



The designer hinge with Silent System perfection:
Sensys

Technik für Möbel

Hettich

Benefits at a glance: Sensys



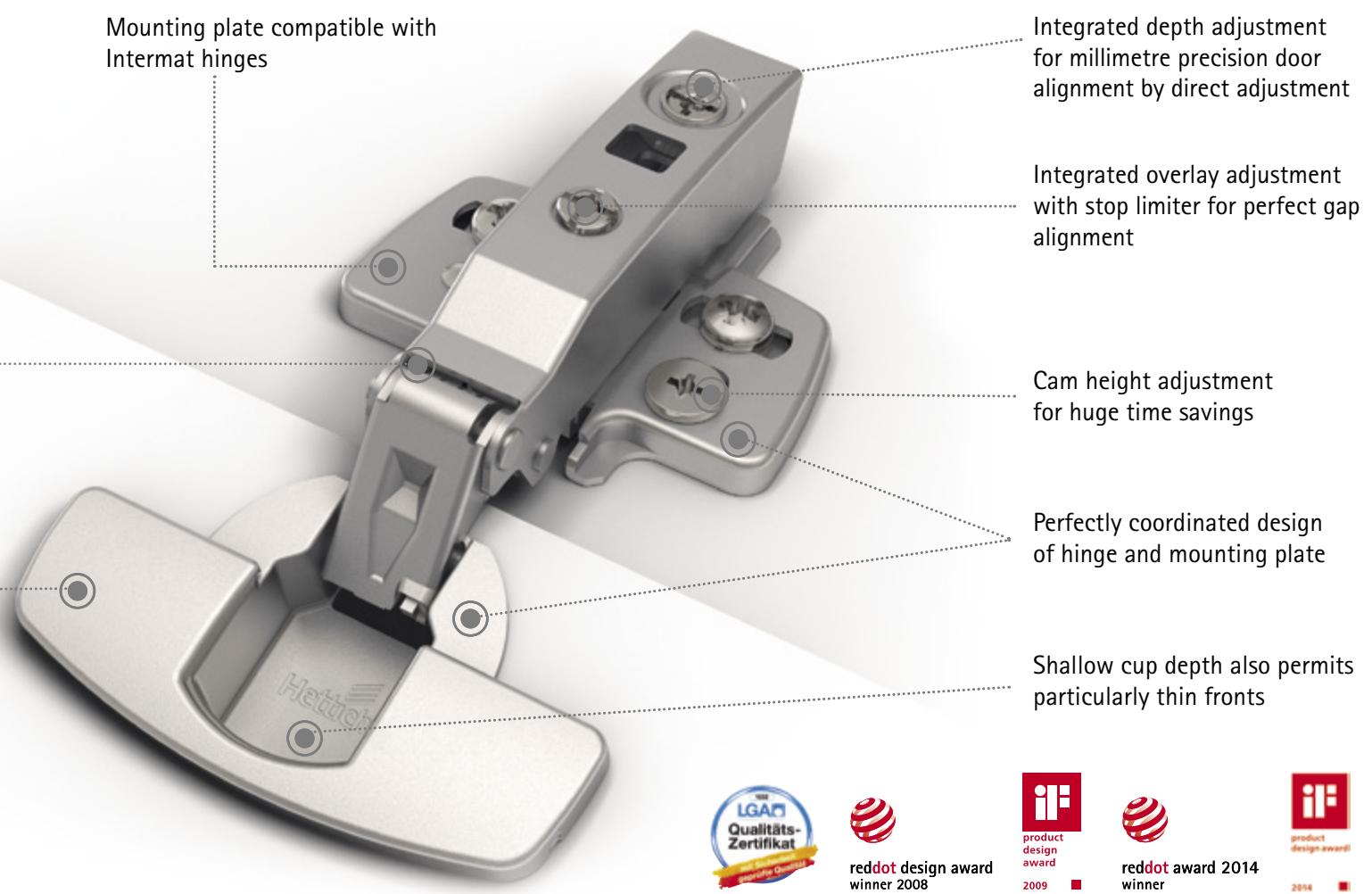
High quality Silent System
invisibly integrated in the
hinge arm

Elegant cover cap for the
hinge cup, also available for
the hinge arm



**Sensys makes your
furniture safer.**

The fast release button is
elegantly concealed by the
hinge arm. This reliably
prevents the door from being
released unintentionally.



reddot design award
winner 2008



0 protrusion hinge for optimum use of storage space

Plan internal pot-and-pan drawers in maximum width and without spacers. The Sensys 0 protrusion hinge opens the door so wide that it does not get in the way of the internal pot-and-pan drawer.

Narrow gaps between thick doors? Not a problem!

The Sensys thick door hinge confidently moves even heavy doors in a way that's noticeably felt. As a capable performer, it gives you creative design flexibility – for furniture design to tick all the boxes with your clients.

Time saving assembly

Tool-less clip on assembly means hinge and mounting plate can be put together in almost record breaking time. Direct adjustment of gap alignment also saves a lot of time. Fast assembly options for the cup additionally facilitates installation.

Differentiation despite lower inventory costs

Sensys mounting plates are also compatible with Intermat hinges. This means you can fit standardised carcass elements with fronts / hinges of different qualities. And set your furniture range apart with minimal effort.

Fast assembly concealed hinge

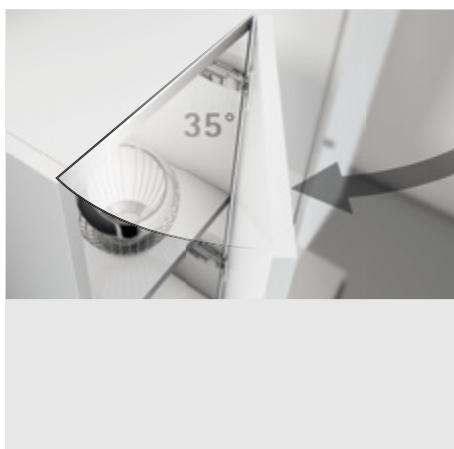
Sensys with integrated Silent System

► Key selling points



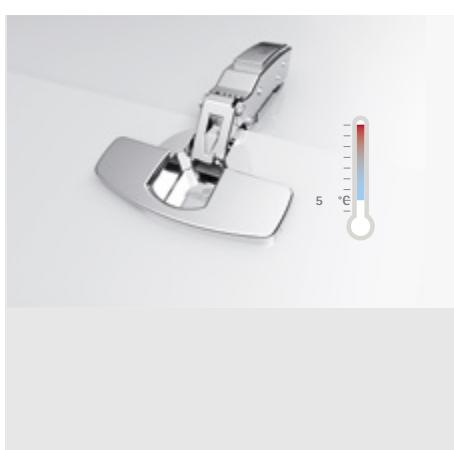
Put the final touch to your furniture design with Sensys

Sensys helps to bring a look of harmony to your furniture. The hinge's multiple award winning design is not only ideal for complementing your furniture from a practical aspect but also in terms of aesthetic appeal. With Sensys, you are sure to excite customers with an eye for detail. If you wish, you can be part of the product with your own logo on the hinge's cover cap.



Optimum Silent System performance all automatically – without the effort of adjustment

The Sensys hinge's Silent System always closes any door gently and reliably. Whether small and light. Or large and heavy. The exceptionally wide automatic closing angle of 35° effortlessly slows down heavy doors even closed with a hard push.



Avoid complaints – with Sensys

Heat from direct sunlight or low temperatures in unheated new buildings can impair the performance of hinges – and also the perceived quality of your furniture as a result. Not so with Sensys: The Silent System is designed for perfect operation across an exceptionally wide temperature range from +5°C to +40°C.



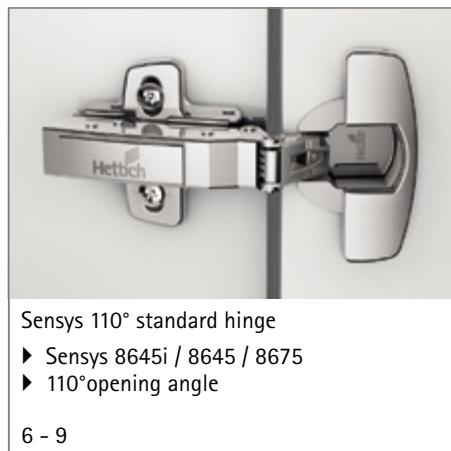
Better Silent System performance reduces your costs

On large cabinet doors, the best in class performance you get with Sensys pays particular dividends: compared to other hinges, you often need one or two Sensys hinges less to obtain constant Silent System excellence.

Fast assembly concealed hinge



- Sensys
- Range summary



Sensys 110° standard hinge

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

6 - 9



Sensys 95° thick door hinge

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

10 - 15



Sensys 165° wide angle hinge

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

16 - 19



Sensys W30 angle hinge

- Sensys 8639i W30 / 8639 W30 / 8669 W30
- For 30° face angles

20 - 23



Sensys W45 angle hinge

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

24 - 29



Sensys W90 angle hinge

- Sensys 8639i W90 / 8639 W90 / 8669 W90
- For 90° face angles

30 - 33



Sensys aluminium frame hinge

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

34 - 37



Intermat corner unit hinge

- Intermat 9930
- For folding doors

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Mounting plates

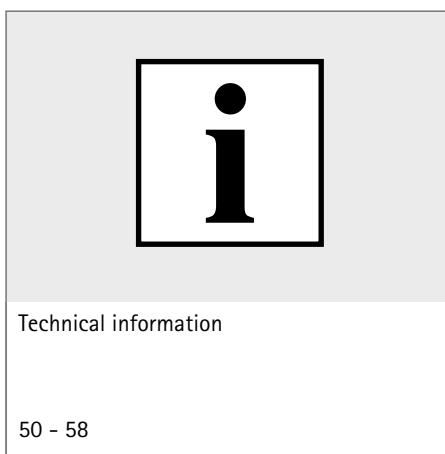
- System 8000 / 8099
- For Sensys and Intermat hinges

42 - 47



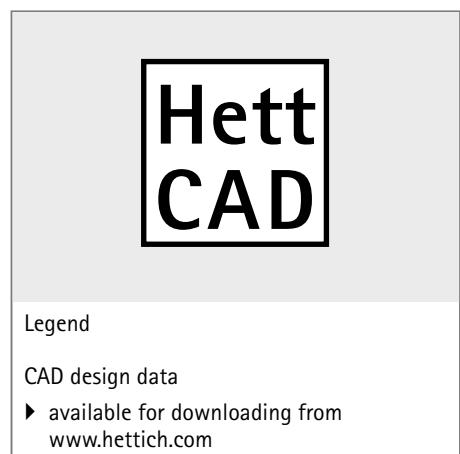
Accessories

48 - 49



Technical information

50 - 58



Legend

CAD design data

- available for downloading from www.hettich.com

Fast assembly concealed hinge with integrated Silent System

Hett
CAD

- Sensys 8645i
- 110° opening angle



- Concealed clip on hinge with integrated Silent System
- Quality classification under EN 15570, Level 3
- For door thickness of 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, 110° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Full overlay | Half overlay | Inset | |
|------------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| Screw on version TH 52 | | - | 9 071 205 | 9 071 206 | 9 071 207 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 071 208 | 9 071 209 | 9 071 210 | 200 ea. |
| Flash fast assembly TH 54 | | Ø 10 x 11 | 9 071 211 | 9 071 212 | 9 071 213 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 071 220 | 9 071 221 | 9 071 222 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 071 214 | 9 071 215 | 9 071 216 | 200 ea. |
| Screw on version TB 52 | | - | 9 071 223 | 9 071 224 | 9 071 225 | 200 ea. |
| Press in version TB 53 | | Ø 8 x 11 | 9 071 226 | 9 071 227 | 9 071 228 | 200 ea. |
| Flash fast assembly TB 54 | | Ø 8 x 11 | 9 071 229 | 9 071 230 | 9 071 231 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 071 238 | 9 071 239 | 9 071 240 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 071 232 | 9 071 233 | 9 071 234 | 200 ea. |
| Screw on version TS 52 | | - | 9 071 241 | 9 071 242 | 9 071 243 | 200 ea. |
| Press in version TS 53 | | Ø 10 x 11 | 9 071 244 | 9 071 245 | 9 071 246 | 200 ea. |
| Flash fast assembly TS 54 | | Ø 10 x 11 | 9 071 247 | 9 071 248 | 9 071 249 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 071 220 | 9 071 221 | 9 071 222 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 071 250 | 9 071 251 | 9 071 252 | 200 ea. |

