



Universal, ARCOS & EA Patch Fittings for Tempered Glass Assemblies

CONTENTS

DORMA Patch Fittings	Overview	3	
	Patch Fitting Selection Chart	4	
	Standard Assembly Types	5	
Universal Patch Fittings	General Information	6	
	Type Selection	7	
	Universal Patch Fittings	8	
	Universal Connectors	10	
	Glass Preparation Details	15	
	Construction	20	
ARCOS Universal Patch Fittings	General Information	21	
	Type Selection	22	
	ARCOS Universal Patch Fittings	23	
	ARCOS Universal Connectors	25	
	Glass Preparation Details	26	
	Construction	27	
DORMA EA Patch Fittings	General Information	28	
	DORMA EA Patch Fittings	30	
	DORMA EA Top Centers for Wood and Steel Frames	32	
	Glass Preparation Details	33	
Accessories	Floor Bearings, Floor Sockets	34	
	Pivots	35	
	Fixing Plates, Threaded Rod, Patch Lock	36	
	Fin Usage and Assembly	38	
	Mechanical Channel, Clamping Fittings	39	
	Clip-on Cover Profile, End Caps	39	



DORMA PATCH FITTINGS

For tempered glass assemblies

DORMA 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.

In addition to standard patch fitting solutions found in the DORMA USA, Inc offering, the DORMA family may have additional products available to address unusual, curved, angled or other application challenges.

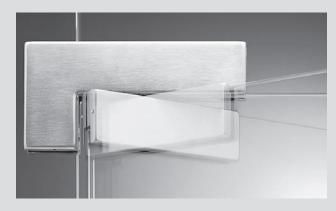
Please contact our Customer Service or Technical Service teams for assistance with application solutions not found in America's literature or price lists. Additional cost and lead-time may be required.

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 solventfree cleaning agents.
- Brass surfaces (without surface protection) have to be treated occasionally with an appropriate maintenance agent to avoid tarnishing.







DORMA Universal

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.

ARCOS Universal

The ARCOS Universal range offers patch fittings and connector hardware for transoms and sidelites, 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 a uniform appearance.

DORMA EA

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

PATCH FITTING SELECTION CHART

Applications & features	DORMA Universal	ARCOS Universal	DORMA EA	Accessories
For external assemblies	+++	+++	+++	
For internal assemblies	+++	+++	+++	
For standard tempered glass applications	+++	+++	+++	
For individually designed assemblies with corner fittings, fin fittings, etc.	+++	+	+	+++
For double-acting doors	•	•		
For single-acting doors	•	•	•	
Glass thickness – in (mm)	3/8" (10), 1/2" (12) ¹	3/8" (10), 1/2" (12) ¹	3/8" (10), 1/2" (12) ¹	
Max. door weight– lb (kg)	275 lb (125 kg)	220 lb (100 kg)	220 lb (100 kg)	
Max. door width – in (mm)	48" (1219)	43" (1092)	43" (1092)	
Materials & finishes*				
Aluminum, silver anodized, EV1 (101)	•		-	
Similar to satin stainless (107)			-	
Aluminum, dark bronze anodized (108)				
Black anodized (109)				
Aluminum, EV1 (114)				
Special anodizing (199)	•		-	
Special clad plated (299)		•		
Brass, polished (503)	•	■ 2	2	
Satin brass w/o lacquer (599)	•			
Satin bronze no lacquer (600)	•			
Polished bronze w/o lacquer (601)	•			
Stainless steel, satin (700)	•	•		
Stainless steel, polish (701)	•	•		
Special paint or powder coating (999)	2	•		
Page	6	21	28	34

 $[\]ensuremath{^{*}}\mbox{Not}$ all finishes are available with all products.

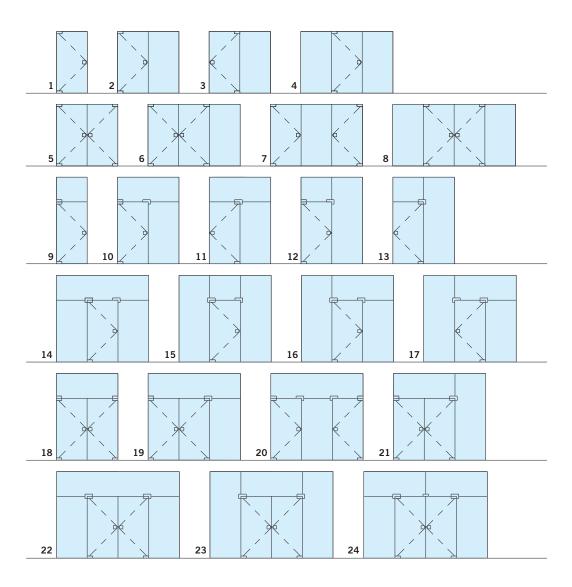


- +++ Suitable
- + Partially Suitable
- Standard
- Optional
- Under certain circumstances also 5/8" (15) and 3/4" (19) glass thickness
- Available upon request

NOTE:

All measurements are shown in inches followed by (millimeters); for example: 3/8" (10).

STANDARD ASSEMBLY TYPES





DORMA UNIVERSAL

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-acting doors in single-leaf or double-leaf designs.

Easy glass preparation, secure mounting

DORMA 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) through 3/4" (19) for most fittings.

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] 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

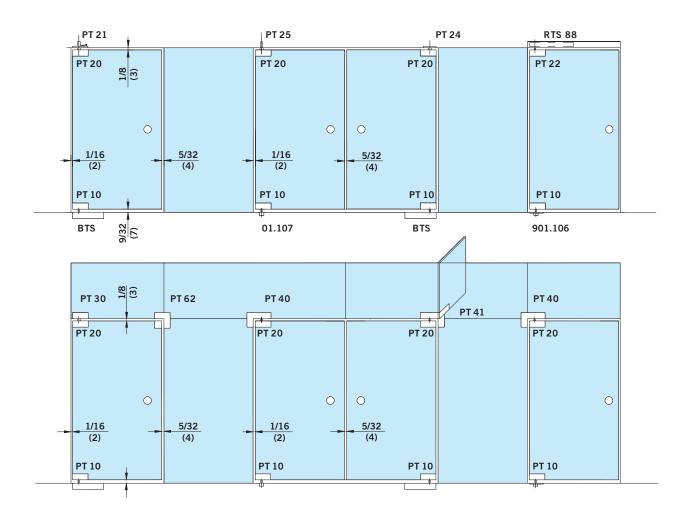
Most common patch fittings and finishes are available quickly.



TYPE SELECTION

Tempered glass assemblies with fittings 2-3/4" (70) pivot point.

For all standard assembly types, see page 5.



BTS = Floor closer

PT = Center hung door fittings

RTS = Header/Transom closer (see Technical Information DORMA RTS Series for details) Maximum door weight & width for DORMA Universal fittings

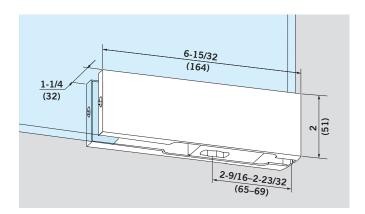
Max. door weight 275 lb (125 kg) Max. door width 48" (1219)

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

Torque for mounting screws

Screws M 6 7.5 lb-ft / 10 Nm (4)* Screws M 6 11 lb-ft / 15 Nm (5)* Screws M 8 15 lb-ft / 20 Nm (5)* *Allan key size If angle fittings or fin fittings are used "Left" or "Right" has to be determined by view from outside and above.

