

Fast assembly concealed hinge

- ▶ Sensys with integrated Silent System
- ▶ Key selling points



Sensys hinge:

Ultimate Silent System perfectly designed



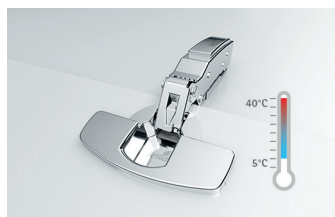
Stand apart from the competition!

Outstanding furniture design doesn't stop at the hinges. The easy way to meet customer demands: with well balanced, award winning Sensys design.



Less work!

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



Maximum customer satisfaction!

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.

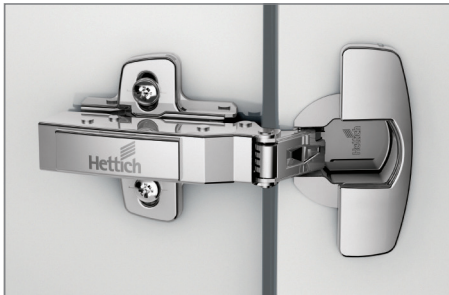


Reduce costs!

Some commonly used door formats normally hung on 3 or more hinges can often be mounted with one hinge less. As a result of best in class Silent System performance from Sensys.

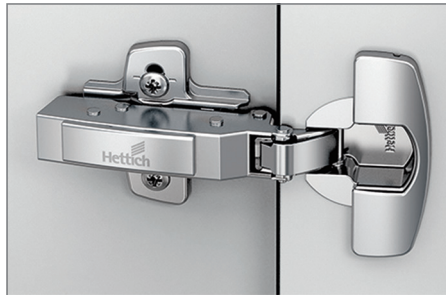
Fast-assembly concealed hinge

- ▶ Sensys
- ▶ Range summary



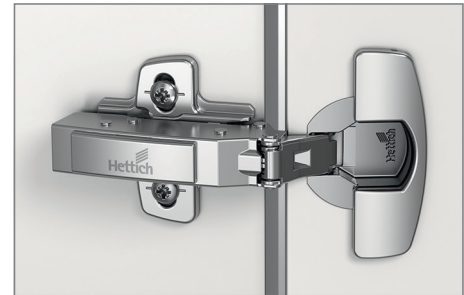
Sensys 110° standard hinge

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



Sensys 95° thick door hinge

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



Sensys 110° thin door hinge

- ▶ Sensys 8646i / 8646 / 8676
- ▶ For thin doors



Sensys 165° zero protrusion hinge

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



Sensys W30 angle hinge

- ▶ Sensys 8639i W30 / 8639 W30 / 8669 W30
- ▶ For 30° face angle applications



Sensys W45 angle hinge

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



Sensys W90 angle hinge

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



Sensys aluminium framed hinge

- ▶ Sensys 8638i / 8638 / 8668
- ▶ For aluminium framed doors



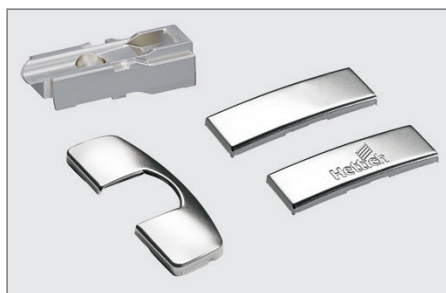
Intermat folding door hinge

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



Mounting plates

- ▶ System 8000 / 8099
- ▶ For Sensys and Intermat Scharniere



Accessories

- ▶ For Sensys



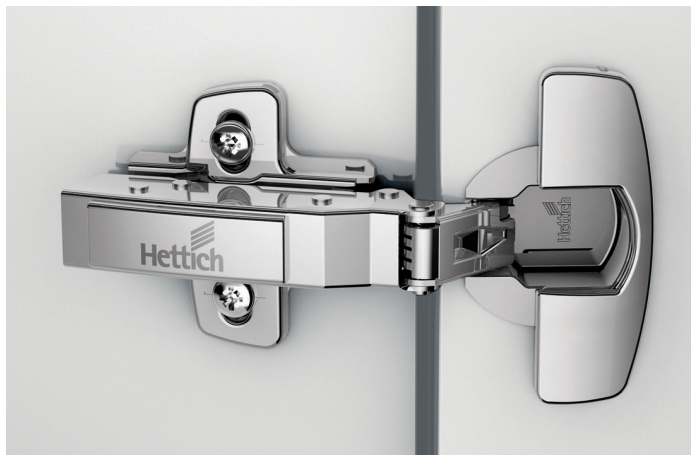
Technical information

Fast assembly concealed hinge with integrated Silent System

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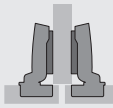

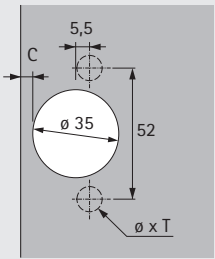
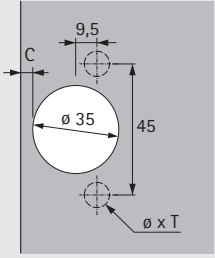
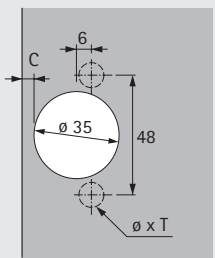
INTERFER
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- ▶ Sensys 8645i
- ▶ Opening angle 110°



- ▶ 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8645i, opening angle 110°

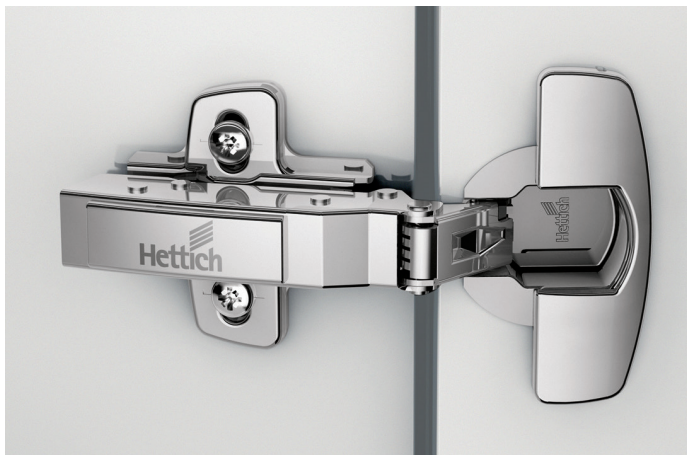
Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 071 205	9 071 206	9 071 207	200 ea.
for pressing in TH 53		$\varnothing 10 \times 11$	9 071 208	9 071 209	9 071 210	200 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	9 071 220	9 071 221	9 071 222	200 ea.
with premounted expanding sockets TH 58		$\varnothing 10 \times 11$	9 073 567	9 073 568	9 073 569	200 ea.
for screwing on TB 52		-	9 071 223	9 071 224	9 071 225	200 ea.
for pressing in TB 53		$\varnothing 8 \times 11$	9 071 226	9 071 227	9 071 228	200 ea.
Fix fast installation TB 55		$\varnothing 8 \times 6$	9 071 238	9 071 239	9 071 240	200 ea.
with premounted expanding sockets TB 58		$\varnothing 8 \times 11$	9 073 570	9 073 571	9 073 572	200 ea.
for screwing on TS 52		-	9 071 241	9 071 242	9 071 243	200 ea.
for pressing in TS 53		$\varnothing 10 \times 11$	9 071 244	9 071 245	9 071 246	200 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	9 071 220	9 071 221	9 071 222	200 ea.
with premounted expanding sockets TS 58		$\varnothing 10 \times 11$	9 073 573	9 073 574	9 073 575	200 ea.

Fast assembly concealed hinge without integrated Silent System

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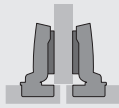

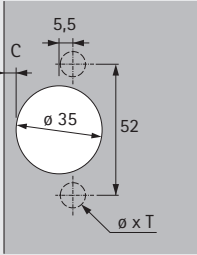
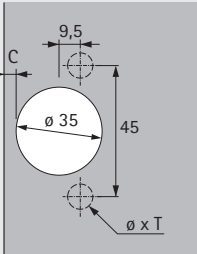
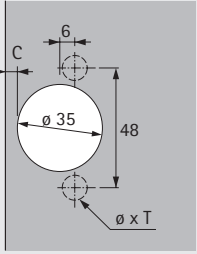
INTERFER
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- ▶ Sensys 8645
- ▶ Opening angle 110°



- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ Quality classification under EN 15570, Level 3
- ▶ For door thickness 15 - 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

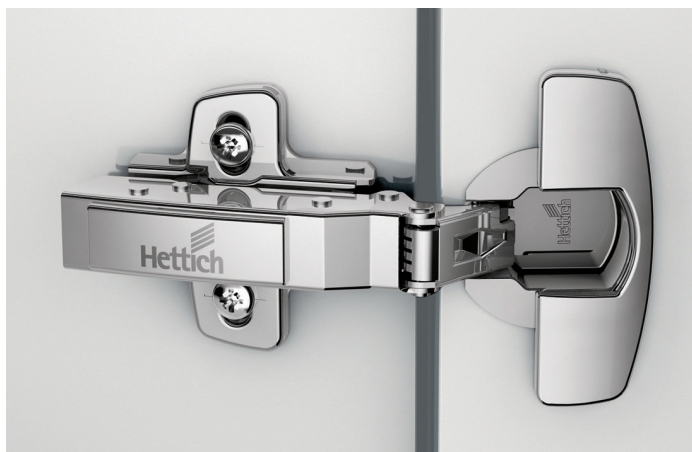
Sensys 8645, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 073 638	9 073 639	9 073 640	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 073 641	9 073 642	9 073 643	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 073 644	9 073 645	9 073 646	50 ea.
with premounted expanding sockets TH 58		ϕ 10 x 11	9 073 695	9 073 696	9 073 697	50 ea.
for screwing on TB 52		-	9 073 647	9 072 648	9 073 649	50 ea.
for pressing in TB 53		ϕ 8 x 11	9 073 650	9 073 651	9 073 652	50 ea.
Fix fast installation TB 55		ϕ 8 x 6	9 073 653	9 073 654	9 073 655	50 ea.
with premounted expanding sockets TB 58		ϕ 8 x 11	9 073 698	9 073 699	9 073 700	50 ea.
for screwing on TS 52		-	9 073 656	9 073 657	9 073 658	50 ea.
for pressing in TS 53		ϕ 10 x 11	9 073 659	9 073 660	9 073 661	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 073 644	9 073 645	9 073 646	50 ea.
with premounted expanding sockets TS 58		ϕ 10 x 11	9 073 701	9 073 702	9 073 703	50 ea.

Fast assembly concealed hinge without integrated Silent System


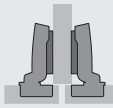

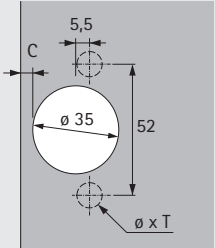
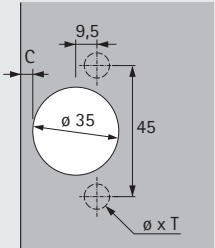
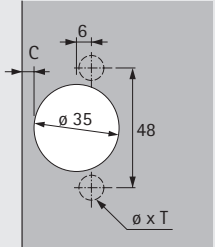
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CAD

- ▶ 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 - 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

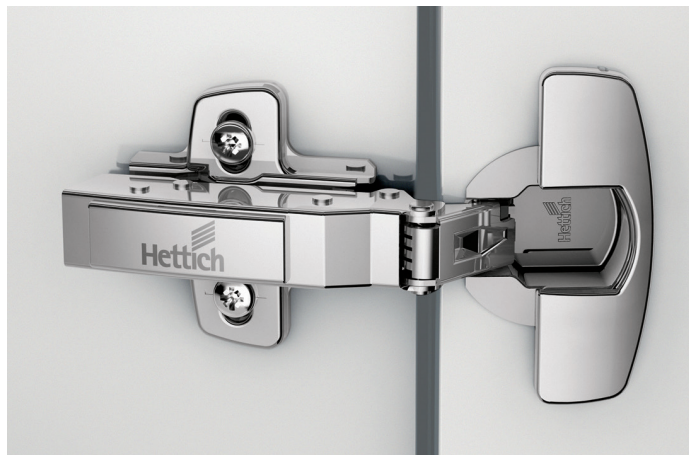
Sensys 8645, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 071 259	9 071 260	9 071 261	200 ea.
for pressing in TH 53		\varnothing 10 x 11	9 071 262	9 071 263	9 071 264	200 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 071 274	9 071 275	9 071 276	200 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 073 576	9 073 577	9 073 578	200 ea.
for screwing on TB 52		-	9 071 277	9 071 278	9 071 279	200 ea.
for pressing in TB 53		\varnothing 8 x 11	9 071 280	9 071 281	9 071 282	200 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 071 292	9 071 293	9 071 294	200 ea.
With premounted expanding sockets TB 58		\varnothing 8 x 11	9 072 389	9 073 579	9 073 580	200 ea.
for screwing on TS 52		-	9 071 295	9 071 296	9 071 297	200 ea.
for pressing in TS 53		\varnothing 10 x 11	9 071 298	9 071 299	9 071 300	200 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 071 274	9 071 275	9 071 276	200 ea.
With premounted expanding sockets TS 58		\varnothing 10 x 11	9 073 581	9 073 582	9 073 583	200 ea.

Fast assembly concealed hinge without self closing feature


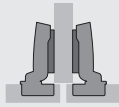

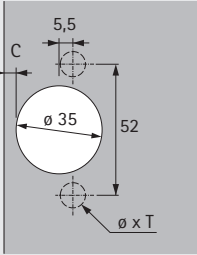
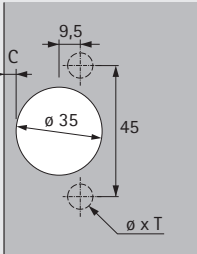
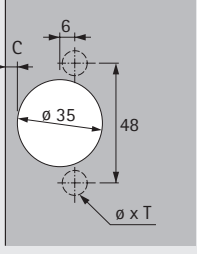


- ▶ Sensys 8675
- ▶ Opening angle 110°



- ▶ 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8675, opening angle 110°

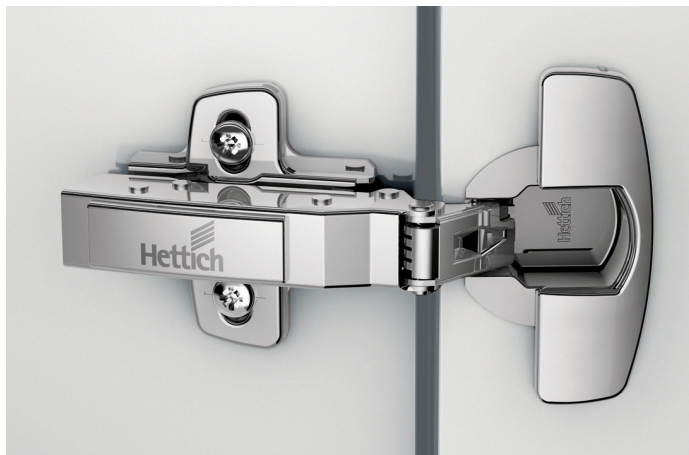
Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 073 662	9 073 663	9 073 664	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 073 665	9 073 666	9 073 667	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 073 668	9 073 669	9 073 670	50 ea.
with premounted expanding sockets TH 58		ϕ 10 x 11	9 073 704	9 073 705	9 073 706	50 ea.
for screwing on TB 52		-	9 073 671	9 073 672	9 073 673	50 ea.
for pressing in TB 53		ϕ 8 x 11	9 073 674	9 073 675	9 073 676	50 ea.
Fix fast installation TB 55		ϕ 8 x 6	9 073 677	9 073 678	9 073 679	50 ea.
with premounted expanding sockets TB 58		ϕ 8 x 11	9 073 707	9 073 708	9 073 709	50 ea.
for screwing on TS 52		-	9 073 680	9 073 681	9 073 682	50 ea.
for pressing in TS 53		ϕ 10 x 11	9 073 683	9 073 684	9 073 685	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 073 668	9 073 669	9 073 670	50 ea.
with premounted expanding sockets TS 58		ϕ 10 x 11	9 073 710	9 073 711	9 073 712	50 ea.

Fast assembly concealed hinge without self closing feature

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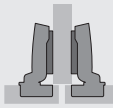

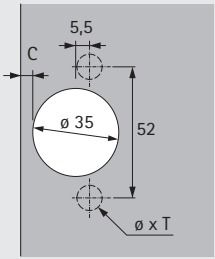
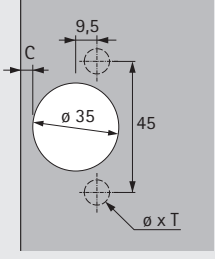
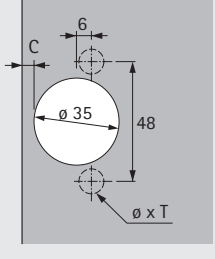
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- ▶ Sensys 8675
- ▶ Opening angle 110°



- ▶ 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8675, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 071 313	9 071 314	9 071 315	200 ea.
for pressing in TH 53		$\varnothing 10 \times 11$	9 071 316	9 071 317	9 071 318	200 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	9 071 328	9 071 329	9 071 330	200 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 11$	9 073 584	9 073 585	9 073 586	200 ea.
for screwing on TB 52		-	9 071 331	9 071 332	9 071 333	200 ea.
for pressing in TB 53		$\varnothing 8 \times 11$	9 071 334	9 071 335	9 071 336	200 ea.
Fix fast installation TB 55		$\varnothing 8 \times 6$	9 071 346	9 071 347	9 071 348	200 ea.
With premounted expanding sockets TB 58		$\varnothing 8 \times 11$	9 073 587	9 073 588	9 073 589	200 ea.
for screwing on TS 52		-	9 071 349	9 071 350	9 071 351	200 ea.
for pressing in TS 53		$\varnothing 10 \times 11$	9 071 352	9 071 353	9 071 354	200 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	9 071 328	9 071 329	9 071 330	200 ea.
With premounted expanding sockets TS 58		$\varnothing 10 \times 11$	9 073 590	9 073 591	9 073 592	200 ea.

Fast assembly concealed hinge

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



Minimum reveal per door

Door 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:

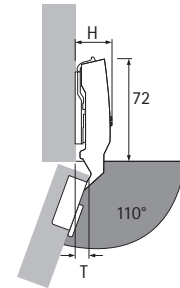
The table entries refer to doors with an edge radius of 1 mm.

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

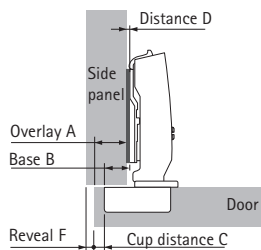
Protrusions / installed depth



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

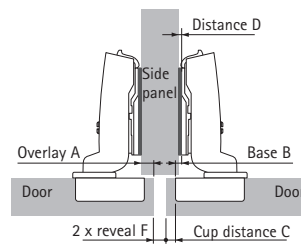


$$\text{Distance D} = C + B - A$$

= 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

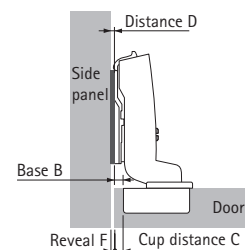


$$\text{Distance D} = C + B - A$$

= 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



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

= cup distance C - 4 mm + reveal F

Door 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

Advice

- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX

Fast assembly concealed hinge with integrated Silent System

Hett
CAD


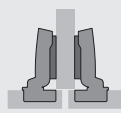

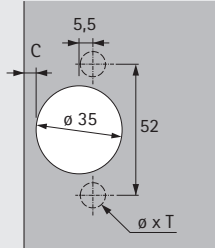
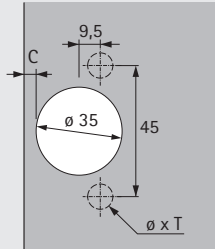
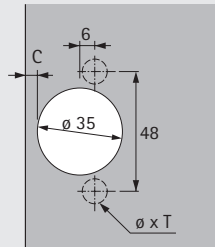
INTERFER
www.interfer.pt

- ▶ 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
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8631i, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 091 400	9 091 410	9 091 420	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 091 401	9 091 411	9 091 421	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 11	9 091 406	9 091 416	9 091 426	50 ea.
for screwing on TB 52		-	9 091 430	9 091 440	9 091 450	50 ea.
for pressing in TB 53		ϕ 8 x 11	9 091 431	9 091 441	9 091 451	50 ea.
With premounted expanding sockets TB 58		ϕ 8 x 11	9 091 436	9 091 446	9 091 456	50 ea.
for screwing on TS 52		-	9 091 460	9 091 470	9 091 480	50 ea.
for pressing in TS 53		ϕ 10 x 11	9 091 461	9 091 471	9 091 481	50 ea.
With premounted expanding sockets TS 58		ϕ 10 x 11	9 091 466	9 091 476	9 091 486	50 ea.

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
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8631i, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	full overlay	half overlay	inset	PU
			Base B 12,5 mm	Base B 3 mm	Base B -4 mm	
for screwing on TH 52		-	9 090 260	9 090 270	9 090 280	200 ea.
for pressing in TH 53		$\varnothing 10 \times 11$	9 090 261	9 090 271	9 090 281	200 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 11$	9 090 266	9 090 276	9 090 286	200 ea.
for screwing on TB 52		-	9 090 290	9 090 300	9 090 310	200 ea.
for pressing in TB 53		$\varnothing 8 \times 11$	9 090 291	9 090 301	9 090 311	200 ea.
With premounted expanding sockets TB 58		$\varnothing 8 \times 11$	9 090 296	9 090 306	9 090 316	200 ea.
for screwing on TS 52		-	9 090 320	9 090 330	9 090 340	200 ea.
for pressing in TS 53		$\varnothing 10 \times 11$	9 090 321	9 090 331	9 090 341	200 ea.
With premounted expanding sockets TS 58		$\varnothing 10 \times 11$	9 090 326	9 090 336	9 090 346	200 ea.

