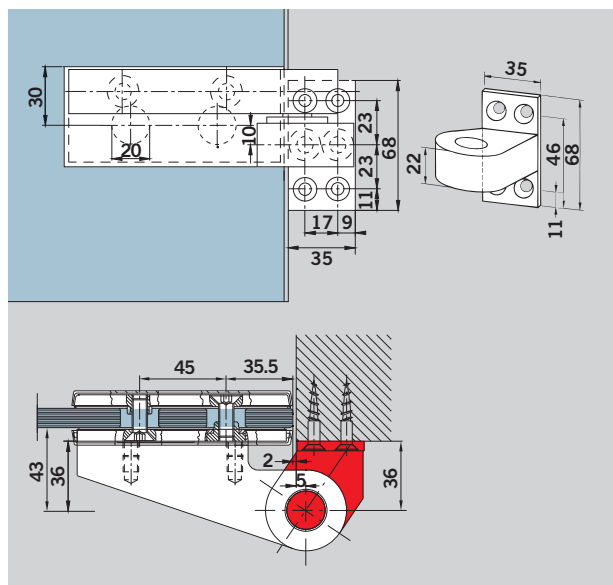
complete with pivot for wall  
fixing

**Art. No. \*802.202/802.203**

Weight in lb (kg):

Aluminum 2.809 (1.277)

Stainless steel  
5.561 (2.528)



#### Top patch

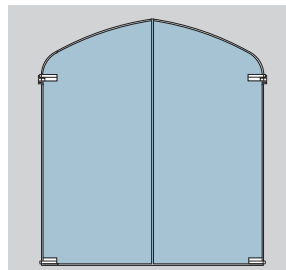
complete with pivot for frame  
fixing

**Art. No. \*802.204/802.205**

Weight in lb (kg):

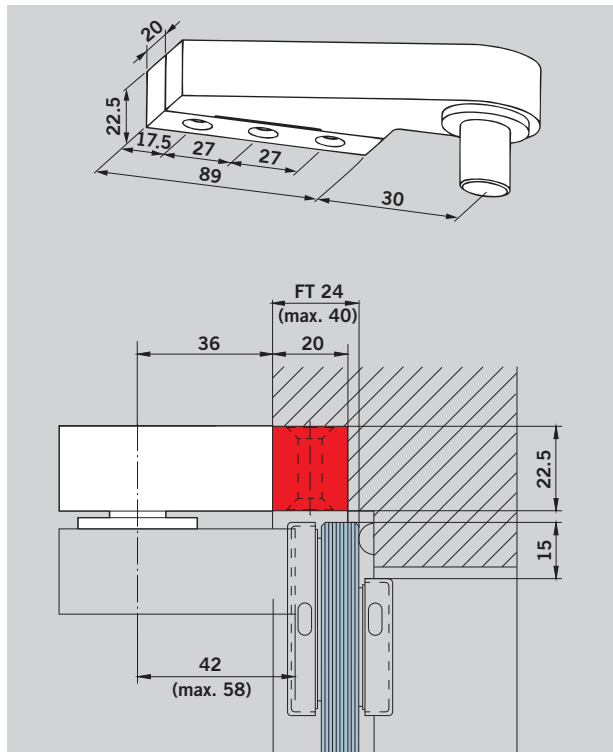
Aluminum 1.969 (0.895)

Stainless steel  
3.850 (1.750)



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

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

**Top centers for wood and steel frames**


**Frame top center**  
 with fixing block

**Art. No. 802.150**

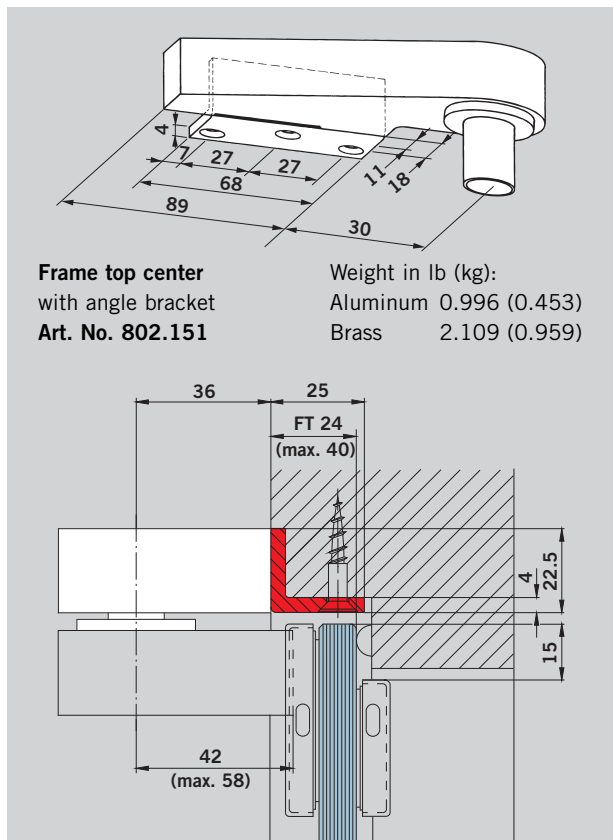
Weight in lb (kg):

Aluminum 1.036 (0.471)

Stainless steel  
 2.149 (0.977)

(If corner fittings/door rails  
 are combined with frame top  
 centers described below,  
 please indicate **rebate depth**  
 with order.)

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

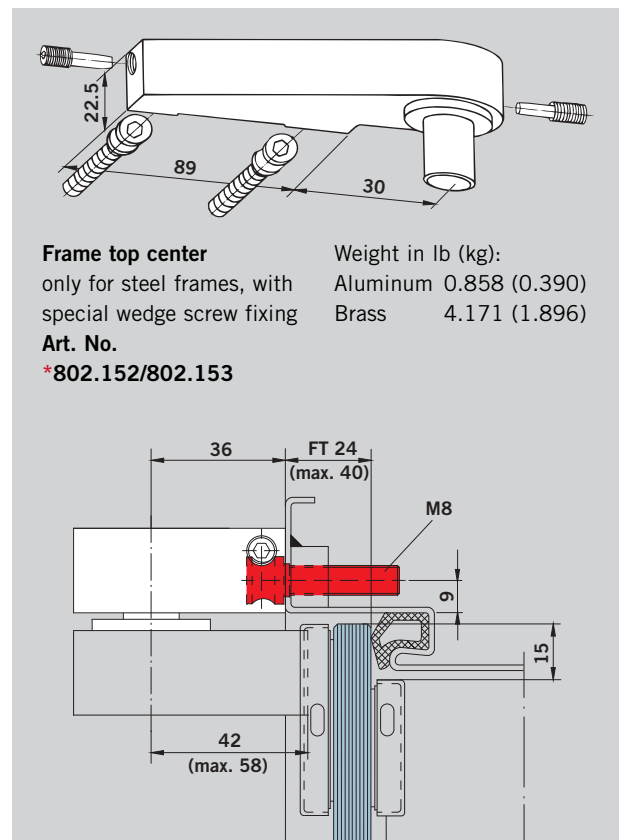


**Frame top center**  
 with angle bracket  
**Art. No. 802.151**

Weight in lb (kg):

Aluminum 0.996 (0.453)

Brass 2.109 (0.959)