Fast assembly concealed hinge without integrated Silent System

Hett
CAD

- Sensys 8645
- 110° opening angle



- Concealed clip on hinge without integrated Silent System
- Quality classification under EN 15570, Level 3
- For door thickness of 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, 110° opening angle

| Cup installation | Drilling pattern | Fixing hole ø x T mm | Full overlay | Half overlay | Inset | PU |
|-----------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | |
| Screw on version TH 52 | | - | 9 071 259 | 9 071 260 | 9 071 261 | 200 ea. |
| Press in version TH 53 | | ø 10 x 11 | 9 071 262 | 9 071 263 | 9 071 264 | 200 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 071 274 | 9 071 275 | 9 071 276 | 200 ea. |
| Screw on version TB 52 | | - | 9 071 277 | 9 071 278 | 9 071 279 | 200 ea. |
| Press in version TB 53 | | ø 8 x 11 | 9 071 280 | 9 071 281 | 9 071 282 | 200 ea. |
| Fix fast assembly TB 55 | | ø 8 x 6 | 9 071 292 | 9 071 293 | 9 071 294 | 200 ea. |
| Screw on version TS 52 | | - | 9 071 295 | 9 071 296 | 9 071 297 | 200 ea. |
| Press in version TS 53 | | ø 10 x 11 | 9 071 298 | 9 071 299 | 9 071 300 | 200 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 071 274 | 9 071 275 | 9 071 276 | 200 ea. |

Fast assembly concealed hinge without automatic closing function

Hett
CAD

- Sensys 8675
- 110° opening angle



- Clip on hinge without automatic closing function
- For example, for Push to open applications
- Quality classification under EN 15570, Level 3
- For door thickness of 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, 110° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Full overlay | Half overlay | Inset | PU |
|-----------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | |
| Screw on version TH 52 | | - | 9 071 313 | 9 071 314 | 9 071 315 | 200 ea. |
| | | Ø 10 x 11 | 9 071 316 | 9 071 317 | 9 071 318 | 200 ea. |
| | | Ø 10 x 6 | 9 071 328 | 9 071 329 | 9 071 330 | 200 ea. |
| Press in version TH 53 | | - | 9 071 331 | 9 071 332 | 9 071 333 | 200 ea. |
| | | Ø 8 x 11 | 9 071 334 | 9 071 335 | 9 071 336 | 200 ea. |
| | | Ø 8 x 6 | 9 071 346 | 9 071 347 | 9 071 348 | 200 ea. |
| Fix fast assembly THS 55 | | - | 9 071 349 | 9 071 350 | 9 071 351 | 200 ea. |
| | | Ø 10 x 11 | 9 071 352 | 9 071 353 | 9 071 354 | 200 ea. |
| | | Ø 10 x 6 | 9 071 328 | 9 071 329 | 9 071 330 | 200 ea. |

Fast assembly concealed hinge

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

Minimum reveal per door

| Door thickness mm | Cup distance C mm | | | | | |
|-------------------|-------------------|-----|-----|-----|-----|-----|
| | 3.0 | 4.0 | 4.5 | 5.0 | 6.0 | 7.0 |
| 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 |

Note:

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

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

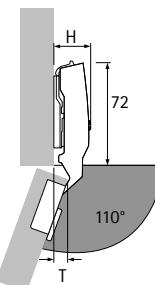
Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.6 mm

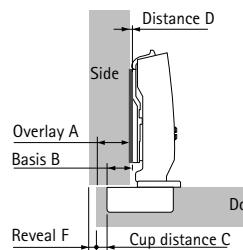
Installation dimensions



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

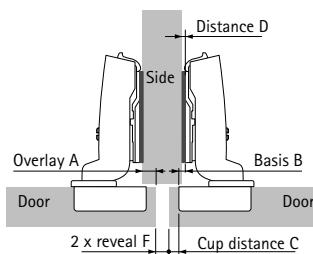
| Door mounting option | H mm | T mm |
|----------------------|------|------|
| Full overlay | 25.0 | 8.5 |
| Half overlay | 31.0 | 18.0 |
| Inset | 38.0 | 25.0 |

Full overlay



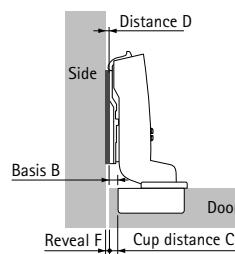
Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Half overlay



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

Inset



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

| 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 | |

| 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 | |

| 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 |
| 21 | | 0.4 | 1.3 | 1.8 | 2.3 | 3.2 |
| 22 | | 1.2 | 1.8 | 2.2 | 2.6 | 3.6 |
| 23 | | 2.0 | 2.6 | 2.9 | 3.2 | 4.0 |
| 24 | | 2.9 | 3.4 | 3.7 | 4.0 | 4.6 |

► Advice

For mounting plates, see pages 42 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

Fast assembly concealed hinge with integrated Silent System

Hett
CAD

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



- Concealed clip on hinge with 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, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Full overlay | Half overlay | Inset | PU |
|---------------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | |
| Screw on version TH 52 | | - | 9 090 260 | 9 090 270 | 9 090 280 | 200 ea. |
| | | Ø 10 x 11 | 9 090 261 | 9 090 271 | 9 090 281 | 200 ea. |
| | | Ø 10 x 11 | 9 090 262 | 9 090 272 | 9 090 282 | 200 ea. |
| | | Ø 5 x 11 | 9 090 264 | 9 090 274 | 9 090 284 | 200 ea. |
| Press in version TH 53 | | - | 9 090 290 | 9 090 300 | 9 090 310 | 200 ea. |
| | | Ø 8 x 11 | 9 090 291 | 9 090 301 | 9 090 311 | 200 ea. |
| | | Ø 8 x 11 | 9 090 292 | 9 090 302 | 9 090 312 | 200 ea. |
| | | Ø 5 x 11 | 9 090 294 | 9 090 304 | 9 090 314 | 200 ea. |
| Flash fast assembly TH 54 | | - | 9 090 320 | 9 090 330 | 9 090 340 | 200 ea. |
| | | Ø 10 x 11 | 9 090 321 | 9 090 331 | 9 090 341 | 200 ea. |
| | | Ø 10 x 11 | 9 090 322 | 9 090 332 | 9 090 342 | 200 ea. |
| | | Ø 5 x 11 | 9 090 324 | 9 090 334 | 9 090 344 | 200 ea. |
| With prem. Euro screws TH 56 | | - | 9 090 320 | 9 090 330 | 9 090 340 | 200 ea. |
| | | Ø 10 x 11 | 9 090 321 | 9 090 331 | 9 090 341 | 200 ea. |
| | | Ø 10 x 11 | 9 090 322 | 9 090 332 | 9 090 342 | 200 ea. |
| | | Ø 5 x 11 | 9 090 324 | 9 090 334 | 9 090 344 | 200 ea. |

Fast assembly concealed hinge without integrated Silent System

Hett
CAD

- Sensys 8631 for thick doors
- 95° opening angle



- Concealed clip on hinge 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, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole ø x T mm | Full overlay | Half overlay | Inset | PU |
|---------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | |
| Screw on version TH 52 | | - | 9 090 350 | 9 090 360 | 9 090 370 | 200 ea. |
| Press in version TH 53 | | ø 10 x 11 | 9 090 351 | 9 090 361 | 9 090 371 | 200 ea. |
| Screw on version TB 52 | | - | 9 090 380 | 9 090 390 | 9 090 400 | 200 ea. |
| Press in version TB 53 | | ø 8 x 11 | 9 090 381 | 9 090 391 | 9 090 401 | 200 ea. |
| Screw on version TS 52 | | - | 9 090 410 | 9 090 420 | 9 090 430 | 200 ea. |
| Press in version TS 53 | | ø 10 x 11 | 9 090 411 | 9 090 421 | 9 090 431 | 200 ea. |

Fast assembly concealed hinge without automatic closing function

Hett
CAD

- Sensys 8661 for thick doors
- 95° opening angle



- Clip on hinge without automatic closing function
- 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, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Full overlay | Half overlay | Inset | PU |
|---------------------------|------------------|-------------------------|-----------------|--------------|----------------|---------|
| | | | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | |
| Screw on version TH 52 | | - | 9 090 440 | 9 090 450 | 9 090 460 | 200 ea. |
| | | | Ø 10 x 11 | 9 090 441 | 9 090 451 | |
| Press in version TH 53 | | Ø 8 x 11 | 9 090 470 | 9 090 480 | 9 090 490 | 200 ea. |
| | | | 9 090 471 | 9 090 481 | 9 090 491 | |
| Screw on version TB 52 | | - | 9 090 500 | 9 090 510 | 9 090 520 | 200 ea. |
| | | | Ø 10 x 11 | 9 090 501 | 9 090 511 | |
| Press in version TB 53 | | - | 9 090 500 | 9 090 510 | 9 090 520 | 200 ea. |
| | | | Ø 10 x 11 | 9 090 501 | 9 090 511 | |

Fast assembly concealed hinge

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

Minimum reveal per door

| Door thickness mm | Cup distance C mm | | | | | | | |
|-------------------|-------------------|-----|-----|-----|-----|-----|-----|--|
| | 3.0 | 4.0 | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | |
| 15 | 0.1 | 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 | |

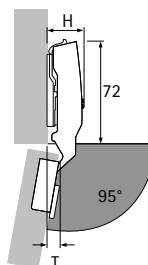
Note:

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

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

Radius 0 mm:

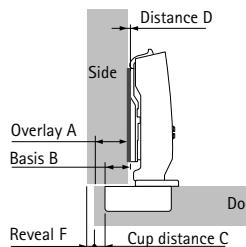
Value in table + 0.4 mm



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

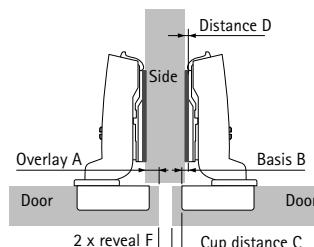
| Door mounting option | H mm | T mm |
|----------------------|------|------|
| Full overlay | 24.0 | 12.5 |
| Half overlay | 28.3 | 22.0 |
| Inset | 35.3 | 29.0 |

Full overlay



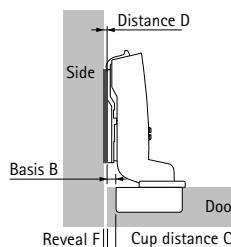
Distance D = C + B - A
= cup distance C + 12.5 mm - overlay A

Half overlay



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

Inset



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

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

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

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

► Advice

For mounting plates, see pages 42 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

For example applications, see page 51

Fast assembly concealed hinge

Sensys 8631i / Sensys 8631 / Sensys 8661 for thick doors

► **Opening angle 95°**

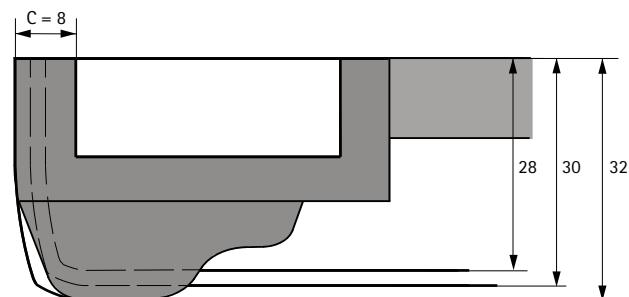
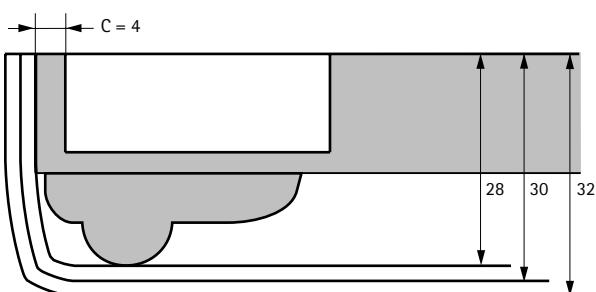
Door contours for minimum reveal application – scale 1:1

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.



