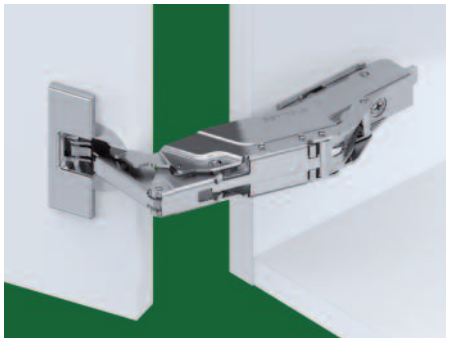
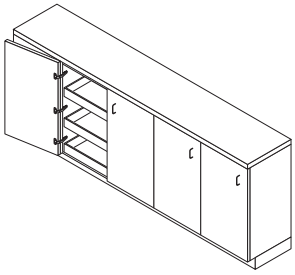
Tiomos 160

160° Wide angle hinge



- 3-dimensional adjustment with suitable base plate
- Accommodates overlays up to 25.4 mm (1”)
- Soft-close or Self-close hinges available
- For face frame or frameless cabinets
- Convenient depth adjustment with worm gear
- Zero protrusion when door is opened 90°
- 10mm cup depth
- For door thicknesses up to 32 mm (1 1/4”)
- Minimal reveal





Tiomos 160	Opening Angle 160°	Impresso	Screw-on	Dowelled

Full overlay	Cranking 00	Pattern	Type	Item No.
	Hinge cup: steel, nickel-plated Hinge arm: steel, nickel-plated	42 / 45	Soft-close	**F017**139**435**217
			Self-close	**F034**139**406**217

Pattern	Type	Item No.	Item No.	PU
45	Soft-close	**F028**138**561**217	**F028**138**564**217	50
	Self-close	**F045**138**499**217	**F045**138**502**217	50
42	Soft-close	-	**F028**138**382**217	50
	Self-close	-	**F045**138**320**217	50

Overlay	Cranking 03	Pattern	Type	Item No.
	Hinge cup: steel, nickel-plated Hinge arm: steel, nickel-plated	42 / 45	Soft-close	**F017**139**436**217
			Self-close	**F034**139**407**217

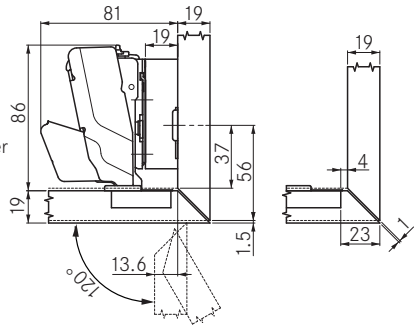
Pattern	Type	Item No.	Item No.	PU
45	Soft-close	**F028**138**562**217	**F028**138**565**217	50
	Self-close	**F045**138**500**217	**F045**138**503**217	50
42	Soft-close	-	**F028**138**383**217	50
	Self-close	-	**F045**138**321**217	50

Half overlay	Cranking 9.5	Pattern	Type	Item No.
	Hinge cup: steel, nickel-plated Hinge arm: zinc, nickel-plated	42 / 45	Soft-close	**F017**139**437**217
			Self-close	**F034**139**408**217

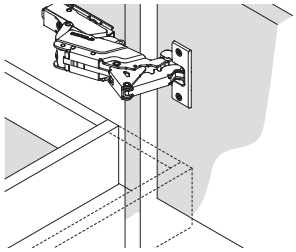
Pattern	Type	Item No.	Item No.	PU
45	Soft-close	**F028**138**563**217	**F028**138**566**217	50
	Self-close	**F045**138**501**217	**F045**138**504**217	50
42	Soft-close	-	**F028**138**384**217	50
	Self-close	-	**F045**138**322**217	50

Mitered corner application

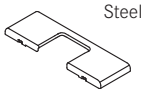
Use 120° opening angle reduction clip.
Prevents doors from bumping with the cabinet side in inset applications and mitered corner applications.

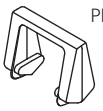


Zero door protrusion at 90°



Zero protrusion for application with inset drawers. With 00 cranking and 00 height of base plate the door is flush with the cabinet at 90°.

Hinge cup cover cap	Item No.	PU
 Steel, nickel-plated	**F072**135**503**228	150

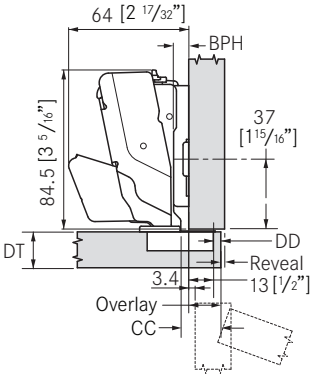
Angle reduction clip to 120°	Item No.	PU
 Plastic, black	**F072**135**753**117	50

Wood screw, nickel-plated	Item No.	PU
 #6 x 5/8” FHP, NI	**81001-43**	500

PU = packaging unit

Dimensions in millimeters, fractional inch equivalents as noted.

