



BEYOND

Technical Brochure

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BEYOND

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Systematic design

Safe, functional and extremely attractive, BEYOND, the unique system for glass doors without risk of pinched fingers with swing doors.

The development of BEYOND has been shaped by the search for a solution that combines a modern, attractive design with maximum safety and stability. In the swing-door system the pivot point is located directly at the glass edge, thus preventing the risk of trapped fingers often found at the secondary closing edges of glass swing.

BEYOND opens up a huge range of opportunities for incorporating frameless glass doors into tempered glass assemblies and wall openings. The BEYOND system offers an elegant, sophisticated solution for swing doors in all situations, whether private or public, modern or traditional.

Developed with the practical requirements of the market in mind, this product offers a sensible alternative wherever security, safety and functionality need to be complemented with an attractive design.



Safe and secure

The patented BEYOND swing door system with its pivot point located centrally in the glass axis and close to the glass edge ensures safety and security. The alternative options of elegant, continuous pivot rod or smart short rod make the system suitable for any room situation. And with a choice of pull handles or lock/lever handle combinations, BEYOND enables the realization of your design ideas.



The transom pivot fitting
– a slim connector.



An option for the bottom pivot point – short rod on a floor pivot.

If floor pivot bearings are being used, a separate lock or a tumbler is required.

Short pivot rod

The BEYOND swing door system with short pivot rod offers maximum flexibility. No matter what the door dimensions, BEYOND short fittings provide a versatile solution.

dormakaba floor pivots, or – particularly for double-action doors – dormakaba BTS floor closer, form the ideal base for ensuring that the door always returns safely and securely to its home position. Since with the BTS floor closer the position of the pivot point requires it to be buried under the adjacent wall, the use of a glass side panel is recommended in this case. The top connection depends on the type of unit. When incorporating the glass door into a tempered glass assembly, the top connection is formed by a transom pivot fitting; in the case of doors in wall openings, a top pivot bearing is fitted to the ceiling or in the lintel.

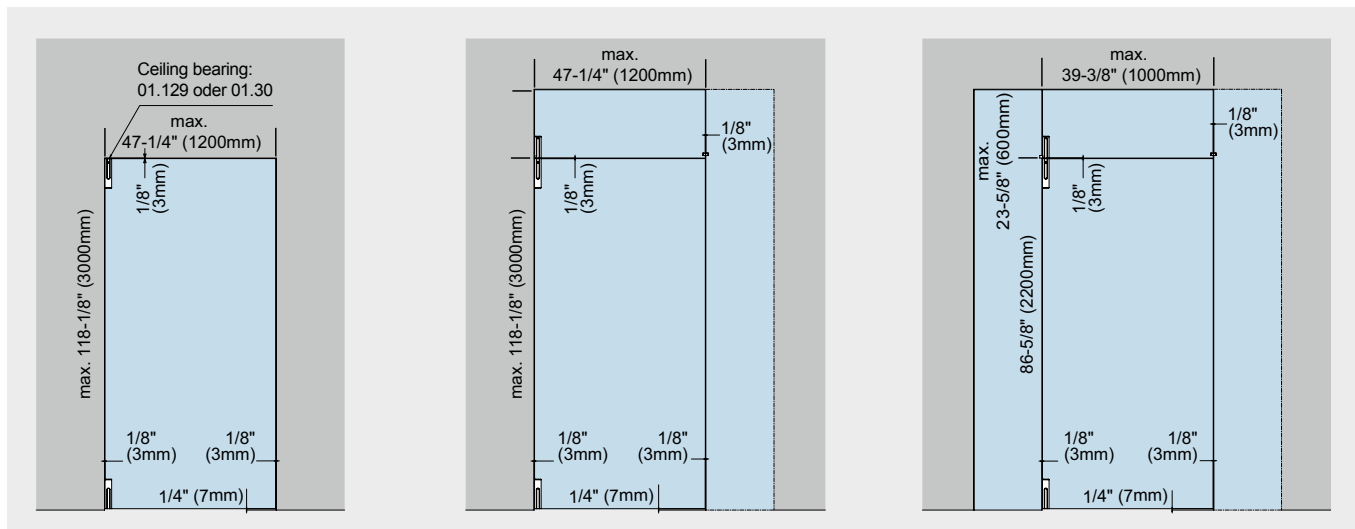
Load transfer from the transom and side panel can be effected by means of wall adapter profiles.

Depending on customer requirements, BEYOND offers suitable fittings for 3/8" (10mm) and 1/2" (12mm) glass. Finishes for fittings and accessories: aluminum EV1-Deco anodized (114) or similar satin stainless steel anodized (107).

For maximum values please see the typical assemblies.

Note:

Transom fitting wall connector max. 47-1/4" (1200mm) door width; transom fitting glass connector max. 39-3/8" (1000mm) door width.



Basic set for individual door.

For installation in masonry. Optionally with side panel on closing side.

Max door height 118-1/8" (3000mm)
Max door weight 176 lbs. (80 kg)

Basic set and transom fitting wall connector for door with transom.

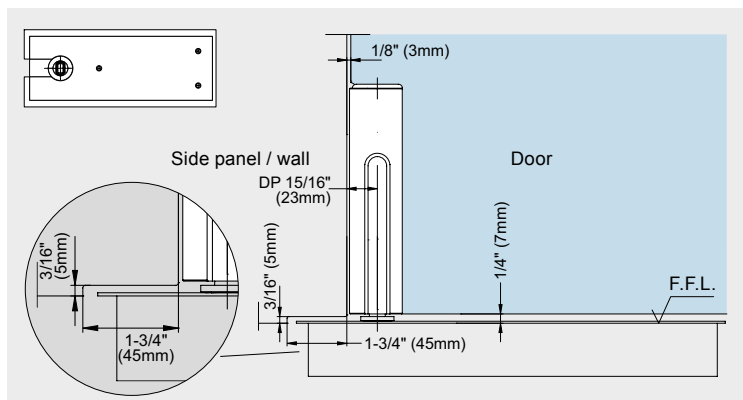
Optionally with side panel on closing side.