Examples 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

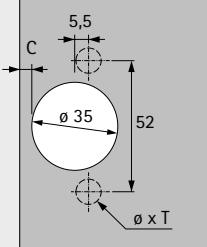
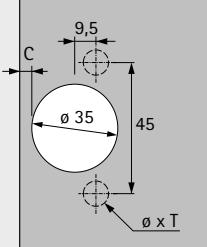
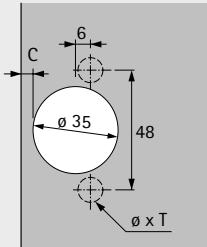
Hett
CAD

- Sensys 8657i, 0 protrusion hinge
- 165° opening angle



- Concealed clip on hinge with 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 accessory
- 0 protrusion hinge
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel

Sensys 8657i, 165° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Full overlay | Half overlay | PU |
|---------------------------------|---|-------------------------|------------------|------------------|--------|
| | | | Basis B 12.5 mm | Basis B 3 mm | |
| Screw on version TH 52 |  | - | 9 099 540 | 9 099 550 | 50 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 099 541 | 9 099 551 | 50 ea. |
| Flash fast assembly TH 54 | | Ø 10 x 11 | 9 099 542 | 9 099 552 | 50 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 099 543 | 9 099 553 | 50 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 099 544 | 9 099 554 | 50 ea. |
| Screw on version TB 52 |  | - | 9 099 560 | 9 099 570 | 50 ea. |
| Press in version TB 53 | | Ø 8 x 11 | 9 099 561 | 9 099 571 | 50 ea. |
| Flash fast assembly TB 54 | | Ø 8 x 11 | 9 099 562 | 9 099 572 | 50 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 099 563 | 9 099 573 | 50 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 099 564 | 9 099 574 | 50 ea. |
| Screw on version TS 52 |  | - | 9 099 580 | 9 099 590 | 50 ea. |
| Press in version TS 53 | | Ø 10 x 11 | 9 099 581 | 9 099 591 | 50 ea. |
| Flash fast assembly TS 54 | | Ø 10 x 11 | 9 099 582 | 9 099 592 | 50 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 099 543 | 9 099 553 | 50 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 099 584 | 9 099 594 | 50 ea. |

- Sensys 8657, 0 protrusion hinge
- 165° opening angle



- Concealed clip on hinge 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 accessory
- 0 protrusion hinge
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel

Sensys 8657, 165° opening angle

| Cup installation | Drilling pattern | Fixing hole ø x T mm | Full overlay | Half overlay | PU |
|-----------------------------|------------------|-------------------------|------------------|------------------|--------|
| Screw on version TH 52 | | - | 9 099 600 | 9 099 610 | 50 ea. |
| Press in version TH 53 | | ø 10 x 11 | 9 099 601 | 9 099 611 | 50 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 099 603 | 9 099 613 | 50 ea. |
| Screw on version TB 52 | | - | 9 099 620 | 9 099 630 | 50 ea. |
| Press in version TB 53 | | ø 8 x 11 | 9 099 621 | 9 099 631 | 50 ea. |
| Fix fast assembly TB 55 | | ø 8 x 6 | 9 099 623 | 9 099 633 | 50 ea. |
| Screw on version TS 52 | | - | 9 099 640 | 9 099 650 | 50 ea. |
| Press in version TS 53 | | ø 10 x 11 | 9 099 641 | 9 099 651 | 50 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 099 603 | 9 099 613 | 50 ea. |

Fast assembly concealed hinge without automatic closing function

Hett
CAD

- **Sensys 8687, 0 protrusion hinge**
- **165° opening angle**



- Clip on hinge without automatic closing function
- 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 accessory
- 0 protrusion hinge
- Hinge arm material: nickel plated steel
- Hinge cup material: nickel plated steel

Sensys 8687, 165° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Full overlay | Half overlay | PU |
|-----------------------------|------------------|-------------------------|------------------|------------------|--------|
| | | | Basis B 12.5 mm | Basis B 3 mm | |
| Screw on version TH 52 | | - | 9 099 660 | 9 099 670 | 50 ea. |
| | | Ø 10 x 11 | 9 099 661 | 9 099 671 | 50 ea. |
| | | Ø 10 x 6 | 9 099 663 | 9 099 673 | 50 ea. |
| Press in version TH 53 | | - | 9 099 680 | 9 099 690 | 50 ea. |
| | | Ø 8 x 11 | 9 099 681 | 9 099 691 | 50 ea. |
| | | Ø 8 x 6 | 9 099 683 | 9 099 693 | 50 ea. |
| Fix fast assembly THS 55 | | - | 9 099 700 | 9 099 710 | 50 ea. |
| | | Ø 10 x 11 | 9 099 701 | 9 099 711 | 50 ea. |
| | | Ø 10 x 6 | 9 099 663 | 9 099 673 | 50 ea. |

Fast assembly concealed hinge

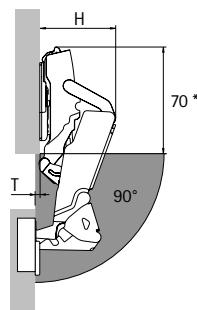
- Sensys 8657i / Sensys 8657 / Sensys 8687, 0-protrusion hinge
- 165° opening angle

Minimum reveal per door

| Door thickness mm | Cup distance C mm | | | | | |
|-------------------|-------------------|-----|-----|-----|-----|-----|
| | 3.0 | 4.0 | 4.5 | 5.0 | 6.0 | 7.0 |
| 15 | 0.0 | 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°

Installation dimensions

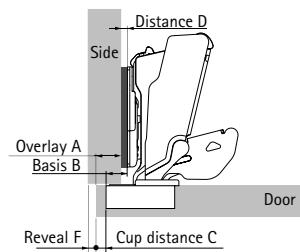


No door protrusion T up to distance D = 3.0, unobstructed interior for pull-outs

*Hinge closed: 80 mm

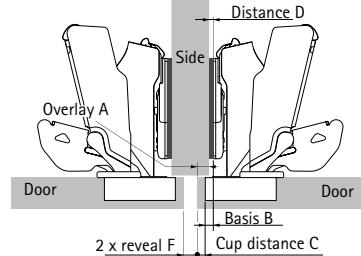
| Door mounting option | H mm (max. at 30°) | T mm (90°, D0) |
|----------------------|--------------------|----------------|
| Full overlay | 66 | -3 |
| Half overlay | 75.5 | 6.5 |

Full overlay



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

Half overlay



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

| Overlay mm | Cup distance C mm | | | | | |
|------------|-------------------|-----|-----|-----|-----|-----|
| | 3.0 | 4.0 | 4.5 | 5.0 | 6.0 | 7.0 |
| 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 | |

| Overlay mm | Cup distance C mm | | | | | |
|------------|-------------------|-----|-----|------|------|------|
| | 3.0 | 4.0 | 4.5 | 5.0 | 6.0 | 7.0 |
| - 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, see pages 42 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

Fast assembly concealed hinge with integrated Silent System

Hett
CAD

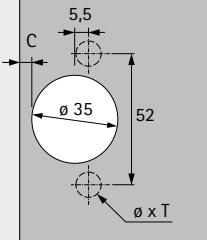
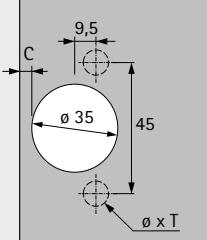
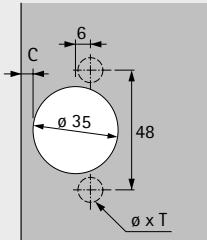
► Sensys 8639i W30

► For 30° face angles, 95° opening angle



- Concealed clip on hinge with integrated Silent System
- Quality classification under EN 15570, Level 3
- For diagonal cabinets, carcass angle 120°
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8639i W30, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Overlay | Inset | PU |
|------------------------------|---|-------------------------|------------------|------------------|---------|
| | | | Basis B 2 mm | Basis B - 16 mm | |
| Screw on version TH 52 |  | - | 9 085 166 | 9 085 167 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 085 171 | 9 085 172 | 200 ea. |
| Flash fast assembly TH 54 | | Ø 10 x 11 | 9 085 176 | 9 085 177 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 336 | 9 085 337 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 085 181 | 9 085 182 | 200 ea. |
| Screw on version TB 52 |  | - | 9 085 191 | 9 085 192 | 200 ea. |
| Press in version TB 53 | | Ø 8 x 11 | 9 085 196 | 9 085 197 | 200 ea. |
| Flash fast assembly TB 54 | | Ø 8 x 11 | 9 085 201 | 9 085 202 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 085 341 | 9 085 342 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 085 206 | 9 085 207 | 200 ea. |
| Screw on version TS 52 |  | - | 9 085 306 | 9 085 307 | 200 ea. |
| Press in version TS 53 | | Ø 10 x 11 | 9 085 311 | 9 085 312 | 200 ea. |
| Flash fast assembly TS 54 | | Ø 10 x 11 | 9 085 316 | 9 085 317 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 336 | 9 085 337 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 085 321 | 9 085 322 | 200 ea. |

- Sensys 8639 W30
- For 30° face angles, 95° opening angle



- Concealed clip on hinge without integrated Silent System
- Quality classification under EN 15570, Level 3
- For diagonal cabinets, carcass angle 120°
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8639 W30, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole ø x T mm | Overlay | Inset | PU |
|-----------------------------|------------------|-------------------------|------------------|------------------|---------|
| | | | Basis B 2 mm | Basis B - 16 mm | |
| Screw on version TH 52 | | - | 9 085 216 | 9 085 217 | 200 ea. |
| Press in version TH 53 | | ø 10 x 11 | 9 085 221 | 9 085 222 | 200 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 085 381 | 9 085 382 | 200 ea. |
| Fix fast assembly TB 55 | | ø 8 x 6 | 9 085 386 | 9 085 387 | 200 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 085 381 | 9 085 382 | 200 ea. |

► **Sensys 8669 W30**

► **For 30° face angles, 95° opening angle**



- Clip on hinge without automatic closing function
- For example, for Push to open applications
- Quality classification under EN 15570, Level 3
- For diagonal cabinets, carcase angle 120°
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8669 W30, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Overlay | Inset | PU |
|--------------------------|------------------|-------------------------|------------------|------------------|---------|
| | | | Basis B 2 mm | Basis B - 16 mm | |
| Screw on version TH 52 | | - | 9 085 266 | 9 085 267 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 085 271 | 9 085 272 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 426 | 9 085 427 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 085 431 | 9 085 432 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 426 | 9 085 427 | 200 ea. |

Fast assembly concealed hinge

- Sensys 8639i W30 / Sensys 8639 W30 / Sensys 8669 W30
- For 30° face angles, 95° opening angle

Minimum reveal per door

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

Note:

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

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

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.6 mm

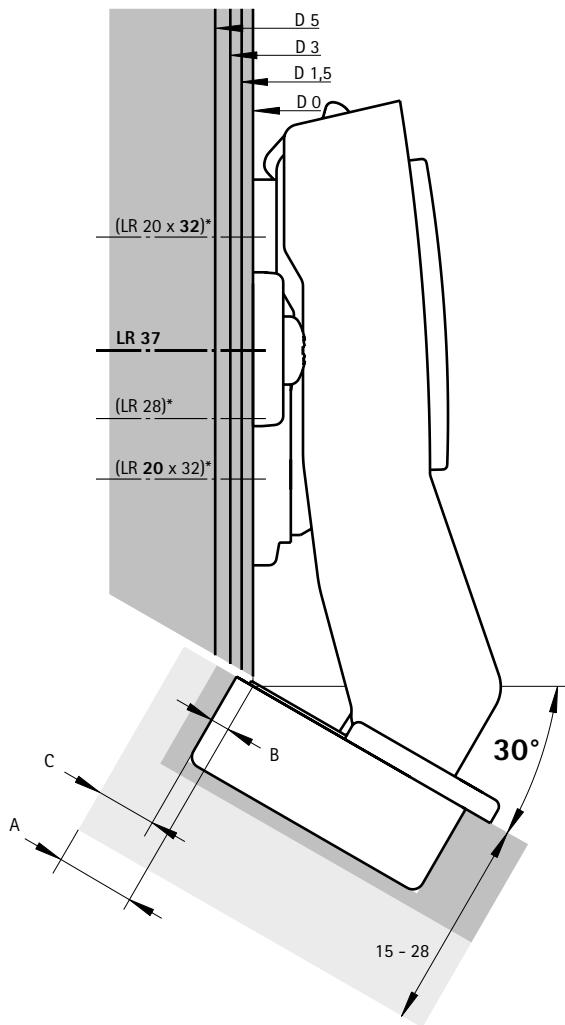
Note

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.