PATCH FITTINGS



PT 10 bottom patch

with insert for DORMA floor closer, pivot, or round pivot Ø 9/16" (14)

- 3/8" (10) glass Ref. No. 833.300

- 1/2" (12) glass Ref. No. 833.100

- 5/8" (15) glass Ref. No. 833.301

- 3/4" (19) glass

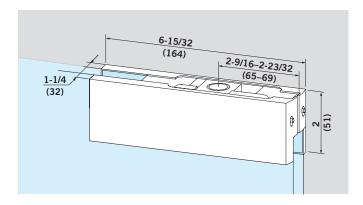
Ref. No. 833.101

Pivot location

2-3/4" (70)

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 Ø 19/32" (15) used with PT21

- 3/8" (10) glass

Ref. No. 833.310

- 1/2" (12) glass Ref. No. 833.110

- 5/8" (15) glass

Ref. No. 833.311

- 3/4" (19) glass

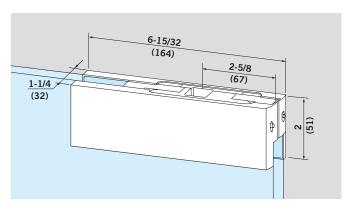
Ref. No. 833.111

Pivot location

2-3/4" (70)

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) glass

Ref. No. 833.312

- 1/2" (12) glass

Ref. No. 833.112

- 5/8" (15) glass

Ref. No. 833.313

- 3/4" (19) glass

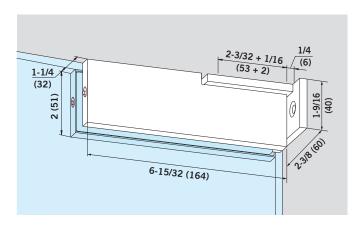
Ref. No. 833.113

Pivot location

2-3/4" (70)

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) glass

Ref. No. 833.314

- 1/2" (12) glass

Ref. No. 833.109

- 5/8" (15) glass

Ref. No. n/a

- 3/4" (19) glass

Ref. No. n/a

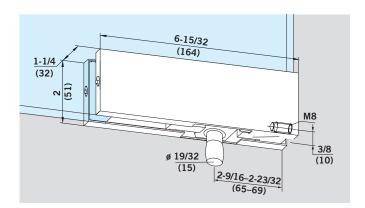
Pivot location

2-3/16" (55)

Weight in Ib (kg)

Aluminum 1.197 (0.544) Brass 1.522 (0.692) Stainless steel 1.483 (0.674)

Max. door width 39-3/8" (1000) Max. door weight 154 lb (70 kg)



PT 30 transom patch

with pivot Ø 19/32" (15), with M8 tapped hole at side

- 3/8" (10) glass Ref. No. 833.330

- 1/2" (12) glass Ref. No. 833.131

- 5/8" (15) glass

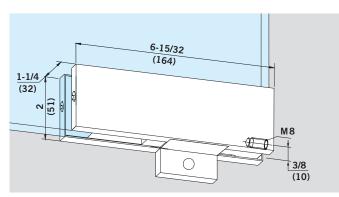
Ref. No. 833.321

- 3/4" (19) glass Ref. No. 833.121 **Pivot location**

2-3/4" (70)

Weight in Ib (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) glass

Ref. No. 833.332

- 1/2" (12) glass

Ref. No. 833.132 - 5/8" (15) glass

Ref. No. 833.333

- 3/4" (19) glass

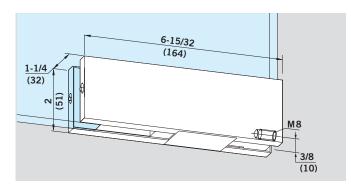
Ref. No. 833.133

Pivot location

2-3/4" (70)

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) glass

Ref. No. 833.334

- 1/2" (12) glass

Ref. No. 833.134

- 5/8" (15) glass

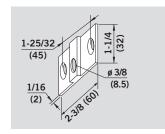
Ref. No. 833.335

- 3/4" (19) glass

Ref. No. 833.135

Weight in lb (kg)

Aluminum 1.142 (0.519) Brass 1.419 (0.645) 1.256 (0.571) Stainless steel



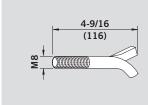
Fixing plate

for transom patch PT 30

Ref. No. 903.128

Weight in Ib (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 transom patch PT 30

Ref. No. 901.133

Weight in Ib (kg) 0.088 (0.040)



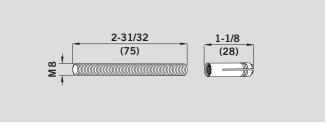
Threaded rod

M 8 with plug for transom patch PT 30

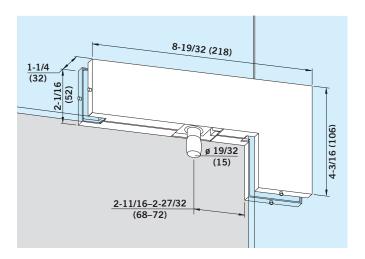
Ref. No. 901.134

Weight in Ib (kg)

0.070 (0.032)



CONNECTORS



PT 40 transom sidelite patch with pivot Ø 19/32 (15)

- 3/8" (10) glass **Ref. No. 833.343** - 1/2" (12) glass

Ref. No. 833.143

- 5/8" (15) glass **Ref. No. 833.344**

- 3/4" (19) glass

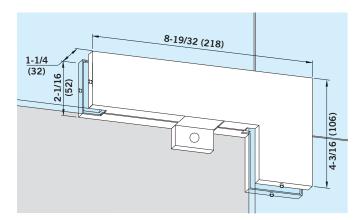
Ref. No. 833.144

Pivot location

2-3/4" (70)

Weight in lb (kg)

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



PT 40 transom sidelite patch with stop insert

- 3/8" (10) glass **Ref. No. 833.336**

- 1/2" (12) glass **Ref. No. 833.136**

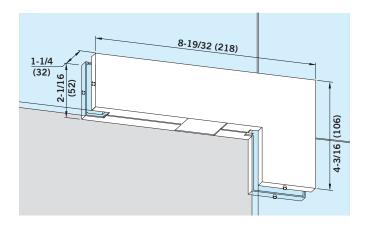
- 5/8" (15) glass

Ref. No. 833.337

- 3/4" (19) glass **Ref. No. 833.137**

Weight in Ib (kg)

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



PT 40 transom sidelite patch with blank insert

- 3/8" (10) glass

Ref. No. 833.338

- 1/2" (12) glass **Ref. No. 833.138**

- 5/8" (15) glass

Ref. No. 833.339

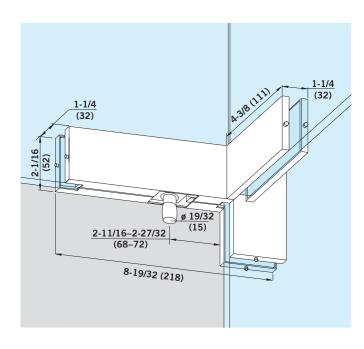
- 3/4" (19) glass

Ref. No. 833.139

Weight in Ib (kg)

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

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



PT 41 transom sidelite patch with fin fitting inside

with pivot Ø 19/32 (15) (shown) (LH)/(RH)

- 3/8" (10) glass

Ref. No. *833.355/833.354

- 1/2" (12) glass

Ref. No. *833.155/833.154

- 5/8" (15) glass

Ref. No. *833.356/833.357

- 3/4" (19) glass

Ref. No. *833.156/833.157

Pivot location

2-3/4" (70)

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) (LH)/(RH)

- 3/8" (10) glass

Ref. No. *833.391/833.393

- 1/2" (12) glass

Ref. No. *833.191/833.193

- 5/8" (15) glass

Ref. No. *833.392/833.394

- 3/4" (19) glass

Ref. No. *833.192/833.194

PT 41 transom sidelite patch with fin fitting inside

with blank insert (not shown) (LH)/(RH)

- 3/8" (10) glass

Ref. No. *833.395/833.397

- 1/2" (12) glass

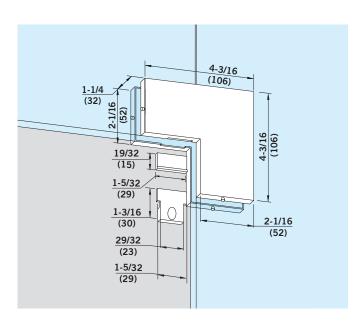
Ref. No. *833.195/833.197

- 5/8" (15) glass

Ref. No. *833.396/833.398

- 3/4" (19) glass

Ref. No. *833.196/833.198



PT 60/61 transom sidelite connector

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

- 3/8" (10) glass

Ref. No. 803.150

- 1/2" (12) glass

Ref. No. 803.150 - 5/8" (15) glass

Ref. No. 803.452

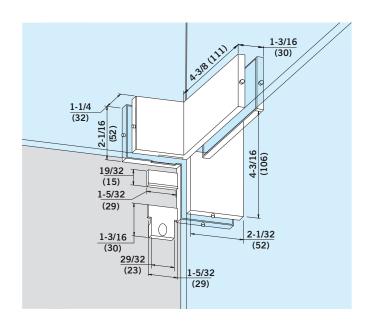
- 3/4" (19) glass

Ref. No. 803.452

Specify glass thickness.