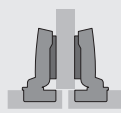

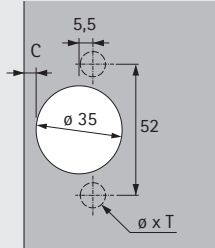
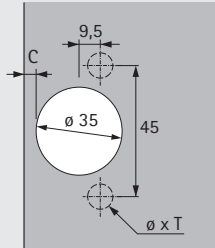
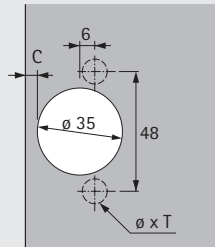
Fast assembly concealed hinge without integrated Silent System

- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 091 490	9 091 500	9 091 510	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 091 491	9 091 501	9 091 511	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 11	9 091 496	9 091 506	9 091 516	50 ea.
for screwing on TB 52		-	9 091 520	9 091 530	9 091 540	50 ea.
for pressing in TB 53		ϕ 8 x 11	9 091 521	9 091 531	9 091 541	50 ea.
With premounted expanding sockets TB 58		ϕ 8 x 11	9 091 526	9 091 536	9 091 546	50 ea.
for screwing on TS 52		-	9 091 550	9 091 560	9 091 570	50 ea.
for pressing in TS 53		ϕ 10 x 11	9 091 551	9 091 561	9 091 571	50 ea.
With premounted expanding sockets TS 58		ϕ 10 x 11	9 091 556	9 091 566	9 091 576	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
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- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	full overlay	half overlay	inset	PU
			Base B 12,5 mm	Base B 3 mm	Base B -4 mm	
for screwing on TH 52		-	9 090 350	9 090 360	9 090 370	200 ea.
for pressing in TH 53		$\varnothing 10 \times 11$	9 090 351	9 090 361	9 090 371	200 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 11$	9 090 356	9 090 366	9 090 376	200 ea.
for screwing on TB 52		-	9 090 380	9 090 390	9 090 400	200 ea.
for pressing in TB 53		$\varnothing 8 \times 11$	9 090 381	9 090 391	9 090 401	200 ea.
With premounted expanding sockets TB 58		$\varnothing 8 \times 11$	9 090 386	9 090 396	9 090 406	200 ea.
for screwing on TS 52		-	9 090 410	9 090 420	9 090 430	200 ea.
for pressing in TS 53		$\varnothing 10 \times 11$	9 090 411	9 090 421	9 090 431	200 ea.
With premounted expanding sockets TS 58		$\varnothing 10 \times 11$	9 090 416	9 090 426	9 090 436	200 ea.


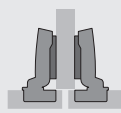

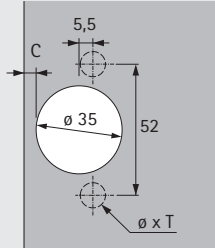
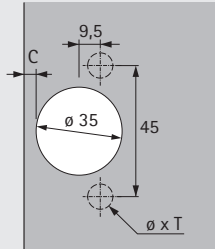
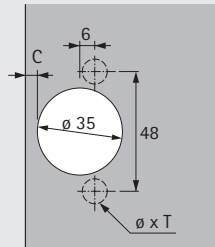
Fast assembly concealed hinge without self closing feature

- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 091 580	9 091 590	9 091 600	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 091 581	9 091 591	9 091 601	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 11	9 091 586	9 091 596	9 091 606	50 ea.
for screwing on TB 52		-	9 091 610	9 091 620	9 091 630	50 ea.
for pressing in TB 53		ϕ 8 x 11	9 091 611	9 091 621	9 091 631	50 ea.
With premounted expanding sockets TB 58		ϕ 8 x 11	9 091 616	9 091 626	9 091 636	50 ea.
for screwing on TS 52		-	9 091 640	9 091 650	9 091 660	50 ea.
for pressing in TS 53		ϕ 10 x 11	9 091 641	9 091 651	9 091 661	50 ea.
With premounted expanding sockets TS 58		ϕ 10 x 11	9 091 646	9 091 656	9 091 666	50 ea.


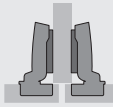

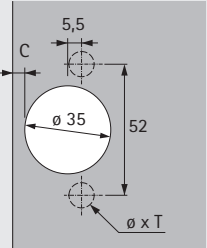
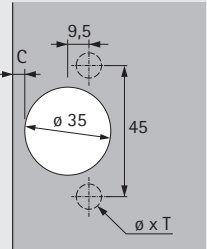
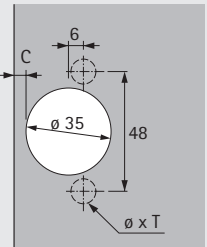
Fast assembly concealed hinge without self closing feature

- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 090 440	9 090 450	9 090 460	200 ea.
for pressing in TH 53		$\varnothing 10 \times 11$	9 090 441	9 090 451	9 090 461	200 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 11$	9 090 446	9 090 456	9 090 466	200 ea.
for screwing on TB 52		-	9 090 470	9 090 480	9 090 490	200 ea.
for pressing in TB 53		$\varnothing 8 \times 11$	9 090 471	9 090 481	9 090 491	200 ea.
With premounted expanding sockets TB 58		$\varnothing 8 \times 11$	9 090 476	9 090 486	9 090 496	200 ea.
for screwing on TS 52		-	9 090 500	9 090 510	9 090 520	200 ea.
for pressing in TS 53		$\varnothing 10 \times 11$	9 090 501	9 090 511	9 090 521	200 ea.
With premounted expanding sockets TS 58		$\varnothing 10 \times 11$	9 090 506	9 090 516	9 090 526	200 ea.

Fast assembly concealed hinge

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

Minimum reveal per door

Door 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:

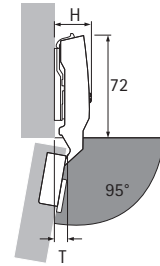
The table entries refer to doors with an edge radius of 1 mm.

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

Radius 0 mm:

Values shown in table + 0.4 mm

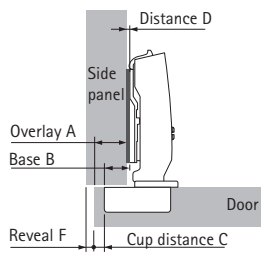
Protrusions / installed depth



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

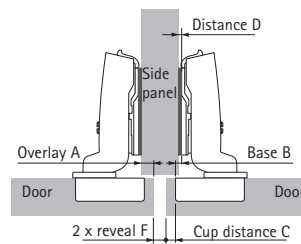


$$\text{Distance D} = C + B - A$$

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

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

half overlay

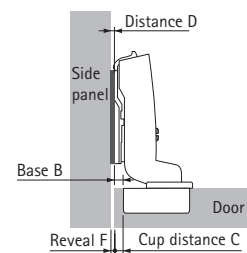


$$\text{Distance D} = C + B - A$$

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

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

inset



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

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

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

Advice

- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX

Fast assembly concealed hinge

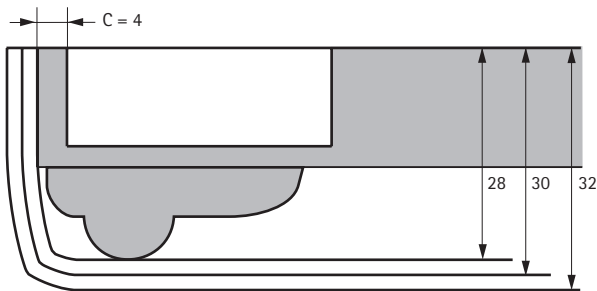
- ▶ Sensys 8631i / Sensys 8631 / Sensys 8661 for thick doors
- ▶ 95° opening angle

Door contours for minimum reveal application - scale 1:1

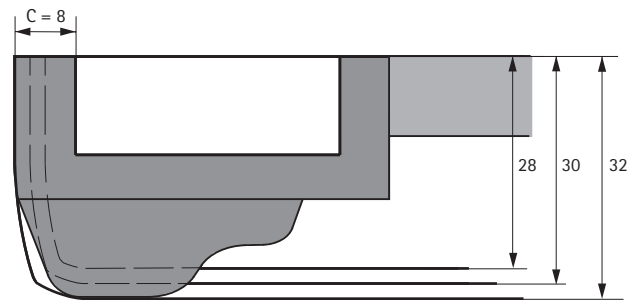
The values shown in the Minimum reveal table refer to an edge radius of 1 mm. Smaller reveal values apply if door edges are more rounded.
To obtain a minimum reveal application, the chosen door contour must lie within the template illustrated below. All contours protruding beyond the template will increase the reveal accordingly.



Example of minimum reveal application



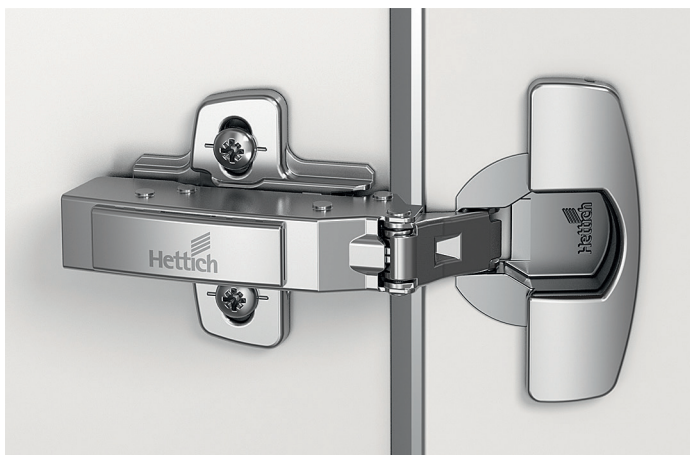
Example of minimum reveal application	
Door thickness	16 mm
Profile thickness	12 mm
Overall thickness	28 mm
Cup distance C	4 mm



Example of minimum reveal application	
Door thickness	19 mm
Profile thickness	13 mm
Overall thickness	32 mm
Cup distance C	8 mm


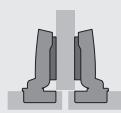

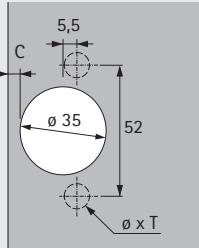
Fast assembly concealed hinge with integrated Silent System

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



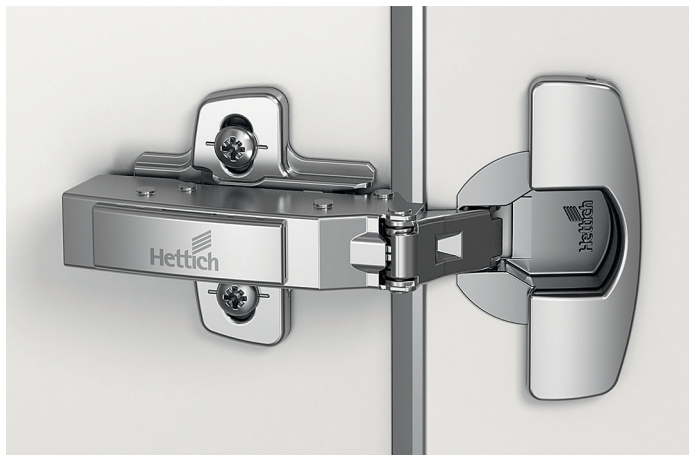
- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ For door thickness of 10 – 16 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 7.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge 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 8646i, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 094 270	9 094 280	9 094 290	50 ea.
for pressing in TH 53		ϕ 10 x 8	9 094 271	9 094 281	9 094 291	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 8	9 094 276	9 094 286	9 094 296	50 ea.


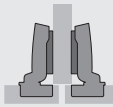

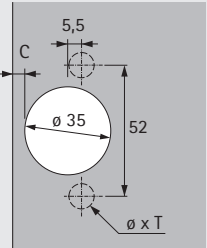
Fast assembly concealed hinge with integrated Silent System

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



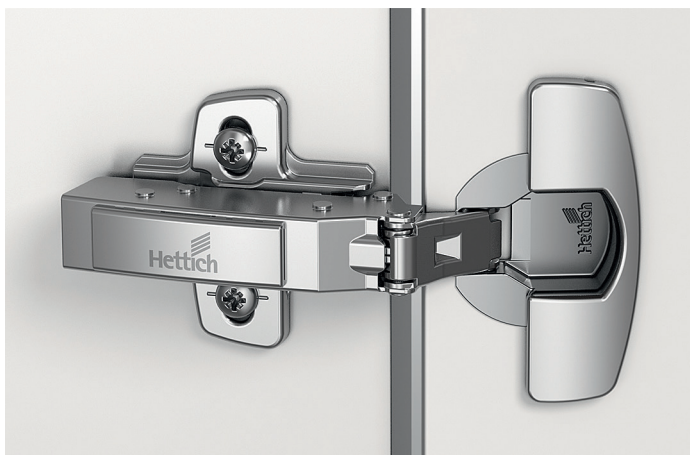
- ▶ Concealed hinge with clip on installation and integrated Silent System
- ▶ For door thickness of 10 – 16 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 7.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ Hinge 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 8646i, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole $\varnothing \times T$ mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 094 000	9 094 010	9 094 020	200 ea.
for pressing in TH 53		$\varnothing 10 \times 8$	9 094 001	9 094 011	9 094 021	200 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 8$	9 094 006	9 094 016	9 094 026	200 ea.


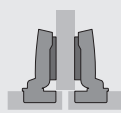

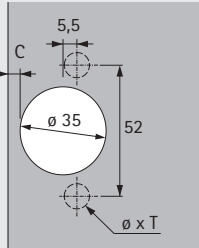
Fast assembly concealed hinge without integrated Silent System

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



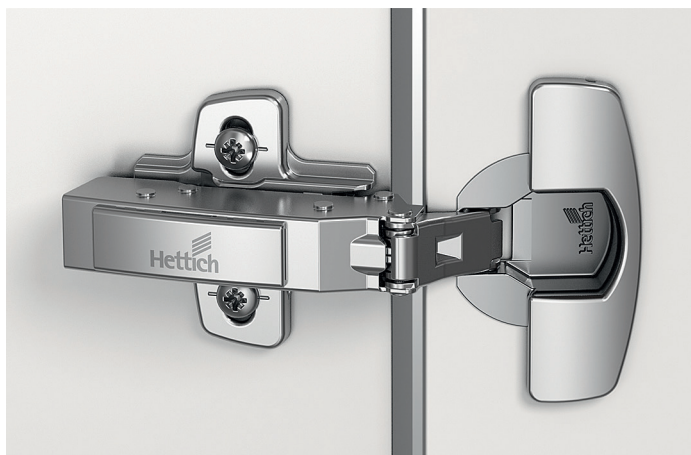
- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ For door thickness of 10 – 16 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 7.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	50 ea.
for pressing in TH 53		ϕ 10 x 8	9 094 360	9 094 370	9 094 380	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 8	9 094 361	9 094 371	9 094 381	50 ea.
			9 094 366	9 094 376	9 094 386	50 ea.


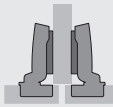

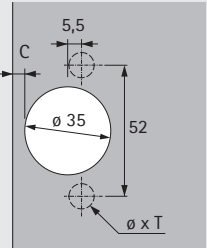
Fast assembly concealed hinge without integrated Silent System

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



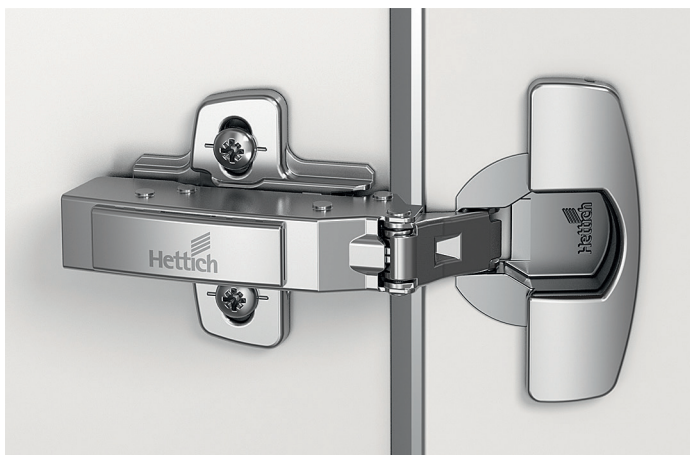
- ▶ Concealed hinge with clip on installation without integrated Silent System
- ▶ For door thickness of 10 – 16 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 7.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height adjustment at mounting plate
- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	200 ea.
for pressing in TH 53		\varnothing 10 x 8	9 094 090	9 094 100	9 094 110	200 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 8	9 094 091	9 094 101	9 094 111	200 ea.
			9 094 096	9 094 106	9 094 116	200 ea.


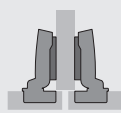

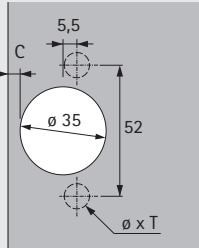
Fast assembly concealed hinge without self closing feature

- ▶ Sensys 8676 for thin doors
- ▶ 110° opening angle



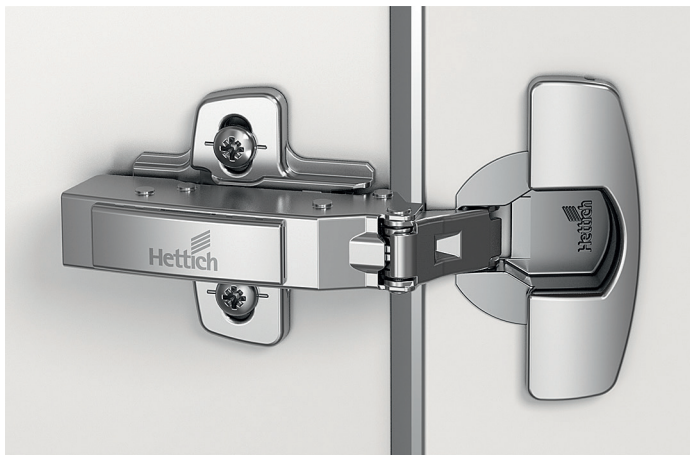
- ▶ Hinge with clip on installation without self closing feature
- ▶ For example, for Push to open applications
- ▶ For door thickness of 10 - 16 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 7.8 mm
- ▶ Integrated overlay adjustment + 2 mm / - 2 mm
- ▶ Integrated depth adjustment + 3 mm / - 2 mm
- ▶ Height 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 8676, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 094 450	9 094 460	9 094 470	50 ea.
for pressing in TH 53		ϕ 10 x 8	9 094 451	9 094 461	9 094 471	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 8	9 094 456	9 094 466	9 094 476	50 ea.


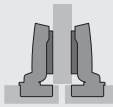

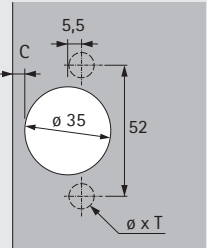
Fast assembly concealed hinge without self closing feature

- ▶ Sensys 8676 for thin doors
- ▶ 110° opening angle



- ▶ Hinge with clip on installation without self closing feature
- ▶ For example, for Push to open applications
- ▶ 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 8676, opening angle 110°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	full overlay	half overlay	inset	PU
						
for screwing on TH 52		-	9 094 180	9 094 190	9 094 200	200 ea.
for pressing in TH 53		\varnothing 10 x 8	9 094 181	9 094 191	9 094 201	200 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 8	9 094 186	9 094 196	9 094 206	200 ea.

Fast assembly concealed hinge

- ▶ Sensys 8646i / Sensys 8646 / Sensys 8676 for thin doors
- ▶ 110° opening angle

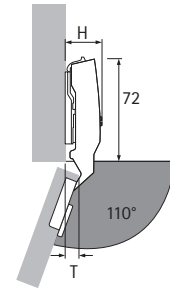
Minimum reveal per door

Door 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.

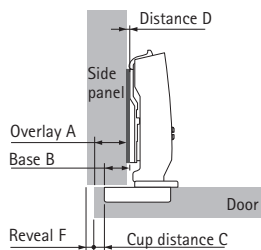
Protrusions / installed depth



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

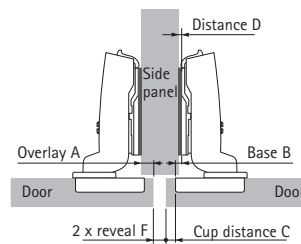


$$\text{Distance D} = C + B - A$$

= 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

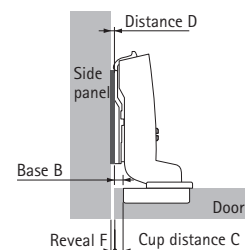


$$\text{Distance D} = C + B - A$$

= 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



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

= cup distance C - 4 mm + reveal F

Door 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

Advice

- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX



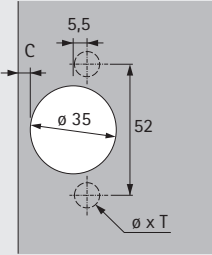
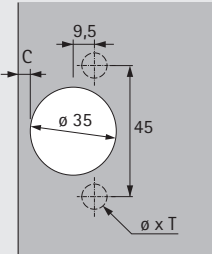
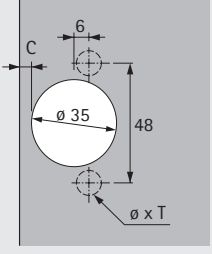
Fast assembly concealed hinge with integrated Silent System

- ▶ 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Hinge cup material: nickel plated steel

Sensys 8657i, opening angle 165°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	full overlay	half overlay	PU
					
for screwing on TH 52		-	9 099 540	9 099 550	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 099 541	9 099 551	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 099 543	9 099 553	50 ea.
with premounted expanding sockets TH 58		\varnothing 10 x 11	9 099 546	9 099 556	50 ea.
for screwing on TB 52		-	9 099 560	9 099 570	50 ea.
for pressing in TB 53		\varnothing 8 x 11	9 099 561	9 099 571	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 099 563	9 099 573	50 ea.
with premounted expanding sockets TB 58		\varnothing 8 x 11	9 099 566	9 099 576	50 ea.
for screwing on TS 52		-	9 099 580	9 099 590	50 ea.
for pressing in TS 53		\varnothing 10 x 11	9 099 581	9 099 591	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 099 543	9 099 553	50 ea.
with premounted expanding sockets TS 58		\varnothing 10 x 11	9 099 586	9 099 596	50 ea.



