



HÄFELE

METALLA 310
SOFT CLOSE HINGES

Brought to you by Häfele



ENGINEERED
BY HÄFELE

METALLA 310

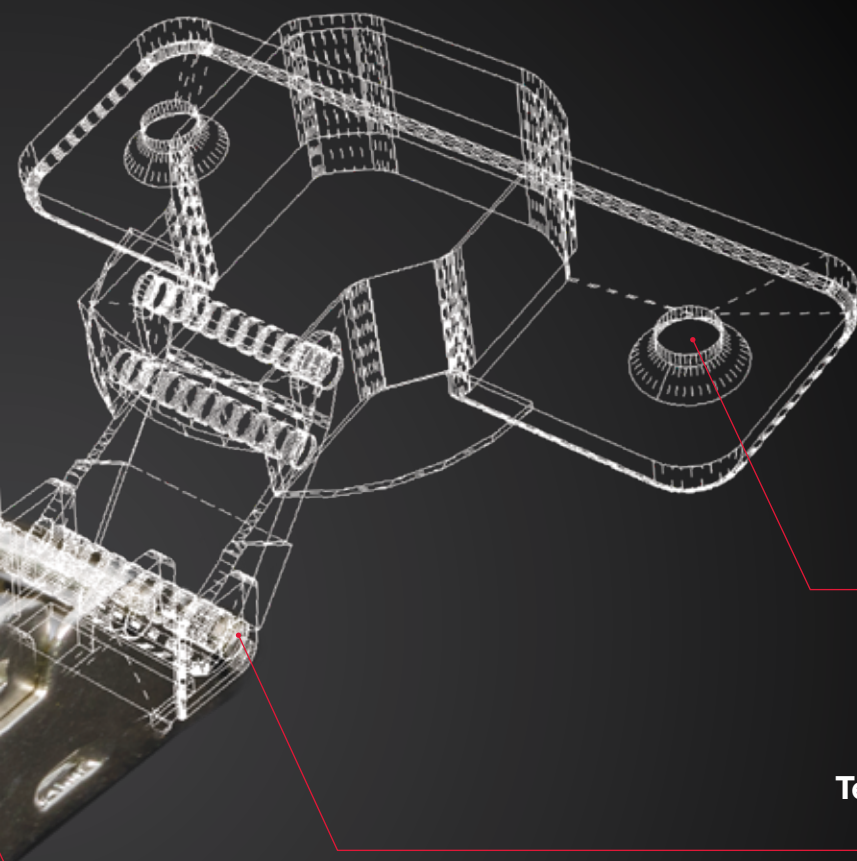
SOFT CLOSE HINGES

ENGINEERED
BY **HÄFELE**

Quick fixing system

Hinge quick release





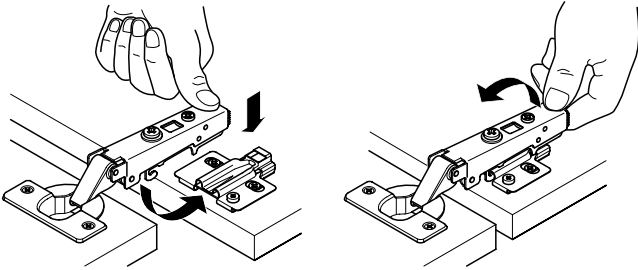
**Drilling patterns
45/9.5, 48/6 and 52/5.5**

**Tested quality and stability
(EN 15570 40,000 cycles)**

Integrated soft closing mechanism

Convenient 3-dimensional adjustment

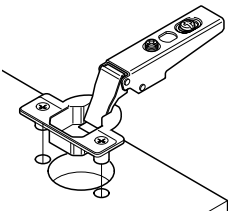
MOUNTING DOOR TO CABINET



Häfele Metalla 310 quick fixing system

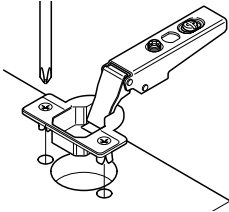
Hinge arm is positioned and clipped onto mounting plate.
It can easily be removed from the mounting plate.

FIXING METHODS



Knock-in

Machine-fixing of cup by press fitting.



Quick-mount

Cup fixed with pre-mounted spreading dowels.

