



Hinges



Hinges

► Category overview

Concealed hinges

- Sensys 6 – 54, 88 – 95
- Intermat 56 – 90, 96 – 97



Hinges for outdoor and high exposure applications

- Veosys 98 – 106



Special hinges

- Centre hinges 110 – 111
- Glass door hinges 112
- Flap hinges 113
- Optimat hinges for front frame 114



Hinges for use with integrated refrigerators

- ET582 118
- Evisys 119



Optional Silent System

122 – 123



Push to open opening system for handleless furniture fronts

124 – 139



Concealed hinges

► Range summary / technical comparison

	Sensys	Intermat
		
Page	6 - 54, 88 - 95	56 - 90, 96 - 97
Hinge cup mounting	► For screwing on ► For pressing in ► Fix fast assembly ► With premounted expanding	► For screwing on ► For pressing in ► Fix fast assembly ► With premounted expanding
Door / door frame material	Wood, glass / wood, aluminium	Wood, glass / wood, aluminium
Installation	Clip on installation	Clip on installation
Closing system	► With self closing feature ► With free swinging feature	► With self closing feature ► With free swinging feature
Silent System	► Integrated Silent System ► Without Silent System	Optional
Opening angle	95° - 110°, 165°	95°, 110°, 165°
Zero protrusion hinge	165° (Optional soft opening)	165°
Door adjustment	3-dimensional	3-dimensional
Mounting plate system	System 8099 with oblong hole and eccentric cam height adjustment	System 8099 with oblong hole and eccentric cam height adjustment
Optional equipment	► Opening system Push to open ► Accessories	► Opening system Push to open ► Silent System ► Accessories

Fast assembly concealed hinge

► Sensys with integrated Silent System



Sensys

Our most popular concealed hinge



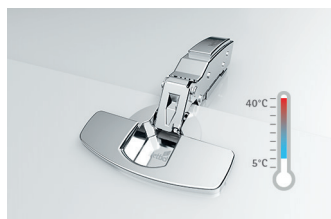
Stand apart

The easy way to meet customer expectations: with well balanced, award winning Sensys design.



Adjust less

No matter whether large or heavy, the door always closes reliably and gently as a result of the wide automatic closing angle of 35°.



Withstand pressure

No doors slamming when it's hot, no doors left standing open when it's cold. Sensys is optimised for reliable performance over a wide temperature range from + 5°C to + 40°C.



Find cost efficiency

Some commonly used door formats normally hung on 3 or more hinges can often be mounted with one hinge less due to best in class Silent System performance.



Fast-assembly concealed hinge

- Sensys
- Range summary



Sensys 110° standard hinge

- Sensys 8645i / 8645 / 8675
- 110° opening angle

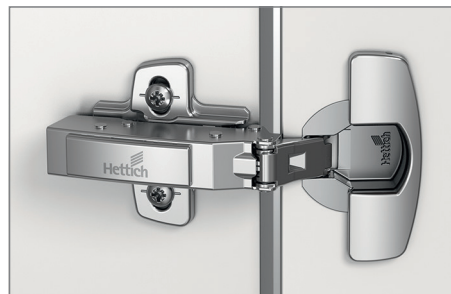
8 - 11



Sensys 95° thick door hinge

- Sensys 8631i / 8631 / 8661
- For narrow reveals between thick doors

12 - 16



Sensys 110° thin door hinge

- Sensys 8646i / 8646
- For thin doors

17 - 19



Sensys 165° zero protrusion hinge

- Sensys 8657i / 8657 / 8687
- For unobstructed access to storage space

20 - 23



Sensys W30 angle hinge

- Sensys 8639i W30
- For 30° face angle applications

24 - 25



Sensys W45 angle hinge

- Sensys 8639i W45 / 8639 W45 / 8669 W45
- For face angle 45°

26 - 29



Sensys W90 angle hinge

- Sensys 8639i W90 / 8639 W90 / 8669 W90
- For 90° face angle applications

30 - 33



Sensys aluminium framed hinge

- Sensys 8638i
- For aluminium framed doors

34 - 35



Intermat folding door hinge

- Intermat 9930 with cup in Sensys design
- For folding doors

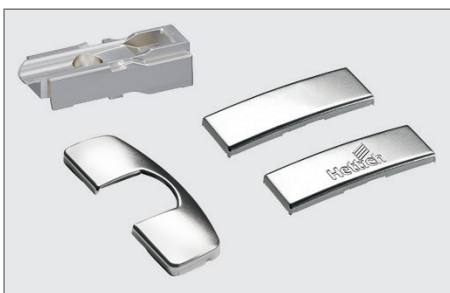
36 - 37



Mounting plates

- System 8099
- For Sensys and Intermat hinges

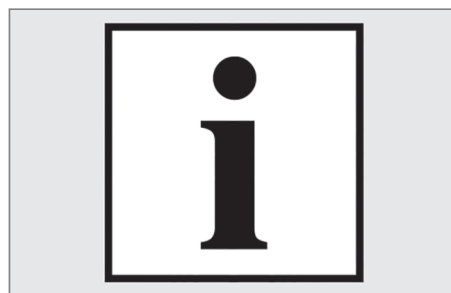
88 - 90



Adapter for glue mounting and Accessories

- For Sensys

38 - 39, 91 - 95

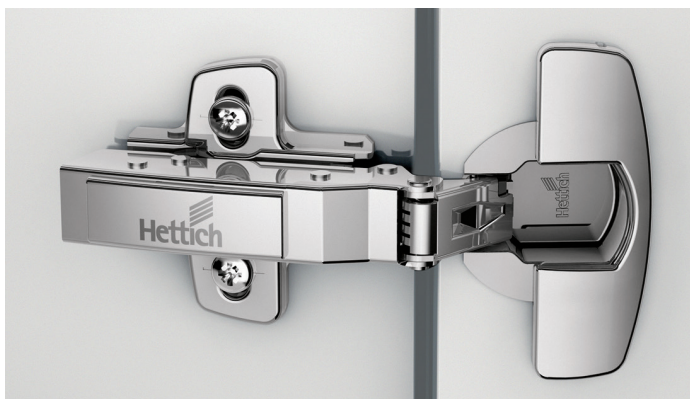


Technical information

40 - 54

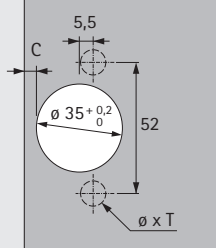
Fast assembly concealed hinge with integrated Silent System

- ▶ **Sensys 8645i**
- ▶ **Opening angle 110°**



- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness 15 - 24 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ All visible parts in either nickel or obsidian black
- ▶ Hinge arm material: nickel plated steel, steel in obsidian black
- ▶ Hinge cup material: nickel plated steel, steel in obsidian black

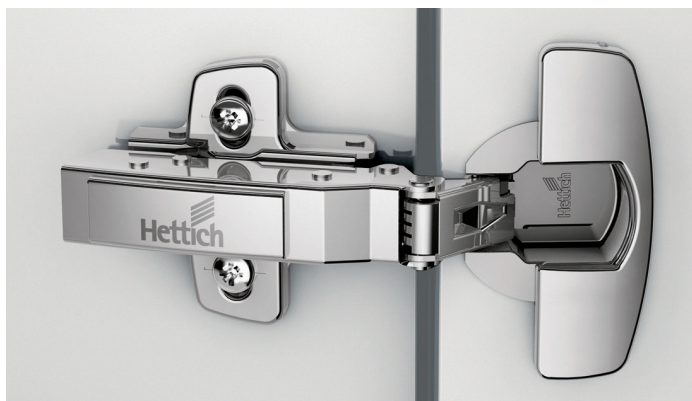
Sensys 8645i, opening angle 110°

				Full overlay	Half overlay	Inset	
Cup assembly	Drilling pattern	Mounting hole $\varnothing$ x T mm	Colour	Basis B 12,5 mm	Basis B 3 mm	Basis B -4 mm	PU
For screwing on TH 52		-	Nickel	9 071 205	9 071 206	9 071 207	200 ea.
		-	Obsidian Black	9 091 738	9 091 739	9 091 740	50 ea.
For pressing in TH 53		$\varnothing$ 10 x 11	Nickel	9 071 208	9 071 209	9 071 210	200 ea.
Fix fast installation THS 55		$\varnothing$ 10 x 6	Nickel	9 073 614	9 073 615	9 073 616	50 ea.
With premounted expanding sockets TH 58		$\varnothing$ 10 x 11	Nickel	9 073 567	9 073 568	-	200 ea.
				-	-	9 073 688	50 ea.
		$\varnothing$ 10 x 11	Obsidian Black	9 091 771	9 091 772	9 091 773	50 ea.



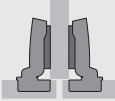
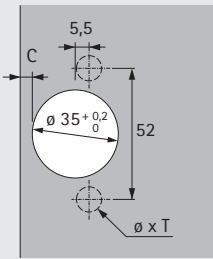
Fast assembly concealed hinge without integrated Silent System

- ▶ Sensys 8645
- ▶ Opening angle 110°



- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness 15 - 22 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8645, opening angle 110°

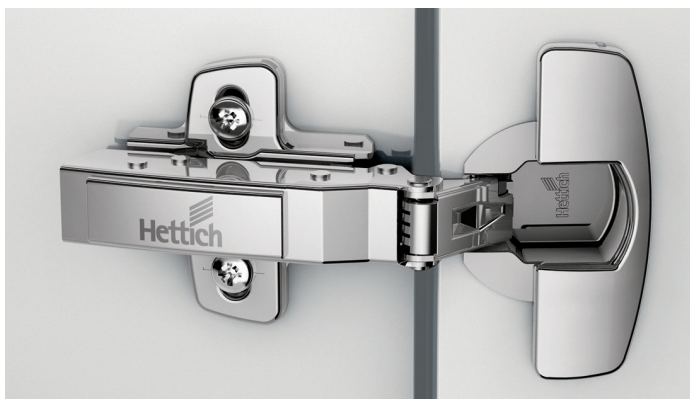
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Full overlay	Half overlay	Inset	PU
				 Basis B 12,5 mm	 Basis B 3 mm	 Basis B -4 mm	
For screwing on TH 52		-	Nickel	9 071 259	9 071 260	9 071 261	200 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 071 262	9 073 642	-	200 ea.
Fix fast installation		ø 10 x 6	Nickel	-	-	9 073 643	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	Nickel	9 073 644	9 073 645	9 073 646	50 ea.
				9 073 576	-	-	200 ea.

Useful information

- ▶ For mounting plates and accessories, see page 88 - 95
- ▶ For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

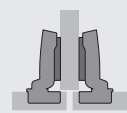
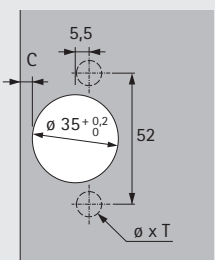
Fast assembly concealed hinge without self closing feature

- **Sensys 8675**
- **Opening angle 110°**



- Hinge with clip on installation without self closing feature
- For example for Push to open applications
- Quality classification under EN 15570, Level 3
- For door thickness 15 - 24 mm
- Cup diameter 35 mm
- Cup depth 12.8 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- All visible parts in either nickel or obsidian black
- Hinge arm material: nickel plated steel, steel in obsidian black
- Hinge cup material: nickel plated steel, steel in obsidian black

Sensys 8675, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Full overlay	Half overlay	Inset	PU
				 Basis B 12,5 mm	 Basis B 3 mm	 Basis B -4 mm	
For screwing on TH 52		-	Nickel	9 073 662	9 073 663	9 073 664	50 ea.
		-	Obsidian Black	9 091 741	9 091 742	9 091 743	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	-	9 073 666	9 073 667	50 ea.
				9 071 316	-	-	200 ea.
Fix fast installation THS 55		ø 10 x 6	Nickel	9 073 668	9 073 669	9 073 670	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	Nickel	9 073 704	-	-	50 ea.
		ø 10 x 11	Obsidian Black	9 091 774	9 091 775	9 091 776	50 ea.



Fast assembly concealed hinge

- Sensys 8645i / Sensys 8645 / Sensys 8675
- Opening angle 110°

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
15	0.2	0.2	0.2	0.2	0.2	0.2				
16	0.3	0.3	0.3	0.3	0.3	0.3				
17	0.4	0.4	0.4	0.4	0.4	0.4				
18	0.6	0.6	0.6	0.6	0.6	0.5				
19	0.8	0.8	0.8	0.8	0.7	0.7				
20	1.1	1.0	1.0	1.0	1.0	0.9				
21	1.4	1.3	1.3	1.3	1.2	1.2				
22	2.2	1.8	1.7	1.6	1.6	1.5				
23	3.0	2.6	2.4	2.2	2.0	1.9				
24	3.9	3.4	3.2	3.0	2.6	2.4				

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

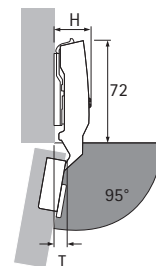
Radius 0 mm:

Values shown in table + 0.4 mm

Radius 3 mm:

Values shown in table - 0.6 mm

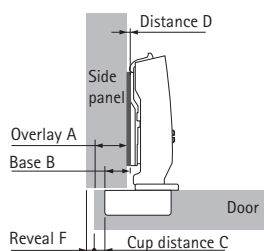
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
Full overlay	25.0	8.5
Half overlay	31.0	18.0
Inset	38.0	25.0

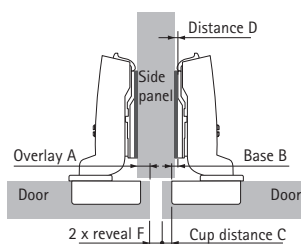
Full overlay



Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
Distance D mm										
10	5.5	6.5	7.0	7.5	8.5	9.5				
11	4.5	5.5	6.0	6.5	7.5	8.5				
12	3.5	4.5	5.0	5.5	6.5	7.5				
13	2.5	3.5	4.0	4.5	5.5	6.5				
14	1.5	2.5	3.0	3.5	4.5	5.5				
15	0.5	1.5	2.0	2.5	3.5	4.5				
16		0.5	1.0	1.5	2.5	3.5				
17			0.0	0.5	1.5	2.5				
18					0.5	1.5				
19						0.5				

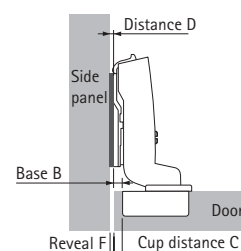
Half overlay



Distance D = C + B - A
= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
Distance D mm										
0.5	5.5	6.5	7.0	7.5	8.5	9.5				
1.5	4.5	5.5	6.0	6.5	7.5	8.5				
2.5	3.5	4.5	5.0	5.5	6.5	7.5				
3.5	2.5	3.5	4.0	4.5	5.5	6.5				
4.5	1.5	2.5	3.0	3.5	4.5	5.5				
5.5	0.5	1.5	2.0	2.5	3.5	4.5				
6.5		0.5	1.0	1.5	2.5	3.5				
7.5			0.0	0.5	1.5	2.5				
8.5					0.5	1.5				
9.5						0.5				

Inset



Distance D = C + B + F
= cup distance C - 4 mm + reveal F

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
Distance D mm										
15	0.2	0.7	1.2	2.2	3.2					
16	0.3	0.8	1.3	2.3	3.3					
17	0.4	0.9	1.4	2.4	3.4					
18	0.6	1.1	1.6	2.6	3.5					
19	0.8	1.3	1.8	2.7	3.7					
20	0.1	1.0	1.5	2.0	3.0	3.9				
21	0.4	1.3	1.8	2.3	3.2	4.2				
22	1.2	1.8	2.2	2.6	3.6	4.5				
23	2.0	2.6	2.9	3.2	4.0	4.9				
24	2.9	3.4	3.7	4.0	4.6	5.4				

Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

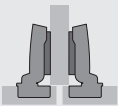
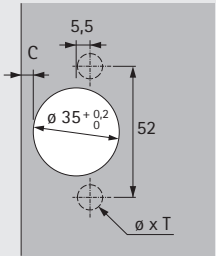
Fast assembly concealed hinge with integrated Silent System

- Sensys 8631i for thick doors
- 95° opening angle



- Concealed hinge with clip on installation and integrated Silent System
- Quality classification under EN 15570, Level 2
- For door thickness of 15 – 32 mm
- Cup diameter 35 mm
- Cup depth 12.8 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- All visible parts in either nickel or obsidian black
- Hinge arm material: nickel plated steel, steel in obsidian black
- Hinge cup material: nickel plated steel, steel in obsidian black

Sensys 8631i, opening angle 95°

				Full overlay 	Half overlay 	Inset 	
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
For screwing on TH 52		-	Nickel	9 090 260	-	-	200 ea.
				-	9 091 410	9 091 420	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 090 261	-	-	200 ea.
				-	9 091 411	9 091 421	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	Nickel	9 091 406	9 091 416	9 091 426	50 ea.
		ø 10 x 11	Obsidian black	9 091 754	9 091 785	9 091 757	50 ea.



Fast assembly concealed hinge without integrated Silent System

- ▶ Sensys 8631 for thick doors
- ▶ 95° opening angle



- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ Quality classification under EN 15570, Level 2
- ▶ For door thickness of 15 – 32 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8631, opening angle 95°

				Full overlay	Half overlay	Inset	
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
For screwing on TH 52		-	Nickel	9 091 490	9 091 500	9 091 510	50 ea.

Fast assembly concealed hinge without self closing feature

- Sensys 8661 for thick doors
- 95° opening angle



- Hinge with clip on installation without self closing feature
- For example for Push to open applications
- Quality classification under EN 15570, Level 2
- For door thickness of 15 – 32 mm
- Cup diameter 35 mm
- Cup depth 12.8 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel

Sensys 8661, opening angle 95°

				Full overlay	Half overlay	Inset	
Cup assembly	Drilling pattern	Mounting hole $\varnothing$ x T mm	Colour	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
For screwing on TH 52		-	Nickel	9 091 580	9 091 590	9 091 600	50 ea.



Fast assembly concealed hinge

- Sensys 8631i / Sensys 8631 / Sensys 8661 for thick doors
- 95° opening angle

Minimum reveal per door

Doorthickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
15	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
16	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
19	0.3	0.3	0.3	0.3	0.3	0.3	0.3			
20	0.4	0.4	0.4	0.4	0.4	0.4	0.4			
21	0.6	0.6	0.6	0.6	0.6	0.6	0.6			
22	0.7	0.7	0.7	0.7	0.7	0.7	0.7			
23	0.9	0.9	0.9	0.9	0.9	0.9	0.9			
24	1.1	1.0	1.0	1.0	1.0	1.0	1.0			
25	1.3	1.2	1.2	1.2	1.2	1.2	1.2			
26	1.5	1.5	1.4	1.4	1.4	1.4	1.4			
27	1.7	1.7	1.7	1.7	1.6	1.6	1.6			
28	2.0	2.0	1.9	1.9	1.9	1.8	1.8			
29	2.9	2.3	2.2	2.2	2.2	2.1	2.1			
30	3.8	3.2	3.0	2.7	2.5	2.4	2.4			
31	4.8	4.1	3.8	3.6	3.1	2.7	2.7			
32	5.7	5.1	4.8	4.5	3.9	3.4	3.0			

Please note:

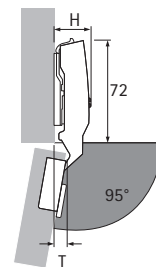
The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Values shown in table + 0.4 mm

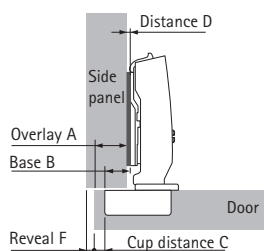
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
Full overlay	24.0	12.5
Half overlay	28.3	22.0
Inset	35.3	29.0

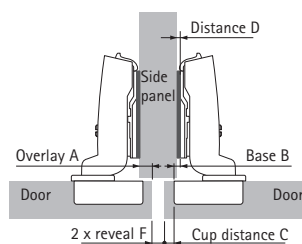
Full overlay



Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
	Distance D mm									
10	5.5	6.5	7.0	7.5	8.5	9.5	10.5			
11	4.5	5.5	6.0	6.5	7.5	8.5	9.5			
12	3.5	4.5	5.0	5.5	6.5	7.5	8.5			
13	2.5	3.5	4.0	4.5	5.5	6.5	7.5			
14	1.5	2.5	3.0	3.5	4.5	5.5	6.5			
15	0.5	1.5	2.0	2.5	3.5	4.5	5.5			
16		0.5	1.0	1.5	2.5	3.5	4.5			
17			0.0	0.5	1.5	2.5	3.5			
18					0.5	1.5	2.5			
19						0.5	1.5			
20							0.5			

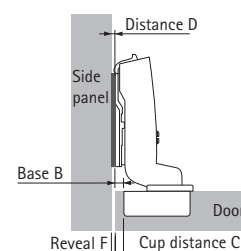
Half overlay



Distance D = C + B - A
= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
	Distance D mm									
0.5	5.5	6.5	7.0	7.5	8.5	9.5	10.5			
1.5	4.5	5.5	6.0	6.5	7.5	8.5	9.5			
2.5	3.5	4.5	5.0	5.5	6.5	7.5	8.5			
3.5	2.5	3.5	4.0	4.5	5.5	6.5	7.5			
4.5	1.5	2.5	3.0	3.5	4.5	5.5	6.5			
5.5	0.5	1.5	2.0	2.5	3.5	4.5	5.5			
6.5		0.5	1.0	1.5	2.5	3.5	4.5			
7.5			0.0	0.5	1.5	2.5	3.5			
8.5					0.5	1.5	2.5			
9.5						0.5	1.5			
10.5							0.5			
										</

Inset



Distance D = C + B + F
= cup distance C - 4 mm + reveal F

Door thick- ness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
	Distance D mm									
15		0.1	0.6	1.1	2.1	3.1	4.1			
16		0.1	0.6	1.1	2.1	3.1	4.1			
17		0.2	0.7	1.2	2.2	3.2	4.2			
18		0.2	0.7	1.2	2.2	3.2	4.2			
19		0.3	0.8	1.3	2.3	3.3	4.3			
20		0.4	0.9	1.4	2.4	3.4	4.4			
21		0.6	1.1	1.6	2.6	3.6	4.6			
22		0.7	1.2	1.7	2.7	3.7	4.7			
23		0.9	1.4	1.9	2.9	3.9	4.9			
24	0.1	1.0	1.5	2.0	3.0	4.0	5.0			
25	0.3	1.2	1.7	2.2	3.2	4.2	5.2			
26	0.5	1.5	1.9	2.4	3.4	4.4	5.4			
27	0.7	1.7	2.2	2.7	3.6	4.6	5.6			
28	1.0	2.0	2.4	2.9	3.9	4.8	5.8			
29	1.9	2.3	2.7	3.2	4.2	5.1	6.1			
30	2.8	3.2	3.5	3.7	4.5	5.4	6.4			
31	3.8	4.1	4.3	4.6	5.1	5.7	6.7			
32	4.7	5.1	5.3	5.5	5.9	6.4	7.0			

Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

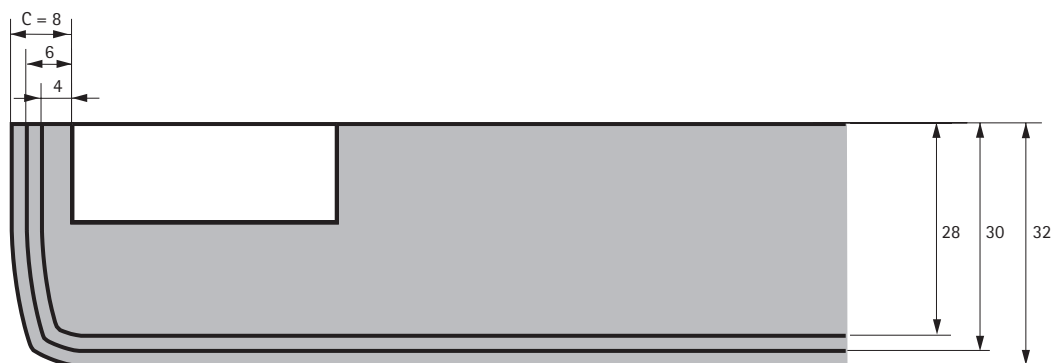
Fast assembly concealed hinge

- Sensys 8631i / Sensys 8631 / Sensys 8661 for thick doors
- 95° opening angle

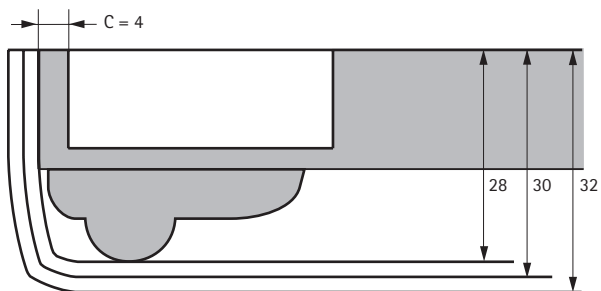
Door contours for minimum reveal application - scale 1:1

The values shown in the Minimum reveal table refer to an edge radius of 1 mm. Smaller reveal values apply if door edges are more rounded.

To obtain a minimum reveal application, the chosen door contour must lie within the template illustrated below. All contours protruding beyond the template will increase the reveal accordingly.

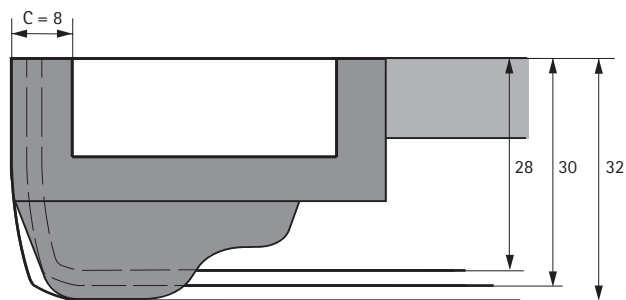


Example of minimum reveal application



Example of minimum reveal application

Door thickness	16 mm
Profile thickness	12 mm
Overall thickness	28 mm
Cup distance C	4 mm



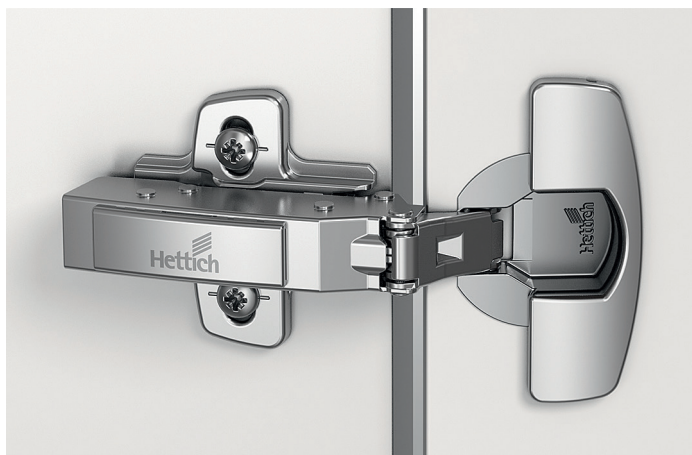
Example of minimum reveal application

Door thickness	19 mm
Profile thickness	13 mm
Overall thickness	32 mm
Cup distance C	8 mm



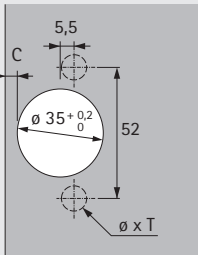
Fast assembly concealed hinge with integrated Silent System

- Sensys 8646i for thin doors
- 110° opening angle



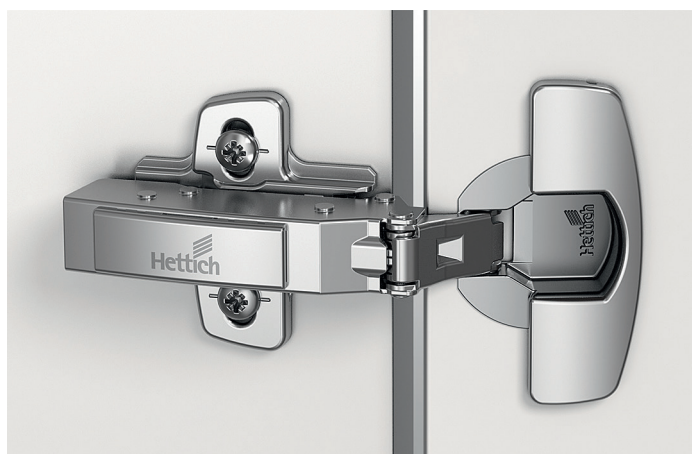
- Concealed hinge with clip on installation and integrated Silent System
- For door thickness of 10 – 16 mm
- Cup diameter 35 mm
- Cup depth 7.8 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- All visible parts in either nickel or obsidian black
- Hinge arm material: nickel plated steel, steel in obsidian black
- Hinge cup material: nickel plated steel, steel in obsidian black
- **Note:** The method selected for attaching the hinge to the door must be suitable for the type and quality of door material and tested for a secure fit.

Sensys 8646i, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole $\varnothing$ x T mm	Colour	Full overlay 	Half overlay 	Inset 	PU
For screwing on TH 52		-	Nickel	9 094 270	9 094 280	9 094 290	50 ea.
For pressing in TH 53		$\varnothing$ 10 x 8	Nickel	9 094 271	-	-	50 ea.
With premounted expanding sockets TH 58		$\varnothing$ 10 x 8	Nickel	9 094 276	-	-	50 ea.
			Obsidian Black	9 091 793	-	-	

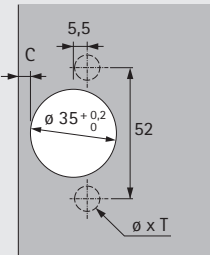
Fast assembly concealed hinge without integrated Silent System

- Sensys 8646 for thin doors
- 110° opening angle



- Concealed hinge with clip on installation without integrated Silent System
- For door thickness of 10 – 16 mm
- Cup diameter 35 mm
- Cup depth 7.8 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel
- **Note:** The method selected for attaching the hinge to the door must be suitable for the type and quality of door material and tested for a secure fit.

Sensys 8646, opening angle 110°

			Full overlay		
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Base B 12,5 mm	PU
For screwing on TH 52		-	Nickel	9 094 090	200 ea.



Fast assembly concealed hinge

► Sensys 8646i / Sensys 8646

► 110° opening angle

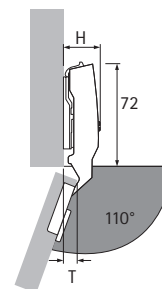
Minimum reveal per door

Door thickness mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
10	0.1	0.1	0.1	0.1	0.1	0.1						
11	0.2	0.2	0.2	0.2	0.2	0.2						
12	0.4	0.4	0.4	0.4	0.4	0.4						
13	0.6	0.6	0.5	0.5	0.5	0.5						
14	0.8	0.8	0.7	0.7	0.7	0.7						
15	1.0	1.0	1.0	1.0	0.9	0.9						
16	1.3	1.3	1.3	1.2	1.2	1.2						

Please note:

The table entries refer to doors with an edge radius of 1 mm.

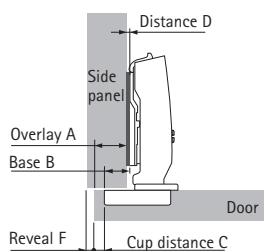
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
Full overlay	25.0	8.5
Half overlay	31.0	18.0
Inset	38.0	25.0

Full overlay

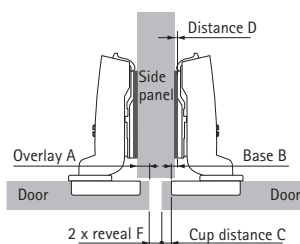


$$\text{Distance D} = C + B - A$$

$$= \text{cup distance C} + 12.5 \text{ mm} - \text{overlay A}$$

Overlay mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
Distance D mm												
10	5.5	6.5	7.0	7.5	8.5	9.5						
11	4.5	5.5	6.0	6.5	7.5	8.5						
12	3.5	4.5	5.0	5.5	6.5	7.5						
13	2.5	3.5	4.0	4.5	5.5	6.5						
14	1.5	2.5	3.0	3.5	4.5	5.5						
15	0.5	1.5	2.0	2.5	3.5	4.5						
16		0.5	1.0	1.5	2.5	3.5						
17			0.0	0.5	1.5	2.5						
18					0.5	1.5						
19						0.5						

Half overlay

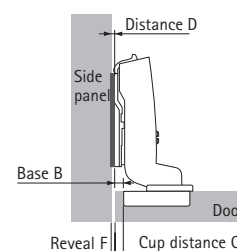


$$\text{Distance D} = C + B - A$$

$$= \text{cup distance C} + 3 \text{ mm} - \text{overlay A}$$

Overlay mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
Distance D mm												
0.5	5.5	6.5	7.0	7.5	8.5	9.5						
1.5	4.5	5.5	6.0	6.5	7.5	8.5						
2.5	3.5	4.5	5.0	5.5	6.5	7.5						
3.5	2.5	3.5	4.0	4.5	5.5	6.5						
4.5	1.5	2.5	3.0	3.5	4.5	5.5						
5.5	0.5	1.5	2.0	2.5	3.5	4.5						
6.5		0.5	1.0	1.5	2.5	3.5						
7.5			0.0	0.5	1.5	2.5						
8.5					0.5	1.5						
9.5						0.5						

Inset



$$\text{Distance D} = C + B + F$$

$$= \text{cup distance C} - 4 \text{ mm} + \text{reveal F}$$

Door thickness mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
Distance D mm												
10	0.1	0.6	1.1	2.1	3.1							
11	0.2	0.7	1.2	2.2	3.2							
12	0.4	0.9	1.4	2.4	3.3							
13	0.6	1.0	1.5	2.5	3.5							
14	0.8	1.2	1.7	2.7	3.7							
15	0.0	1.0	1.5	2.0	2.9	3.9						
16	0.3	1.3	1.8	2.2	3.2	4.2						

Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

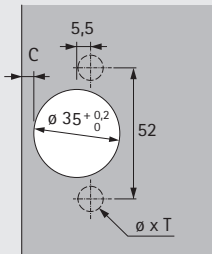
Fast assembly concealed hinge with integrated Silent System

- Sensys 8657i zero protrusion hinge
- Opening angle 165°



- Concealed hinge with clip on installation and integrated Silent System
- Quality classification under EN 15570, Level 3
- For door thickness of 15 – 32 mm
- Cup diameter 35 mm
- Cup depth 11.6 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- Opening angle can be reduced by means of optional accessories
- Zero protrusion hinge
- All visible parts in either nickel or obsidian black
- Hinge arm material: nickel plated steel, steel in obsidian black
- Hinge cup material: nickel plated steel, steel in obsidian black

Sensys 8657i, opening angle 165°

				Full overlay	Half overlay	
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Basis B 12,5 mm	Basis B 3 mm	PU
For screwing on TH 52		-	Nickel	9 099 540	9 099 550	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 099 541	9 099 551	50 ea.
Fix fast installation THS 55		ø 10 x 6	Nickel	9 099 543	9 099 553	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	Nickel	9 099 546	9 099 556	50 ea.
		ø 10 x 11	Obsidian Black	9 091 789	9 091 790	50 ea.



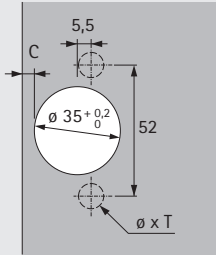
Fast assembly concealed hinge without integrated Silent System

- ▶ Sensys 8657, zero protrusion hinge
- ▶ Opening angle 165°



- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness of 15 – 32 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11.6 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment +3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Opening angle can be reduced by means of optional accessories
- ▶ Zero protrusion hinge
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8657, opening angle 165°

Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Full overlay	Half overlay	PU
				 Basis B 12,5 mm	 Basis B 3 mm	
For screwing on TH 52		-	Nickel	9 099 600	9 099 610	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 099 601	-	50 ea.
Fix fast installation THS 55		ø 10 x 6	Nickel	9 099 603	-	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	Nickel	9 099 606	-	50 ea.

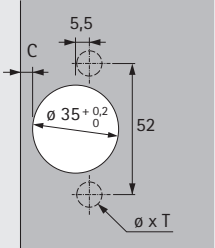
Fast assembly concealed hinge without self closing feature

- ▶ Sensys 8687, zero protrusion hinge
- ▶ Opening angle 165°



- ▶ Hinge with clip on installation without self closing feature
- ▶ For example for Push to open applications
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness of 15 – 32 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11.6 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Opening angle can be reduced by means of optional accessories
- ▶ Zero protrusion hinge
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8687, opening angle 165°

			Full overlay	Half overlay	
					
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Basis B 12,5 mm	Basis B 3 mm	PU
For screwing on TH 52		-	9 099 660	9 099 670	50 ea.



Fast assembly concealed hinge

► Sensys 8657i / Sensys 8657 / Sensys 8687

► Opening angle 165°

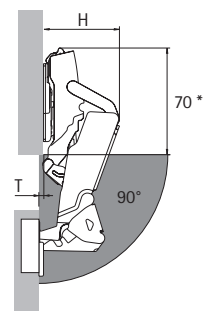
Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
15	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				
17	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				
19	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				
21	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				
23	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				
25	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.1	0.1	0.1	0.1	0.1	0.1				
27	0.1	0.1	0.1	0.1	0.1	0.1				
28	0.2	0.2	0.2	0.2	0.2	0.3				
29*	0.4	0.4	0.4	0.4	0.5	0.6				
30**	0.7	0.7	0.8	0.8	1.0	1.1				
31**	1.1	1.2	1.3	1.4	1.6					
32**	1.7	1.9	2.0	2.2						

*when using the opening angle limiter at 120°

**when using the opening angle limiter at 105°

Protrusions / installed depth

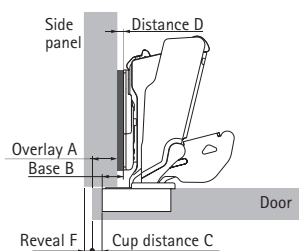


No door protrusion T up to distance D = 3, unobstructed interior for pull-outs.

*Hinge closed: 80 mm

Door mounting option	H mm (max. at 30°)	T mm (90°, D0)
Full overlay	66	-3
Half overlay	75.5	6.5

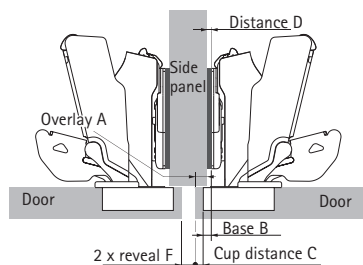
Full overlay



Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
Distance D mm										
10	5.5	6.5	7.0	7.5	8.5	9.5				
11	4.5	5.5	6.0	6.5	7.5	8.5				
12	3.5	4.5	5.0	5.5	6.5	7.5				
13	2.5	3.5	4.0	4.5	5.5	6.5				
14	1.5	2.5	3.0	3.5	4.5	5.5				
15	0.5	1.5	2.0	2.5	3.5	4.5				
16		0.5	1.0	1.5	2.5	3.5				
17			0.0	0.5	1.5	2.5				
18					0.5	1.5				
19						0.5				

Half overlay



Distance D = C + B - A
= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
Distance D mm										
- 2	8.0	9.0	9.5	10.0	11.0	12.0				
- 1	7.0	8.0	8.5	9.0	10.0	11.0				
0	6.0	7.0	7.5	8.0	9.0	10.0				
1	5.0	6.0	6.5	7.0	8.0	9.0				
2	4.0	5.0	5.5	6.0	7.0	8.0				
3	3.0	4.0	4.5	5.0	6.0	7.0				
4	2.0	3.0	3.5	4.0	5.0	6.0				
5	1.0	2.0	2.5	3.0	4.0	5.0				
6	0.0	1.0	1.5	2.0	3.0	4.0				
7		0.0	0.5	1.0	2.0	3.0				
8				0.0	1.0	2.0				
9					0.0	1.0				
10						0.0				

Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

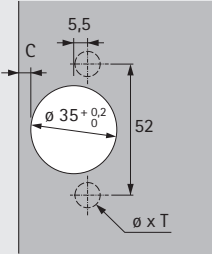
Fast assembly concealed hinge with integrated Silent System

- ▶ **Sensys 8639i W30**
- ▶ **For 30° face angle, 95° opening angle**



- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For diagonal base units, carcase angle 120°
- ▶ For door thickness 15 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ All visible parts in either nickel or obsidian black
- ▶ Hinge arm material: nickel plated steel, steel in obsidian black
- ▶ Hinge cup material: nickel plated steel, steel in obsidian black

Sensys 8639i W30, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Overlay	Inset	PU
				 Basis B 2 mm	 Basis B -16 mm	
For screwing on TH 52		-	Nickel	9 088 016	9 088 017	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 088 034	9 088 035	50 ea.



