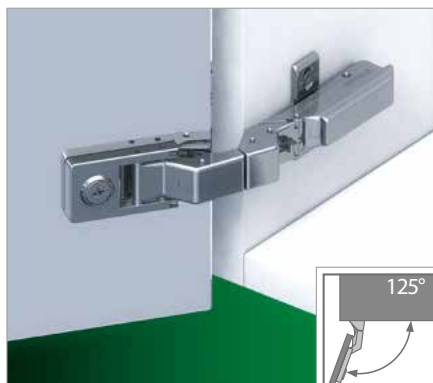


TIOMOS MIRRO

125° mirror hinge



- 125° opening angle
- Fastening through door-side gluing of a stainless steel adapter
- Connection of the hinge to the adapter using a cam
- Quick final assembly without glass drilling
- 3-dimensional adjustment with appropriate mounting plate
- High overlay up to 19 mm

Available in 3 versions:

- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION

Door overlay	Cranking	Damper		without spring	Art.-no.		
		with	without		Click-on For screw fixing		
	14	■	-	-	F029 140325		
		-	■	-	F047 140326		
		-	■	■	F049 140327		

Cup material: Zamak, nickel-plated/arm material: Zamak, nickel-plated

COVER CAPS

	Designation	Imprinted/Embossed	Art.-no.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	On request	F072 135500
	Hinge arm cover cap, right, steel, nickel-plated, GRASS imprint	GRASS logo	F072 135550
	Hinge arm cover cap, left, steel, nickel-plated, GRASS imprint		F072 135551
	Premium hinge arm cover cap with integrated clip protection, plastic, black, not imprinted	On request	F072 140504

ACCESSORIES

Designation	Art.-no.	Designation	Art.-no.
Tipmatic pin for wooden and aluminium frame doors	F069 135396	+5° wedge	F072 135757
85° opening angle reduction clip	F072 135871	-5° wedge	F072 135758
Stainless steel adapter Tiomos Mirro for mirrors	F069 073731		

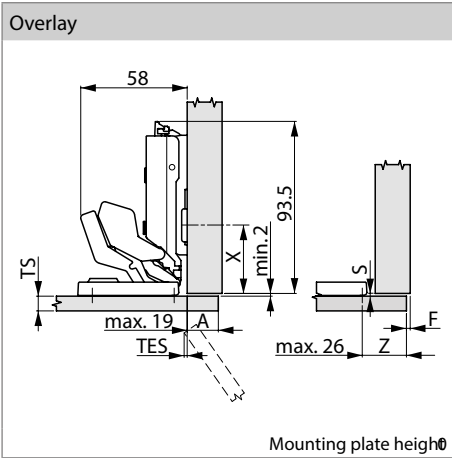
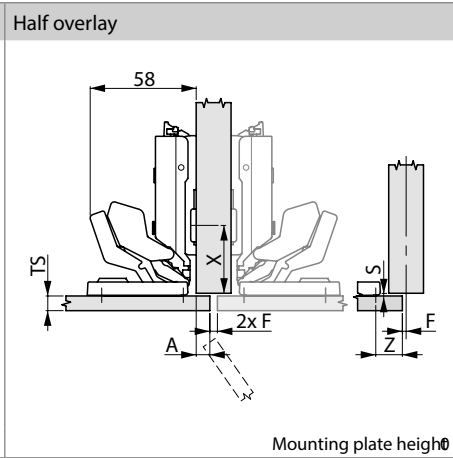
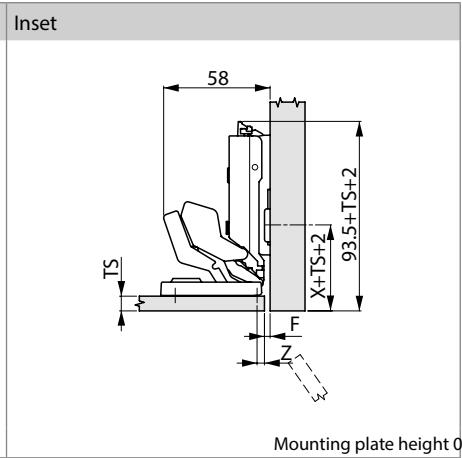
Tiomos mounting plates	102
Accessories	112

Tipmatic	302
Technical information	116

Assembly aids	354

INSTALLATION INFORMATION

All dimensions in millimetres

Overlay	Half overlay	Inset
 Mounting plate height 0	 Mounting plate height 0	 Mounting plate height 0

MINIMUM GAP/MINIMUM REVEAL

values for 0 mounting plate height

Gluing dimension (Z)	4	5	13	15	17	19	21	22	24	26
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19
min. reveal (F)/gap (S)	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2