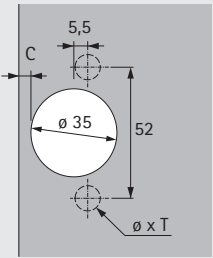
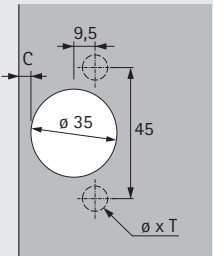
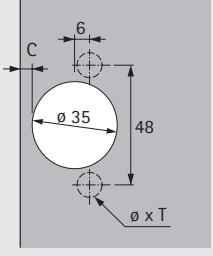
Fast assembly concealed hinge without integrated Silent System

- ▶ 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 \varnothing x T mm	full overlay	half overlay	PU
					
for screwing on TH 52		-	9 099 600	9 099 610	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 099 601	9 099 611	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 099 603	9 099 613	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 099 606	9 099 616	50 ea.
for screwing on TB 52		-	9 099 620	9 099 630	50 ea.
for pressing in TB 53		\varnothing 8 x 11	9 099 621	9 099 631	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 099 623	9 099 633	50 ea.
With premounted expanding sockets TB 58		\varnothing 8 x 11	9 099 626	9 099 636	50 ea.
for screwing on TS 52		-	9 099 640	9 099 650	50 ea.
for pressing in TS 53		\varnothing 10 x 11	9 099 641	9 099 651	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 099 603	9 099 613	50 ea.
with premounted expanding sockets TS 58		\varnothing 10 x 11	9 099 646	9 099 656	50 ea.



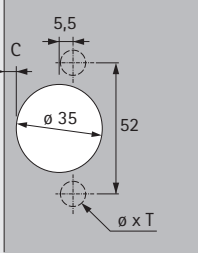
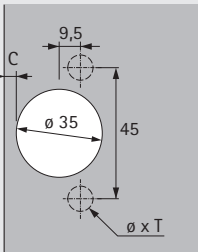
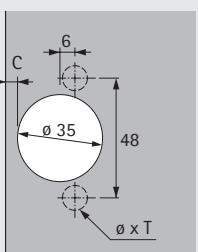
Fast assembly concealed hinge without self closing feature

- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	full overlay	half overlay	PU
					
for screwing on TH 52		-	9 099 660	9 099 670	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 099 661	9 099 671	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 099 663	9 099 673	50 ea.
with premounted expanding sockets TH 58		\varnothing 10 x 11	9 099 666	9 099 676	50 ea.
for screwing on TB 52		-	9 099 680	9 099 690	50 ea.
for pressing in TB 53		\varnothing 8 x 11	9 099 681	9 099 691	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 099 683	9 099 693	50 ea.
with premounted expanding sockets TB 58		\varnothing 8 x 11	9 099 686	9 099 696	50 ea.
for screwing on TS 52		-	9 099 700	9 099 710	50 ea.
for pressing in TS 53		\varnothing 10 x 11	9 099 701	9 099 711	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 099 663	9 099 673	50 ea.
with premounted expanding sockets TS 58		\varnothing 10 x 11	9 099 706	9 099 716	50 ea.

Fast assembly concealed hinge

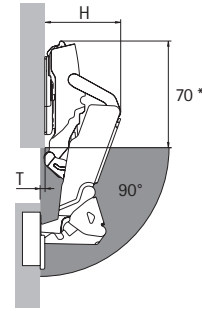
- ▶ Sensys 8657i / Sensys 8657 / Sensys 8687
- ▶ Opening angle 165°

Minimum reveal per door

Door 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°

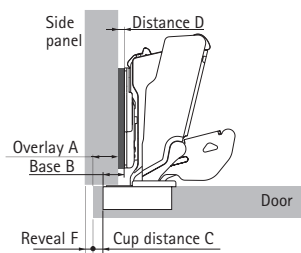
Protrusions / installed depth



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

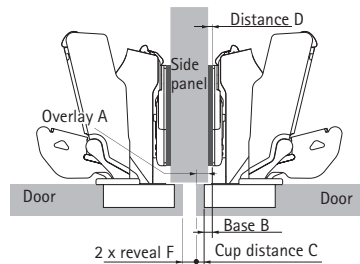


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

= 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

Advice

- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX



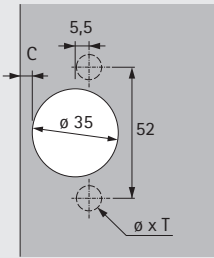
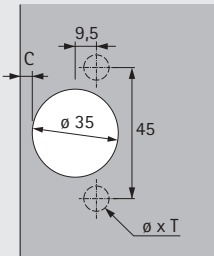
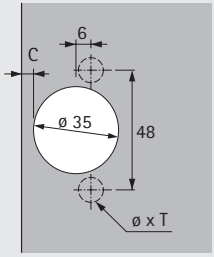
Fast assembly concealed hinge with integrated Silent System

- ▶ 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, carcass 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
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8639i W30, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	overlay	inset	PU
					
for screwing on TH 52		-	9 088 016	9 088 017	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 088 034	9 088 035	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 070	9 088 071	50 ea.
With premounted expanding socket TH 58		\varnothing 10 x 11	9 088 082	9 088 083	50 ea.
for screwing on TB 52		-	9 088 022	9 088 023	50 ea.
for pressing in TB 53		\varnothing 8 x 11	9 088 040	9 088 041	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 088 076	9 088 077	50 ea.
With premounted expanding socket TB 58		\varnothing 8 x 11	9 088 088	9 088 089	50 ea.
for screwing on TS 52		-	9 088 028	9 088 029	50 ea.
for pressing in TS 53		\varnothing 10 x 11	9 088 046	9 088 047	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 070	9 088 071	50 ea.
With premounted expanding socket TS 58		\varnothing 10 x 11	9 088 094	9 088 095	50 ea.

Fast assembly concealed hinge without integrated Silent System

- ▶ Sensys 8639 W30
- ▶ For 30° 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, carcass 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
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8639 W30, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	overlay	inset	PU
for screwing on TH 52		-	9 088 100	9 088 101	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 088 118	9 088 119	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 136	9 088 137	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 088 154	9 088 155	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 088 142	9 088 143	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 136	9 088 137	50 St.

Fast assembly concealed hinge without self closing feature

- ▶ Sensys 8669 W30
- ▶ For 30° 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, carcass 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
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8669 W30, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	overlay	inset	PU
for screwing on TH 52		-	9 088 176	9 088 177	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 088 194	9 088 195	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 212	9 088 213	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 088 224	9 088 225	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 088 218	9 088 219	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 212	9 088 213	50 St.

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 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

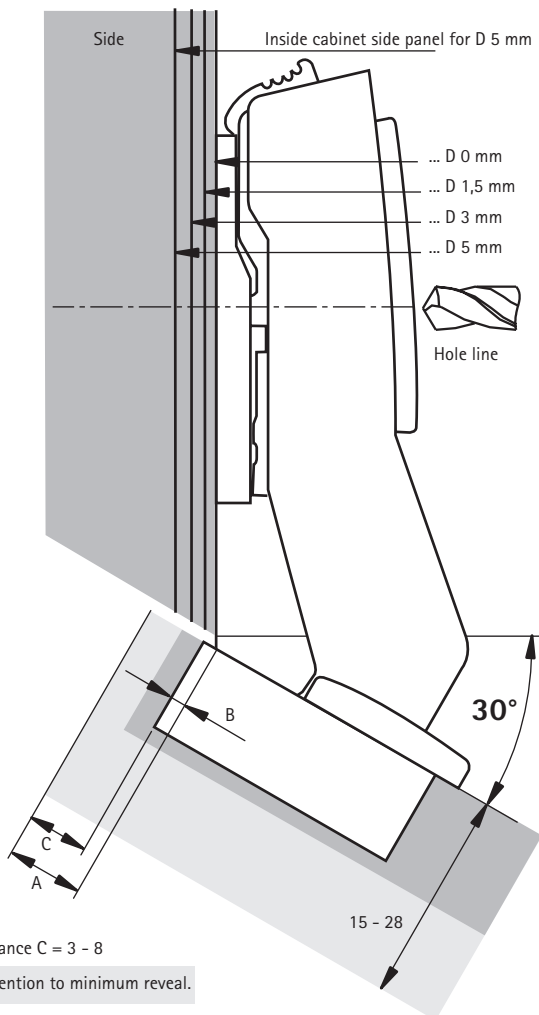
Radius 3 mm:
Values shown in table - 0.6 mm

Note

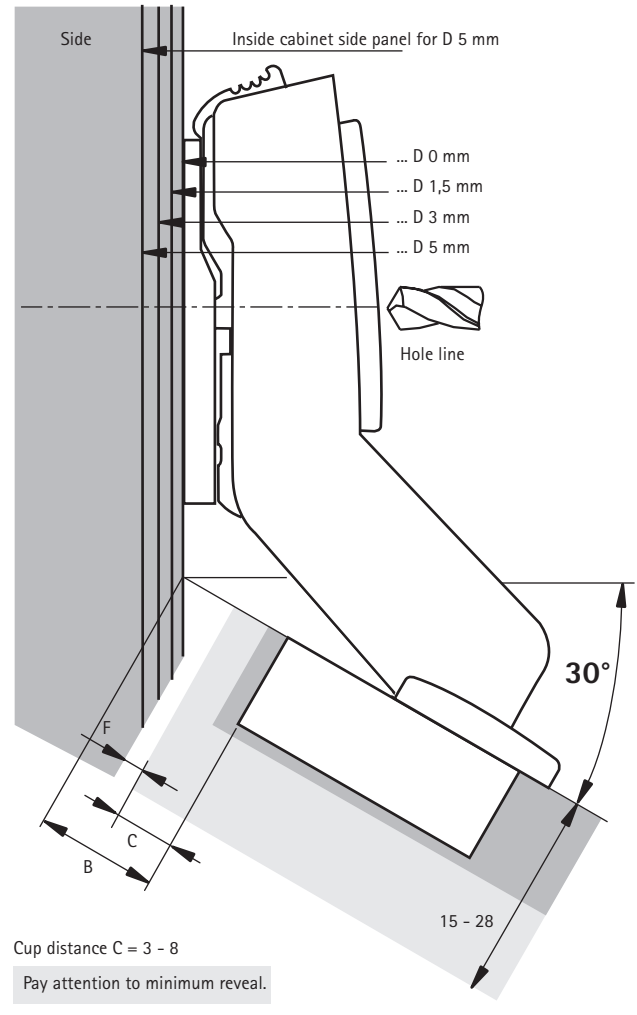
The drawings below show the hinges including mounting plate distances on a scale of 1:1. Allowing for cup distance C (3 – 8 mm) as well as the minimum reveal, the required mounting plate distance and hole line can be determined by drawing in the door and side panel.

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



Advice

- ▶ *not available in all markets
- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX

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, carcass 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 8639i W45, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	overlay		inset	PU
			Basis B 9 mm	Basis B -2 mm	Basis B -25 mm	
for screwing on TH 52		-	9 088 018	9 088 019	9 088 020	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 088 036	9 088 037	9 088 038	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 088 072	9 088 073	9 088 074	50 ea.
With premounted expanding socket TH 58		ϕ 10 x 11	9 088 084	9 088 085	9 088 086	50 ea.
for screwing on TB 52		-	9 088 024	9 088 025	9 088 026	50 ea.
for pressing in TB 53		ϕ 8 x 11	9 088 042	9 088 043	9 088 044	50 ea.
Fix fast installation TB 55		ϕ 8 x 6	9 088 078	9 088 079	9 088 080	50 ea.
With premounted expanding socket TB 58		ϕ 8 x 11	9 088 090	9 088 091	9 088 092	50 ea.
for screwing on TS 52		-	9 088 030	9 088 031	9 088 032	50 ea.
for pressing in TS 53		ϕ 10 x 11	9 088 048	9 088 049	9 088 050	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 088 072	9 088 073	9 088 074	50 ea.
With premounted expanding socket TS 58		ϕ 10 x 11	9 088 096	9 088 097	9 088 098	50 ea.



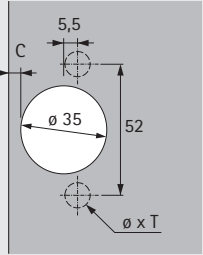
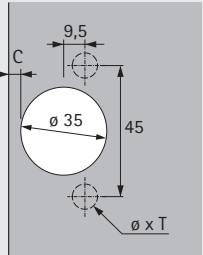
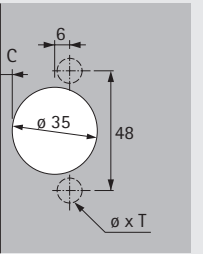
Fast assembly concealed hinge without integrated Silent System

- ▶ 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, carcass 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 $\varnothing \times T$ mm	overlay		inset	PU
						
for screwing on TH 52		-	9 088 102	9 088 103	9 088 104	50 ea.
for pressing in TH 53		$\varnothing 10 \times 11$	9 088 120	9 088 121	9 088 122	50 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	9 088 138	9 088 139	9 088 140	50 ea.
With premounted expanding sockets TH 58		$\varnothing 10 \times 11$	9 088 156	9 088 157	9 088 158	50 ea.
Fix fast installation TB 55		$\varnothing 8 \times 6$	9 088 144	9 088 145	9 088 146	50 ea.
Fix fast installation THS 55		$\varnothing 10 \times 6$	9 088 138	9 088 139	9 088 140	50 St.

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, carcass 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°

Cup assembly	Drilling pattern	Mounting hole ϕ x T mm	overlay		inset	PU
			Basis B -2 mm	Basis B 9 mm	Basis B -25 mm	
for screwing on TH 52		-	9 088 179	9 088 178	9 088 180	50 ea.
for pressing in TH 53		ϕ 10 x 11	9 088 197	9 088 196	9 088 198	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 088 215	9 088 214	9 088 216	50 ea.
With premounted expanding sockets TH 58		ϕ 10 x 11	9 088 227	9 088 226	9 088 228	50 ea.
Fix fast installation TB 55		ϕ 8 x 6	9 088 221	9 088 220	9 088 222	50 ea.
Fix fast installation THS 55		ϕ 10 x 6	9 088 215	9 088 214	9 088 216	50 St.

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 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

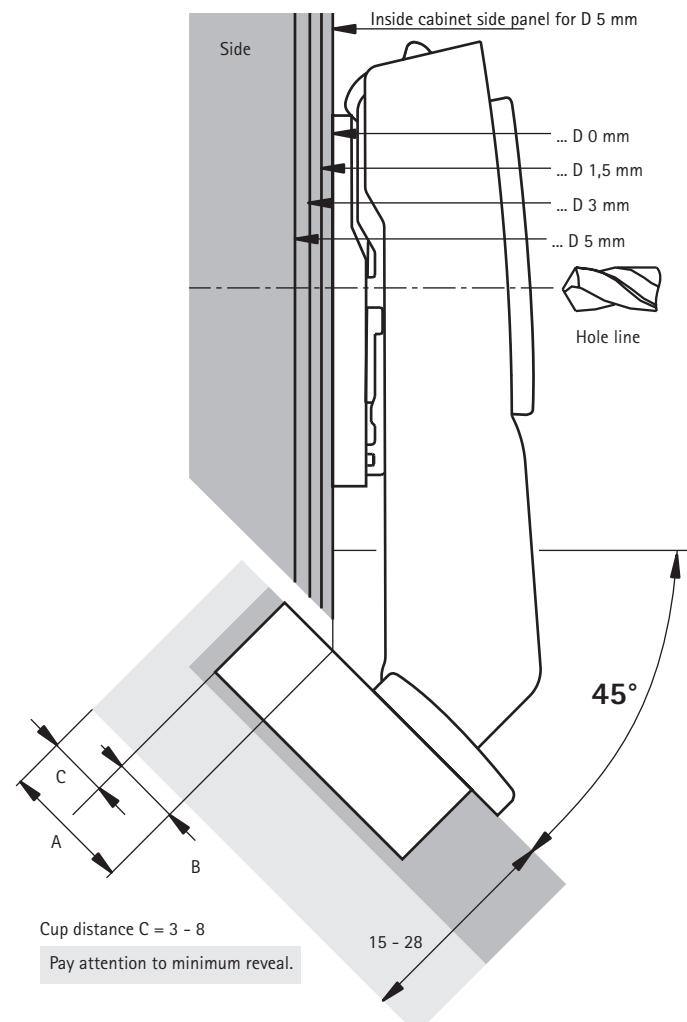
Radius 3 mm:
Values shown in table - 0.6 mm

Note

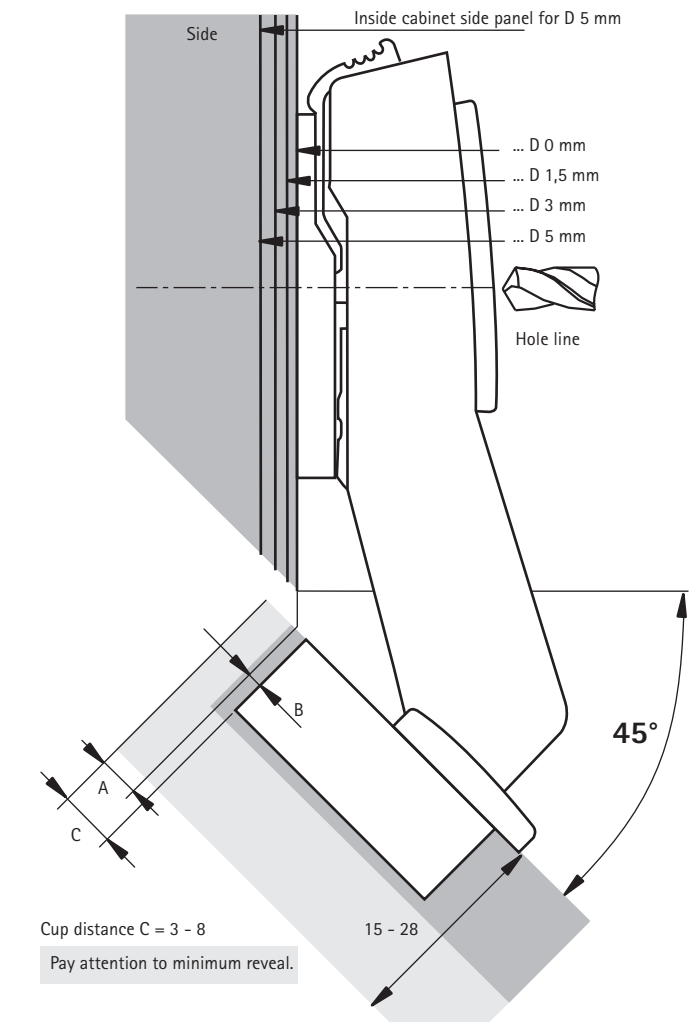
The drawings below show the hinges including mounting plate distances on a scale of 1:1. Allowing for cup distance C (3 - 8 mm) as well as the minimum reveal, the required mounting plate distance and hole line can be determined by drawing in the door and side panel.

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

overlay (B 9 mm) - Scale 1:1



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



Advice

- ▶ *not available in all markets
- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX

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 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

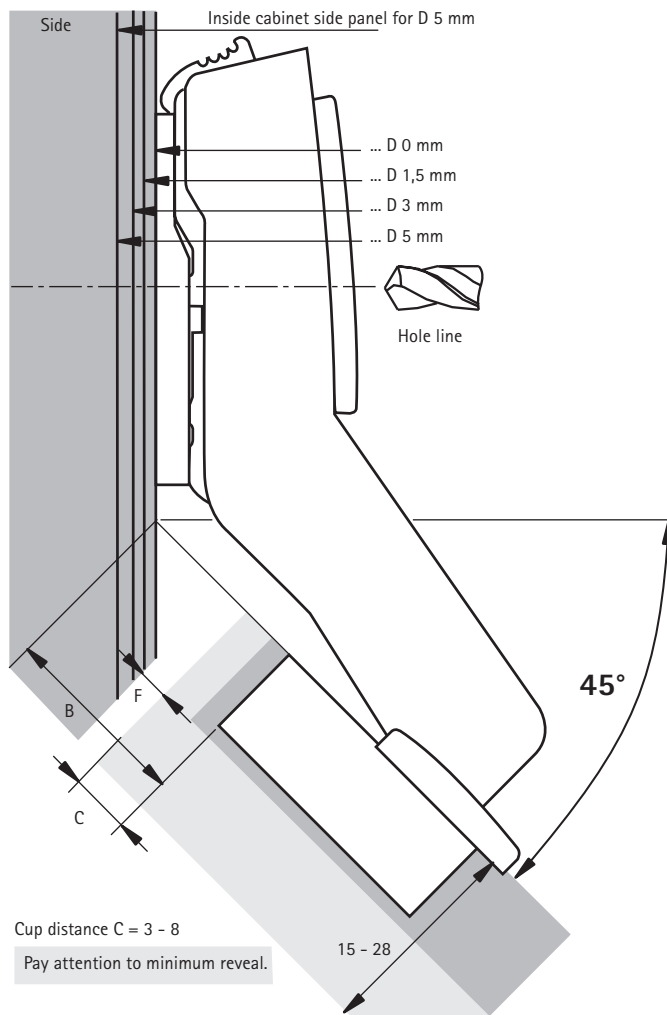
Radius 3 mm:
Values shown in table - 0.6 mm

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.