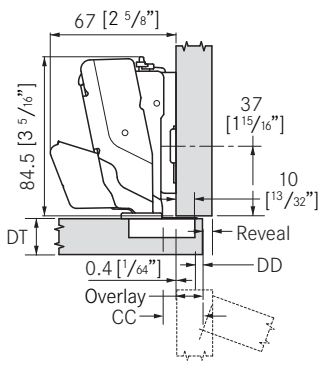
Full overlay



Drilling Distance (DD)

Door overlay	3	4	5	6	7	8	9	10
25.0								0
24.0							0	
23.0						0		2
22.0					0		2	3
21.0				0		2	3	
20.0			0		2	3		
19.0		0		2	3			
18.5					3.5			
18.0	0		2	3				
17.5				3.5				
17.0		2	3					
16.5			3.5					
16.0	2	3						
15.5		3.5						
15.0	3							
14.5	3.5							
	Base Plate Height (BPH)							

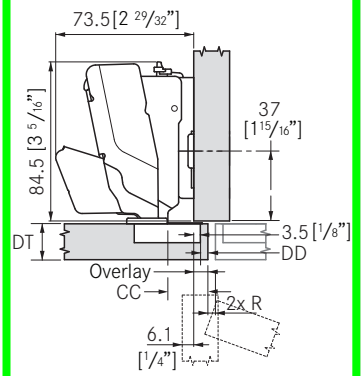
Overlay



Drilling Distance (DD)

Door overlay	3	4	5	6	7	8	9	10
22.0								0
21.0							0	
20.0						0		2
19.0					0		2	3
18.0				0		2	3	
17.0			0		2	3		
16.5						3.5		
16.0		0		2	3			
15.5					3.5			
15.0	0		2	3				
14.5				3.5				
14.0		2	3					
13.5			3.5					
13.0	2	3						
12.5		3.5						
12.0	3							
11.5	3.5							
	Base Plate Height (BPH)							

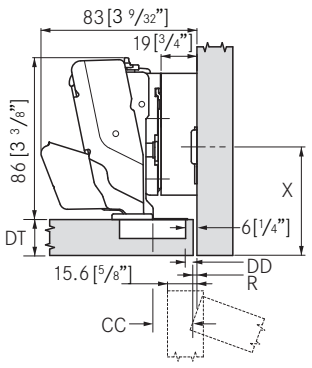
Half overlay



Drilling Distance (DD)

Door overlay	3	4	5	6	7	8	9	10
15.5								0
14.5							0	
13.5						0		2
12.5					0		2	3
11.5				0		2	3	
10.5			0		2	3		
10.0						3.5		
9.5		0		2	3			
9.0					3.5			
8.5	0		2	3				
8.0				3.5				
7.5		2	3					
7.0			3.5					
6.5	2	3						
6.0		3.5						
5.5	3							
5.0	3.5							
	Base Plate Height (BPH)							

Inset



Drawing shows Tiomos with a cranking 03 hinge, Base Plate Height (BPH) 19

X = 38.5 + DT

Ejemplo:
Si quiero que la puerta monte 10mm la única opción es barrenar a 8mm y usar placa 3.5

Reveal (R)								
	Base Plate Height (BPH)							

Minimum gaps

The minimum gap is the gap between the closed door and the front of the cabinet.

*only achievable with 120° angle reduction clip

Drilling Distance (DD)

Door Thickness	3	4	5	6	7	8	9	10
32.0	1.0	1.0						
31.0	1.0	1.0	1.0					
30.0	1.0	1.0	1.0					
29.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
28.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
26.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
25.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
22.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
				Minimum gap				

Reveal

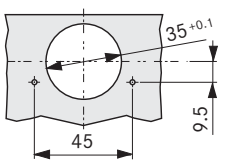
Reveal dimensions were determined with an edge radius (of the door) of 1mm! Hinge dimensions and reveal calculation based on factory setting.

IMPORTANT To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

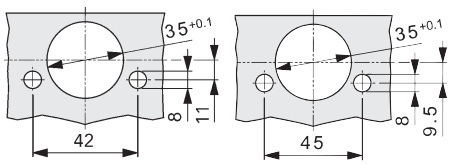
Drilling Distance (DD)

Door Thickness	3	4	5	6	7	8	9	10
32.0	0.2*	0.2*						
31.0	0.2*	0.2*	0.2*	0.2*				
30.0	0.2	0.2	0.2*	0.2*	0.2*			
29.0	0.2	0.2	0.2	0.2	0.2	0.2*	0.2*	
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				Reveal (R)				

Screw-on



Impresso and Dowelled



Cup dimensions