Max door height 118-1/8" (3000mm)
Max door weight 176 lbs. (80 kg)

Basic set and transom fitting wall connector for door with transom and side panel on pivot point side.

Optionally with side panel on closing side.



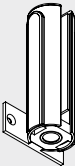
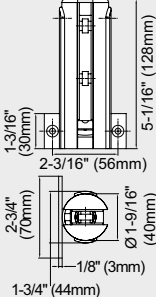
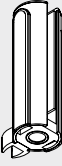
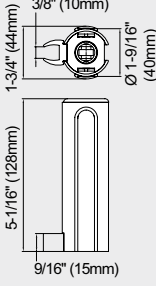

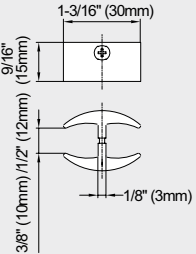
Max door height 86-5/8" (2200mm)
Max door weight 176 lbs. (80 kg)



Combination BEYOND and BTS

With the BTS concealed floor closer, the position of the pivot point means that the unit has to be buried under the adjacent wall, or that the glass side screen has to be appropriately machined (see adjacent detail). The height of the recess cut into the glass will need to be adapted to the installation situation and the means by which the side screen is fixed.

Fittings and glass connector

	Product description	Glass thickness	Art. No.
 	BEYOND basic set: Pivoting fitting set, short type, comprising <ul style="list-style-type: none"> • 1 top pivot fitting with pivot Ø 9/16" (15mm), • 1 bottom pivot fitting with insert for floor closer spindle (BTS 80) or round pivot 	3/8" (10mm)	30.100
		1/2" (12mm)	30.101
 	BEYOND transom fitting, wall connector, with plastic socket for top pivot	3/8" (10mm)	30.120
		1/2" (12mm)	30.121
 	BEYOND transom fitting, glass connector, with plastic socket for top pivot	3/8" (10mm)	30.130
		1/2" (12mm)	30.131
 	BEYOND glass connector, plastic, black, for connection of side panel at closing side	3/8" (10mm) and 1/2" (12mm)	30.320

Continuous pivot rod

The BEYOND swing door system with continuous rod offers complete freedom from the risk of trapped fingers. By locating the pivot point of the swing door right at the glass edge and providing a round profile, the pinching hazard is reduced to zero.

For the floor mounting of single-action, and particularly double-action doors, the dormakaba BTS floor closer offers a convenient alternative to the dormakaba floor pivot. Since with the BTS floor closer the position of the pivot point requires it to be buried under the adjacent wall, the use of a glass side panel is recommended in this case. As with the short-rod model, the top connection depends on the type of unit. Tempered glass assemblies are fitted with an transom pivot fitting, whereas with doors in wall openings a top pivot bearing with ceiling fixing is used. Load transfer from the transom and side panel can be effected by means of wall adapter profiles.

In the case of heights over 86-5/8" (2200mm), an anti-vibration device located midway along the pivot rod ensures quiet door operation.

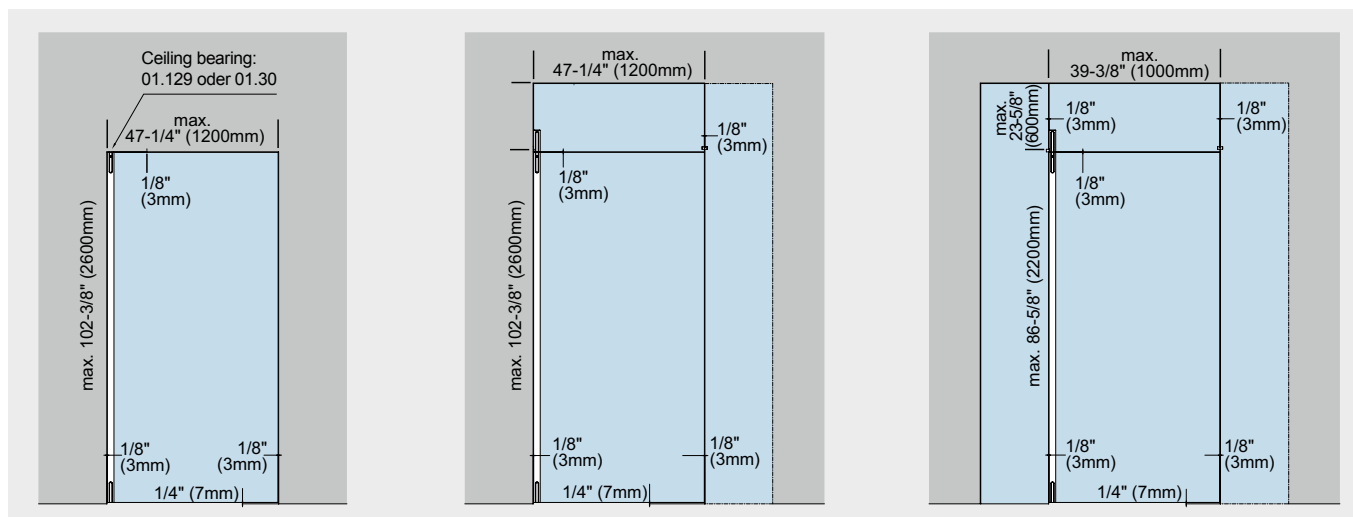
Depending on customer requirements, BEYOND offers suitable fittings for 3/8" (10mm) and 1/2" (12mm) glass.

Finishes for fittings and accessories: aluminum EV1-Deco anodized (compatible with finish 150) (114) or similar satin stainless steel anodized (107).

For maximum values please see the typical assemblies.

Note:

Transom fitting wall connector max. 47-1/4" (1200mm) door width; transom fitting glass connector max. 39-3/8" (1000mm) door width.



Basic fitting for individual door.

For installation in masonry.