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



Advice

- ▶ *not available in all markets
- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX


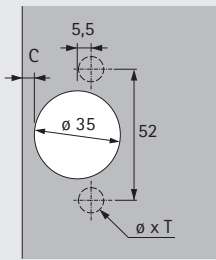
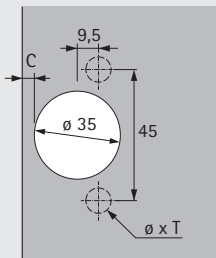
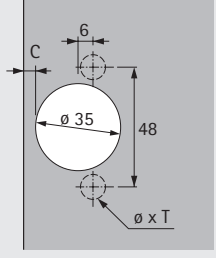
Fast assembly concealed hinge with integrated Silent System

- ▶ 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
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8639i W90, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	inset  Basis B 4 mm	PU
for screwing on TH 52		-	9 088 021	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 088 039	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 075	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 088 087	50 ea.
for screwing on TB 52		-	9 088 027	50 ea.
for pressing in TB 53		\varnothing 8 x 11	9 088 045	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 088 081	50 ea.
With premounted expanding sockets TB 58		\varnothing 8 x 11	9 088 093	50 ea.
for screwing on TS 52		-	9 088 033	50 ea.
for pressing in TS 53		\varnothing 10 x 11	9 088 051	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 075	50 ea.
With premounted expanding sockets TS 58		\varnothing 10 x 11	9 088 099	50 ea.


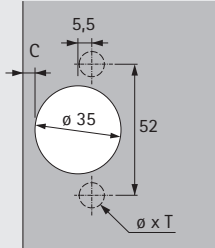
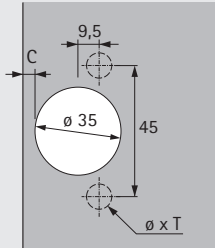
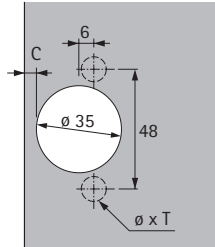
Fast assembly concealed hinge without integrated Silent System

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



- ▶ Concealed hinge with clip on installation without 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
- ▶ Hinge arm material: zinc die-cast nickel plated
- ▶ Hinge cup material: nickel plated steel

Sensys 8639 W90, opening angle 95°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	inset 	PU
for screwing on TH 52		-	9 088 105	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 088 123	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 141	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 088 159	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 088 147	50 ea.
Fix fast installation THS 55				


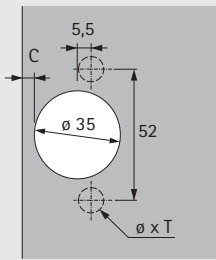
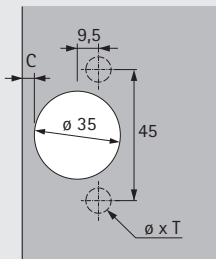
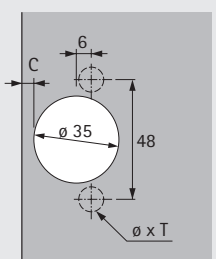
Fast assembly concealed hinge without self closing feature

- ▶ 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°

Cup assembly	Drilling pattern	Mounting hole \varnothing x T mm	inset 	
for screwing on TH 52		-	9 088 181	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 088 199	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 217	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 088 229	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 088 223	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 088 217	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 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

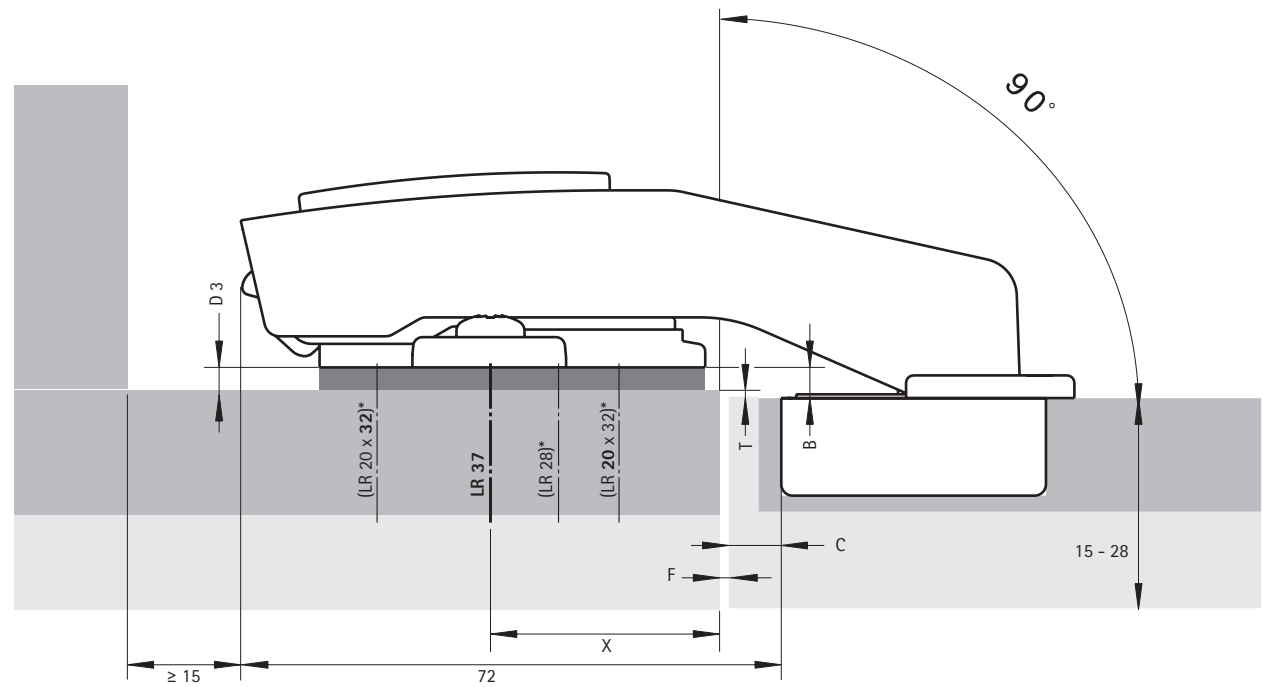
Calculation of required mounting plate distance D and hole line distance X to be observed:
Depending on the required door offset, cup distance C (3 - 7 mm) and reveal F, the dimensions can be seen in the drawing or table below.
The values stated for the hole line distance X apply when using a cross mounting 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

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)



Advice

- ▶ *not available in all markets
- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX

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
- ▶ Hinge arm material: nickel plated steel
- ▶ Cup hinge material: zinc die-cast nickel plated
- ▶ Including 2 fixing screws

Sensys 8638i, opening angle 95°

		full overlay	half overlay	inset	
Cup assembly	Mounting hole $\varnothing \times T$ mm	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
for screwing on TA 32	-	9 072 524	9 072 525	9 072 526	50 ea.

Fast assembly concealed hinge without integrated Silent System

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



- ▶ Concealed hinge with clip on installation without 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Cup hinge material: zinc die-cast nickel plated
- ▶ Including 2 fixing screws

Sensys 8638, opening angle 95°

		full overlay	half overlay	inset	
Cup assembly	Mounting hole $\varnothing \times T$ mm	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
for screwing on TA 32	-	9 072 527	9 072 528	9 072 529	50 ea.

Fast assembly concealed hinge without self closing feature

- ▶ Sensys 8668 for aluminium framed 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 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
- ▶ Hinge arm material: nickel plated steel
- ▶ Cup hinge material: zinc die-cast nickel plated
- ▶ Including 2 fixing screws

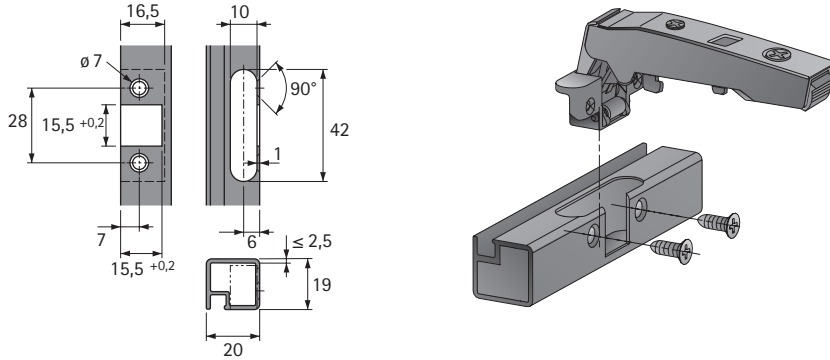
Sensys 8668, opening angle 95°

		full overlay	half overlay	inset	
Cup assembly	Mounting hole $\varnothing \times T$ mm	Base B 12,5 mm	Base B 3 mm	Base B -4 mm	PU
for screwing on TA 32	-	9 072 530	9 072 531	9 072 532	50 ea.

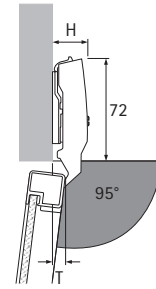
Fast assembly concealed hinge

- ▶ Sensys 8638i / Sensys 8638 / Sensys 8668
- ▶ 95° opening angle

Installation



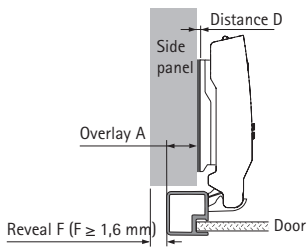
Protrusions / installed depth



Hinge protrusion H / door protrusion T for distance D = 0

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

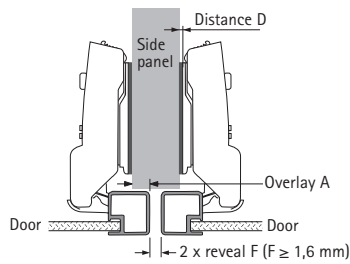
full overlay



$$\text{Distance D mm} = 4.5 \text{ mm} + B - A$$
$$= 4.5 \text{ mm} + 12.5 \text{ mm} - \text{Overlay A}$$

Overlay mm	Distance D mm
12	5.0
13	4.0
14	3.0
15	2.0
16	1.0
17	0.0

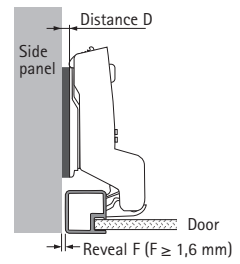
half overlay



$$\text{Distance D mm} = 4.5 \text{ mm} + B - A$$
$$= 4.5 \text{ mm} + 3 \text{ mm} - \text{Overlay A}$$

Overlay mm	Distance D mm
0	7.5
1	6.5
2	5.5
2.5	5.0
3	4.5
4	3.5
4.5	3.0
5	2.5
6	1.5
7	0.5
7.5	0.0

inset



$$\text{Distance D} = 4.5 \text{ mm} + B + F$$
$$= 4.5 \text{ mm} - 4 \text{ mm} + \text{reveal}$$

Reveal mm	Distance D mm
1.6	2.1
2	2.5
3	3.5
4	4.5
5	5.5

Advice

- ▶ For mounting plates and accessories, see page XXX
- ▶ For example applications, fitting information, installation notes and quality criteria, see page XXX

Fast assembly concealed hinge

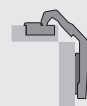
- ▶ Intermat 9930 with cup in Sensys design for corner cabinet folding doors
- ▶ 50° / 65° opening angle



- ▶ 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 \varnothing x T mm	Basis B 24 mm	PU
for screwing on TH 52		-	9 090 109	50 ea.
for pressing in TH 53		\varnothing 10 x 11	9 090 110	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 090 113	50 ea.
With premounted expanding sockets TH 58		\varnothing 10 x 11	9 090 107	50 ea.
for screwing on TB 52		-	9 090 115	50 ea.
for pressing in TB 53		\varnothing 8 x 11	9 090 116	50 ea.
Fix fast installation TB 55		\varnothing 8 x 6	9 090 119	50 ea.
With premounted expanding sockets TB 58		\varnothing 8 x 11	9 090 108	50 ea.
for screwing on TS 52		-	9 090 118	50 ea.
for pressing in TS 53		\varnothing 10 x 11	9 090 120	50 ea.
Fix fast installation THS 55		\varnothing 10 x 6	9 090 113	50 ea.
With premounted expanding sockets TS 58		\varnothing 10 x 11	9 090 123	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 = carcass width - reveal F - door thickness

Version B - Calculation of door width

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

Version A - Calculation of mounting plate distance

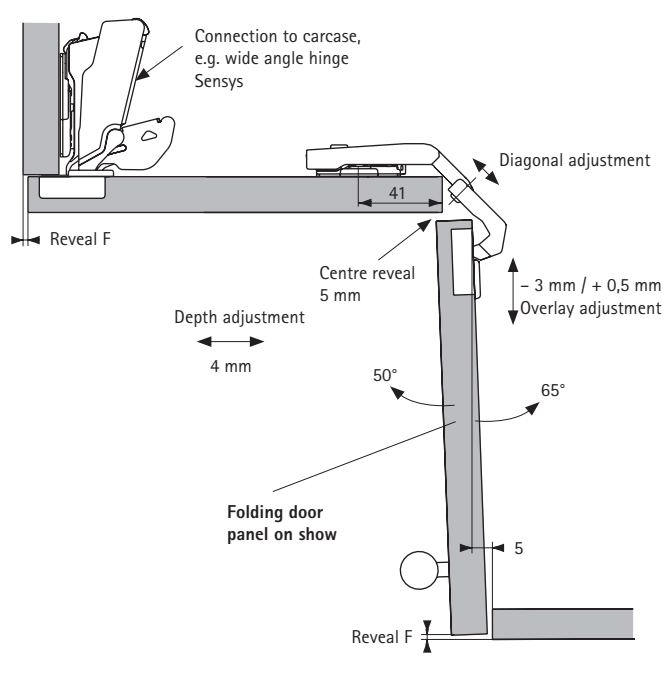
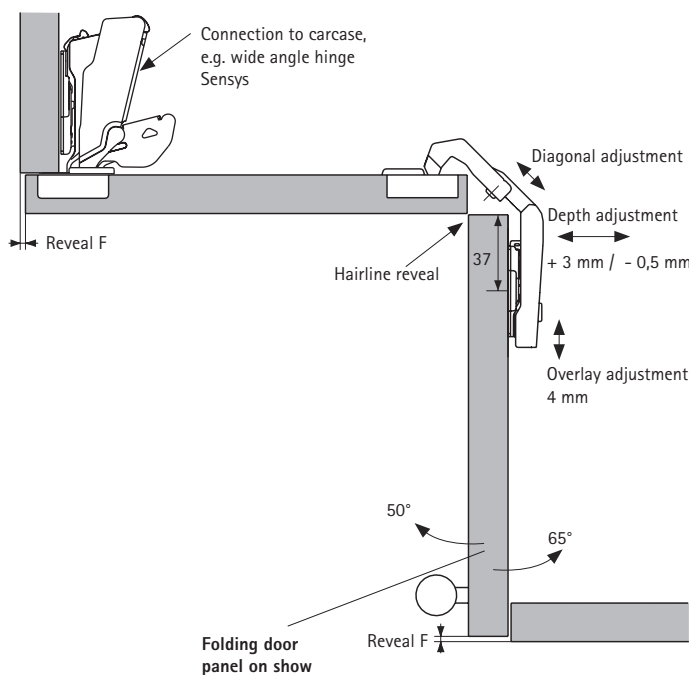
For cup distance C = 4.5 mm: Distance D = 0 mm
For cup distance C = 3.0 mm: Distance D = 1.5 mm

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.



Advice

For mounting plates and accessories, see page XXX
For mounting solutions, fitting information, installation notes and quality criteria, see page XXX

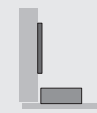
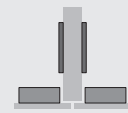
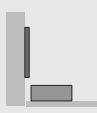
Fast assembly concealed hinge

- ▶ 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			9 073 607	50 ea.
Adapter (small pack, including fixing screws)	TH	9 081 923	9 081 923	9 081 923	2 ea.
Adapter (bulk packaging, without fixing screws)	TH	9 076 738	9 076 738	9 076 738	50 ea.
Fixing screws		9 076 418	9 076 418	9 076 418	100 ea.
Sensys 8657i B 3 mm, 165° opening angle	TB 52	9 099 570	9 099 570		50 ea.
Sensys 8631i B -4 mm, 95° opening angle	TB 52			9 091 450	50 ea.
Sensys 8645i B -4 mm, 110° opening angle	TB 52			9 073 619	50 ea.
Adapter (small pack, including fixing screws)	TB	9 082 604	9 082 604	9 082 604	2 ea.
Adapter (bulk packaging, without fixing screws)	TB	9 077 377	9 077 377	9 077 377	50 ea.
Fixing screws		9 076 418	9 076 418	9 076 418	100 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

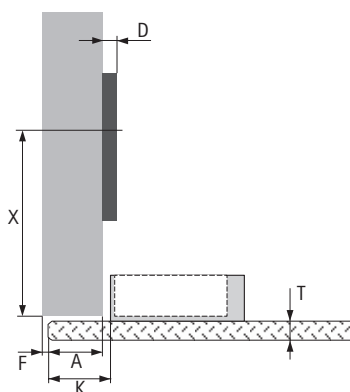
*Only for use with the opening angle limited to 120°

Minimum reveal per door

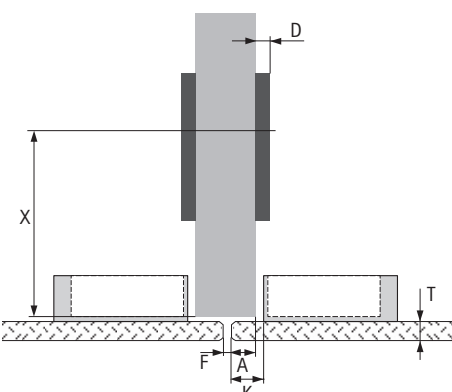
When dimensioning the door mounting, allowance must be made for a minimum reveal of 2 mm per door.

The edges of the glass door should be finished with an appropriate bevel of at least 1 mm.

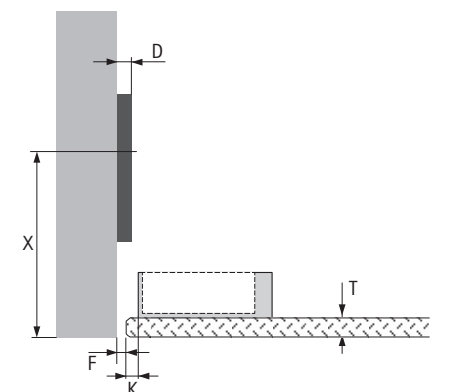
full overlay



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.

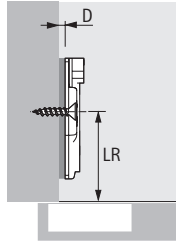
Advice

- ▶ For mounting plates, see page XXX - XXX
- ▶ For accessories, see page XXX - XXX
- ▶ For technical information, see page XXX - XXX
- ▶ For example applications, see page XXX - XXX

Fast assembly concealed hinge

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

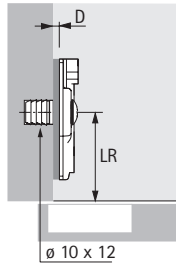
Cross mounting plate for screwing on



- ▶ 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
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
28	9 071 570	9 071 571	9 071 572	9 071 573	200 ea.
37	9 075 005	9 075 006	9 075 007	9 075 008	50 ea.
37	9 071 575	9 071 576	9 071 577	9 071 578	200 ea.

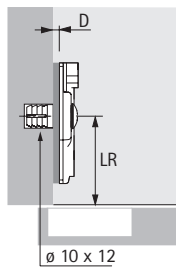
Cross mounting plate for pressing in



- ▶ For $\varnothing 10 \times 12$ mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
28	9 071 610	9 071 611	9 071 612	9 071 613	200 ea.
37	9 075 045	9 075 046	9 075 047	9 075 048	50 ea.
37	9 071 615	9 071 616	9 071 617	9 071 618	200 ea.

Cross mounting plate with expanding sockets and special screws



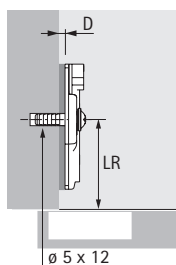
- ▶ For $\varnothing 10 \times 12$ mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
28	9 071 600	9 071 601	9 071 602	9 071 603	200 ea.
37	9 075 035	9 075 036	9 075 037	9 075 038	50 ea.
37	9 071 605	9 071 606	9 071 607	9 071 608	200 ea.

Fast assembly concealed hinge

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

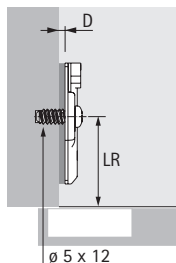
Cross mounting plate with expanding sockets and special screws



- ▶ For ø 5 x 12 mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 025	9 075 026	9 075 027	9 075 028	50 ea.
37	9 071 595	9 071 596	9 071 597	9 071 598	200 ea.

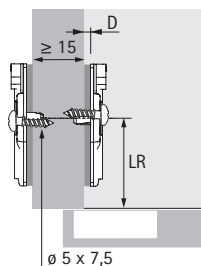
Cross mounting plate with premounted Euro screws



- ▶ For ø 5 x 12 mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Oblong hole height adjustment ± 3 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
28	9 071 620	9 071 621	9 071 622	9 071 623	200 ea.
37	9 075 055	9 075 056	9 075 057	9 075 058	50 ea.
37	9 071 625	9 071 626	9 071 627	9 071 628	200 ea.