Fast assembly concealed hinge

► Sensys 8639i W30 / Sensys 8639 W30 / Sensys 8669 W30

► For 30° face angle, 95° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
16	0.3	0.3	0.3	0.3	0.3	0.3	0.3			
17	0.4	0.4	0.4	0.4	0.4	0.4	0.4			
18	0.6	0.6	0.6	0.6	0.6	0.5	0.5			
19	0.8	0.8	0.8	0.8	0.7	0.7	0.7			
20	1.1	1.0	1.0	1.0	1.0	0.9	0.9			
21	1.4	1.3	1.3	1.3	1.2	1.2	1.2			
22	2.2	1.8	1.7	1.6	1.6	1.5	1.4			
23	3.0	2.6	2.4	2.2	2.0	1.9	1.8			
24	3.9	3.4	3.2	3.0	2.6	2.4	2.2			
25	4.8	4.2	4.0	3.8	3.4	3.0	2.8			
26	5.7	5.1	4.8	4.6	4.2	3.8	3.4			
27	6.6	6.0	5.7	5.5	5.0	4.5	4.2			
28	7.5	6.9	6.6	6.3	5.8	5.3	4.9			

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Values shown in table + 0.4 mm

Radius 3 mm:

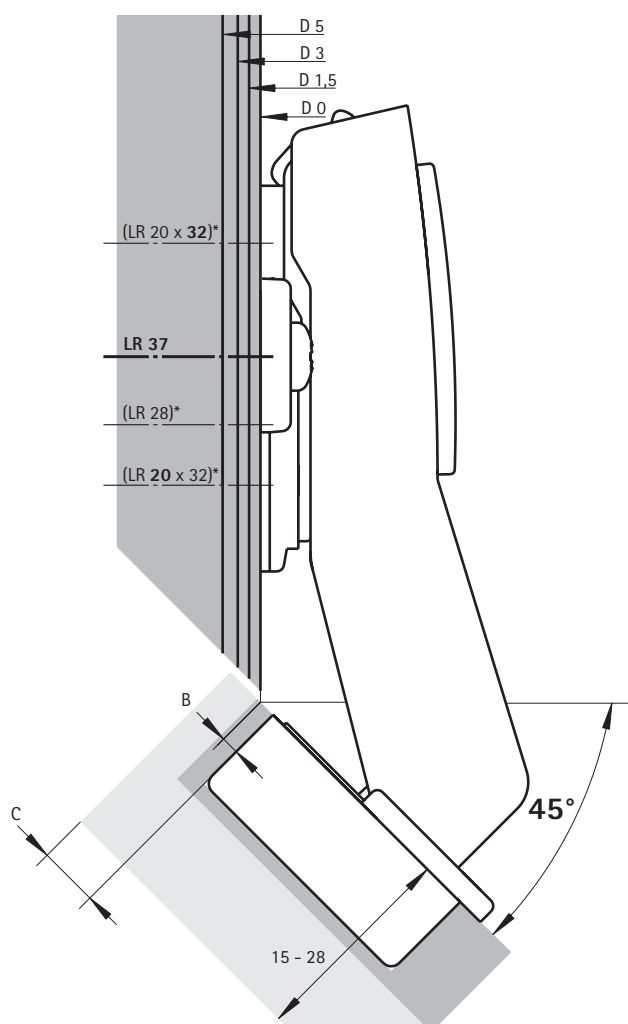
Values shown in table - 0.6 mm

Note

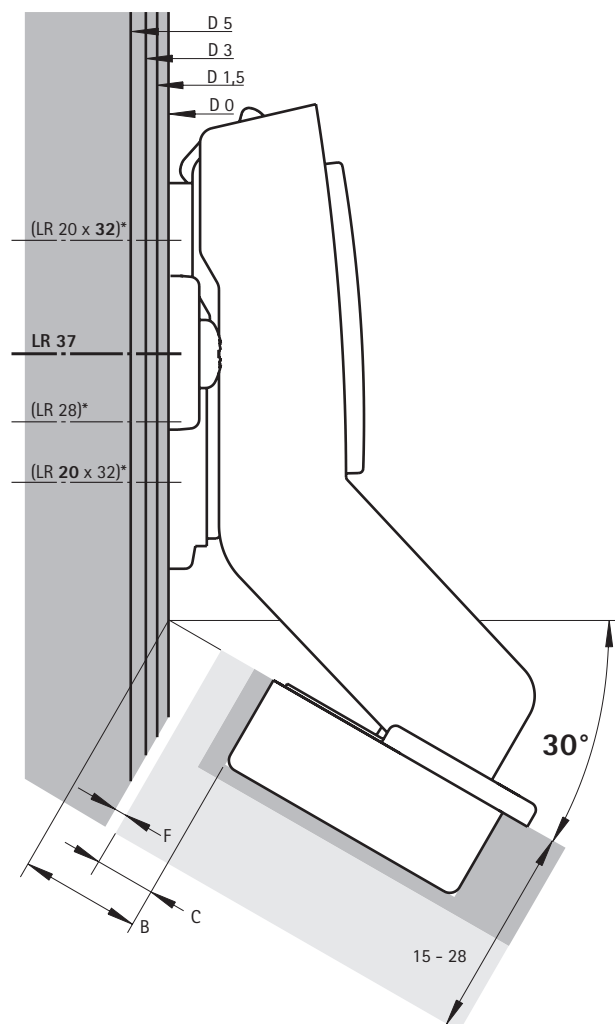
The drawings below show the hinges including mounting plate distances on a scale of 1:1. Allowing for cup distance C (3 - 8 mm) as well as the minimum reveal, the required mounting plate distance and hole line can be determined by drawing in the door and side panel.

You can visit our Hettich channel on YouTube for further information on how to configure cabinets.

Overlay (B 2 mm) - Scale 1:1



Inset (B -16 mm) - Scale 1:1

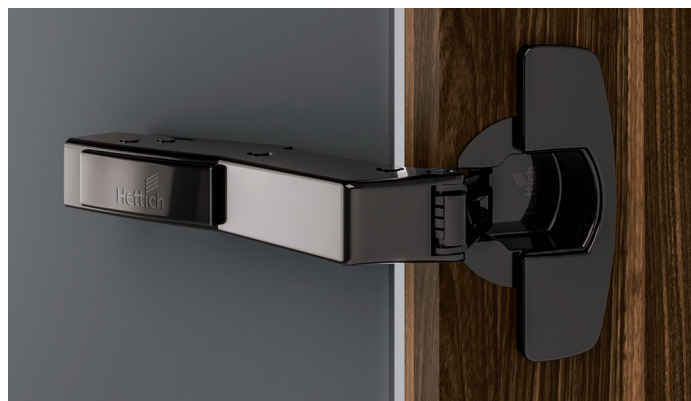


Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

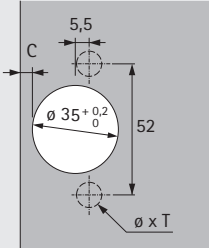
Fast assembly concealed hinge with integrated Silent System

- ▶ **Sensys 8639i W45**
- ▶ **For 45° face angle, 95° opening angle**



- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For diagonal base units, carcase angle 135°
- ▶ For door thickness 15 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ All visible parts in either nickel or obsidian black
- ▶ Hinge arm material: nickel plated steel, steel in obsidian black
- ▶ Hinge cup material: nickel plated steel, steel in obsidian black

Sensys 8639i W45, opening angle 95°

				Overlay	Inset	
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Basis B -2 mm	Basis B -25 mm	PU
For screwing on TH 52		-	Nickel	9 088 019	9 088 020	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 088 037	-	50 ea.
Fix fast installation THS 55		ø 10 x 6	Nickel	9 088 073	-	50 ea.
With premounted expanding socket TH 58		ø 10 x 11	Nickel	9 088 085	-	50 ea.
		ø 10 x 11	Obsidian Black	9 091 779	-	50 ea.



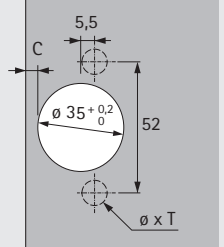
Fast assembly concealed hinge without integrated Silent System

- ▶ Sensys 8639 W45
- ▶ For 45° face angle, 95° opening angle



- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For diagonal base units, carcase angle 135°
- ▶ For door thickness 15 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8639 W45, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Overlay	Inset	PU
				 Basis B -2 mm	 Basis B -25 mm	
For screwing on TH 52		-	Nickel	9 088 103	9 088 104	50 ea.

Fast assembly concealed hinge without self closing feature

- ▶ **Sensys 8669 W45**
- ▶ **For 45° face angle, 95° opening angle**



- ▶ Hinge with clip on installation without self closing feature
- ▶ For example for Push to open applications
- ▶ Quality classification under EN 15570, Level 3
- ▶ For diagonal base units, carcase angle 135°
- ▶ For door thickness 15 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8669 W45, opening angle 95°

			Overlay		
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Basis B -2 mm	PU
For screwing on TH 52		-	Nickel	9 088 179	50 ea.



Fast assembly concealed hinge

► Sensys 8639i W45 / Sensys 8639 W45 / Sensys 8669 W45

► For 45° face angle, 95° opening angle

Minimum reveal per door

Door thick- ness mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0	8.0					
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2					
16	0.3	0.3	0.3	0.3	0.3	0.3	0.3					
17	0.4	0.4	0.4	0.4	0.4	0.4	0.4					
18	0.6	0.6	0.6	0.6	0.6	0.5	0.5					
19	0.8	0.8	0.8	0.8	0.7	0.7	0.7					
20	1.1	1.0	1.0	1.0	1.0	0.9	0.9					
21	1.4	1.3	1.3	1.3	1.2	1.2	1.2					
22	2.2	1.8	1.7	1.6	1.6	1.5	1.4					
23	3.0	2.6	2.4	2.2	2.0	1.9	1.8					
24	3.9	3.4	3.2	3.0	2.6	2.4	2.2					
25	4.8	4.2	4.0	3.8	3.4	3.0	2.8					
26	5.7	5.1	4.8	4.6	4.2	3.8	3.4					
27	6.6	6.0	5.7	5.5	5.0	4.5	4.2					
28	7.5	6.9	6.6	6.3	5.8	5.3	4.9					

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Values shown in table + 0.4 mm

Radius 3 mm:

Values shown in table - 0.6 mm

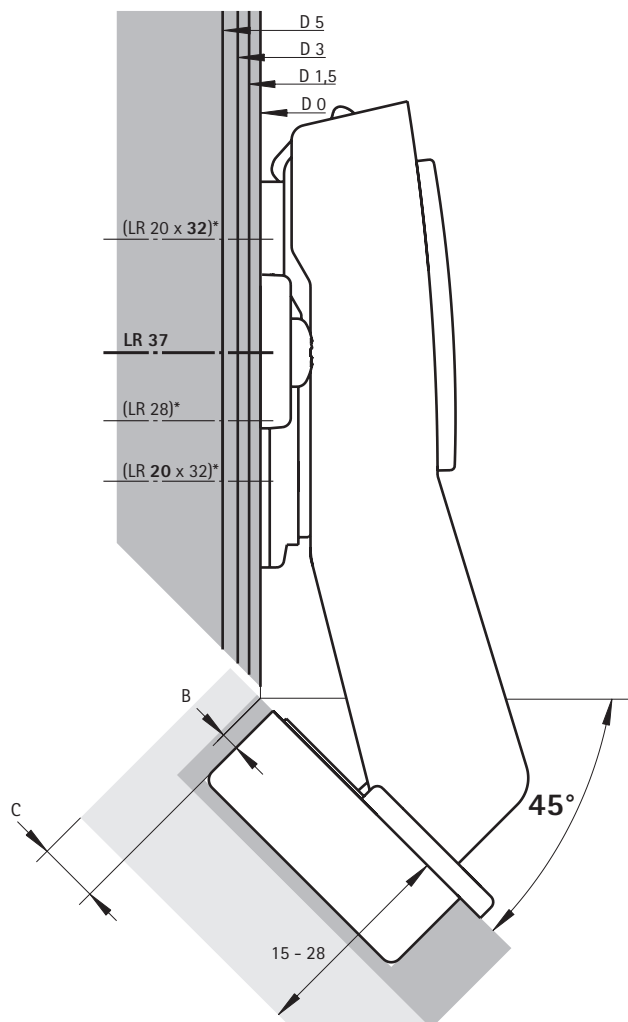
Note

The drawings below show the hinges including mounting plate distances on a scale of 1:1.

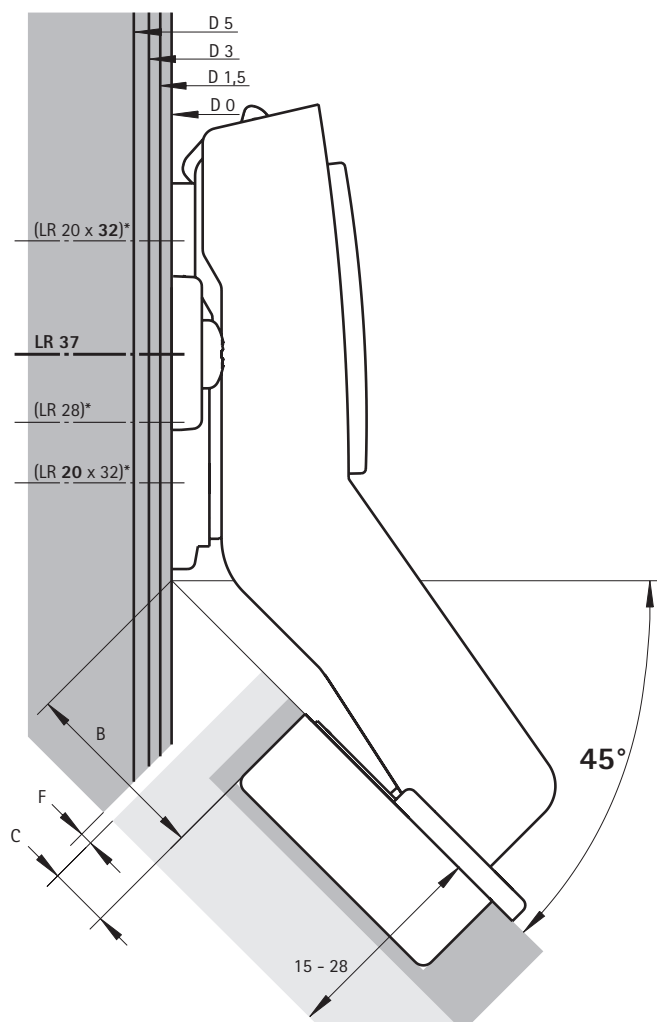
Allowing for cup distance C (3 - 8 mm) as well as the minimum reveal, the required mounting plate distance and hole line can be determined by drawing in the door and side panel.

You can visit our Hettich channel on YouTube for further information on how to configure cabinets.

Overlay (B -2 mm) - Scale 1:1



Inset (B -25 mm) - Scale 1:1



Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

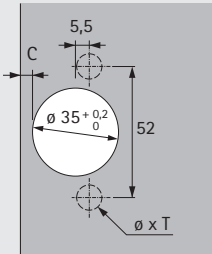
Fast assembly concealed hinge with integrated Silent System

- ▶ **Sensys 8639i W90**
- ▶ **For 90° face angle, 95° opening angle**



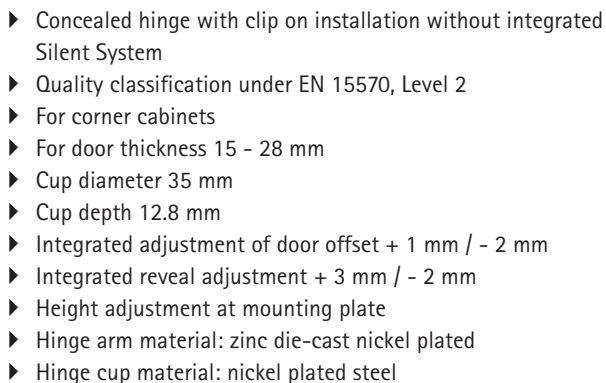
- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ Quality classification under EN 15570, Level 2
- ▶ For corner cabinets
- ▶ For door thickness 15 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated adjustment of door offset + 1 mm / - 2 mm
- ▶ Integrated reveal adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ All visible parts in either nickel or obsidian black
- ▶ Hinge arm material: nickel plated steel, steel in obsidian black
- ▶ Hinge cup material: nickel plated steel, steel in obsidian black

Sensys 8639i W90, opening angle 95°

				Inset	
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Basis B 4 mm	PU
For screwing on TH 52		-	Nickel	9 088 021	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 088 039	50 ea.
Fix fast installation THS 55		ø 10 x 6	Nickel	9 088 075	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	Nickel	9 088 087	50 ea.
		ø 10 x 11	Obsidian Black	9 091 780	50 ea.



► For 90° face angle, 95° opening angle



				Inset	
Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	Colour	Basis B 4 mm	PU
For screwing on TH 52		-	Nickel	9 088 105	50 ea.
For pressing in TH 53		$\varnothing 10 \times 11$	Nickel	9 088 123	50 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	Nickel	9 088 141	50 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 11$	Nickel	9 088 159	50 ea.

Fast assembly concealed hinge without self closing feature

- ▶ **Sensys 8669 W90**
- ▶ **For 90° face angle, 95° opening angle**



- ▶ Hinge with clip on installation without self closing feature
- ▶ For example for Push to open applications
- ▶ Quality classification under EN 15570, Level 2
- ▶ For corner cabinets
- ▶ For door thickness 15 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Integrated adjustment of door offset + 1 mm / - 2 mm
- ▶ Integrated reveal adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8669 W90, opening angle 95°

			Inset		
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Colour	Basis B 4 mm	PU
For screwing on TH 52		-	Nickel	9 088 181	50 ea.
For pressing in TH 53		ø 10 x 11	Nickel	9 088 199	50 ea.



Fast assembly concealed hinge

- Sensys 8639i W90 / Sensys 8639 W90 / Sensys 8669 W90
- For 90° face angle, 95° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0				
15	0.2	0.2	0.2	0.2	0.2	0.2				
16	0.3	0.3	0.3	0.3	0.3	0.3				
17	0.4	0.4	0.4	0.4	0.4	0.4				
18	0.6	0.6	0.6	0.6	0.6	0.5				
19	0.8	0.8	0.8	0.8	0.7	0.7				
20	1.1	1.0	1.0	1.0	1.0	0.9				
21	1.4	1.3	1.3	1.3	1.2	1.2				
22	2.2	1.8	1.7	1.6	1.6	1.5				
23	3.0	2.6	2.4	2.2	2.0	1.9				
24	3.9	3.4	3.2	3.0	2.6	2.4				
25	4.8	4.2	4.0	3.8	3.4	3.0				
26	5.7	5.1	4.8	4.6	4.2	3.8				
27	6.6	6.0	5.7	5.5	5.0	4.5				
28	7.5	6.9	6.6	6.3	5.8	5.3				

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Values shown in table + 0.4 mm

Radius 3 mm:

Values shown in table - 0.6 mm

Note

Calculation of required mounting plate distance D and hole line distance X to be observed:

Depending on the required door offset, cup distance C (3 - 7 mm) and reveal F, the dimensions can be seen in the drawing or table below.

The values stated for the hole line distance X apply when using a cross mounting plate for hole line 37.

Hole line distance X must be adjusted when using other mounting plates.

- LR 28: X - 9 mm

- LR 20 x 32: X - 17 mm / X + 15 mm

A door offset of 1 mm is recommended. Door offset can subsequently be corrected with the adjusting screw.

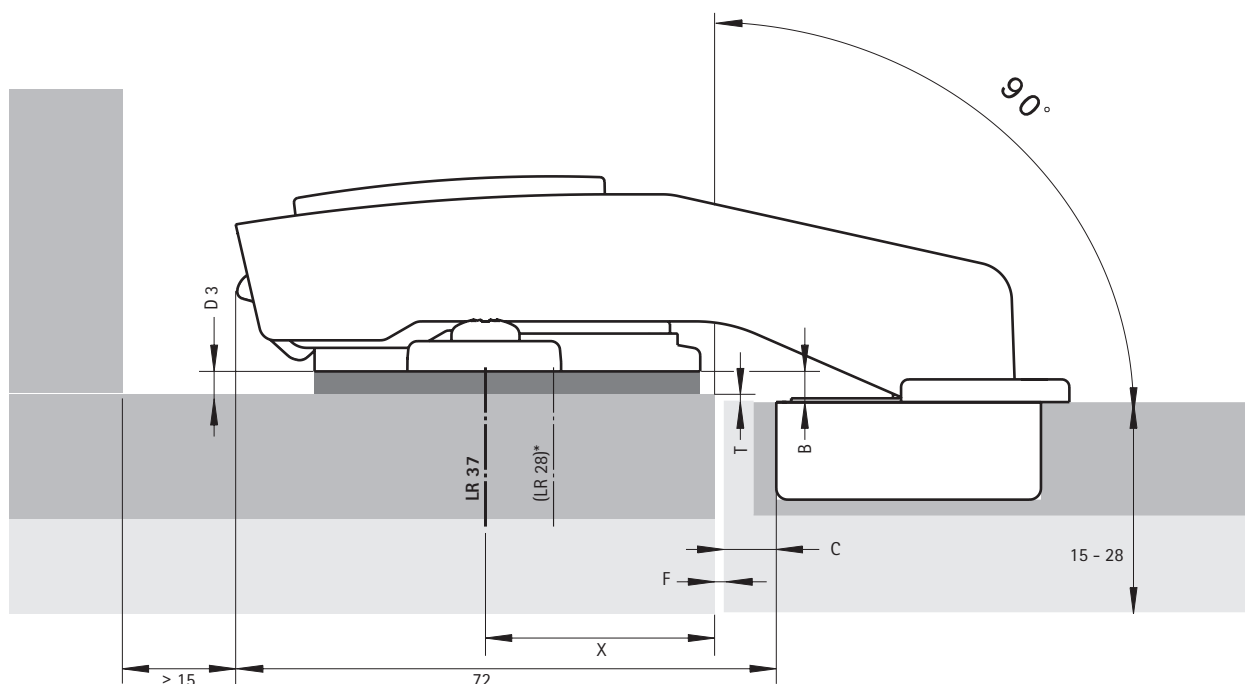
Determining hole line distance X mm when using mounting plate for hole line 37

Reveal mm	Cup distance C mm								
	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	
0.5	35.0	34.5	34.0	33.5	33.0	32.5	32.0	31.0	
1.5	34.0	33.5	33.0	32.5	32.0	31.5	31.0	30.0	
2.5	33.0	32.5	32.0	31.5	31.0	30.5	30.0	29.0	
3.5	32.0	31.5	31.0	30.5	30.0	29.5	29.0	28.0	
4.5	31.0	30.5	30.0	29.5	29.0	28.5	28.0	27.0	
5.5	30.0	29.5	29.0	28.5	28.0	27.5	27.0	26.0	
6.5	29.0	28.5	28.0	27.5	27.0	26.5	26.0	25.0	
7.5	28.0	27.5	27.0	26.5	26.0	25.5	25.0	24.0	

Inset (B 4 mm) - Scale 1:1

Distance D = 4 mm - door offset

(the recommended door offset equals 1 mm)



Useful information

- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

Fast assembly concealed hinge with integrated Silent System

- Sensys 8638i for aluminium framed doors
- 95° opening angle



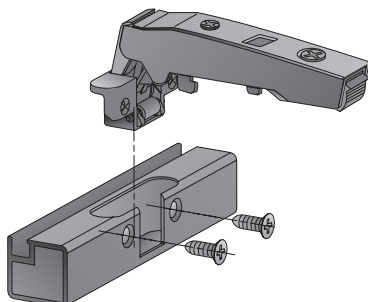
- Concealed hinge with clip on installation and integrated Silent System
- Quality classification under EN 15570, Level 3
- For 19 mm wide aluminium framed profiles
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- All visible parts in either nickel or obsidian black
- Hinge arm material: nickel plated steel, steel in obsidian black
- Hinge cup material: nickel plated steel, steel in obsidian black
- Including 2 fixing screws

Sensys 8638i, opening angle 95°

			Full overlay	Half overlay	Inset	
						
Cup assembly	Mounting hole $\varnothing \times T$ mm	Colour	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
For screwing on TA 32	-	Silver	9 072 524	9 072 525	9 072 526	50 ea.
		Obsidian Black	9 091 744	-	-	50 ea.



- ▶ Sensys 8638i
- ▶ 95° opening angle



Technical drawing of a 95° V-block. The drawing shows a cross-section of the block with a 95° angle. Dimensions are indicated: H is the height of the block, 72 is the height of the block, and T is the thickness of the block.

Door mounting option	H mm	T mm
Full overlay	25.0	8.0
Half overlay	31.0	17.5
Inset	38.0	24.5

Distance D

Side panel

Overlay A

Reveal F ($F \geq 1,6 \text{ mm}$)

Door

[illegible]

Technical drawing of a door assembly showing side panel, overlay A, and door with dimensions Distance D and 2 x reveal F ($F \geq 1,6 \text{ mm}$).

[illegible]

Technical drawing of a door profile showing dimensions Distance D and Reveal F ($F \geq 1,6 \text{ mm}$).

[illegible]

- ▶ For mounting plates and accessories, see page 88 – 95
- ▶ For example applicatons, fitting information, installation notes and quality criteria, see page 40 – 54

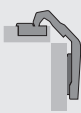
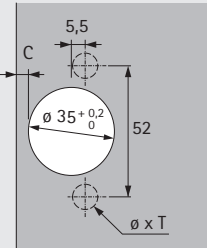
Fast assembly concealed hinge

- ▶ Intermat 9930 with cup in Sensys design for corner cabinet folding doors
- ▶ 50° / 65° opening angle



- ▶ Concealed hinge with clip on installation
- ▶ Quality classification under EN 15570, Level 2
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Diagonal adjustment + 9.5 mm / - 9.5 mm
- ▶ Integrated overlay adjustment, see sketch
- ▶ For integrated height adjustment, see sketch
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Intermat 9930, opening angle 50° / 65°

			Overlay	
Cup assembly	Drilling pattern	Mounting hole ø x T mm		PU
For screwing on TH 52		-	9 090 109	50 ea.
For pressing in TH 53		ø 10 x 11	9 090 110	50 ea.
Fix fast installation THS 55		ø 10 x 6	9 090 113	50 ea.
With premounted expanding sockets TH 58		ø 10 x 11	9 090 107	50 ea.



Fast assembly concealed hinge

- ▶ Intermat 9930 with cup in Sensys design for corner cabinet folding doors
- ▶ 50° / 65° opening angle

Version A - Cup drill holes in one door

- ▶ All cup drillings in one door
- ▶ Hairline reveal can be provided between door units
- ▶ No cutaway in cup holes necessary
- ▶ Same door width for both elements
- ▶ Diagonal adjustment capability for easy adjustment to door thickness
- ▶ Same cup distance on both sides of side mounted door
- ▶ Hole line distance of 37 mm in the folding door panel
- ▶ For door thickness 16 - 21 mm
- ▶ Cup distance C 3 - 6 mm

Version B - Cup drill holes in both doors

- ▶ Both door units are the same
- ▶ No cutaway in cup holes necessary
- ▶ Diagonal adjustment capability for easy adjustment to door thickness
- ▶ Hole line distance of 41 mm in the side mounted door
- ▶ For door thickness 16 - 21 mm
- ▶ Cup distance C 3 - 6 mm

Version A - Calculation of door width

Door width = carcase width - reveal F - door thickness

Version B - Calculation of door width

Door width = carcase width - reveal F - door thickness - 5 mm

Version A - Calculation of mounting plate distance

For cup distance C = 4.5 mm: Distance D = 0 mm

For cup distance C = 3.0 mm: Distance D = 1.5 mm

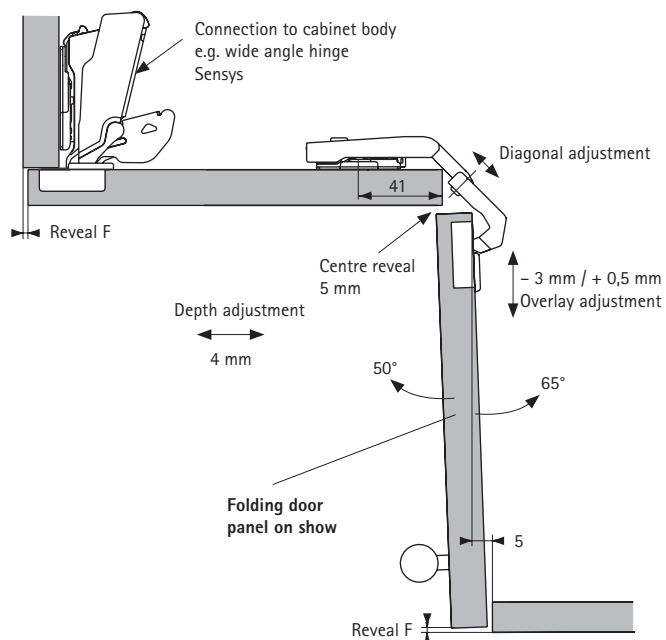
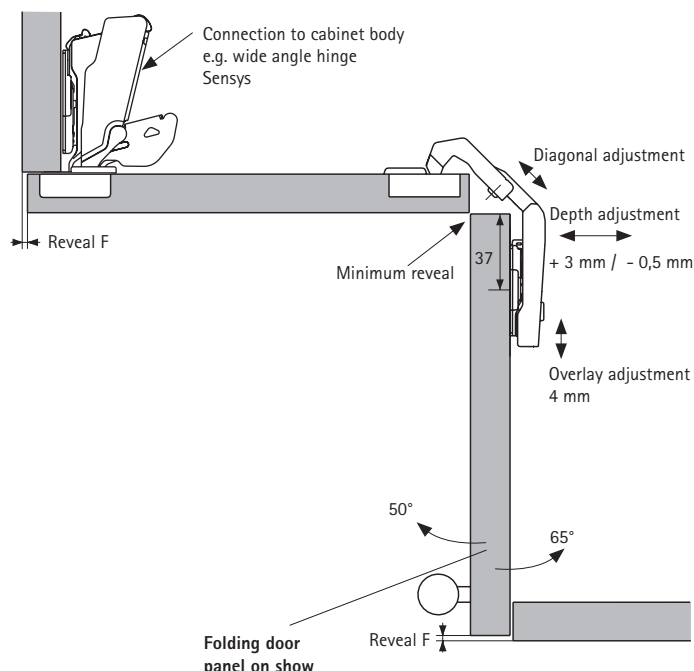
Differing cup distances can be evened out by depth and diagonal adjustment capability.

Version B - Calculation of mounting plate distance

For cup distance C = 4.5 mm: Distance D = 0 mm

For cup distance C = 3.0 mm: Distance D = 1.5 mm

Differing cup distances can be evened out by depth and diagonal adjustment capability.



Useful information

- ▶ For mounting plates and accessories, see page 88 - 95
- ▶ For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

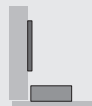
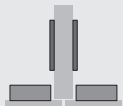
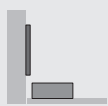
Fast assembly concealed hinge

- ▶ Adapter for glue mounting
- ▶ For Sensys



- ▶ Adapter for glue mounting Sensys
- ▶ Quality classification defined by the hinges used
- ▶ For use with
 - Sensys 8645i, B -4 mm, TH 52
 - Sensys 8631i, B -4 mm, TH 52
 - Sensys 8657i, B 3 mm, TH 52
 - the relevant product version without integrated Silent System, or without self closing feature, can be used in the same way
- ▶ For glass doors
- ▶ For glass thicknesses 3 - 7 mm
- ▶ For use with UV hardening adhesive
- ▶ Supplied without adhesive
- ▶ Material: zinc die-cast nickel plated

Adapter for glue mounting Sensys

		Full overlay	Half overlay	Inset	
	Cup				PU
Sensys 8657i B 3 mm, 165° opening angle	TH 52	9 099 550	9 099 550	-	50 ea.
Sensys 8631i B -4 mm, 95° opening angle	TH 52	-	-	9 091 420	50 ea.
Sensys 8645i B -4 mm, 110° opening angle	TH 52	-	-	9 071 207	200 ea.
Adapter (small pack, including fixing -screws)	TH	9 081 923	9 081 923	9 081 923	2 ea.



Fast assembly concealed hinge

- Adapter for glue mounting
- For Sensys

Gluing dimension K

Gluing dimension K	A	F	D1.5	D3	D5	D8
Inset		2	2.5	4		
Full overlay /	0					4
Half overlay	1				2	5
	2				3	6
	3				4	7
	4				5	8
	5				6	9
	6				7	10
	7				8	11
	8				9*	12*
	9				10*	13*
	10				11*	14*
	11				12*	15*
	12				13*	16*
	13				14*	17*
	14				15*	18*
	15				16*	19*
	16				17*	20*
	17				18*	21*
	18				19*	22*
	19				20*	23*

Abbreviations

K = gluing dimension

A = overlay

F = reveal

D = distance

T = door thickness

X = hole line

■ Sensys 8645i or 8631i

■ Sensys 8631i

■ Sensys 8657i

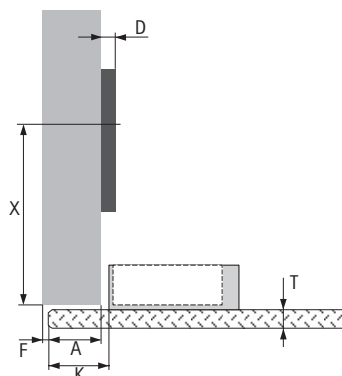
*Only for use with the opening angle limited to 120°

Minimum reveal per door

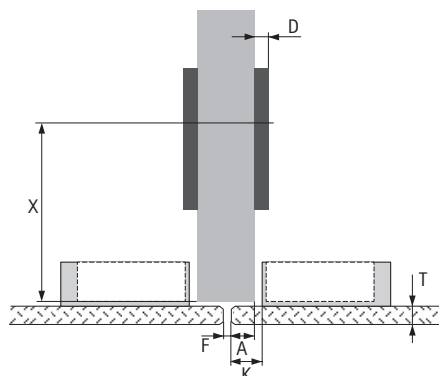
When dimensioning the door mounting, allowance must be made for a minimum reveal of 2 mm per door.

The edges of the glass door should be finished

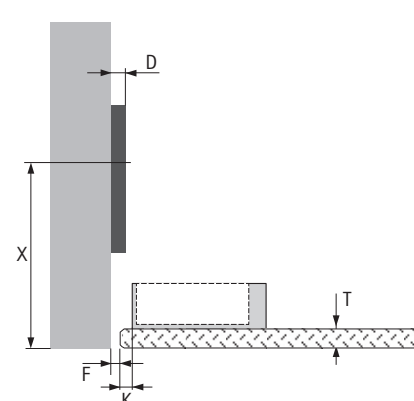
Full overlay



Half overlay



Inset



Hole line distance X

Door mounting option	Mounting plate		
	LR 37	(LR 28)*	(LR 20 x 32)*
Full overlay	50 mm	41 mm	33 mm**
Half overlay	50 mm	41 mm	33 mm**
Inset	T + 52 mm	T + 43 mm	T + 35 mm**

* Not available in all markets

** Space for front drilling position in 32 mm hole line pattern

Fitting information

The adapter must be glued to a glass door by a specialised fabricator who must also select an adhesive and gluing method suitable for the door's specific properties. Details on the exact size and finish of the surface for gluing the adapter to are shown in the installation notes provided with the product. Hettich accepts no responsibility for gluing the adapter on correctly.

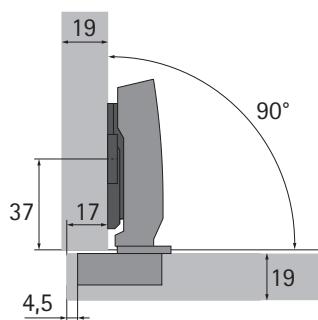
For safety reasons, the hinge cup must only be screwed on using the fixing screws offered. Two screws are required per hinge.

Useful information

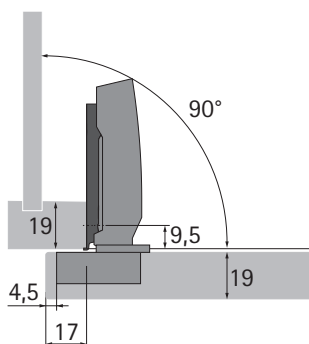
- For mounting plates and accessories, see page 88 - 95
- For example applications, fitting information, installation notes and quality criteria, see page 40 - 54

- Example applications
- For Sensys

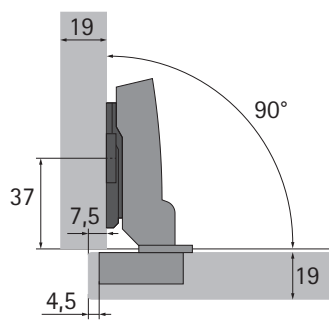
Example applications



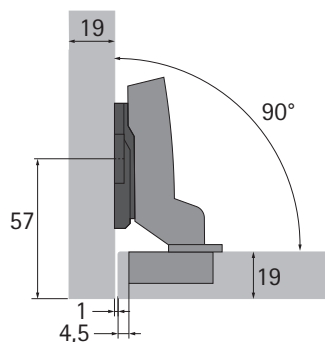
Sensys 8645i B12,5
For inset front panel
Mounting plate distance = 0 mm



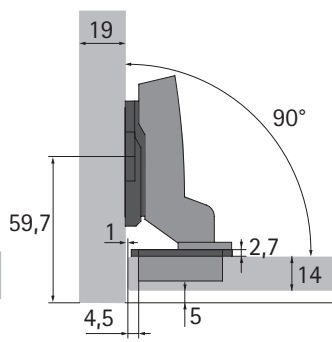
Sensys 8645i B12,5
For inset front panel
Face-frame mounting plate
Distance = 0 mm



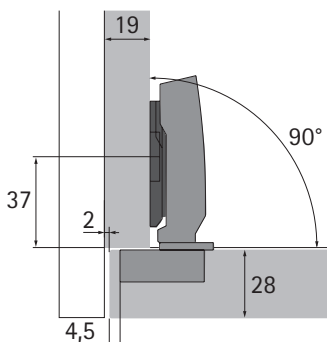
Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm



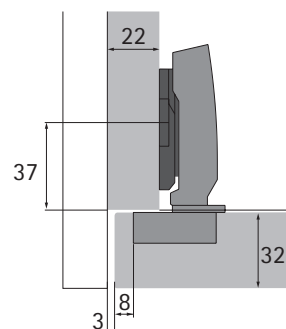
Sensys 8645i B-4
For inset front panel
Mounting plate distance = 1,5 mm



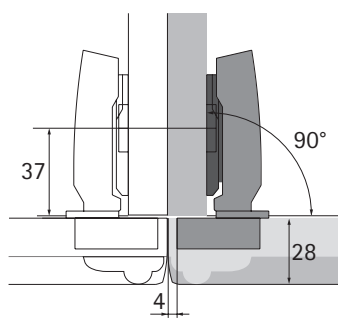
Sensys 8645i B-4
For inset front panel
Mounting plate distance = 1,5 mm
Cup adapter 2,7 mm



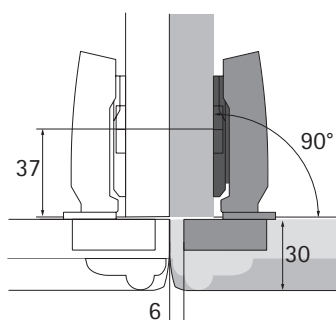
Sensys 8631i B12,5
For narrow gaps between thick doors
For inset front panel
Mounting plate distance = 0 mm



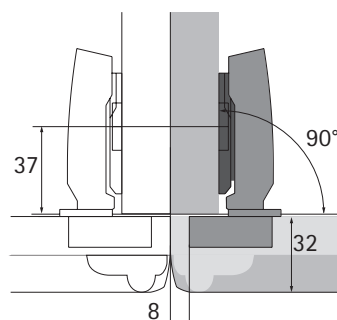
Sensys 8631i B12,5
For narrow gaps between thick doors
For inset front panel
Mounting plate distance = 1,5 mm



Sensys 8631i B12,5
Thick door with minimum
reveal application
For inset front panel
Mounting plate distance = 0 mm



Sensys 8631i B12,5
Thick door with minimum
reveal application
For inset front panel
Mounting plate distance = 0 mm



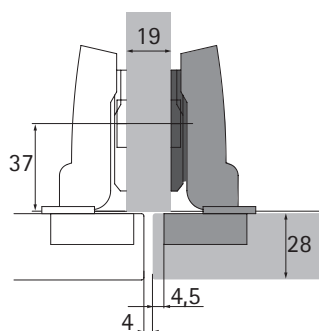
Sensys 8631i B12,5
Thick door with minimum
reveal application
For inset front panel
Mounting plate distance = 0 mm



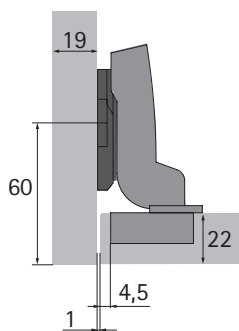
Technical information

- Example applications
- For Sensys

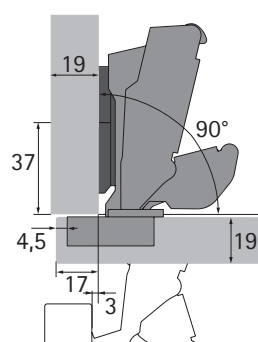
Example applications



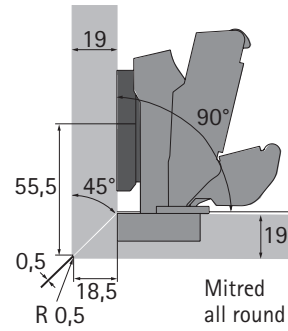
Sensys 8631i B3
For narrow gaps between thick doors
For half overlay front panel
Mounting plate distance = 0 mm



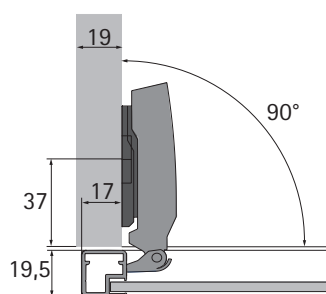
Sensys 8631i B-4
Thick door hinge
For inset front panel
Mounting plate distance = 1,5 mm