Max door height 102-3/8" (2600mm) Max. door weight 176 lbs. (80 kg)

Basic fitting and transom fitting wall connector for door with transom.

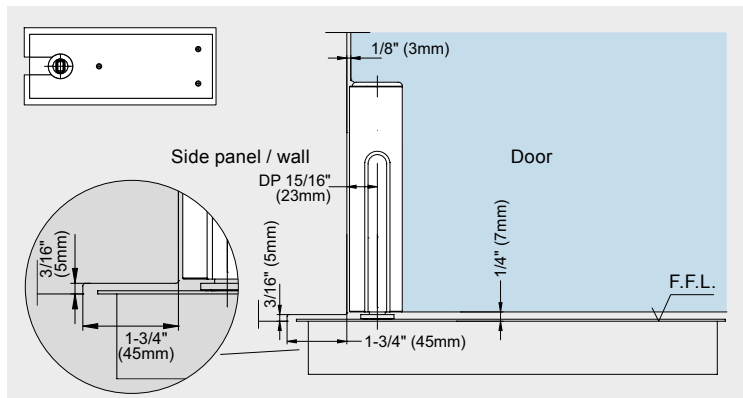
Optionally with side panel on closing side.

Max door height 102-3/8" (2600mm) Max. door weight 176 lbs. (80 kg)

Basic fitting and transom fitting wall connector for door with transom and side panel on pivot point side.

Optionally with side panel on closing side.

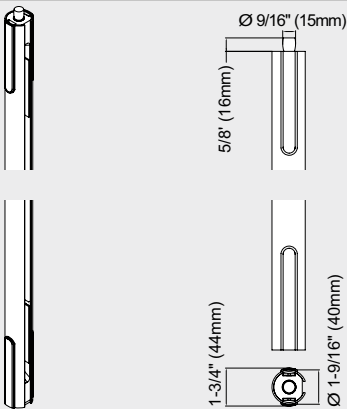
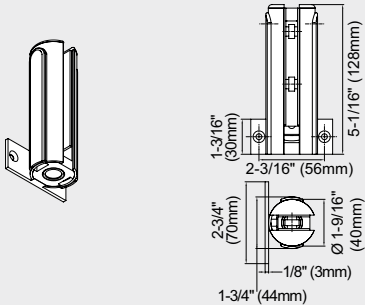
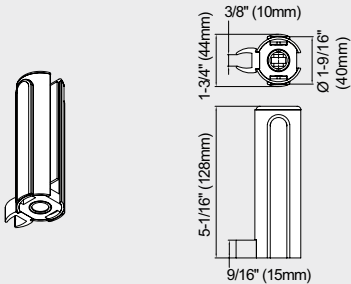
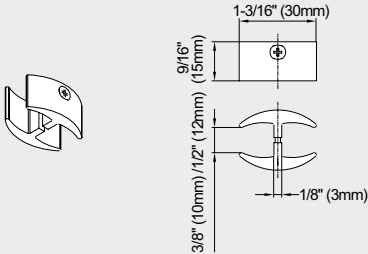
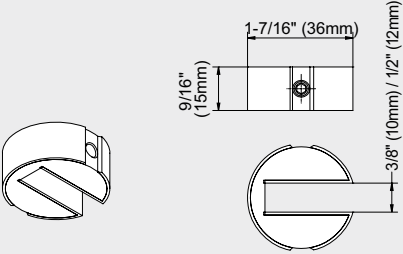
Max door height 86-5/8" (2200mm) Max. door weight 176 lbs. (80 kg)



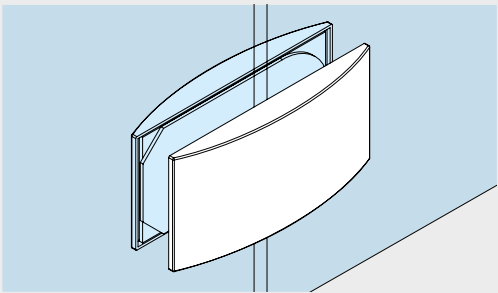
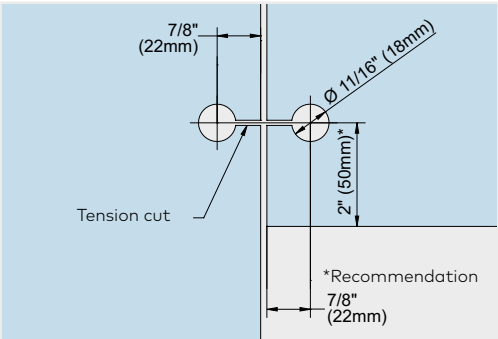
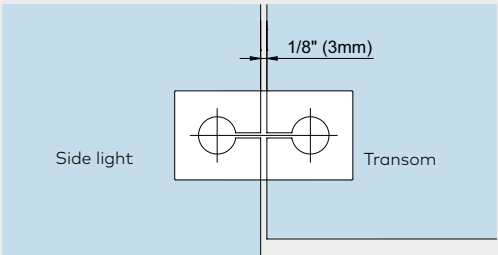
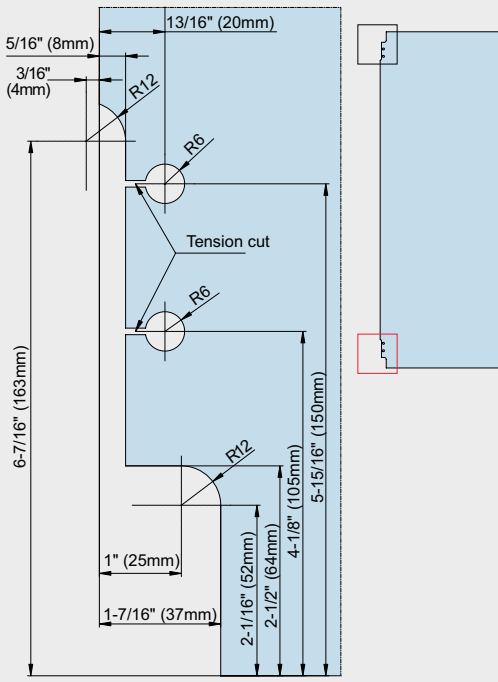
Combination BEYOND and BTS