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



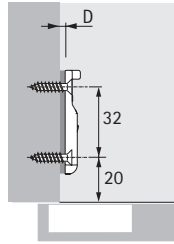
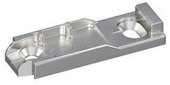
- ▶ For ø 5 x 7.5 mm holes
- ▶ Quality classification under EN 15570, Level 2
- ▶ Hole spacing 32 mm
- ▶ Half overlay door, from 15 mm side panel thickness
- ▶ Oblong hole height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 015	9 075 016	9 075 017	9 075 018	50 ea.
37	9 071 585	9 071 586	9 071 587	9 071 588	200 ea.

Fast assembly concealed hinge

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

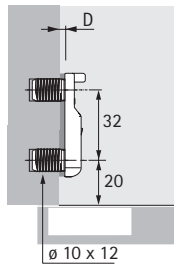
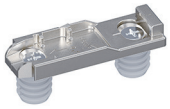
Linear mounting plate for screwing on



- ▶ For 3.5 mm \varnothing x 16 mm countersunk screws
- ▶ Quality classification under EN 15570, Level 3
- ▶ Oblong hole height adjustment ± 1.6 mm
- ▶ Zinc die-cast nickel plated

Hole line distance LR mm	Order no. / Distance D mm		PU
	0,5	3,0	
20	9 088 244	9 088 245	50 ea.

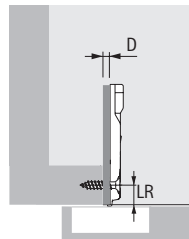
Linear mounting plate for pressing in



- ▶ For drilling $\varnothing 10$ mm x 12 mm
- ▶ Quality classification under EN 15570, Level 3
- ▶ Oblong hole height adjustment ± 1.6 mm
- ▶ Zinc die-cast nickel plated

Hole line distance LR mm	Order no. / Distance D mm		PU
	0,5	3,0	
20	9 088 242	9 088 243	50 ea.

System 8000 face frame mounting plate for screwing on



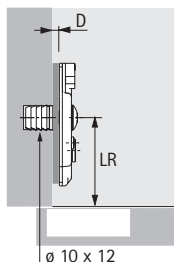
- ▶ For 4 mm \varnothing x 20 mm countersunk screws
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 40 mm
- ▶ Oblong hole height adjustment ± 2 mm
- ▶ Can only be used with Sensys hinges
- ▶ Zinc die-cast nickel plated

Hole line distance LR mm	Order no. / Distance D mm			PU
	0,0	1,5	4,5	
9,5	9 088 246	9 088 247	9 088 248	50 ea.

Fast assembly concealed hinge

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

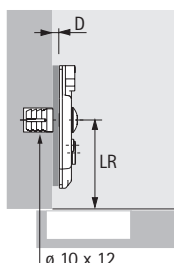
Cross mounting plate for pressing in



- ▶ For $\varnothing 10 \times 12$ mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Eccentric cam height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 090	9 075 091	9 075 092	9 075 093	50 ea.
37	9 071 680	9 071 681	9 071 682	9 071 683	200 ea.

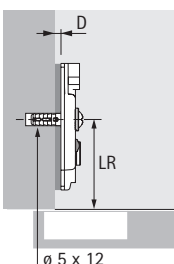
Cross mounting plate with expanding sockets and special screws



- ▶ For $\varnothing 10 \times 12$ mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Eccentric cam height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 075	9 075 076	9 075 077	9 075 078	50 ea.
37	9 071 660	9 071 661	9 071 662	9 071 663	200 ea.

Cross mounting plate with expanding sockets and special screws



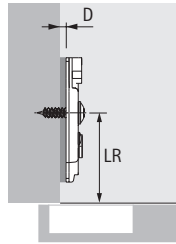
- ▶ For $\varnothing 5 \times 12$ mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Eccentric cam height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 070	9 075 071	9 075 072	9 075 073	50 ea.
37	9 071 655	9 071 656	9 071 657	9 071 658	200 ea.

Fast assembly concealed hinge

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

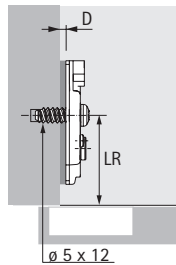
Cross mounting plate with premounted chipboard screws



- ▶ For drillings max. \varnothing 2.5 mm
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Eccentric cam height adjustment \pm 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 085	9 075 086	9 075 087	9 075 088	50 ea.
37	9 071 670	9 071 671	9 071 672	9 071 673	200 ea.

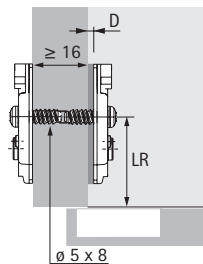
Cross mounting plate with premounted Euro screws



- ▶ For \varnothing 5 x 12 mm holes
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Eccentric cam height adjustment \pm 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 080	9 075 081	9 075 082	9 075 083	50 ea.
37	9 071 665	9 071 666	9 071 667	9 071 668	200 ea.

Cross mounting plate with premounted Euro screws



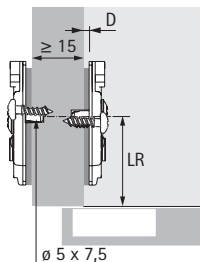
- ▶ For \varnothing 5 x 8 mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 32 mm
- ▶ Half overlay door, from 16 mm side panel thickness
- ▶ Eccentric cam height adjustment \pm 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 060	9 075 061	9 075 062	9 075 063	50 ea.
37	9 071 645	9 071 646	9 071 647	9 071 648	200 ea.

Fast assembly concealed hinge

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

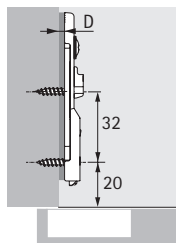
Patented "Hettich Direkt" cross mounting plate with locating pin and special screws



- ▶ 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
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm				PU
	0,0	1,5	3,0	5,0	
37	9 075 065	9 075 066	9 075 067	9 075 068	50 ea.
37	9 071 650	9 071 651	9 071 652	9 071 653	200 ea.

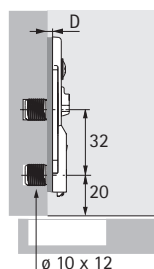
Linear mounting plate for screwing on



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

Hole line distance LR mm	Order no. / Distance D mm			PU
	1,5	3,0	5,0	
20	9 075 095	9 075 096	9 075 097	50 ea.

Linear mounting plate for pressing in



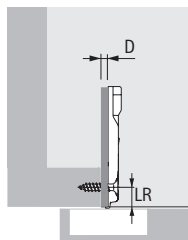
- ▶ For $\varnothing 10 \times 12$ mm drillings
- ▶ Quality classification under EN 15570, Level 3
- ▶ Eccentric cam height adjustment ± 2 mm
- ▶ Steel, nickel plated

Hole line distance LR mm	Order no. / Distance D mm			PU
	1,5	3,0	5,0	
20	9 075 098	9 075 099	9 075 100	50 ea.

Fast assembly concealed hinge

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

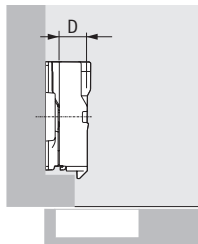
Face frame mounting plate for screwing on



- ▶ For flat head screws $\varnothing 4 \times 20$ mm
- ▶ Quality classification under EN 15570, Level 3
- ▶ Hole spacing 40 mm
- ▶ Eccentric cam height adjustment ± 2 mm
- ▶ Zinc die-cast nickel plated

Hole line distance LR mm	Order no. / Distance D mm		PU
	0,0	4,5	
9,5	9 090 882	9 090 884	50 ea.

Parallel adapter for cross mounting plates

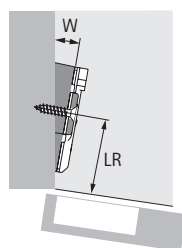


- ▶ For increasing the mounting plate distance by max. 22 mm
- ▶ Including fixing screw
- ▶ A trial mounting is recommended
- ▶ Zinc die-cast nickel plated

Distance D mm	Order no.	PU
8,0	9 072 537	50 ea.
12,0	9 072 538	50 ea.
22,0	9 072 539	50 ea.

Can only be used with cross mounting plates System 9000 with oblong hole height adjustment, see Intermat catalogue

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
- ▶ Zinc die-cast nickel plated

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; Screw length is determined by specific configuration

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

Type	Order no.	PU
Neutral	9 088 249	50 ea.
Embossed with Hettich logo	9 088 250	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
- ▶ Plastic, anthracite

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

- ▶ Accessories
- ▶ For Sensys

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 pre-mounted wood screw
- ▶ Steel, nickel plated

Type	Dimension X mm	Order no.	PU
for TH / TS	68,2	9 088 251	50 ea.
for TB	61,4	9 088 252	50 ea.

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

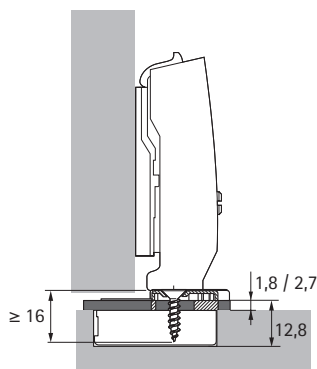
Door mounting option	Order no.	PU
full overlay	9 100 037	50 ea.
half overlay	9 100 116	50 ea.

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 carcass and door increases by the thickness of the adapter
- ▶ Attachment by $\varnothing 4 \times 16$ mm countersunk screws
- ▶ Plastic, transparent

Type	Thickness mm	Order no.	PU
for TH 52, TS cup	1,8	9 073 595	50 ea.
for TH 52, TS cup	2,7	9 073 596	50 ea.
for TB cup	1,8	9 073 597	50 ea.
for TB cup	2,7	9 073 598	50 ea.



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
- ▶ For installation notes, see Technical information

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 8638i



- ▶ 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°	9 072 542	50 ea.

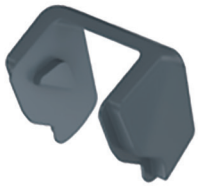
Opening angle limiter for Sensys 8657i



- ▶ 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
- ▶ For installation notes, see Technical information

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
- ▶ For installation notes, see Technical information

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

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
- ▶ For installation notes, see Technical information

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

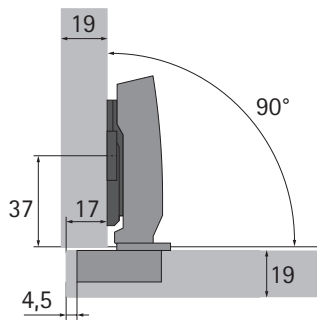
Aid for installing opening angle limiter



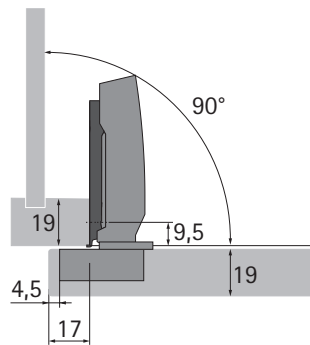
- ▶ Can be used with the following opening angle limiters
 - Order no. 9 072 540 for Sensys 8645i / 8645 / 8675
 - Order no. 9 072 541 for Sensys 8639i W / 8639 W / 8669 W

Order no.	PU
9 081 657	100 ea.

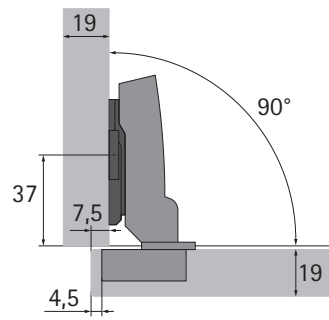
Example applications



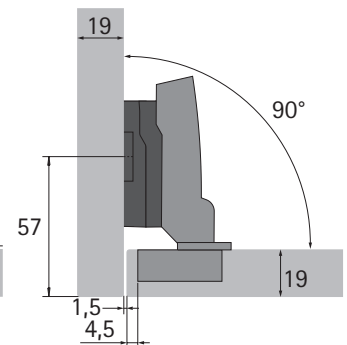
Sensys 8645i B12,5
For inset front panel
Mounting plate distance = 0 mm



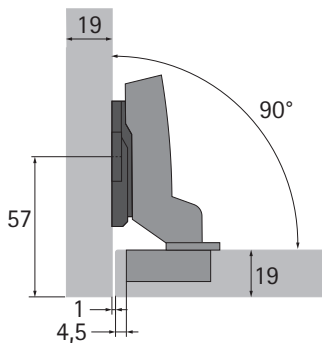
Sensys 8645i B12,5
For inset front panel
Face-frame mounting plate
Distance = 0 mm



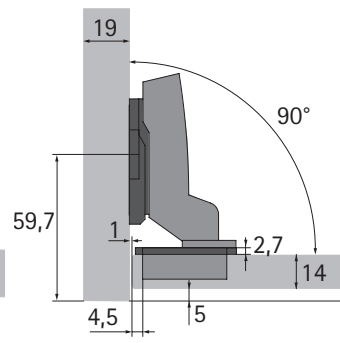
Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm



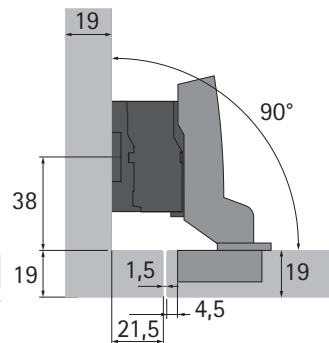
Sensys 8645i B3
For half overlay front panel
System 9000 mounting plate
Distance = 1,5 mm
Parallel adapter distance = 8 mm



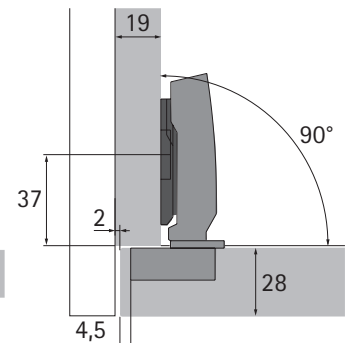
Sensys 8645i B-4
For inset front panel
Mounting plate distance = 1,5 mm



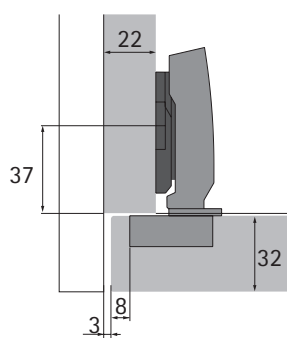
Sensys 8645i B-4
For inset front panel
Mounting plate distance = 1,5 mm
Cup adapter 2,7 mm



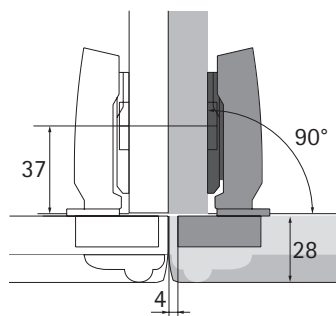
Sensys 8645i B-4
For inset front panel
System 9000 mounting plate
Distance = 1,5 mm
Parallel adapter distance = 22 mm



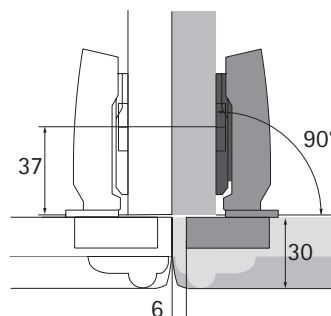
Sensys 8631i B12,5
For narrow gaps between thick doors
For inset front panel
Mounting plate distance = 0 mm



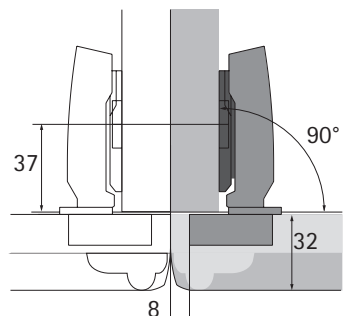
Sensys 8631i B12,5
For narrow gaps between thick doors
For inset front panel
Mounting plate distance = 1,5 mm



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



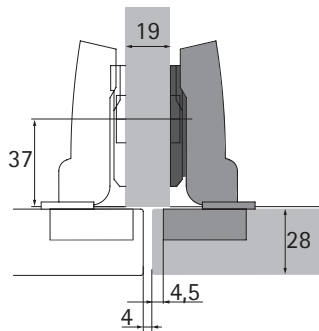
Sensys 8631i B12,5
Thick door with minimum
reveal application
For inset front panel
Mounting plate distance = 0 mm



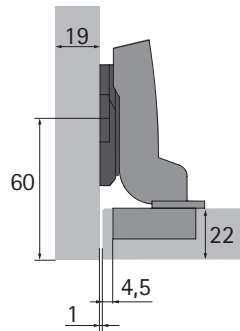
Sensys 8631i B12,5
Thick door with minimum
reveal application
For inset front panel
Mounting plate distance = 0 mm

- ▶ Example applications
- ▶ For Sensys

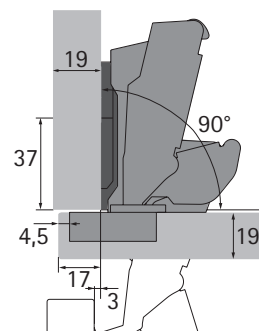
Example applications



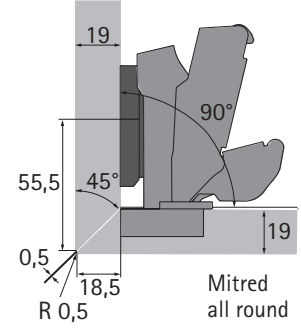
Sensys 8631i B3
For narrow gaps between thick doors
For half overlay front panel
Mounting plate distance = 0 mm



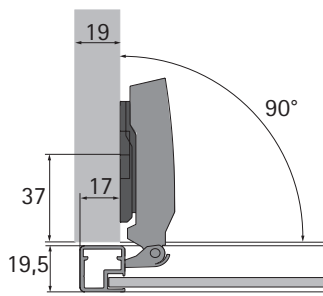
Sensys 8631i B-4
Thick door hinge
For inset front panel
Mounting plate distance = 1,5 mm



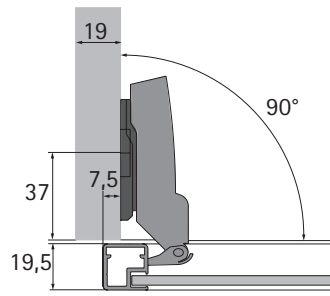
Sensys 8657i B12,5
Zero protrusion hinge
For overlay front panel
Mounting plate distance = 0 mm



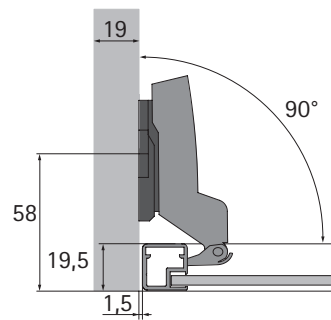
Sensys 8657i B3
Zero protrusion hinge
For half overlay front panel
Mounting plate distance = 3 mm



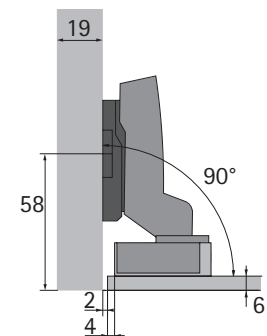
Sensys 8638i B12,5
Aluminium frame hinge
For overlay front panel
Mounting plate distance = 0 mm



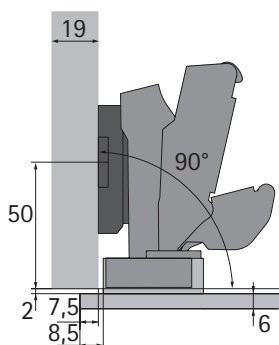
Sensys 8638i B3
Aluminium frame hinge
For half overlay front panel
Mounting plate distance = 0 mm



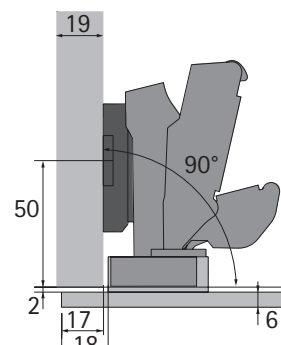
Sensys 8638i B-4
Aluminium frame hinge
For inset front panel
Mounting plate distance = 1,5 mm



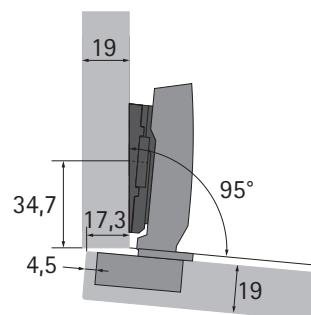
Sensys 8645i B-4
With adapter for glue mounting
For inset front panel
Mounting plate distance = 3 mm



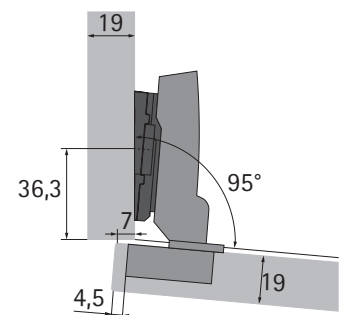
Sensys 8657i B3
With adapter for glue mounting
For half overlay front panel
Mounting plate distance = 5 mm
Opening angle limiter 120°



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

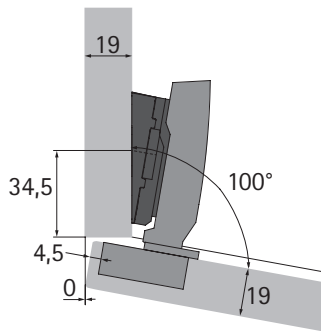


Sensys 8645i B12,5
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°

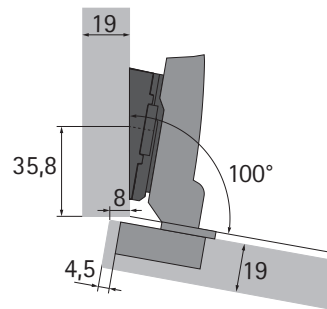


Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°

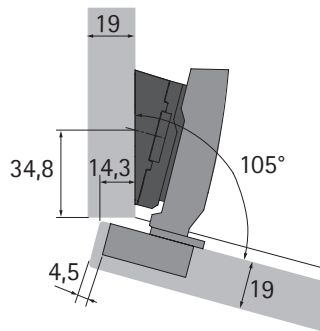
Example applications



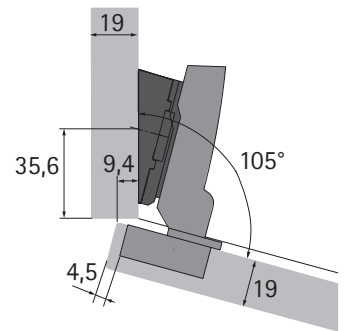
Sensys 8645i B12,5
For overlay front panel
Mounting plate distance = 1,5 mm
Angle adapter 10°