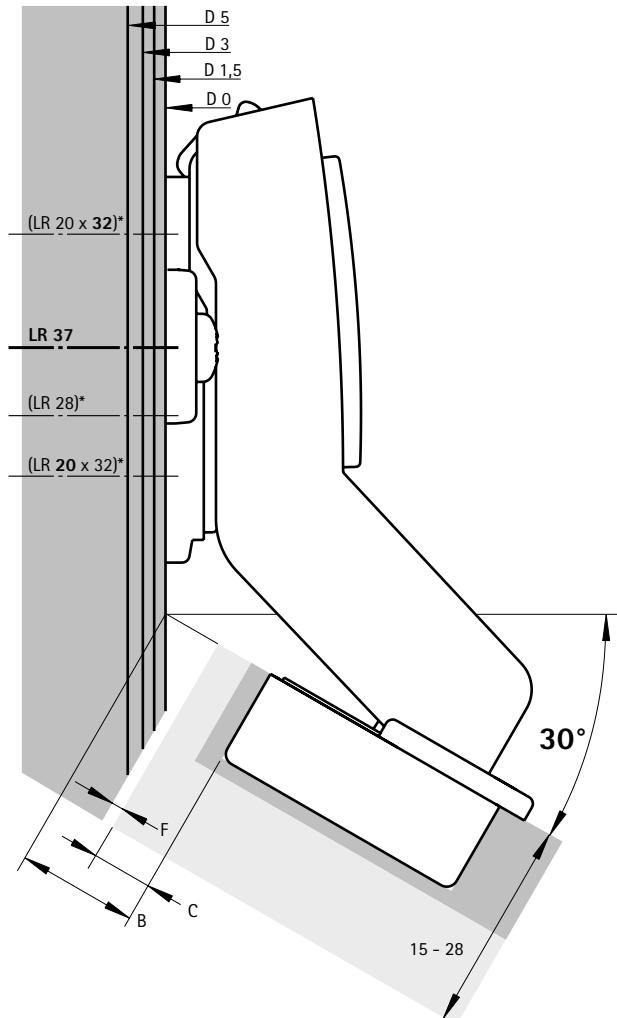
Overlay (B 2 mm) - scale 1:1

Distance D = $0.87 \times (C + B - A)$
= $0.87 \times (\text{cup distance } C + 2 \text{ mm} - \text{overlap } A)$



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

Distance D = $0.87 \times (C + B + F)$
= $0.87 \times (\text{cup distance } C - 16 \text{ mm} + \text{reveal } F)$



► Advice

*not available on all markets

For mounting plates and accessories, see page 42 - 49

For example applications and technical information, see pages 50 - 58

Fast assembly concealed hinge with integrated Silent System

Hett
CAD

► Sensys 8639i W45

► For 45° face angles, 95° opening angle



- Concealed clip on hinge with integrated Silent System
- Quality classification under EN 15570, Level 3
- For diagonal cabinets, carcass angle 135°
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8639i W45, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Overlay | Overlay | Inset | PU |
|---------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 9 mm | Basis B - 2 mm | Basis B - 25 mm | |
| Screw on version TH 52 | | - | 9 090 748 | 9 085 168 | 9 085 169 | 200 ea. |
| | | Ø 10 x 11 | 9 090 749 | 9 085 173 | 9 085 174 | 200 ea. |
| | | Ø 10 x 11 | 9 091 017 | 9 085 178 | 9 085 179 | 200 ea. |
| | | Ø 10 x 6 | 9 091 027 | 9 085 338 | 9 085 339 | 200 ea. |
| | | Ø 5 x 11 | 9 091 018 | 9 085 183 | 9 085 184 | 200 ea. |
| Press in version TB 52 | | - | 9 091 019 | 9 085 193 | 9 085 194 | 200 ea. |
| | | Ø 8 x 11 | 9 091 020 | 9 085 198 | 9 085 199 | 200 ea. |
| | | Ø 8 x 11 | 9 091 021 | 9 085 203 | 9 085 204 | 200 ea. |
| | | Ø 8 x 6 | 9 091 028 | 9 085 343 | 9 085 344 | 200 ea. |
| | | Ø 5 x 11 | 9 091 022 | 9 085 208 | 9 085 209 | 200 ea. |
| Press in version TS 52 | | - | 9 091 023 | 9 085 308 | 9 085 309 | 200 ea. |
| | | Ø 10 x 11 | 9 091 024 | 9 085 313 | 9 085 314 | 200 ea. |
| | | Ø 10 x 11 | 9 091 025 | 9 085 318 | 9 085 319 | 200 ea. |
| | | Ø 10 x 6 | 9 091 027 | 9 085 338 | 9 085 339 | 200 ea. |
| | | Ø 5 x 11 | 9 091 026 | 9 085 323 | 9 085 324 | 200 ea. |

► Sensys 8639 W45

► For 45° face angles, 95° opening angle



- Concealed clip on hinge without integrated Silent System
- Quality classification under EN 15570, Level 3
- For diagonal cabinets, carcass angle 135°
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8639 W45, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole ø x T mm | Overlay | Overlay | Inset | PU |
|--------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 9 mm | Basis B - 2 mm | Basis B - 25 mm | |
| Screw on version TH 52 | | - | 9 091 029 | 9 085 218 | 9 085 219 | 200 ea. |
| Press in version TH 53 | | ø 10 x 11 | 9 091 030 | 9 085 223 | 9 085 224 | 200 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 091 041 | 9 085 383 | 9 085 384 | 200 ea. |
| Fix fast assembly TB 55 | | ø 8 x 6 | 9 091 042 | 9 085 388 | 9 085 389 | 200 ea. |
| Fix fast assembly THS 55 | | ø 10 x 6 | 9 091 041 | 9 085 383 | 9 085 384 | 200 ea. |

Fast assembly concealed hinge without automatic closing function

Hett
CAD

► Sensys 8669 W45

► For 45° face angles, 95° opening angle



- Clip on hinge without automatic closing function
- For example, for Push to open applications
- Quality classification under EN 15570, Level 3
- For diagonal cabinets, carcase angle 135°
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8669 W45, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Overlay | Overlay | Inset | PU |
|--------------------------|------------------|-------------------------|------------------|------------------|------------------|---------|
| | | | Basis B 9 mm | Basis B - 2 mm | Basis B - 25 mm | |
| Screw on version TH 52 | | - | 9 091 058 | 9 085 268 | 9 085 269 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 091 059 | 9 085 273 | 9 085 274 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 091 074 | 9 085 428 | 9 085 429 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 091 075 | 9 085 433 | 9 085 434 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 091 074 | 9 085 428 | 9 085 429 | 200 ea. |

Fast assembly concealed hinge

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

► For 45° face angles, 95° opening angle

Minimum reveal per door

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

Note:

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

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

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.6 mm

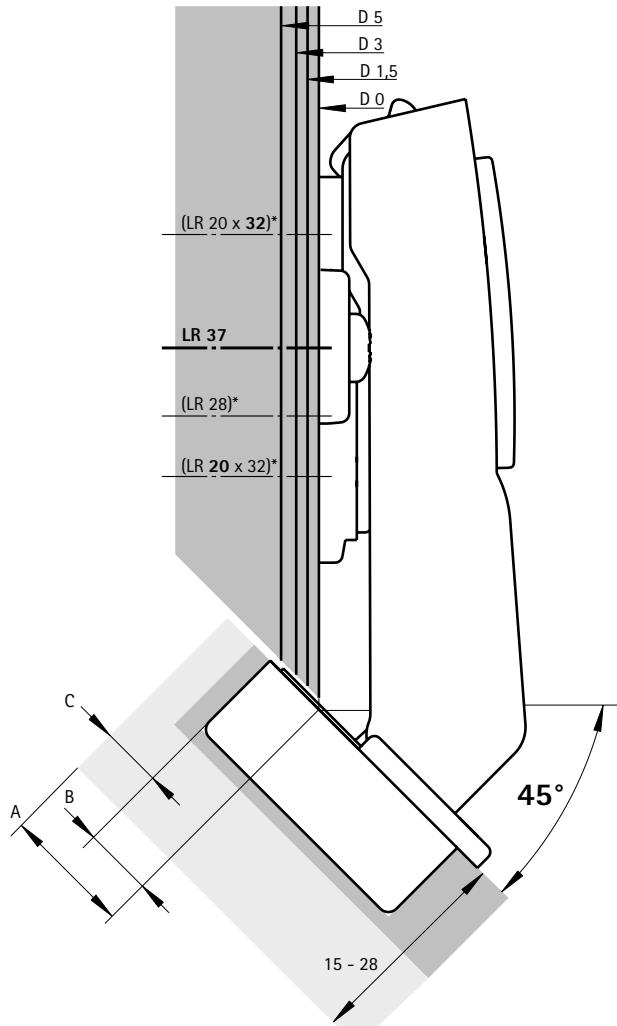
Note

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.

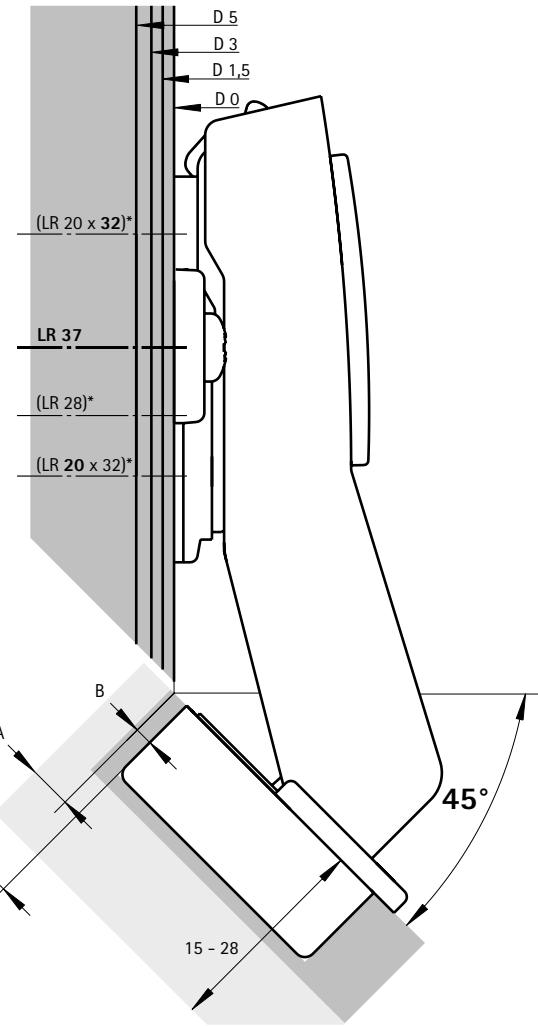
Overlay (B 9 mm) - scale 1:1

Distance D = $0.71 \times (C + B - A)$
= $0.71 \times (\text{cup distance } C + 9 \text{ mm} - \text{overlay } A)$



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

Distance D = $0.71 \times (C + B - A)$
= $0.71 \times (\text{cup distance } C + 2 \text{ mm} - \text{overlay } A)$



► Advice

*not available on all markets

For mounting plates and accessories, see page 42 - 49

For example applications and technical information, see pages 50 - 58

Fast assembly concealed hinge

- Sensys 8639i W45 / Sensys 8639 W45 / Sensys 8669 W45
- For 45° face angles, 95° opening angle

Minimum reveal per door

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

Note:

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

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

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value in table - 0.6 mm

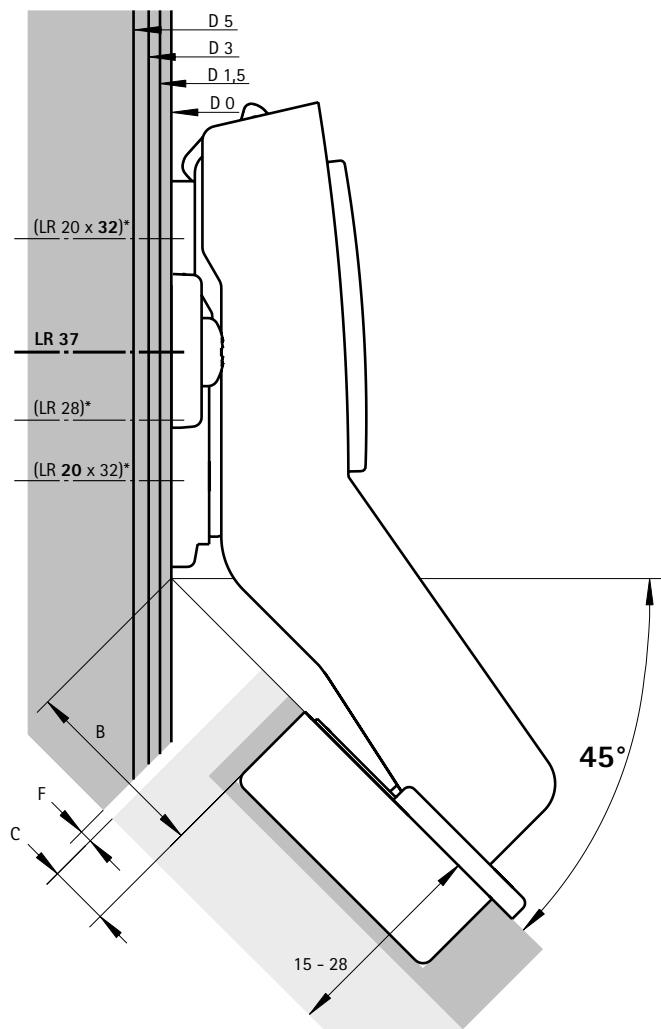
Note

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

Distance D = $0.71 \times (C + B + F)$
= $0.71 \times (\text{cup distance } C - 25 \text{ mm} + \text{reveal } F)$