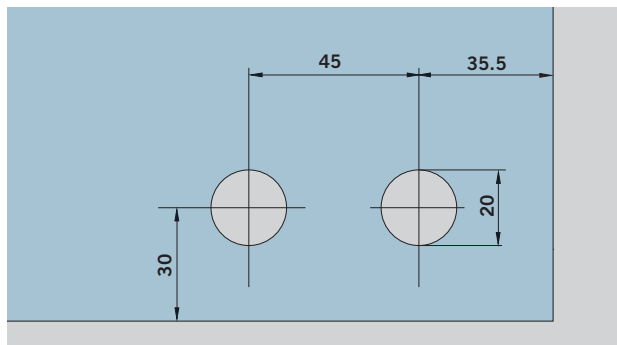
**Frame top center**  
 only for steel frames, with  
 special wedge screw fixing  
**Art. No.**

Weight in lb (kg):

Aluminum 0.858 (0.390)

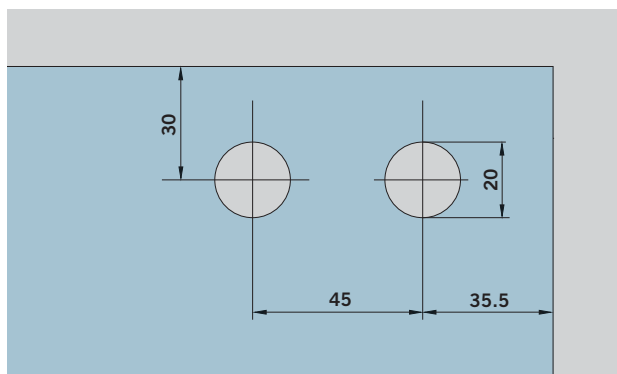
Brass 4.171 (1.896)

**\*802.152/802.153**

**Bottom patches**

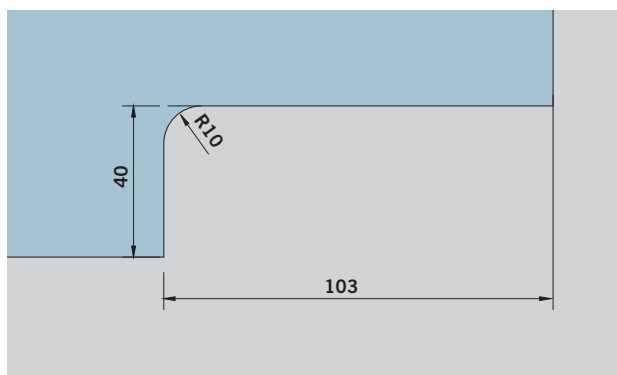
Art. No. left hand: right hand:  
802.100 802.101

Scale 1 : 2

**Top patches**

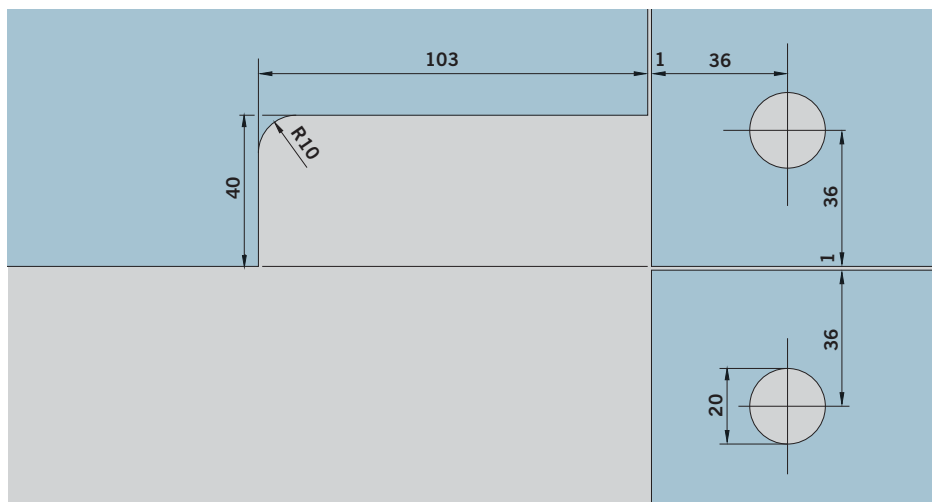
Art. No. left hand: right hand:  
802.110 802.111

Scale 1 : 2

**Overpanel patches**

Art. No. left hand: right hand:  
802.120 802.121

Scale 1 : 2

**Patches for overpanel and sidelite**

Art. No. left hand: right hand:  
802.140 802.141

Scale 1 : 2

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

Accessories



**Contents**

Floor bearings, Floor sockets	41
Pivots	42
Fixing plates, threaded rod, patch lock	43
Handle bars	44
Clamping fittings	46
Usage and assembly of fins	48
Mechanical channel	49
Clip on cover profile, end caps, filler block	50
Metric/English conversion guide	51



## Accessories for patch fittings . . . Perfection in detail

DORMA Glas offers a wide range of original accessories for patch fittings.

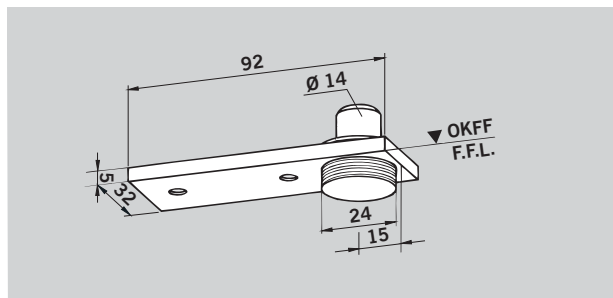
Designed to complement the DORMA product line, these accessories optimize the technical excellence and cost

effectiveness of tempered glass systems of all types.

Aside from functional components, such as special floor pivots, DORMA also offers a choice of security-relevant options. Installing these opti-

ons further enhances the exceptional functional efficiency, reliability, and long service life expected of DORMA Glas systems.

### Floor bearings, Floor socket



**Floor pivot bearing** with round pivot 14 mm Ø, and cover plate; height adjustable by 3/16" (5 mm)  
max. door weight  
220 lb (100 kg)

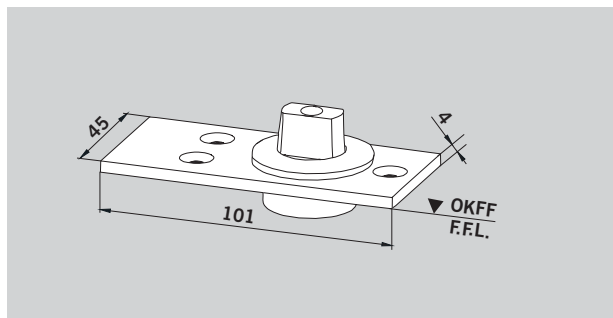
**Art. No. 801.106**

Weight in lb (kg):

Aluminum 0.341 (0.155)

Brass 0.374 (0.170)

Stainless steel  
0.372 (0.169)



**Floor bearing** with DORMA profile spindle (longer spindle on request),  
max. door weight  
440 lb (200 kg)

**Art. No. 804.602**

Weight in lb (kg):

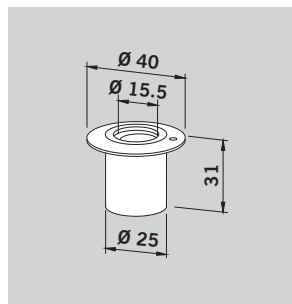
0.559 (0.254)

Stainless Steel  
max. door weight:  
440 lb (200 kg)

**Art. No. 804.603**

Weight in lb (kg):