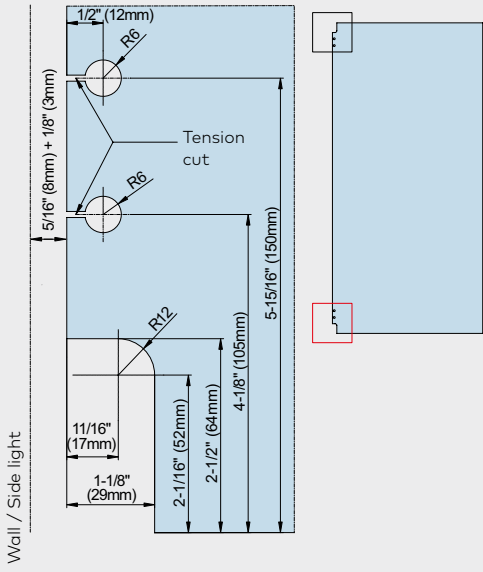
With the BTS closer, the position of the pivot point means that the unit has to be buried under the adjacent wall, or that the glass side screen has to be appropriately machined (see adjacent detail). The height of the recess cut into the glass will need to be adapted to the installation situation and the means by which the side screen is fixed.

Fittings and glass connector

	Product description	Glass thickness	Art. No.
	BEYOND basic fitting: Pivoting fitting, long type, with pivot Ø 9/16" (15mm) at top and insert for floor spring spindle (90° turnable, e. g. BTS 80) or round pivot at bottom Please indicate exact door height = glass measurement with order.	3/8" (10mm)	30.110
		1/2" (12mm)	30.111
	BEYOND overpanel fitting, wall connector, with plastic socket for top pivot	3/8" (10mm) 1/2" (12mm)	30.120 30.121
	BEYOND overpanel fitting, glass connector, with plastic socket for top pivot	3/8" (10mm) 1/2" (12mm)	30.130 30.131
	BEYOND glass connector, plastic, black, for connection of side panel at closing side	3/8" (10mm) and 1/2" (12mm)	30.320
	BEYOND anti-vibration device for pivot fitting, long	3/8" (10mm) 1/2" (12mm)	30.034 30.035

Glass preparation

	Product description	Art. No.
	Transom-sidelight connector Weight in lb. Aluminum .321 (.146 kg)	12.536
		
		
	Pivoting fitting set, short type Drawing shows the bottom glass penetration. Top edge of glass is prepared accordingly.	30.100 30.101

Product description		Art. No.
	Pivoting fitting, long type Drawing shows the bottom glass penetration. Top edge of glass is prepared accordingly.	30.110 30.111
	Transom fitting Wall connector and glass connector	30.120 30.121 30.130 30.131



Accessories

Content

Accessories

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15	Floor closers, lock keeper plate, floor sockets
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Perfection in detail

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

They ideally complement the range of dormakaba hardware to optimize the technical excellence and cost effectiveness of tempered glass systems of all types.

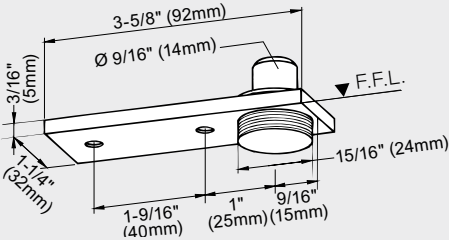
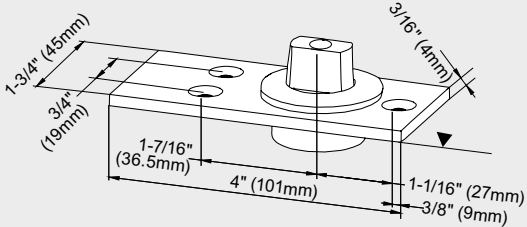
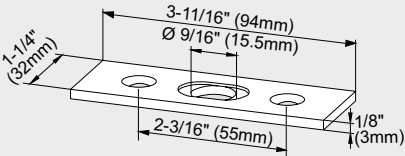
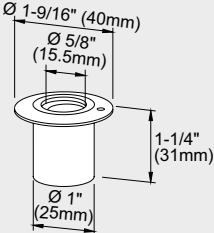
Aside from functional components such as special floor pivots – including models for wet rooms – dormakaba also offers a choice of security-relevant options. Their installation further enhances the exceptional functional efficiency, reliability and long service life expected of dormakaba systems.

Top bearing, pivots for UNIVERSAL, BEYOND, EA, TP/TA, MANET

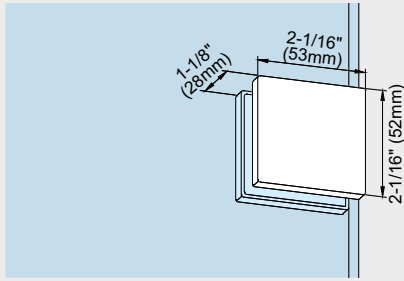
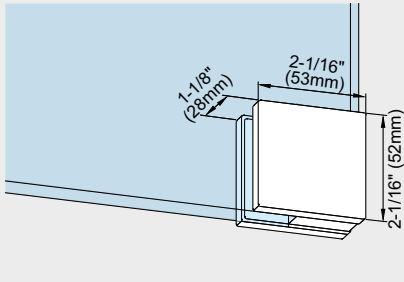
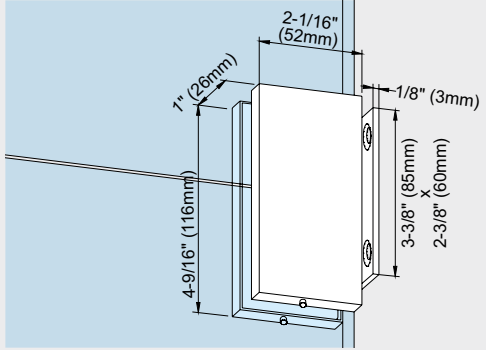
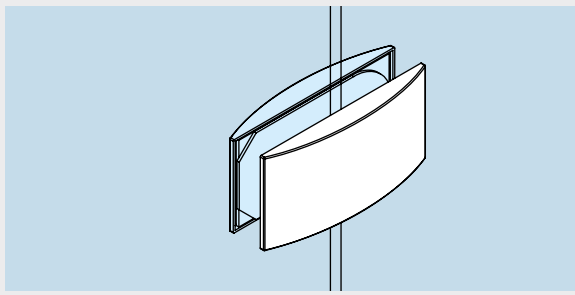
Advisory: Please note that the upper pivots for UNIVERSAL and those for MUNDUS are not mutually compatible. The spigot diameters of the MUNDUS fittings vary.