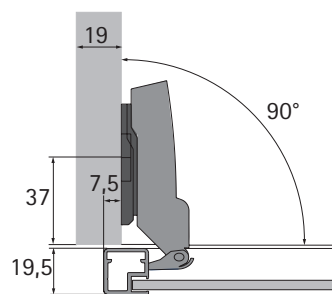
Sensys 8657i B12,5
Zero protrusion hinge
For overlay front panel
Mounting plate distance = 0 mm



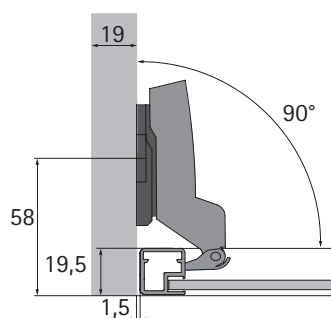
Sensys 8657i B3
Zero protrusion hinge
For half overlay front panel
Mounting plate distance = 3 mm



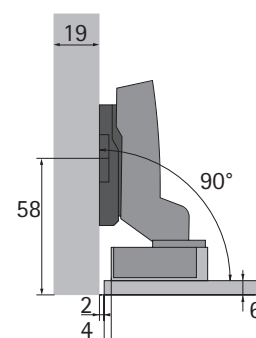
Sensys 8638i B12,5
Aluminium frame hinge
For overlay front panel
Mounting plate distance = 0 mm



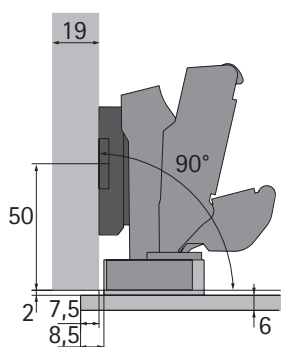
Sensys 8638i B3
Aluminium frame hinge
For half overlay front panel
Mounting plate distance = 0 mm



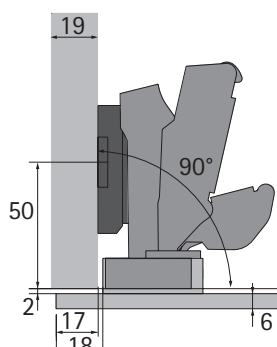
Sensys 8638i B-4
Aluminium frame hinge
For inset front panel
Mounting plate distance = 1,5 mm



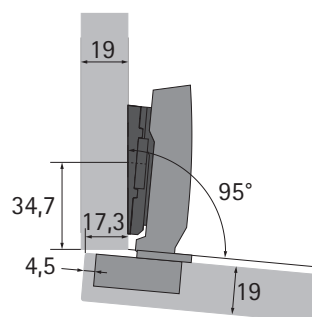
Sensys 8645i B-4
With adapter for glue mounting
For inset front panel
Mounting plate distance = 3 mm



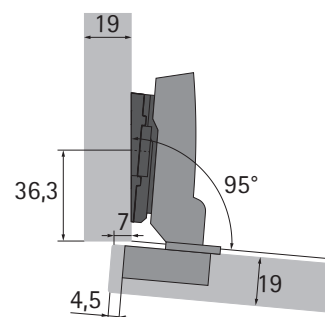
Sensys 8657i B3
With adapter for glue mounting
For half overlay front panel
Mounting plate distance = 5 mm
Opening angle limiter 120°



Sensys 8657i B3
With adapter for glue mounting
For half overlay front panel
Mounting plate distance = 5 mm
Opening angle limiter 120°



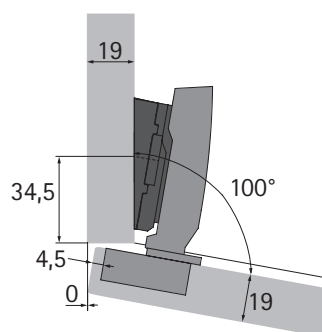
Sensys 8645i B12,5
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°



Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°

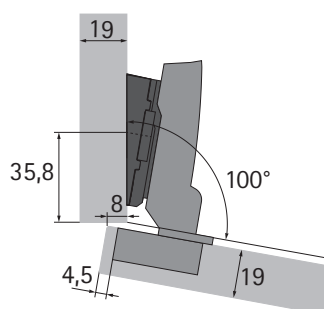
- Example applications
- For Sensys

Example applications



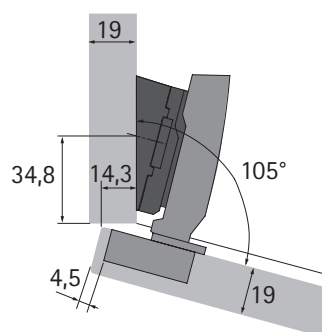
Sensys 8645i B12,5

For overlay front panel
Mounting plate distance = 1,5 mm
Angle adapter 10°



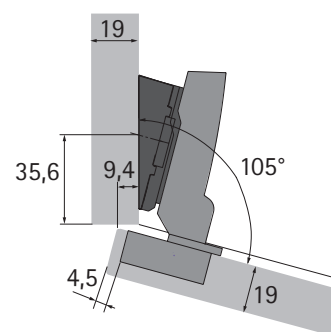
Sensys 8645i B3

For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 10°



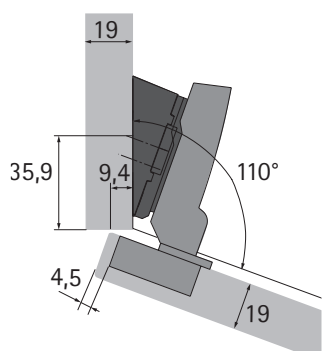
Sensys 8645i B12,5

For overlay front panel
Mounting plate distance = 3 mm
Angle adapter 15°



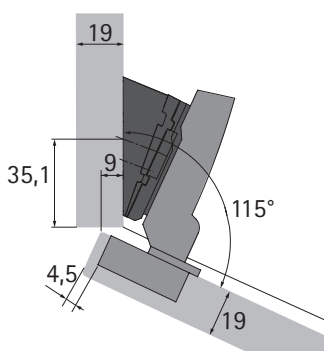
Sensys 8645i B3

For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 15°



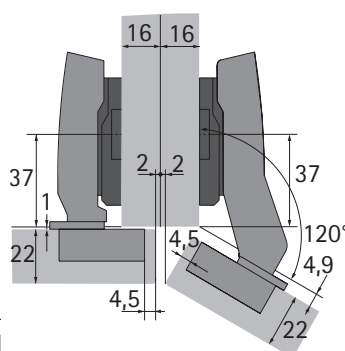
Sensys 8645i B3

For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 20°



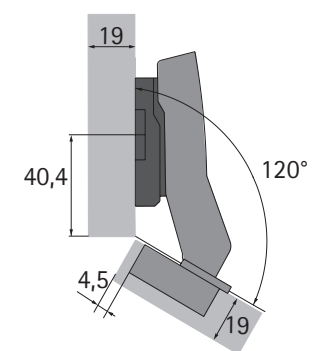
Sensys 8645i B3

For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 20° and 5°



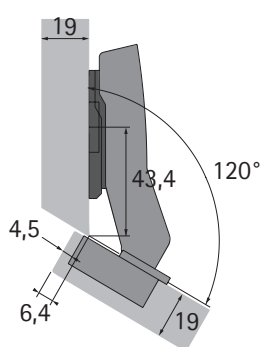
Sensys 8639i W30 B2 Sensys 8645i B12,5

For overlay front panel
Mounting plate distance = 3 mm



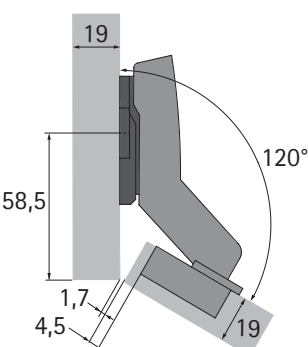
Sensys 8639i W30 B2

For overlay front panel
Mounting plate distance = 5 mm



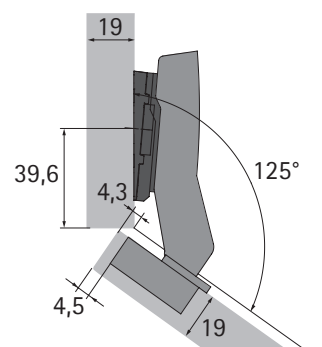
Sensys 8639i W30 B2

For overlay front panel
Mounting plate distance = 0 mm



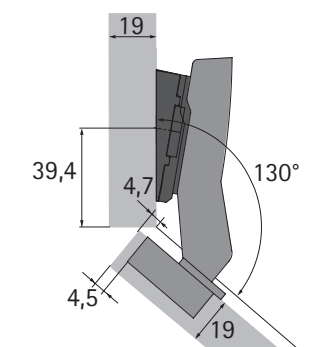
Sensys 8639i W30 B-16

For inset front panel
Mounting plate distance = 1,5 mm



Sensys 8639i W30 B2

For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°



Sensys 8639i W30 B2

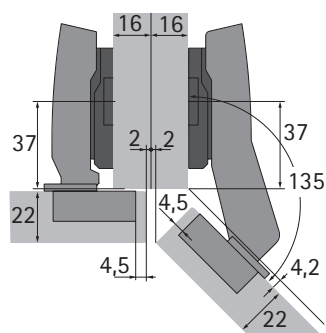
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 10°



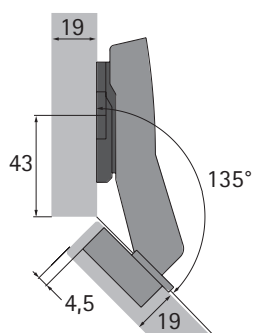
Technical information

- Example applications
- For Sensys

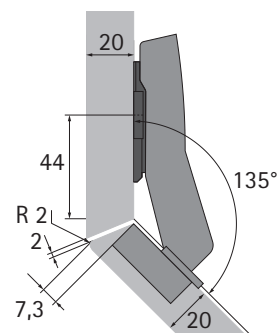
Example applications



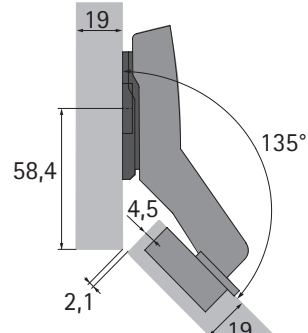
Sensys 8639i W45 B-2
Sensys 8645i B12,5
 For overlay front panel
 Mounting plate distance = 3 mm



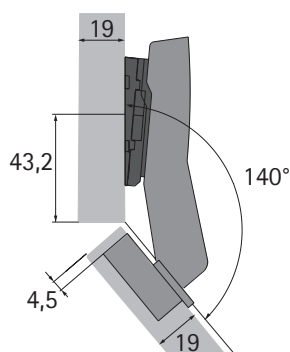
Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 1,5 mm



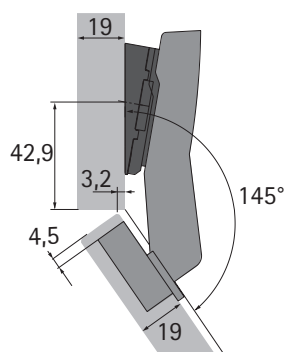
Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 0 mm



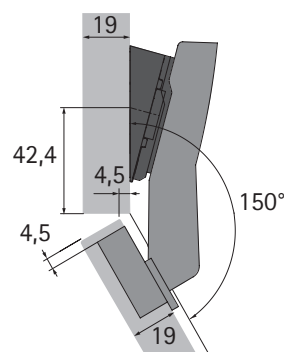
Sensys 8639i W45 B-25
 For inset front panel
 Mounting plate distance = 0 mm



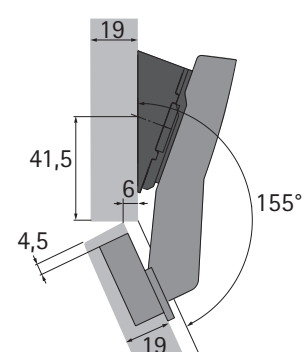
Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 0 mm
 Angle adapter 5°



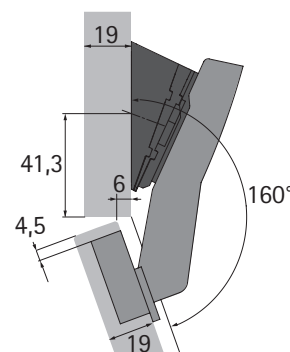
Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 0 mm
 Angle adapter 10°



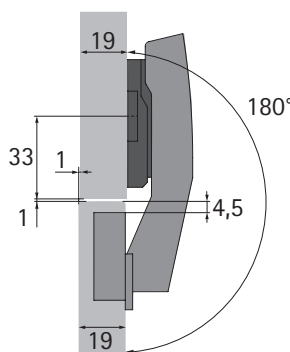
Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 0 mm
 Angle adapter 15°



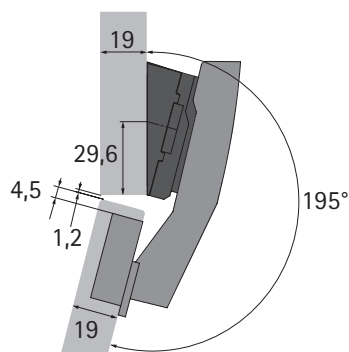
Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 0 mm
 Angle adapter 20°



Sensys 8639i W45 B-2
 For overlay front panel
 Mounting plate distance = 0 mm
 Angle adapter 20° and 5°



Sensys 8639i W90 B4
 For inset front panel
 Mounting plate distance = 3 mm

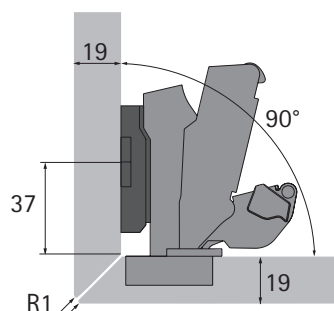


Sensys 8639i W90 B4
 For inset front panel
 Mounting plate distance = 3 mm
 Angle adapter 15°

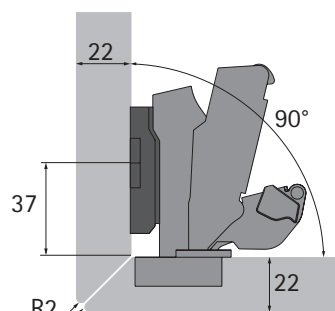
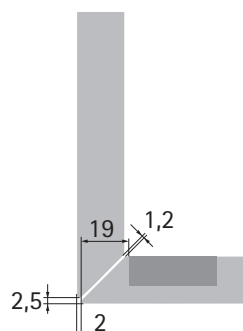
Technical information

- ▶ Example applications
- ▶ For Sensys

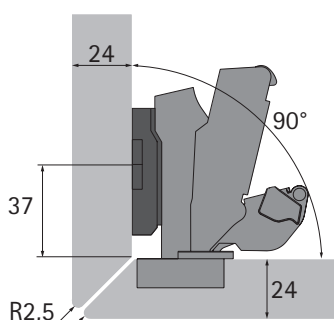
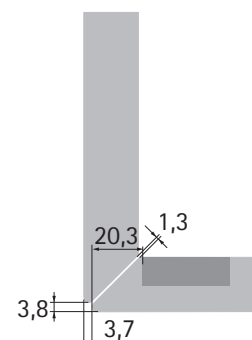
45° mitred all round



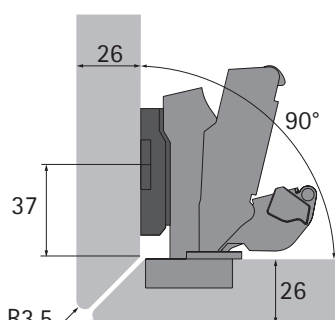
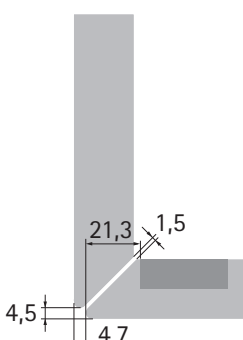
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



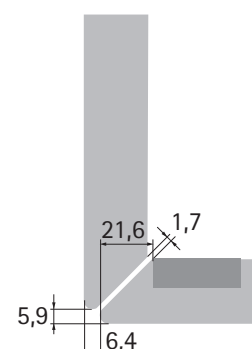
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



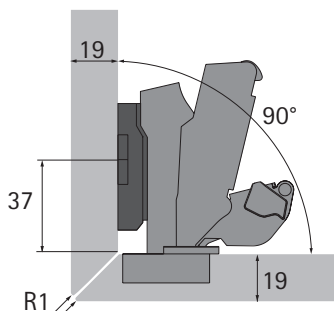
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



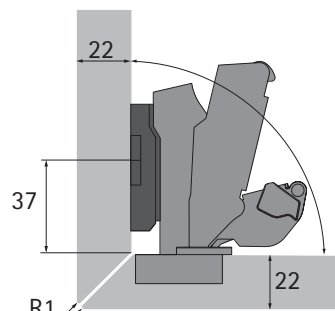
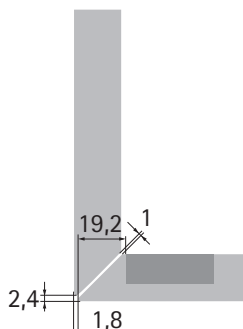
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



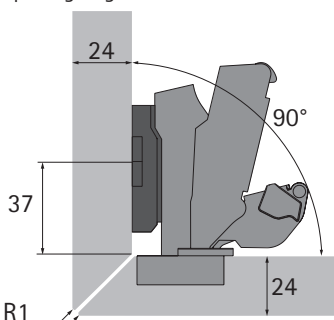
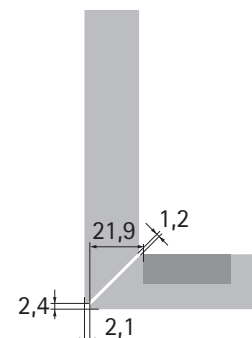
Side mitring



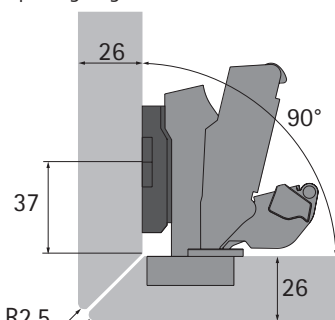
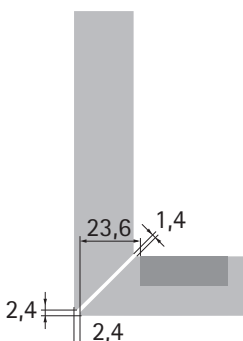
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



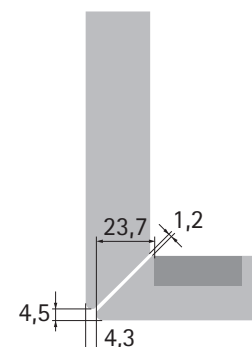
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



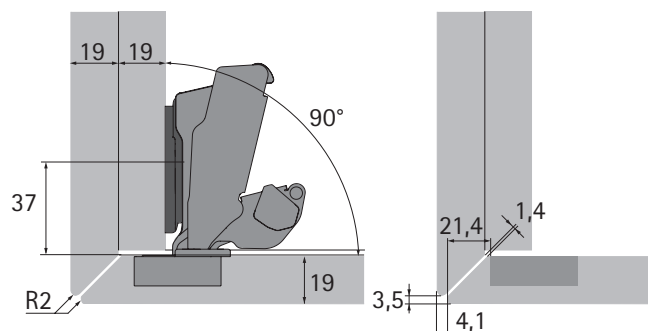
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



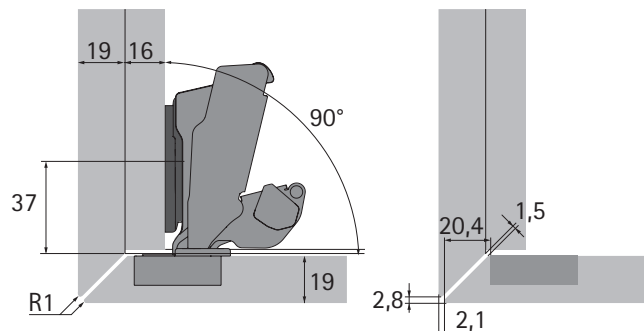
Technical information

- Example applications
- For Sensys

Mitred all round with internal facing panel

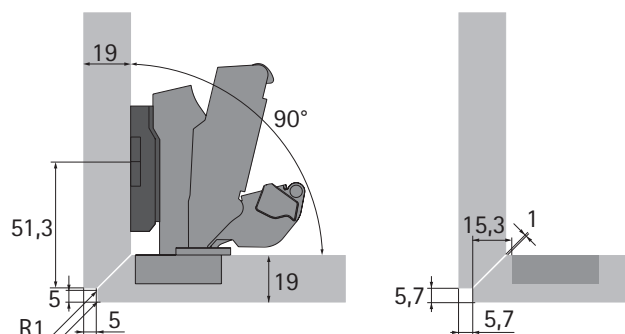


Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0
 Opening angle limiter: 120°
 Side panel thickness additional panel: 19 mm

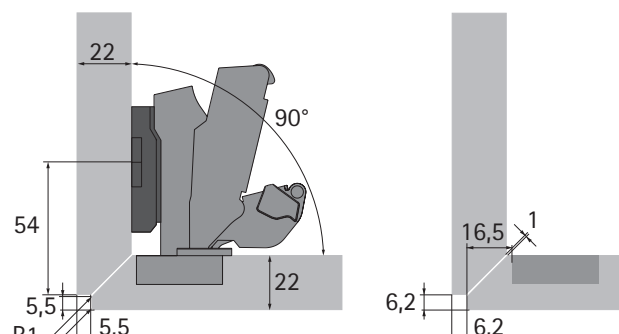


Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0
 Opening angle limiter: 135°
 Side panel thickness additional panel: 19 mm

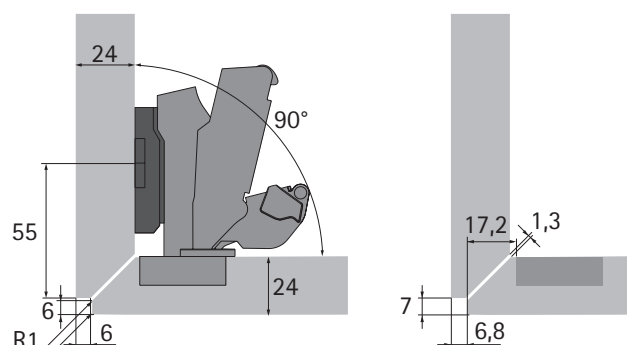
Mitred all round with cut out rebate



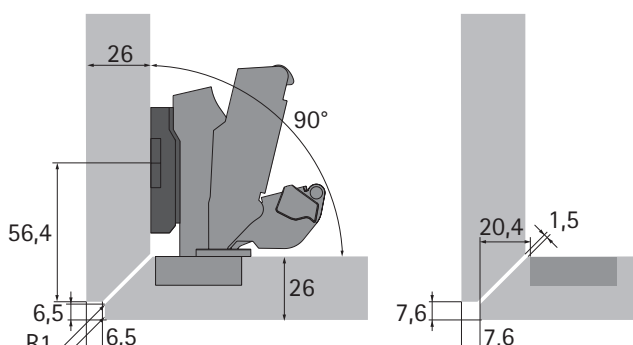
Sensys 8657i B3
 Mounting plate: 8099 LR37 D5
 Opening angle limiter: 135°



Sensys 8657i B3
 Mounting plate: 8099 LR37 D3
 Opening angle limiter: 135°



Sensys 8657i B3
 Mounting plate: 8099 LR37 D5
 Opening angle limiter: 135°

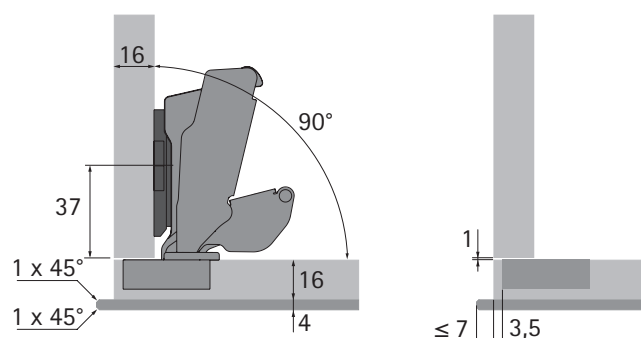


Sensys 8657i B3
 Mounting plate: 8099 LR37 D5
 Opening angle limiter: 135°

Technical information

- Example applications
- For Sensys

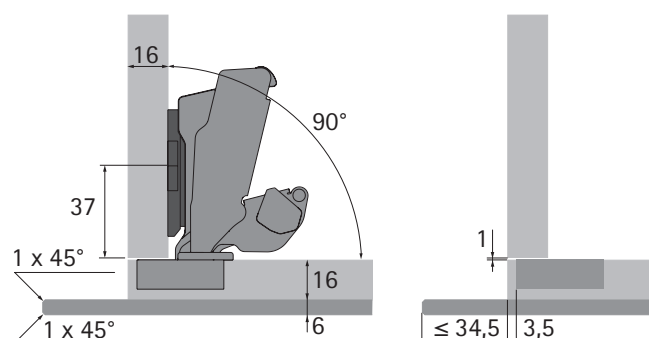
Projecting thin materials



Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0

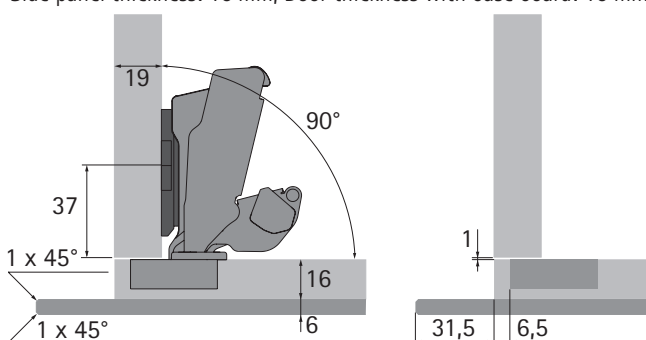
Side panel thickness: 16 mm, Door thickness with base board: 16 mm



Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0, Opening angle limiter: 120°

Side panel thickness: 16 mm, Door thickness with base board: 16 mm

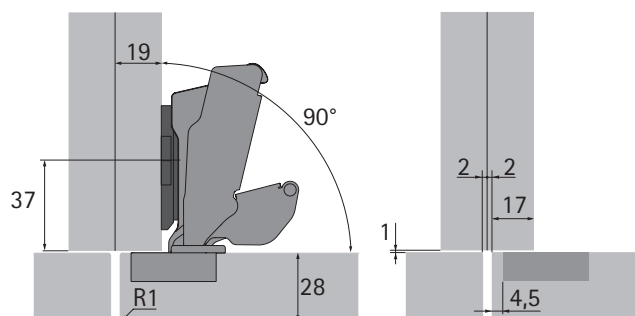


Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0, Opening angle limiter: 120°

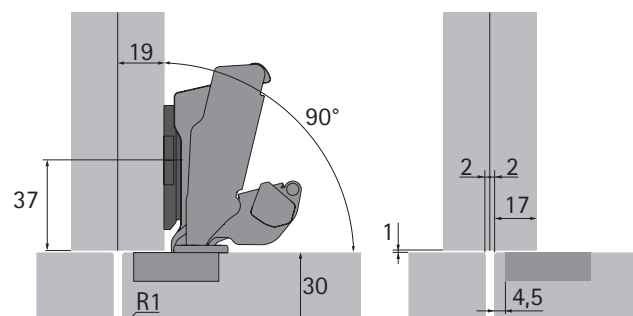
Side panel thickness: 19 mm, Door thickness with base board: 16 mm

Thick doors



Sensys 8657i B12,5

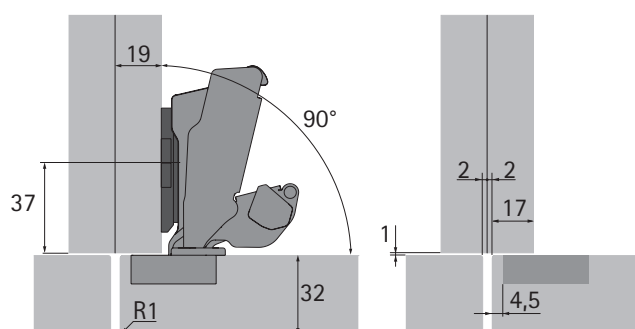
Mounting plate: 8099 LR37 D0



Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0

Opening angle limiter: 120°



Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0

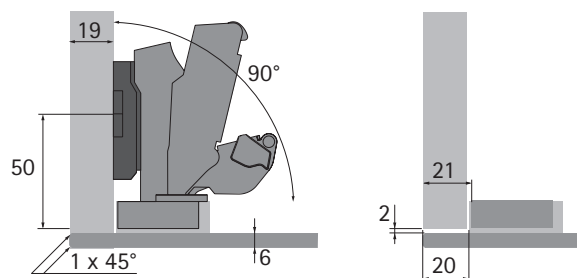
Opening angle limiter: 105°



Technical information

- Example applications
- For Sensys

Glass doors



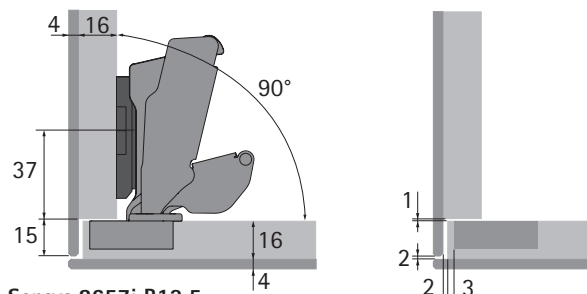
Sensys 8657i B3

Mounting plate: 8099 LR37 D5

Opening angle limiter: 135°

Adapter: yes

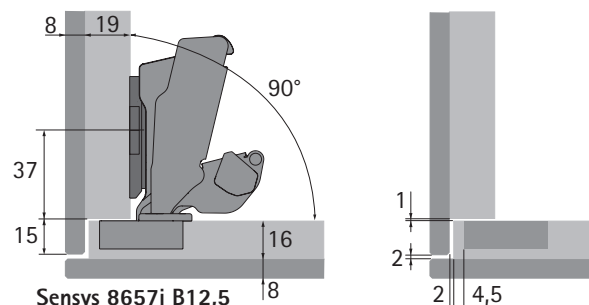
Lined materials



Sensys 8657i B12,5

Mounting plate: 8099 LR37 D1,5

Side panel thickness: 16 mm



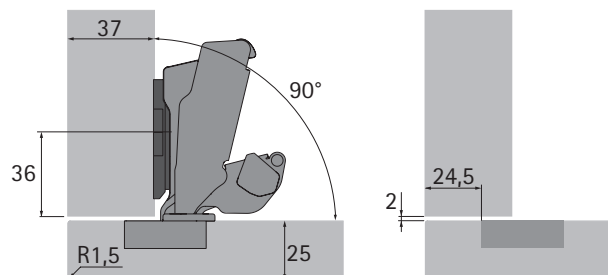
Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0

Opening angle limiter: 135°

Side panel thickness: 19 mm

Maximum door reveal



Sensys 8657i B12,5

Mounting plate: 8099 LR37 D0

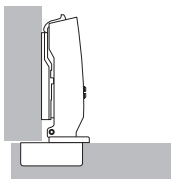
Opening angle limiter: 105°

Side panel thickness: 37 mm

Technical information

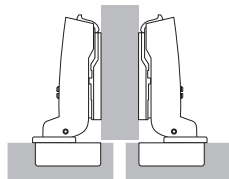
- Sensys
- Fitting information

Full overlay door



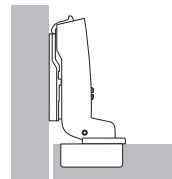
The door is in front of the carcass side and only a small gap remains at the side within which the door can open reliably. Alternatively, the door can also be overlaid fully. In this case sufficient space must be allowed at the side for the required minimum reveal. Straight hinges are used.

Half overlay door



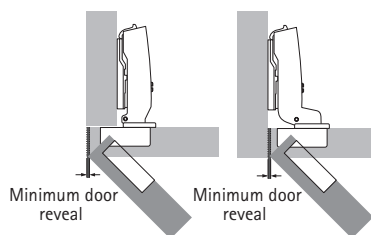
This is where two doors are positioned in front of a cabinet centre panel, with the required overall reveal between them (at least 2 x minimum reveal). In other words, each door has a smaller overlay and cranked hinges are therefore used.

Inset door



The door is positioned inside the carcass, i.e. next to the carcass side. Here too, a gap is needed so that the door can open reliably. Highly cranked hinges are used here. For an inset door, the mounting plate must be set back by the door thickness + 1 mm as well as by any any chosen door offset.

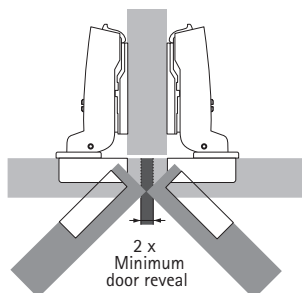
Minimum reveal



For full overlay and inset doors

The minimum reveal (also known as the door clearance or minimum clearance) is the space required at the side so that the door can open. The size of the minimum reveal depends on the cup distance C, the door thickness and the type of hinge selected. Radii on the door edges reduce the door

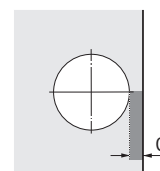
Minimum reveal



For half overlay doors

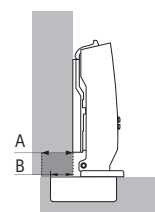
The total reveal selected between the doors must be at least twice the door clearance. Both doors can then be opened at the same time.

Cup distance C



Cup distance C is the distance between the door edge and the edge of the cup drilling. The greater the distance selected for cup distance C, the smaller door clearance

Overlay / Base



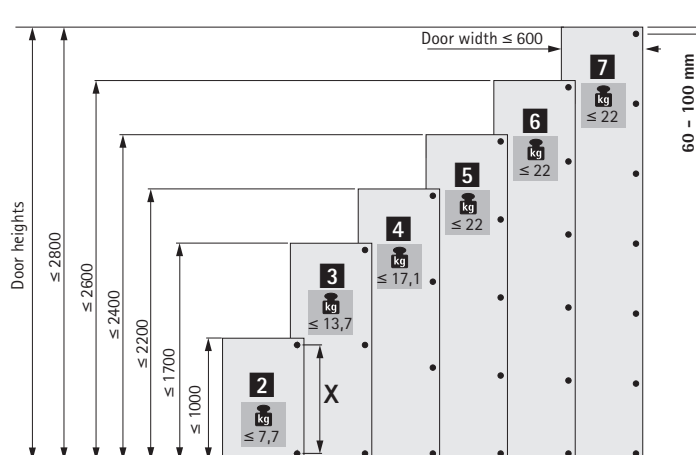
A = Overlay
B = Base

Overlay refers to the projection of the door in front of the carcass side. Base refers to the projection of the cup in front of the carcass side for a mounting plate dis-

Number of hinges per door

Door width, height and weight as well as the material quality of the door are decisive factors determining the number of hinges required.

The factors encountered in practice differ widely from case to case. For this reason, the number of hinges specified in the diagram must be understood as a guide only. If in doubt, it is recommended to carry out a trial mounting and adjust the number of hinges as necessary. For reasons of stability, space X between the hinges must always be made



Technical information

- Sensys
- Fitting information

General calculation of distances

Mounting plates are available in various distances. The effective height of the mounting plate is defined by distance D. Distance D is embossed on the top of each mounting plate. A larger distance D reduces overlay for full and half overlay applications. On inset doors, a larger distance

D increases the door reveal. Before determining the required distance, check whether the desired reveal is equal to or greater than the required minimum reveal. If the desired reveal is less than the required minimum reveal, the required minimum reveal can be reduced by

Calculation of distances

For full overlay and half overlay doors

The required distance D can be determined after checking the minimum reveal. Ideally, the door reveal and cup distance should be selected to produce a distance D that is available as mounting plate.

Example: Working out distances according to the table

Overlay = 14 mm and cup distance C = 4.5 mm yield a distance D equal to 3.0 mm.

Example: Working out distances using the calculation formula

Hinge for full overlay door, base B = 12.5 mm

Distance D = Cup distance C + base B - overlay A

Distance D = 4.5 mm + 12.5 mm - 14 mm = 3.0 mm

Intermediate distances not available as mounting plate distances are achieved by adjusting the hinge overlay.

Overlay mm	Cup distance C mm					
	3,0	4,0	4,5	5,0	6,0	7,0
	Distance D mm					
10	5,5	6,5	7,0	7,5	8,5	9,5
11	4,5	5,5	6,0	6,5	7,5	8,5
12	3,5	4,5	5,0	5,5	6,5	7,5
13	2,5	3,5	4,0	4,5	5,5	6,5
14	1,5	2,5	3,0	3,5	4,5	5,5
15	0,5	1,5	2,0	2,5	3,5	4,5
16		0,5	1,0	1,5	2,5	3,5
17			0,0	0,5	1,5	2,5
18					0,5	1,5
19						0,5

Calculation of distances

For inset doors

When calculating the mounting plate distance using the table for the inset, allowance is automatically made for the reveal to be designated as the minimum reveal in relation to cup distance C and the door thickness in the minimum reveal table. If a reveal is to be produced that is larger than this minimum reveal, select a mounting plate distance of the appropriate size.

Example: Working out distances according to the table

According to the table, a door thickness = 20 mm and cup distance C = 4.5 mm produce

a mounting plate distance of 1.5 mm. This gives the required minimum reveal, for example, of 1 mm. If a reveal of 2.5 mm is preferred instead, select a mounting plate distance which is 1.5 mm larger. In this example, therefore, a distance of 3 mm instead of 1.5 mm.