ECO CROSS-MOUNTING PLATE

STAINLESS STEEL ADAPTER

Hole spacing

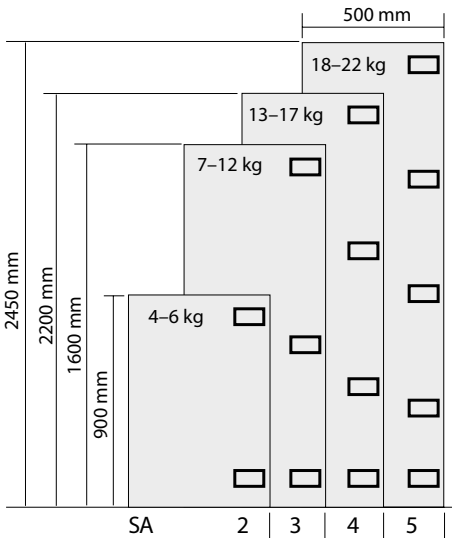
Technical drawing of the ECO Cross-mounting plate. It shows a central rectangular plate with four mounting holes. The distance between the centers of the two side holes is labeled 'X'. The distance between the center of the top hole and the top edge of the plate is labeled '28'.

Mounting plate height 0					
28	37				
37	46				
Mounting plate position (X)					

Technical drawing of the Stainless steel adapter. It shows a rectangular plate with a central rectangular cutout. The distance between the centers of the two side holes is labeled 'X'. The distance between the center of the top hole and the top edge of the plate is labeled '28'. The distance between the center of the top hole and the center of the bottom hole is labeled '47'. The distance between the center of the bottom hole and the bottom edge of the plate is labeled 'A'. The distance between the center of the top hole and the right edge of the plate is labeled 'Z (max. 26)'.

Mounting plate height 0					
Z	A+7				
A	max. 19				
Gluing dimension (Z)					

NUMBER OF HINGES



NOTES

Inserting of the door is achieved via a modified mounting plate attachment spacing (X) and a small gluing gap (Z).

- ① Attention: With mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage).

The inner door edge must not touch the rack upon opening.

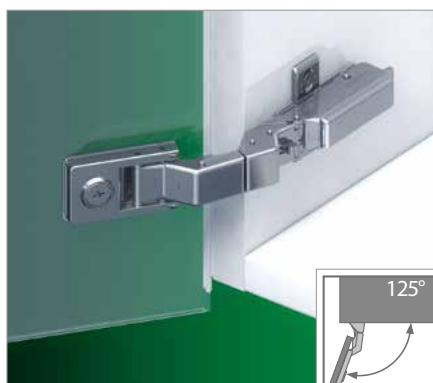
- ① Installation advice: Please contact your glass or door supplier in respect of glue selection and how to use the glue for fastening of the hinge retainer on mirror or glass doors.

- ① Liability claims: GRASS cannot accept any liability either for the glue used or the gluing process nor can it accept any responsibility for claims arising therefrom; we kindly ask for your understanding in this respect.

- ① Attention: Mirro hinges must not be used with cam mounting plates.

TIOMOS MIRRO

125° mirror/clear glass hinge



- 125° opening angle
- Fastening through door-side gluing of a Zamak adapter
- Connection of the hinge to the adapter using a cam
- Quick final assembly without glass drilling
- 3-dimensional adjustment with appropriate mounting plate
- High overlay up to 19 mm

Available in 3 versions:

- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION

Door overlay	Cranking	Damper		without spring	Art.-no.		
		with	without		Click-on For screw fixing		
	14	■	-	-	F029 140325		
		-	■	-	F047 140326		
		-	■	■	F049 140327		

Cup material: Zamak, nickel-plated/arm material: Zamak, nickel-plated

COVER CAPS

	Designation	Imprinted/Embossed	Art.-no.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	On request	F072 135500
	Hinge arm cover cap, right, steel, nickel-plated, GRASS imprint	GRASS logo	F072 135550
	Hinge arm cover cap, left, steel, nickel-plated, GRASS imprint		F072 135551
	Premium hinge arm cover cap with integrated clip protection, plastic, black, not imprinted	On request	F072 140504

ACCESSORIES

Designation	Art.-no.	Designation	Art.-no.
Tipmatic pin for wooden and aluminium frame doors	F069 135396	+5° wedge	F072 135757
85° opening angle reduction clip	F072 135871	-5° wedge	F072 135758
Zamak adapter, Tiomos Mirro for mirrors and clear glass	F072 135868		