Weight in Ib (kg)

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



PT 60/61 transom sidelite connector with fin fitting inside

for double or single acting doors, includes 1 stop and 2 blank inserts (LH)/(RH)

- 3/8" (10) glass

Ref. No. 803.158/803.157

- 1/2" (12) glass

Ref. No. 803.158/803.157

- 5/8" (15) glass **Ref. No. n/a**

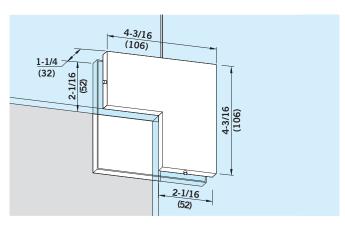
- 3/4" (19) glass

Ref. 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) glass

Ref. No. 803.173

- 1/2" (12) glass

Ref. No. 803.173

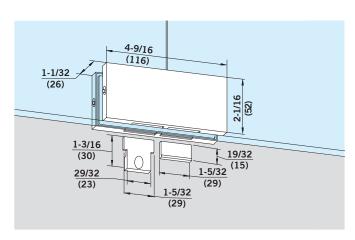
- 5/8" (15) glass Ref. No. n/a

- 3/4" (19) glass

Ref. No. n/a

Weight in Ib (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) glass

Ref. No. 801.150

- 1/2" (12) glass

Ref. No. 801.150

- 5/8" (15) glass

Ref. No. 801.158

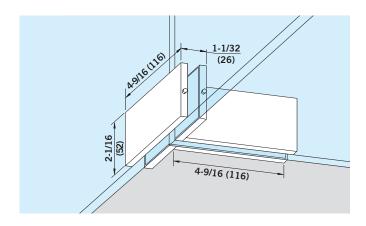
- 3/4" (19) glass

Ref. No. 803.158

Specify glass thickness.

Weight in Ib (kg)

Aluminum 0.598 (0.272) Brass 0.766 (0.348) Stainless steel 0.737 (0.335)



PT 71 transom connector

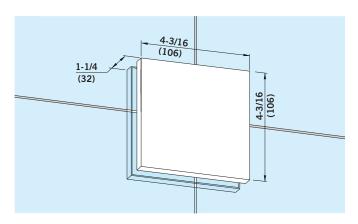
with fin fitting

- 3/8" (10) glass **Ref. No. 801.161**

- 1/2" (12) glass **Ref. No. 801.161**

Weight in lb (kg)

Aluminum 1.008 (0.458) Brass 1.375 (0.625) Stainless steel 1.338 (0.608)



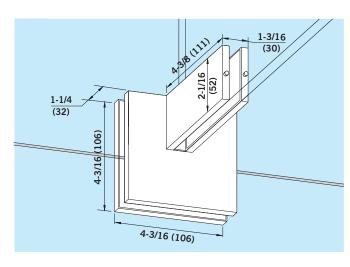
PT 80 connector

- 3/8" (10) glass **Ref. No. 803.170**
- 1/2" (12) glass
- Ref. No. 803.170
- 5/8" (15) glass
- Ref. No. 803.472
- 3/4" (19) glass **Ref. No. 803.472**

Specify glass thickness

Weight in Ib (kg)

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



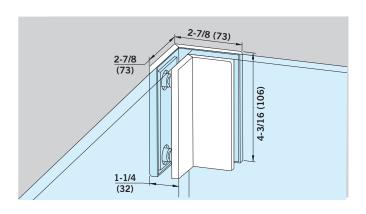
PT 81 connector

- with fin fitting
 3/8" (10) glass
- Ref. No. 803.175
- 1/2" (12) glass

Ref. No. 803.175

Weight in lb (kg)

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



PT 80-90 connector

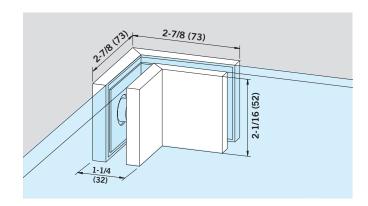
angled 90°

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

Ref. No. 803.171

Weight in lb (kg)

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



PT 80-90 short connector

shortened, angle 90°

- 3/8" (10) glass

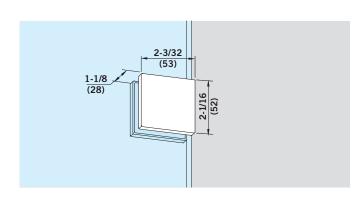
Ref. No. 803.470

- 1/2" (12) glass

Ref. No. 803.470

Weight in Ib (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) glass **Ref. No. 807.021**

- 1/2" (12) glass

Ref. No. 807.021

- 5/8" (15) glass

Ref. No. 807.210

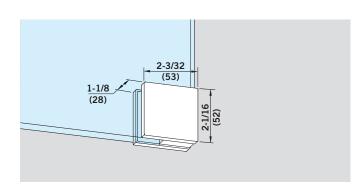
- 3/4" (19) glass

Ref. No. 807.210

Specify glass thickness.

Weight in Ib (kg)

Aluminum 0.264 (0.120) Brass 0.352 (0.160) Stainless steel 0.341 (0.155)



PT 91 corner fitting

- 3/8" (10) glass

Ref. No. 807.023

- 1/2" (12) glass

Ref. No. 807.023

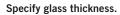
- 5/8" (15) glass **Ref. No. 807.211**

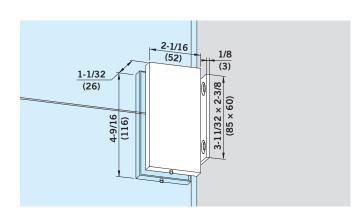
- 3/4" (19) glass

Ref. No. 807.211

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) glass

Ref. No. 801.153

- 1/2" (12) glass

Ref. No. 801.153

Weight in Ib (kg)

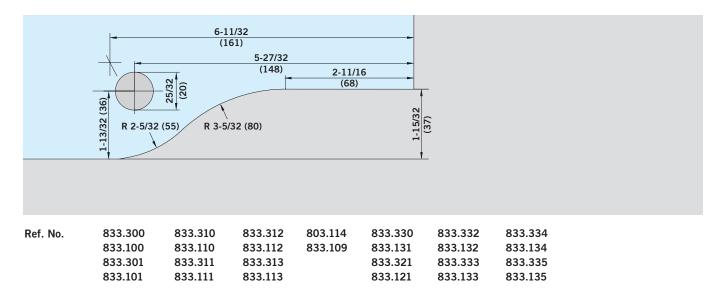
Aluminum 0.689 (0.313) Brass 0.856 (0.389) Stainless steel 0.827 (0.376)

GLASS PREPARATION DETAILS

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

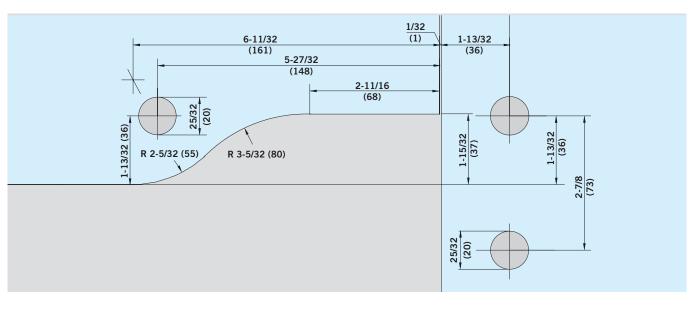
Top and bottom patches, transom patch

Scale 1 : 2

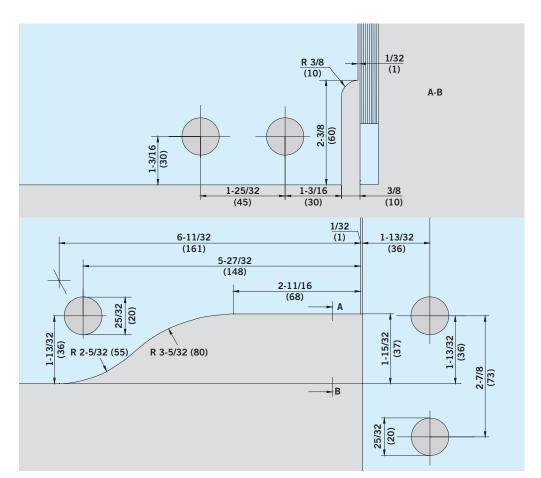


PT 40
Patch for transom and sidelite

Scale 1 : 2



Ref. 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 transom and sidelite with fin fitting inside

Ref. No. see below.