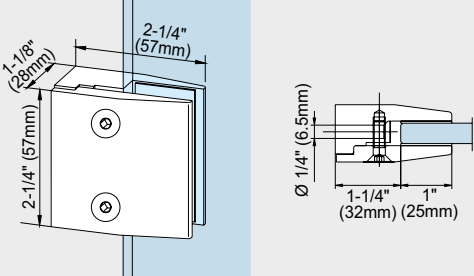
	Product description	Art. No.
	PT 21 frame portion top center with removable pin Weight in lb. .739 (.335 kg) 9/16" (15mm) Ø	01.117
	PT 24 pivot with fixing plate, material thickness 1/4" (6mm), to let into ceiling Weight in lb. .128 (.058 kg) 9/16" (15mm) Ø	01.116
	PT 24 pivot with fixing plate, material thickness 3 mm, to screw on the ceiling Weight in lb. .093 (.042 kg) Aluminum .163 (.074 kg) Stainless steel 9/16" (15mm) Ø	01.123
	PT 25 pivot with plug Weight in lb. .097 (.044 kg) 9/16" (15mm) Ø	01.115

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

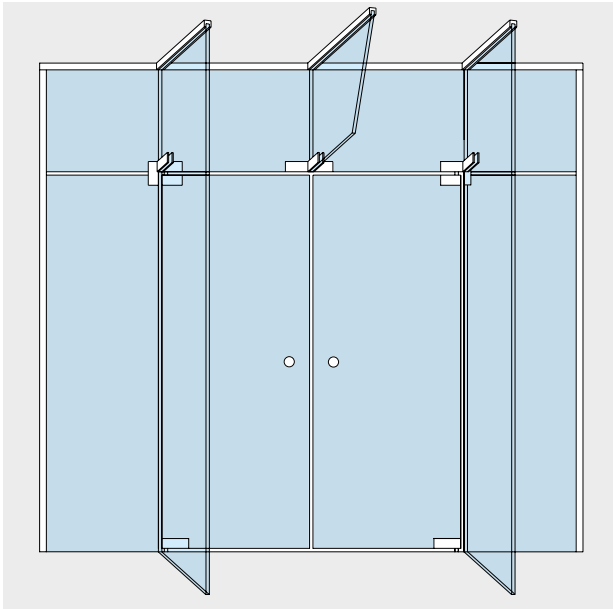
	Product description	Art. No.
	Floor pivot bearing with round pivot 9/16" (14mm) Ø, and cover plate; height adjustable by 3/16" (5mm) max. door weight 220 lb. (100 kg) Weight in lb. Aluminum .342 (.155 kg) Brass .345 (.170 kg) Stainless steel .372 (.169 kg)	01.106
	Floor bearing with profile spindle (longer spindle on request), max. door weight 440 lb. (200 kg) Stainless steel, max. door weight 440 lb. (200 kg) Weight in lb. .56 (.254 kg)	04.602 04.603
	Lock keeper plate, stainless steel, two parts, adjustable ± 3/16" (5mm) Weight in lb. .106 (.048 kg)	05.190
	Eccentric socket, eccentric, zinc coated brass, with adjustable plastic socket insert Weight in lb. .044 (.020 kg)	05.194

Clamping fittings

	Product description	Art. No.
	PT 90 Srew on fitting Weight in lb. Aluminum .265 (.120 kg) Brass .352 (.160 kg) Stainless steel .342 (.155 kg)	07.021
	PT 91 corner fitting Weight in lb. Aluminum .265 (.120 kg) Brass .352 (.160 kg) Stainless steel .342 (.155 kg)	07.023
	Side connector with fixing plate Weight in lb. Aluminum .690 (.313 kg) Stainless steel .829 (.376 kg) Also suitable for 1/2" (12mm) glass thickness	01.153
	Overpanel-sidelight connector Weight in lb. Aluminum .322 (.146 kg)	12.536

	Product description	Glass thickness	Art. No.
	Clamping fitting, aluminum, with passage hole for M 6 thread	3/8" (10mm)	07.038
		1/2" (12mm)	07.039
	Weight in lb. Aluminum		.397 (.180 kg)

Usage and assembly of fins



Fin fittings and corner connectors do not have a supporting structure. Overpanels, side-lights and fins have to be fixed securely to the ceiling by dormakaba wall connecting profiles or similar systems.

The need for stiffeners and the requisite glass thickness must be specified by a properly qualified structural engineer.

Pull handles, door knobs and recessed pull grip

The pull handle/knob system is designed for glass of 5/16" (8mm), 3/8" (10mm) and 1/2" (12mm) thickness.

The pull handles can be fixed to both sliding and pivoting (swing) doors on one face using the appropriate connectors or on both faces by through-bolting (back-to-back arrangement).

Due to a flat structure recessed pull grips are also suitable for sliding doors.

The single-point fixings and through bolts are included as standard equipment in the scope of supply.

The pull handles can be fitted horizontally, vertically or in a handrail arrangement.