Example: Working out distances using the calculation formula

Hinge for inset application, base value B = - 4 mm

Distance D = cup distance C + base B + reveal F

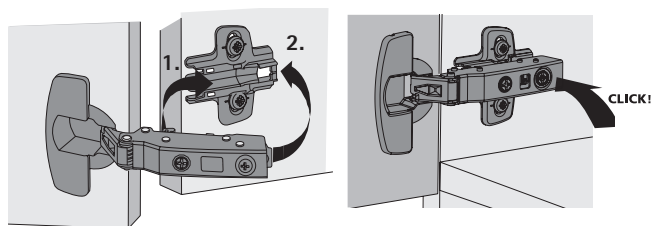
Distance D = 4.5 mm - 4 mm + 1 mm = 1.5 mm

Door thickness mm	Cup distance C mm					
	3,0	4,0	4,5	5,0	6,0	7,0
	Distance D mm					
15		0,2	0,7	1,2	2,2	3,2
16		0,3	0,8	1,3	2,3	3,3
17		0,4	0,9	1,4	2,4	3,4
18		0,6	1,1	1,6	2,6	3,5
19		0,8	1,3	1,8	2,7	3,7
20	0,1	1,0	1,5	2,0	3,0	3,9
21	0,4	1,3	1,8	2,3	3,2	4,2
22	1,2	1,8	2,2	2,6	3,6	4,5

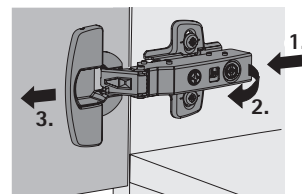
Technical information

- Sensys
- Installation notes

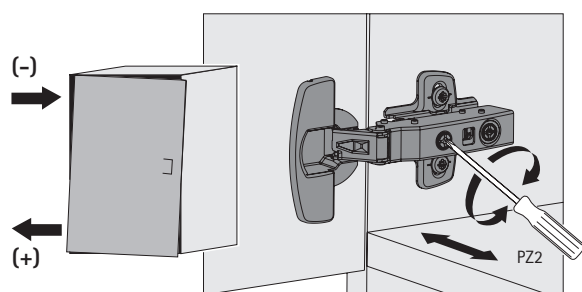
Installation



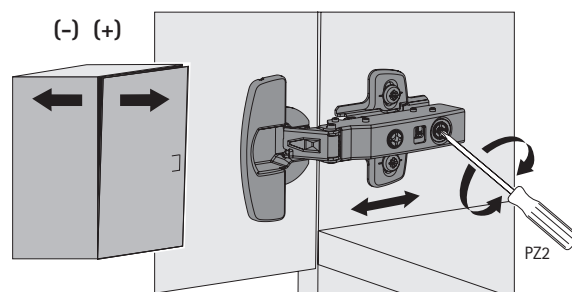
Removal



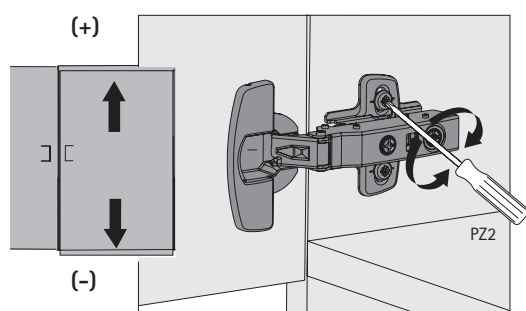
Overlay adjustment



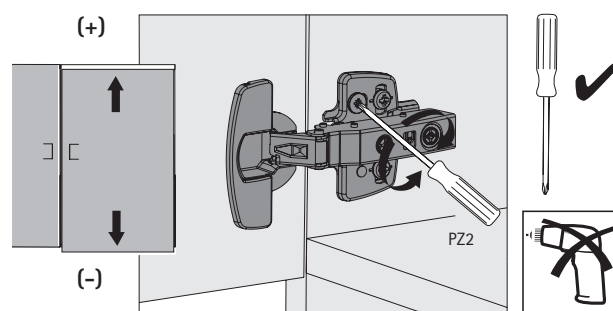
Depth adjustment



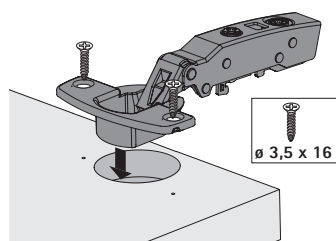
Oblong hole height adjustment



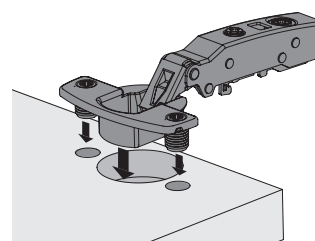
Eccentric cam height adjustment



Cup installation for screwing on



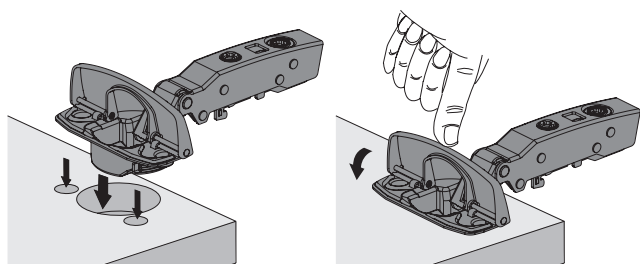
Cup installation for pressing in



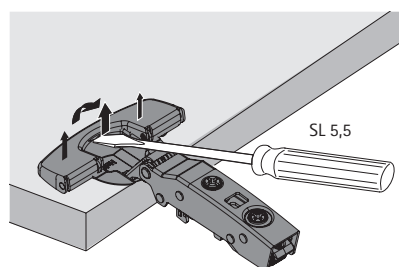
Technical information

- Sensys
- Installation notes

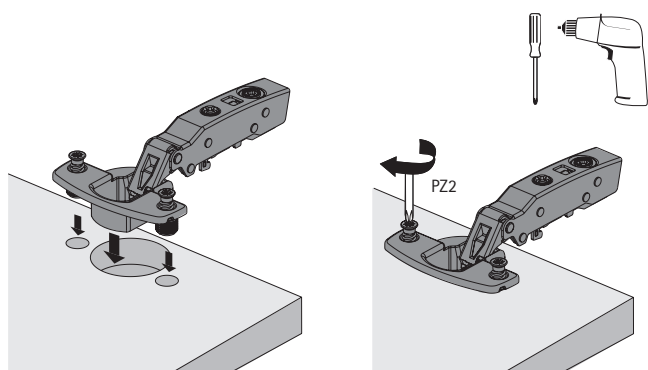
Fix cup installation



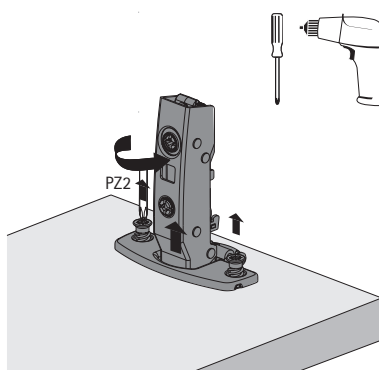
Removing Fix



Cup installation with premounted expanding sockets



Removing with premounted expanding sockets

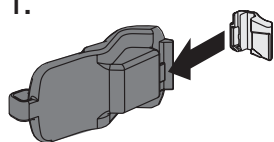


Technical information

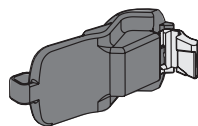
- Sensys
- Installation notes

Using installation aid for installing opening angle limiter for Sensys 8645i, Sensys 8639i W

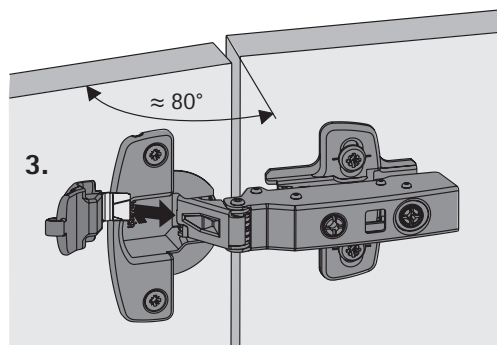
1.



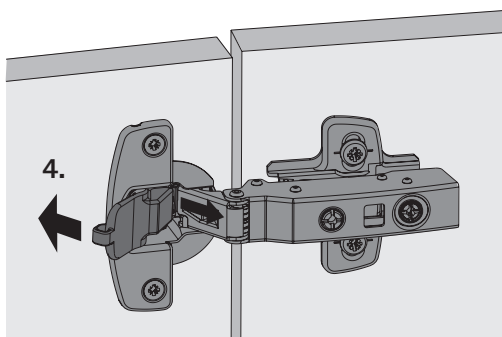
2.



3.

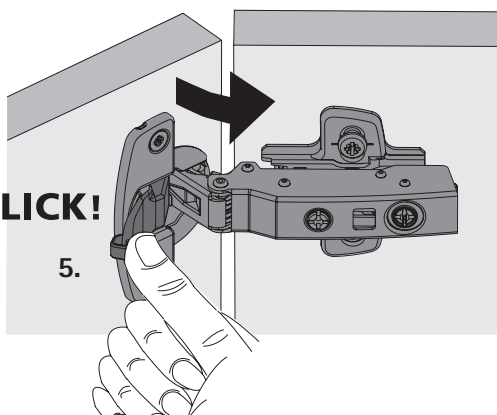


4.

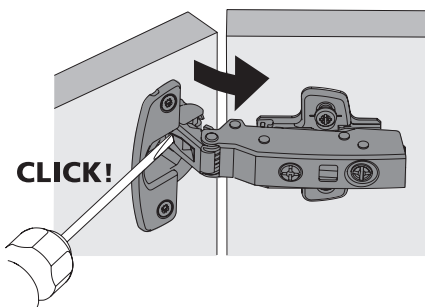
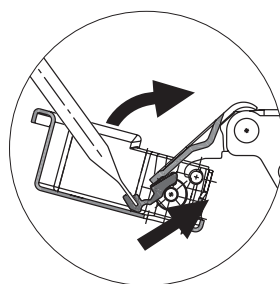
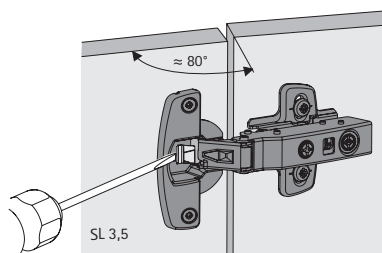


CLICK!

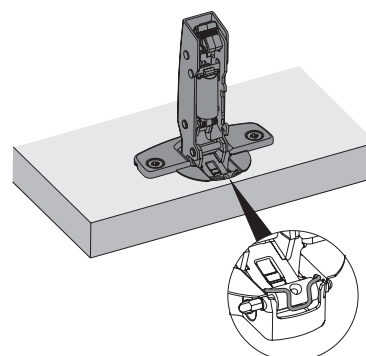
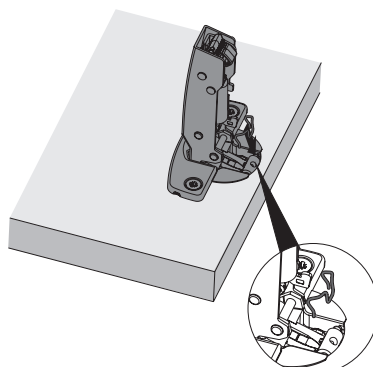
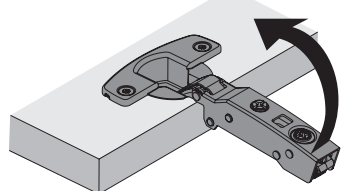
5.



Using screwdriver for installing opening angle limiter for Sensys 8645i, Sensys 8639i W



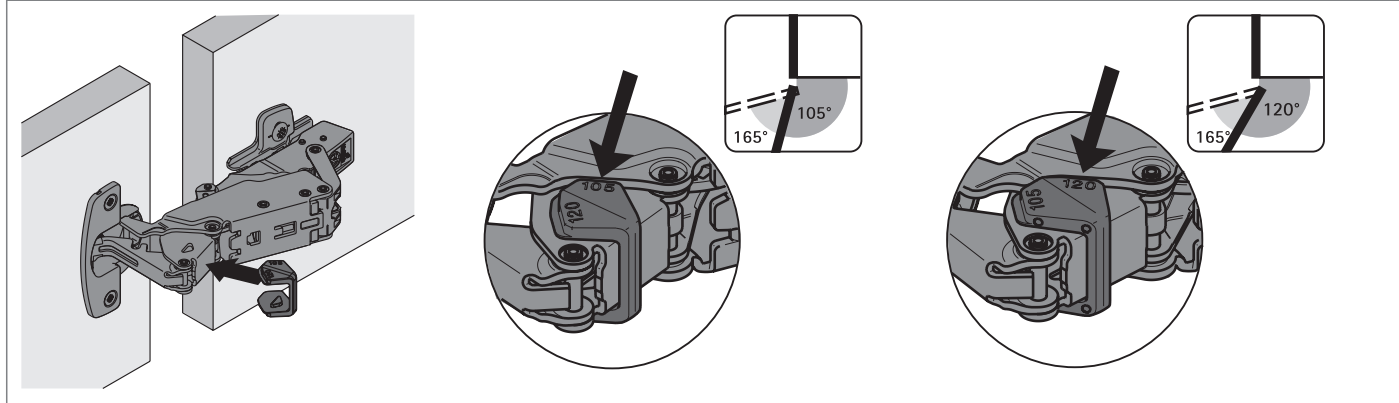
Installing opening angle limiter for thick door hinge 8631i



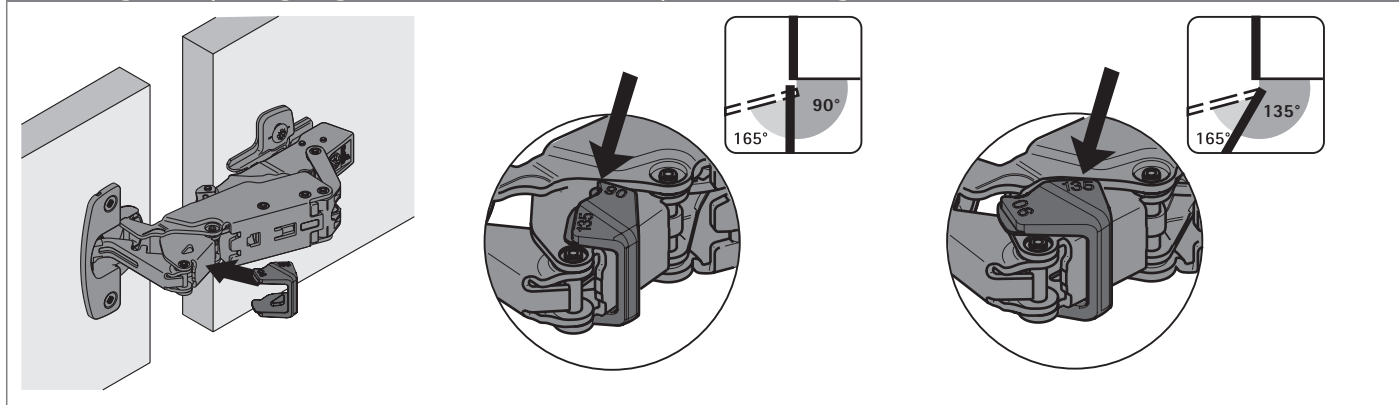
Technical information

- Sensys
- Installation notes

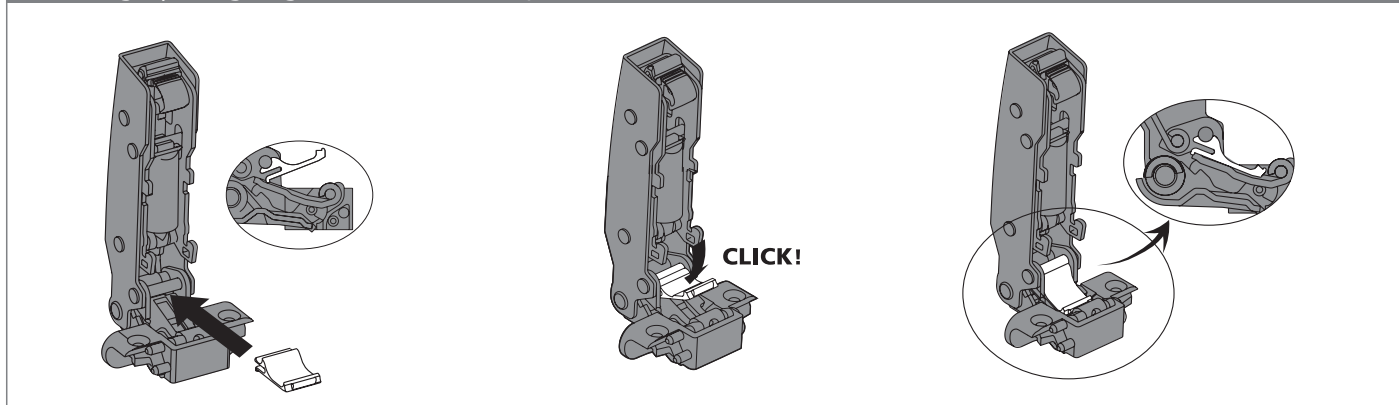
Installing the opening angle limiter for 8657i zero protrusion hinge



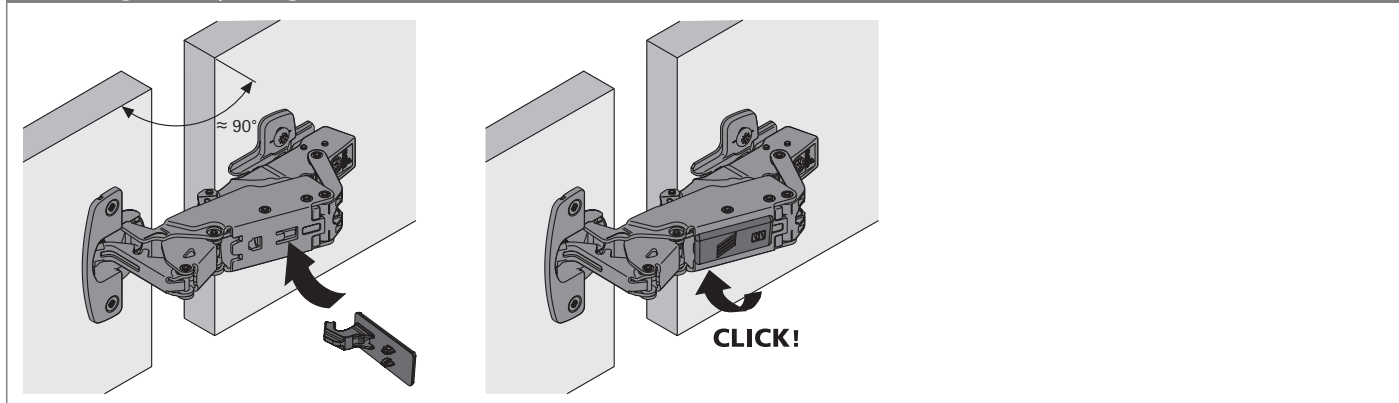
Installing the opening angle limiter for 8657i zero protrusion hinge



Installing opening angle limiter for Sensys 8638i aluminium framed doors



Installing soft opening



Quality criteria

► Concealed hinges

Quality that meets all the demands

Quality that meets all the demands

The quality of hinges is subject to a process of continuous monitoring. Hettich fittings comply with the national and international quality standards of the markets our customers operate in. The diagrams below show examples of the principles behind some of the testing processes.

Application

Hettich hinges can be used in living room, kitchen, bathroom and office furniture.

Load capacity

The quality levels indicated on products comply with the requirements

of EN 15570 and satisfy the overload tests at the specified level. We will be pleased to provide any further information you may require.

Corrosion test

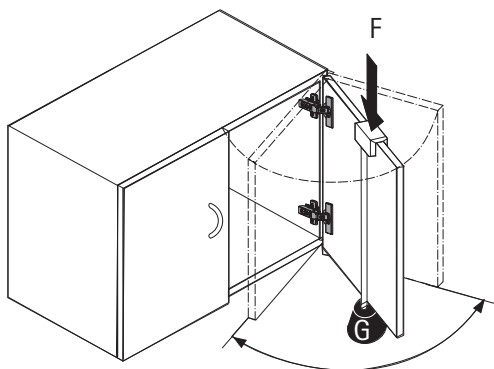
Hettich hinges satisfy the corrosion requirements under EN ISO 9227-2012 in accordance with the 48 h neutral salt spray test (NSS) as well as DIN EN ISO 6270-2-2012 in accordance with the 96 h alternating condensation water climate test with alternating air humidity and temperature (AHT).

Quality assurance

The processes for assuring the quality of Hettich hinges are certified

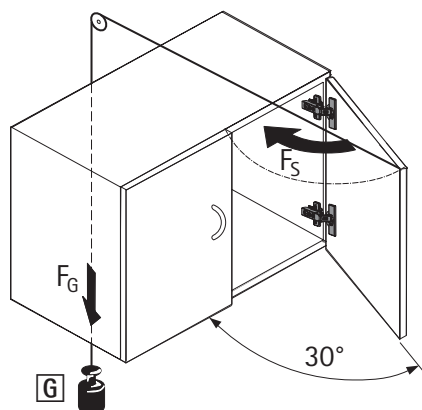
Endurance test

The door is subjected to a specific number of opening and closing cycles.



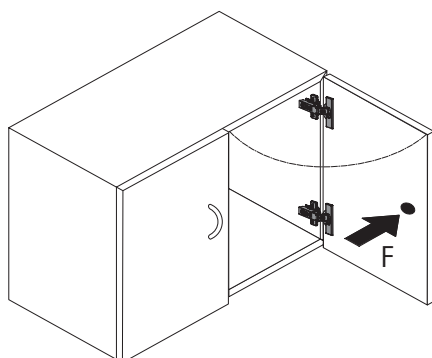
Closing test

The door is opened by 30° and pushed closed from this position by means of a pulley and falling weight.



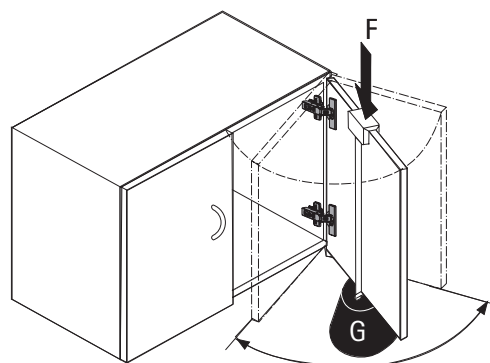
Horizontal test

The door is over opened with a defined test force F. (This test only applies to hinges with an opening angle < 135°.)



Vertical test

The door is subjected to a specific number of opening and closing cycles under a defined additional load G.



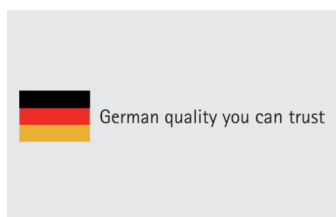
Concealed hinges

► Intermat fast assembly concealed hinge



Intermat

An economic and reliable choice



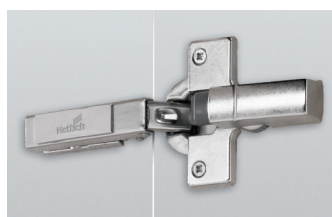
Tried and tested in millions of applications

Intermat gives you unbeatable value for money and top quality German engineering.



Versatile and future proof

This gives you flexibility in quickly meeting customer demands or new trends in furniture design.



Further sales potential for you

Differentiate between furniture ranges the simple way with different hinge functionalities and optional accessories.



Fast and secure installation

Ergonomic, concealed clip on installation for convenient fast installation with protection against accidental detachment.



Fast assembly concealed hinge

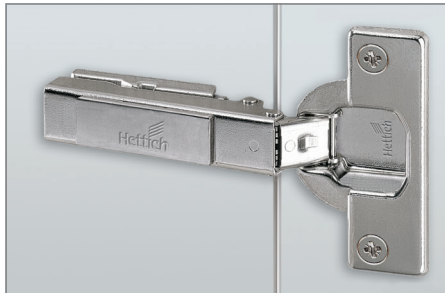
- Intermat
- Range summary



Intermat 110° standard hinge

- Intermat 9943 / 9973
- Opening angle 110°

58 - 60



Intermat 95° thick door hinge

- Intermat 9936
- For doors in thicknesses up to 32 mm

62 - 64



Intermat 95° special thick door hinge

- Intermat 9935
- For doors in thicknesses up to 43 mm

66 - 68



Sensys 165° zero protrusion hinge

- Sensys 8657 / 8687
- For unobstructed access to storage space

70 - 72



Intermat W45 angle hinge

- Intermat 9936 W45 / 9966 W45
- For face angle 45°

73 - 75



Intermat W90 angle hinge

- Intermat 9936 W90 / 9966 W90
- For 90° face angle applications

76 - 77



Intermat glass door hinge

- Intermat 9904
- For glass doors

78 - 79



Intermat corner unit hinge

- Intermat 9930
- For corner cabinet folding doors

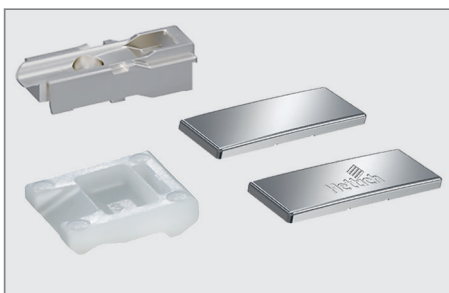
80 - 81



Mounting plates System 8099

- For Sensys and Intermat

88 - 90



Accessories

96 - 97

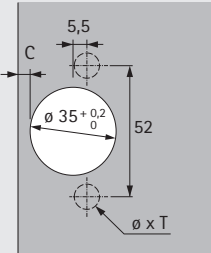
Fast assembly concealed hinge

- **Intermat 9943**
- **Opening angle 110°**



- Concealed hinge with clip on installation
- Quality classification under EN 15570, Level 3
- For door thickness 15 - 25 mm
- Cup diameter 35 mm
- Cup depth 11.6 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 2.5 mm / - 1.5 mm
- Height adjustment at mounting plate
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel

Intermat 9943, opening angle 110°

			Full overlay	Half overlay	Inset	
						
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Base B 12,5 mm	Base B 3 mm	Base B -3,5 mm	PU
For screwing on TH 42		-	1 029 518	1 030 620	1 030 922	200 ea.
For pressing in TH 43		ø 10 x 11	1 029 520	1 030 622	1 030 924	200 ea.
With premounted expanding sockets TH 48		ø 10 x 11	9 043 640	9 043 641	-	200 ea.
			-	-	9 043 360	50 ea.



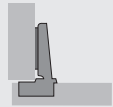
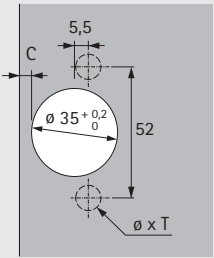
Fast assembly concealed hinge without self closing feature

- ▶ Intermat 9973
- ▶ Opening angle 110°



- ▶ Hinge with clip on installation without self closing feature
- ▶ For example for Push to open applications
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness 15 - 25 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11.6 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 2.5 mm / - 1.5 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Intermat 9973, opening angle 110°

Cup assembly		Drilling pattern	Mounting hole ø x T mm	Full overlay  Base B 12,5 mm	PU
For screwing on TH 43			ø 10 x 11	9 042 420	200 ea.

Fast assembly concealed hinge without self closing feature

► Intermat 9943 / 9973

► Opening angle 110°

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0					
15	0.4	0.4	0.4	0.4	0.4					
16	0.6	0.5	0.5	0.5	0.5					
17	0.8	0.7	0.7	0.7	0.7					
18	1.0	1.0	1.0	1.0	0.9					
19	1.4	1.3	1.3	1.2	1.2					
20	1.7	1.7	1.6	1.6	1.5					
21	2.2	2.1	2.0	2.0	1.9					
22	2.9	2.6	2.5	2.4	2.3					
23	3.7	3.3	3.2	3.0	2.8					
24	4.5	4.1	3.9	3.7	3.4					
25	5.4	4.9	4.7	4.5	4.1					

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

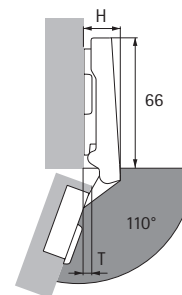
Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.8 mm

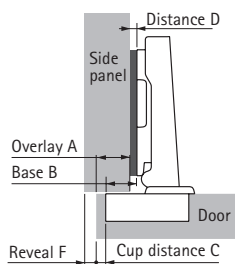
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
Full overlay	19.5	7.5
Half overlay	29.0	17.0
Inset	35.5	23.5

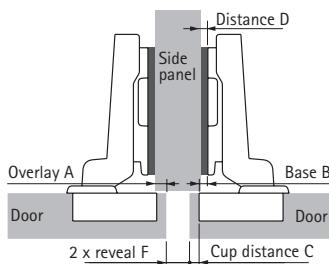
Full overlay



Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0					
Distance D mm										
10	5.5	6.5	7.0	7.5	8.5					
11	4.5	5.5	6.0	6.5	7.5					
12	3.5	4.5	5.0	5.5	6.5					
13	2.5	3.5	4.0	4.5	5.5					
14	1.5	2.5	3.0	3.5	4.5					
15	0.5	1.5	2.0	2.5	3.5					
16		0.5	1.0	1.5	2.5					
17			0.0	0.5	1.5					
18					0.5					

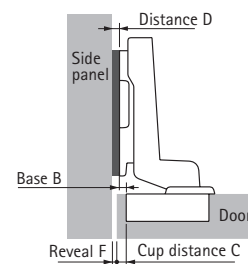
Half overlay



Distance D = C + B - A
= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0					
Distance D mm										
0.5	5.5	6.5	7.0	7.5	8.5					
1.5	4.5	5.5	6.0	6.5	7.5					
2.5	3.5	4.5	5.0	5.5	6.5					
3.5	2.5	3.5	4.0	4.5	5.5					
4.5	1.5	2.5	3.0	3.5	4.5					
5.5	0.5	1.5	2.0	2.5	3.5					
6.5		0.5	1.0	1.5	2.5					
7.5			0.0	0.5	1.5					
8.5					0.5					

Inset



Distance D = C + B + F
= cup distance C - 3.5 mm + reveal F

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0					
Distance D mm										
15		0.9	1.4	1.9	2.9					
16	0.1	1.0	1.5	2.0	3.0					
17	0.3	1.2	1.7	2.2	3.2					
18	0.5	1.5	2.0	2.5	3.4					
19	0.9	1.8	2.3	2.7	3.7					
20	1.2	2.2	2.6	3.1	4.0					
21	1.7	2.6	3.0	3.5	4.3					
22	2.4	3.1	3.5	3.9	4.8					
23	3.2	3.8	4.2	4.5	5.3					
24	4.0	4.6	4.9	5.2	5.9					
25	4.9	5.4	5.7	6.0	6.6					

Useful information

- For mounting plates and accessories, see page 88 - 90, 96 - 97
- For Push to open opening system, see page 124 - 139
- For fitting information, installation notes and quality criteria., see page 82 - 87



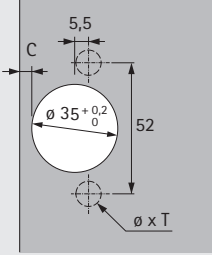
Fast assembly concealed hinge

- ▶ Intermat 9936 for doors in thicknesses up to 32 mm
- ▶ 95° opening angle

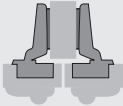
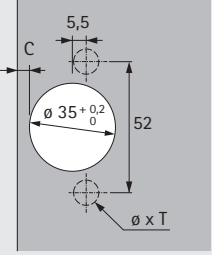


- ▶ Concealed hinge with clip on installation
- ▶ Quality classification under EN 15570, Level 2
- ▶ For door thickness 14 - 32 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 10.5 mm (11.3 mm Fix)
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 2.5 mm / - 1.5 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Intermat 9936, opening angle 95°

			Full overlay	
Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm		PU
For screwing on TH 42		-	1 058 365	200 ea.

Intermat 9936, opening angle 95°

			Half overlay	Inset	
Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm			PU
For screwing on TH 42		-	0 073 917	0 073 921	50 ea.



Fast assembly concealed hinge

- Intermat 9936 for doors in thicknesses up to 32 mm
- 95° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
15	0.3	0.2	0.2	0.2	0.2	0.2	0.2			
16	0.4	0.4	0.4	0.4	0.4	0.4	0.4			
17	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
18	0.7	0.7	0.7	0.7	0.6	0.6	0.6			
19	0.9	0.9	0.9	0.8	0.8	0.8	0.8			
20	1.1	1.1	1.1	1.1	1.0	1.0	1.0			
21	1.4	1.3	1.3	1.3	1.3	1.2	1.2			
22	1.7	1.6	1.6	1.6	1.5	1.5	1.5			
23	2.0	1.9	1.9	1.9	1.8	1.8	1.7			
24	2.3	2.3	2.2	2.2	2.1	2.1	2.0			
25	2.8	2.7	2.6	2.6	2.5	2.4	2.4			
26	3.3	3.1	3.1	3.0	2.9	2.8	2.7			
27	4.2	3.7	3.6	3.5	3.3	3.2	3.1			
28	5.0	4.5	4.3	4.1	3.9	3.7	3.6			
29	5.9	5.4	5.2	4.9	4.6	4.3	4.1			
30	6.8	6.3	6.0	5.8	5.3	5.0	4.7			
31	7.8	7.2	6.9	6.6	6.1	5.7	5.4			
32	8.7	8.1	7.8	7.5	7.0	6.5	6.1			

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

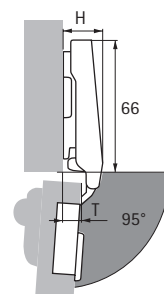
Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.8 mm

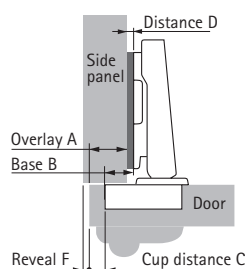
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
Full overlay	19.5	10.0
Half overlay	29.0	19.5
Inset	35.5	26.0

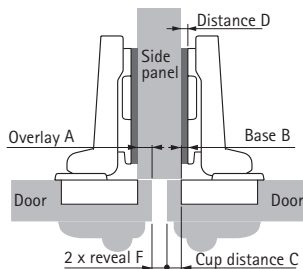
Full overlay



Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
	Distance D mm									
10	5.5	6.5	7.0	7.5	8.5	9.5	10.5			
11	4.5	5.5	6.0	6.5	7.5	8.5	9.5			
12	3.5	4.5	5.0	5.5	6.5	7.5	8.5			
13	2.5	3.5	4.0	4.5	5.5	6.5	7.5			
14	1.5	2.5	3.0	3.5	4.5	5.5	6.5			
15	0.5	1.5	2.0	2.5	3.5	4.5	5.5			
16		0.5	1.0	1.5	2.5	3.5	4.5			
17			0.0	0.5	1.5	2.5	3.5			
18					0.5	1.5	2.5			
19						0.5	1.5			
20							0.5			

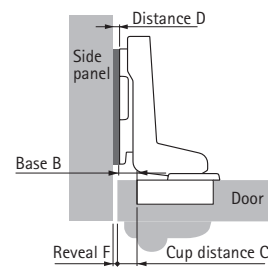
Half overlay



Distance D = C + B - A
= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
Distance D mm										
0	6.0	7.0	7.5	8.0	9.0	10.0	11.0			
1	5.0	6.0	6.5	7.0	8.0	9.0	10.0			
2	4.0	5.0	5.5	6.0	7.0	8.0	9.0			
3	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
4	2.0	3.0	3.5	4.0	5.0	6.0	7.0			
5	1.0	2.0	2.5	3.0	4.0	5.0	6.0			
6	0.0	1.0	1.5	2.0	3.0	4.0	5.0			
7		0.0	0.5	1.0	2.0	3.0	4.0			
8				0.0	1.0	2.0	3.0			
9					0.0	1.0	2.0			
10						0.0	1.0			
11							0.0			

Inset



Distance D = C + B + F
= cup distance C - 3.5 mm + reveal F

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0			
	Distance D mm									
14		0.7	1.2	1.7	2.7	3.7	4.7			
15		0.7	1.2	1.7	2.7	3.7	4.7			
16		0.9	1.4	1.9	2.9	3.9	4.9			
17	0.0	1.0	1.5	2.0	3.0	4.0	5.0			
18	0.2	1.2	1.7	2.2	3.1	4.1	5.1			
19	0.4	1.4	1.9	2.3	3.3	4.3	5.3			
20	0.6	1.6	2.1	2.6	3.5	4.5	5.5			
21	0.9	1.8	2.3	2.8	3.8	4.7	5.7			
22	1.2	2.1	2.6	3.1	4.0	5.0	6.0			
23	1.5	2.4	2.9	3.4	4.3	5.3	6.2			
24	1.8	2.8	3.2	3.7	4.6	5.6	6.5			
25	2.3	3.2	3.6	4.1	5.0	5.9	6.9			
26	2.8	3.6	4.1	4.5	5.4	6.3	7.2			
27	3.7	4.2	4.6	5.0	5.8	6.7	7.6			
28	4.5	5.0	5.3	5.6	6.4	7.2	8.1			
29	5.4	5.9	6.2	6.4	7.1	7.8	8.6			
30	6.3	6.8	7.0	7.3	7.8	8.5	9.2			
31	7.3	7.7	7.9	8.1	8.6	9.2	9.9			
32	8.2	8.6	8.8	9.0	9.5	10.0	10.6			

Useful information

- For mounting plates and accessories, see page 88 - 90, 96 - 97
- For Push to open opening system, see page 124 - 139
- For fitting information, installation notes and quality criteria, see page 82 - 87

Fast assembly concealed hinge

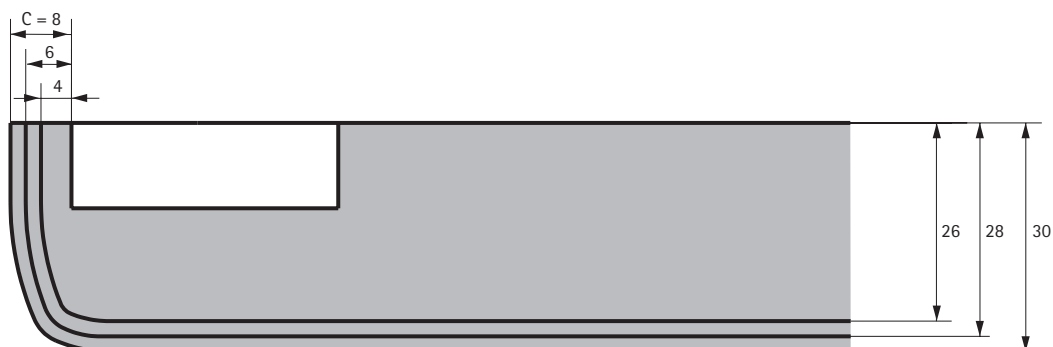
- Intermat 9936 for doors in thicknesses up to 32 mm
- 95° opening angle

Door contours for minimum reveal application - scale 1:1

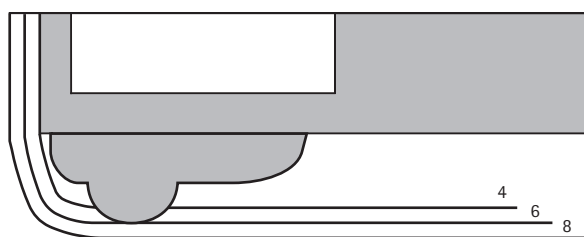
The values shown in the Minimum reveal table refer to non-rounded door edges.

Reveal values improve with chamfered door edges. To obtain a minimum reveal application, the chosen door contour must lie within the template.

All contours protruding beyond the template will increase the reveal accordingly.

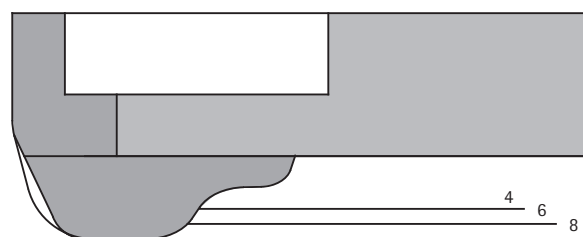


Example of minimum reveal application



Example of minimum reveal application

Door thickness	16 mm
Profile thickness	12 mm
Overall thickness	28 mm
Cup distance C	6 mm



Example of minimum reveal application

Door thickness	19 mm
Profile thickness	11 mm
Overall thickness	30 mm
Cup distance C	8 mm



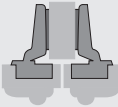
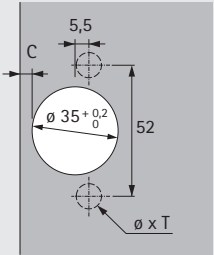
Fast assembly concealed hinge

- Intermat 9935 for doors in thicknesses up to 43 mm
- 95° opening angle



- Concealed hinge with clip on installation
- Quality classification under EN 15570, Level 2
- For door thickness 16 - 43 mm
- Cup diameter 40 mm
- Cup depth 13.7 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 2.5 mm / - 1.5 mm
- Height adjustment at mounting plate
- Hinge arm material: zinc die-cast nickel plated
- Cup hinge material: zinc die-cast nickel plated

Intermat 9935, opening angle 95°

			Full overlay	Half overlay	Inset	
						
Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	Base B 18 mm	Base B 8 mm	Base B -3 mm	PU
For screwing on TH 22 / L		-	9 117 716	9 117 717	9 117 718	10 ea.