Scale 1 : 2

Ref. No.

833.355/833.354 833.155/833.154 833.356/833.357 833.156/833.157 833.391/833.393 833.191/833.193 833.392/833.394 833.192/833.194 833.395/833.397 833.195/833.197 833.396/833.398 833.196/833.198 PT 60/61, PT 62

Connectors for transoms and sidelites

Ref. No. 803.150/803.452

and connector with stop Ref. No. 803.173

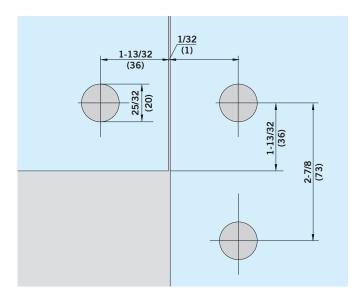
Ref. No. 803.157/803.158 Glass preparation for fin fitting see PT 81 (page 18)

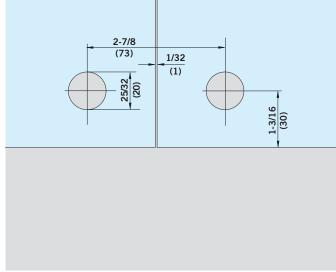
Scale 1 : 2

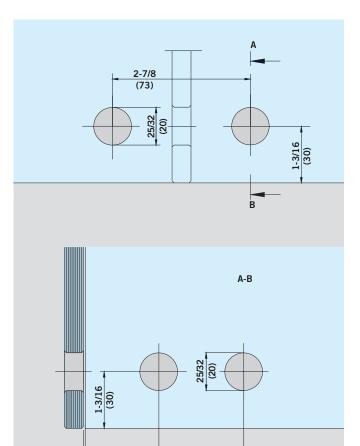
PT 70

Transom connector Ref. No. 801.150/801.158

Scale 1 : 2







1-25/32 (45)

1/32 (1)

1-17/32 (39)

PT 71Transom connector with fin fitting

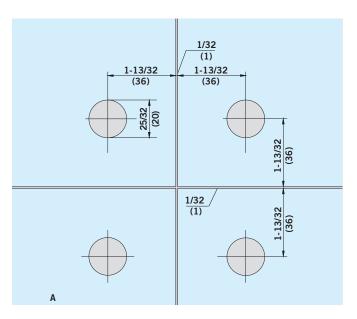
Ref. No. 801.161

Scale 1 : 2

PT 80 Connector

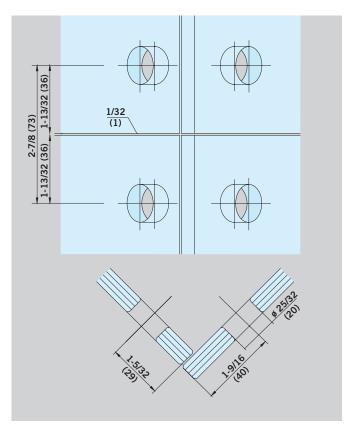
Ref. No. 803.170/803.472

Scale 1 : 2



PT 80 - 90 Angled connector, 90° Ref. No. 803.171

Scale 1 : 2



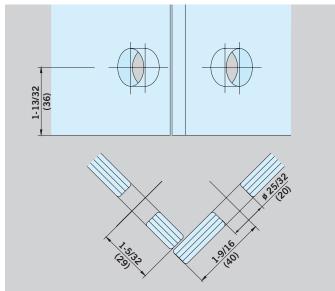
PT 80-90 short

Angled connector, 90°

shortened

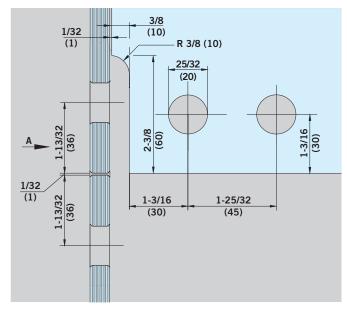
Ref. No. 803.470

Scale 1 : 2



PT 81 Connector with fin fitting Ref. No. 803.175

Scale 1 : 2

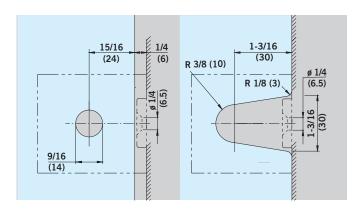


PT 90

Screw on fitting

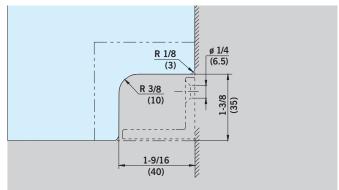
Ref. No. 807.021/807.210

Scale 1 : 2



PT 91 Corner fitting Ref. No. 807.023/807.211

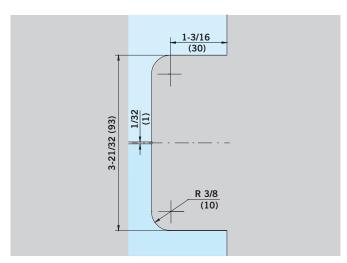
Scale 1:2



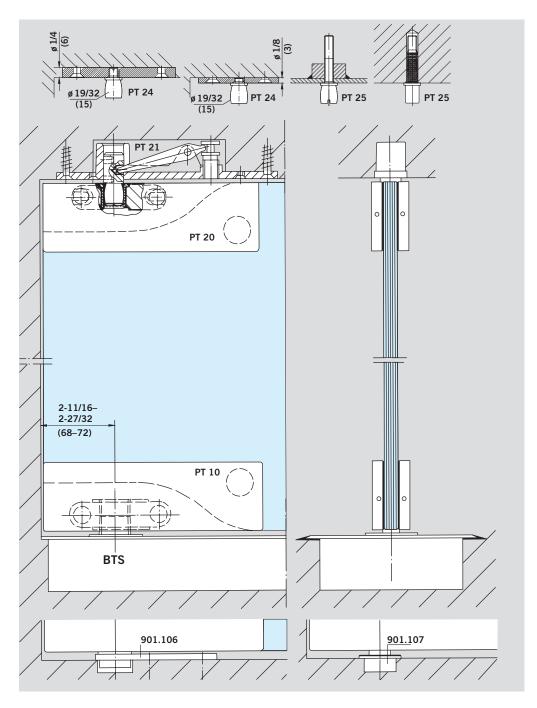
Side connector with fixing plate

Ref. No. 801.153

Scale 1 : 2



CONSTRUCTION



Mounting of pivots and top pivot pins

Mounting of top pivots and top pivot pins for PT 20

Mounting of floor closers or pivot bearings for PT 10

ARCOS UNIVERSAL

Unique design with in-built system versatility

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

Easy glass preparation, secure fixing

DORMA 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) and 1/2" (12) 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) 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 pin is virtually invisible.