0.563 (0.256)



**Floor socket**, eccentric, zinc coated brass, with adjustable plastic socket insert

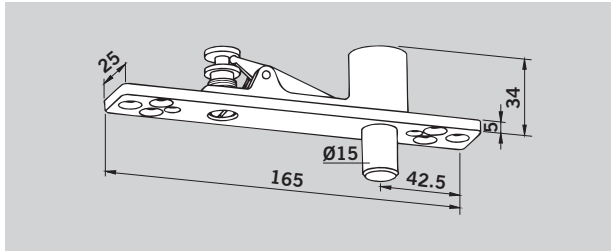
**Art. No. 805.194**

Weight in lb (kg):

0.044 (0.020)

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

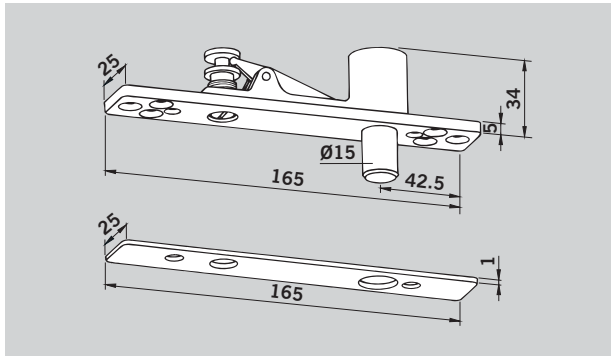
## Pivots

**PT 21 frame portion**

top center with removable pin  
15 mm Ø

**Art. No. 801.117**

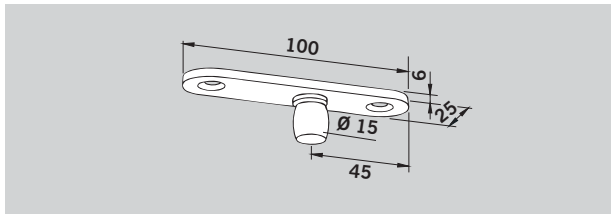
Weight in lb (kg):  
0.737 (0.335)

**PT 21 frame portion**

top center with removable pin  
15 mm Ø, with cover plate

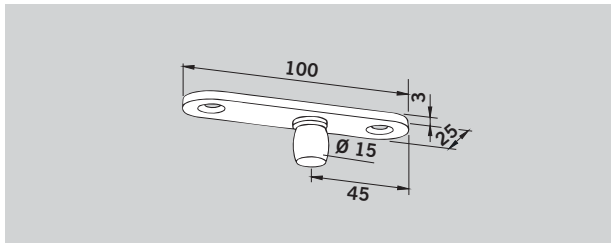
**Art. No. 801.118**

Weight in lb (kg):  
0.759 (0.345)

**PT 24 pivot 15 mm Ø,**  
with fixing plate, material  
thickness 6 mm **countersink**  
**base plate in ceiling**

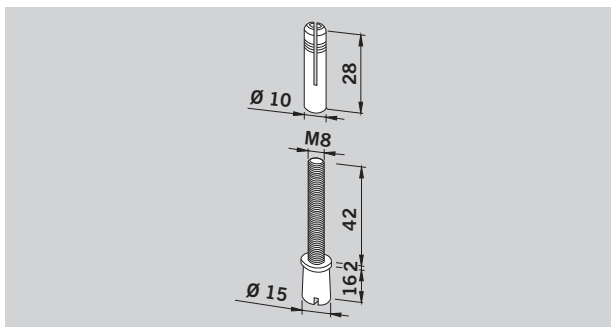
**Art. No. 801.116**

Weight in lb (kg):  
Aluminum 0.128 (0.058)

**PT 24 pivot 15 mm Ø, with**  
fixing plate, material thickness  
3 mm, to screw **on the ceiling**

**Art. No. 801.123**

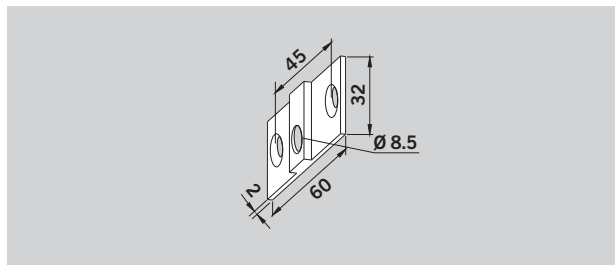
Weight in lb (kg):  
Aluminum 0.092 (0.042)  
Brass 0.171 (0.078)  
Stainless steel  
0.163 (0.074)

**PT 25 pivot 15 mm Ø**  
with plug

**Art. No. 801.115**

Weight in lb (kg):  
0.097 (0.044)

## Fixing plate, Threaded rod, Cylinders

**Fixing plate**

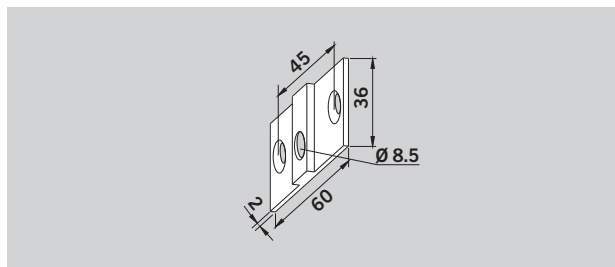
for overpanel patch PT 30

**Art. No. 803.128**

Weight in lb (kg):

Aluminum 0.035 (0.016)

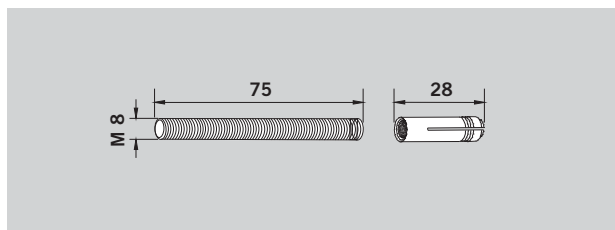
Brass 0.083 (0.038)

Stainless steel not available,  
satin chrome on brass supplied.for overpanel patches from  
EA program**Art. No. 801.127**

Weight in lb (kg):

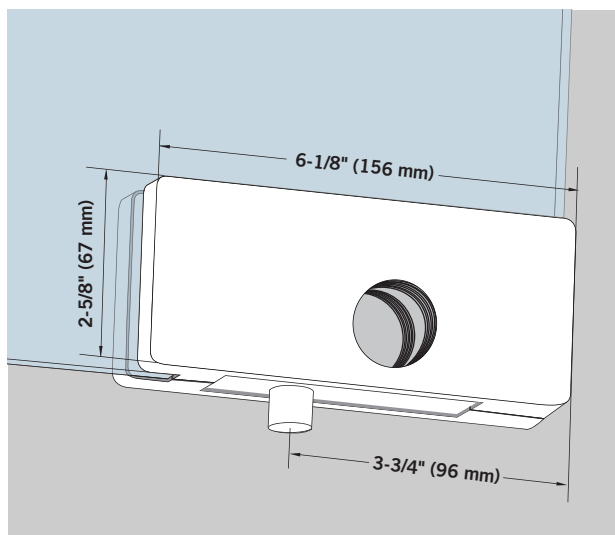
Aluminum 0.042 (0.019)

Brass 0.099 (0.045)

Stainless steel not available,  
satin chrome on brass supplied.**Threaded rod**M 8 with plug for overpanel  
patch**Art. No. 801.134**

Weight in lb (kg):