► Advice

*not available on all markets

For mounting plates and accessories, see page 42 - 49

For example applications and technical information, see pages 50 - 58

Fast assembly concealed hinge with integrated Silent System

Hett
CAD

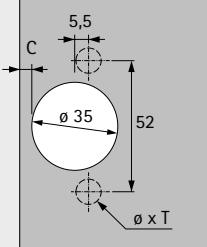
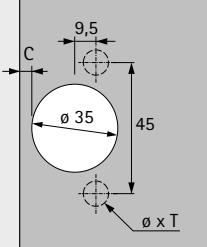
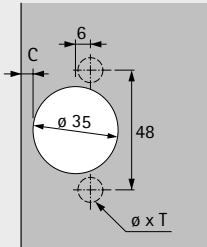
► Sensys 8639i W90

► For 90° face angles, 95° opening angle



- Concealed clip on hinge with integrated Silent System
- Quality classification under EN 15570, Level 3
- For corner cabinets
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8639i W90, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Inset | PU |
|---------------------------------|---|-------------------------|------------------|---------|
| Screw on version TH 52 |  | - | 9 085 170 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 085 175 | 200 ea. |
| Flash fast assembly TH 54 | | Ø 10 x 11 | 9 085 180 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 340 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 085 185 | 200 ea. |
| Screw on version TB 52 |  | - | 9 085 195 | 200 ea. |
| Press in version TB 53 | | Ø 8 x 11 | 9 085 200 | 200 ea. |
| Flash fast assembly TB 54 | | Ø 8 x 11 | 9 085 205 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 085 345 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 085 210 | 200 ea. |
| Screw on version TS 52 |  | - | 9 085 310 | 200 ea. |
| Press in version TS 53 | | Ø 10 x 11 | 9 085 315 | 200 ea. |
| Flash fast assembly TS 54 | | Ø 10 x 11 | 9 085 320 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 340 | 200 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 085 215 | 200 ea. |

► Sensys 8639 W90

► For 90° face angles, 95° opening angle



- Concealed clip on hinge without integrated Silent System
- Quality classification under EN 15570, Level 3
- For corner cabinets
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8639 W90, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Inset | PU |
|-----------------------------|------------------|-------------------------|------------------|---------|
| Screw on version TH 52 | | - | 9 085 220 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 085 225 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 385 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 085 390 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 085 385 | 200 ea. |

► Sensys 8669 W90

► For 90° face angles, 95° opening angle



- Clip on hinge without automatic closing function
- For example, for Push to open applications
- Quality classification under EN 15570, Level 3
- For corner cabinets
- For door thickness of 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: nickel plated die cast zinc
- Hinge cup material: nickel plated steel

Sensys 8669 W90, 95° opening angle

| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Inset | PU | |
|-----------------------------|------------------|-------------------------|-------|------------------|---------|
| | | | | | |
| Screw on version TH 52 | | - | | 9 085 270 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | | 9 085 275 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | | 9 085 430 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | | 9 085 435 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | | 9 085 430 | 200 ea. |

Fast assembly concealed hinge

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

Minimum reveal per door

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

Note:

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

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

Radius 0 mm:

Value in table + 0.4 mm

Radius 3 mm:

Value 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.

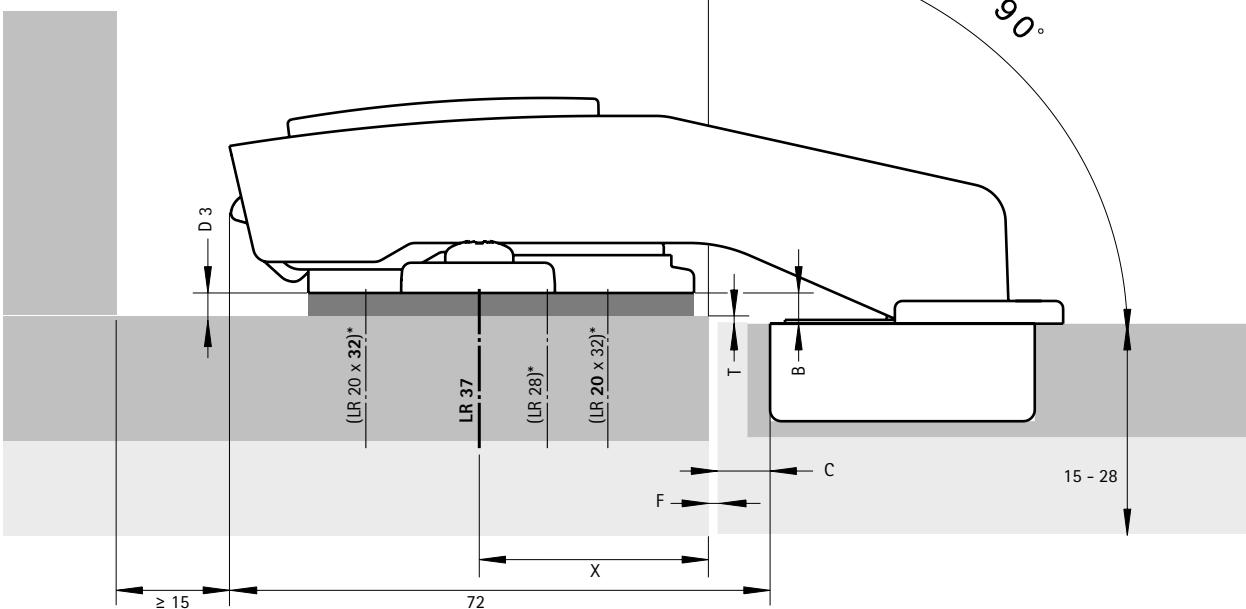
Determining hole line distance X mm when using mounting plate with hole line37

| 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 |

Hole line distance X = 38.5 - C - F

Inset (B 4 mm) - scale 1:1

Distance D = 4 mm - door offset
(recommended door offset is 1 mm)



► Advice

*not available on all markets

For mounting plates, see pages 40 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

Fast assembly concealed hinge with integrated Silent System

Hett
CAD

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



- Concealed clip on hinge with 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
- Hinge cup material: nickel plated die cast zinc
- Including 2 fixing screws

Sensys 8638i, 95° opening angle

| | Full overlay | Half overlay | Inset | |
|---------------------------|------------------|------------------|------------------|---------|
| Cup installation | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | PU |
| Screw on version TA 32 | 9 071 421 | 9 071 422 | 9 071 423 | 200 ea. |

Fast assembly concealed hinge without integrated Silent System

Hett
CAD

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



- ▶ Concealed clip on hinge 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
- ▶ Hinge cup material: nickel plated die cast zinc
- ▶ Including 2 fixing screws

Sensys 8638, 95° opening angle

| | Full overlay | Half overlay | Inset | |
|---------------------------|------------------|------------------|------------------|---------|
| Cup installation | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | PU |
| Screw on version TA 32 | 9 071 424 | 9 071 425 | 9 071 426 | 200 ea. |

Fast assembly concealed hinge without automatic closing function

Hett
CAD

- ▶ **Sensys 8668 for aluminium-framed doors**
- ▶ **95° opening angle**



- ▶ Clip on hinge without automatic closing function
- ▶ 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
- ▶ Hinge cup material: nickel plated die cast zinc
- ▶ Including 2 fixing screws

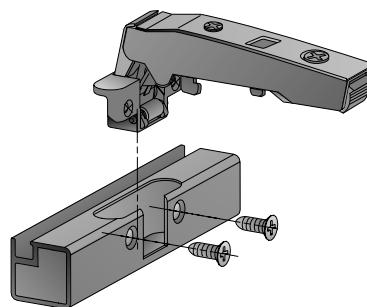
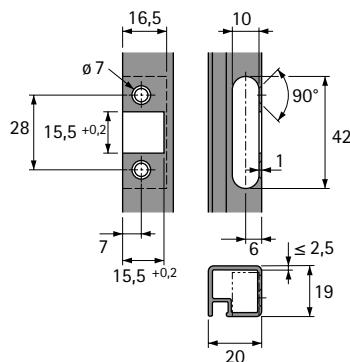
Sensys 8668, 95° opening angle

| | Full overlay | Half overlay | Inset | |
|---------------------------|------------------|------------------|------------------|---------|
| Cup installation | Basis B 12.5 mm | Basis B 3 mm | Basis B - 4 mm | PU |
| Screw on version TA 32 | 9 071 427 | 9 071 428 | 9 071 429 | 200 ea. |

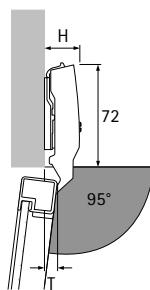
Fast assembly concealed hinge

- Sensys 8638i / Sensys 8638 / Sensys 8668 for aluminium framed doors
- 95° opening angle

Installation



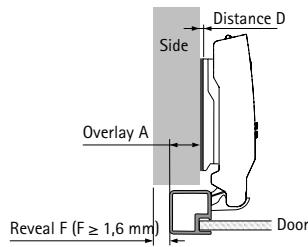
Installation dimensions



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

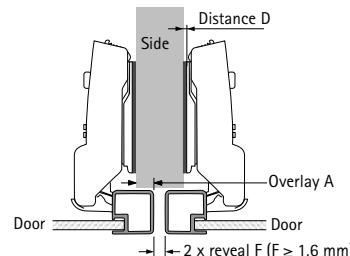
| Door mounting option | H mm | T mm |
|----------------------|------|------|
| Full overlay | 25.0 | 8.0 |
| Half overlay | 31.0 | 17.5 |
| Inset | 38.0 | 24.5 |

Full overlay



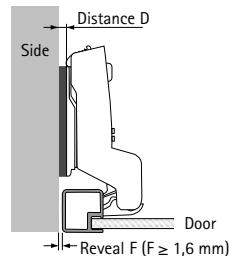
Distance D = 4.5 mm + B - A
= 4.5 mm + 12.5 mm - overlay A

Half overlay



Distance D = 4.5 mm + B - A
= 4.5 mm + 3 mm - overlay A

Inset



Distance D = 4.5 mm + B + F
= 4.5 mm - 4 mm + reveal

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

| 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 |

| 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, see pages 42 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

Fast assembly concealed hinge

Hett
CAD

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



- ▶ Clip on concealed hinge
- ▶ Quality grades to EN 15570, Level 2
- ▶ Cup diameter 35 mm
- ▶ Cup depth 12.8 mm
- ▶ Diagonal adjustment + 9.5 mm / - 9.5 mm
- ▶ For integrated overlay adjustment, see sketch
- ▶ For integrated depth adjustment, see sketch
- ▶ Height adjustment at mounting plate
- ▶ Hinge arm material: nickel plated die cast zinc
- ▶ Hinge cup material: nickel plated steel

Intermat 9930, 50° / 65° opening angle

Overlay



| Cup installation | Drilling pattern | Fixing hole Ø x T mm | Part number | PU |
|---------------------------------|------------------|-------------------------|------------------|---------|
| Screw on version TH 52 | | - | 9 090 045 | 200 ea. |
| Press in version TH 53 | | Ø 10 x 11 | 9 090 046 | 200 ea. |
| Flash fast assembly TH 54 | | Ø 10 x 11 | 9 090 047 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 090 053 | 100 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 090 101 | 200 ea. |
| Screw on version TB 52 | | - | 9 090 048 | 200 ea. |
| Press in version TB 53 | | Ø 8 x 11 | 9 090 049 | 200 ea. |
| Flash fast assembly TB 54 | | Ø 8 x 11 | 9 090 050 | 200 ea. |
| Fix fast assembly TB 55 | | Ø 8 x 6 | 9 090 057 | 100 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 090 102 | 200 ea. |
| Screw on version TS 52 | | - | 9 090 051 | 200 ea. |
| Press in version TS 53 | | Ø 10 x 11 | 9 090 058 | 200 ea. |
| Flash fast assembly TS 54 | | Ø 10 x 11 | 9 090 062 | 200 ea. |
| Fix fast assembly THS 55 | | Ø 10 x 6 | 9 090 053 | 100 ea. |
| With prem. Euro screws TH 56 | | Ø 5 x 11 | 9 090 103 | 200 ea. |

Fast assembly concealed hinge

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

Version A - Cup drill holes in one door

- ▶ All cup drill holes in one door
- ▶ Minimum reveal can be provided between door elements
- ▶ No cutaway necessary in cup holes
- ▶ 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 in the folding door panel: 37 mm
- ▶ For door thickness of 15 - 21 mm
- ▶ Cup distance C 3 - 6 mm

Version B - Cup drill holes in both doors

- ▶ Both door elements are the same
- ▶ No cutaway necessary in cup holes
- ▶ Diagonal adjustment capability for easy adjustment to door thickness
- ▶ Hole line distance in the side mounted door: 41 mm
- ▶ For door thickness of 15 - 21 mm
- ▶ Cup distance C 3 - 6 mm