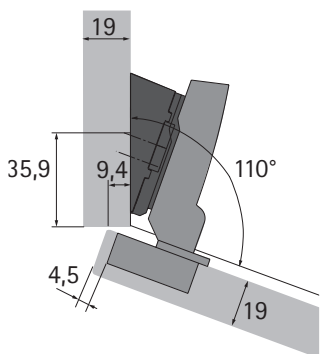
Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 10°



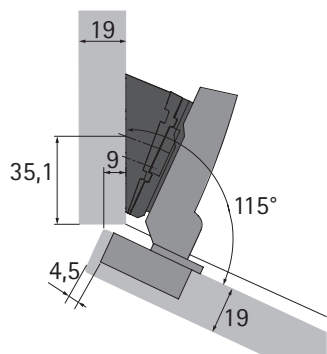
Sensys 8645i B12,5
For overlay front panel
Mounting plate distance = 3 mm
Angle adapter 15°



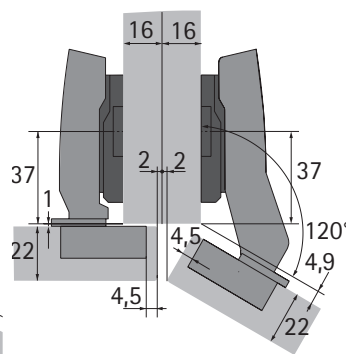
Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 15°



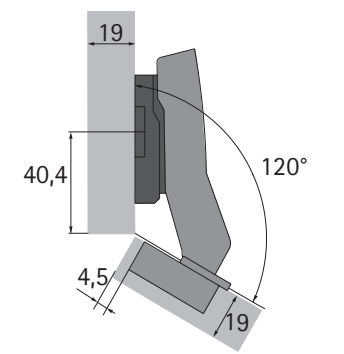
Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 20°



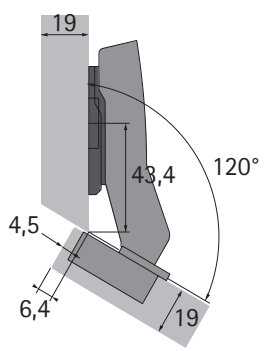
Sensys 8645i B3
For half overlay front panel
Mounting plate distance = 0 mm
Angle adapter 20° and 5°



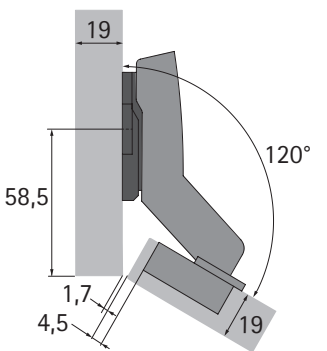
Sensys 8639i W30 B2
Sensys 8645i B12,5
For overlay front panel
Mounting plate distance = 3 mm



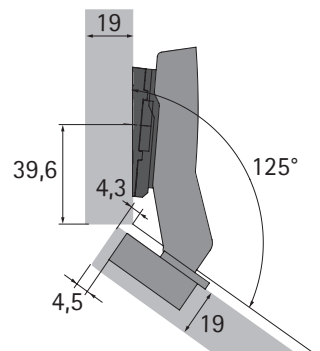
Sensys 8639i W30 B2
For overlay front panel
Mounting plate distance = 5 mm



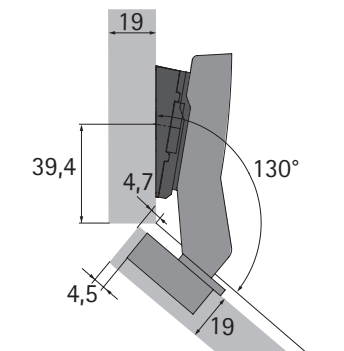
Sensys 8639i W30 B2
For overlay front panel
Mounting plate distance = 0 mm



Sensys 8639i W30 B-16
For inset front panel
Mounting plate distance = 1,5 mm



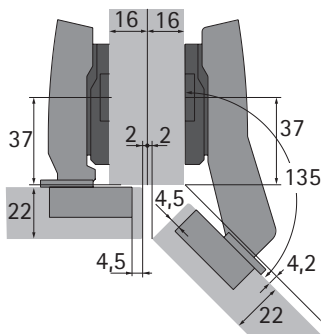
Sensys 8639i W30 B2
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°



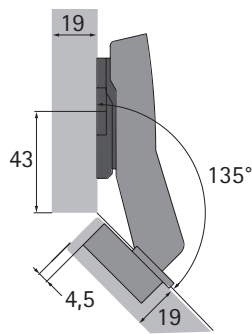
Sensys 8639i W30 B2
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 10°

- ▶ Example applications
- ▶ For Sensys

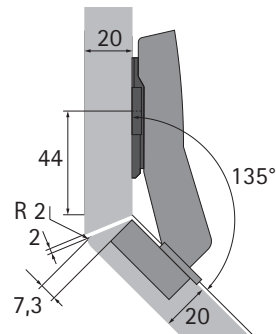
Example applications



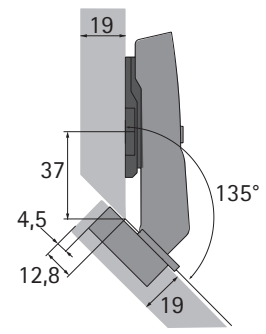
Sensys 8639i W45 B-2
Sensys 8645i B12,5
For overlay front panel
Mounting plate distance = 3 mm



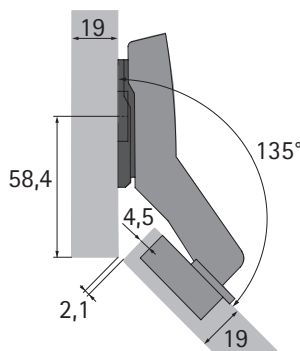
Sensys 8639i W45 B-2
For overlay front panel
Mounting plate distance = 1,5 mm



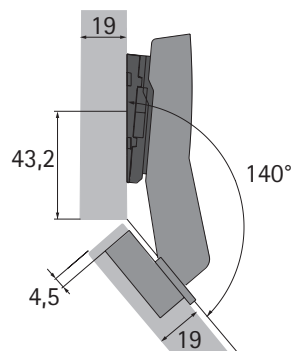
Sensys 8639i W45 B-2
For overlay front panel
Mounting plate distance = 0 mm



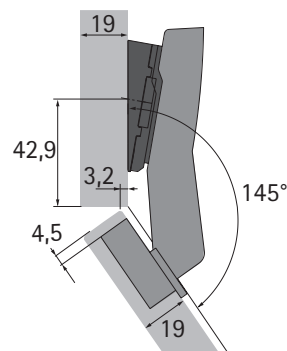
Sensys 8639i W45 B9
For overlay front panel
Mounting plate distance = 0 mm



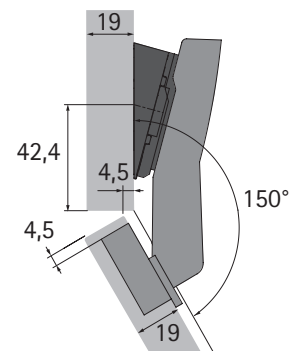
Sensys 8639i W45 B-25
For inset front panel
Mounting plate distance = 0 mm



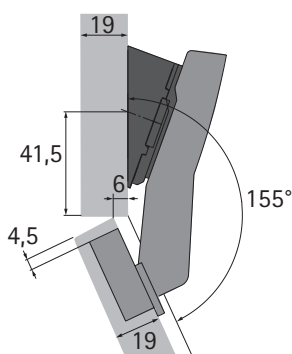
Sensys 8639i W45 B-2
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 5°



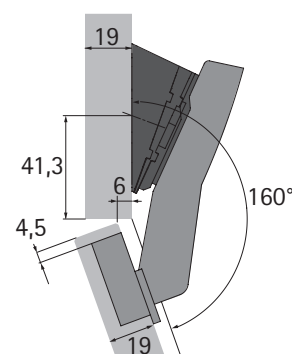
Sensys 8639i W45 B-2
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 10°



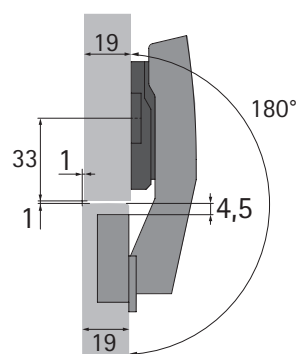
Sensys 8639i W45 B-2
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 15°



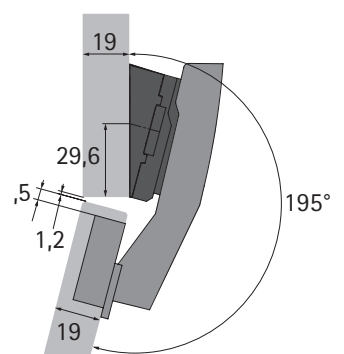
Sensys 8639i W45 B-2
For overlay front panel
Mounting plate distance = 0 mm
Angle adapter 20°



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

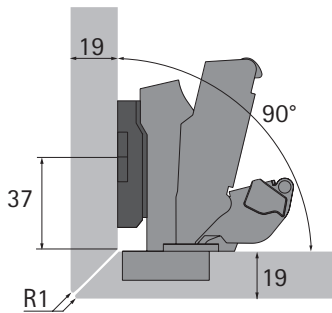


Sensys 8639i W90 B4
For inset front panel
Mounting plate distance = 3 mm

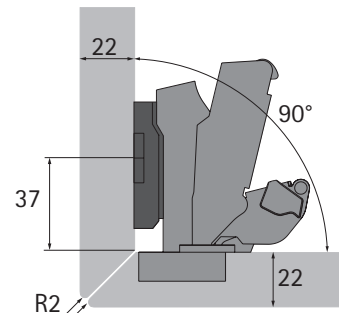
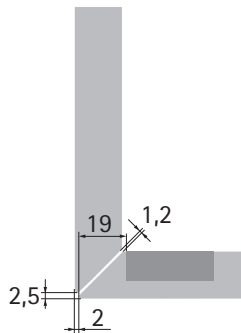


Sensys 8639i W90 B4
For inset front panel
Mounting plate distance = 3 mm
Angle adapter 15°

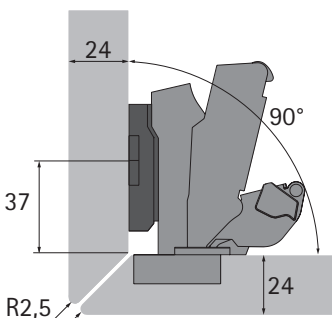
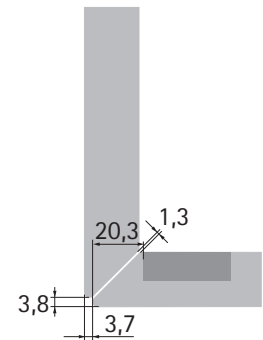
45° mitred all round



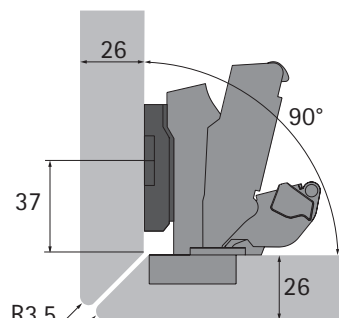
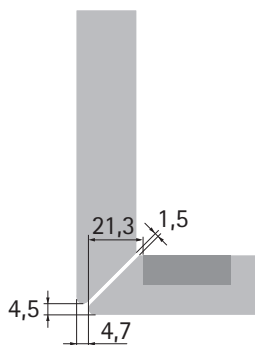
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



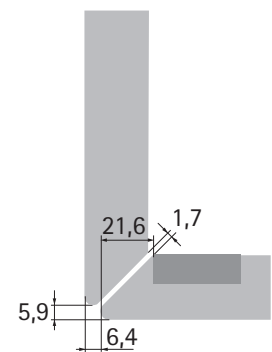
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



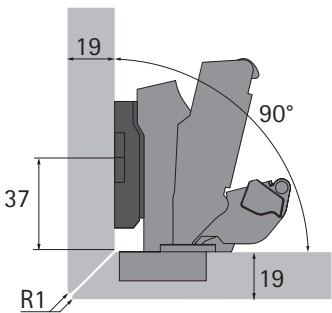
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



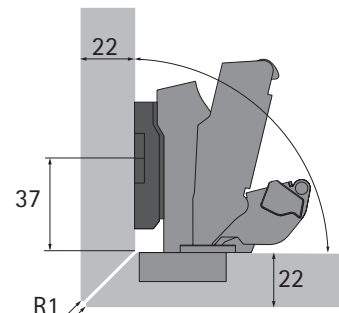
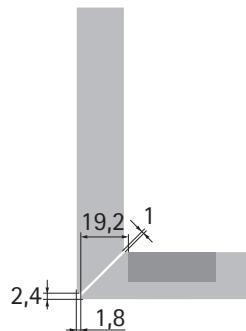
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



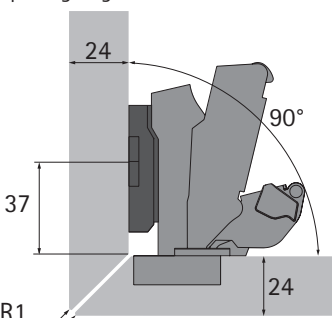
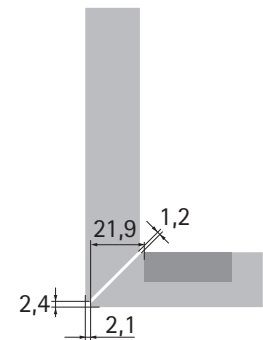
Side mitring



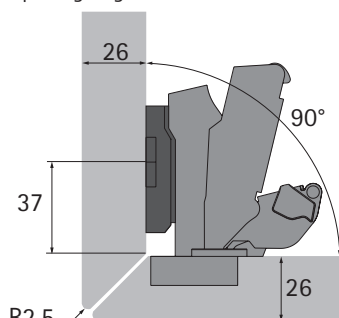
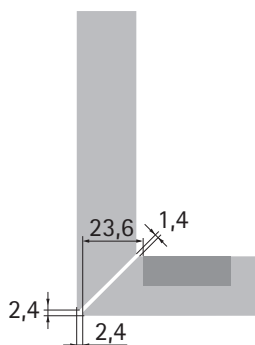
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



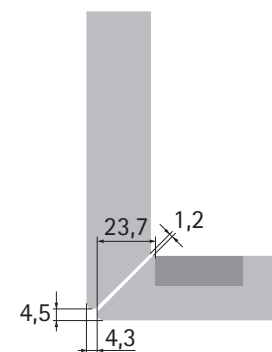
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



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

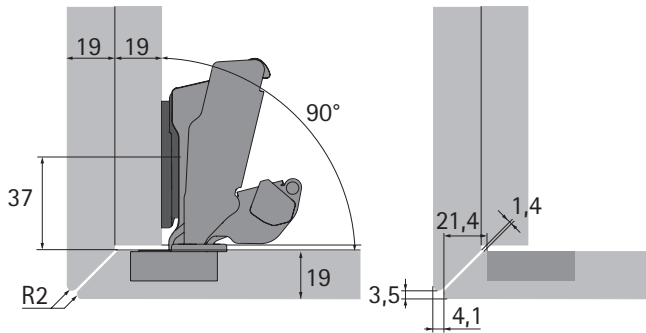


Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°

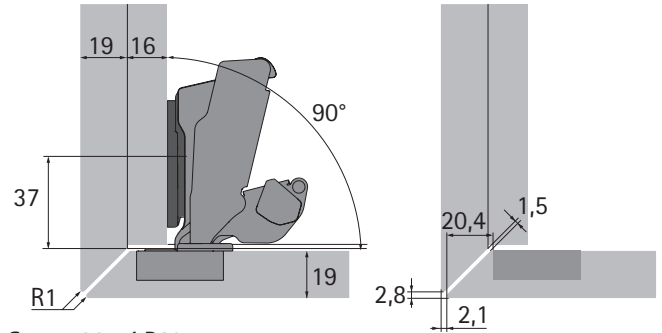


- ▶ Example applications
- ▶ For Sensys

Mitred all round with internal facing panel

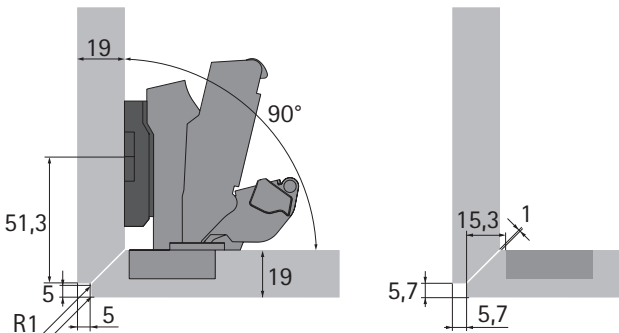


Sensys 8657i B12,5
Mounting plate: 8099 LR37 D0
Opening angle limiter: 120°
Side panel thickness additional panel: 19 mm

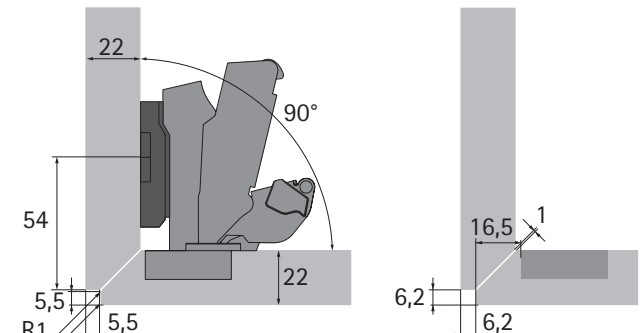


Sensys 8657i B12,5
Mounting plate: 8099 LR37 D0
Opening angle limiter: 135°
Side panel thickness additional panel: 19 mm

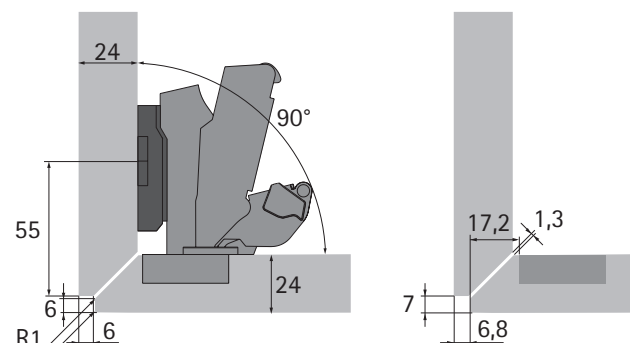
Mitred all round with cut out rebate



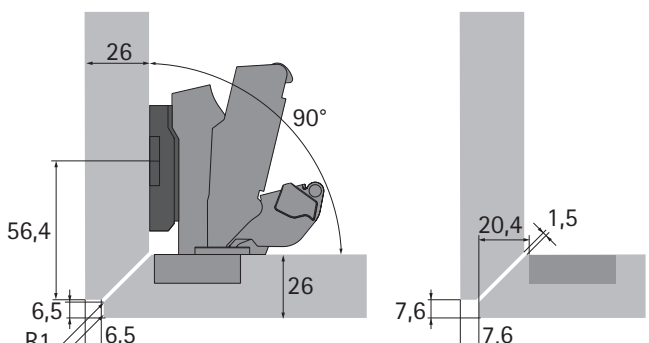
Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°



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

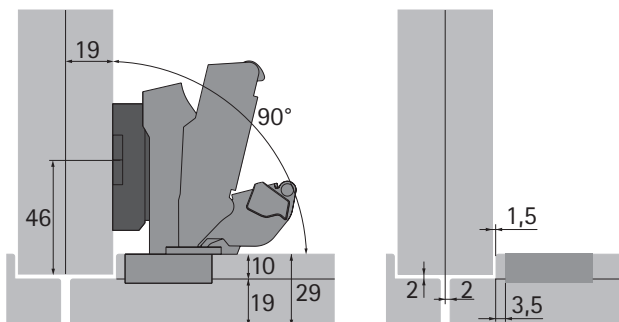


Sensys 8657i B3
Mounting plate: 8099 LR37 D3
Opening angle limiter: 135°

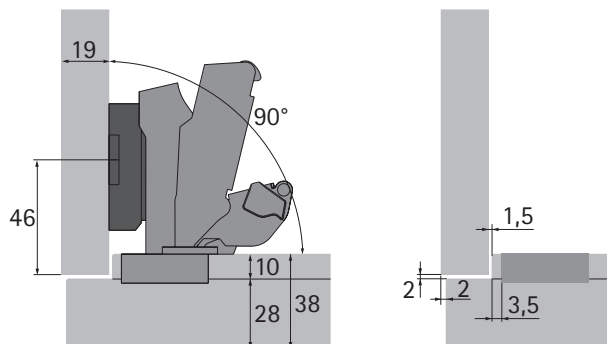


Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°

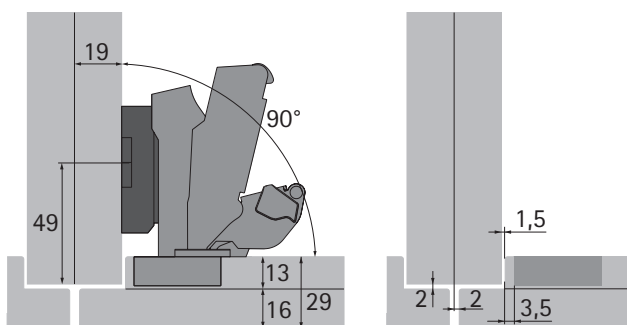
Rebate applications



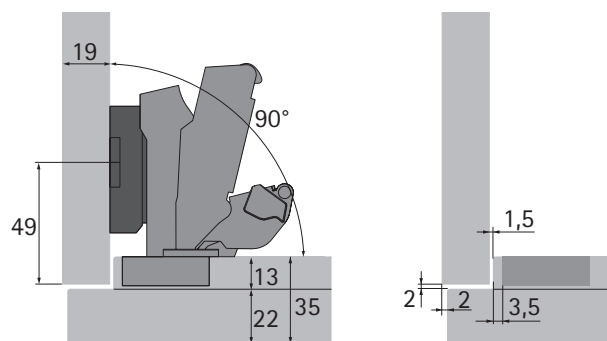
Sensys 8657i B3
Mounting plate: 9000 LR 37 D0
Parallel adapter: D8
Opening angle limiter: 135°
Side panel thickness: 19 mm