0.070 (0.032)

**Patch Lock – AR20**

- 3/8" (10 mm) glass:

**Art. No. 801.124**

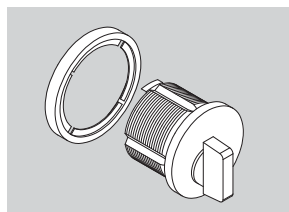
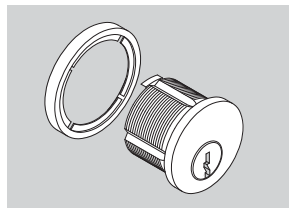
- 1/2" (12 mm) glass:

**Art. No. 801.122**

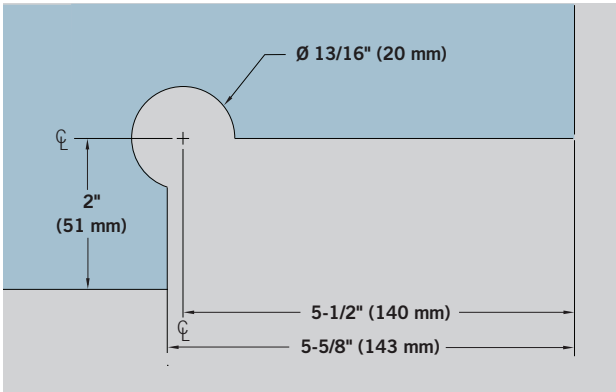
- 5/8" (15 mm) glass:

**Art. No. 801.126**

- 3/4" (19 mm) glass:

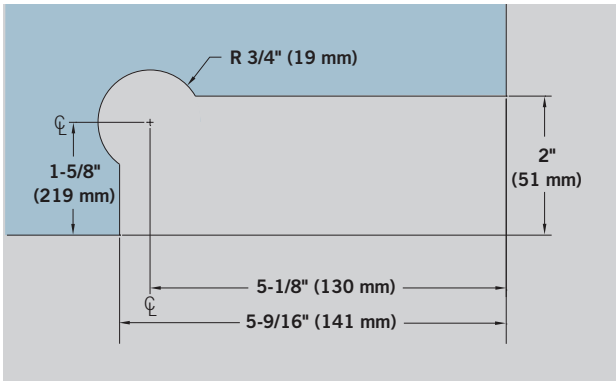
**Art. No. 801.125****Thumbturn with  
blocking ring****Art. No. 225.996****Key Cylinder with  
blocking ring****Art. No. 225.997****NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

Glass Preparation Patch Lock



- 3/8" (10 mm) glass  
Art. No. 801.124

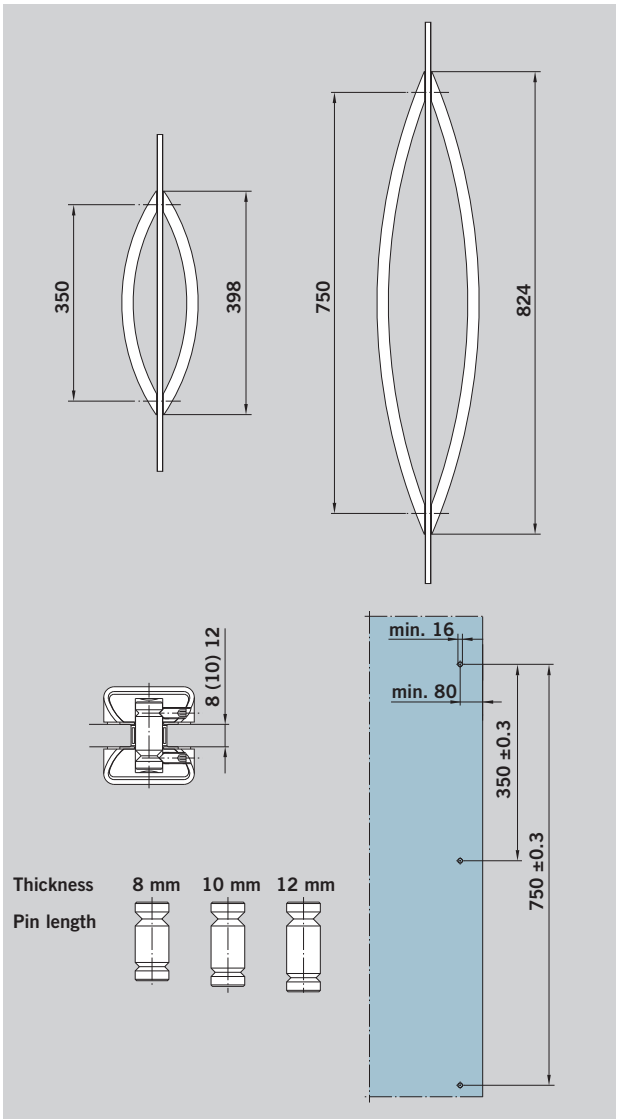
- 1/2" (12 mm) glass:  
Art. No. 801.122



- 5/8" (15 mm) glass:  
Art. No. 801.126

- 3/4" (19 mm) glass:  
Art. No. 801.125

Handle bars



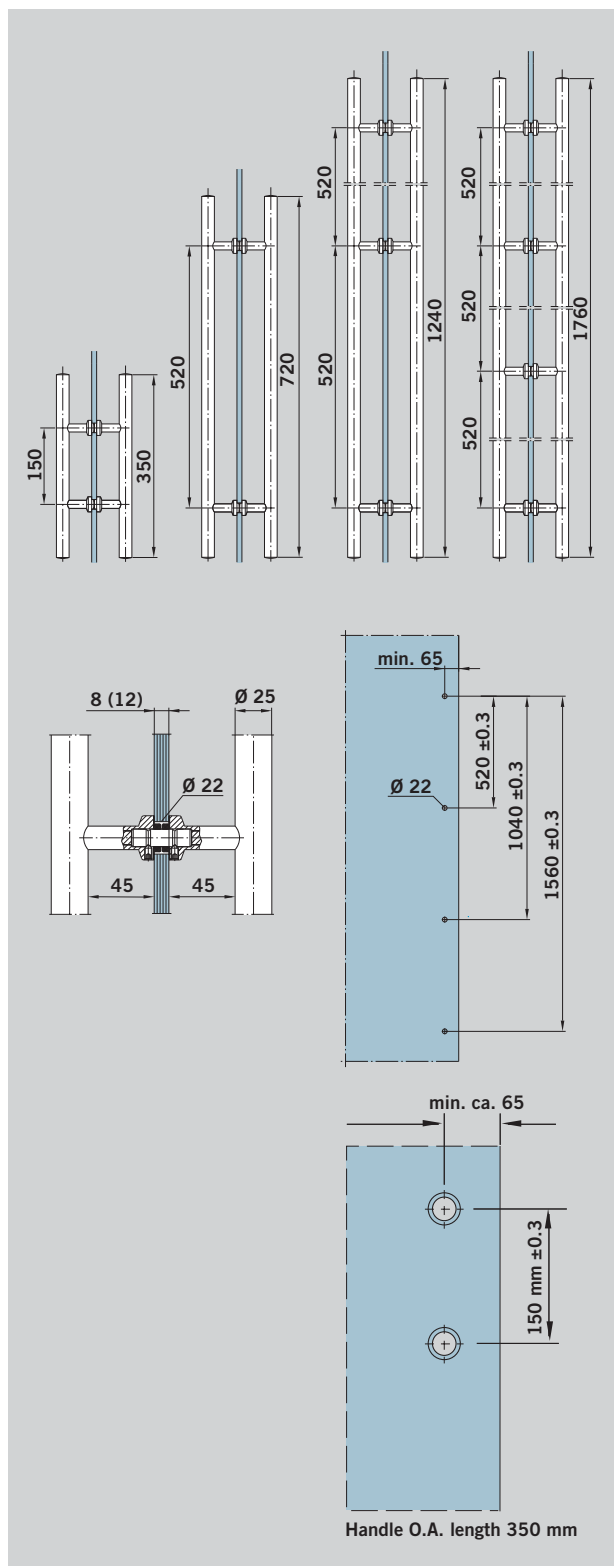
**ARCOS handle bar**  
13-3/4" (350 mm) C to C  
2-hole fixing for 3/8" and  
1/2" glass thickness  
Art. No. 826.500