NUMBER OF CONCEALED HINGES PER DOOR

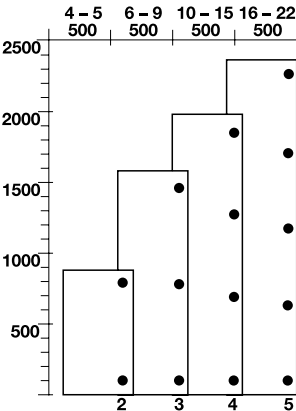
The values in the table are sample measurements.

A trial mounting is recommended.

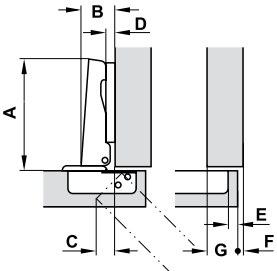
The number of concealed hinges per door depends on:

- > Door width and height
- > Door weight
- > Door material

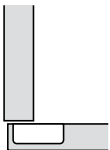
According to the example diagram three concealed hinges have to be fitted with a door height of 1,600 mm and a door weight of 6–9 kg.



MOUNTING

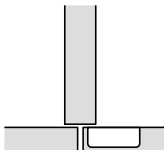


- A Hinge arm length
- B Hinge arm height
- C Door offset
- D Distance (mounting plate)
- E Distance to cup
- F Gap
- G Door overlay



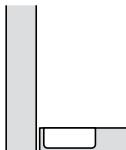
Full overlay mounting

Concealed hinge with straight arm.



Half overlay mounting

Concealed hinge with half cranked hinge arm.

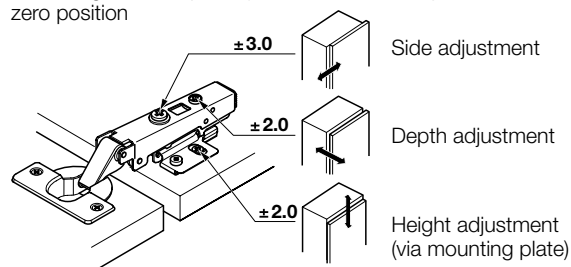


Inset mounting

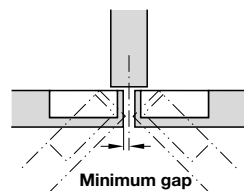
Concealed hinge with full cranked hinge arm.

ADJUSTMENT FACILITIES

Processing and mounting deviations can be corrected with the 3 dimensional adjustment facility. Side, height and depth adjustments are factory set to zero position

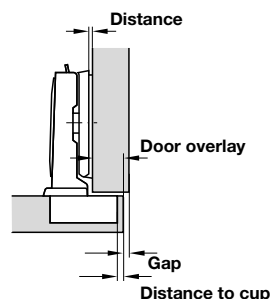


DETERMINING THE MINIMUM GAP



The required minimum gap is dependent on the hinge type, the distance to cup and the door thickness. Once the distance to cup and the door thickness have been determined, the minimum gap can be looked up in the application table.

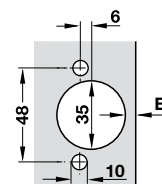
CHOICE OF MOUNTING PLATE



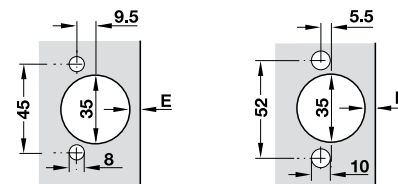
The different spacing heights of the mounting plates allow adjustments to be made to the door overlay. The dimension of the distance results from the thickness of the mounting plate. The starting point for determining the required distance is the required mounting method with a defined door overlay.

DRILLING PATTERN FOR CUP FIXING

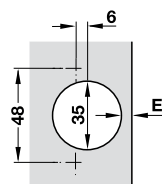
For Knock-in



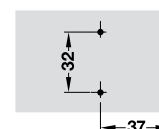
Quick-mount



For Screw fixing



Cruciform mounting plate



Example

With a door thickness 19 mm and distance to cup 4 mm there is a minimum gap of 1.1 mm.

Door thickness (mm)	Distance to cup (mm)			
	3	4	5	6
16	0.2	0.2	0.2	0.2
18	0.8	0.8	0.8	0.7
19	1.2	1.1	1.1	1.0
20	1.6	1.5	1.4	1.3
22	2.9	2.6	2.4	2.3
24	4.6	4.1	3.8	3.7

Example

Door overlay (mm)										
12	13	14	15	16	17	18	19	20		
					3	4	5	6	0	
			3	4	5	6	7		2	
	3	4	5	6					4	
Distance to cup (mm)					Mounting plate distance (mm)					

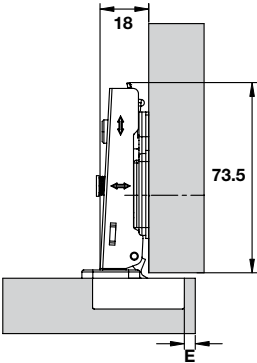
Once the door overlay and the distance to cup have been determined, the distance can be looked up in the application table. In the example the door overlay is defined at 17 mm and the distance to cup at 5 mm. This produces a mounting plate distance of 2 mm.