Pull handle pairs

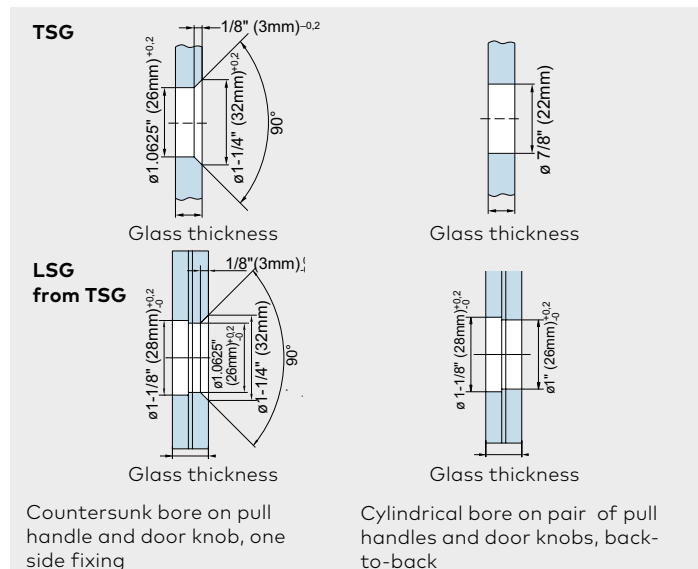
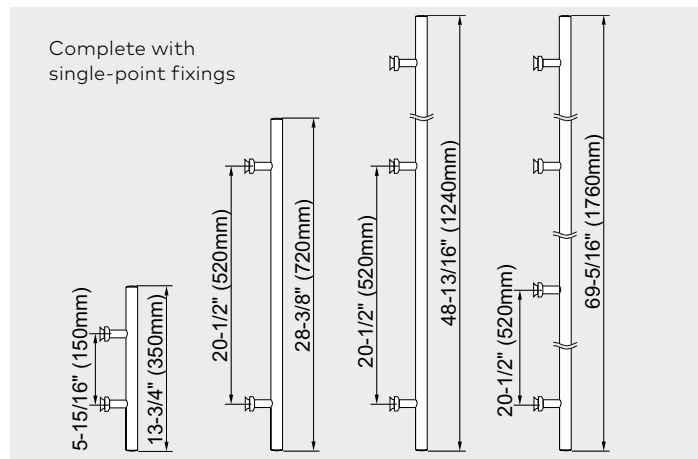
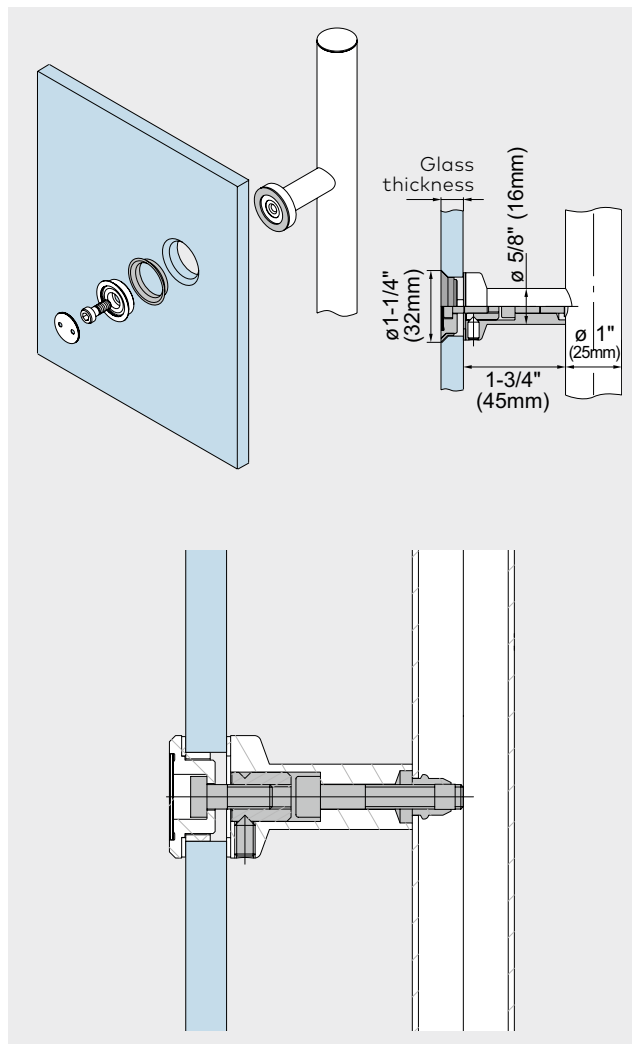
	Product description	Glass thickness	Art. No.
	Pair of handle bars satin stainless steel length 13-3/4" (350mm), 2 fixing points, weight in lb. 2.764 (1.254 kg) material 304 Stainless Steel do., material 316 Stainless Steel	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.267* 21.247
	Pair of handle bars aluminum length 13-3/4" (350mm), 2 fixing points, weight in lb. aluminum 2.923 (1.326 kg)	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	03.400
	Pair of handle bars satin stainless steel length 28-3/8" (720mm), 2 fixing points, weight in lb. 4.292 (1.947 kg) material 304 Stainless Steel do., material 316 Stainless Steel	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.270* 21.250
	Pair of handle bars aluminum length 28-3/8" (720mm), 2 fixing points, weight in lb. aluminum 5.432 (2.423 kg)	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	03.402
	Pair of handle bars satin stainless steel length 48-13/16" (1240mm), 3 fixing points, weight in lb. 7.500 (3.400 kg) material 304 Stainless Steel do., material 316 Stainless Steel	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.273* 21.253
	Pair of handle bars satin stainless steel length 69-5/16" (1760mm), 4 fixing points, weight in lb. 11.023 (5.000 kg) material 304 Stainless Steel do., material 316 Stainless Steel	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.276* 21.256

Pull handles single

Product description

Glass thickness Art. No.