Weight in lb (kg):  
Aluminum 3.652 (1.660)  
Stainless steel  
3.388 (1.540)

**ARCOS handle bar**  
29-1/2" (750 mm) C to C  
2-hole fixing for 3/8" and  
1/2" glass thickness  
Art. No. 826.510

Weight in lb (kg):  
Aluminum 7.172 (3.260)  
Stainless steel  
6.318 (2.872)

## Handle bars



**Handles, back to back**  
length 13-3/4" (350 mm) O.A.  
2-hole fixing for 3/8" and  
1/2" glass thickness

**Art. No. 821.267**

Weight in lb (kg):  
Stainless Steel 2.64 (1.200)

**Handles, back to back**  
length 28-3/8" (720 mm) O.A.  
2-hole fixing for 3/8" and  
1/2" glass thickness

**Art. No. 821.270**

Weight in lb (kg):  
Stainless Steel 4.40 (2.000)

**Handles, back to back**  
length  
48-13/16" (1240 mm) O.A.  
3-hole fixing for 3/8" and  
1/2" glass thickness

**Art. No. 821.273**

Weight in lb (kg):  
Stainless Steel 7.48 (3.400)

**Handles, back to back**  
length  
69-1/4" (1760 mm) O.A.  
4-hole fixing for 3/8" and  
1/2" glass thickness

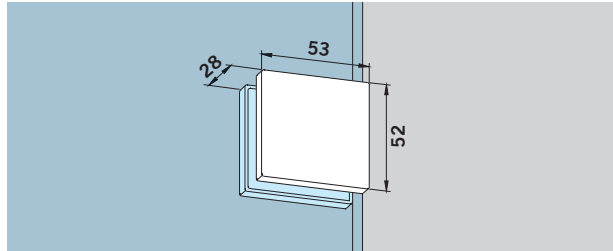
**Art. No. 821.276**

Weight in lb (kg):  
Stainless Steel 11.00 (5.000)

**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.

**Clamping fittings****Important information:**

For free hanging mounting of glass, please use safety clamping fittings. Torque for fixing screws 11 lb-ft / 15 Nm (M 6=Allan key size 5). 44 lbs (20 kg) load for each clamping fitting.

**PT 90 screw on fitting**

- 3/8" (10 mm) glass:

**Art. No. 807.021**

- 1/2" (12 mm) glass:

**Art. No. 807.021**

- 5/8" (15 mm) glass:

**Art. No. 807.210**

- 3/4" (19 mm) glass:

**Art. No. 807.210**

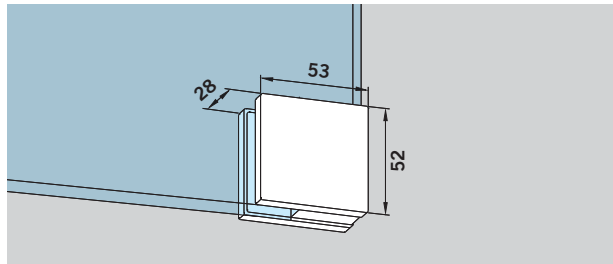
**Specify glass thickness**

Weight in lb (kg):

Aluminum 0.264 (0.120)

Brass 0.352 (0.160)

Stainless steel  
0.341 (0.155)

**PT 91 corner fitting**

- 3/8" (10 mm) glass:

**Art. No. 807.023**

- 1/2" (12 mm) glass:

**Art. No. 807.023**

- 5/8" (15 mm) glass:

**Art. No. 807.211**

**Specify glass thickness**

- 3/4" (19 mm) glass:

**Art. No. 807.211**

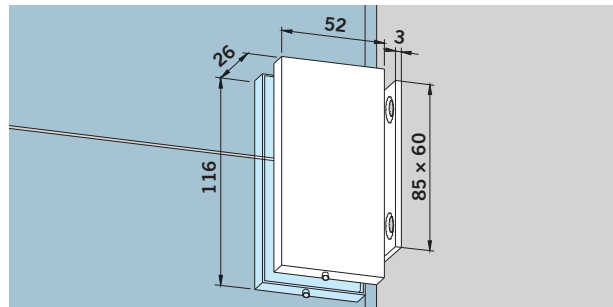
**Specify glass thickness**

Weight in lb (kg):

Aluminum 0.264 (0.120)

Brass 0.352 (0.160)

Stainless steel  
0.341 (0.155)

**Side connector**

with wall mounting plate

- 3/8" (10 mm) glass:

**Art. No. 801.153**

- 1/2" (12 mm) glass:

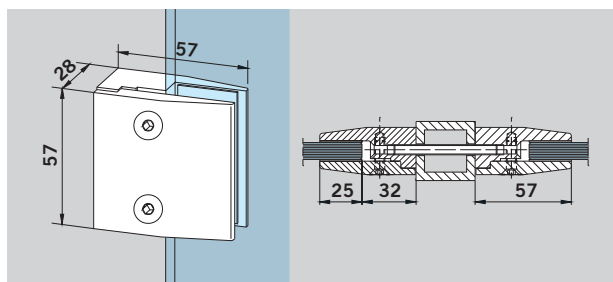
**Art. No. 801.153**

Weight in lb (kg):

Aluminum 0.689 (0.313)

Brass 0.856 (0.389)

Stainless steel  
0.827 (0.376)

**Clamping fitting, right angle**

with screw thread M 6

- for 5/16" (8 mm) glass thickness:

**Art. No. 807.008**

- for 3/8" (10 mm) glass thickness:

**Art. No. 807.009**

- for 1/2" (12 mm) glass thickness:

**Art. No. 807.010**

Weight in lb (kg):

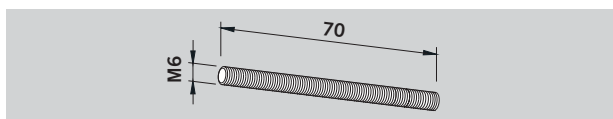
Aluminum 0.407 (0.185)

Weight in lb (kg):

Aluminum 0.396 (0.181)

Weight in lb (kg):

Aluminum 0.396 (0.180)

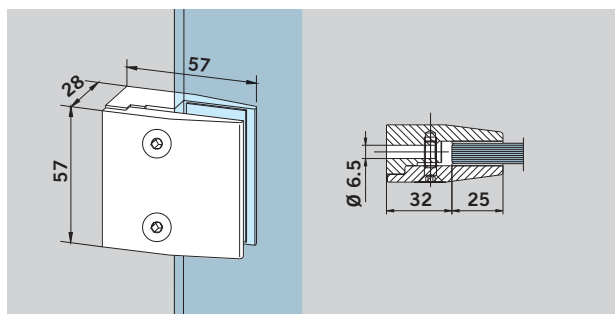
**Threaded bolt**

M 6 x 70 mm, zinc plated

**Art. No. 807.020**

Weight in lb (kg):