Version A - Calculation of door width

Door width = carcase width - reveal F - door thickness

Version B - Calculation of door width

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

Version A - Calculation of mounting plate distance

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

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

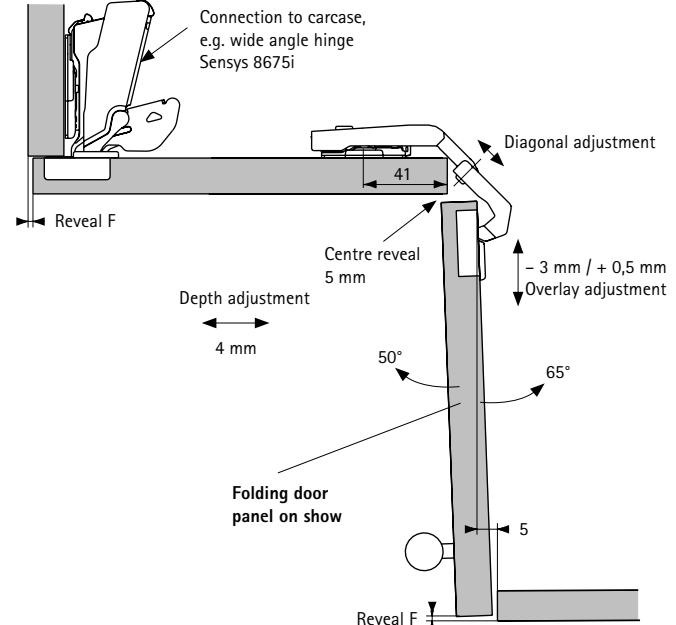
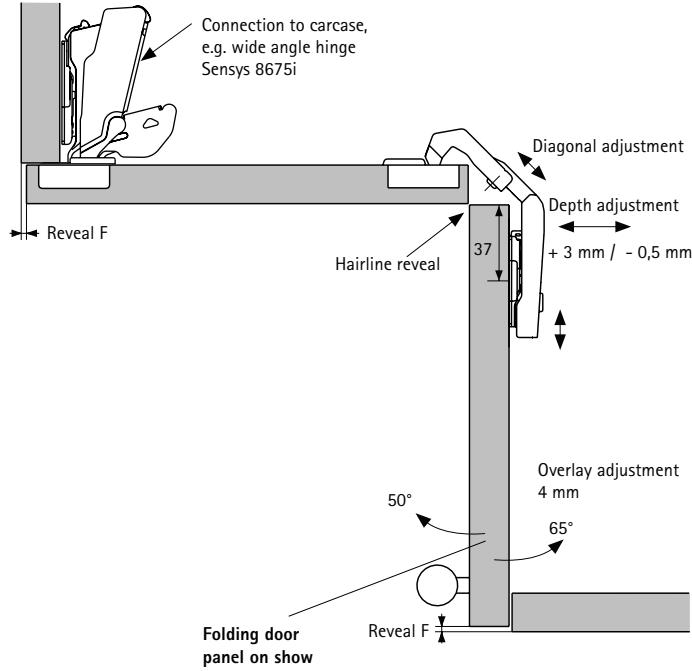
Cup distances other than these can be evened out by depth and diagonal adjustment.

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

Cup distances other than these can be evened out by depth and diagonal adjustment.



► Advice

For mounting plates, see pages 42 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

Fast assembly concealed hinge

Hett
CAD

- Adapter for glue mounting Sensys
- 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 automatic closing function, can be used in the same way
- For glass doors
- For glass on a thickness of 3 - 7 mm
- For use with UV hardening adhesive
- Supplied without adhesive
- Material: nickel plated die cast zinc

Adapter for glue mounting Sensys

| | Cup | Full overlay | Half overlay | Inset | 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 | | 9 090 280 | 9 090 280 | 200 ea. |
| Sensys 8645i B -4 mm, 110° opening angle | TH 52 | | | 9 071 207 | 200 ea. |
| Adapter (small pack, -including fixing -screws) | TH | 9 081 923 | 9 081 923 | 9 081 923 | 2 ea. |
| Adapter (large pack, 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. |

Fast assembly concealed hinge

- Adapter for glue mounting Sensys
- For Sensys

Gluing dimension K

| Gluing dimension K | A | F | D0 | D1.5 | D3 | D5 | D8 |
|--------------------|----|---|----|------|----|-----|-----|
| Inset | | 2 | | 2.5 | 4 | | |
| Full overlay / | 0 | | 3 | 4.5 | 6 | | 4 |
| Half overlay | 1 | | 4 | 5.5 | 7 | 2 | 5 |
| | 2 | | 5 | 6.5 | 8 | 3 | 6 |
| | 3 | | 6 | 7.5 | | 4 | 7 |
| | 4 | | 7 | | | 5 | 8 |
| | 5 | | 8 | | | 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

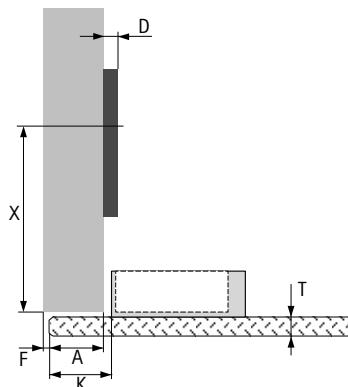
Minimum reveal per door

When dimensioning door mounting allowance must be made for a minimum reveal of 2 mm per door.
 The edges of the glass door must be bevelled:
 - at least 1 mm
 - max. gluing dimension K - 1 mm

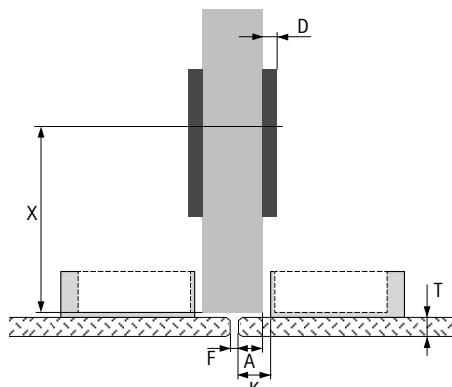

 Sensys 8645i or 8631i
 Sensys 8631i
 Sensys 8657i

* When using the opening angle limiter at 120°

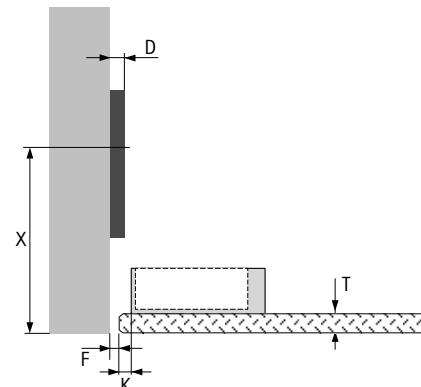
Full overlay



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 on all markets

** Distance for front hole 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 advice 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 pages 42 - 47

For accessories, see pages 48 - 49

For technical information, see pages 50 - 58

For example applications, see page 51

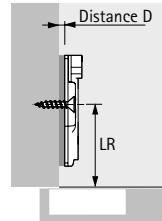
Fast assembly concealed hinge

Hett
CAD

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

Screw on cross mounting plate

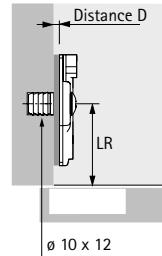
- For $\varnothing 4.5 \times 16$ mm countersunk wood screws
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Oblong hole height adjustment ± 3 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|------------------|---------|
| 28 | 37 | | |
| 0.0 | 9 071 570 | 9 071 575 | 200 ea. |
| 1.5 | 9 071 571 | 9 071 576 | 200 ea. |
| 3.0 | 9 071 572 | 9 071 577 | 200 ea. |
| 5.0 | 9 071 573 | 9 071 578 | 200 ea. |

Press in cross mounting plate

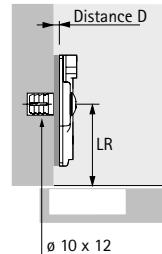
- For $\varnothing 10 \times 12$ mm holes
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Oblong hole height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|------------------|---------|
| 28 | 37 | | |
| 0.0 | 9 071 610 | 9 071 615 | 200 ea. |
| 1.5 | 9 071 611 | 9 071 616 | 200 ea. |
| 3.0 | 9 071 612 | 9 071 617 | 200 ea. |
| 5.0 | 9 071 613 | 9 071 618 | 200 ea. |

Cross mounting plate with expanding sockets and special screws

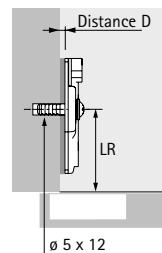
- For $\varnothing 10 \times 12$ mm holes
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Oblong hole height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|------------------|---------|
| 28 | 37 | | |
| 0.0 | 9 071 600 | 9 071 605 | 200 ea. |
| 1.5 | 9 071 601 | 9 071 606 | 200 ea. |
| 3.0 | 9 071 602 | 9 071 607 | 200 ea. |
| 5.0 | 9 071 603 | 9 071 608 | 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
- Oblong hole height adjustment ± 2.5 mm
- Steel, nickel plated



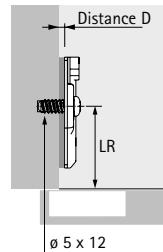
| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|------------------|---------|
| | 37 | | |
| 0 | | 9 071 595 | 200 ea. |
| 1.5 | | 9 071 596 | 200 ea. |
| 3.0 | | 9 071 597 | 200 ea. |
| 5.0 | | 9 071 598 | 200 ea. |

Fast assembly concealed hinge

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

Cross mounting plate with premounted Euro screws

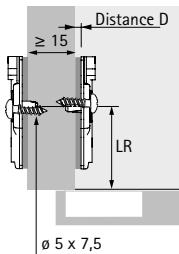
- For $\varnothing 5 \times 12$ mm holes
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Oblong hole height adjustment ± 3 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|-----------|---------|
| | 28 | 37 | |
| 0.0 | 9 071 620 | 9 071 625 | 200 ea. |
| 1.5 | 9 071 621 | 9 071 626 | 200 ea. |
| 3.0 | 9 071 622 | 9 071 627 | 200 ea. |
| 5.0 | 9 071 623 | 9 071 628 | 200 ea. |

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

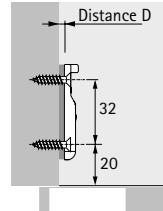
- For $\varnothing 5 \times 7.5$ mm holes
- Quality classification under EN 15570, Level 2
- Hole spacing 32 mm
- Half overlay door, from 15 mm side panel thickness
- Oblong hole height adjustment ± 2.5 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|-----------|---------|
| | 37 | 37 | |
| 0.0 | | 9 071 585 | 200 ea. |
| 1.5 | | 9 071 586 | 200 ea. |
| 3.0 | | 9 071 587 | 200 ea. |
| 5.0 | | 9 071 588 | 200 ea. |

Screw on linear mounting plate

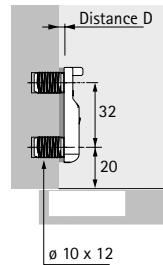
- For $\varnothing 3.5 \times 16$ mm countersunk wood screws
- Quality classification under EN 15570, Level 3
- Oblong hole height adjustment ± 1.6 mm
- Die cast zinc, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|-----------|---------|
| | 20 x 32 | 20 x 32 | |
| 0.5 | | 9 084 993 | 200 ea. |
| 3.0 | | 9 084 994 | 200 ea. |

Press in linear mounting plate

- For $\varnothing 10 \times 12$ mm hole
- Quality classification under EN 15570, Level 3
- Oblong hole height adjustment ± 1.6 mm
- Die cast zinc, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|-----------|---------|
| | 20 x 32 | 20 x 32 | |
| 0.5 | | 9 084 991 | 200 ea. |
| 3.0 | | 9 084 992 | 200 ea. |

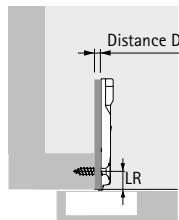
Fast assembly concealed hinge

Hett
CAD

- System 8000 mounting plates with oblong hole height adjustment capability
- For Sensys

System 8000 screw on face frame mounting plate

- For ø 4 x 20 mm countersunk wood screws
- Quality classification under EN 15570, Level 3
- Hole spacing 40 mm
- Oblong hole height adjustment \pm 2 mm
- Can only be used with Sensys hinges
- Die cast zinc, nickel plated



| Distance D mm | Hole line distance LR mm | PU |
|---------------|--------------------------|---------|
| 0.0 | 9.5 | 200 ea. |
| 1.5 | 9 084 930 | 200 ea. |
| 4.5 | 9 085 598 | 200 ea. |
| | 9 084 931 | |

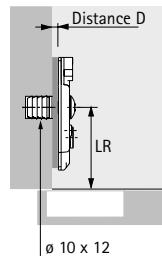


System 8099 mounting plates with cam height adjustment capability

► For Sensys and Intermat

Press in cross mounting plate

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

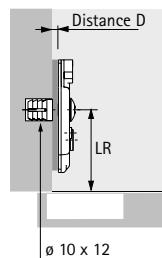


| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | 37 | |
| 0.0 | 9 071 680 | 200 ea. | |
| 1.5 | 9 071 681 | 200 ea. | |
| 3.0 | 9 071 682 | 200 ea. | |
| 5.0 | 9 071 683 | 200 ea. | |