	Pull handles with single-point fixings, countersunk Edelstahl	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	
	Pull handle 13-3/4" (350mm) with 2 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.268
	Pull handle 28-3/8" (720mm) with 2 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.269
	Pull handle 48-13/16" (1240mm) with 3 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.271
	Pull handle 48-13/16" (1240mm) with 3 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.272
	Pull handle 69-5/16" (1760mm) with 4 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.274
	Pull handle 13-3/4" (350mm) with 2 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.275
	Pull handle 28-3/8" (720mm) with 2 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.277
	Pull handle 48-13/16" (1240mm) with 3 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		29.278
	Pull handle 13-3/4" (350mm) with 2 fixings, material 304 Stainless Steel	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.240
	Pull handle 28-3/8" (720mm) with 2 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		21.241
	Pull handle 48-13/16" (1240mm) with 3 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		21.281
	Pull handle 48-13/16" (1240mm) with 3 fixings, material 304 Stainless Steel		21.242
	Pull handle 69-5/16" (1760mm) with 4 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		21.243
	Pull handle 69-5/16" (1760mm) with 4 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		21.283
	Pull handle 69-5/16" (1760mm) with 4 fixings, material 304 Stainless Steel do., material 316 Stainless Steel		21.283

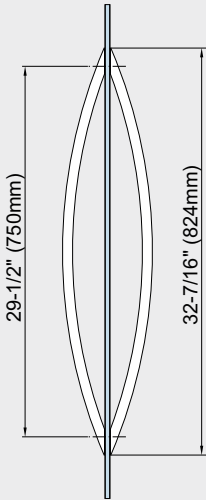


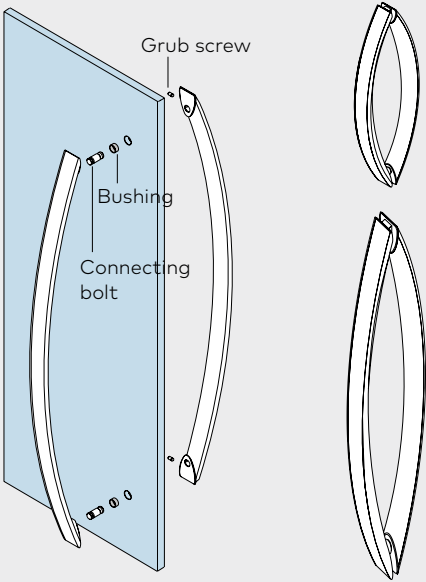
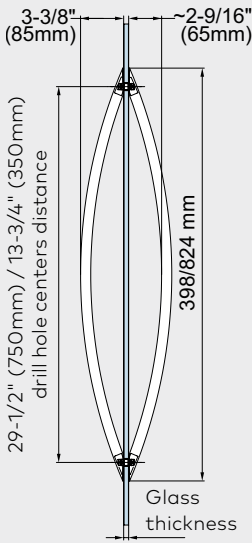
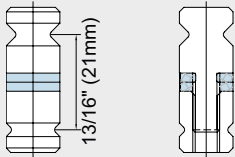
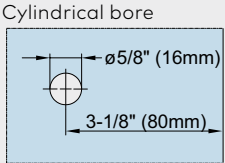
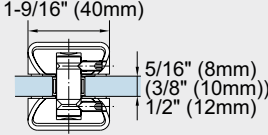
Spacing adjustment for pull handles and door knobs

	Product description	Door thickness	Art. No.
<p>Distance washer 1/16" (2mm)</p>	Conversion set 1 for glass doors, pair of pull handles / knob back-to-back	1/2" (13.5mm) – 7/8" (21.5mm)	21.285
	without distance washer with 1 distance washer with 2 distance washers with 3 distance washers with 4 distance washers	1/2" (13.5mm) 9/16" (15mm) 11/16" (17.5mm) 3/4" (19mm) 7/8" (21.5mm)	
<p>Distance washer 3/16" (5mm)</p>	Conversion set 2 for wood doors, pair of pull handles / knob back-to-back	13/16" (20mm) – 1-9/16" (40mm)	21.286
	without distance washer with 1 distance washer with 2 distance washers with 3 distance washers with 4 distance washers	13/16" (20mm) 1" (25mm) 1-3/16" (30mm) 1-3/8" (35mm) 1-9/16" (40mm)	
<p>Set 3 Set 4</p>	Conversion set 3 for glass / wood doors*, pair of pull handles / knob back-to-back, countersunk 9/16" (15mm) - 1-9/16" (40mm) glass / wood thickness		21.287
	Conversion set 4 for glass / wood doors*, pair of pull handles / knob back-to-back, clamping disc 9/16" (15mm) - 1-9/16" (40mm) glass / wood thickness		21.288
<p>Set 5 Set 6</p>	Conversion set 5 for glass doors*, recessed pull grip 1/2" (13.5mm) - 7/8" (21.5mm) glass thickness		21.295
	Conversion set 6 for wood doors*, recessed pull grip 13/16" (20mm) - 1-9/16" (40mm) wood thickness		21.296
<p>Set 7 Set 8</p>	Conversion set 7 for glass / wood doors*, for pull handles fixed on both sides to pull handle fixed on one side, countersunk 5/16" (8mm) - 1-9/16" (40mm) glass / wood thickness 1 set per pull handle fixing		21.297
	Conversion set 8 for glass / wood doors*, for pull handles fixed on both sides to pull handle fixed on one side, clamping disc 5/16" (8mm) - 1-9/16" (40mm) glass / wood thickness 1 set per pull handle fixing		21.298