Fast assembly concealed hinge

- Intermat 9935 for doors in thicknesses up to 43 mm
- 95° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0
26	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8
27	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
28	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2
29	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4
30	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6
31	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8
32	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0
33	3.1	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.2
34	4.1	3.4	3.0	2.7	2.7	2.7	2.6	2.6	2.5	2.5
35	5.0	4.3	4.0	3.7	3.0	3.0	2.9	2.9	2.8	2.8
36	6.0	5.3	4.9	4.6	4.0	3.4	3.2	3.2	3.1	3.1
37	7.0	6.2	5.9	5.5	4.9	4.3	3.7	3.5	3.4	3.4
38	7.9	7.2	6.8	6.5	5.8	5.2	4.6	4.1	3.8	3.7
39	8.9	8.1	7.8	7.4	6.7	6.1	5.5	5.0	4.5	4.1
40	9.9	9.1	8.7	8.4	7.7	7.0	6.4	5.8	5.3	4.8
41	10.9	10.1	9.7	9.3	8.6	8.0	7.3	6.7	6.2	5.7
42	11.9	11.1	10.7	10.3	9.6	8.9	8.3	7.7	7.1	6.6
43	12.8	12.0	11.7	11.3	10.5	9.8	9.2	8.6	8.0	7.4

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

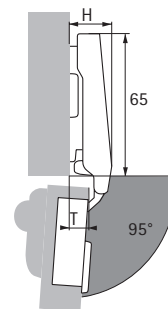
Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.8 mm

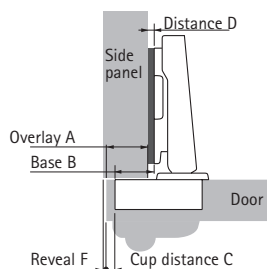
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
Full overlay	20.0	10.5
Half overlay	30.0	20.5
Inset	41.0	31.5

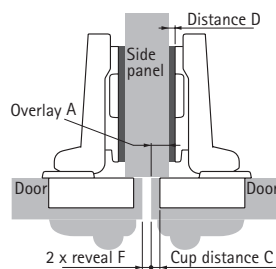
Full overlay



Distance D = C + B - A
= cup distance C + 18 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0
12	9.0	10.0	10.5	11.0	12.0	13.0	14.0	15.0	16.0	17.0
13	8.0	9.0	9.5	10.0	11.0	12.0	13.0	14.0	15.0	16.0
14	7.0	8.0	8.5	9.0	10.0	11.0	12.0	13.0	14.0	15.0
15	6.0	7.0	7.5	8.0	9.0	10.0	11.0	12.0	13.0	14.0
16	5.0	6.0	6.5	7.0	8.0	9.0	10.0	11.0	12.0	13.0
17	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	11.0	12.0
18	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0
19	2.0	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0
20	1.0	2.0	2.5	3.0	4.0	5.0	6.0	7.0	8.0	9.0
21	0.0	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
22		0.0	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0
23				0.0	1.0	2.0	3.0	4.0	5.0	6.0
24					0.0	1.0	2.0	3.0	4.0	5.0
25						0.0	1.0	2.0	3.0	4.0
26							0.0	1.0	2.0	3.0
27								0.0	1.0	2.0
28									0.0	1.0
29										0.0

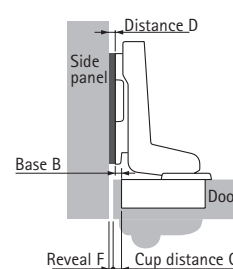
Half overlay



Distance D = C + B - A
= cup distance C + 8 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0
2	9.0	10.0	10.5	11.0	12.0	13.0	14.0	15.0	16.0	17.0
3	8.0	9.0	9.5	10.0	11.0	12.0	13.0	14.0	15.0	16.0
4	7.0	8.0	8.5	9.0	10.0	11.0	12.0	13.0	14.0	15.0
5	6.0	7.0	7.5	8.0	9.0	10.0	11.0	12.0	13.0	14.0
6	5.0	6.0	6.5	7.0	8.0	9.0	10.0	11.0	12.0	13.0
7	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	11.0	12.0
8	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0
9	2.0	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0
10	1.0	2.0	2.5	3.0	4.0	5.0	6.0	7.0	8.0	9.0
11	0.0	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
12		0.0	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0
13				0.0	1.0	2.0	3.0	4.0	5.0	6.0
14					0.0	1.0	2.0	3.0	4.0	5.0
15						0.0	1.0	2.0	3.0	4.0
16							0.0	1.0	2.0	3.0
17								0.0	1.0	2.0
18									0.0	1.0
19										0.0

Inset



Distance D = C + B + F
= cup distance C - 3 mm + reveal F

Door thickness mm	Cup distance C mm									
	3.0	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0
26	0.9	1.9	2.4	2.9	3.9	4.9	5.9	6.9	7.9	8.8
27	1.1	2.1	2.6	3.1	4.1	5.1	6.0	7.0	8.0	9.0
28	1.3	2.3	2.8	3.3	4.3	5.2	6.2	7.2	8.2	9.2
29	1.5	2.5	3.0	3.5	4.5	5.4	6.4	7.4	8.4	9.4
30	1.7	2.7	3.2	3.7	4.7	5.6	6.6	7.6	8.6	9.6
31	2.0	3.0	3.4	3.9	4.9	5.9	6.8	7.8	8.8	9.8
32	2.3	3.2	3.7	4.2	5.1	6.1	7.1	8.1	9.0	10.0
33	3.1	3.5	4.0	4.5	5.4	6.4	7.3	8.3	9.3	10.2
34	4.1	4.4	4.5	4.7	5.7	6.7	7.6	8.6	9.5	10.5
35	5.0	5.3	5.5	5.7	6.0	7.0	7.9	8.9	9.8	10.8
36	6.0	6.3	6.4	6.6	7.0	7.4	8.2	9.2	10.1	11.1
37	7.0	7.2	7.4	7.5	7.9	8.3	8.7	9.5	10.4	11.4
38	7.9	8.2	8.3	8.5	8.8	9.2	9.6	10.1	10.8	11.7
39	8.9	9.1	9.3	9.4	9.7	10.1	10.5	11.0	11.5	12.1
40	9.9	10.1	10.2	10.4	10.7	11.0	11.4	11.8	12.3	12.8
41	10.9	11.1	11.2	11.3	11.6	12.0	12.3	12.7	13.2	13.7
42	11.9	12.1	12.2	12.3	12.6	12.9	13.3	13.7	14.1	14.6
43	12.8	13.0	13.2	13.3	13.5	13.8	14.2	14.6	15.0	15.4

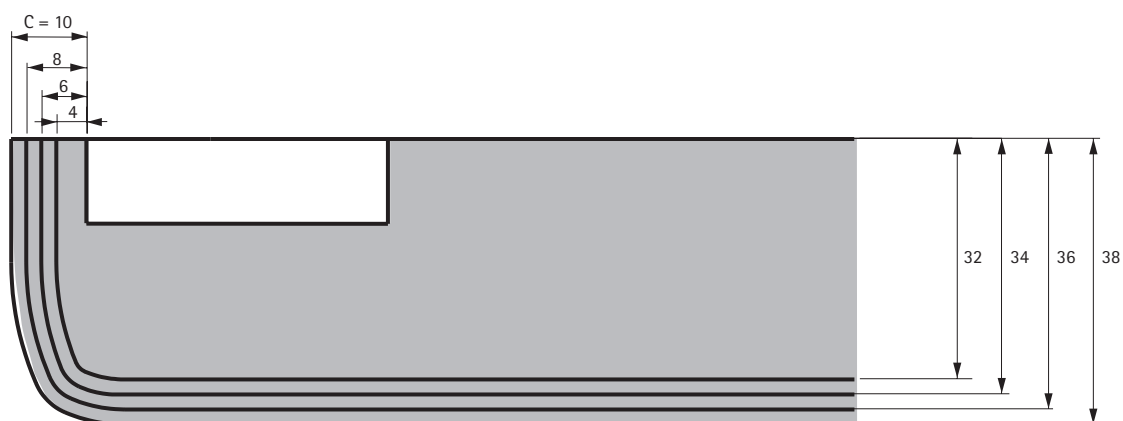
Useful information

- For mounting plates and accessories, see page 88 - 90, 96 - 97
- For Push to open opening system, see page 124 - 139
- For fitting information, installation notes and quality criteria, see page 82 - 87

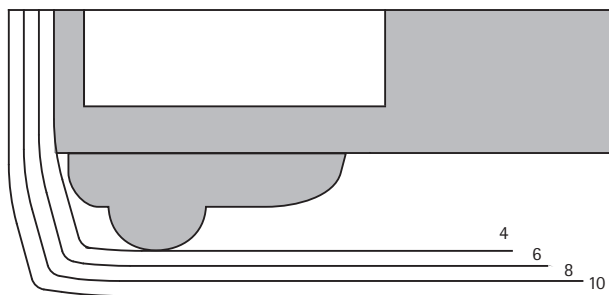
Fast assembly concealed hinge

- ▶ Intermat 9935 for doors in thicknesses up to 43 mm
- ▶ 95° opening angle

Door contours for minimum reveal application - scale 1:1

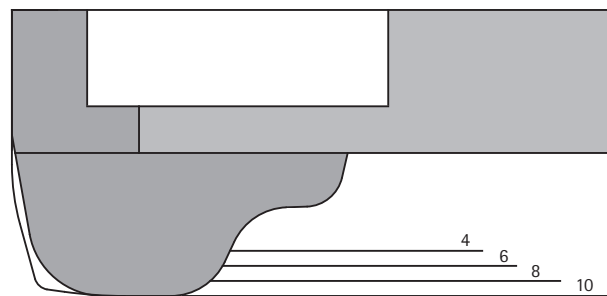


Example of minimum reveal application



Example of minimum reveal application

Door thickness	19 mm
Profile thickness	13 mm
Overall thickness	32 mm
Cup distance C	4 mm



Example of minimum reveal application

Door thickness	19 mm
Profile thickness	19 mm
Overall thickness	38 mm
Cup distance C	10 mm

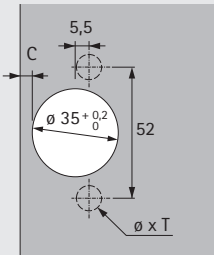
Fast assembly concealed hinge

- Sensys 8657 with cup in Interimat design, zero protrusion hinge
- Opening angle 165°



- Concealed hinge with clip on installation without integrated Silent System
- Quality classification under EN 15570, Level 3
- For door thickness of 15 – 32 mm
- Cup diameter 35 mm
- Cup depth 11.6 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment +3 mm / - 2 mm
- Height adjustment at mounting plate
- Opening angle can be reduced by means of optional accessories
- Zero protrusion hinge
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel
- Note: can only be used with System 8099 mounting plate

Sensys 8657, opening angle 165°

			Full overlay	Half overlay	
					
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Base B 12,5 mm	Base B 3 mm	PU
For screwing on TH 42		-	9 099 750	9 099 760	50 ea.
For pressing in TH 43		ø 10 x 11	9 099 751	9 099 761	50 ea.
With premounted expanding sockets TH 48		ø 10 x 11	9 099 756	9 099 766	50 ea.



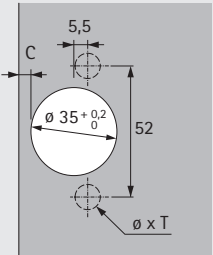
Fast assembly concealed hinge without self closing feature

- ▶ Sensys 8687 with cup in Intermat design, zero protrusion hinge
- ▶ Opening angle 165°



- ▶ Hinge with clip on installation without self closing feature
- ▶ For example for Push to open applications
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness of 15 – 32 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11.6 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Opening angle can be reduced by means of optional accessories
- ▶ Zero protrusion hinge
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel
- ▶ Note: can only be used with System 8099 mounting plate

Sensys 8687, opening angle 165°

			Full overlay	Half overlay	
					
Cup assembly	Drilling pattern	Mounting hole ø x T mm	Base B 12,5 mm	Base B 3 mm	PU
For screwing on TH 42		-	9 099 810	9 099 820	50 ea.
For pressing in TH 43		ø 10 x 11	9 099 811	9 099 821	50 ea.

Fast assembly concealed hinge

- Sensys 8657 / 8687 with cup in Intermat design, zero protrusion hinge
- Opening angle 165°

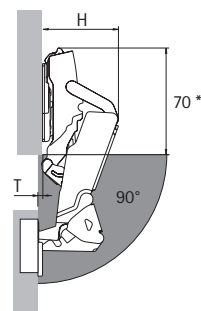
Minimum reveal per door

Door thickness mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
15	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						
17	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						
19	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						
21	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						
23	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						
25	0.0	0.0	0.0	0.0	0.0	0.0						
26	0.1	0.1	0.1	0.1	0.1	0.1						
27	0.1	0.1	0.1	0.1	0.1	0.1						
28	0.2	0.2	0.2	0.2	0.2	0.3						
29*	0.4	0.4	0.4	0.4	0.5	0.6						
30**	0.7	0.7	0.8	0.8	1.0	1.1						
31**	1.1	1.2	1.3	1.4	1.6							
32**	1.7	1.9	2.0	2.2								

*when using the opening angle limiter at 120°

**when using the opening angle limiter at 105°

Protrusions / installed depth

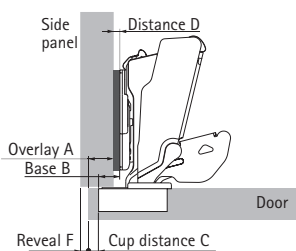


No door protrusion T up to distance D = 3, unobstructed interior for pull-outs.

*Hinge closed: 80 mm

Door mounting option	H mm (max. at 30°)	T mm (90°, D0)
Full overlay	66	-3
Half overlay	75.5	6.5

Full overlay

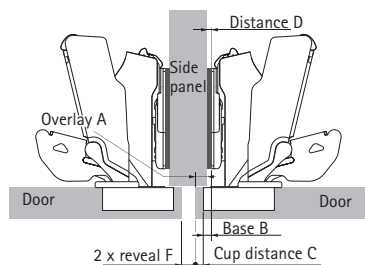


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

= cup distance C + 12.5 mm - overlay A

Overlay mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
Distance D mm												
10	5.5	6.5	7.0	7.5	8.5	9.5						
11	4.5	5.5	6.0	6.5	7.5	8.5						
12	3.5	4.5	5.0	5.5	6.5	7.5						
13	2.5	3.5	4.0	4.5	5.5	6.5						
14	1.5	2.5	3.0	3.5	4.5	5.5						
15	0.5	1.5	2.0	2.5	3.5	4.5						
16		0.5	1.0	1.5	2.5	3.5						
17			0.0	0.5	1.5	2.5						
18					0.5	1.5						
19						0.5						

Half overlay



$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
Distance D mm												
- 2	8.0	9.0	9.5	10.0	11.0	12.0						
- 1	7.0	8.0	8.5	9.0	10.0	11.0						
0	6.0	7.0	7.5	8.0	9.0	10.0						
1	5.0	6.0	6.5	7.0	8.0	9.0						
2	4.0	5.0	5.5	6.0	7.0	8.0						
3	3.0	4.0	4.5	5.0	6.0	7.0						
4	2.0	3.0	3.5	4.0	5.0	6.0						
5	1.0	2.0	2.5	3.0	4.0	5.0						
6	0.0	1.0	1.5	2.0	3.0	4.0						
7		0.0	0.5	1.0	2.0	3.0						
8				0.0	1.0	2.0						
9					0.0	1.0						
10						0.0						

Useful information

- For mounting plates and accessories, see page 88 - 90, 96 - 97
- For Push to open opening system, see page 124 - 139
- For fitting information, installation notes and quality criteria., see page 82 - 87



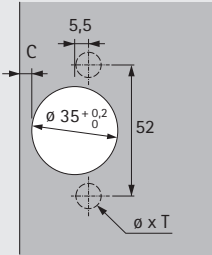
Fast assembly concealed hinge

- ▶ Intermat 9936 W45
- ▶ For 45° face angle, 95° opening angle



- ▶ Concealed hinge with clip on installation
- ▶ Quality classification under EN 15570, Level 2
- ▶ For 45° face angle
- ▶ For door thickness 14 - 32 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 10.5 mm (11.3 mm Fix)
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 2 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Intermat 9936 W45, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole ø x T mm	Overlay		Inset	PU
			 Base B 0 mm	 Base B 6 mm	 Base B -17 mm	
For screwing on TH 42		-	0 048 096	0 077 699	0 073 932	50 ea.
For pressing in TH 43		ø 10 x 11	0 048 097	0 077 700	0 073 933	50 ea.

Fast assembly concealed hinge

► Intermat 9936 / 9966 W45

► For 45° face angle, 95° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm							
	3.0	4.0	4.5	5.0	6.0	7.0	8.0	
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
15	0.3	0.2	0.2	0.2	0.2	0.2	0.2	
16	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
17	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
18	0.7	0.7	0.7	0.7	0.6	0.6	0.6	
19	0.9	0.9	0.9	0.8	0.8	0.8	0.8	
20	1.1	1.1	1.1	1.1	1.0	1.0	1.0	
21	1.4	1.3	1.3	1.3	1.3	1.2	1.2	
22	1.7	1.6	1.6	1.6	1.5	1.5	1.5	
23	2.0	1.9	1.9	1.9	1.8	1.8	1.7	
24	2.3	2.3	2.2	2.2	2.1	2.1	2.0	
25	2.8	2.7	2.6	2.6	2.5	2.4	2.4	
26	3.3	3.1	3.1	3.0	2.9	2.8	2.7	
27	4.2	3.7	3.6	3.5	3.3	3.2	3.1	
28	5.0	4.5	4.3	4.1	3.9	3.7	3.6	
29	5.9	5.4	5.2	4.9	4.6	4.3	4.1	
30	6.8	6.3	6.0	5.8	5.3	5.0	4.7	
31	7.8	7.2	6.9	6.6	6.1	5.7	5.4	
32	8.7	8.1	7.8	7.5	7.0	6.5	6.1	

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.8 mm

Note

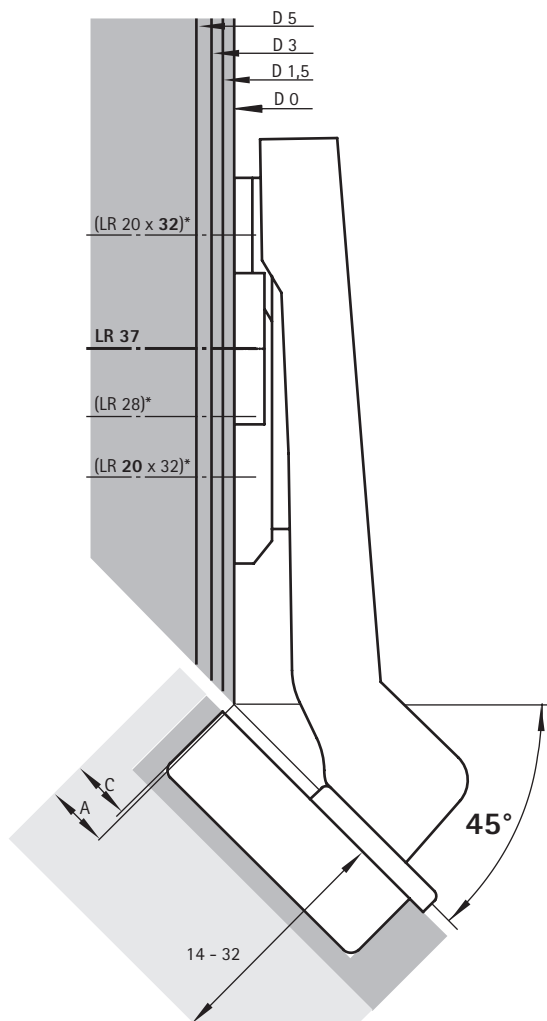
The drawings below show the hinges including mounting plate distances on a scale of 1:1.

The door reveal can be measured directly from the individual distance lines by drawing in the required cup distance C (3 - 8 mm).

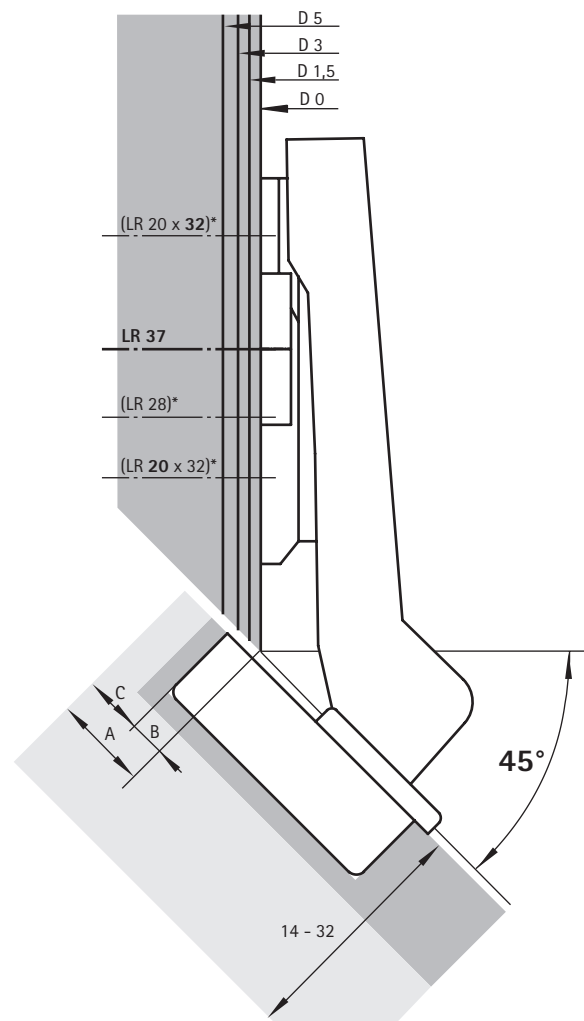
To determine the position for securing the mounting plate, measure along the selected distance line from the carcass front edge to the corresponding marking line for the line of holes.

Door thickness and cup distance C determine the required minimum reveal shown in the

Overlay (B 0 mm) - Scale 1:1



Overlay (B 6 mm) - Scale 1:1



Fast assembly concealed hinge

► Intermat 9936 / 9966 W45

► For 45° face angle, 95° opening angle

Minimum reveal per door

Door thick- ness mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0	8.0					
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2					
15	0.3	0.2	0.2	0.2	0.2	0.2	0.2					
16	0.4	0.4	0.4	0.4	0.4	0.4	0.4					
17	0.5	0.5	0.5	0.5	0.5	0.5	0.5					
18	0.7	0.7	0.7	0.7	0.6	0.6	0.6					
19	0.9	0.9	0.9	0.8	0.8	0.8	0.8					
20	1.1	1.1	1.1	1.1	1.0	1.0	1.0					
21	1.4	1.3	1.3	1.3	1.3	1.2	1.2					
22	1.7	1.6	1.6	1.6	1.5	1.5	1.5					
23	2.0	1.9	1.9	1.9	1.8	1.8	1.7					
24	2.3	2.3	2.2	2.2	2.1	2.1	2.0					
25	2.8	2.7	2.6	2.6	2.5	2.4	2.4					
26	3.3	3.1	3.1	3.0	2.9	2.8	2.7					
27	4.2	3.7	3.6	3.5	3.3	3.2	3.1					
28	5.0	4.5	4.3	4.1	3.9	3.7	3.6					
29	5.9	5.4	5.2	4.9	4.6	4.3	4.1					
30	6.8	6.3	6.0	5.8	5.3	5.0	4.7					
31	7.8	7.2	6.9	6.6	6.1	5.7	5.4					
32	8.7	8.1	7.8	7.5	7.0	6.5	6.1					

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.8 mm

Note

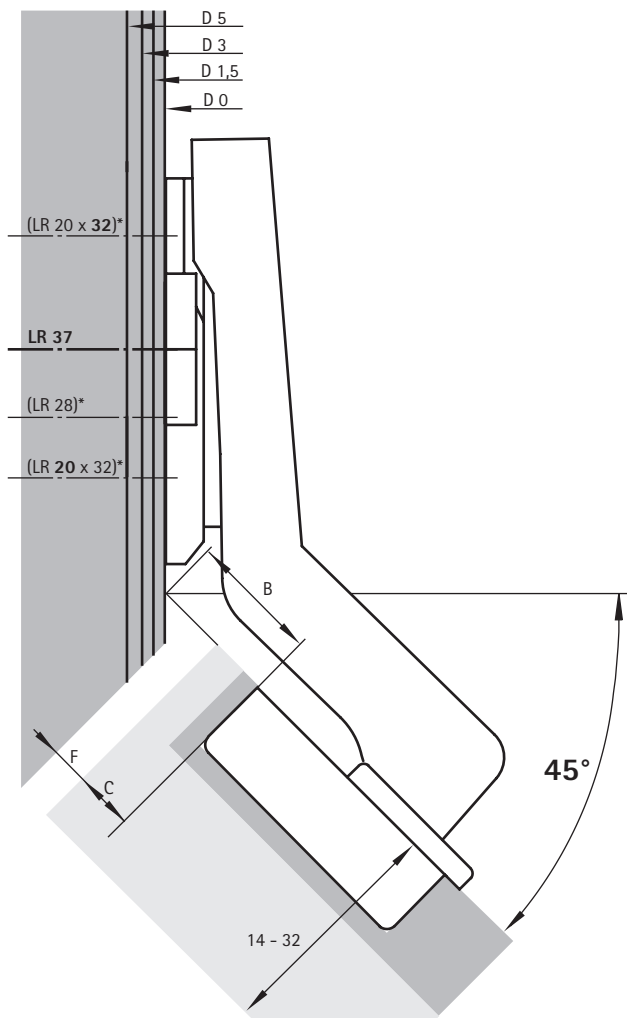
The drawings below show the hinges including mounting plate distances on a scale of 1:1.

The door reveal can be measured directly from the individual distance lines by drawing in the required cup distance C (3 - 8 mm).

To determine the position for securing the mounting plate, measure along the selected distance line from the carcase front edge to the corresponding marking line for the line of holes.

Door thickness and cup distance C determine the required minimum reveal shown in the

Inset (B -17 mm) - Scale 1:1



Useful information

- For mounting plates and accessories, see page 88 - 90, 96 - 97
- For Push to open opening system, see page 124 - 139
- For fitting information, installation notes and quality criteria, see page 82 - 87

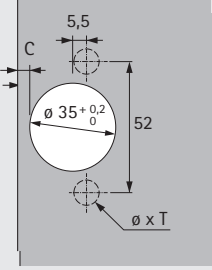
Fast assembly concealed hinge

- ▶ Intermat 9936 W90
- ▶ For 90° face angle, 95° opening angle



- ▶ Concealed hinge with clip on installation
- ▶ Quality classification under EN 15570, Level 2
- ▶ For 90° face angle
- ▶ For door thickness 14 - 28 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 10.5 mm (11.3 mm Fix)
- ▶ Integrated adjustment of door offset + 2 mm / - 2 mm
- ▶ Integrated reveal adjustment + 2 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Intermat 9936 W90, opening angle 95°

			Inset	
Cup assembly	Drilling pattern	Mounting hole ø x T mm	 Base B 5 mm	PU
For screwing on TH 42		-	0 077 708	50 ea.
For pressing in TH 43		ø 10 x 11	0 077 709	50 ea.
With premounted expanding sockets TH 48		ø 10 x 11	9 043 672	50 ea.



Fast assembly concealed hinge

► Intermat 9936 / 9966 W90

► For 90° face angle, 95° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm											
	3.0	4.0	4.5	5.0	6.0	7.0						
14	0.2	0.2	0.2	0.2	0.2	0.2						
15	0.3	0.2	0.2	0.2	0.2	0.2						
16	0.4	0.4	0.4	0.4	0.4	0.4						
17	0.5	0.5	0.5	0.5	0.5	0.5						
18	0.7	0.7	0.7	0.7	0.6	0.6						
19	0.9	0.9	0.9	0.8	0.8	0.8						
20	1.1	1.1	1.1	1.1	1.0	1.0						
21	1.4	1.3	1.3	1.3	1.3							
22	1.7	1.6	1.6	1.6	1.5							
23	2.0	1.9	1.9	1.9	1.8							
24	2.3	2.3	2.2	2.2	2.1							
25	2.8	2.7	2.6	2.6								
26	3.3	3.1	3.1									
27	4.2	3.7	3.6									
28	5.0											

Please note:

The table entries refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.8 mm

Note

The drawings below show the hinges including mounting plate distances on a scale of 1:1.

Full overlay

- overlay A = cup distance C + 8.5 mm
- hole line distance X
- for LR37 mounting plate = 37 mm
- X > 20 mm

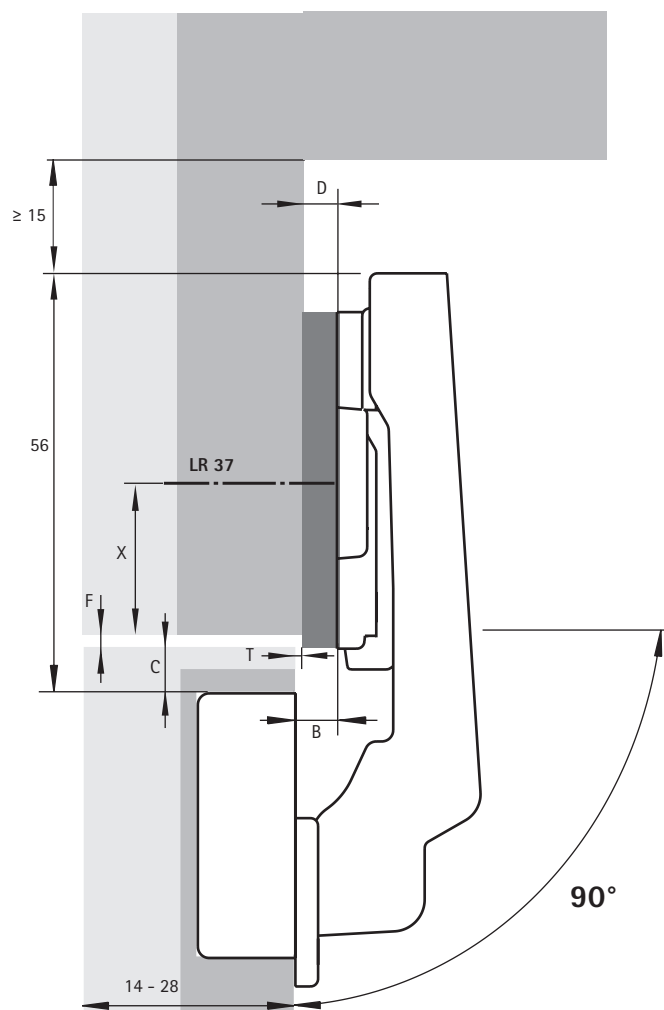
Inset

- hole line distance X
- for LR37 mounting plate = 28 mm - C - F
- X > 20 mm

Inset (B 5 mm) - Scale 1:1

Distance D = 5 mm - door offset

e.g. door offset 0 mm: distance D = 5 mm



Useful information

- For mounting plates and accessories, see page 88 - 90, 96 - 97
- For Push to open opening system, see page 124 - 139
- For fitting information, installation notes and quality criteria., see page 82 - 87

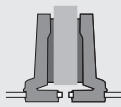
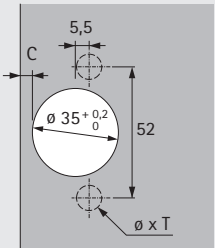
Fast assembly concealed hinge

- Intermat 9904 for glass doors
- 95° opening angle



- Concealed hinge with clip on installation
- Quality classification under EN 15570, Level 2
- For glass thicknesses 4.0 – 6.5 mm
- Cup diameter 26 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 2.5 mm / - 1.5 mm
- Height adjustment at mounting plate
- Hinge arm material: zinc die-cast nickel plated
- Hinge cup material: black plastic

Intermat 9904, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole ø x T mm	Full overlay	Half overlay	Inset	PU
			 Base B 11 mm	 Base B 2,5 mm	 Base B -4 mm	
For screwing on TU 12 / S		-	0 072 960	0 072 967	0 072 968	50 ea.

Decorative caps type A



Finish	Order no.	PU
1 Chrome-plated high-gloss	0 040 341	50 set
2 Nickel-plated matt	0 070 712	50 set

Set, including cap mount and fixing screws. For glass thicknesses 5.5 –

Decorative caps type B



Finish	Order no.	PU
1 Chrome-plated high-gloss	0 040 495	50 set
2 Nickel-plated matt	0 070 713	50 set

Set, including cap mount and fixing screws. For glass thicknesses 5.5 –

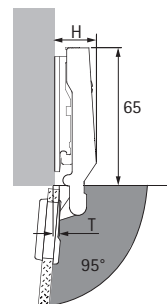


- ▶ Intermat 9904 for glass doors
- ▶ 95° opening angle

Minimum reveal per door

[illegible]

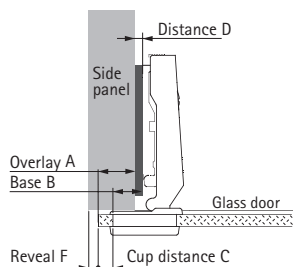
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 5.5 mm

Door mounting option	H mm	T mm
Full overlay	19.0	4.0
Half overlay	23.0	12.5
Inset	29.5	19.0

Full overlay

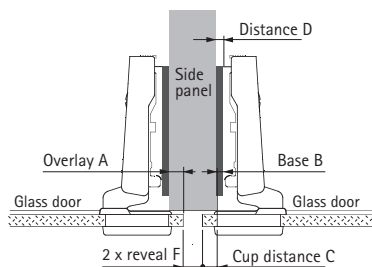


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

$$= \text{cup distance C} + 11 \text{ mm} - \text{overlay A}$$

[illegible]

Half overlay

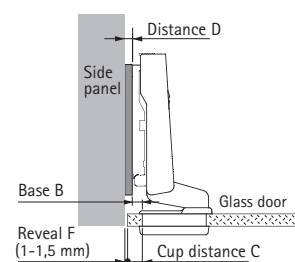


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

$$= \text{cup distance C} + 2.5 \text{ mm} - \text{overlay A}$$

[illegible]

Inset



$$\text{Distance D} = \text{C} + \text{B} + \text{F}$$

$$= \text{cup distance C} - 4 \text{ mm} + \text{reveal F}$$

[illegible]

Useful information

- ▶ For mounting plates and accessories, see page 88 - 90, 96 - 97
- ▶ For Push to open opening system, see page 124 - 139
- ▶ For fitting information, installation notes and quality criteria., see page 82 - 87

Fast assembly concealed hinge

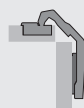
- Intermat 9930 for corner cabinet folding doors
- 50° / 65° opening angle



- Concealed hinge with clip on installation
- Quality classification under EN 15570, Level 2
- Cup diameter 35 mm
- Cup depth 10.5 mm (11.3 mm Fix)
- Diagonal adjustment + 9.5 mm / - 9.5 mm
- Integrated overlay adjustment, see sketch
- For integrated depth adjustment, see sketch
- Height adjustment at mounting plate
- Hinge arm material: zinc die-cast nickel plated
- Hinge cup material: nickel plated steel

Intermat 9930, opening angle 50° / 65°

Overlay



Base B 24 mm

PU

Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm		
For screwing on TH 42		-	0 045 036	50 ea.
For pressing in TH 43		$\varnothing 10 \times 11$	0 045 037	50 ea.
With premounted expanding sockets TH 48		$\varnothing 10 \times 11$	9 044 823	50 ea.



Fast assembly concealed hinge

- ▶ **Intermat 9930 for corner cabinet folding doors**
- ▶ **50° / 65° opening angle**

Version A - Cup drill holes in one door

- ▶ All cup drillings in one door
- ▶ Hairline reveal can be provided between door units
- ▶ No cutaway in cup holes necessary
- ▶ Same door width for both elements
- ▶ Diagonal adjustment capability for easy adjustment to door thickness
- ▶ Same cup distance on both sides of side mounted door
- ▶ Hole line distance of 37 mm in the folding door panel
- ▶ For door thickness 16 - 21 mm
- ▶ Cup distance C 3 - 6 mm

Version A - Calculation of door width

Door width = carcase width - reveal F - door thickness

Version A - Calculation of mounting plate distance

For cup distance C = 4.5 mm: Distance D = 0 mm

For cup distance C = 3.0 mm: Distance D = 1.5 mm

Differing cup distances can be evened out by depth and diagonal adjustment capability.

Version B - Cup drill holes in both doors

- ▶ Both door units are the same
- ▶ No cutaway in cup holes necessary
- ▶ Diagonal adjustment capability for easy adjustment to door thickness
- ▶ Hole line distance of 41 mm in the side mounted door
- ▶ For door thickness 16 - 21 mm
- ▶ Cup distance C 3 - 6 mm

Version B - Calculation of door width

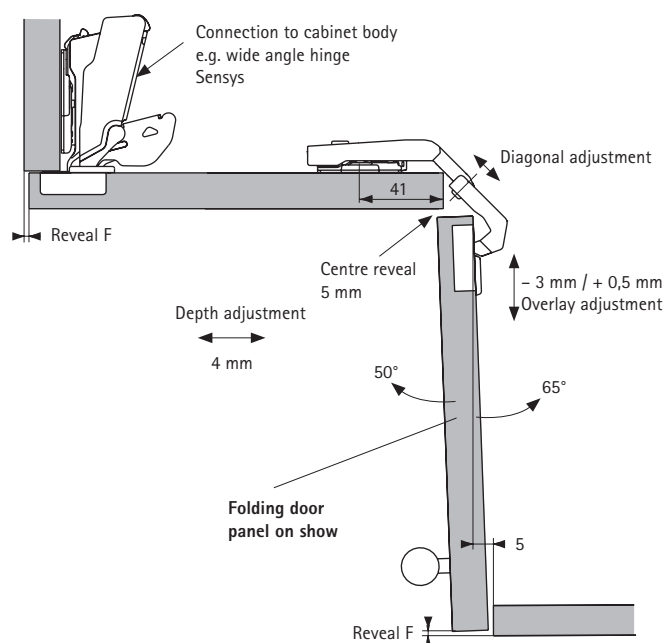
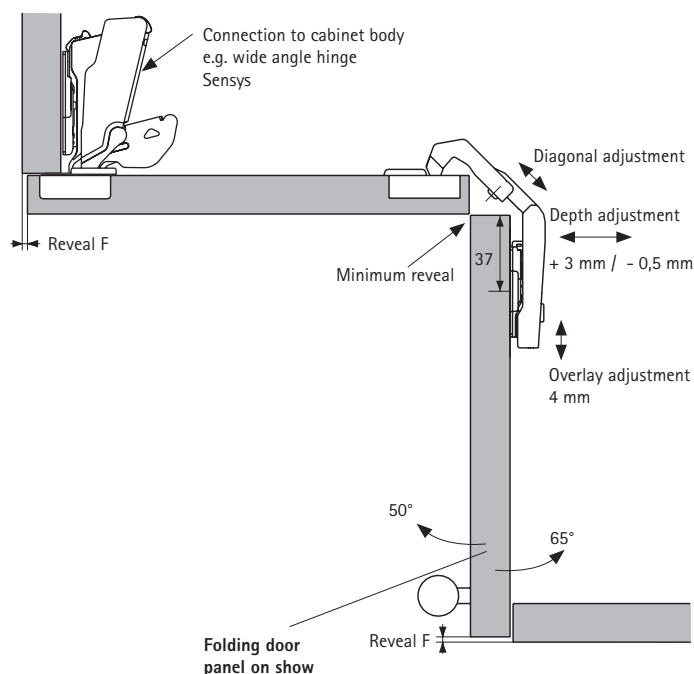
Door width = carcase width - reveal F - door thickness - 5 mm

Version B - Calculation of mounting plate distance

For cup distance C = 4.5 mm: Distance D = 0 mm

For cup distance C = 3.0 mm: Distance D = 1.5 mm

Differing cup distances can be evened out by depth and diagonal adjustment capability.



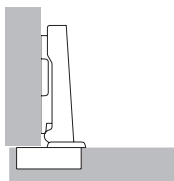
Useful information

- ▶ For mounting plates and accessories, see page 88 - 90, 96 - 97
- ▶ For Push to open opening system, see page 124 - 139
- ▶ For fitting information, installation notes and quality criteria., see page 82 - 87

Fast assembly concealed hinge

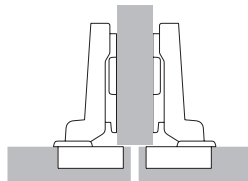
- Intermat
- Fitting information

Full overlay door



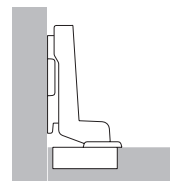
The door is in front of the carcass side and only a small gap remains at the side within which the door can open reliably. Alternatively, the door can also be overlaid fully. In this case sufficient space must be allowed at the side for the required minimum reveal. Straight hinges are used.

Half overlay door



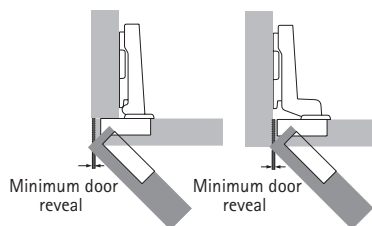
This is where two doors are positioned in front of a cabinet centre panel, with the required overall reveal between them (at least 2 x minimum reveal). In other words, each door has a smaller overlay and cranked hinges are therefore used.

Inset door



The door is positioned inside the carcass, i.e. next to the carcass side. Here too, a gap is needed so that the door can open reliably. Highly cranked hinges are used here. For an inset door, the mounting plate must be set back by the door thickness + 1 mm as well as by any any chosen door offset.

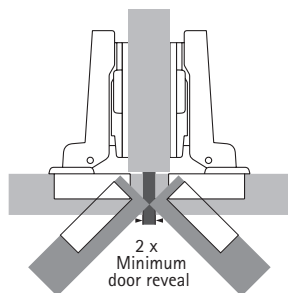
Minimum reveal



For full overlay and inset doors

The minimum reveal (also known as the door clearance or minimum clearance) is the space required at the side so that the door can open. The size of the minimum reveal depends on the cup distance C, the door thickness and the type of hinge selected. Radii on the door edges reduce the door

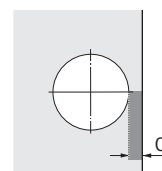
Minimum reveal



For half overlay doors

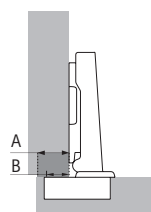
The total reveal selected between the doors must be at least twice the door clearance. Both doors can then be opened at the same time.

Cup distance C



Cup distance C is the distance between the door edge and the edge of the cup drilling. The greater the distance selected for cup distance C, the smaller door clearance

Overlay / Base



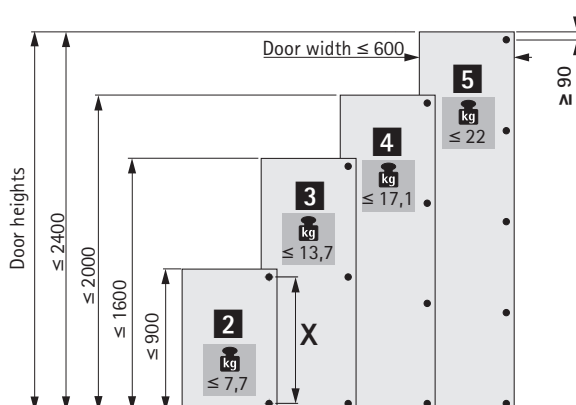
A = Overlay
B = Base

Overlay refers to the projection of the door in front of the carcass side. Base refers to the projection of the cup in front of the carcass side for a mounting plate dis-

Number of hinges per door

Door width, height and weight as well as the material quality of the door are decisive factors determining the number of hinges required.

The factors encountered in practice differ widely from case to case. For this reason, the number of hinges specified in the diagram must be understood as a guide only. If in doubt, it is recommended to carry out a trial mounting and adjust the number of hinges as necessary. For reasons of stability, space X between the hinges must always be made



Fast assembly concealed hinge

- Intermat
- Fitting information

General calculation of distances

Mounting plates are available in various distances. The effective height of the mounting plate is defined by distance D. Distance D is embossed on the top of each mounting plate. A larger distance D reduces overlay for full and half overlay applications. On inset doors, a larger distance

D increases the door reveal. Before determining the required distance, check whether the desired reveal is equal to or greater than the required minimum reveal. If the desired reveal is less than the required minimum reveal, the required minimum reveal can be reduced by

Calculation of distances

For full overlay and half overlay doors

The required distance D can be determined after checking the minimum reveal. Ideally, the door reveal and cup distance should be selected to produce a distance D that is available as mounting plate.

Example: Working out distances according to the table

Overlay = 14 mm and cup distance C = 4.5 mm yield a distance D equal to 3.0 mm.

Example: Working out distances using the calculation formula

Hinge for full overlay door, base B = 12.5 mm

Distance D = Cup distance C + base B - overlay A

Distance D = 4.5 mm + 12.5 mm - 14 mm = 3.0 mm

Intermediate distances not available as mounting plate distances are achieved by adjusting the hinge overlay.