Cross mounting plate with expanding sockets and special screws

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

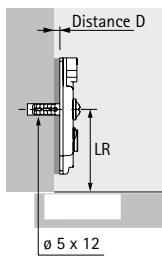


| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | 37 | |
| 0.0 | 9 071 660 | 200 ea. | |
| 1.5 | 9 071 661 | 200 ea. | |
| 3.0 | 9 071 662 | 200 ea. | |
| 5.0 | 9 071 663 | 200 ea. | |



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
- Cam height adjustment ± 2 mm
- Steel, nickel plated

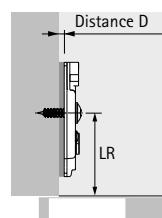


| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | 37 | |
| 0.0 | 9 071 655 | 200 ea. | |
| 1.5 | 9 071 656 | 200 ea. | |
| 3.0 | 9 071 657 | 200 ea. | |
| 5.0 | 9 071 658 | 200 ea. | |



Cross mounting plate with premounted chipboard screws

- For holes with max. $\varnothing 2.5$ mm
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Cam height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | 37 | |
| 0.0 | 9 071 670 | 200 ea. | |
| 1.5 | 9 071 671 | 200 ea. | |
| 3.0 | 9 071 672 | 200 ea. | |
| 5.0 | 9 071 673 | 200 ea. | |



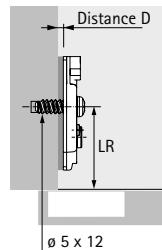
Fast assembly concealed hinge

System 8099 mounting plates with cam height adjustment capability

► For Sensys and Intermat

Cross mounting plate with premounted Euro screws

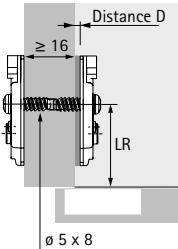
- For $\varnothing 5 \times 12$ mm holes
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Cam height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | | |
| 0.0 | 9 071 665 | 200 ea. | |
| 1.5 | 9 071 666 | 200 ea. | |
| 3.0 | 9 071 667 | 200 ea. | |
| 5.0 | 9 071 668 | 200 ea. | |

Cross mounting plate with premounted Euro screws

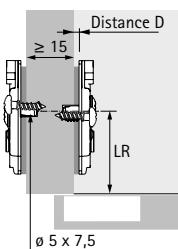
- For $\varnothing 5 \times 8$ mm holes
- Quality classification under EN 15570, Level 3
- Hole spacing 32 mm
- Half overlay door, from 16 mm side panel thickness
- Cam height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | | |
| 0.0 | 9 071 645 | 200 ea. | |
| 1.5 | 9 071 646 | 200 ea. | |
| 3.0 | 9 071 647 | 200 ea. | |
| 5.0 | 9 071 648 | 200 ea. | |

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

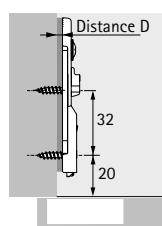
- For $\varnothing 5 \times 7.5$ mm holes
- Quality classification under EN 15570, Level 2
- Hole spacing 32 mm
- Half overlay door, from 15 mm side panel thickness
- Cam height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 37 | | |
| 0.0 | 9 071 650 | 200 ea. | |
| 1.5 | 9 071 651 | 200 ea. | |
| 3.0 | 9 071 652 | 200 ea. | |
| 5.0 | 9 071 653 | 200 ea. | |

Screw on linear mounting plate

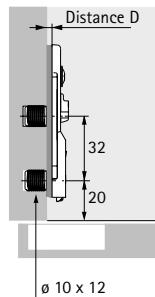
- For $\varnothing 3.5 \times 16$ mm countersunk wood screws
- Quality classification under EN 15570, Level 3
- Cam height adjustment ± 2 mm
- Steel, nickel plated



| Distance D mm | Hole line distance LR mm | | PU |
|---------------|--------------------------|---------|----|
| | 20 x 32 | | |
| 1.5 | 9 071 687 | 200 ea. | |
| 3.0 | 9 071 688 | 200 ea. | |
| 5.0 | 9 071 689 | 200 ea. | |

Press in linear mounting plate

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

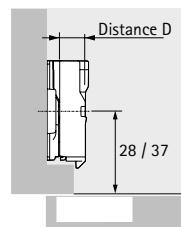


| Distance D mm | Hole line distance LR mm | PU | |
|---------------|--------------------------|------------------|---------|
| | | 20 x 32 | |
| 1.5 | | 9 071 697 | 200 ea. |
| 3.0 | | 9 071 698 | 200 ea. |
| 5.0 | | 9 071 699 | 200 ea. |

- Sensys
- Accessories

Parallel adapter for cross mounting plates

- For increasing the mounting plate distance by a maximum of 22 mm
- Including fixing screw
- A trial door mounting is recommended
- Die cast zinc, nickel plated

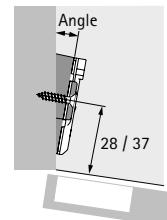


| Distance D mm | Order no. | PU |
|---------------|-----------|---------|
| 8.0 | 9 072 231 | 200 ea. |
| 12.0 | 9 072 232 | 200 ea. |
| 22.0 | 9 072 233 | 200 ea. |

Can only be used with Intermat System 9000 cross mounting plates with oblong hole height adjustment, see page Intermat catalogue ([www.hettich.com / service / media library](http://www.hettich.com/service/media-library))

Angle adapter for cross mounting plates

- For producing angled mounting options
- 5° angle adapter can be stacked on the other angle adapters
- A trial door mounting is recommended
- Die cast zinc, nickel plated



| Angle ° | Order no. | PU |
|---------|-----------|---------|
| 5 | 9 072 214 | 200 ea. |
| 10 | 9 072 215 | 200 ea. |
| 15 | 9 072 216 | 200 ea. |
| 20 | 9 072 217 | 200 ea. |

Can only be used with screw on cross mounting plates, see page 42; screw length is defined by the specific configuration

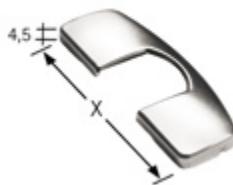
Cover cap for Sensys hinge arm



- Can be used with Sensys hinges apart from 8657i / 8657 / 8687
- Cover caps with customised imprint available on request
- Steel, nickel plated

| Type | Order no. | PU |
|----------------------------|-----------|---------|
| Embossed with Hettich logo | 9 082 774 | 200 ea. |
| Neutral | 9 082 612 | 200 ea. |

Cover cap for hinge cup

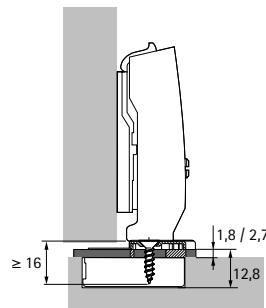


- Can be used for Sensys and Intermat 9930 with cup in Sensys design
- Steel, nickel plated

| Type | Dim. X mm | Order no. | PU |
|--|-----------|-----------|---------|
| for TH52, TH53, TH54, TH56, TS52, TS53, TS54, TS56 | 68.2 | 9 082 614 | 200 ea. |
| for TB52, TB53, TB54, TB56 | 61.4 | 9 084 924 | 200 ea. |

- ▶ Sensys
- ▶ Accessories

Adapter for reducing drilling depth



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

| Type | Thickness mm | Order no. | PU |
|----------------|--------------|-----------|---------|
| For cup TH, TS | 1.8 | 9 072 980 | 200 ea. |
| For cup TH, TS | 2.7 | 9 072 981 | 200 ea. |
| For cup TB | 1.8 | 9 072 982 | 200 ea. |
| For cup TB | 2.7 | 9 072 983 | 200 ea. |

Opening angle limiter



- ▶ For reducing the opening angle of doors to avoid collisions with adjoining elements
- ▶ This avoids damaging the front
- ▶ For assembly advice, see pages 56 - 57

| Type | Opening angle limiter | Order no. | PU |
|--|--------------------------|-----------|---------|
| 1 For Sensys 8645i / 8645 / 8675 | from 110° to 85° | 9 071 468 | 200 ea. |
| 2 For Sensys 8631i / 8631 / 8661 | from 95° to 85° | 9 100 039 | 200 ea. |
| 3 For Sensys 8657i / 8657 / 8687 | from 165° to 105° / 120° | 9 090 756 | 50 ea. |
| 4 For Sensys 8639i W / 8639 W / 8669 W | from 95° to 85° | 9 071 469 | 200 ea. |
| 5 For Sensys 8638i / 8638 / 8668 | from 95° to 85° | 9 071 470 | 200 ea. |

Aid for installing opening angle limiter



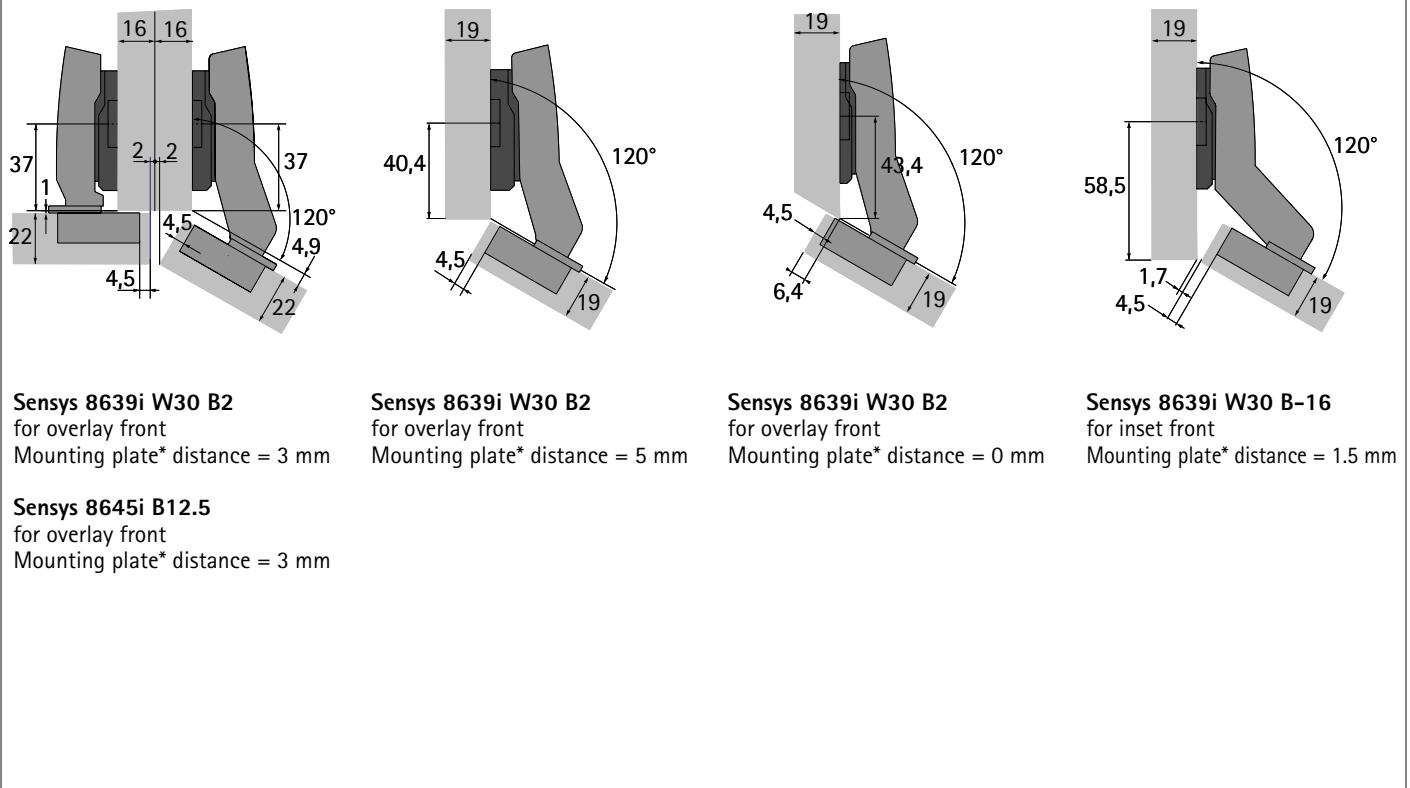
Can be used with the following opening angle limiters
 - Order no. 9 071 468 for Sensys 8645i / 8645 / 8675
 - Order no. 9 071 469 for Sensys 8639i W / 8639 W / 8669 W