OPENING ANGLE 110°



> Material:	Steel cup and hinge arm
> Finish:	Nickel-plated
> Drilling depth (mm):	12
> Adjusting facility:	3-dimensional
> Features:	With automatic closing spring
	With soft close damping device or without spring
> Cup fixing:	Screw fixing, knock-in or quick-mount
> Fixing door to carcase:	Clip on system

FULL OVERLAY MOUNTING



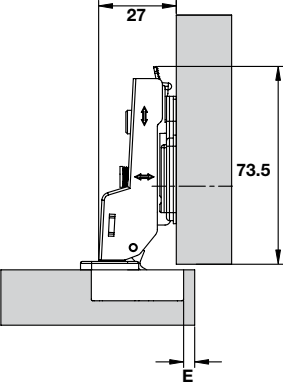
Door overlay (mm)

10	11	12	13	14	15	16	17	18	
				3	4	5	6	7	0
		3	4	5	6	7			2
3	4	5	6	7					4
Distance to cup E (mm)					Mounting plate distance (mm)				

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Screw fixing	–	311.04.003	–
Knock-in	311.04.257	311.04.021	–
Quick-mount	–	–	311.04.277
Without spring			
Knock-in	311.04.409	–	–
Quick-mount	–	–	311.04.483

Packing: 1 and 250 pieces

HALF OVERLAY MOUNTING

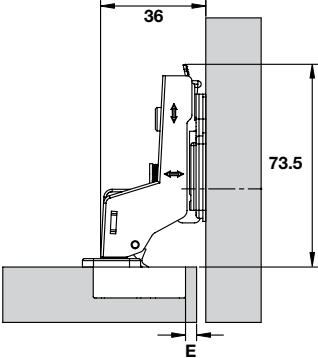


Door overlay (mm)										
1	2	3	4	5	6	7	8	9		
				3	4	5	6	7	0	
			3	4	5	6	7		2	
3	4	5	6	7						4
Distance to cup E (mm)					Mounting plate distance (mm)					

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Screw fixing	–	311.04.004	–
Knock-in	311.04.260	311.04.270	–
Quick-mount	–	–	311.04.280

Packing: 1 and 250 pieces

INSET MOUNTING



Door overlay (mm)										
-8	-7	-6	-5	-4	2	3	4	5		
				3	4	5	6	7	0	
			3	4	5	6	7		2	
3	4	5	6	7						
Distance to cup E (mm)					Mounting plate distance (mm)					

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Screw fixing	–	311.04.005	–
Knock-in	311.04.263	311.04.273	–
Quick-mount	–	–	311.04.283

Packing: 1 and 250 pieces

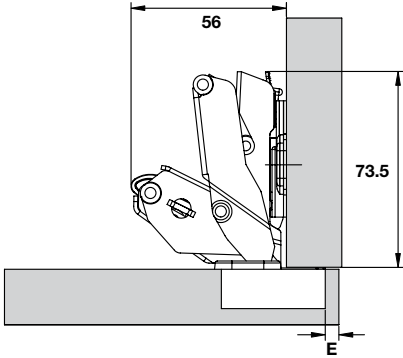
OPENING ANGLE 155°

Zero protusion for cabinets with inner pull-outs



> Material:	Steel cup and hinge arm
> Finish:	Nickel-plated
> Drilling depth (mm):	12
> Adjusting facility:	3-dimensional
> Features:	With automatic closing spring With soft close damping device
> Cup fixing:	Knock-in or quick-mount
> Fixing door to carcass:	Clip on system