Overlay mm	Cup distance C mm					
	3,0	4,0	4,5	5,0	6,0	7,0
	Distance D mm					
10	5,5	6,5	7,0	7,5	8,5	9,5
11	4,5	5,5	6,0	6,5	7,5	8,5
12	3,5	4,5	5,0	5,5	6,5	7,5
13	2,5	3,5	4,0	4,5	5,5	6,5
14	1,5	2,5	3,0	3,5	4,5	5,5
15	0,5	1,5	2,0	2,5	3,5	4,5
16		0,5	1,0	1,5	2,5	3,5
17			0,0	0,5	1,5	2,5
18					0,5	1,5
19						0,5

Calculation of distances

For inset doors

When calculating the mounting plate distance using the table for the inset, allowance is automatically made for the reveal to be designated as the minimum reveal in relation to cup distance C and the door thickness in the minimum reveal table. If a reveal is to be produced that is larger than this minimum reveal, select a mounting plate distance of the appropriate size.

Example: Working out distances according to the table

According to the table, a door thickness = 20 mm and cup distance C = 4.5 mm produce a mounting plate distance of 1.5 mm. This gives the required minimum reveal, for example, of 1 mm. If a reveal of 2.5 mm is preferred instead, select a mounting plate distance which is 1.5 mm larger. In this example, therefore, a distance of 3 mm instead of 1.5 mm.

Example: Working out distances using the calculation formula

Hinge for inset application, base value B = - 4 mm

Distance D = cup distance C + base B + reveal F

Distance D = 4.5 mm - 4 mm + 1 mm = 1.5 mm

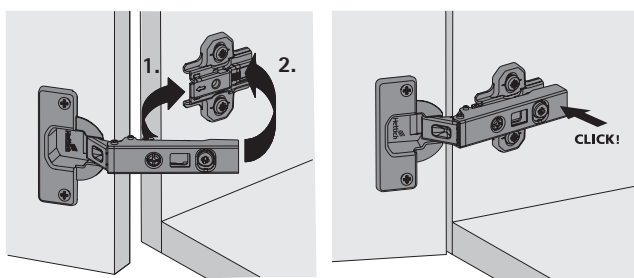
Intermediate distances not available as mounting plate distances

Door thickness mm	Cup distance C mm					
	3,0	4,0	4,5	5,0	6,0	7,0
	Distance D mm					
15		0,2	0,7	1,2	2,2	3,2
16		0,3	0,8	1,3	2,3	3,3
17		0,4	0,9	1,4	2,4	3,4
18		0,6	1,1	1,6	2,6	3,5
19		0,8	1,3	1,8	2,7	3,7
20	0,1	1,0	1,5	2,0	3,0	3,9
21	0,4	1,3	1,8	2,3	3,2	4,2
22	1,2	1,8	2,2	2,6	3,6	4,5

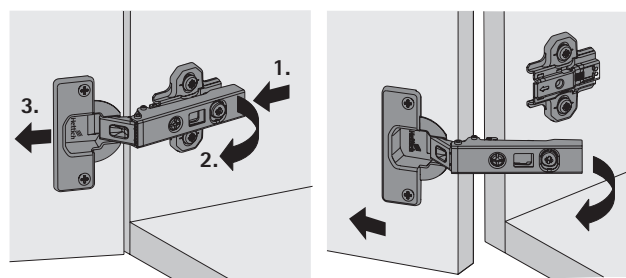
Fast assembly concealed hinge

- Intermat
- Installation notes

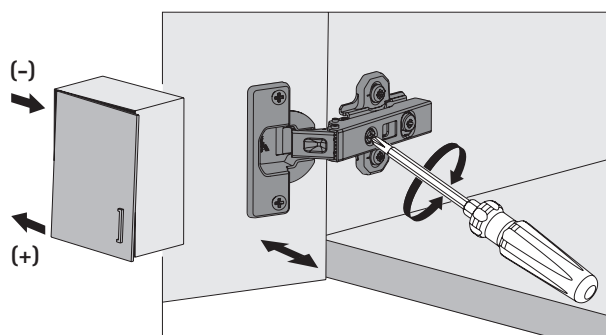
Installation



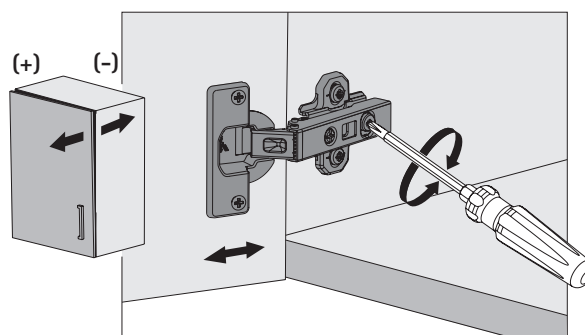
Removal



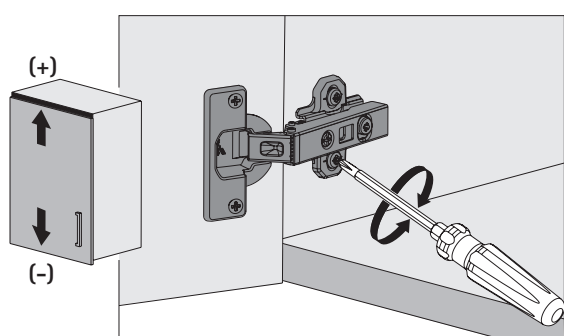
Overlay adjustment



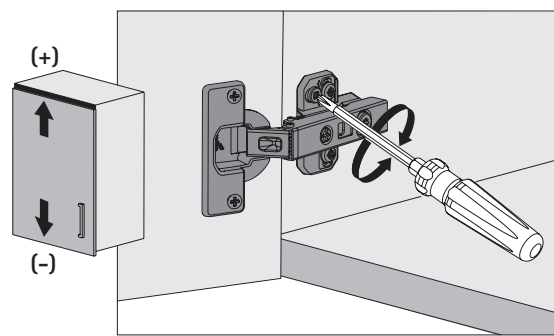
Depth adjustment



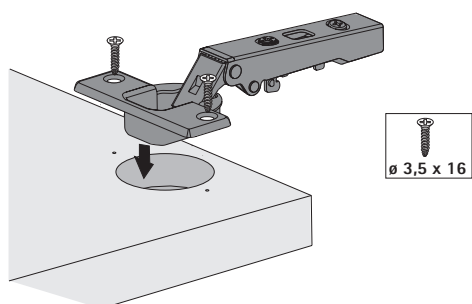
Oblong hole height adjustment



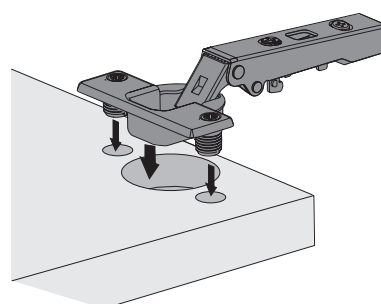
Eccentric cam height adjustment



Cup installation for screwing on



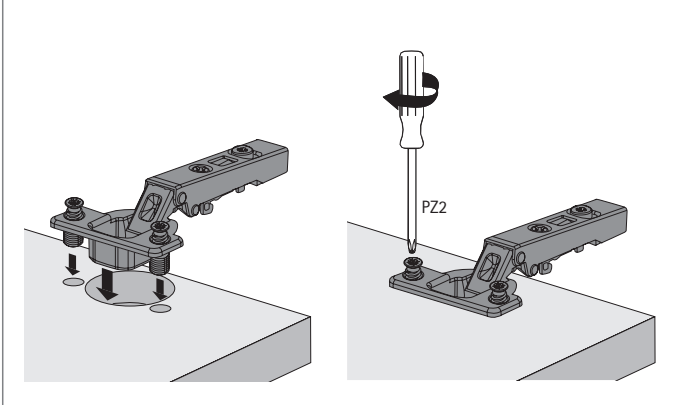
Cup installation for pressing in



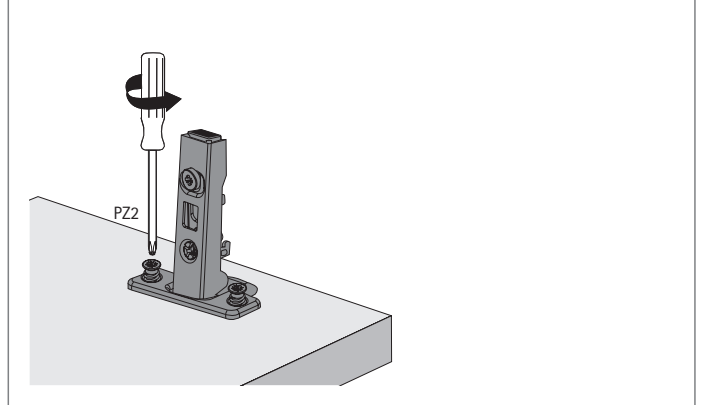
Fast assembly concealed hinge

- Intermat
- Installation notes

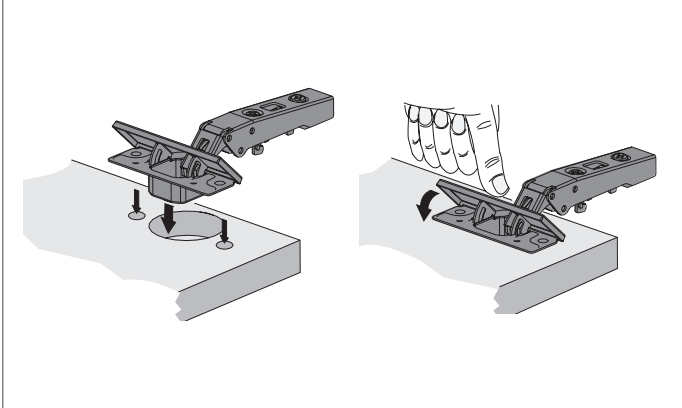
Cup installation with premounted expanding sockets



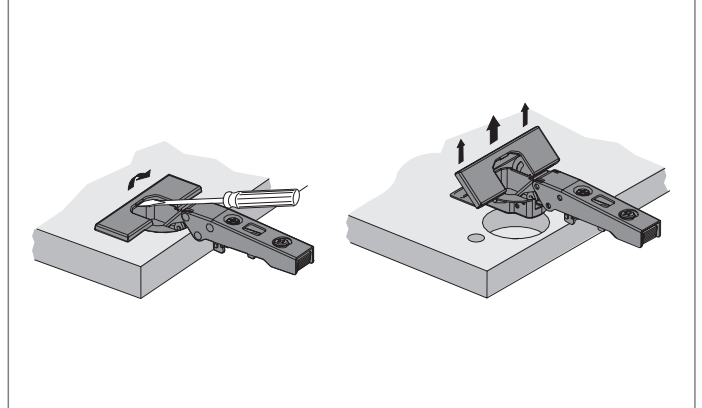
Removing with premounted expanding sockets



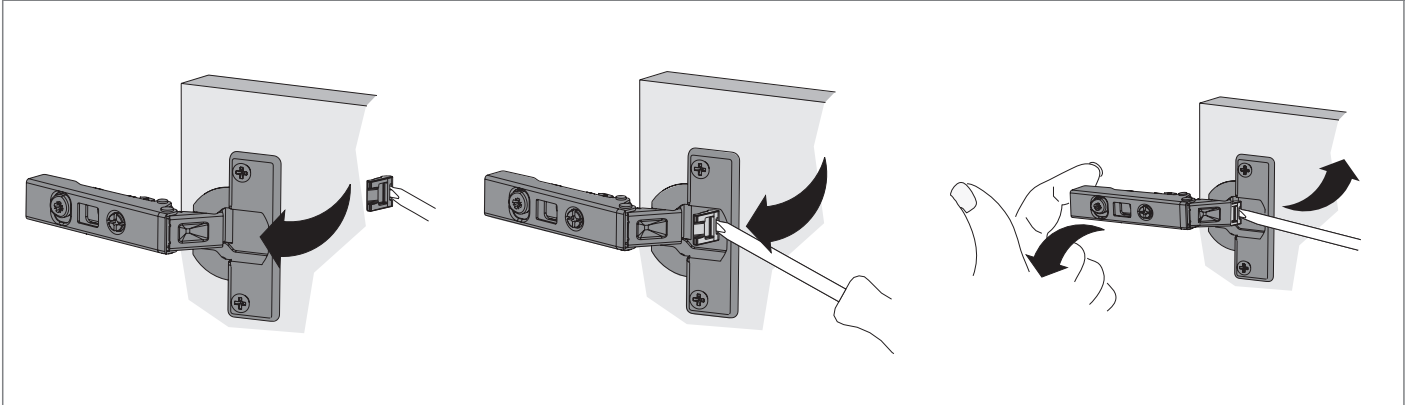
Fix cup installation



Removing Fix



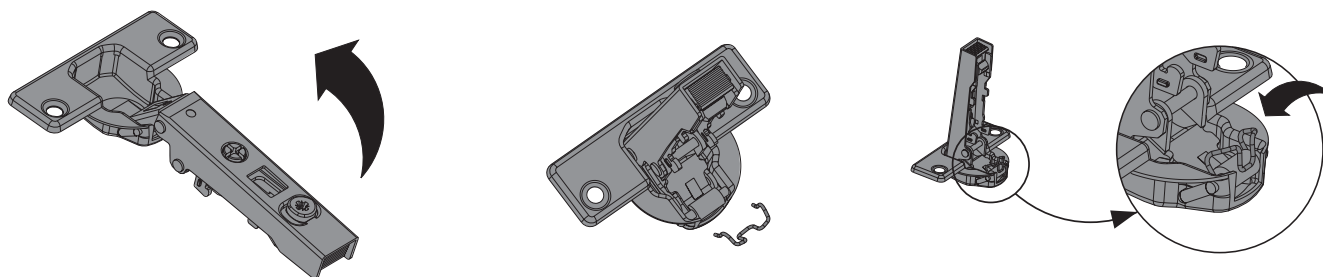
Installing opening angle limiter for Intermat 9943 / 9973



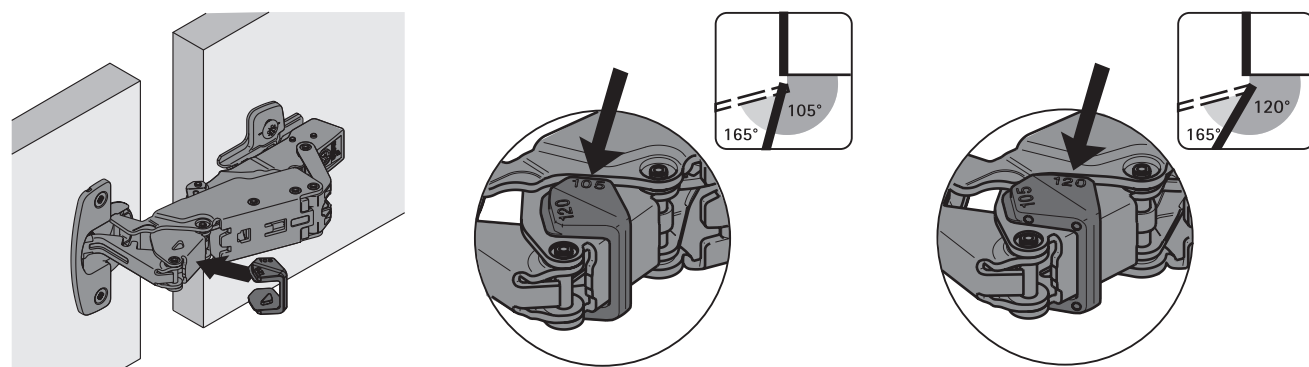
Fast assembly concealed hinge

- Intermat
- Installation notes

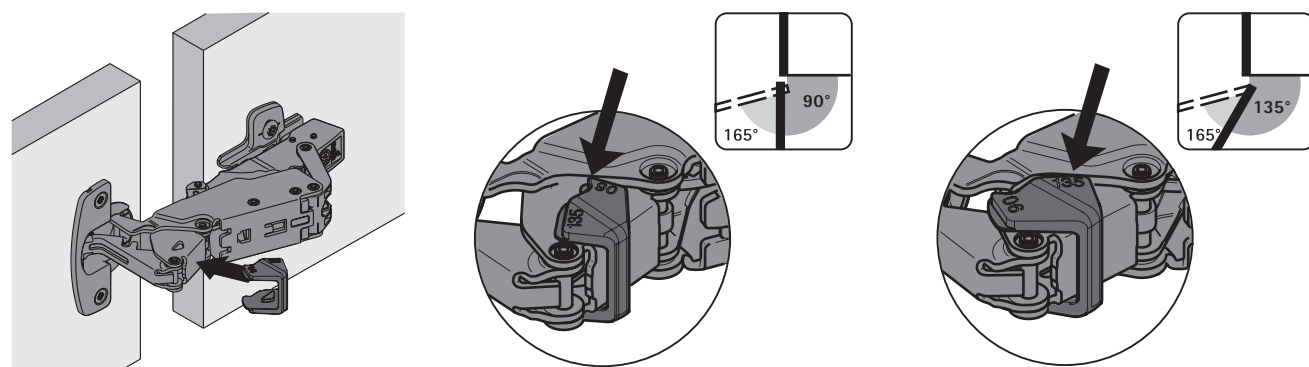
Installing opening angle limiter for Intermat 9936 / 9936 W / 9966 W



Installing the opening angle limiter for Sensys zero protrusion hinge



Installing the opening angle limiter for Sensys zero protrusion hinge



Fast assembly concealed hinge

- Intermat
- Quality criteria

Quality that meets all the demands

Quality that meets all the demands

The quality of hinges is subject to a process of continuous monitoring. Hettich fittings comply with the national and international quality standards of the markets our customers operate in. The diagrams below show examples of the principles behind some of the testing processes.

Application

Hettich hinges can be used in living room, kitchen, bathroom and office furniture both in the home and business environment.

Load capacity

The quality levels indicated on products comply with the requirements

of EN 15570 and satisfy the overload tests at the specified level. We will be pleased to provide any further information you may require.

Corrosion test

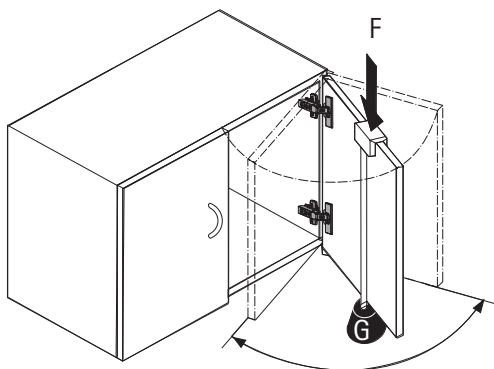
Hettich hinges satisfy the corrosion requirements under EN ISO 9227-2012 in accordance with the 48 h neutral salt spray test (NSS) as well as DIN EN ISO 6270-2-2012 in accordance with the 96 h alternating condensation water climate test with alternating air humidity and temperature (AHT).

Quality assurance

The processes for assuring the quality of Hettich hinges are certified

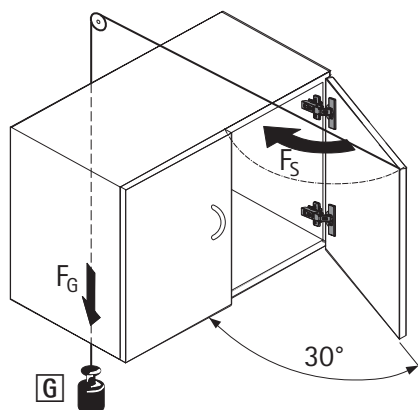
Endurance test

The door is subjected to a specific number of opening and closing cycles.



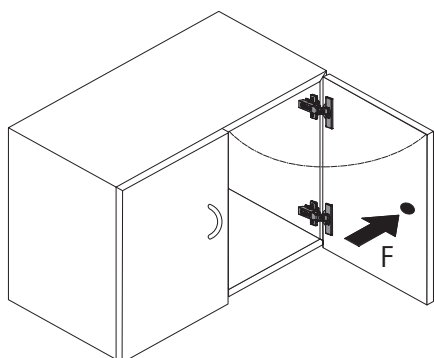
Closing test

The door is opened by 30° and pushed closed from this position by means of a pulley and falling weight.



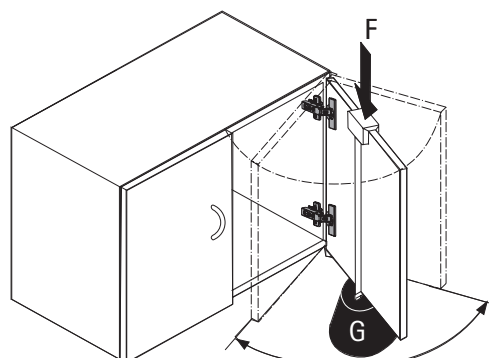
Horizontal test

The door is over opened with a defined test force F. (This test only applies to hinges with an opening angle < 135°.)



Vertical test

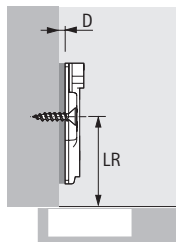
The door is subjected to a specific number of opening and closing cycles under a defined additional load G.



Fast assembly concealed hinge

- ▶ System 8099 mounting plates – with oblong hole height adjustment
- ▶ For Sensys and Intermat

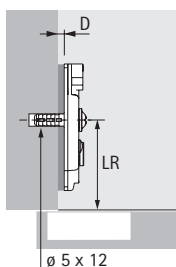
Cross mounting plate for screwing on



- ▶ For 4.5 mm $\varnothing$ x 16 mm countersunk screws
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 3 mm

Hole line distance LR mm	Order no. / Distance D mm					PU
	0,0	1,5	3,0	5,0	8,0	
37	9 071 575	9 071 576	9 071 577	9 071 578	9 071 579	200 ea.

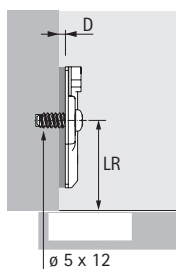
Cross mounting plate with expanding sockets and special screws



- ▶ For $\varnothing$ 5 x 12 mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 2 mm

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 071 595	9 071 596	9 071 597	9 071 598	200 ea.

Cross mounting plate with premounted Euro screws



- ▶ For $\varnothing$ 5 x 12 mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 3 mm

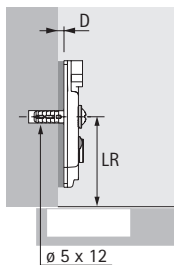
Hole line distance LR mm	Order no. / Distance D mm					PU
	0,0	1,5	3,0	5,0	8,0	
37	9 071 625	9 071 626	9 071 627	9 071 628	9 071 629	200 ea.



Fast assembly concealed hinge

- ▶ System 8099 mounting plates with eccentric cam height adjustment
- ▶ For Sensys and Intermat

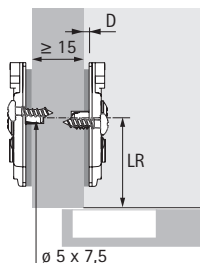
Cross mounting plate with expanding sockets and special screws



- ▶ For $\varnothing 5 \times 12$ mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Eccentric cam height adjustment ± 2 mm

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 071 655	9 071 656	9 071 657	9 071 658	200 ea.

Patented "Hettich Direkt" cross mounting plate with locating pin and special screws



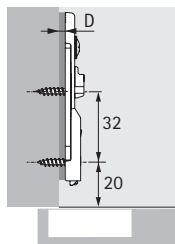
- ▶ For $\varnothing 5 \times 7.5$ mm holes
- ▶ Quality classification under EN 15570, Level 2
- ▶ Hole spacing 32 mm
- ▶ Half overlay door, from 15 mm side panel thickness
- ▶ Eccentric cam height adjustment ± 2 mm

Hole line distance LR mm	Colour	Order no. / Distance D mm				PU
		0,0	1,5	3,0	5,0	
37	Nickel	9 071 650	9 071 651	9 071 652	9 071 653	200 ea.
	Obsidian Black	9 091 811	9 091 812	9 091 813	9 091 814	50 ea.

Fast assembly concealed hinge

- ▶ System 8099 mounting plates – with oblong hole height adjustment
- ▶ For Sensys and Intermat

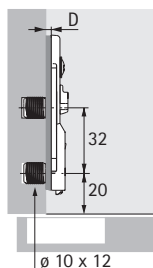
Linear mounting plate for screwing on



- ▶ For 3.5 mm $\varnothing$ x 16 mm countersunk screws
- ▶ Quality classification under EN 15570, Level 3
- ▶ Eccentric cam height adjustment ± 2 mm

Hole line distance LR mm	Colour	Order no. / Distance D mm		PU
		1,5	3,0	
20	Nickel	9 117 341	9 117 342	50 ea.
	Obsidian Black	9 117 471	9 117 472	50 ea.

Linear mounting plate for pressing in



- ▶ For $\varnothing 10$ x 12 mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Eccentric cam height adjustment ± 2 mm

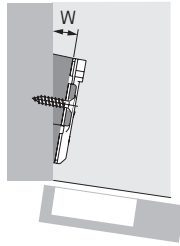
Hole line distance LR mm	Order no. / Distance D mm		PU
	1,5	3,0	
20	9 117 344	9 117 388	50 ea.



Fast assembly concealed hinge

- Accessories
- For Sensys

Angle adapter for cross mounting plates



- For realizing face angle applications
- 5° angle adapter can be stacked on the other angle adapters
- A trial mounting is recommended

Hole line distance LR mm	Angle W°	Order no.	PU
37	5	9 072 533	50 ea.
37	10	9 072 534	50 ea.
37	15	9 072 535	50 ea.
37	20	9 072 536	50 ea.

Can only be used with LR37 cross mounting plates for screwing on;

Fast assembly concealed hinge

- Accessories
- For Sensys

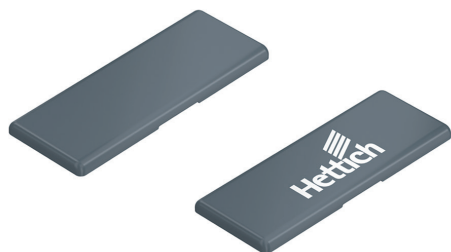
Cover cap for Sensys hinge arm



- Can be used with Sensys hinges apart from 8657i / 8657 / 8687
- Cover caps with customised embossed or printed logo on request
- Steel, nickel plated or obsidian black

Type	Order no.	PU
Nickel, neutral	9 088 249	50 ea.
Nickel embossed with Hettich logo	9 088 250	50 ea.
Obsidian Black embossed with Hettich logo	9 091 821	50 ea.

Cover cap for Sensys zero protrusion hinge



- Can be used with Sensys hinges 8657i, 8657, 8687
- Cover caps with customised print available on request

Type	Order no.	PU
Neutral	9 099 870	50 ea.
Printed with Hettich logo	9 099 871	50 ea.

Cover cap for Sensys hinge cup



- Can be used for hinges with cup in Sensys design
- Can be used for all attachment options apart from Fix and premounted

Type	Dimension X mm	Order no.	PU
Nickel, for TH	68,2	9 088 251	50 ea.
Obsidian Black, for TH / TS	69,2	9 091 822	50 ea.



Fast assembly concealed hinge

- Accessories
- For Sensys

Soft opening for Sensys zero protrusion hinge



- Can be used with Sensys hinge 8657i
- Cannot be combined with opening angle limiter for 8657i
- Plastic, anthracite

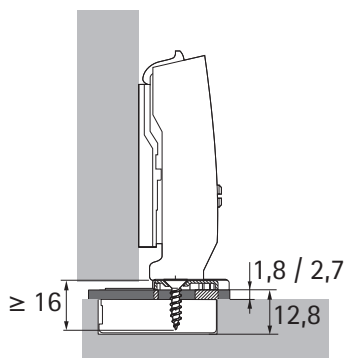
Door mounting option	Order no.	PU
Full overlay	9 100 037	50 ea.

Adapter for reducing drilling depth



- To reduce the required depth of the cup drilling in thin or highly softened doors
- Can be used with hinge cup for screwing on
- The gap between carcase and door increases by the thickness of the adapter
- Attachment by $\varnothing 4 \times 16$ mm countersunk screws

Type	Thickness mm	Order no.	PU
For TH 52 cup	1,8	9 073 595	50 ea.



Fast assembly concealed hinge

- Accessories
- For Sensys

Opening angle limiter for Sensys 8645i



- For reducing the opening angle of doors with adjoining elements
- Avoids damage to the front panel
- Also suitable for hinges without Silent System, without self closing feature
- Plastic, white

Type	Order no.	PU
Limitation from 110° to 85°	9 072 540	50 ea.

Opening angle limiter for Sensys 8639i W



- For reducing the opening angle of doors with adjoining elements
- Avoids damage to the front panel
- Also suitable for hinges without Silent System, without self closing feature
- Plastic, black
- For installation notes, see Technical information

Type	Order no.	PU
Limitation from 95° to 85°	9 072 541	50 ea.

Opening angle limiter for Sensys 8657i



- For reducing the opening angle of doors with adjoining elements
- Avoids damage to the front panel
- Also suitable for hinges without Silent System, without self closing feature
- Plastic, anthracite

Type	Order no.	PU
Limitation from 165° to 105° or 120°	9 090 756	50 ea.

Opening angle limiter for Sensys 8657i



- For reducing the opening angle of doors with adjoining elements
- Avoids damage to the front panel
- Also suitable for hinges without Silent System, without self closing feature
- Plastic, anthracite

Type	Order no.	PU
Limitation from 165° to 90° or 135°	9 090 864	50 ea.



Fast assembly concealed hinge

- ▶ Accessories
- ▶ For Sensys

Opening angle limiter for Sensys 8631i



- ▶ For reducing the opening angle of doors with adjoining elements
- ▶ Avoids damage to the front panel
- ▶ Also suitable for hinges without Silent System, without self closing feature
- ▶ Steel

Type	Order no.	PU
Limitation from 95° to 85°	9 103 006	50 ea.

Aid for installing opening angle limiter



- ▶ Can be used with the following opening angle limiters
 - Order no. 9 072 540 for Sensys 8645i / 8645 / 8675

Order no.	PU
9 081 657	100 ea.

Fast assembly concealed hinge

- Accessories
- For Intermat

Cover cap for Intermat hinge arm



- Can be used with Intermat hinges
- Cover caps with customised embossed or printed logo on request
- Steel, nickel plated

Type	Order no.	PU
Neutral	9 101 552	50 ea.
Embossed with Hettich logo	9 102 082	50 ea.

Opening angle limiter for Intermat 9943



- For reducing door opening angle to avoid collisions with adjoining elements
- Avoids damage to the front panel
- Also suitable for hinges without self closing feature

Order no.	PU
9 088 253	50 ea.

Screw and sleeve



- Press in sleeve and screw
- Used for example, to replace hinges with cup assembly for pressing in
- ø 10 x 11 mm
- Colourless plastic / steel, nickel plated

Order no.	PU
0 045 169	200 set

Fixing screw for aluminium framed door hinge



- Countersunk head
- Pozidrive screw
- ø 3.5 x 16 mm

Order no.	PU
0 041 296	200 ea.

Cover cap ø 35 mm



- For drilling ø 35 mm x 9.5 mm

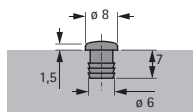
Colour	Order no.	PU
White	0 025 204	100 ea.



Fast assembly concealed hinge

- Accessories
- For Intermat

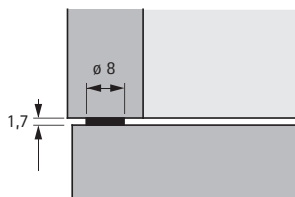
Door damper for pressing in



- For drilling $\varnothing 6 \text{ mm} \times 7 \text{ mm}$

Colour	Order no.	PU
White	0 025 048	1000 ea.

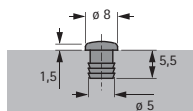
Door damper for sticking on



- $\varnothing 8 \text{ mm}$, Self adhesive
- 75 buffers per sheet
- Plastic, transparent

Order no.	PU
0 072 120	50 ea.

Door damper for pressing in



- For drilling $\varnothing 5 \text{ mm} \times 5.5 \text{ mm}$

Order no.	PU
9 079 298	1000 ea.

Fixing screw for hinge cup for screwing on



- Countersunk head
- Pozidrive screw
- $\varnothing 3.5 \times 16 \text{ mm}$

Order no.	PU
1 004 895	1000 ea.

Shallow countersunk head



- Shallow countersunk head
- Pozidrive screw
- Steel, galvanised

Dimensions mm	Order no.	PU
$\varnothing 6.3 \times 11$	0 047 451	200 ea.

Deep countersunk head



- Deep countersunk head
- Pozidrive screw
- Steel, galvanised

Dimensions mm	Order no.	PU
$\varnothing 6.3 \times 14$	0 047 452	200 ea.

Fast assembly concealed hinge

► Veosys with integrated Silent System



The stainless steel hinge for the New Zealand outdoors.

Its stainless steel finish makes the Veosys hinge from Hettich a robust all rounder. Not affected by temperature fluctuations and moisture, Veosys comes with tested

resistance to corrosion. With Hettich's integrated Silent System, the soft-closing functionality keeps working over a broad temperature range. And with its uniquely wide self closing angle of 35°, Veosys closes doors almost by itself.



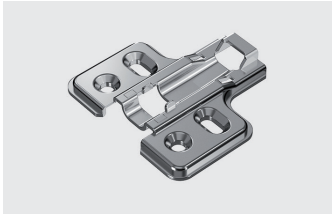
Fast assembly concealed hinge

- ▶ Veosys
- ▶ Range summary



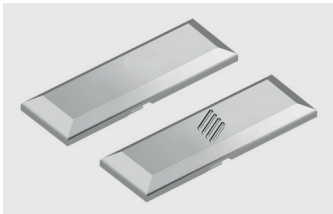
Veosys 105° hinge
105° opening angle

100 – 101



Mounting plates

102



Accessories

103

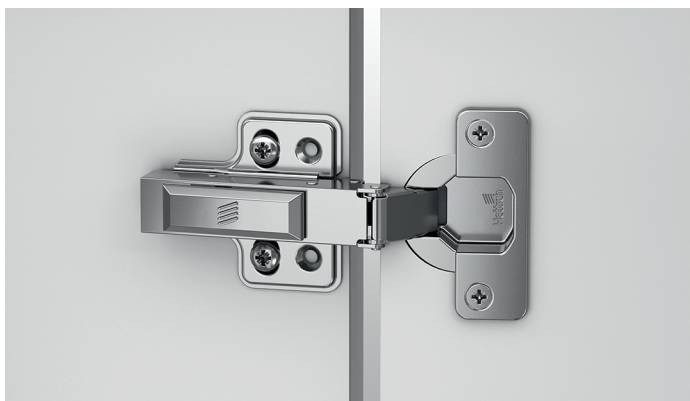


Technical information
▶ fitting information

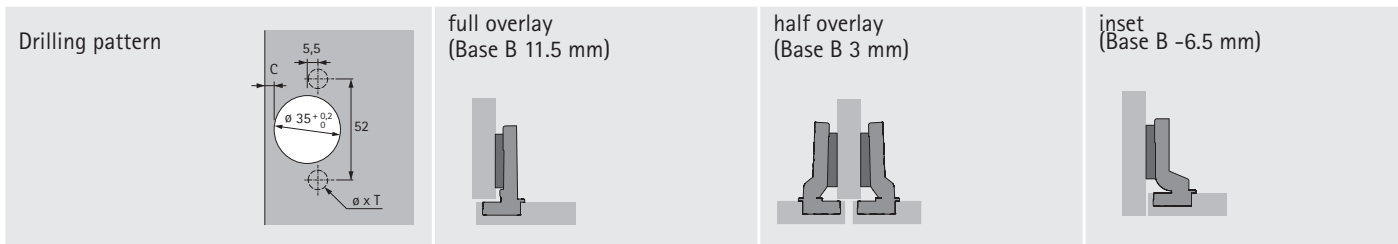
104 – 106

Fast assembly concealed hinge

- ▶ **Veosys 105° Stainless steel hinge**
- ▶ **105° opening angle, drilling pattern TH 52 x 5.5 mm**



- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ Quality classification under EN 15570, Level 2
- ▶ Corrosion proof, 120h NSS (neutral salt spray test) to DIN EN ISO 9227
- ▶ For door thickness of 14 - 22 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11.5 mm
- ▶ Integrated overlay adjustment + 2.5 mm / - 2.5 mm
- ▶ Integrated depth adjustment + 2 mm / - 1.5 mm
- ▶ Height adjustment at mounting plate
- ▶ Stainless steel



With integrated Silent System, with self closing feature

Cup assembly	Mounting hole $\varnothing \times T$ mm	Order no.			PU
		full overlay	half overlay	inset	
for screwing on	-	9 289 590	9 289 592	9 289 595	200 ea.



Fast assembly concealed hinge

- Veosys 105° Stainless steel hinge
- 105° opening angle

Minimum reveal per door

Door thickness mm	Cup distance C mm									
	3.0	4.0	5.0	6.0	7.0					
14	0.3	0.3	0.2	0.2	0.2					
15	0.5	0.5	0.4	0.4	0.4					
16	0.7	0.7	0.6	0.6	0.5					
17	0.9	0.9	0.9	0.8	0.8					
18	1.2	1.1	1.1	1.1	1.0					
19	1.5	1.4	1.4	1.3	1.3					
20	1.8	1.8	1.7	1.6	1.6					
21	2.2	2.1	2.0	2.0	1.9					
22	2.6	2.5	2.4	2.4	2.3					

Note:

The values in the table refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

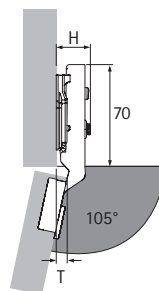
Radius 0 mm:

Values in table + 0.4 mm

Radius 3 mm:

Values in table - 0.6 mm

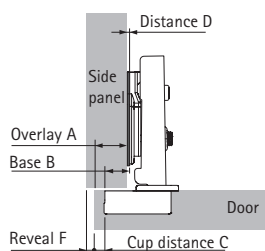
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door mounting option	H mm	T mm
full overlay	20.0	7.5
half overlay	30.0	17.0
inset	37.0	24.0

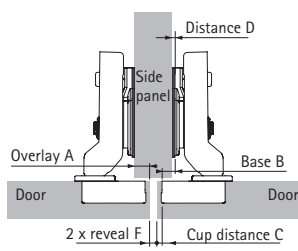
full overlay



Distance D = C + B - A
= cup distance C + 11.5 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	5.0	6.0	7.0					
Distance D mm										
10	4.5	5.5	6.5	7.5	8.5					
11	3.5	4.5	5.5	6.5	7.5					
12	2.5	3.5	4.5	5.5	6.5					
13	1.5	2.5	3.5	4.5	5.5					
14	0.5	1.5	2.5	3.5	4.5					
15		0.5	1.5	2.5	3.5					
16			0.5	1.5	2.5					
17				0.5	1.5					
18					0.5					

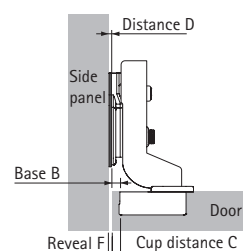
half overlay



Distance D = C + B - A
= cup distance C + 3 mm - overlay A

Overlay mm	Cup distance C mm									
	3.0	4.0	5.0	6.0	7.0					
Distance D mm										
0.5	5.5	6.5	7.5	8.5	9.5					
1.5	4.5	5.5	6.5	7.5	8.5					
2.5	3.5	4.5	5.5	6.5	7.5					
3.5	2.5	3.5	4.5	5.5	6.5					
4.5	1.5	2.5	3.5	4.5	5.5					
5.5	0.5	1.5	2.5	3.5	4.5					
6.5		0.5	1.5	2.5	3.5					
7.5			0.5	1.5	2.5					
8.5				0.5	1.5					
9.5					0.5					

inset



Distance D = C + B + F
= cup distance C - 6.5 mm + reveal F

Door thickness mm	Cup distance C mm									
	3.0	4.0	5.0	6.0	7.0					
Distance D mm										
14				0.7						
15				0.9						
16				0.1	1.0					
17				0.3	1.3					
18				0.6	1.5					
19				0.8	1.8					
20			0.2	1.1	2.1					
21			0.5	1.5	2.4					
22		0.0	0.9	1.9	2.8					

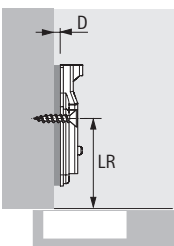
Useful information

- For mounting plates and accessories, see page 102 – 103
- For mounting options, assembly information, installation instructions and quality criteria, see page 104 – 105

Fast assembly concealed hinge

- ▶ Stainless steel mounting plates with oblong hole height adjustment
- ▶ For Veosys

Cross mounting plate for screwing on



- ▶ For 4.5 mm ø x 16 mm countersunk screws
- ▶ Quality classification under EN 15570, Level 2
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 3 mm
- ▶ Stainless steel

Hole line distance LR mm	Order no. / Distance D mm		PU
	0.0	2.0	
37	9 289 598	9 289 609	200 ea.



Fast assembly concealed hinge

- Accessories
- For Veosys

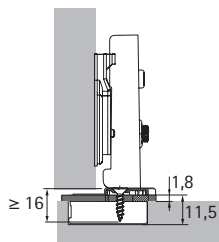
Cover cap for Veosys hinge arm



- Suitable for use with Veosys
- Stainless steel

Version	Order no.	PU
embossed with Hettich logo	9 289 610	200 ea.
neutral	9 289 611	200 ea.

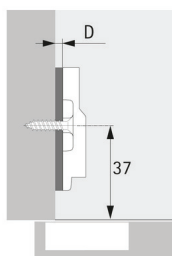
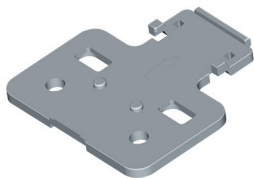
Adapter for reducing drilling depth



- To reduce the required depth of the cup drilling in thin or highly softened doors
- Can be used with hinge cup for screwing on
- The gap between cabinet body and door increases by the thickness of the adapter
- Attachment by $\varnothing 4 \times 16$ mm countersunk screws
- Transparent plastic
- Design for drilling pattern TH

Order no.	PU
9 306 263	50 ea.