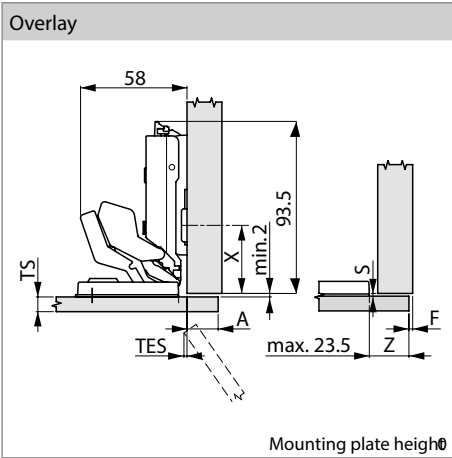
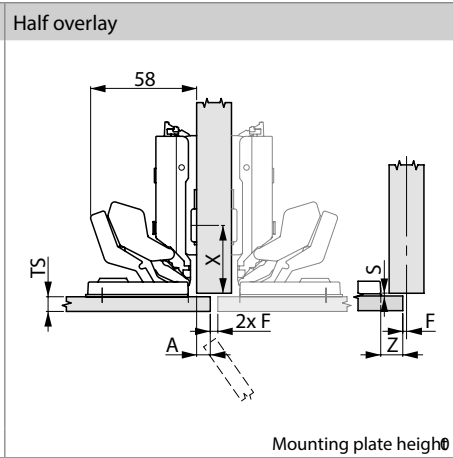
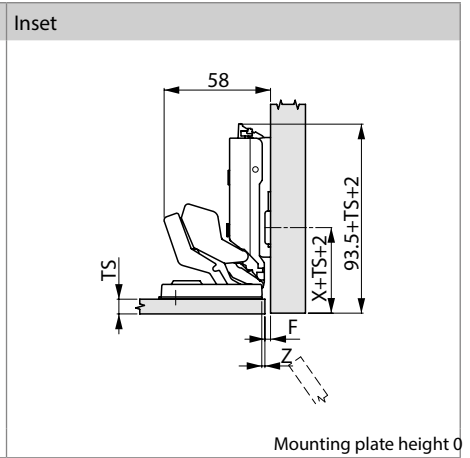
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INSTALLATION INFORMATION

All dimensions in millimetres

Overlay	Half overlay	Inset
 Mounting plate height 0	 Mounting plate height 0	 Mounting plate height 0

MINIMUM GAP/MINIMUM REVEAL

values for 0 mounting plate height

Gluing dimension (Z)	1.5	2.5	10.5	12.5	14.5	16.5	18.5	19.5	21.5	23.5
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19
min. reveal (F)/gap (S)	F S	F S	F S	F S	F S	F S	F S	F S	F S	F S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2

ECO CROSS-MOUNTING PLATE

ZAMAK ADAPTER

Hole spacing

Mounting plate height 0

28

37

37

46

Mounting plate position (X)

Mounting plate height 0

Z

A+4.5

A

max. 19

Gluing dimension (Z)

NUMBER OF HINGES

SA	2	3	4	5
2450 mm				
2200 mm				
1600 mm				
900 mm				
4-6 kg				
7-12 kg				
13-17 kg				
18-22 kg				

NOTES

Insetting of the door is achieved via a modified mounting plate attachment spacing (X) and a small gluing gap (Z).

- ① Attention: With mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage).

The inner door edge must not touch the rack upon opening.

- ① Installation advice: Please contact your glass or door supplier in respect of glue selection and how to use the glue for fastening of the hinge retainer on mirror or glass doors.

- ① Liability claims: GRASS cannot accept any liability either for the glue used or the gluing process nor can it accept any responsibility for claims arising therefrom; we kindly ask for your understanding in this respect.

- ① Attention: Mirro hinges must not be used with cam mounting plates.

TIOMOS MIRRO

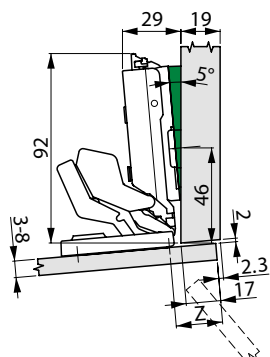
125° mirror/clear glass hinge

INSTALLATION INFORMATION

All dimensions in millimetres

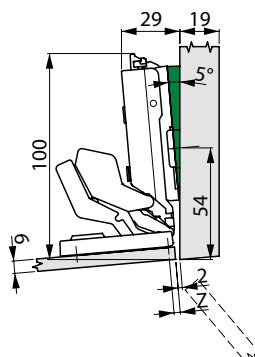
Angle applications

+5° WEDGE surface-mounted



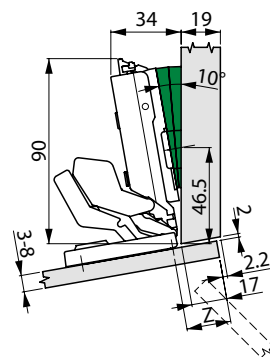
Adapter	Z	 min. 20
Stainless steel	22.5	
Zamak	20	
	Height	Art.-no.
ECO cross-mounting plate	0	F058 139721
+5° wedge	3	F072 135757