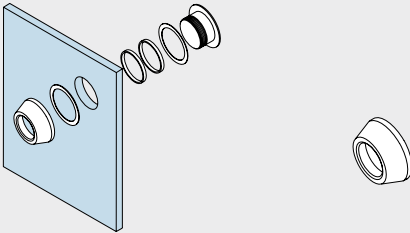
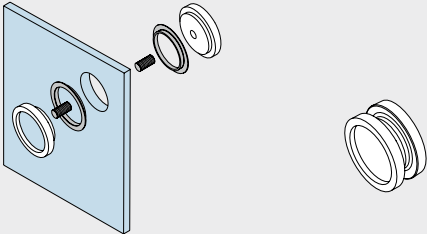
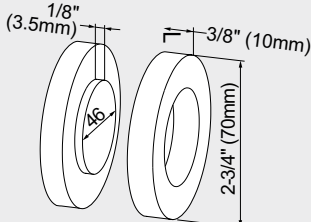
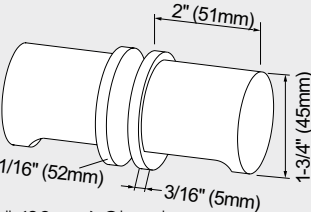
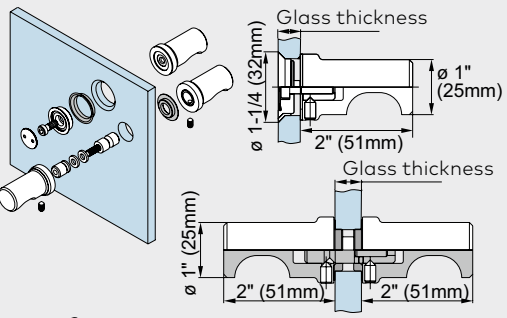
*Not suitable for Arcos pull handles 26.500 / 26.510

Arcos pull handle

	Product description	Glass thickness	Art. No.
	Arcos pair of pull handle incl. connecting bolt Aluminium, stainless steel look	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	
	Pull handle 13-3/4" (350mm) with 2 fixings		26.500
	Pull handle 29-1/2" (750mm) with 2 fixings		26.510

Recessed pull grips and door knobs

	Product description	Glass thickness	Art. No.
 <p>Ø 1-1/2" (38mm) Glass bore</p>	Recessed pull grip Ø 2" (50mm)	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.290
 <p>Ø 2" (50mm) Glass bore</p>	Recessed pull grip Ø 2-3/8" (60mm) Recessed pull grip with grip hole Ø 2-3/8" (60mm)	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm) 5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.291 21.292 21.293 21.294
 <p>Ø 2" (50mm) Glass bore</p>	Recessed pull grip aluminum to be glued onto the glass Weight in lb. .159 (.072 kg)		07.200
 <p>Ø 13/16" (20mm) Glass bore</p>	Door knob, aluminum Weight in lb. .882 (.400 kg)		07.201
 <p>Single-point fixing clamping disc (Ø 7/8" (22mm))</p>	Door knob one side fixing Door knob with single-point fixing, countersunk Door knob with single-point fixings, clamping disc	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.422 21.426
	Door knob back-to-back	5/16" (8mm)/ 3/8" (10mm)/ 1/2" (12mm)	21.423

Note: To ensure better load transmission, please use a pull handle in conjunction with the DORMOTION damping unit.

Safety-related information

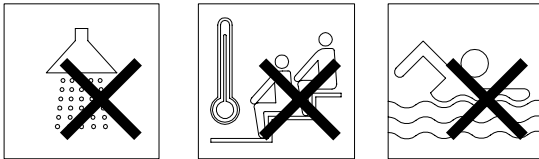
Important safety-related information for the mounting and use of dormakaba glass fittings.

(Follow these instructions in addition to the mounting and operating instructions in order to avoid damage of product and damage to person or property.)

Important: All users have to be informed about relevant points mentioned in these safety-related information and the mounting and operating instructions!

General information

1. dormakaba recommends the use of heat-soaked thermally tempered safety glass.
2. dormakaba glass fittings are not suitable for outdoor installation.
3. dormakaba glass fittings are not suitable for rooms where chemicals (e.g. chlorine) are used, e.g. swimming pools, saunas and brine baths.



4. Sliding panels must not be moved faster than at walking speed and must be stopped by hand before reaching the end position.
5. Pivoting panels must not be thrown too hard. If there is a risk of over-turning, this must be prevented by a door stop.

Mounting

1. Only properly qualified and specially trained staff is authorized to mount dormakaba glass fittings.
2. Never use glass with conchoidal fractures and/or damaged edges.
3. Due to crushing hazards – among others in the area of the secondary closing edge – and possible injury caused by breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) is required.
4. Clean clamping area with alcohol-based (standard commercial cleaning agent) before mounting the glass fitting.
5. Never use clamping shoes on structured glass surfaces (except on satined glass) or glass of heavily varying thickness unless with a corresponding levelling layer.
6. Never use clamping shoes on self-cleaning coatings.
7. When adjusting glass elements, always stick to the required clearance for the respective fitting. Adjust clearance so that the glass does not touch hard components such as glass, metal or concrete.
8. Make sure not to use excessive force when installing the glass (avoid local stress resulting from very tight screws).

Maintenance

Check fittings at regular intervals for proper positioning and smooth running and door for correct adjustment. Especially highly-frequented door systems require inspection by properly qualified staff (specialized companies or installation firms). Immediately replace damaged glass elements (no glass flaking and/or conchoidal fractures)!

General care instructions

The surface finishes of the fittings are not maintenance-free and should be cleaned according to their material and design.

- For metallic surfaces (anodized finishes, stainless steel) please use appropriate cleaning agents without abrasive additives only.
- For varnished surfaces please use appropriate solvent-free cleaning agents only.
- Brass surfaces (without surface protection) have to be treated with an appropriate maintenance agent on occasion, to avoid tarnishing.

The printed colors indicating the surface finishes are not 100 % true, but do provide a useful guide. Statements made with regard to the nature or use of the products are for the purposes of descriptions. Assent with regard to the existence of particular properties or particular uses always requires special written agreement. Pictures may show special designs which are different to the standard scope of delivery.

Subject to change without notice.



**Door
Hardware**



**Electronic
Access & Data**



**Mechanical
Key Systems**



Lodging Systems



**Entrance
Systems**



**Interior Glass
Systems**



Safe Locks



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