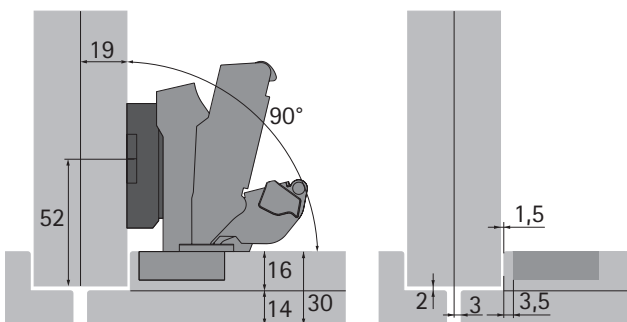
Sensys 8657i B3
Mounting plate: 9000 LR 37 D0
Parallel adapter: D8
Opening angle limiter: 135°
Side panel thickness: 19 mm



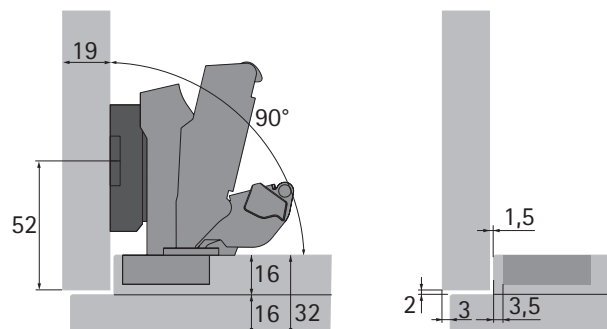
Sensys 8657i B3
Mounting plate: 9000 LR 37 D0
Parallel adapter: D8
Opening angle limiter: 135°
Side panel thickness: 19 mm



Sensys 8657i B3
Mounting plate: 9000 LR 37 D0
Parallel adapter: D8
Opening angle limiter: 135°
Side panel thickness: 19 mm



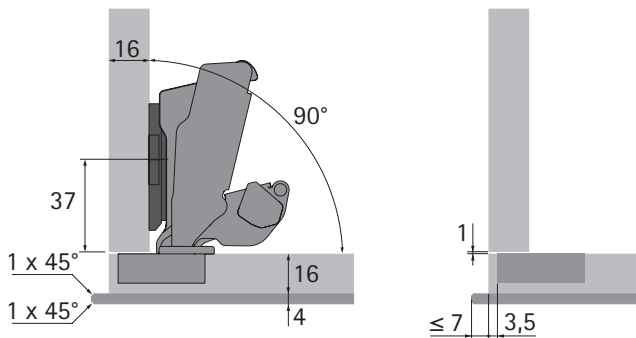
Sensys 8657i B3
Mounting plate: 9000 LR 37 D0
Parallel adapter: D8
Opening angle limiter: 135°
Side panel thickness: 19 mm



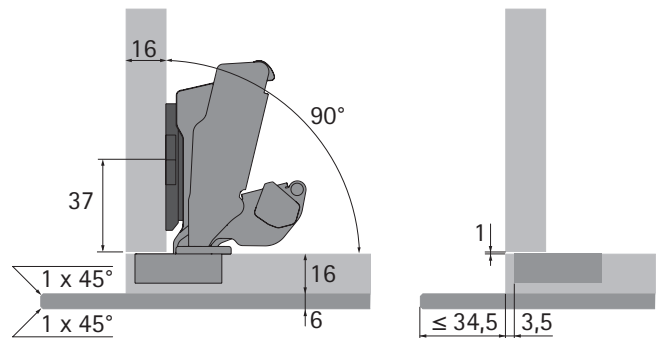
Sensys 8657i B3
Mounting plate: 9000 LR 37 D0
Parallel adapter: D8
Opening angle limiter: 135°
Side panel thickness: 19 mm

- ▶ Example applications
- ▶ For Sensys

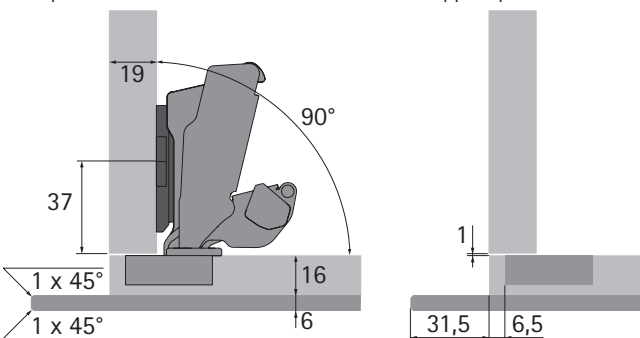
Projecting thin materials



Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0, opening angle limiter: no
 Side panel thickness: 16 mm, door thickness, support panel: 16 mm

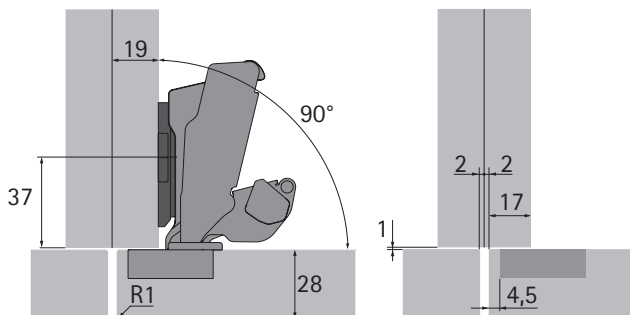


Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0, opening angle limiter: 120°
 Side panel thickness: 16 mm, door thickness, support panel: 16 mm

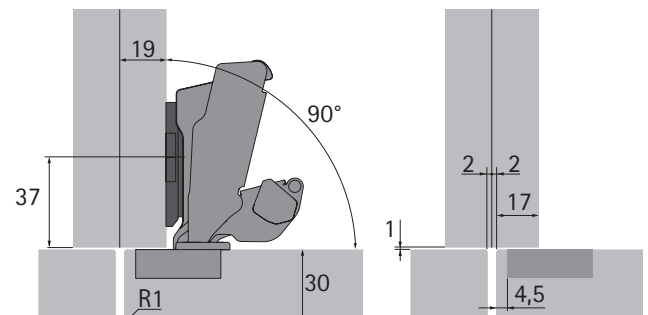


Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0, opening angle limiter: 120°
 Side panel thickness: 19 mm, door thickness, support panel: 16 mm

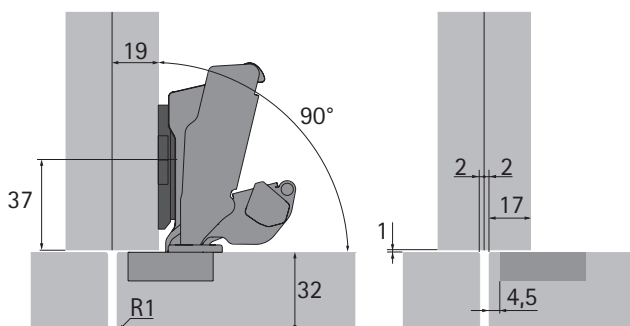
Thick doors



Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0
 Opening angle limiter: no

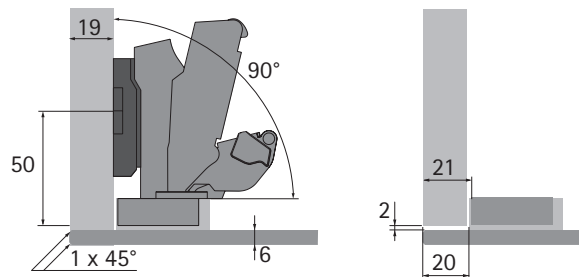


Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0
 Opening angle limiter: 120°



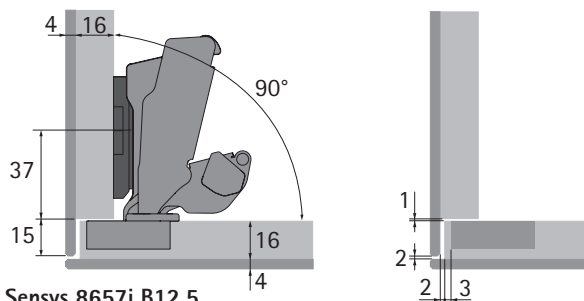
Sensys 8657i B12,5
 Mounting plate: 8099 LR37 D0
 Opening angle limiter: 105°

Glass doors

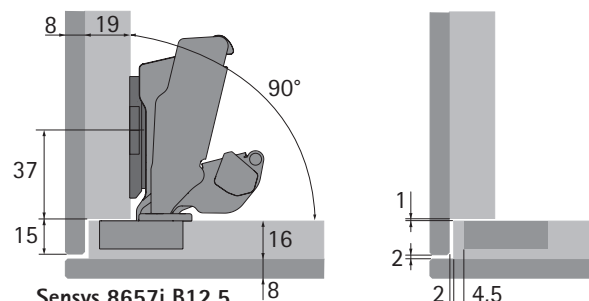


Sensys 8657i B3
Mounting plate: 8099 LR37 D5
Opening angle limiter: 135°
Adapter: yes

Lined materials

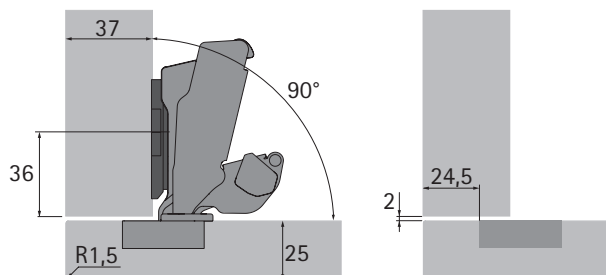


Sensys 8657i B12,5
Mounting plate: 8099 LR37 D1,5
Opening angle limiter: no
Side panel thickness: 16 mm



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

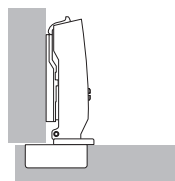
Maximum door reveal



Sensys 8657i B12,5
Mounting plate: 8099 LR37 D0
Opening angle limiter: 105°
Side panel thickness: 37 mm

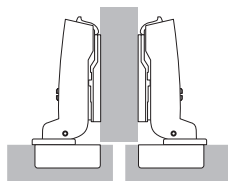
- ▶ Sensys
- ▶ Fitting information

Full overlay door



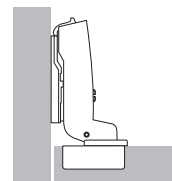
The door is in front of the carcass side and only a small gap remains at the side within which the door can open reliably. Alternatively, the door can also be overlaid fully. In this case sufficient space must be allowed at the side for the required minimum reveal. Straight hinges are used.

Half overlay door



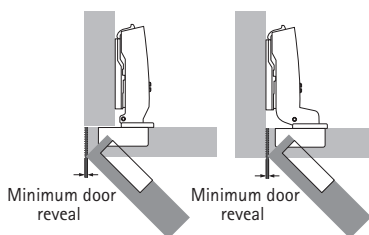
This is where two doors are positioned in front of a cabinet centre panel, with the required overall reveal between them (at least 2 x minimum reveal). In other words, each door has a smaller overlay and cranked hinges are therefore used.

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.

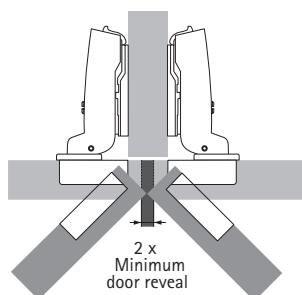
Minimum reveal



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 clearance. The minimum reveal is shown in the table for the respective hinge types.

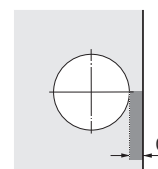
Minimum reveal



For half overlay doors

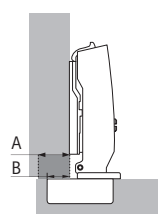
The total reveal selected between the doors must be at least twice the door clearance. Both doors can then be opened at the same time.

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 will be, i.e. the minimum reveal required.

Overlay / Base



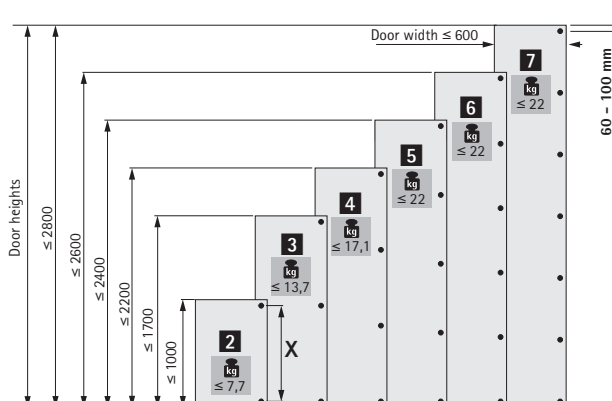
A = Overlay
B = Base

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 distance of 0 mm.

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. The space X must be at least 280 mm.



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 increasing cup distance C or by producing radii on the door edges.

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.

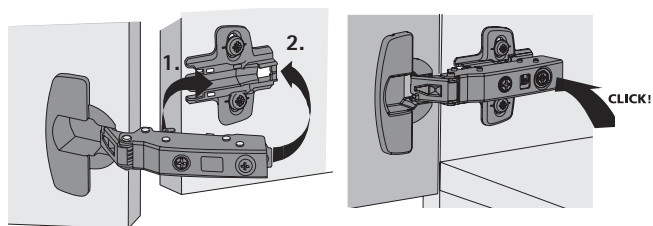
Example: Working out distances using the calculation formula

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

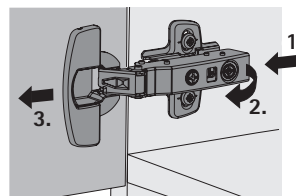
Intermediate distances not available as mounting plate distances are achieved by adjusting the overlay adjustment of the hinge.