+5° WEDGE inset



Adapter	Z	 min. 20
Stainless steel	3	
Zamak	0.5	
	Height	Art.-no.
ECO cross-mounting plate	0	F058 139721
+5° wedge	3	F072 135757

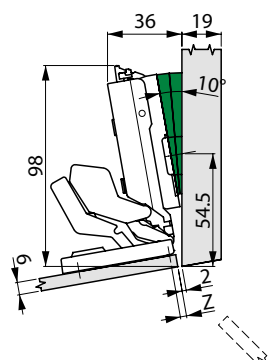
+10° WEDGE surface-mounted



Adapter	Z	 min. 25
Stainless steel	21.5	
Zamak	19	
	Height	Art.-no.
ECO cross-mounting plate	0	F058 139721
+5° wedge (2x)	3	F072 135757

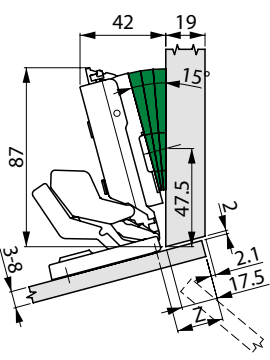
Angle applications

+10° WEDGE inset



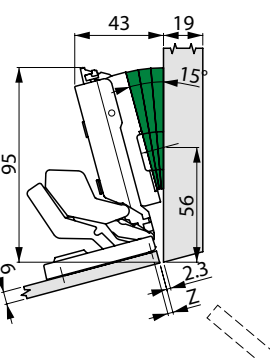
Adapter	Z	 min. 25
Stainless steel	3	
Zamak	0.5	
	Height	Art.-no.
ECO cross-mounting plate	0	F058 139721
+5° wedge (2x)	3	F072 135757

+15° WEDGE surface-mounted



Adapter	Z	 min. 30
Stainless steel	22.5	
Zamak	20	
	Height	Art.-no.
ECO cross-mounting plate	2	F058 139722
+5° wedge (3x)	3	F072 135757

+15° WEDGE inset



Adapter	Z	 min. 30
Stainless steel	2.5	
Zamak	0	
	Height	Art.-no.
ECO cross-mounting plate	3.5	F058 139724
+5° wedge (3x)	3	F072 135757

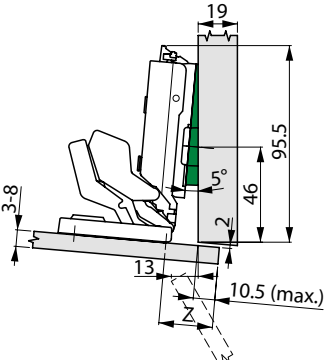
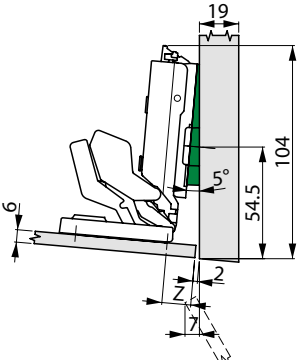
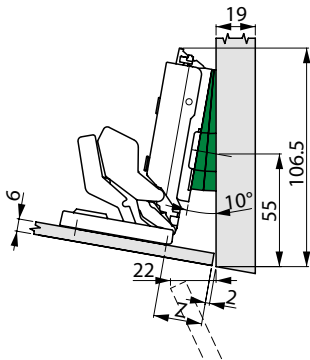
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Assembly aids	354
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INSTALLATION INFORMATION

All dimensions in millimetres

Angle applications								
-5° WEDGE surface-mounted			-5° WEDGE inset			-10° WEDGE inset		
								
Adapter	Z	 min. 20	Adapter	Z	 min. 20	Adapter	Z	 min. 25
Stainless steel	22.5		Stainless steel	14		Stainless steel	23.5	
Zamak	20		Zamak	11.5		Zamak	21	
	Height	Art.-no.		Height	Art.-no.		Height	Art.-no.
ECO cross-mounting plate	0	F058 139721	ECO cross-mounting plate	0	F058 139721	ECO cross-mounting plate	0	F058 139721
-5° wedge	3	F072 135758	-5° wedge	3	F072 135758	-5° wedge (2x)	3	F072 135758

NOTE

Trial fitting is recommended
for all door thicknesses.

LEGEND

Z Gluing position

Tiomas

Nexis

Special
hinges

Single-joint
hinges

Cabinet making
accessories