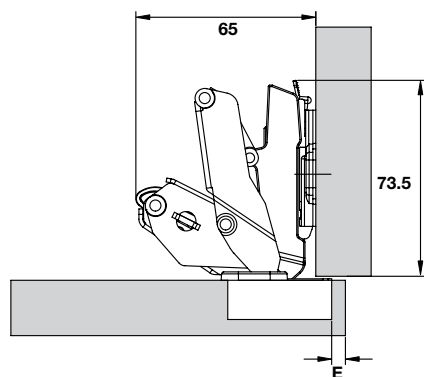
FULL OVERLAY MOUNTING



Door overlay (mm)								
14	15	16	17	18	19	20	21	
			3	4	5	6	7	0
		3	4	5	6	7	2	
3	4	5	6	7				4
Distance to cup E (mm)					Mounting plate distance (mm)			
Cup fixing			Cat. No.					
Drilling pattern			45/9.5		48/6		52/5.5	
Knock-in			311.63.760		–		–	
Quick-mount			–		–		311.63.792	

Packing: 1 and 250 pieces

HALF OVERLAY MOUNTING



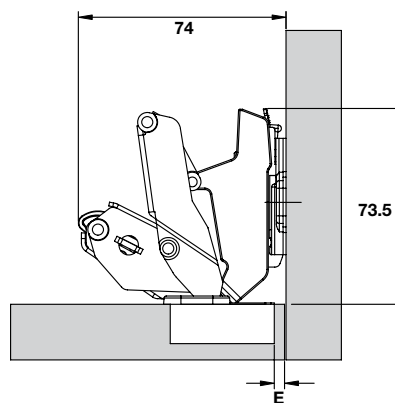
Door overlay (mm)

4	5	6	7	8	9	10	11	12	
				3	4	5	6	7	0
		3	4	5	6	7			2
3	4	5	6	7					4
Distance to cup E (mm)				Mounting plate distance (mm)					

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Knock-in	311.63.763	—	—
Quick-mount	—	—	—

Packing: 1 and 250 pieces

INSET MOUNTING



Door overlay (mm)

-3	-2	-1	0	1	2	3	4	5	
7	6	5	4	3					0
		7	6	5	4	3			2
				7	6	5	4	3	
Distance to cup E (mm)				Mounting plate distance (mm)					

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Knock-in	311.63.766	—	—
Quick-mount	—	—	—

Packing: 1 and 250 pieces

90° BLIND PANEL HINGE



- > Material:

> Finish:

> Drilling depth (mm):

> Adjusting facility:

> Features:

> Cup fixing:

> Fixing door to carcase:
- Steel cup and hinge arm

Nickel-plated

12

3-dimensional

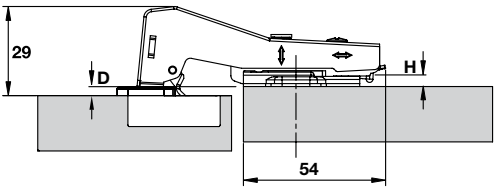
With automatic closing spring

With soft close damping device

Knock-in or quick-mount

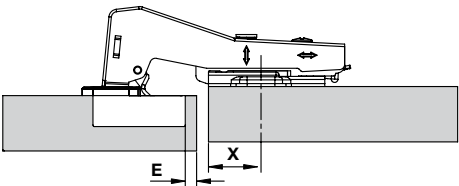
Clip on system

Mounting plate distance



Mounting plate distance (H)	Door protrusion (D)
0	2.8
2	0.8
4	-1.2

Mounting plate position



Distance to cup (E)	Mounting plate position (X)
4	20
5	19

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Knock-in	311.04.418	—	—
Quick-mount	—	—	311.04.481

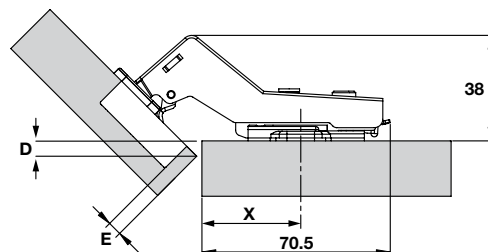
Packing: 1 and 250 pieces

45° CORNER APPLICATION (STANDARD)



- > Material: Steel cup and hinge arm
- > Finish: Nickel-plated
- > Drilling depth (mm): 12
- > Adjusting facility: 3-dimensional
- > Features: With automatic closing spring
With soft close damping device
- > Cup fixing: Knock-in or quick-mount
- > Fixing door to carcass: Clip on system

Installation and mounting plate distance



Distance to cup (E)	Mounting plate position (X)
4	37
5	36
6	35
7	34

Mounting plate distance (H)	Distance to cup (E)			
	4	5	6	7
0	4.5	5.4	6.3	7.2
2	2.5	3.4	4.3	5.2
4	0.5	1.4	2.3	3.2

Door Overlay (D)