Aluminum 0.026 (0.012)



**Clamping fitting**, aluminum, with passage hole for M 6 thread

- for 1/2" (12 mm) glass thickness:

- for 1/2" (12 mm) glass thickness:

**Art. No. 807.039**

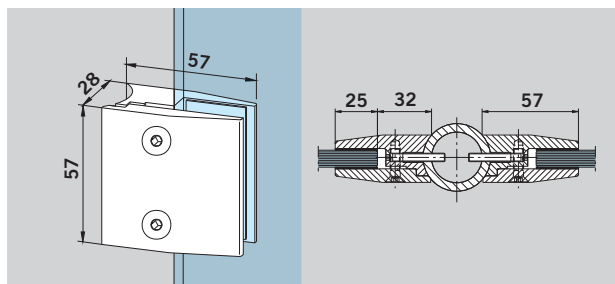
- for 5/16" (8 mm) glass thickness:

Weight in lb (kg):

Aluminum 0.396 (0.180)

- for 3/8" (10 mm) glass thickness:

**Art. No. 807.038**



**Clamping fitting for round tube**,  $\varnothing$  1"-3-15/16" (25-100 mm), aluminum, with passage hole for M 6 thread (please indicate tube diameter)

- for 5/16" (8 mm) glass thickness:

- for 3/8" (10 mm) glass thickness:

**Art. No. 807.035**

- for 1/2" (12 mm) glass thickness:

**Art. No. 807.036**

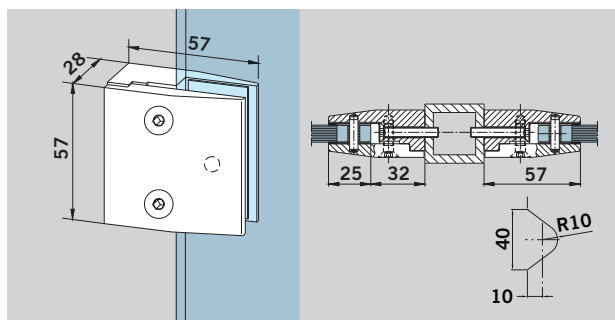
Weight in lb (kg):

Aluminum 0.374 (0.170)

**Art. No. 807.034**

### Safety clamping fittings

A safety pin in the clamping fitting prevents the glass elements from slipping.



**Safety clamping fitting**, aluminum, on glass cut out with passage hole for M 6 thread

- for 5/16" (8 mm) glass thickness:

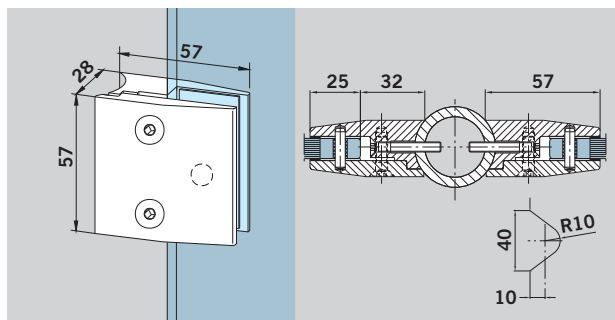
Weight in lb (kg):

Aluminum 0.429 (0.195)

**Art. No. 807.079**

- for 3/8" (10 mm) glass thickness:

**Art. No. 807.080**



**Safety clamping fitting**, aluminum, for round tube  $\varnothing$  1"-3-15/16" (25-100 mm), with passage hole for M 6 thread (please indicate tube diameter)

- for 5/16" (8 mm) glass thickness:

Weight in lb (kg):

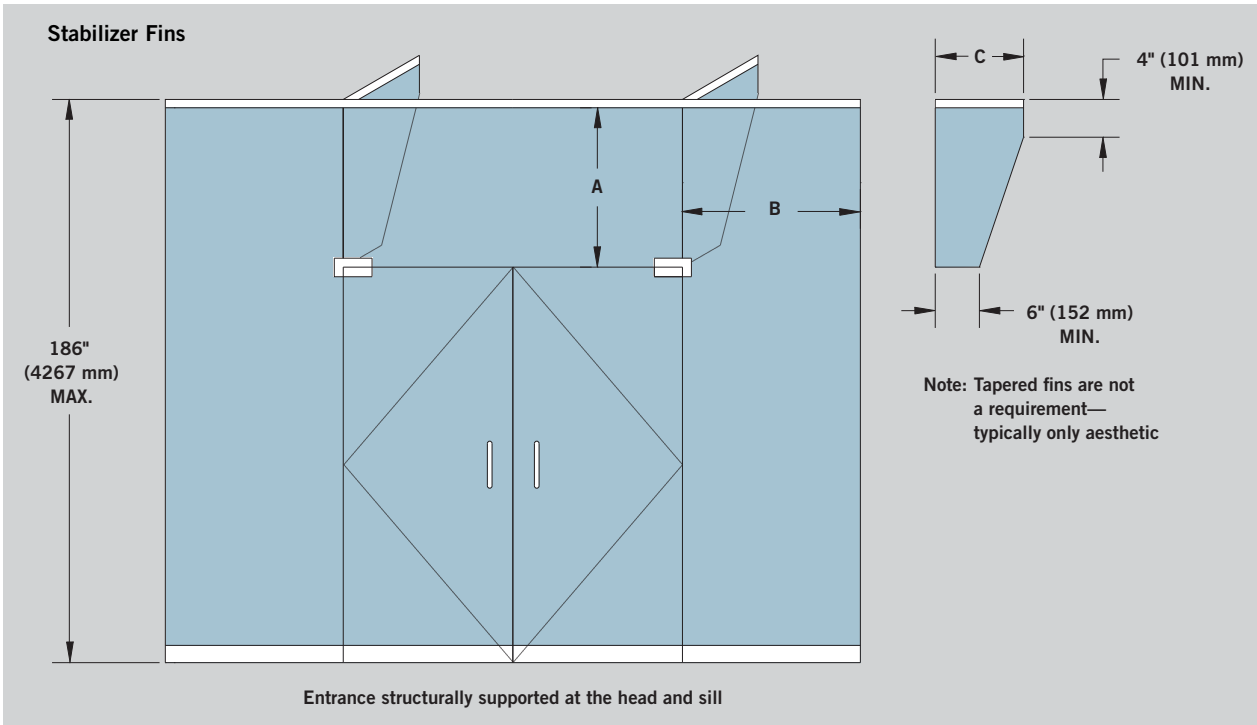
Aluminum 0.411 (0.187)

**Art. No. 807.076**

- for 3/8" (10 mm) glass thickness:

**Art. No. 807.077**

Usage and assembly of fins



Risk of excessive deflection increases as the distance from the door's upper pivot to structure increases. To reduce deflection, glass fins mounted perpendicular to the glass wall should be employed.

Refer to the graph below for fin usage recommendations.