Matching range of locks

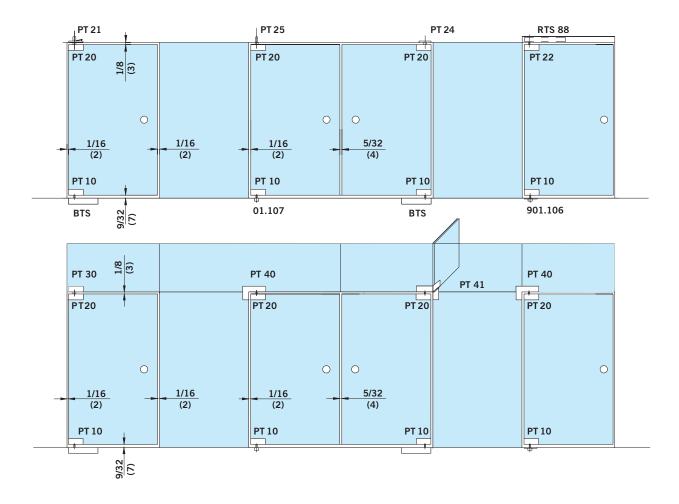
The ARCOS Universal range includes every type of accessory, and of course, a variety of locks and strike boxes in a matching design concept, giving the designer plenty of options to choose from. Contact Customer Service for more details.



TYPE SELECTION

Tempered glass assemblies with fittings 2-3/4" (70) pivot point.

For all standard assembly types, see page 5.



BTS = Floor closer

PT = Center hung door fittings

RTS = Header/Transom closer (see Technical Information DORMA RTS Series for details)

Maximum door weight & width for DORMA Universal fittings

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

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

Torque for mounting screws

Screws M 6

7.5 lb-ft / 10 Nm (4)*

Screws M 6

11 lb-ft / 15 Nm (5)*

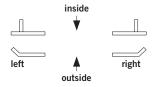
Screws M 8

15 lb-ft / 20 Nm (5)*

*Hex key size

NOTE:

If angle fittings or fin fittings are used "Left" or "Right" has to be determined by view from outside and above.



ARCOS Universal is available in the following surface finishes

- Aluminum, EV1 (114)
- Satin stainless steel (700)
- Polished stainless steel (701
- Aluminum, dark bronze anodized (108)
- Black Anodized (109)

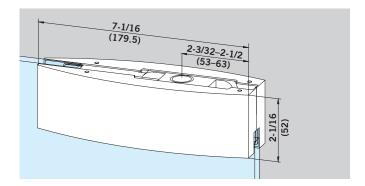
Special finishes may be available upon request.

1. Available upon request

PATCH FITTINGS

Shown with 3/8" (10) and 1/2" (12) glass.

For accessories, see page 34.



ARCOS PT 20

top patch

with plastic socket for top pivot Ø 19/32 (15), used with PT21

- 3/8" (10) glass **Ref. No. 826.110**

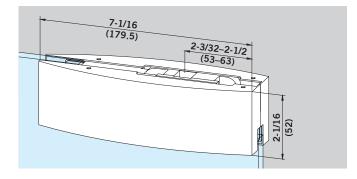
- 1/2" (12) glass Ref. No. 833.210

Weight in lb (kg)

Pivot location

2-5/8" (67)

Aluminum 1.049 (0.477) Stainless steel 1.265 (0.575)



ARCOS PT 22

top patch

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

- 3/8" (10) glass **Ref. No. 826.112** - 1/2" (12) glass

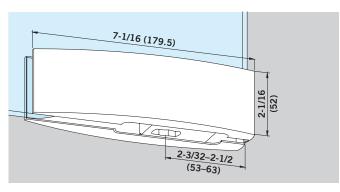
Ref. No. 833.208

Pivot location

2-5/8" (67)

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 closer spindle, or round pivot Ø 9/16" (14)

- 3/8" (10) glass

Ref. No. 826.100

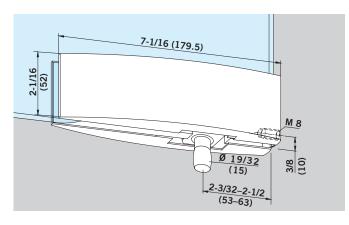
- 1/2" (12) glass Ref. No. 833.200

Pivot location

2-5/8" (67)

Weight in lb (kg)

Aluminum 1.241 (0.564) Stainless steel 1.456 (0.662)



ARCOS PT 30

transom patch

with pivot \emptyset 19/32 (15), with M 8 tapped hole at side

- 3/8" (10) glass

Ref. No. 826.120

- 1/2" (12) glass

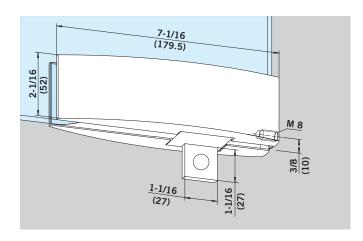
Ref. No. 833.220

Pivot location

2-5/8" (67)

Weight in lb (kg)

Aluminum 1.161 (0.528) Stainless steel 1.399 (0.636)



ARCOS PT 30

transom patch

with stop insert

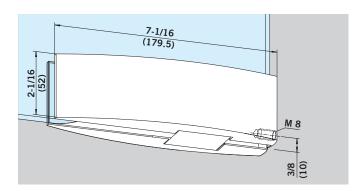
- 3/8" (10) glass

Ref. No. 826.420

- 1/2" (12) glass Ref. No. 833.222

Weight in lb (kg)

Aluminum 1.161 (0.528) Stainless steel 1.276 (0.580)



ARCOS PT 30

transom patch

with blanking insert

- 3/8" (10) glass

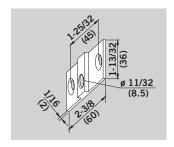
Ref. No. 826.421

- 1/2" (12) glass

Ref. No. 833.223

Weight in lb (kg)

Aluminum 1.141 (0.519) Stainless steel 1.256 (0.571)

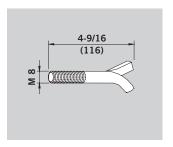


Fixing plate for transom patch PT 30 Ref. No. 903.128

Weight in lb (kg)

Aluminum 0.035 (0.016) Brass 0.083 (0.038)

Stainless steel not available, satin chrome on brass supplied.



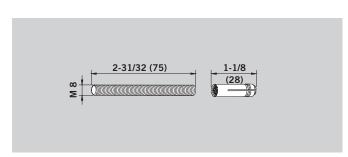
Wall anchor

with thread M 8 for transom patch PT 30

Ref. No. 901.133

Weight in Ib (kg)

0.088 (0.040)



Threaded rod

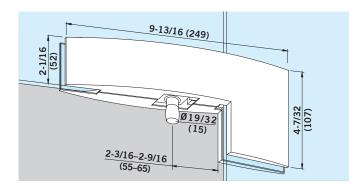
M 8 with plug for transom patch PT 30

Ref. No. 901.134

Weight in Ib (kg)

0.070 (0.032)

CONNECTORS



ARCOS PT 40 patch for transom and sidelite

with pivot Ø 19/32 (15)

- 3/8" (10) glass

Ref. No. 826.140

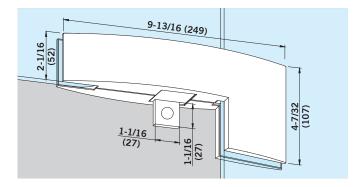
- 1/2" (12) glass **Ref. No. 833.240**

Pivot location

2-5/8" (67)

Weight in lb (kg)

Aluminum 1.661 (0.755) Stainless steel 2.061 (0.937)



ARCOS PT 40 patch for transom and sidelite

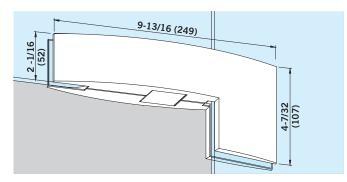
with stop insert

- 3/8" (10) glass **Ref. No. 826.440**

- 1/2" (12) glass Ref. No. 833.241

Weight in lb (kg)

Aluminum 1.661 (0.755) Stainless steel 2.061 (0.937)



ARCOS PT 40 patch for transom and sidelite

with blanking insert

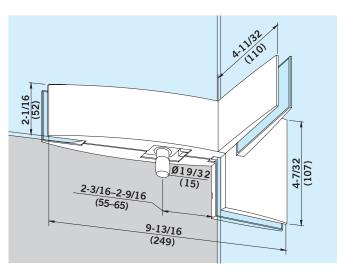
- 3/8" (10) glass **Ref. No. 826.441**

- 1/2" (12) glass

Ref. No. 833.242

Weight in Ib (kg)