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Knock-in	311.04.404	—	—
Quick-mount	—	—	311.04.487

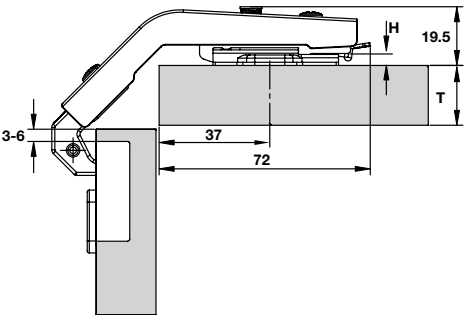
Packing: 1 and 250 pieces

CORNER DOOR HINGE
For door thicknesses from 16 to 22 mm



- > Material: Steel cup and hinge arm
- > Finish: Nickel-plated
- > Drilling depth (mm): 12
- > Door thickness (mm): 16 to 22
- > Adjusting facility: 3-dimensional
- > Features: With automatic closing spring
- > Cup fixing: Knock-in or quick-mount
- > Fixing door to carcase: Clip on system

Mounting plate distance



Mounting plate distance (H)	Door thickness (T)
0	<18
2	18 to 22



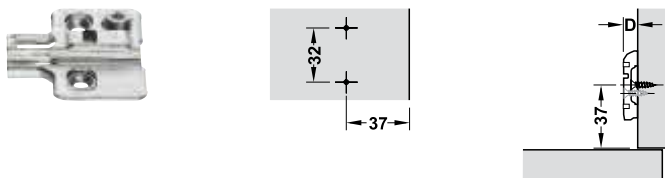
Note:
Alignment of the door corners can be made using the centre adjustment screw in the arm.

Cup fixing	Cat. No.		
Drilling pattern	45/9.5	48/6	52/5.5
Knock-in	311.66.531	–	–
Quick-mount	–	–	311.65.553

Packing: 1 and 250 pieces

METALLA CRUCIFORM MOUNTING PLATES

For fixing with HOSPA screws

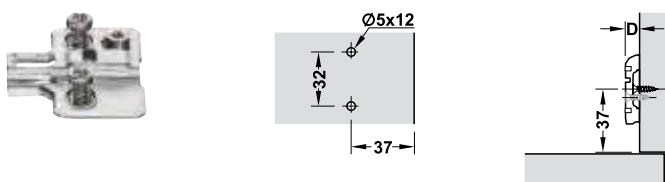


- > Material: Steel
- > Finish: Nickel-plated

Distance D (mm)	Cat. No.
0	311.70.610
2	311.70.612
4	311.70.614

Packing: 1 and 250 pieces

With pre-assembled Euro screws

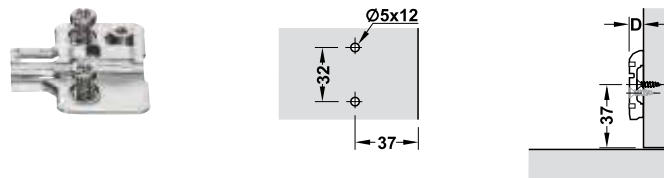


- > Material: Steel
- > Finish: Nickel-plated

Distance D (mm)	Cat. No.
0	311.70.620
2	311.70.622
4	311.70.624

Packing: 1 and 250 pieces

With pre-mounted screws and expanding dowels



- > Material: Steel
- > Finish: Nickel-plated

Distance D (mm)	Cat. No.
0	311.70.630
2	311.70.632
4	311.70.634

Packing: 1 and 250 pieces

HINGE ARM COVER CAPS



> Material:	Steel
> Finish:	Nickel-plated

Version	Cat. No.
For full overlay hinges	311.91.520
For half overlay and inset hinges	311.91.522

Packing: 50 pieces



Note:
Suitable for 110° hinges only

HINGE COVER CAPS



> Material:	Steel
> Finish:	Nickel-plated

	Cat. No.
	311.91.540

Packing: 50 pieces



The image shows a white kitchen cabinet with a wooden-grain base. A black Häfele Matrix Box S drawer is pulled out, revealing its interior. The drawer has a black handle on the front. The cabinet has a white countertop. The floor is made of dark wood.

HÄFELE MATRIX BOX S

- Available in White and Matt Black
- 84, 135, 167 and 199mm height options
- 35 and 50kg weight capacity
- LGA tested to 60,000 cycles



HÄFELE

732.04.069 HÄFELE METALLA 310 - 06.22

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