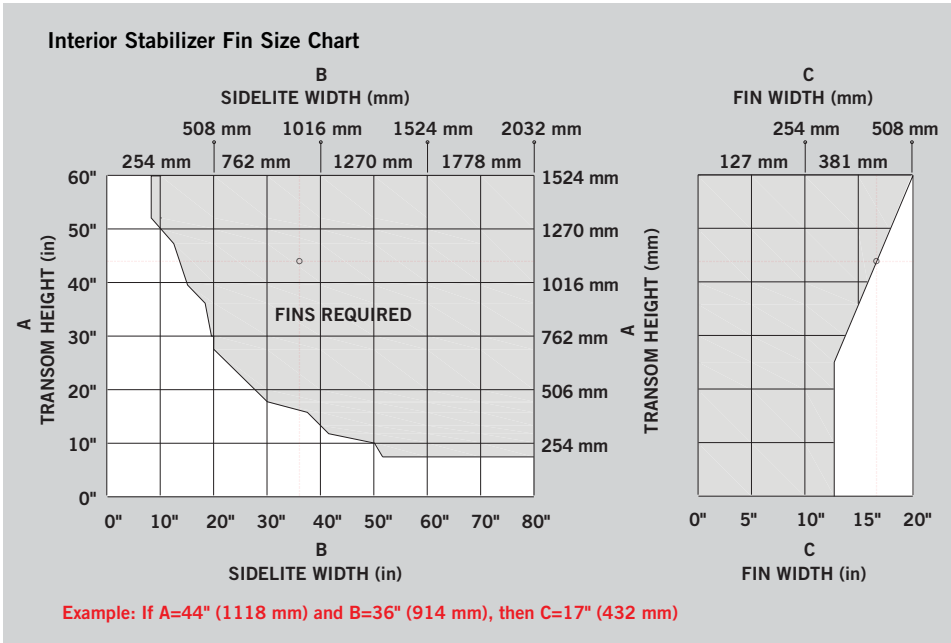
**Note:** When fins are used, they must be mechanically fastened to adequate support. If transom weight

exceeds 100 lbs (45 kg), it should also be mechanically fastened to structure above to provide additional support.

This graph constitutes general recommendations only.

Individual situations and site conditions may require additional support to adequately reduce deflection. Exterior applications up to 13' (4 m) should have job-specific calculations processed. Exterior applications over 13' (4 m) require a set of full engineering specifications.

To use the graph, determine the height of the transom (dimension A) as well as the width of the sidelite (dimension B as shown in the elevation—or a total width to nearest support point in the case of multiple sidelites). Locate the intersecting point of these two grids on the graph. If this intersecting point falls within the shaded area of the graph, fins are required. Next, determine fin top width (dimension C) on the fin width scale by matching transom height (dimension A).





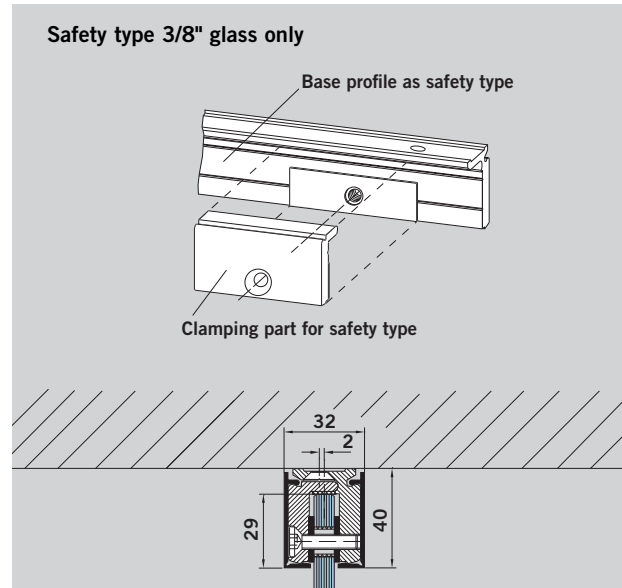
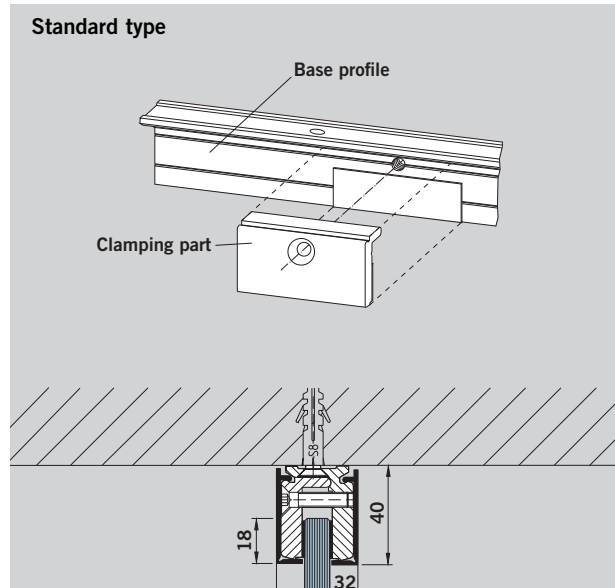
### Mechanical channel

Consists of base section with bore holes every 11-13/16" (300 mm), including clamping parts with screws and gasket strips.

#### Application:

All around frame system for tempered glass assemblies, with fittings on sides and ceiling.

The **safety type** prevents free hanging glass elements from falling down, by fixing the clamping fitting through glass holes. 33 lb (15 kg) load for each clamping part, torque for fixing screws 7.5 lb-ft / 10 Nm (M 6 = Allen key size 4).



#### Base profile standard type

157" (4000 mm) stock length

Weight in lb/ft (kg/m):

Aluminum .805 (1.200)

for 3/8" (10 mm) glass thickness:

**Art. No. 807.001**

for 1/2" (12 mm) glass thickness:

**Art. No. 807.045**

for 5/8" (15 mm) glass thickness:

**Art. No. 807.047**

for 3/4" (19 mm) glass thickness:

**Art. No. 807.049**

#### Clamping part standard type

2-3/8" (60 mm) long with screw and gasket

Weight in lb/ft (kg/m):

Aluminum 0.037 (0.055)

for 3/8" (10 mm) glass thickness:

**Art. No. 807.004**

for 1/2" (12 mm) glass thickness:

**Art. No. 807.085**

for 5/8" (15 mm) glass thickness:

**Art. No. 807.087**

for 3/4" (19 mm) glass thickness:

**Art. No. 807.089**

#### Base profile safety type

for 3/8" (10 mm) glass thickness:

**Art. No. 807.061**

#### Clamping part safety type

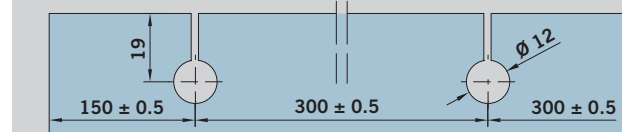
for 5/16" (8 mm) glass thickness:

**Art. No. 807.063**

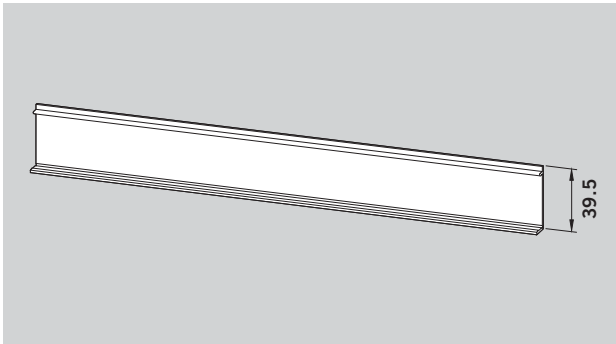
for 3/8" (10 mm) glass thickness:

**Art. No. 807.064**

#### Glass preparation for safety type

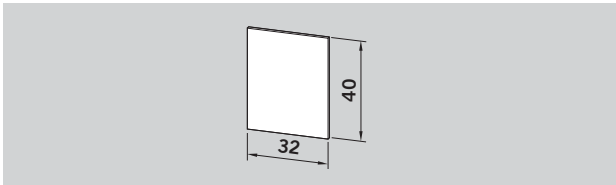


**NOTE:** Various weights and measures in metric units. Refer to page 51 for Metric/English conversion guide.



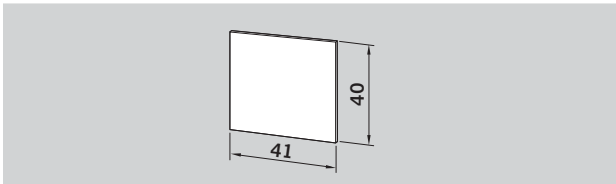
**Clip on cover profile**  
157" (4000 mm) stock length,  
brass, stainless steel, satin  
and stainless steel polished  
available  
**Art. No. 807.003**

Weight in lb/ft (kg/m):	
Aluminum	0.137 (0.203)
Brass	0.252 (0.373)
Stainless Steel	0.252 (0.373)

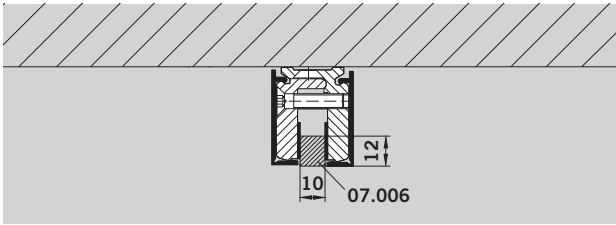


**End cap** for 3/8" (10 mm)  
and 1/2" (12 mm) glass  
thickness  
**Art. No. 807.007**

Weight in lb (kg):	
Aluminum	0.484 (0.220)
Brass	1.383 (0.629)
Stainless Steel	1.348 (0.613)



**End cap** for 5/8" (15 mm)  
and 3/4" (19 mm) glass  
thickness  
**Art. No. 807.065**



**Filler block**  
3/8" (10 mm) x 1/2" (12 mm)  
157" (4000 mm) stock length,  
**Art. No. 807.006**

Weight in lb (kg):	
Aluminum	0.693 (0.315)

## kg(lb) Conversion

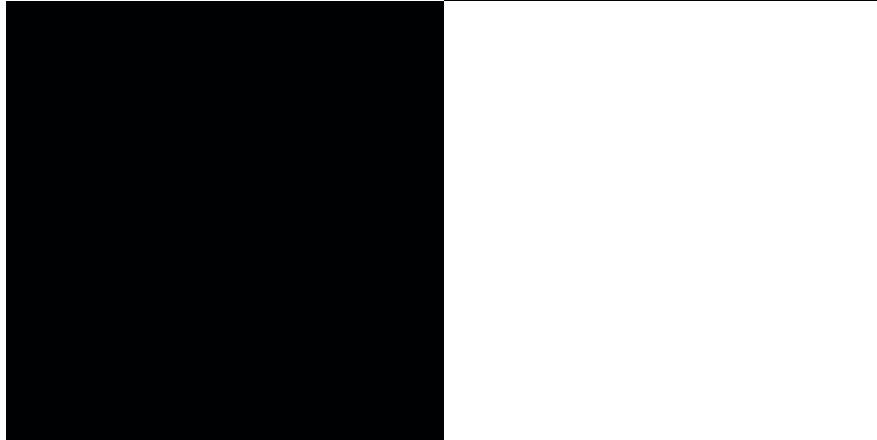
To convert to pounds, multiply kilograms by 2.2.

## inch/mm Conversion

To convert to millimeters, multiply inches by 25.4.

To convert to inches, divide millimeters by 25.4 or multiply millimeters by 0.03937.

INCHES		METRIC	INCHES		METRIC	INCHES		METRIC
Fractional	Decimal	mm	Fractional	Decimal	mm	Fractional	Decimal	mm
1/32	0.0313	0.7938		0.9055	23	2-1/2	2.5	63.5
	0.0394	1	29/32	0.90625	23.0188		2.5197	64
1/16	0.0625	1.5875	15/16	0.9375	23.8125		2.5591	65
	0.0787	2		0.9449	24		2.5984	66
3/32	0.0938	2.3813	31/32	0.96875	24.6063		2.6378	67
	0.1181	3		0.9843	25		2.6772	68
1/8	0.125	3.175	1	1	25.4		2.7165	69
5/32	0.1563	3.9688		1.0236	26	2-3/4	2.75	69.85
	0.1575	4		1.063	27		2.7559	70
3/16	0.1875	4.7625		1.1024	28		2.7953	71
	0.1969	5		1.1417	29		2.8346	72
7/32	0.2188	5.5563		1.1811	30		2.874	73
	0.2362	6		1.2205	31		2.9134	74
1/4	0.25	6.35	1-1/4	1.25	31.75		2.9528	75
	0.2756	7		1.2598	32		2.9921	76
9/32	0.2813	7.1438		1.2992	33	3	3	76.2
5/16	0.3125	7.9375		.3386	34		3.0315	77
	0.315	8		1.378	35		3.0709	78
11/32	0.3438	8.7313		1.4173	36		3.1102	79
	0.3543	9		1.4567	37		3.1496	80
3/8	0.375	9.525		1.4961	38		3.189	81
	0.393	10	1-1/2	1.5	38.1		3.2283	82
13/32	0.4063	10.3188		1.5354	39		3.2677	83
	0.4331	11		1.5748	40		3.3071	84
7/16	0.4375	11.1125		1.6142	41		3.3465	85
15/32	0.4688	11.9063		1.6535	42		3.3858	86
	0.4724	12		1.6929	43		3.4252	87
1/2	0.5	12.7		1.7323	44		3.4646	88
	0.5118	13	1-3/4	1.75	45.45	3-1/2	3.5	88.9
17/32	0.5313	13.4938		1.7717	45		3.5039	89
	0.5512	14		1.811	46		3.5433	90
9/16	0.5625	14.2875		1.8504	47		3.5827	91
	0.5906	15		1.8898	48		3.622	92
19/32	0.5938	15.0813		1.9291	49		3.6614	93
5/8	0.625	15.875		1.9685	50		3.7008	94
	0.6299	16	2	2	50.8		3.7402	95
21/32	0.6563	16.6688		2.0079	51		3.7795	96
	0.6693	17		2.0472	52		3.8189	97
11/16	0.6875	17.4625		2.0866	53		3.8583	98
	0.7087	18		2.126	54		3.8976	99
23/32	0.7188	18.2563		2.1654	55		3.937	100
	0.748	19		2.2047	56	4	4	101.6
3/4	0.75	19.05		2.2441	57		4.3307	110
25/32	0.7813	19.8438	2-1/4	2.25	57.15	4-1/2	4.5	114.3
	0.7874	20		2.2835	58		4.7244	120
13/16	0.8125	20.6375		2.3228	59	5	5	127
	0.8268	21		2.3622	60		5.1181	130
27/32	0.8438	21.4313		2.4016	61		5.5118	140
	0.8661	22		2.4409	62		5.9055	150
7/8	0.875	22.225		2.4803	63	6	6	152.4



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