Parallel adaptor for cross mounting plates



- For increasing mounting plate distance
- A trial mounting is recommended
- Plastic, grey

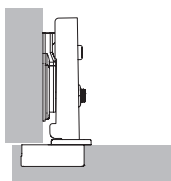
Distance D mm	Order no.	PU
3,0	9 289 695	50 ea.

Can only be used with Veosys cross mounting plates for screwing on,

Technical information

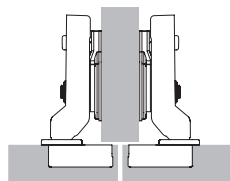
- Veosys
- Fitting information

Full overlay door



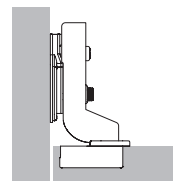
The door is in front of the cabinet side and only a small gap remains at the side within which the door can open reliably. Alternatively, the door can also be fully overlaid. In this case sufficient space must be allowed at the side for the required minimum reveal. Straight hinges are used.

Half overlay door



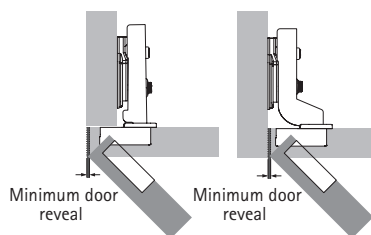
This is where two doors are positioned in front of a cabinet centre panel, with the required overall reveal between them (at least 2 x minimum reveal). In other words, each door has a smaller overlay and cranked hinges are therefore used.

Inset door



The door is positioned inside the cabinet body, i.e. next to the cabinet body side. Here too, a gap is needed so that the door can open reliably. Highly cranked hinges are used here. For an inset door, the mounting plate must be set back by the thickness of the door + 1 mm as well as by any chosen door offset.

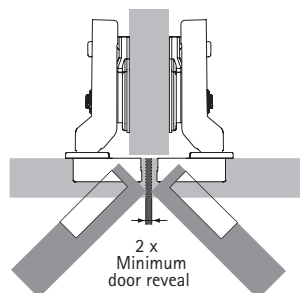
Minimum reveal



For overlay and inset door

The minimum reveal (also known as the door clearance or minimum clearance) is the space required at the side for opening the door. The size of the minimum reveal depends on the cup distance C, the door thickness and the type of hinge selected. Radii on the door edges reduce the door clearance.

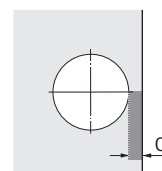
Minimum reveal



For half overlay doors

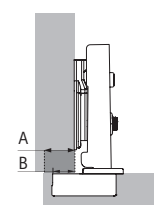
The total reveal selected between the doors must be at least twice the door clearance. Both doors can then be opened at the same time.

Cup distance C



Cup distance C is the distance between door edge and the edge of the cup drilling. The greater the distance selected for cup distance C, the smaller door clearance will be,

Overlay / Base



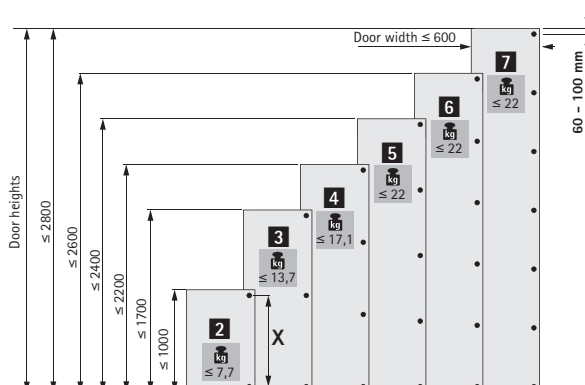
A = Overlay
B = Base

Overlay refers to the projection of the door in front of the cabinet body side. Base refers to the projection of the cup in front of the cabinet body side for a mounting plate

Number of hinges per door

Door width, height and weight as well as the material quality of the door are decisive factors determining the number of hinges required.

The factors encountered in practice differ widely from case to case. For this reason, the number of hinges specified in the diagram must be understood as a guide only. If in doubt, it is recommended to carry out a trial mounting and adjust the number of hinges as necessary. For reasons of stability, space X between the hinges must always be made as large as possible. Distance X must be at least



Technical information

- Veosys
- Fitting information

General calculation of distances

Mounting plates are available in various distances. The effective height of the mounting plate is defined by distance D. Distance D is embossed on the top of each mounting plate. A larger distance D reduces the overlay for full and half overlay applications. On inset doors, a larger distance D increases the door reveal. Before determining the required

distance, check whether the desired reveal is equal to or greater than the required minimum reveal. If the desired reveal is less than the required minimum reveal, the required minimum reveal can be reduced by increasing cup distance C or by producing radii on the door edges.

Calculation of distances

For overlay and half overlay doors

The required distance D can be determined after checking the minimum reveal. Ideally, door overlay and cup distance should be selected to produce distance D that is available as mounting plate.

Example: Distance determined using the table

Overlay = 14 mm and cup distance C = 4.5 mm yield a distance of 3.0 mm.

Example: Distance determined using the calculation formula

Hinge for overlay door, basis B = 12.5 mm

Distance D = Cup distance C + Basis B - Overlay A

Distance D = 4.5 mm + 12.5 mm - 14 mm = 3.0 mm

Intermediate distances not available as mounting plate distances are achieved by adjusting the hinge overlay.

Overlay mm	Cup distance C mm					
	3,0	4,0	4,5	5,0	6,0	7,0
	Distance D mm					
10	5,5	6,5	7,0	7,5	8,5	9,5
11	4,5	5,5	6,0	6,5	7,5	8,5
12	3,5	4,5	5,0	5,5	6,5	7,5
13	2,5	3,5	4,0	4,5	5,5	6,5
14	1,5	2,5	3,0	3,5	4,5	5,5
15	0,5	1,5	2,0	2,5	3,5	4,5
16		0,5	1,0	1,5	2,5	3,5
17			0,0	0,5	1,5	2,5
18					0,5	1,5
19						0,5

Calculation of distances

For inset doors

When calculating the mounting plate distance using the table for inset doors, allowance is automatically made for the reveal that is shown as the minimum reveal produced by cup distance C and door thickness in the table of minimum reveals. If a reveal is to be produced that is larger than this minimum reveal, select a mounting plate distance of the appropriate size.

Example: Distance determined using the table

From the table, a door thickness = 20 mm and cup distance C = 4.5 mm produces a mounting plate distance of 1.5 mm. This creates the required minimum reveal of 1 mm, for example. If a reveal of 2.5 mm is required instead, select a mounting plate distance 1.5 mm larger. In this example, that means a distance of 3 mm instead of 1.5 mm.

Example: Distance determined using the calculation formula

Hinge for inset application, basis B = - 4 mm

Distance D = cup distance C + basis B + reveal F

Distance D = 4.5 mm - 4 mm + 1 mm = 1.5 mm

Intermediate values not available as mounting plate distances are achieved by adjusting the hinge overlay.

Door thickness mm	Cup distance C mm					
	3,0	4,0	4,5	5,0	6,0	7,0
	Distance D mm					
15		0,2	0,7	1,2	2,2	3,2
16		0,3	0,8	1,3	2,3	3,3
17		0,4	0,9	1,4	2,4	3,4
18		0,6	1,1	1,6	2,6	3,5
19		0,8	1,3	1,8	2,7	3,7
20	0,1	1,0	1,5	2,0	3,0	3,9
21	0,4	1,3	1,8	2,3	3,2	4,2
22	1,2	1,8	2,2	2,6	3,6	4,5

Quality criteria

► Concealed hinges

Quality that meets all the demands

Quality that meets all the demands

The quality of hinges is subject to a process of continuous monitoring. Hettich fittings comply with the national and international quality standards of the markets our customers operate in. The diagrams below show examples of the principles behind some of the testing processes.

Application

Hettich hinges can be used in living room, kitchen, bathroom and office furniture.

Load capacity

The quality levels indicated on products comply with the requirements

of EN 15570 and satisfy the overload tests at the specified level. We will be pleased to provide any further information you may require.

Corrosion test

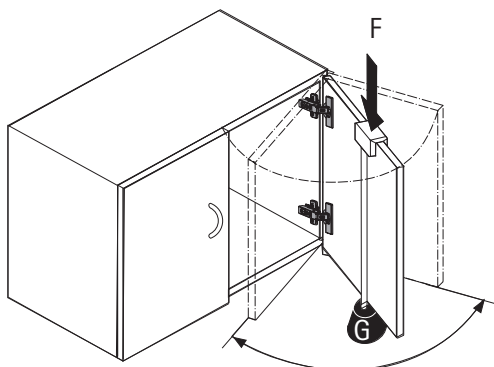
Hettich Veosys hinges satisfy the corrosion requirements under DIN EN ISO 9227-2012 in accordance with the 120 h neutral salt spray test (NSS) as well as DIN EN ISO 6270-2-2012 in accordance with the 120 h alternating condensation water climate test with alternating humidity and temperature (AHT).

Quality assurance

The processes for assuring the quality of Hettich hinges are certified

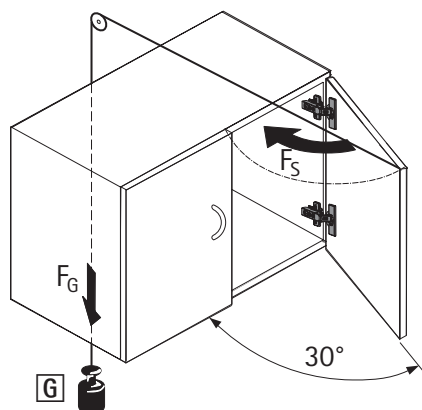
Endurance test

The door is subjected to a specific number of opening and closing cycles.



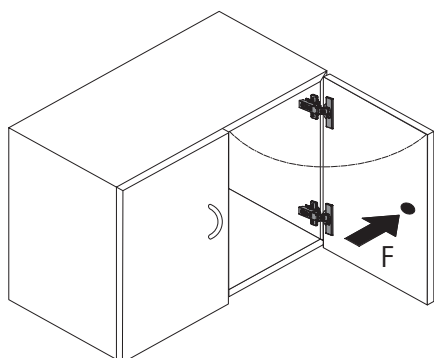
Closing test

The door is opened by 30° and pushed closed from this position by means of a pulley and falling weight.



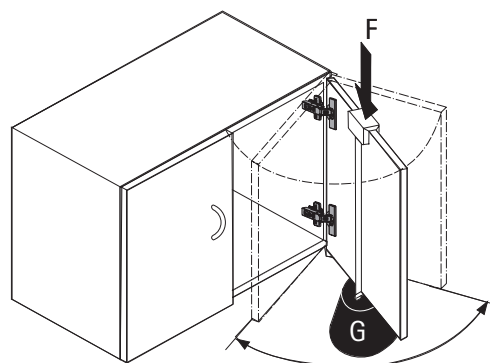
Horizontal test

The door is over opened with a defined test force F. (This test only applies to hinges with an opening angle < 135°.)



Vertical test

The door is subjected to a specific number of opening and closing cycles under a defined additional load G.





Flexibility and competency in meeting specific customer expectations

The range of special hinges provides the right fitting for particular applications, such as folding doors, refrigerator surrounds or flaps. It is also just as easy to produce designs

with thin front panel materials, front frame constructions, or cases where no cup drilling can be made.



For thin materials:

Glass door hinges for overlay or inset doors.



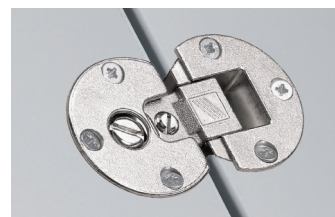
For folding doors:

Centre hinges in a variety of types.



For refrigerator surrounds:

Hinge with slim arm and door-on-door slider fitting for connecting furniture and refrigerator door.



For flaps:

Markant flap hinges for combining with a flap stay.



Special hinges

► Range summary



Centre hinges

110 - 111



Glass door hinges

112



Flap hinges

113



Optimat Plus 4 FM concealed hinge for front frame

114

Special hinge

- ▶ Centre hinge
- ▶ For folding doors, opening angle 180°

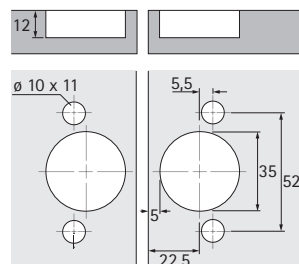
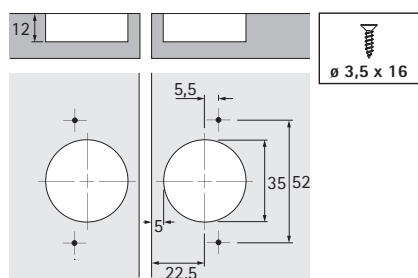


- ▶ Centre hinge for folding doors
- ▶ For door thicknesses over 15 mm
- ▶ Same drilling pattern for door and side element, both elements are mounted separately
- ▶ The reveal can be infinitely adjusted from minimum reveal to + 4 mm, application is always flush
- ▶ Gradual adjustment of the pivot offset with 0 mm, 3 mm and 6 mm
- ▶ Zinc die-cast, nickel plated

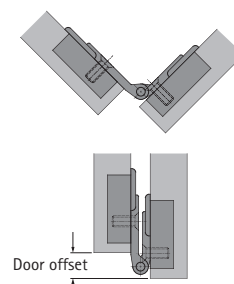
Centre hinge with adjustable offset pivot

Mounting option	Order no.	PU
For screwing on	0 046 787	10 ea.
For pressing in	0 052 095	10 ea.

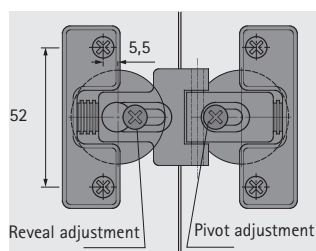
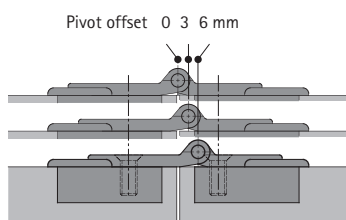
Drilling pattern for screwing on / for pressing in



Door offset



Pivot offset



Pivot offset mm	Door offset mm
0	0
3	6
6	12
By way of example for reveal = 3 mm	



Special hinge

- ▶ Centre hinge
- ▶ For folding doors, opening angle 180

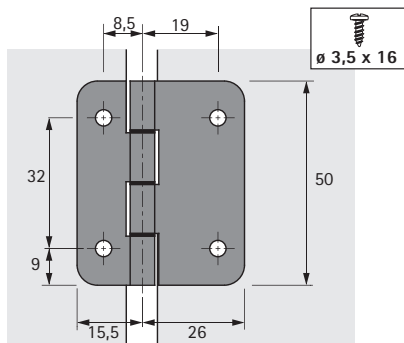
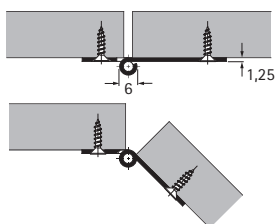


- ▶ Centre hinge for folding doors
- ▶ Can be installed at the centre or with pivot offset
- ▶ Top running performance due to abrasion-resistant distance rings with pivot bearing
- ▶ With fixed steel pin
- ▶ Steel, nickel plated

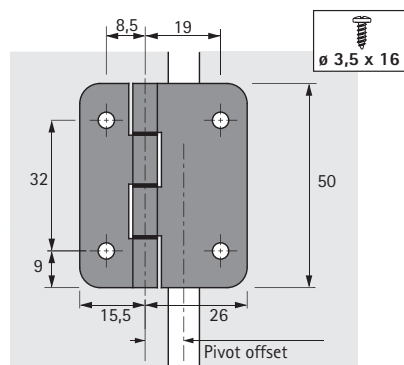
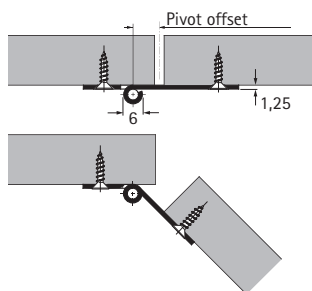
Centre hinge

Order no.	PU
0 071 648	10 ea.

Centred mounting



Mounting with pivot offset



Special hinge

- ▶ Glass door hinge ET 5150
- ▶ For inset doors



- ▶ Glass door hinge with stay close function for inset doors
- ▶ 170° opening angle
- ▶ ET 5150 and glass door handle: easy installation by clamping screw, no need to drill holes in the glass
- ▶ 12 mm ø hole must be drilled in the glass
- ▶ Hinge including stick on anti slip element
- ▶ Door format:
 - Height = inside carcase height - 4.4 mm
 - With glass door handle: width = inside carcase width - 5 mm
 - With other handle: width = inside carcase width - 4 mm
- ▶ Zinc die-cast, matt nickel plated

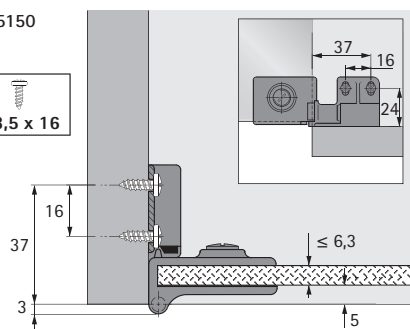
Glass door hinge ET 5150

Article	Order no.	PU
Glass door hinge ET 5150	0 024 908	1/20 pair
Glass door handle	0 025 314	1/20 ea.

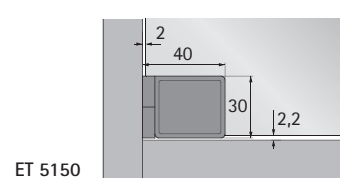
ET 5150

ET 5150

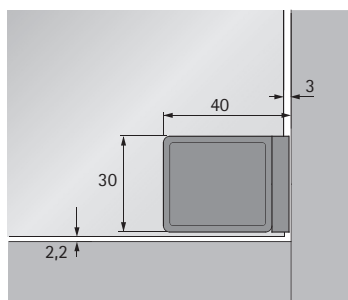
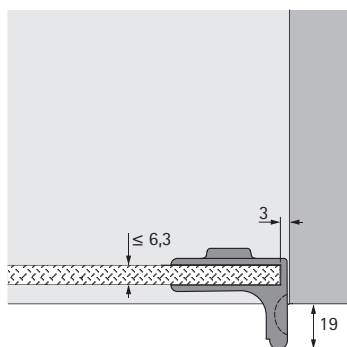
Ø 3,5 x 16



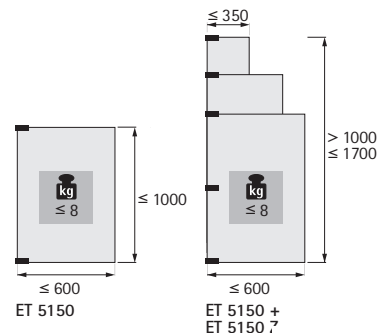
ET 5150



Glass door handle



Note



Special hinge

- Flap hinge Markant 11
- For overlay flaps

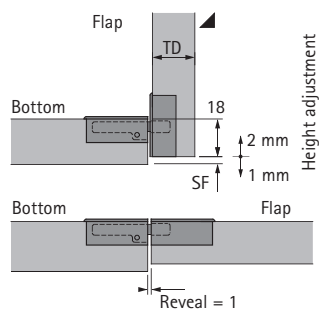


- Flap hinge for overlay flaps
- Quality classification under EN 15828, Level 2
- Separate installation of bottom panel and flap element
- Flap alignment through adjustment of height, sides and depth
- Same drilling sizes in bottom panel and flap elements
- Hole drilling concealed by rim on both parts
- Without height adjustment, bottom panel and flap are flush on the inside when open
- Can only be used in conjunction with flap stays
- Zinc die-cast, nickel plated

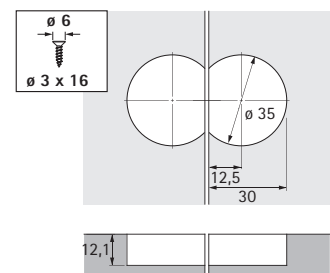
Flap hinge Markant 11

Order no.	PU
0 040 242	1/20 ea.

Mounting example

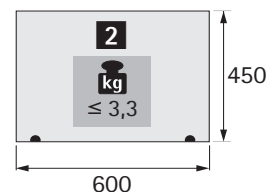


Drilling pattern



Flap thickness TD mm	Minimum reveal SF mm
16	1.0
17	2.0
18	3.0
19	3.5
20	4.5

Note



Special hinge

- ▶ Optimat Plus 4 FM
- ▶ Concealed hinge for front frame, opening angle 110°

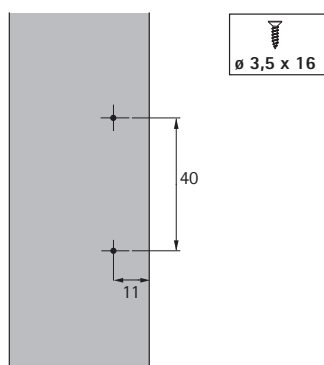


- ▶ Suitable for all frame widths
- ▶ Quality classification under EN 15570, Level 1
- ▶ For doors over 13 mm thick
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11 mm
- ▶ With self closing feature
- ▶ Door reveal at least 37 mm (hinge arm flush with the edge of the frame)
- ▶ Cup distance 2.5 mm
- ▶ Overlay adjustment + 1.5 mm / - 1.5 mm
- ▶ Height adjustment + 2 mm / - 2 mm
- ▶ Steel, nickel plated

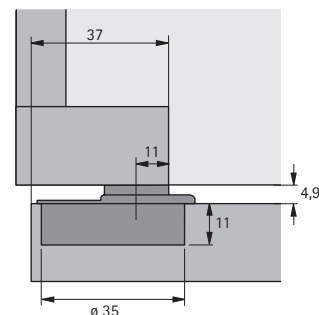
Optimat Plus 4 FM

Order no.	PU
9 072 548	1/50 ea.

Drilling hole distances for frame / door

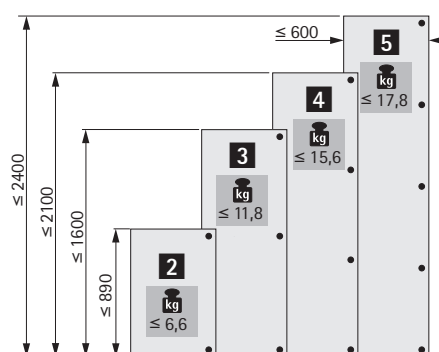


Mounting example



Number of hinges per door

Door format, weight and material quality are crucial factors determining the number of hinges required. The distance between the top and bottom hinge must be at least equal to the width of the door.



Minimum reveal per door

Door thickness mm	Cup distance C mm
16	2.5
19	4.2
	6.7



Hinges for use with integrated refrigerators



Embracing trends in designer kitchens

Large surfaced design with floor to ceiling kitchen cabinetry and minimalist reveals: for many, this is the dream kitchen look. This calls for unique fitting solutions designed specifically for installing with built-in refrigerators with fixed door connection: from the entry-level ET 582 to the guiding hinge with load bearing capacity Evisys.

EviSys is the latest addition to the range, for wider and taller cabinet doors. In combination with Hettich fixed door hinges, it's now possible to feature doors weighing up to 80 kg – a whopping 10 kg more than before. Positioned in the top door section, Evisys provides the necessary opening and closing stability and keeps reveals precisely aligned at all times.



For refrigerator surrounds:

Hinge with slim arm and door-on-door slider fitting for connecting furniture and refrigerator door.



Or upgrade for load bearing capacity for greater design flexibility:

EviSys makes a breeze of raising extra tall cabinet doors weighing up to 80kg.



Hinges for use with integrated refrigerators

► Range summary



ET 582

118



EviSys

119



**Door-on-door slider fitting for
refrigerator surrounds**

120

Hinges for use with integrated refrigerators

► ET 582

► For refrigerator surrounds, opening angle 95°

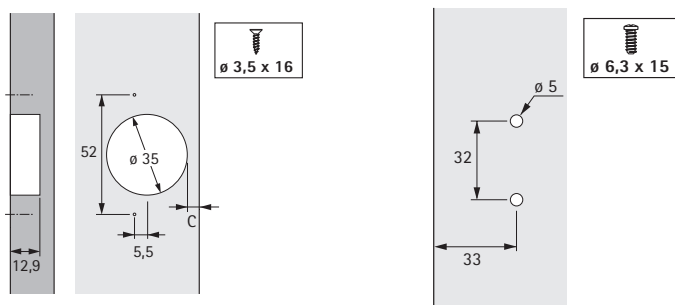


- Special hinge with short hinge protrusion for refrigerator surrounds
- Cup diameter 35 mm
- Cup depth 12.8 mm
- With stay closed function
- Including mounting plate and distance plate (distance = 3 mm) for overlays of 13 - 18 mm
- Integrated overlay adjustment + 1 mm / - 1 mm
- Integrated depth adjustment + 3 mm / - 3 mm
- Hinge arm material: nickel plated steel
- Cup hinge material: zinc die-cast nickel plated
- Distance plate material: white plastic

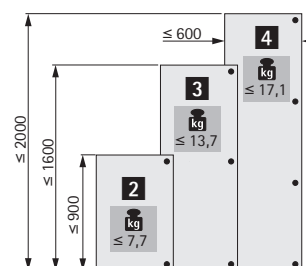
Special hinge ET 582

Order no.	PU
0 072 134	10 ea.

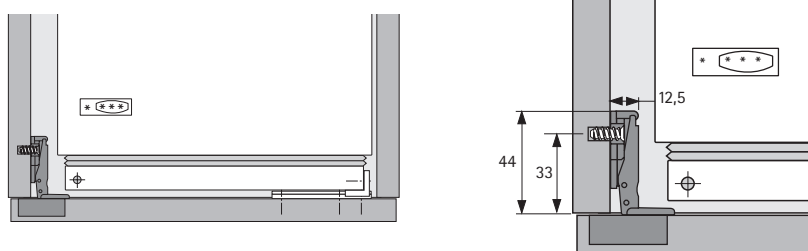
Drilling hole distances



Note



Mounting example



Note

A door-on-door slider fitting can be used for connecting the furniture door to the refrigerator door.

Mounting plate with plastic distance plate = 3 mm distance		Mounting plate without plastic distance plate = 0 mm distance	
Dimension C mm	Overlay mm	Dimension C mm	Overlay mm
3.0	13.0	3.0	16.0
3.5	13.5	3.5	16.5
4.0	14.0	4.0	17.0
4.5	14.5	4.5	17.5
5.0	15.0	5.0	18.0



Hinges for use with integrated refrigerators

- ▶ Evisys guiding hinge, load bearing
- ▶ For refrigerator surrounds, opening angle 115°



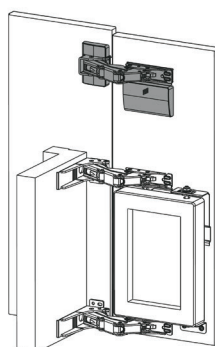
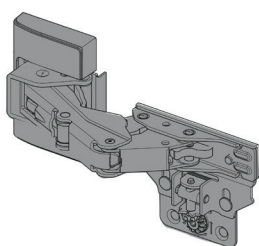
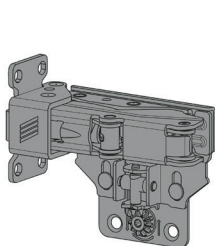
- ▶ Can only be used in combination with Hettich refrigerator hinges
- ▶ For extra high furniture fronts
- ▶ For refrigerator surrounds with precision reveal alignment
- ▶ With integrated soft closing
- ▶ For door widths up to 750 mm
- ▶ For doors weighing up to 80 kg
- ▶ 10 kg more load capacity
- ▶ For screwing on
- ▶ For cabinet bodies with 16, 18, 19 mm side panels
- ▶ Installed depth 41.5 mm
- ▶ Material galvanised steel
- ▶ For use on left and right of door

Set includes

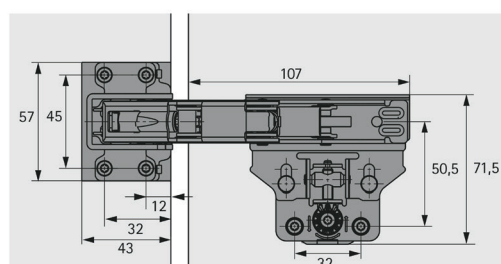
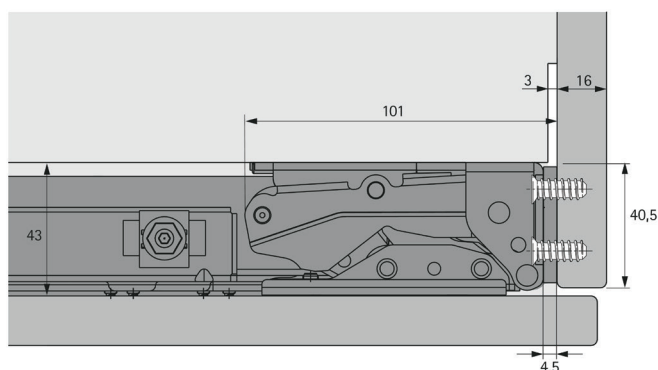
- ▶ Hinge
- ▶ Adjustment unit
- ▶ Cover cap with distance plates for 16, 18, 19mm cabinet bodies
- ▶ Distance plate
- ▶ Cover cap, adjustment unit
- ▶ Fixing screws
- ▶ Drilling template
- ▶ Assembly instructions

	Description	Order no.	PU
Anthracite set	Nickel hinge with anthracite cover caps	9 343 483	1 set.
Graphite Black set	Graphite black hinge with black cover caps	9 384 272	1 set.
White cover caps	Cover caps only	9 353 455	24 ea.

Installation



hettich.com/short/3i40evr



Special hinge

- ▶ Door-on-door slider fitting for refrigerator surrounds
- ▶ For hinged doors



- ▶ Suitable for built-in refrigerators
- ▶ Allows cabinet and refrigerator door to be opened simultaneously
- ▶ All-inclusive set complete with guide profile, adapter for refrigerator door and cover caps
- ▶ Plastic, white

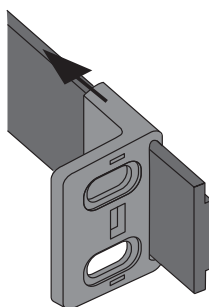
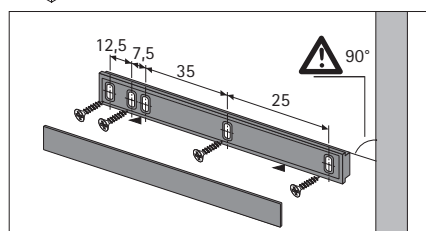
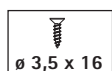
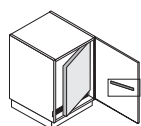
Set comprises:

- ▶ 1 runner
- ▶ 1 cover cap for runner
- ▶ 1 adapter for refrigerator door
- ▶ 1 cover cap for adapter for refrigerator door

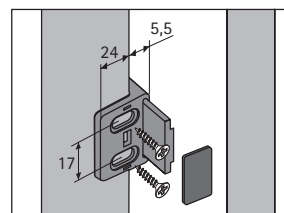
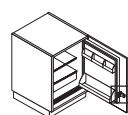
Door-on-door slider fitting for refrigerator surrounds

Order no.	PU
9 079 390	1 set

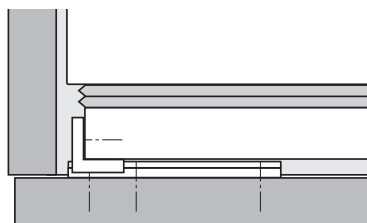
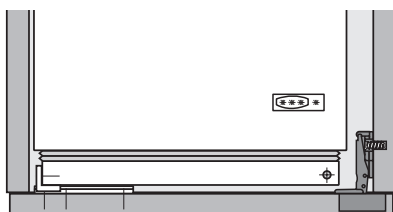
Installation



Installation



Mounting example



Optional Silent System

► For concealed hinges



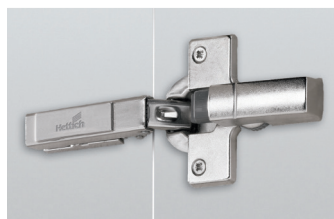
A measurable benefit for every furniture user

Intermat with Silent System controls the movement of furniture doors, leaving them to close quietly and gently. Peace and quiet are immediately restored, enhancing living comfort in any home situation.



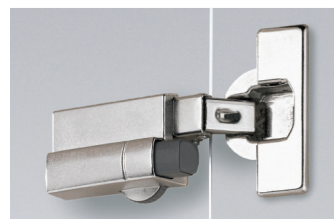
Greater customer benefits

Silent System action can be optimised to suit the size and weight of the doors.



Elegance for the hinge cup

This particularly attractive Silent System can be used for standard door mounting styles.



Convenient, for clipping on

Silent System simply clips onto the hinge arm, thus enabling tool-less assembly.



Screwed on in seconds flat

This option is mainly used in conjunction with hinges for unusual face angles.



Optional Silent System

- ▶ Intermat fast assembly concealed hinge
- ▶ For Intermat

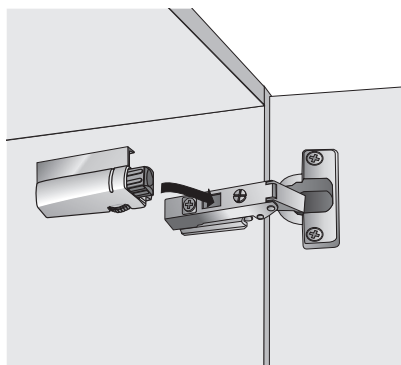
Clip on Silent System



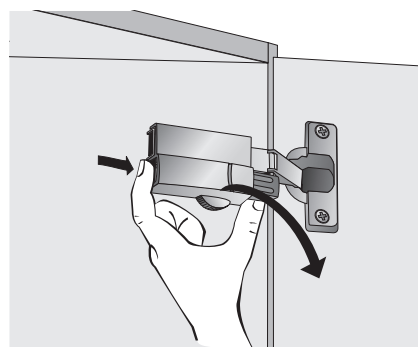
- ▶ For clipping onto the hinge arm
- ▶ Cushioning effect infinitely adjustable at setting wheel
- ▶ Tool-less assembly / removal
- ▶ Use two Silent System elements for doors weighing over 13.5 kg
- ▶ Easy upgradeable
- ▶ Zinc die-cast, nickel plated

For hinge	Door mounting option	Verwendung mit	Order no.	PU
Intermat 9943 / 9936	Full overlay	All mounting plate distances	0 060 576	50 ea.

Installation



Removal



Push to open opening system for handleless furniture fronts

► Push to open for hinged doors



Effortlessly handleless

Handleless furniture design conveys a clean, light and airy look. Push to open Silent for hinged doors provides convenience that pampers its users: easy, reliable opening. Gentle and soft closing. Push to open Silent can easily

be added to any cabinet body and is suitable for all common cabinet constructions. Entirely without any power connection. 100 % convenience, zero cables.



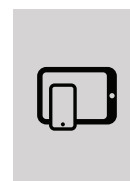
Bring purist design to furniture: handleless design in all common door sizes and cabinet body constructions.



Open without handles, close softly and silently: by combining Push to open with soft closing hinges.



Install quickly and easily: The housing can simply be attached to the existing standard hole line.



hettich.com/short/6a155f

Find out more: You can get inspiration and further product details on our website.



Push to open opening system for handleless furniture fronts

► Summary



Push to open for hinges

- Range summary / technical comparison 126 – 127
- Application areas / recommended applications 128



Push to open Pin

- for screwing on 129
- For drilling in 130



Push to open Pin Strong

- for screwing on 131
- For drilling in 132



Push to open Magnet

- for screwing on 133
- For drilling in 134



Accessories

- Counterplates for Push to open Magnet 135

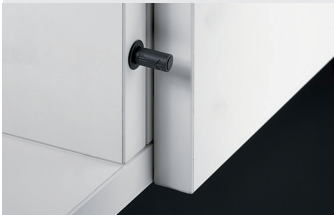


Push to open Silent

- for screwing on 136
- installation 137 – 139

Push to open opening system for handleless furniture fronts

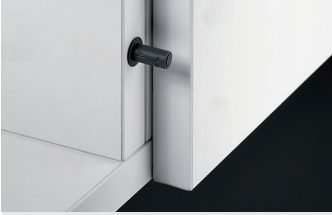
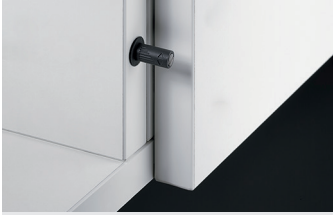
- ▶ Push to open for hinges
- ▶ Range summary / technical comparison

	Push to open Pin 	Push to open Pin 	Push to open Pin Strong 
Page	129	130	131
Application	▶ Concealed hinges	▶ Concealed hinges	▶ Concealed hinges ▶ For use in combination with particularly tall and / or heavy doors
Door mounting option	▶ Full overlay ▶ Half overlay ▶ Inset	▶ Full overlay	▶ Full overlay ▶ Half overlay ▶ Inset
Installation	▶ For screwing on	▶ For drilling in	▶ For screwing on
Material / colour	Plastic ▶ Anthracite ▶ White	Plastic ▶ Anthracite ▶ White	Plastic ▶ Anthracite ▶ White



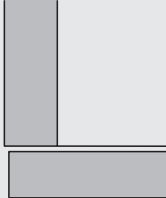
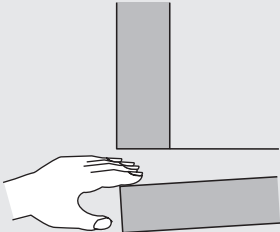
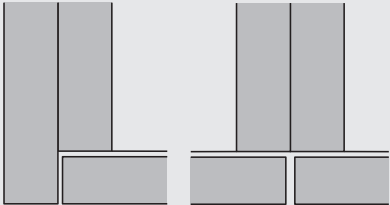
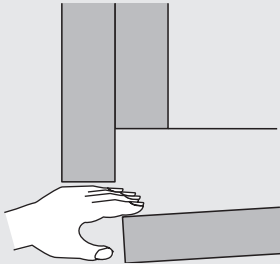
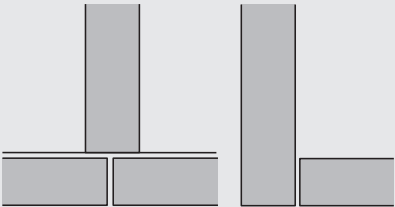
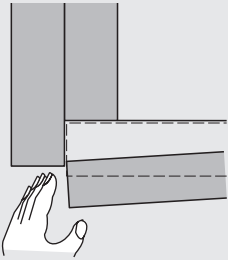
Push to open opening system for handleless furniture fronts

- ▶ Push to open for hinges
- ▶ Range summary / technical comparison

Push to open Pin Strong	Push to open Magnet	Push to open Magnet	Push to open Silent
			
132	133	134	136
▶ Concealed hinges ▶ For use in combination with particularly tall and / or heavy doors	▶ Hinges without self closing feature	▶ Hinges without self closing feature	▶ Concealed hinges
▶ Full overlay	▶ Full overlay ▶ Half overlay ▶ Inset	▶ Full overlay	▶ Full overlay ▶ Half overlay ▶ Inset
▶ For drilling in	▶ For screwing on	▶ For drilling in	▶ For screwing on
Plastic ▶ Anthracite ▶ White	Plastic ▶ Anthracite ▶ White	Plastic ▶ Anthracite ▶ White	Plastic ▶ Anthracite ▶ White

Push to open opening system for handleless furniture fronts

- ▶ Push to open for hinges
- ▶ Application areas / recommended applications

1 Design	2 Door use	3 Hinge function
The door is freely accessible from the side. Full overlay (non adjacent components) 	Reaching behind the door 	With self closing feature Without self closing feature
The door is not freely accessible from the side because it is adjacent to another component. Full overlay (e.g. adjacent panel, another cabinet) 	Reaching in behind the door 	With self closing feature Without self closing feature
Half overlay Inset 	Reaching in at side of door 	With self closing feature Without self closing feature



Push to open opening system for handleless furniture fronts

- Push to open Pin for screwing on
- For hinges with self closing feature



- For use with concealed hinges
- Suitable for full overlay, half overlay and inset doors
- Large adjustment range of 6 mm
- Activating gap 1.4 mm
- For installation, see installation notes, pages 135 – 137
- Plastic

Push to open Pin

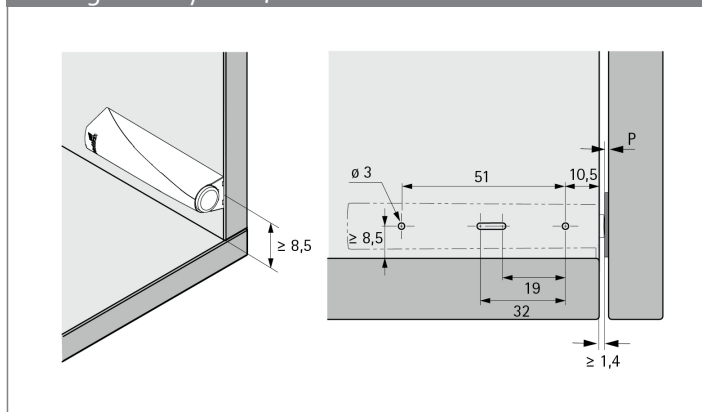


Set comprises:

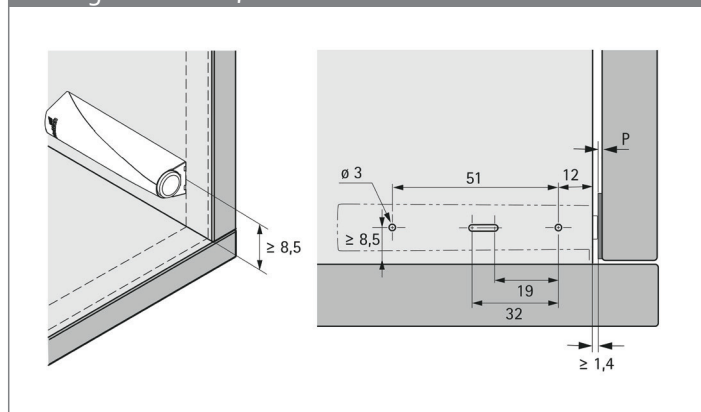
- 1 Push to open Pin
- 1 adapter top part
- 1 adapter base part

	Order no. / colour		PU
	White	Anthracite	
Push to open Pin for screwing on	9 375 901	9 375 902	25 set

Fitting overlay door, for screw on installation



Fitting inset door, for screw on installation



Push to open opening system for handleless furniture fronts

- ▶ Push to open Pin for drilling in
- ▶ For hinges with self closing feature



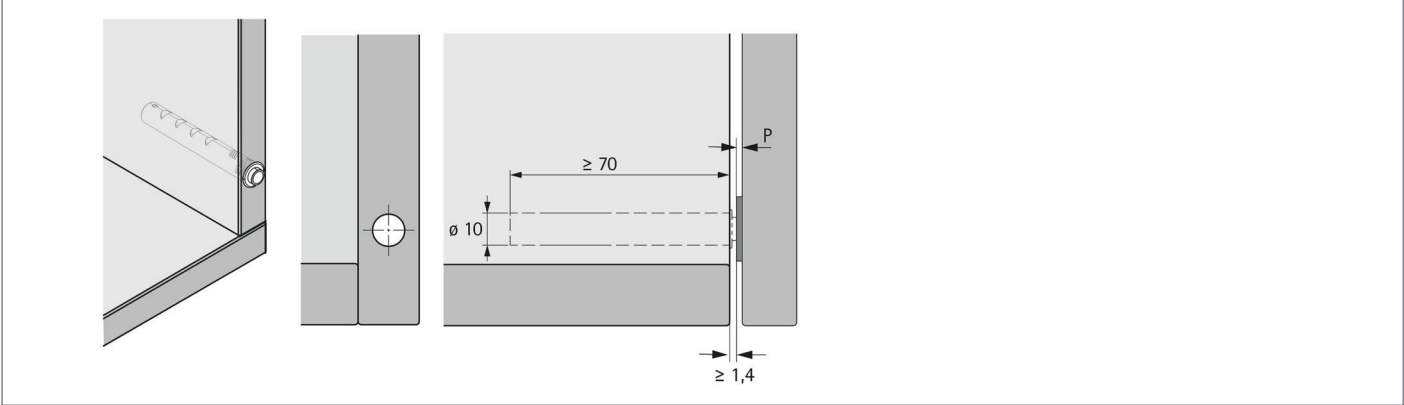
- ▶ For use with concealed hinges
- ▶ For full overlay doors
- ▶ Large adjustment range of 6 mm
- ▶ Activating gap 1.4 mm
- ▶ For installation, see installation notes, pages 135 - 137
- ▶ Plastic

Push to open Pin



	Order no. / colour		PU
	White	Anthracite	
Push to open Pin for drilling in	9 375 920	9 375 922	25 ea.