Aluminum 1.641 (0.746) Stainless steel 2.041 (0.928)



ARCOS PT 41 patch for transoms and sidelite with fin fitting inside

with pivot Ø 19/32" (15)

- 3/8" (10) glass Ref. No. *826.162/826.163

- 1/2" (12) glass Ref. No. *833.245/833.246

With stop insert (not illustrated)

- 3/8" (10) glass

Ref. No. *826.262/826.263

- 1/2" (12) glass

Ref. No. *833.248/833.249

With blanking insert

- 3/8" (10) glass

(not illustrated)

Ref. No. *826.264/826.265

- 1/2" (12) glass

Ref. No. *833.250/833.251

Pivot location

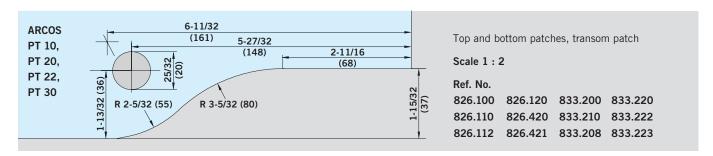
2-5/8" (67)

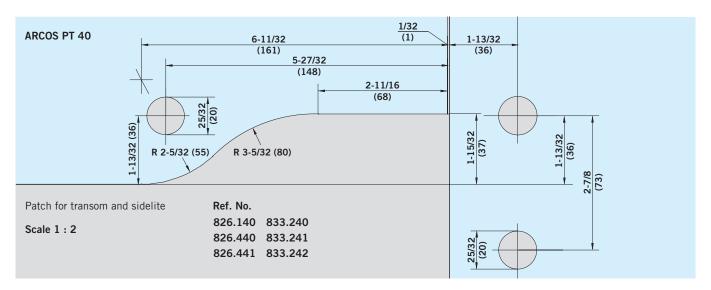
Weight in lb (kg)

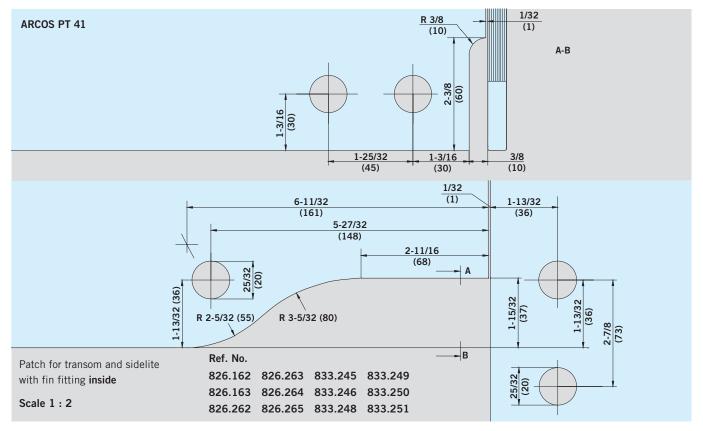
Aluminum 2.094 (0.952) Stainless steel 2.633 (1.197)

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

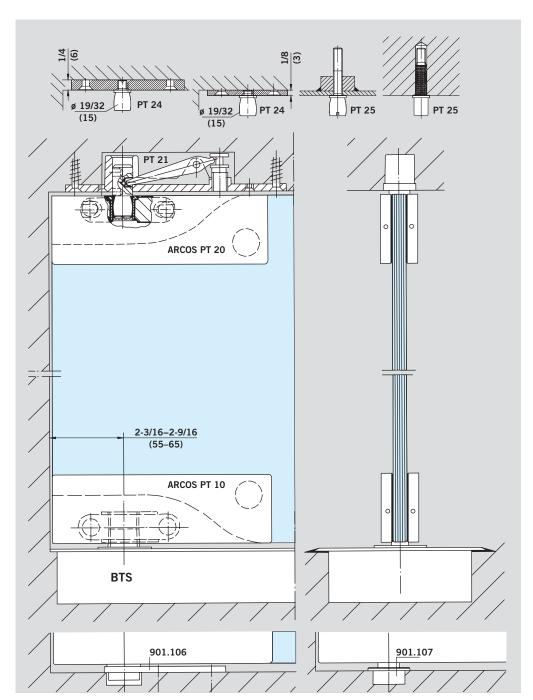
GLASS PREPARATION DETAILS







CONSTRUCTION



Mounting of pivots and top pivot pins

Mounting of top pivots and top pivot pins for ARCOS 20

Mounting of floor closers, floor bearings for ARCOS 10

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 European 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 mounting

DORMA 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) and 1/2" (12) 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

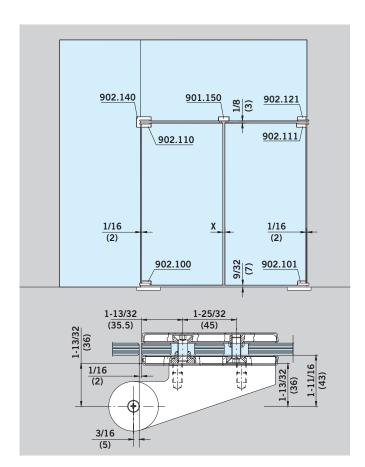
The DORMA EA range includes every type of accessory, and of course, a variety of locks and strike boxes in a matching design concept, giving the designer plenty of options to choose from. Contact Customer Service for more details.



DORMA EA corner patches are available in the following finishes

- Aluminum, silver anodized EV1, (101)
- Similar to satin stainless steel (107)
- Aluminum, dark bronze anodized DB (108)
- Black anodized (109)
- Polished chrome plated (501)
- Brass, polished (503)





Offset hung doors in tempered glass assemblies

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

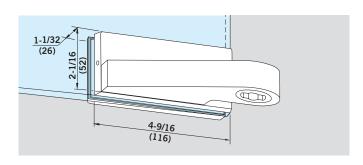
For door weights up to 220 lb (100 kg) and widths up to 47" (1200), DRS door rails should be used.

DORMA EA patch fittings for offset hung doors in tempered glass assemblies have a 1-13/32" (36) offset = 1-11/16" (43) from pivot point to glass surface.

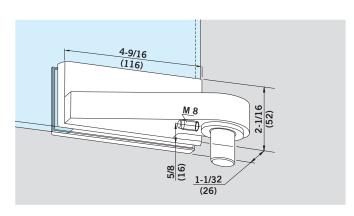
Torque for fixing screws Screws M 8 15 lb-ft / 20 Nm

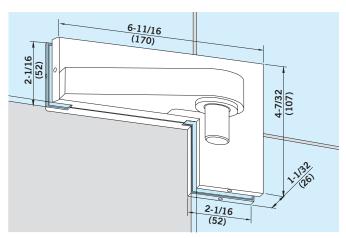
PATCH FITTINGS

1-13/32" (36) offset = 1-11/16" (43) from pivot point to glass surface, complete, for 3/8" (10) and 1/2" (12) glass thickness.



4-9/16 (116)





Bottom patch

to suit DORMA floor closer spindle, or round pivot Ø 9/16" (14)

Ref. No. *902.100/902.101 (LHR)(RHR)

Weight in Ib (kg)

Aluminum 1.606 (0.730) Stainless steel 2.807 (1.276)

Top patch

Ref. No. *902.110/902.111 (LHR)(RHR)

Weight in lb (kg)

Aluminum 1.452 (0.660) Stainless steel 2.734 (1.243)

Transom patch

bushing outside Ø 25/32" (20), pivot Ø 19/32" (15)

Ref. No. *902.120/902.121 (LHR)(RHR)

Weight in lb (kg)

Aluminum 1.401 (0.637) Stainless steel 2.624 (1.193)

See page xx for wall connector plate **Ref. No. 801.127**

Patch for transom and sidelite

bushing outside

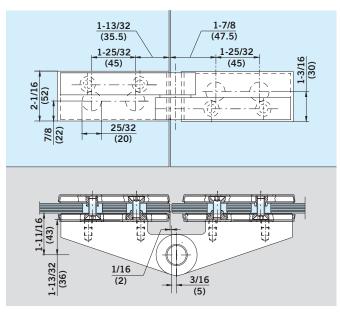
Ø 25/32" (20),

pivot Ø 19/32" (15)