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

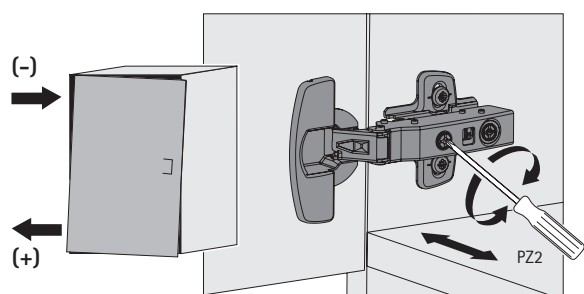
Installation



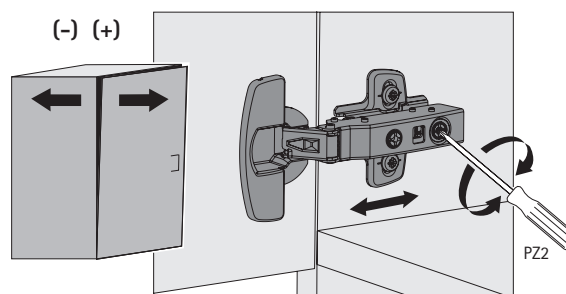
Removal



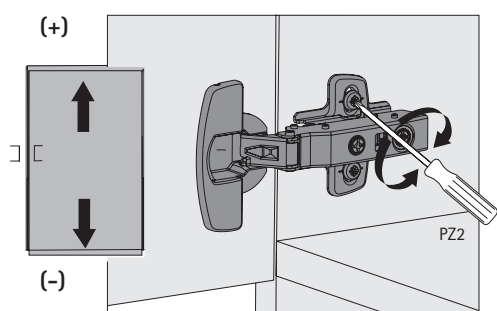
Overlay adjustment



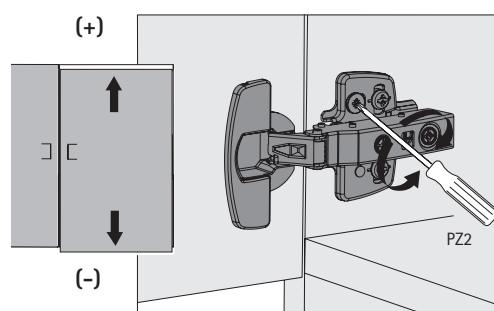
Depth adjustment



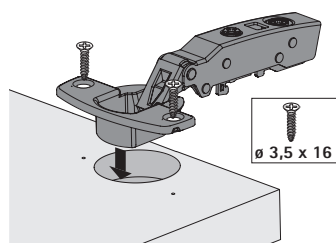
Oblong hole height adjustment



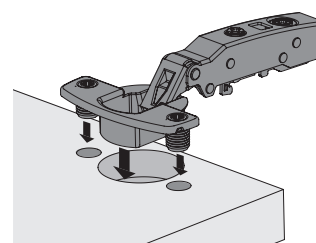
Eccentric cam height adjustment

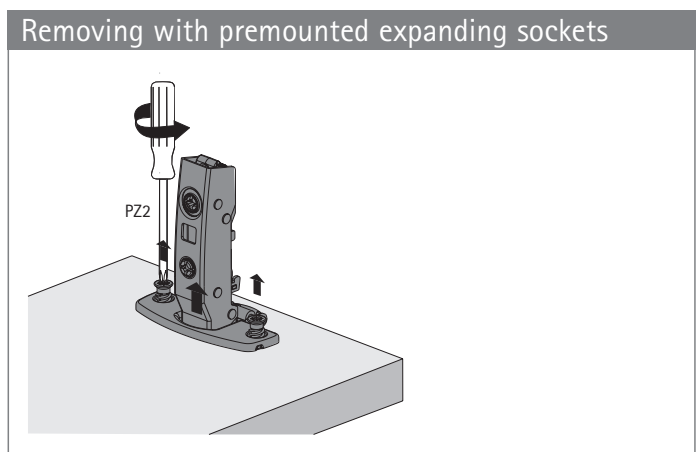
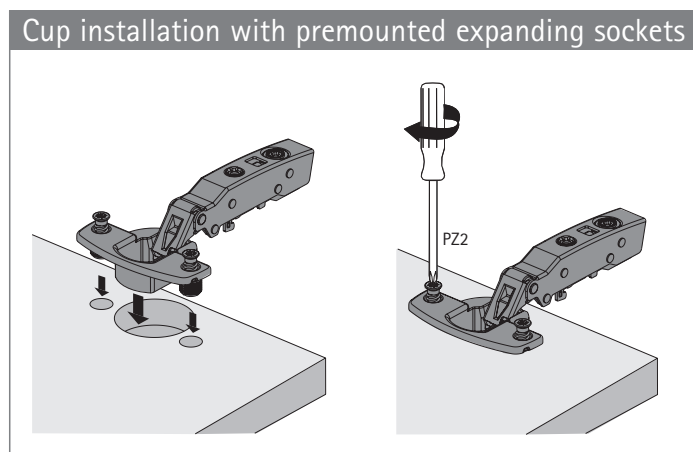
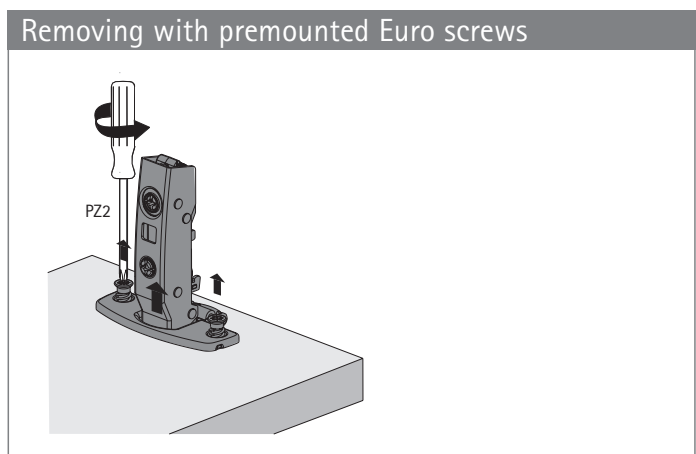
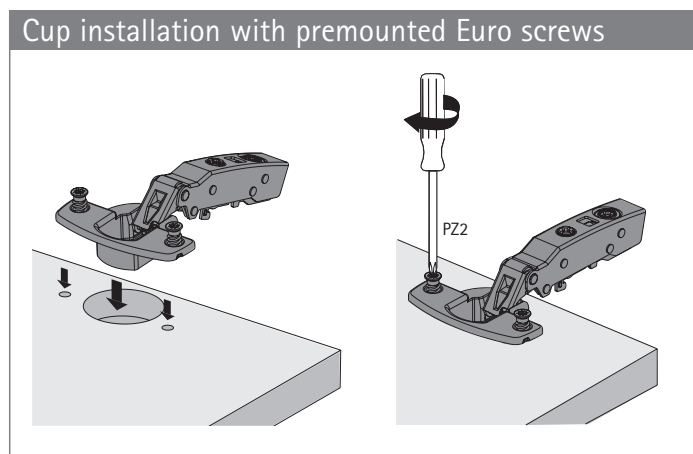
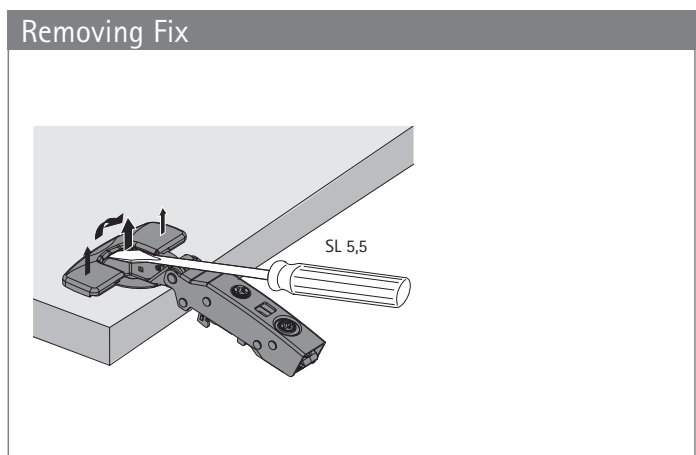
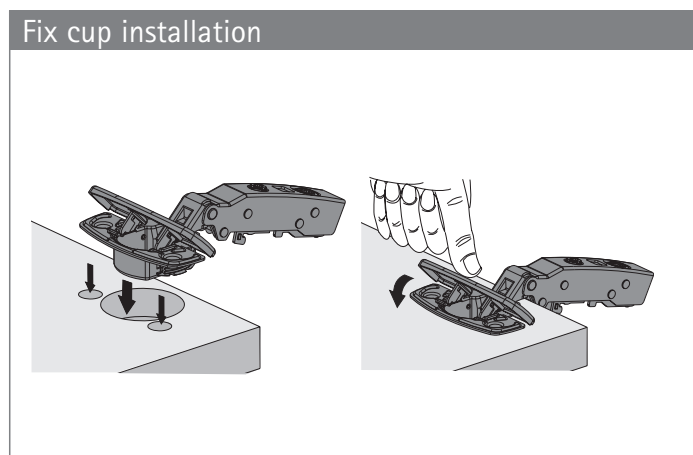
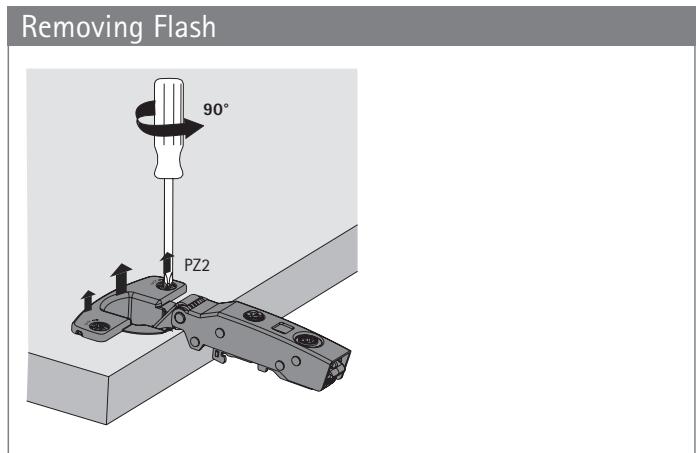
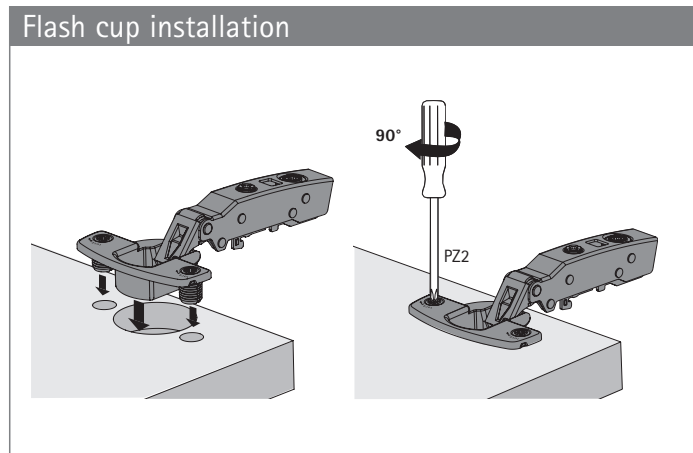


Cup installation for screwing on

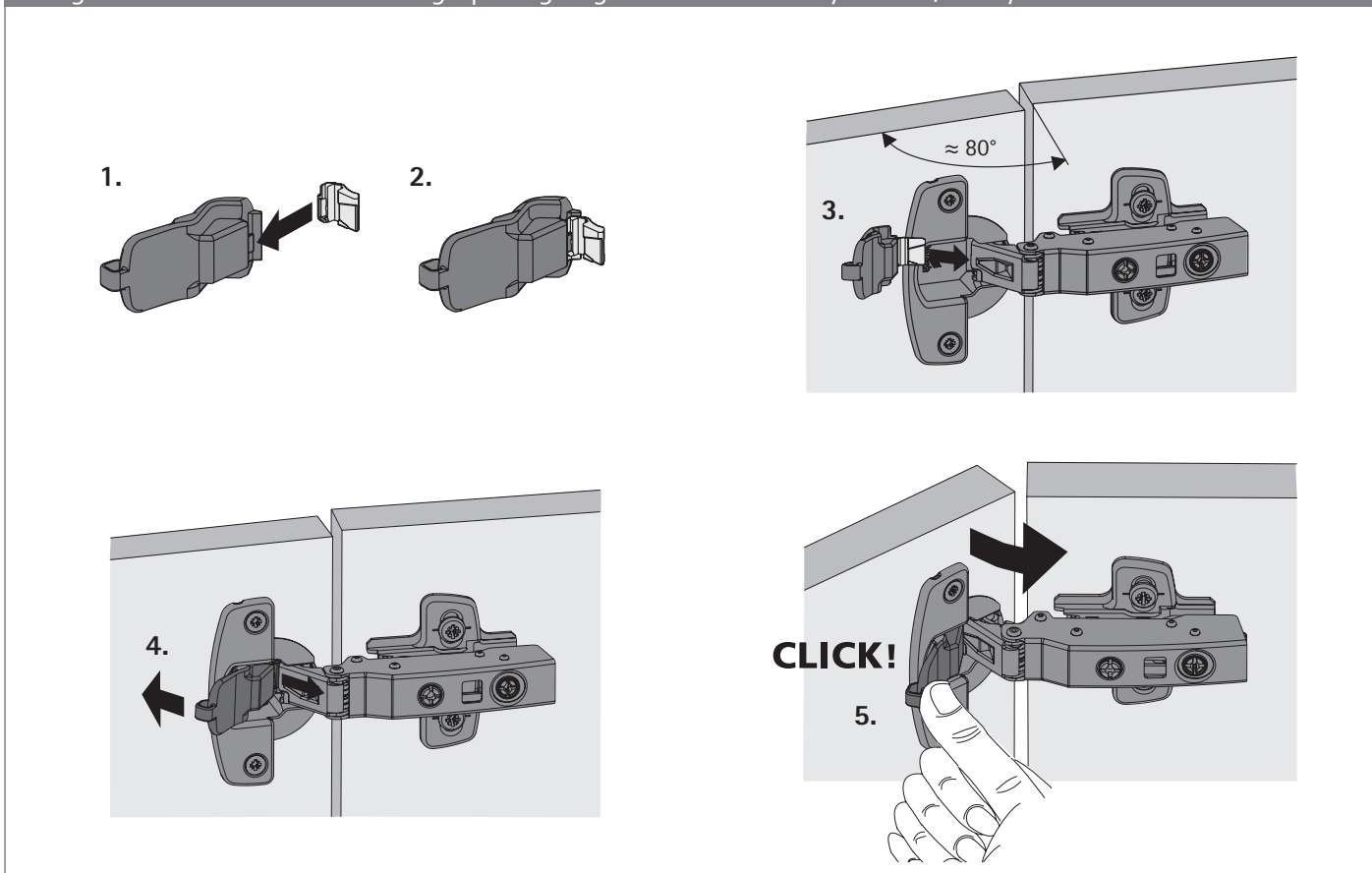


Cup installation for pressing in

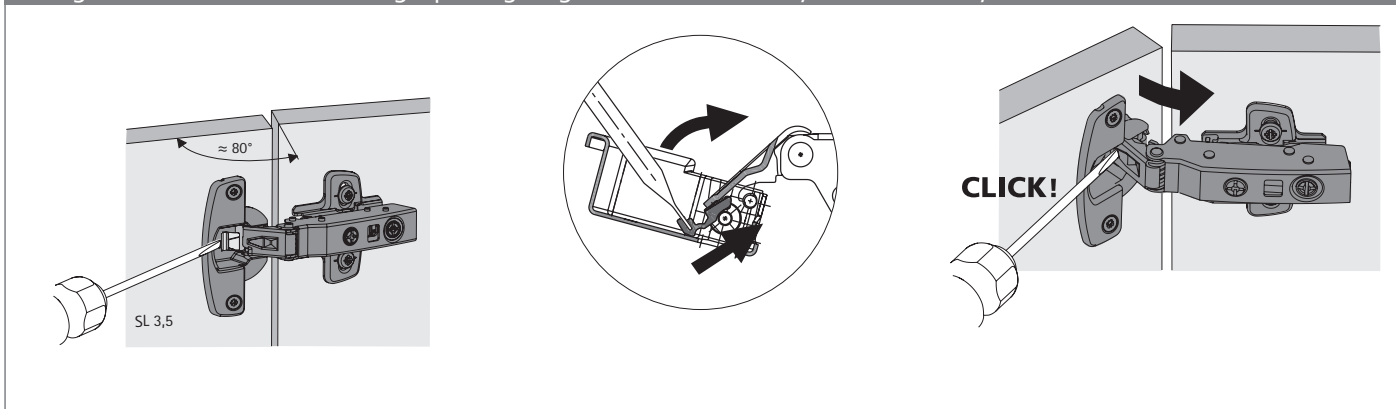




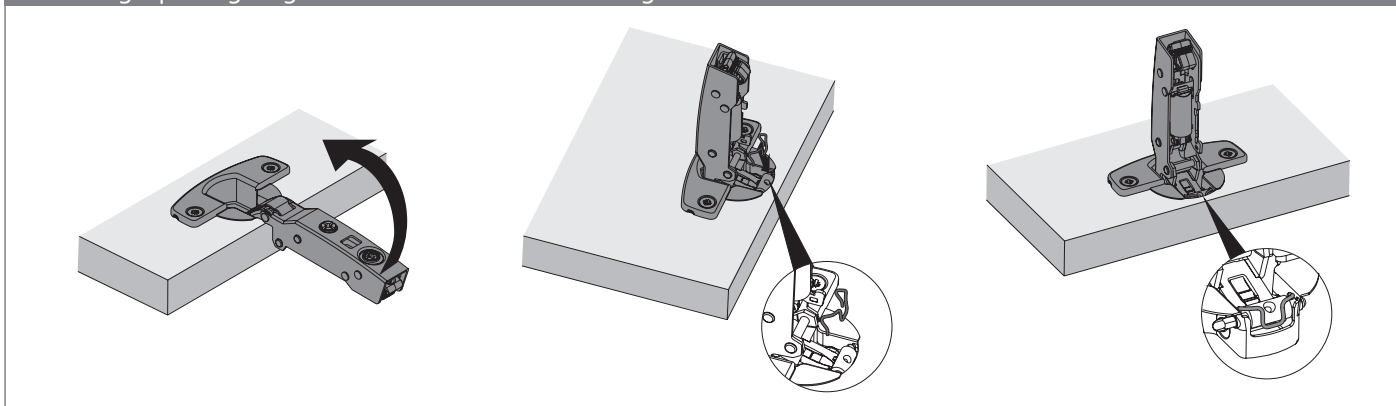
Using installation aid for installing opening angle limiter for Sensys 8645i, Sensys 8639i W



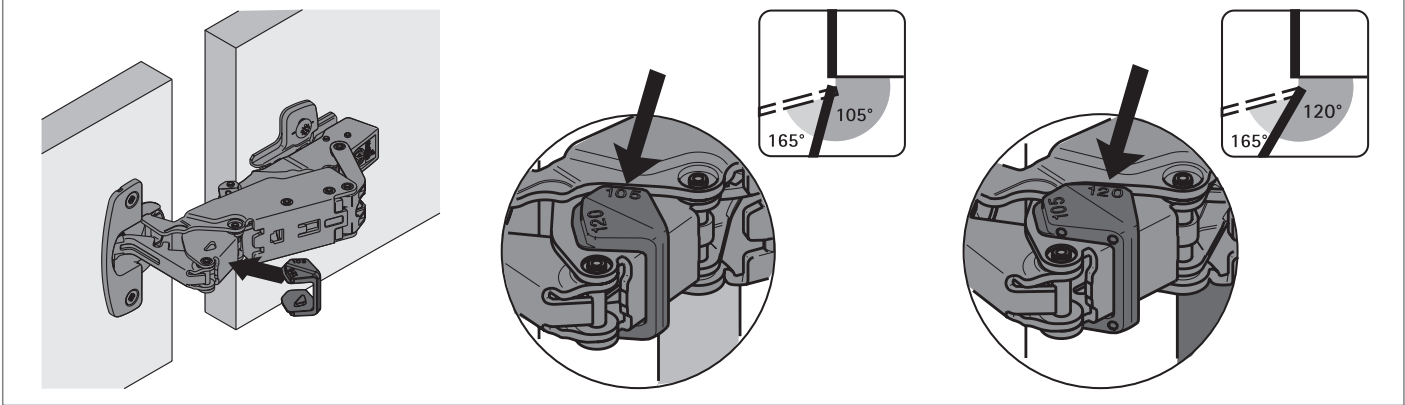
Using screwdriver for installing opening angle limiter for Sensys 8645i, Sensys 8639i W



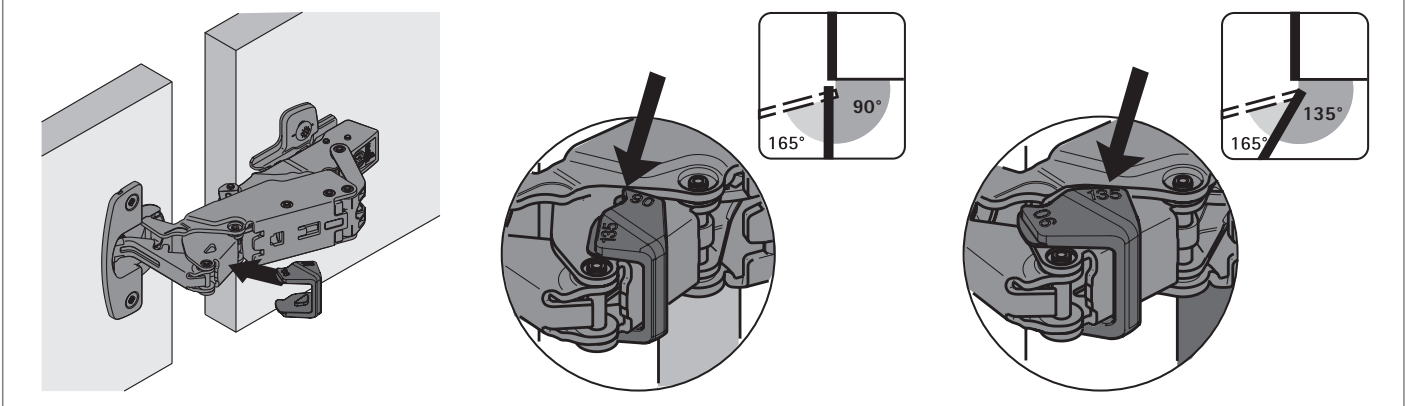
Installing opening angle limiter for thick door hinge 8631i



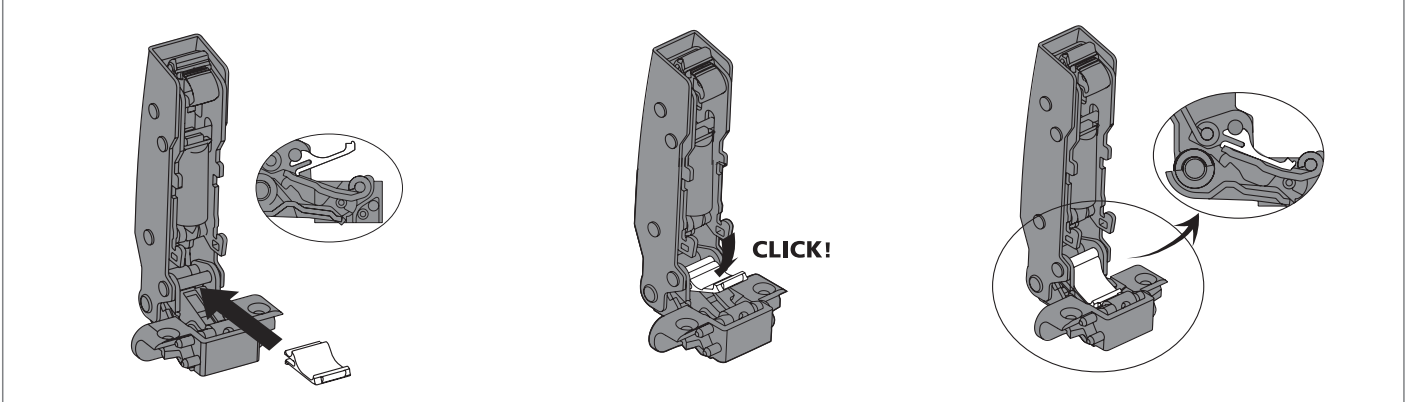
Installing the opening angle limiter for 8657i zero protrusion hinge



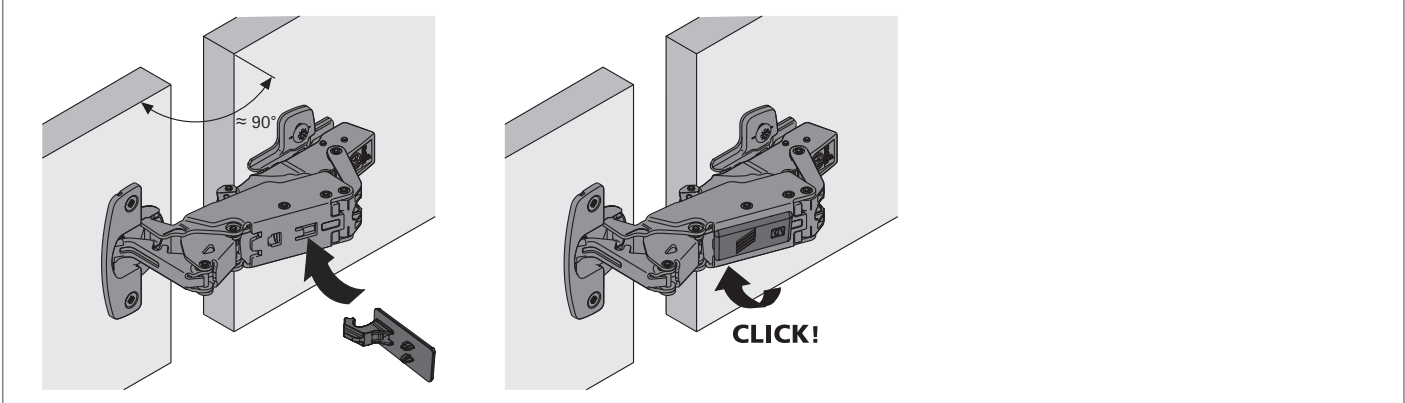
Installing the opening angle limiter for 8657i zero protrusion hinge



Installing opening angle limiter for Sensys 8638i aluminium framed doors



Installing soft opening



Quality 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

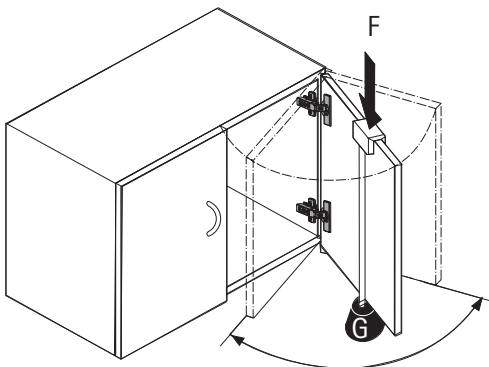
Hettich hinges satisfy the corrosion requirements under EN ISO 9227-2012 in accordance with the 48 h neutral salt spray test (NSS) as well as DIN EN ISO 6270-2-2012 in accordance with the 96 h alternating condensation water climate test with alternating air humidity and temperature (AHT).

Quality assurance

The processes for assuring the quality of Hettich hinges are certified under EN ISO 9001, Cert. No. DE8000209.

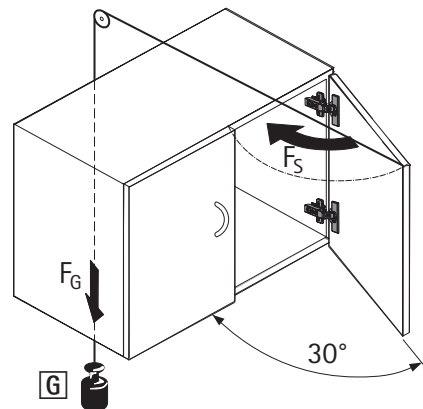
Endurance test

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



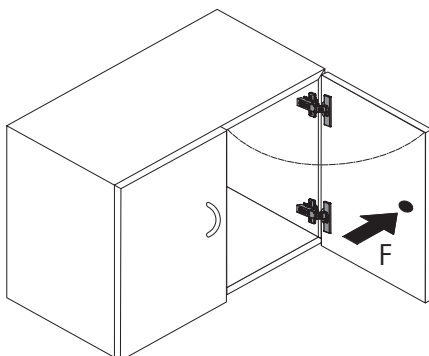
Closing test

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 $< 135^\circ$.)



Vertical test

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