Fitting overlay door, for drill hole installation



Push to open opening system for handleless furniture fronts

- Push to open Pin Strong for screwing on
- For hinges with self closing feature



- For use with concealed hinges
- For use in combination with particularly tall and / or heavy doors for example
- Suitable for full overlay, half overlay and inset doors
- Large adjustment range of 6 mm
- Activating gap 1.4 mm
- For installation, see installation notes, pages 135 - 137
- Plastic

Push to open Pin Strong

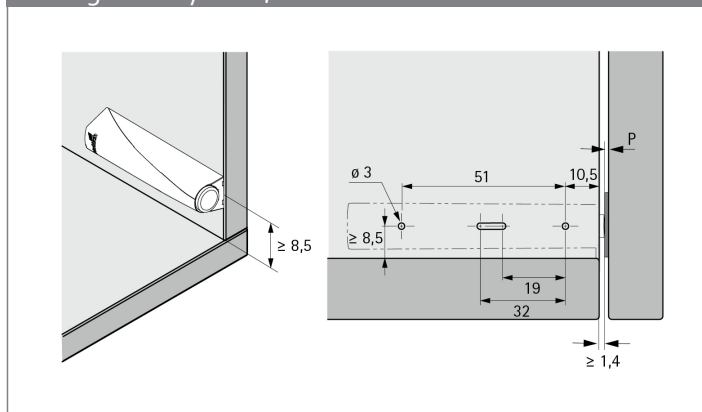


Set comprises:

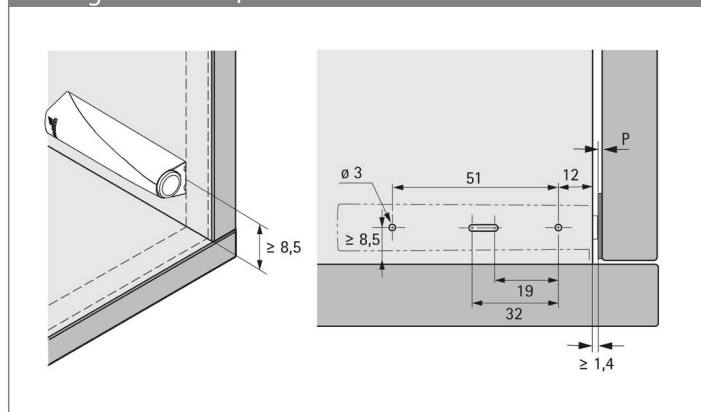
- 1 Push to open Pin Strong
- 1 adapter top part
- 1 adapter base part

	Order no. / colour		PU
	White	Anthracite	
Push to open Pin Strong for screwing on	9 375 932	9 375 933	25 set

Fitting overlay door, for screw on installation

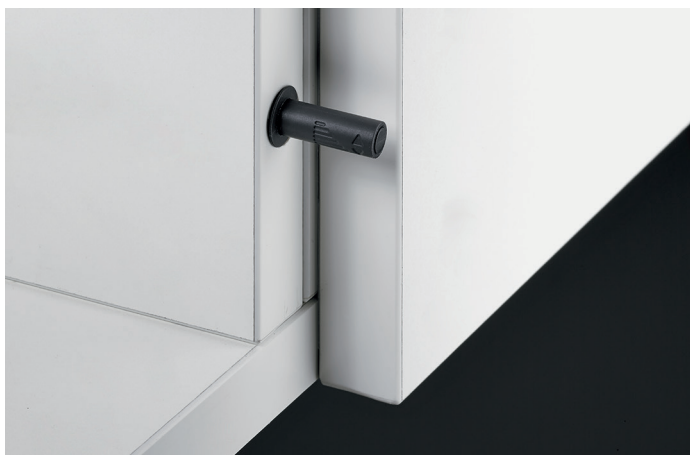


Fitting inset door, for screw on installation



Push to open opening system for handleless furniture fronts

- ▶ Push to open Pin Strong for drilling in
- ▶ For hinges with self closing feature



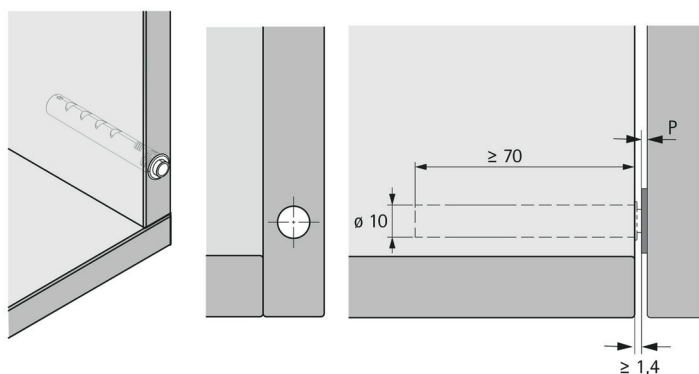
- ▶ For use with concealed hinges
- ▶ For use in combination with particularly tall and / or heavy doors for example
- ▶ Cartridge can be identified by the red end cap
- ▶ For full overlay doors
- ▶ Large adjustment range of 6 mm
- ▶ Activating gap 1.4 mm
- ▶ For installation, see installation notes, pages 135 - 137
- ▶ Plastic

Push to open Pin Strong



	Order no. / colour		PU
	White	Anthracite	
Push to open Pin Strong for drilling in	9 375 963	9 375 964	25 ea.

Fitting overlay door, for drill hole installation



Push to open opening system for handleless furniture fronts

- ▶ Push to open Magnet for screwing on
- ▶ For hinges without self closing feature



- ▶ For use with hinges without self closing feature
- ▶ Suitable for full overlay, half overlay and inset doors
- ▶ Large adjustment range of 6 mm
- ▶ Activating gap 1.4 mm
- ▶ For installation, see installation notes, pages 135 – 137
- ▶ Plastic

Push to open Magnet

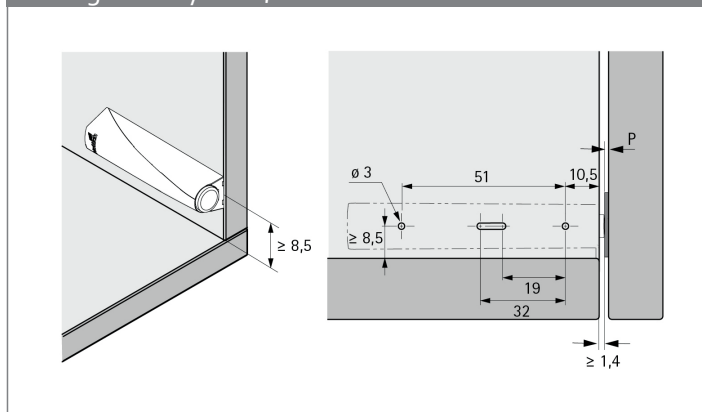


Set comprises:

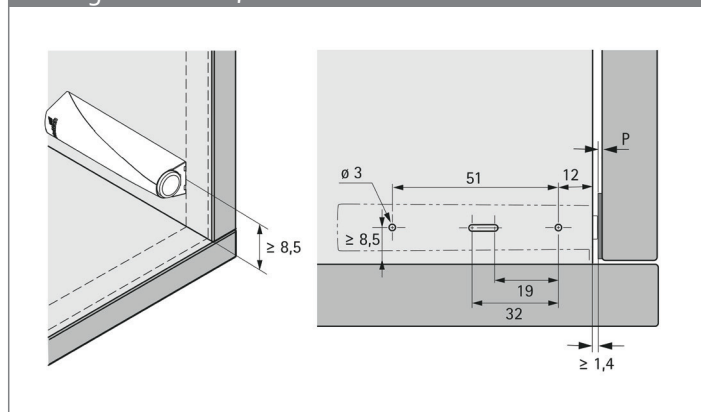
- ▶ 1 Push to open Magnet
- ▶ 1 adapter top part
- ▶ 1 adapter base part
- ▶ 1 counterplate for gluing / screwing on

	Order no. / colour		PU
	White	Anthracite	
Push to open Magnet for screwing in	9 375 969	9 375 980	25 set

Fitting overlay door, for screw on installation



Fitting inset door, for screw on installation



Push to open opening system for handleless furniture fronts

- ▶ Push to open Magnet for drilling in
- ▶ For hinges without self closing feature



- ▶ For use with hinges without self closing feature
- ▶ For full overlay doors
- ▶ Large adjustment range of 6 mm
- ▶ Activating gap 1.4 mm
- ▶ For installation, see installation notes, pages 135 - 137
- ▶ Plastic

Push to open Magnet

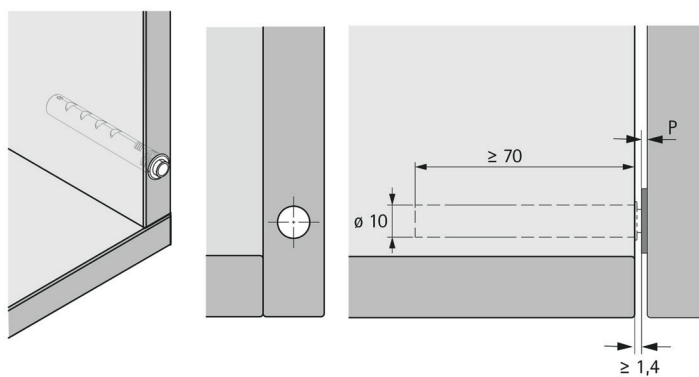


Set comprises:

- ▶ 1 Push to open Magnet
- ▶ 1 counterplate for gluing / screwing on

	Order no. / colour		PU
	White	Anthracite	
Push to open Magnet for drilling in	9 375 985	9 375 986	25 set

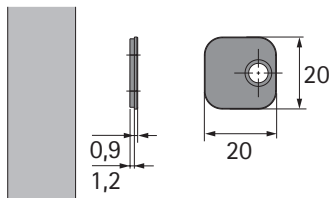
Fitting overlay door, for drill hole installation



Push to open opening system for handleless furniture fronts

- Accessories
- For Push to open Magnet

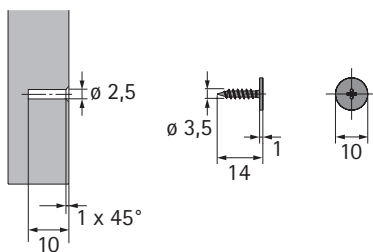
Counterplate for gluing and screwing on



- Self adhesive type
- Mounting hole for optional countersunk screw $\varnothing$ 3 mm
- Counterplate is included with all "Push to open Magnet" and "Push to open Lock" articles
- Steel

Order no.	PU
9 090 869	100 ea.

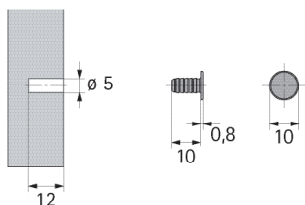
Counterplate for screwing on



- For drilling $\varnothing$ 2.5 x 10 mm
- For use with PZ 1 screwdriver
- Steel, nickel plated

Order no.	PU
9 386 068	100 ea.

Counterplate for pressing in



- For $\varnothing$ 5 x 12 mm drilling
- Steel, nickel plated

Order no.	PU
9 386 067	100 ea.

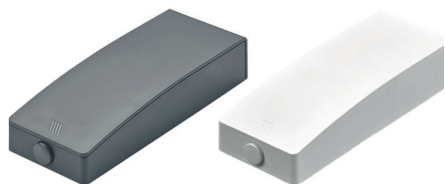
Push to open opening system for handleless furniture fronts

► Push to open Silent for screwing on



- For use with concealed Silent System hinges
- For full and half overlay as well as inset doors
- For angled applications
- Large adjustment range of + 4 / - 2 mm
- Opening movement 1.4 mm
- Opening distance 45 mm
- L x W x H (mm): 155 x 60 x 32 (22)
- Includes 4x AA batteries
- Plastic

Push to open Silent for hinged door

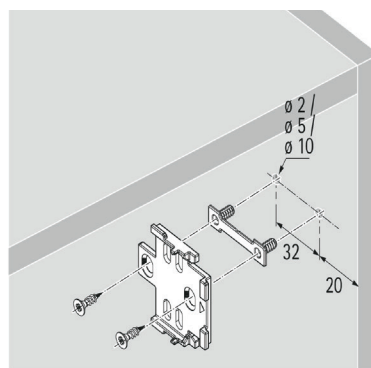
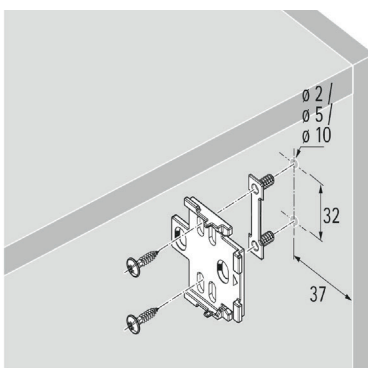
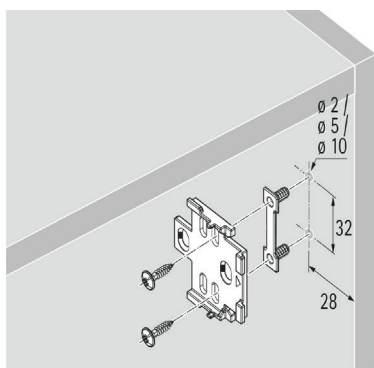


Set comprises:

- 1 Push to open Magnet
- 1 counterplate for gluing / screwing on

	Order no. / colour		PU
	Anthracite	White	
Push to open Silent for hinged doors	9 239 087	9 239 088	1 set

Drilling patterns



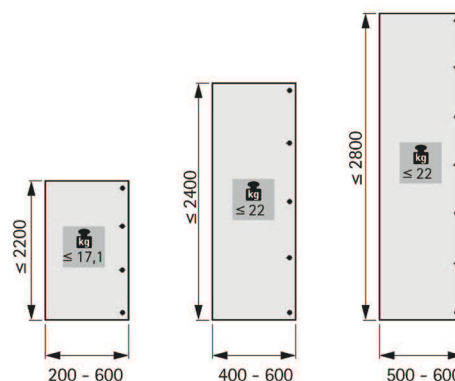
Push to open Silent - number per hinged door

The dimensions shown refer to the use of one Push to open Silent in combination with Sensys hinges.

Here, crucial factors are:

- the number of hinges used
- the door dimensions as well as
- the door weight

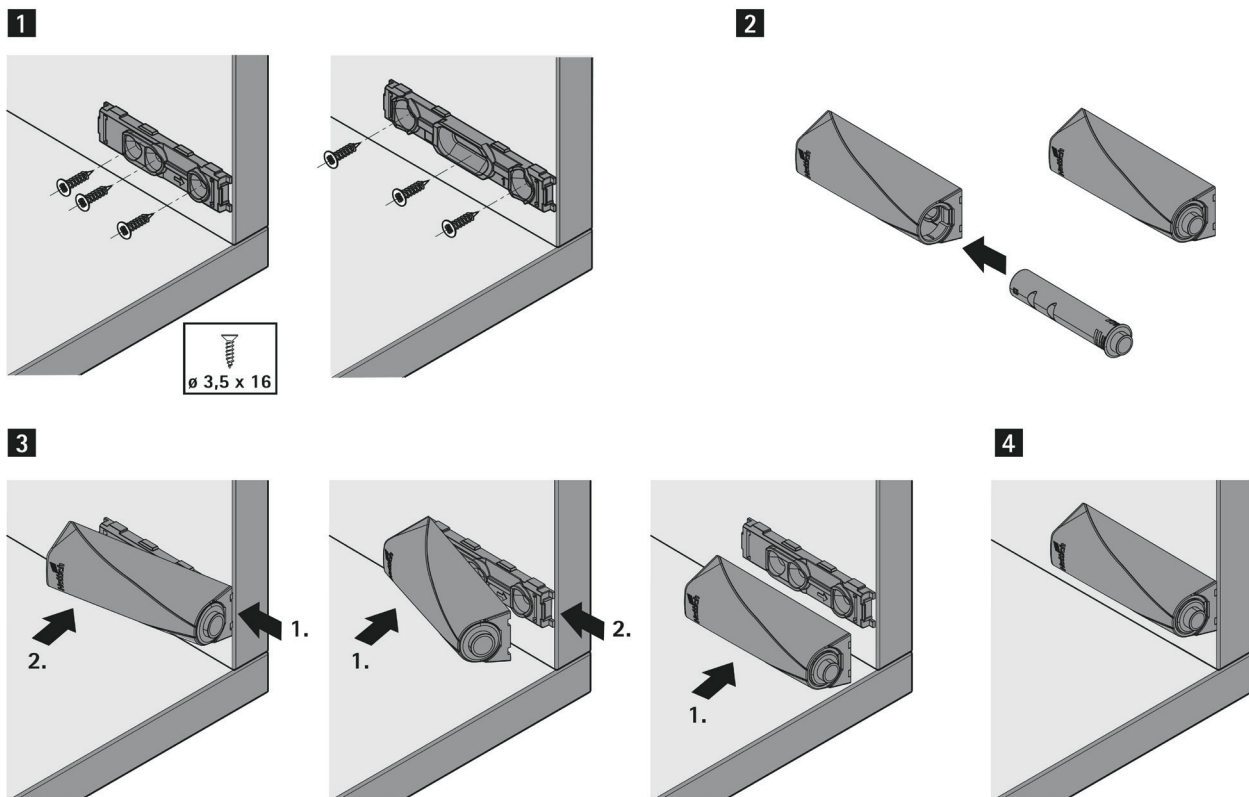
See diagram



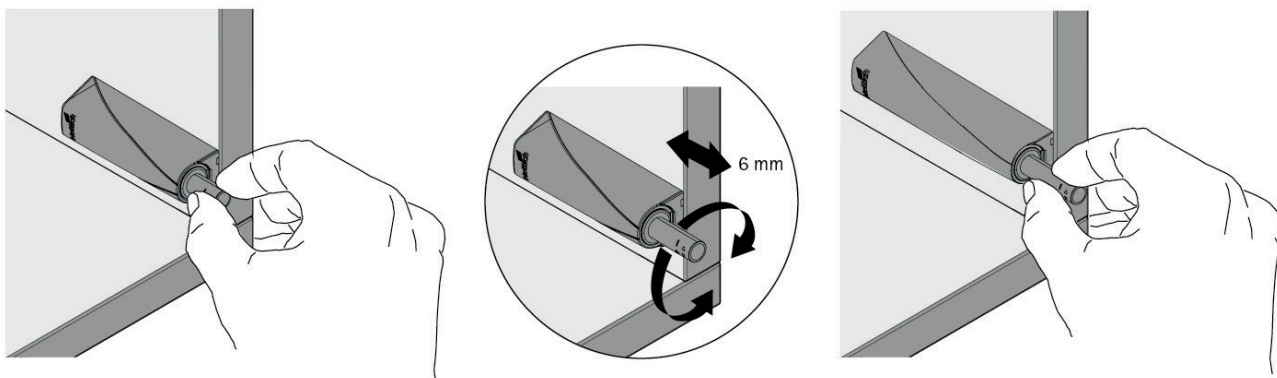
Push to open opening system for handleless furniture fronts

- Technical information
- Installation

Installing Push to open for screwing on



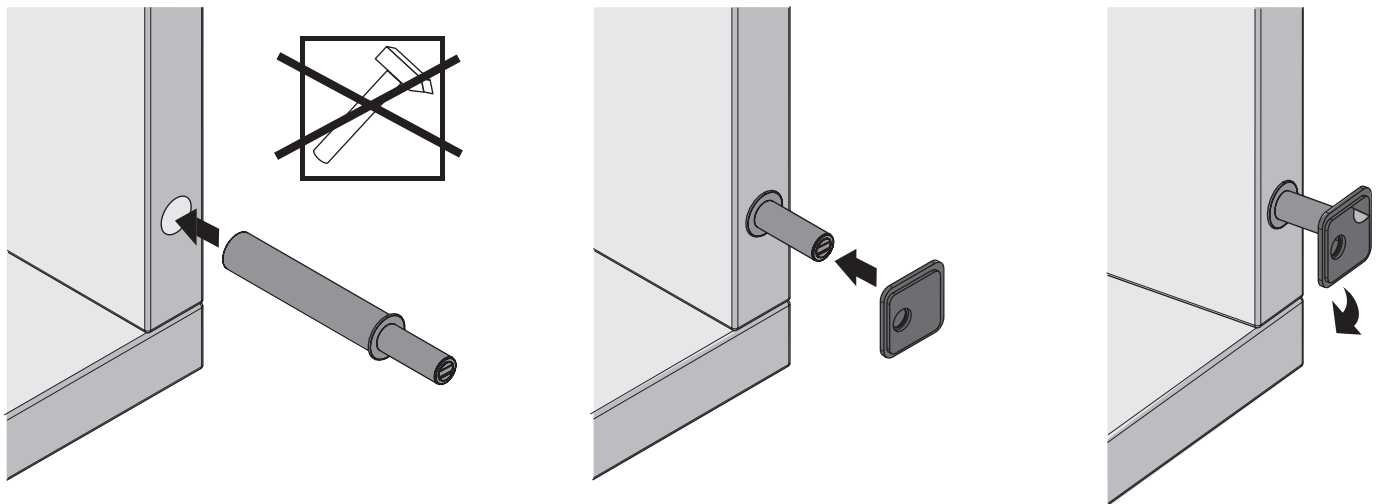
Adjusting Push to open for screwing on



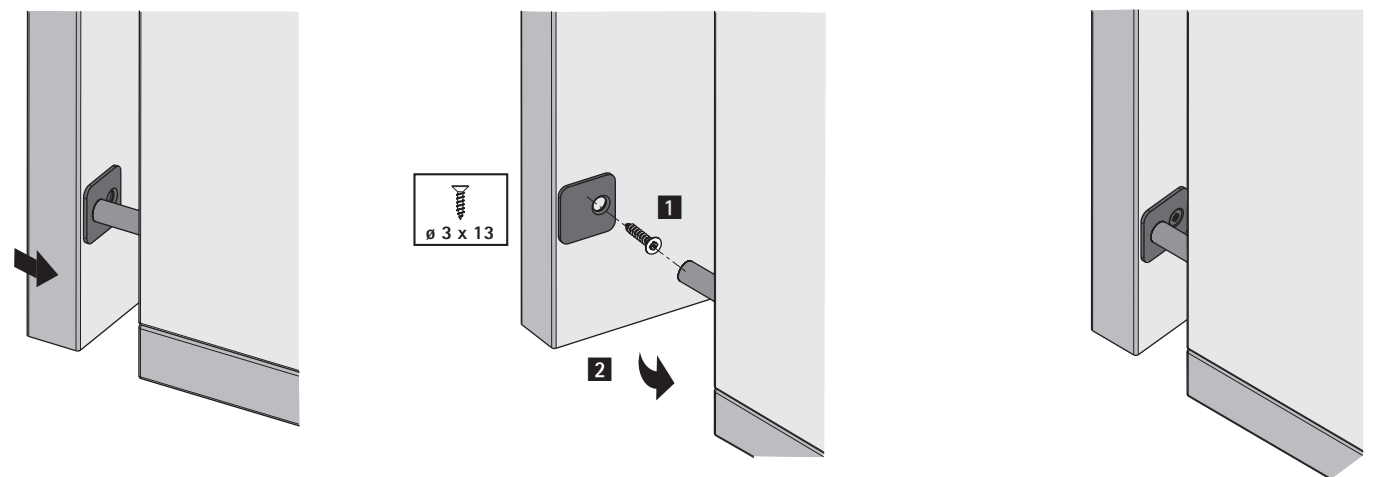
Push to open opening system for handleless furniture fronts

- ▶ Technical information
- ▶ Installation

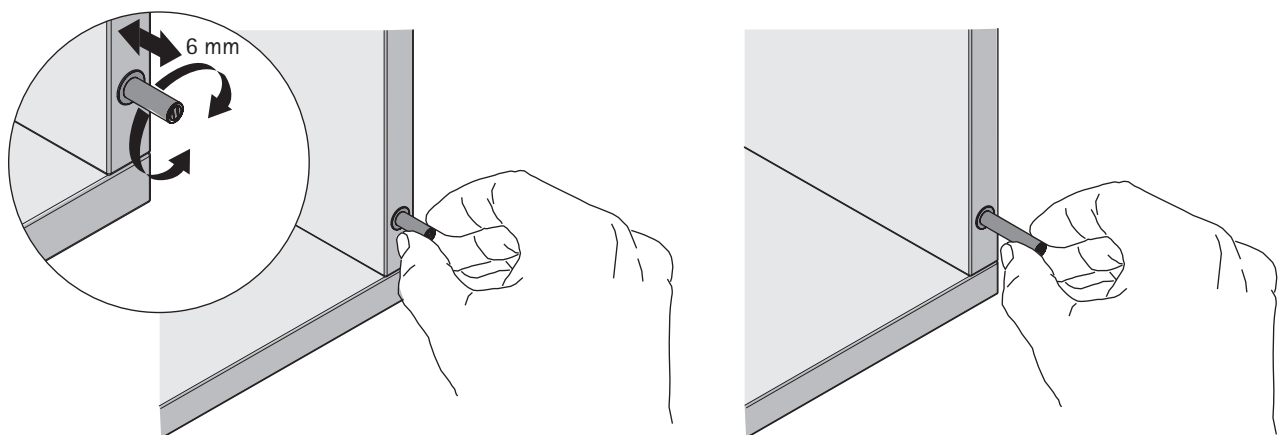
Installing Push to open for drilling in



Installing counterplate for gluing and screwing on



Adjusting Push to open for drilling in

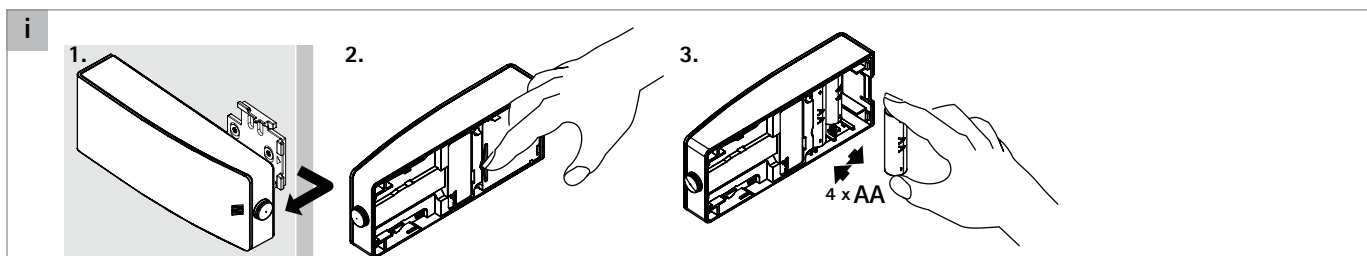
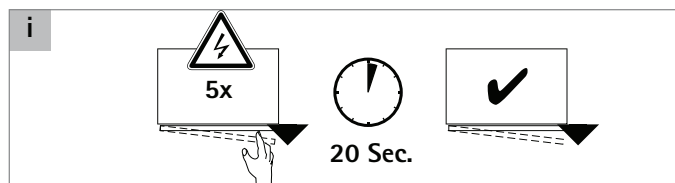
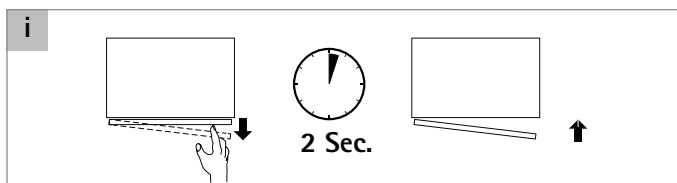
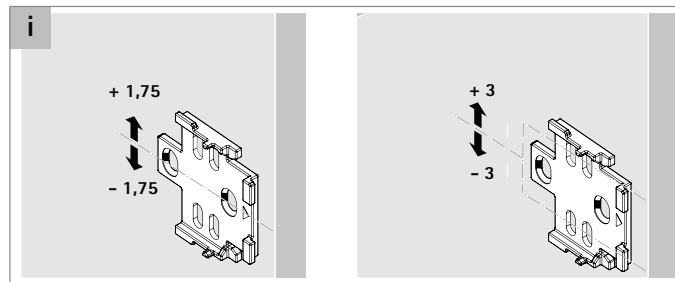
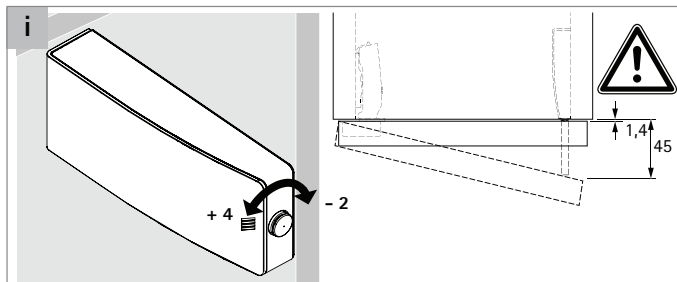
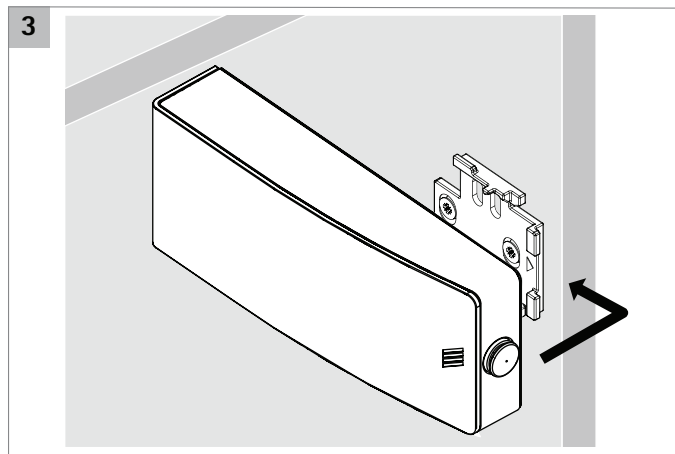
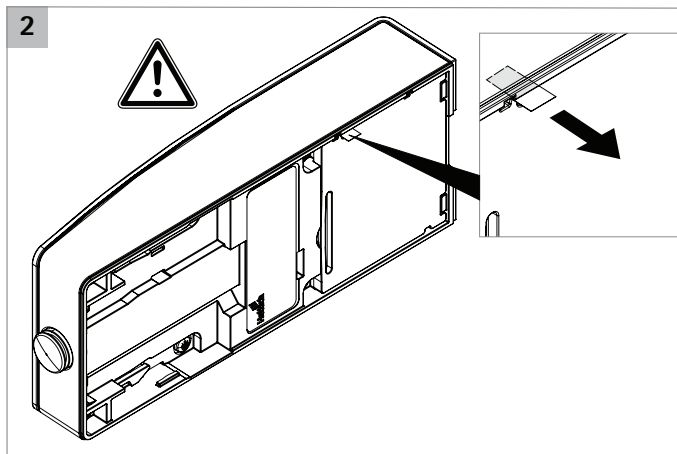
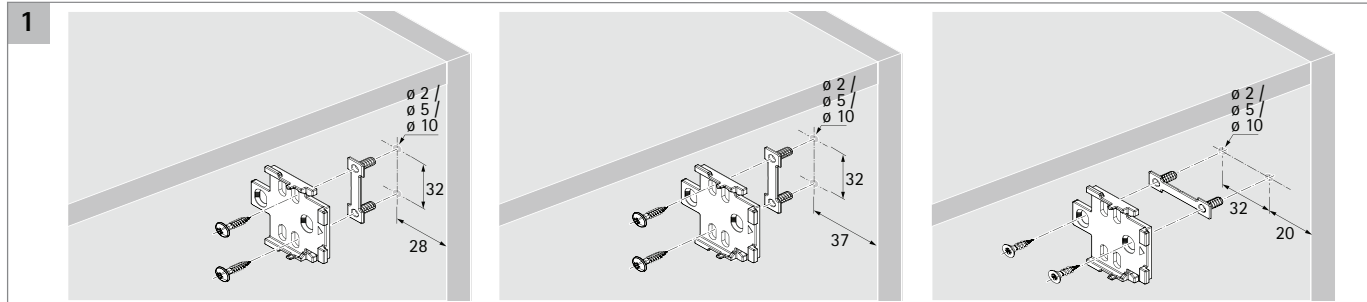


Push to open opening system for handleless furniture fronts

► Technical information

► Installation

Installing Push to open Silent for screwing on



Batteries are hazardous waste.
For proper battery disposal,
there are collecting containers
available in the trade as well
as the municipal collecting
points.

Order no.	Page
0 024 908	112
0 025 048	97
0 025 204	96
0 025 314	112
0 040 242	113
0 040 341	78
0 040 495	78
0 041 296	96
0 045 036	80
0 045 037	80
0 045 169	96
0 046 787	110
0 047 451	97
0 047 452	97
0 048 096	73
0 048 097	73
0 052 095	110
0 060 576	123
0 070 712	78
0 070 713	78
0 071 648	111
0 072 120	97
0 072 134	118
0 072 960	78
0 072 967	78
0 072 968	78
0 073 921	62
0 073 932	73
0 073 933	73
0 077 699	73
0 077 700	73
0 077 708	76
0 077 709	76
1 004 895	97
1 029 518	58
1 029 520	58
1 030 620	58
1 030 622	58
1 030 922	58
1 030 924	58
1 058 365	62
9 042 420	59
9 043 360	58
9 043 640	58
9 043 641	58
9 043 672	76
9 044 823	80
9 071 205	8
9 071 206	8
9 071 207	8, 38
9 071 208	8
9 071 209	8
9 071 210	8
9 071 259	9
9 071 260	9
9 071 261	9
9 071 262	9
9 071 316	10
9 071 575	88
9 071 576	88

Order no.	Page
9 071 577	88
9 071 578	88
9 071 579	88
9 071 595	88
9 071 596	88
9 071 597	88
9 071 598	88
9 071 625	88
9 071 626	88
9 071 627	88
9 071 628	88
9 071 629	88
9 071 650	89
9 071 651	89
9 071 652	89
9 071 655	89
9 071 656	89
9 071 657	89
9 071 658	89
9 071 953	89
9 072 524	34
9 072 525	34
9 072 526	34
9 072 533	91
9 072 534	91
9 072 535	91
9 072 536	91
9 072 540	94
9 072 541	94
9 072 548	114
9 073 567	8
9 073 568	8
9 073 576	9
9 073 595	93
9 073 614	8
9 073 615	8
9 073 616	8
9 073 642	9
9 073 643	9
9 073 644	9
9 073 645	9
9 073 646	9
9 073 662	10
9 073 663	10
9 073 664	10
9 073 666	10
9 073 667	10
9 073 668	10
9 073 669	10
9 073 670	10
9 073 688	8
9 073 704	10
9 079 298	97
9 079 390	120
9 081 567	95
9 081 923	38
9 088 016	24
9 088 017	24
9 088 019	26
9 088 020	26

Order no.	Page
9 088 021	30
9 088 034	24
9 088 035	24
9 088 037	26
9 088 039	30
9 088 073	26
9 088 075	30
9 088 085	26
9 088 087	30
9 088 103	27
9 088 104	27
9 088 105	31
9 088 123	31
9 088 141	31
9 088 159	31
9 088 179	28
9 088 181	32
9 088 199	32
9 088 249	92
9 088 250	92
9 088 251	92
9 088 253	96
9 090 107	36
9 090 109	36
9 090 110	36
9 090 113	36
9 090 260	12
9 090 261	12
9 090 756	94
9 090 864	94
9 090 869	135
9 091 406	12
9 091 410	12
9 091 411	12
9 091 416	12
9 091 420	12, 38
9 091 421	12
9 091 426	12
9 091 490	13
9 091 500	13
9 091 510	13
9 091 580	14
9 091 590	14
9 091 600	14
9 091 738	8
9 091 739	8
9 091 740	8
9 091 741	10
9 091 742	10
9 091 743	10
9 091 744	34
9 091 754	12
9 091 757	12
9 091 771	8
9 091 772	8
9 091 773	8
9 091 774	10
9 091 775	10
9 091 776	10
9 091 779	26

Order no.	Page
9 091 780	30
9 091 785	12
9 091 789	20
9 091 790	20
9 091 793	17
9 091 811	89
9 091 812	89
9 091 813	89
9 091 814	89
9 091 821	92
9 091 822	92
9 094 090	18
9 094 270	17
9 094 271	17
9 094 276	17
9 094 280	17
9 094 290	17
9 099 540	20
9 099 541	20
9 099 543	20
9 099 546	20
9 099 550	20, 38
9 099 551	20
9 099 553	20
9 099 556	20
9 099 600	21
9 099 601	21
9 099 603	21
9 099 606	21
9 099 610	21
9 099 660	22
9 099 670	22
9 099 750	70
9 099 751	70
9 099 756	70
9 099 760	70
9 099 761	70
9 099 766	70
9 099 810	71
9 099 811	71
9 099 820	71
9 099 821	71
9 099 870	92
9 099 871	92
9 100 037	93
9 101 552	96
9 102 082	96
9 103 006	95
9 117 341	90
9 117 342	90
9 117 344	90
9 117 388	90
9 117 471	90
9 117 472	90
9 117 716	66
9 117 717	66
9 117 718	66
9 239 087	136
9 239 088	136
9 289 590	100





General technical conditions

The fitting information, screw fixing points and load capacity information contained in this catalogue assume proper attachment using screws specified by Hettich to a chipboard panel providing a screw pull out resistance of at least 1,000 N in accordance with EN 320.

Hettich accepts no responsibility for the load capacity of furniture and its components if materials or fastening methods are used other than those stated; the furniture manufacturer must verify load capacity.

The fitting situations shown in this catalogue are only intended to illustrate the possible options.

The furniture manufacturer is responsible for ensuring that furniture is designed in compliance with standards, in particular with regard to meeting the requirements on safety.

We will be pleased to provide any further information you may require.

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