Ref. No. *902.140/902.141 (LHR)(RHR)

Weight in Ib (kg)

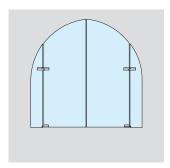
Aluminum 1.830 (0.832) Stainless steel 3.099 (1.409)



Top patch complete with pivot for sidelite Ref. No. *902.200/902.201 (LHR)(RHR)

Weight in lb (kg)

Aluminum 3.113 (1.415) Stainless steel 5.678 (2.581)



(52) 1.11.16 (36) 1.11.16 (37) 1.11.16 (4.9)/16 (116) (57) (58)

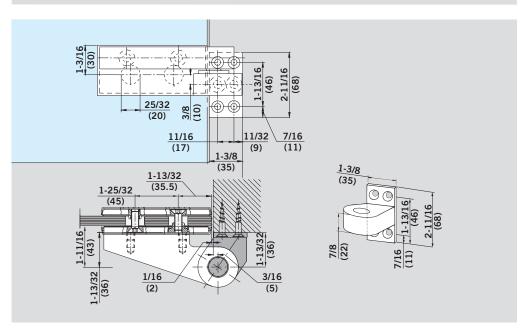
Top patch complete with pivot

for wall mounting

Ref. No. *902.202/902.203 (LHR)(RHR)

Weight in Ib (kg)

Aluminum 2.809 (1.277) Stainless steel 5.561 (2.528)



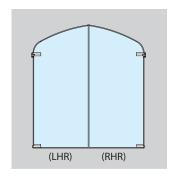
Top patch

complete with pivot for frame mounting

Ref. No. *902.204/902.205 (LHR)(RHR)

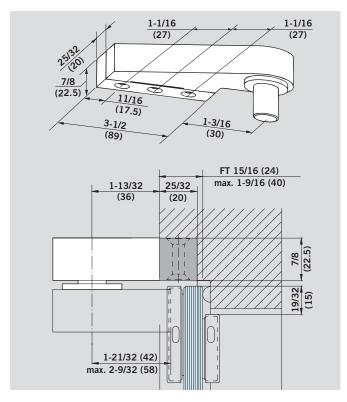
Weight in lb (kg)

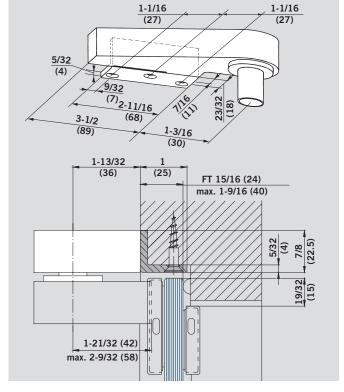
Aluminum 1.969 (0.895) Stainless steel 3.850 (1.750)



* Left/right hand reverse is determined by view from hanging pull side.

TOP CENTERS FOR WOOD & STEEL FRAMES





Frame top center with fixing block Ref. No. 902.150

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

Frame top center with angle bracket Ref. No. 902.151

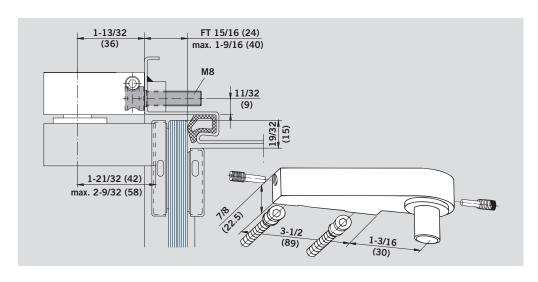
 Weight in lb (kg)

 Aluminum
 0.996 (0.453)

 Brass
 2.109 (0.959)

Weight in Ib (kg)

Aluminum 1.036 (0.471) Stainless steel 2.149 (0.977)



Frame top center

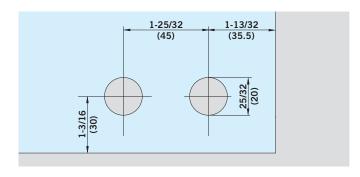
only for steel frames, with special wedge screw mounting Ref. No. *902.152/902.153 (LHR)(RHR)

Weight in Ib (kg)

Aluminum 0.858 (0.390) Brass 4.171 (1.896)

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

GLASS PREPARATION DETAILS

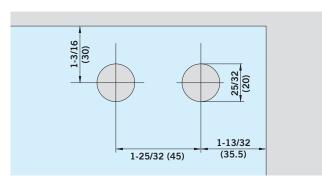


Bottom patches

Ref. No: left hand 902.100

right hand 902.101

Scale 1 : 2



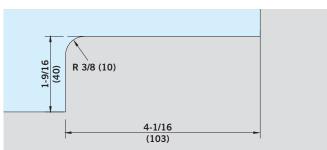
Top patches

Ref. No: left hand

902.110

right hand 902.111

Scale 1:2



Overhead patches

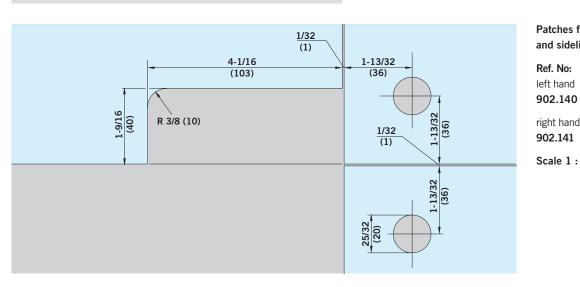
Ref. No:

left hand 902.120

right hand

902.121

Scale 1 : 2



Patches for transom and sidelite

Ref. No:

left hand

right hand

902.141

Scale 1 : 2

ACCESSORIES

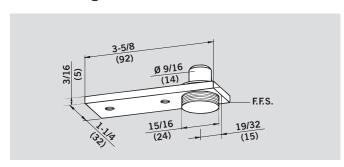
Accessories for patch fittings ... perfection in detail



DORMA offers a wide range of original patch fitting accessories to optimize the technical excellence and cost effectiveness of tempered glass systems of all types. As well as functional components, such as special

floor pivots, DORMA offers security-relevant options that enhance the exceptional functional efficiency, reliability, and long service life expected of DORMA glass systems and solutions.

Floor bearings & floor socket



Floor pivot bearing (355.6)

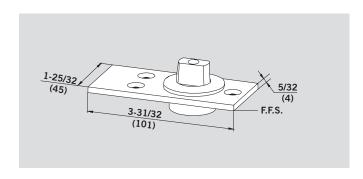
with round pivot Ø 9/16" (14), and cover plate; height adjustable by 3/16" (5)

max. door weight 220 lb (100 kg) Ref. No. 901.106

Weight in lb (kg)

Aluminum 0.341 (0.155) Brass 0.374 (0.170) Stainless steel 0.372 (0.169)

F.F.S.= Finished Floor Surface



Floor bearing (355.5)

with DORMA profile spindle (longer spindle on request)

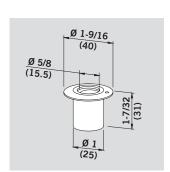
max. door weight 440 lb (200 kg) Ref. No. 904.602

Weight in lb (kg) 0.559 (0.254)

Stainless Steel max. door weight 440 lb (200 kg) Ref. No. 904.603

Weight in lb (kg) 0.563 (0.256)

F.F.S.= Finished Floor Surface



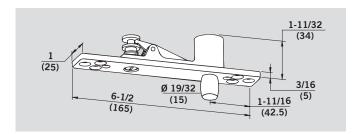
Floor socket

eccentric, zinc coated brass, with adjustable plastic socket insert

Ref. No. 805.194

Weight in lb (kg) 0.044 (0.020)

Pivots



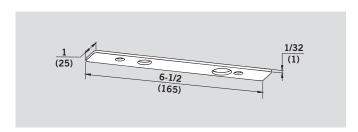
PT 21 frame hung portion

top center hung with removable pin Ø 19/32" (15)

Ref. No. 901.117

Weight in lb (kg)

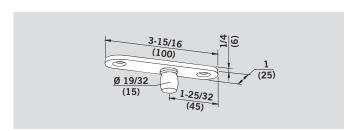
0.737 (0.335)



PT 21 cover plate

Ø 19/32 (15)

Ref. No. 227.004



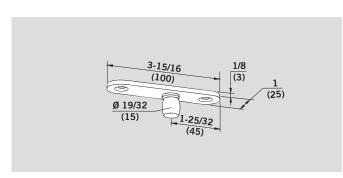
PT 24 pivot (325. 6-6)

Ø 19/32 (15) with mounting plate, material thickness 1/4" (6 mm)

countersink base plate in ceiling Ref. No. 901.116

Weight in lb (kg)

Aluminum 0.128 (0.058)



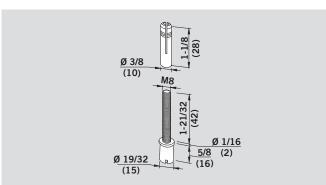
PT 24 pivot (325.6-3)

Ø 19/32 (15), with mounting plate, material thickness 1/8" (3) mm, to screw **on the ceiling**

Ref. No. 901.923

Weight in lb (kg)

Aluminum 0.092 (0.042) Brass 0.171 (0.078) Stainless steel 0.163 (0.074)



PT 25 pivot (325.3)

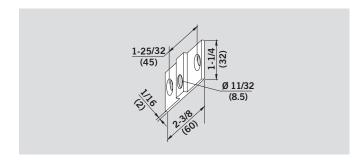
Ø 19/32 (15), with plug

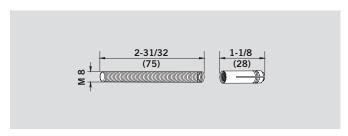
Ref. No. 901.115

Weight in Ib (kg)

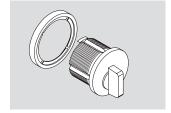
0.097 (0.044)

Fixing Plate, Threaded Rod & Cylinder

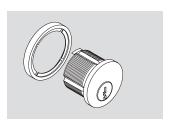




6-5/32 (156) 28/12-2 96)







Key Cylinder with blocking ring Ref. No. 225.997

Mounting plate

for transom patch PT 30

Ref. No.903.128

Weight in lb (kg)

Aluminum 0.035 (0.016) Brass 0.083 (0.038)

Stainless steel not available, satin chrome on brass supplied.

Threaded rod

M 8 with plug for transom patch

Ref. No. 901.134

Weight in lb (kg)

0.070 (0.032)

Patch Lock - AR20

- 3/8" (10) glass

Ref. No. 801.124

- 1/2" (12) glass

Ref. No. 801.122

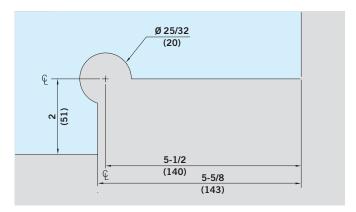
- 5/8" (15) glass

Ref. No. 801.126

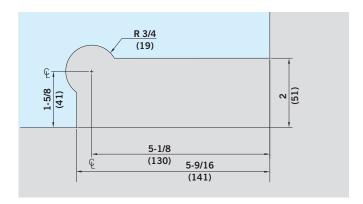
- 3/4" (19) glass

Ref. No. 801.125

Glass Preparation—Patch Lock

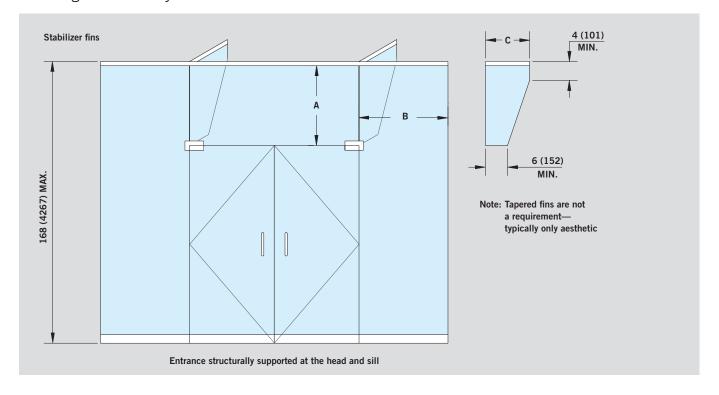


- 3/8" (10) glass Ref. No. 801.124 - 1/2" (12) glass Ref. No. 801.122



- 5/8" (15) glass
Ref. No. 801.126
- 3/4" (19) glass
Ref. No. 801.125

Fin Usage & Assembly



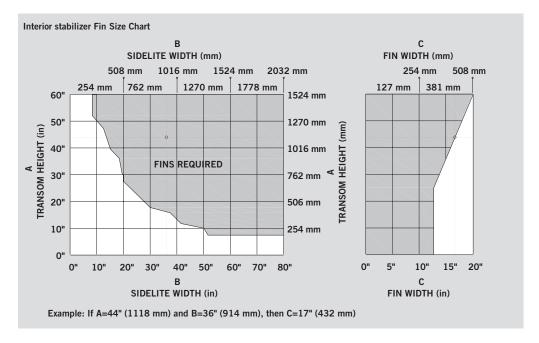
Risk of excessive deflection increases as the distance from the door's upper pivot to structure increases. To reduce deflection, glass fins mounted perpendicular to the glass wall should be employed. Refer to the graph below for fin usage recommendations.

NOTE: When fins are used, they must be mechanically fastened to adequate support. If transom weight exceeds 99 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 jobspecific 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

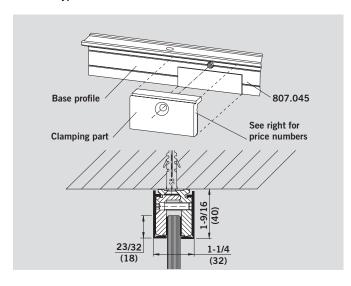
Consists of base section with bore holes every 11-13/16" (300), including clamping parts with screws and gasket strips.

Application

All around frame system for tempered glass assemblies, with fittings on sides and ceiling. The **safety type** prevents free hanging glass panels from falling down by mounting 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 = hex key size 4).

Standard type



Base profile standard type 157" (4000) stock length

Weight in lb/ft (kg/m)
Aluminum .805 (1.200)

for 3/8" (10) through 3/4" (19) glass thickness **Ref. No. 807.045**

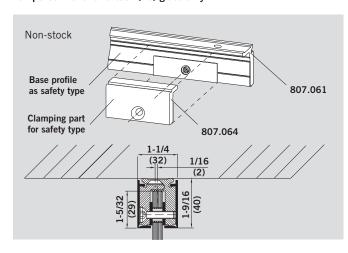
Clamping part standard type 2-3/8" (60) long with screw and gasket

Weight in Ib/ft (kg/m)

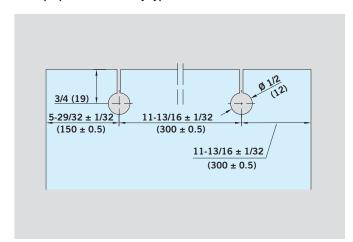
Aluminum 0.037 (0.055)

- 3/8" (10) glass **Ref. No. 807.004**
- 1/2" (12) glass
- Ref. No. 807.085
- 5/8" (15) glass
- Ref. No. 807.087
- 3/4" (19) glass **Ref. No. 807.089**

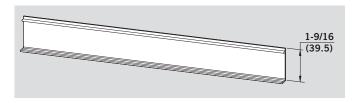
Tempered monolithic 3/8" (10) glass only



Glass preparation for safety type mechanical channel



Clip on cover, end caps & filler block

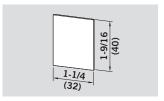


Clip on cover profile

157" (4000) stock length, brass, stainless steel, satin and stainless steel polished available **Ref. No. 807.003**

Weight in Ib/ft (kg/m)

Aluminum 0.137 (0.203) Brass 0.252 (0.373) Stainless Steel 0.252 (0.373)

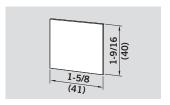


End cap for 3/8" (10) and 1/2" (12) glass thickness

Ref. 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) and 3/4" (19) glass thickness Ref. No. 807.065



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