| Order no. | PU |
|-----------|---------|
| 9 081 657 | 100 ea. |

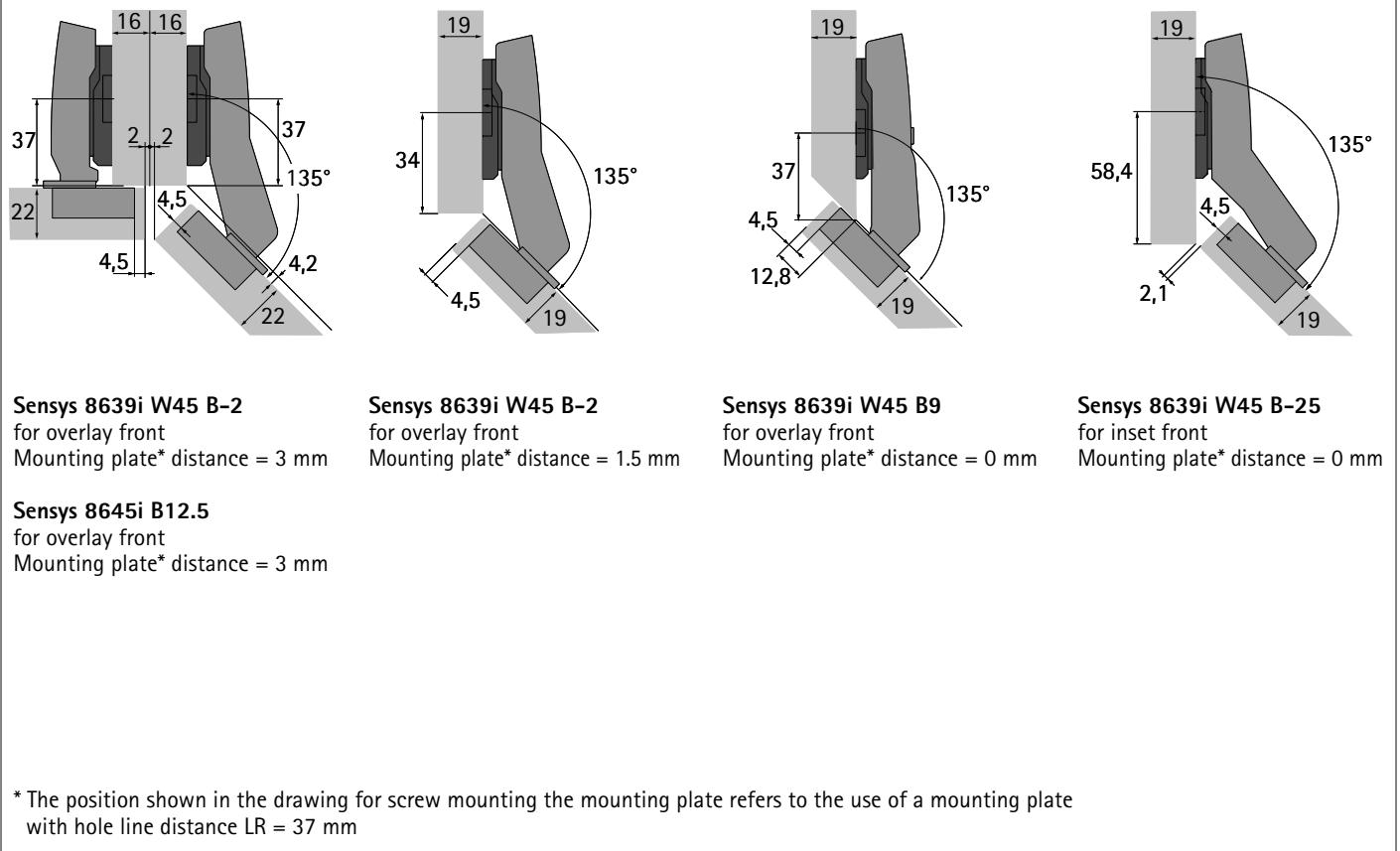
Technical information

- ▶ Sensys
- ▶ Example applications

Example applications for Sensys 8639i W30



Example applications for Sensys 8639i W45

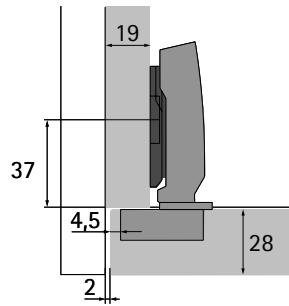


Technical information

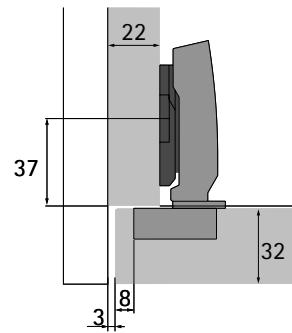
► Sensys

► Example applications

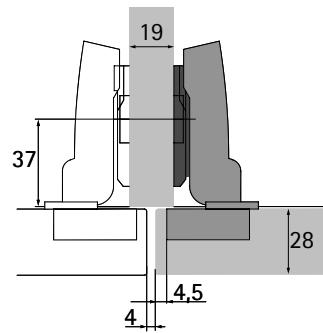
Example applications for Sensys 8631i



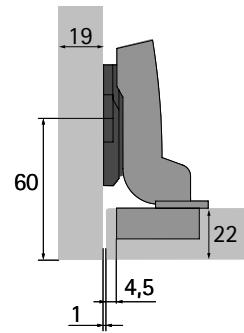
Sensys 8631i B12.5
Thick door
for full overlay front
Mounting plate* distance = 0 mm



Sensys 8631i B12.5
Thick door
for full overlay front
Mounting plate* distance = 1.5 mm



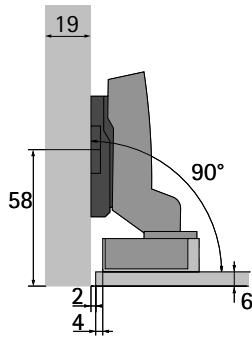
Sensys 8631i B3
Thick door
for half overlay front
Mounting plate* distance = 0 mm



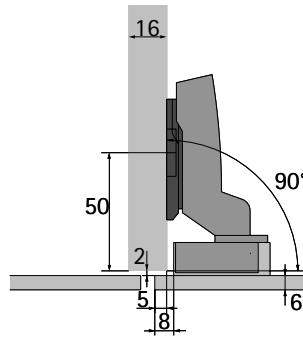
Sensys 8631i B-4
Thick door
for inset front
Mounting plate* distance = 1.5 mm

* The position shown in the drawing for screw mounting the mounting plate refers to the use of a mounting plate with hole line distance LR = 37 mm

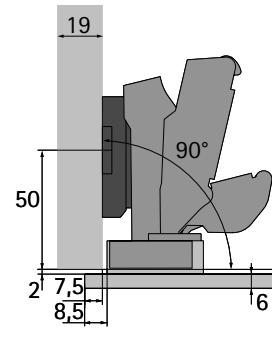
Example applications for adapter for glue mounting Sensys



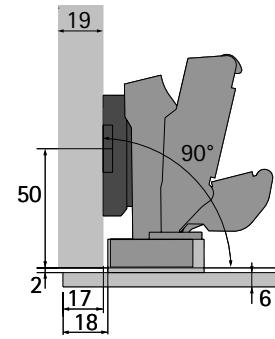
Sensys 8645i B-4 / 8631i B-4
with adapter for glue mounting
Sensys
for inset front
Mounting plate* distance = 3 mm



Sensys 8631i B-4
with adapter for glue mounting
Sensys
for half overlay front
Mounting plate* distance = 0 mm



Sensys 8657i B3
with adapter for glue mounting
Sensys
for half overlay front
Mounting plate* distance = 5 mm
120° opening angle limiter



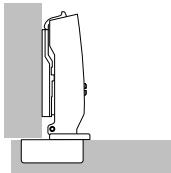
Sensys 8657i B3
with adapter for glue mounting
Sensys
for full overlay front
Mounting plate* distance = 5 mm
120° opening angle limiter

* The position shown in the drawing for screw mounting the mounting plate refers to the use of a mounting plate with hole line distance LR = 37 mm

Technical information

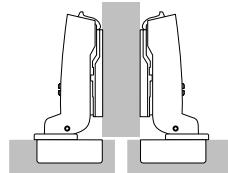
- Sensys
- Fitting information

Full overlay door



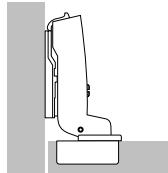
The door is in front of the carcase side and only a small gap remains at the side within which the door can open reliably. Alternatively, the door can also be overlaid fully, in which case sufficient space must be allowed at the side for the required minimum reveal. Straight hinges are used.

Half overlay door



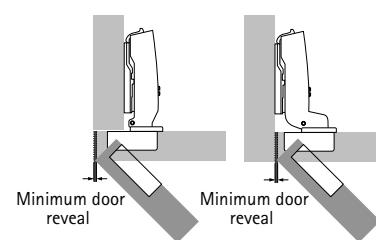
This is where two doors are positioned in front of a cabinet centre panel. With the required overall reveal between them (at least 2 x minimum reveal). In other words, each door has a smaller overlay and cranked hinges are therefore used.

Inset door



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

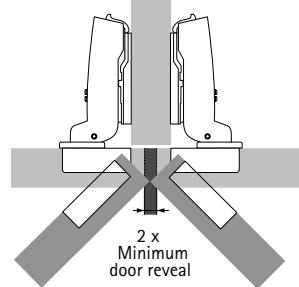
Minimum reveal



For overlay and inset door

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

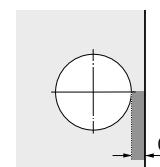
Minimum reveal



For half-overlay doors

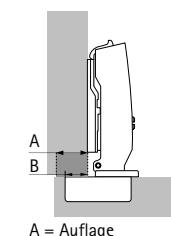
The total reveal selected between the doors must be at least twice the door clearance. Both doors can then be opened at the same time.

Cup distance C



Cup distance C is the distance between 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 / Basis

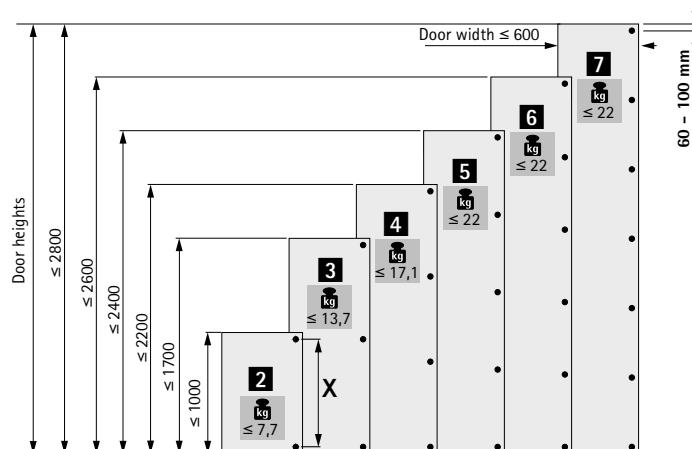


Overlay refers to the projection of the door in front of the carcase side. Basis refers to the projection of the cup in front of the carcase side for a mounting plate distance of 0 mm.

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 door mounting and adjust the number of hinges as necessary. For reasons of stability, space X between the hinges must always be made as large as possible. Distance X must be at least 280 mm.



Technical information

- Sensys
- Fitting information

General calculation of distances

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

Before determining the required distance, check whether the desired

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

Calculating distances

For overlay and half overlay doors

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

Example: Determine distance from table

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

Example: Distance determined according to calculation formula

Hinge for overlay door, basis B = 12.5 mm

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

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

Intermediate distances, which are not available as mounting-plate distance, 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 | |

Calculating distances

For inset doors

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

Example: Determining distance from table

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

Example: Using calculation formula to determine distance

Hinge for inset application, basis B = -4 mm

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

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

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

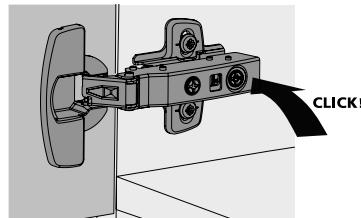
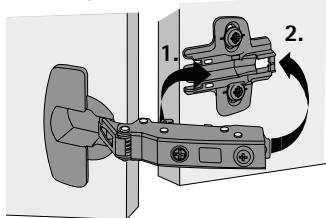
| Door thickness mm | Cup distance C mm | | | | | |
|----------------------|-------------------|-----|-----|-----|-----|-----|
| | 3,0 | 4,0 | 4,5 | 5,0 | 6,0 | 7,0 |
| Distance D mm | | | | | | |
| 15 | | | 0,2 | 0,7 | 1,2 | 2,2 |
| 16 | | | 0,3 | 0,8 | 1,3 | 2,3 |
| 17 | | | 0,4 | 0,9 | 1,4 | 2,4 |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

Technical information

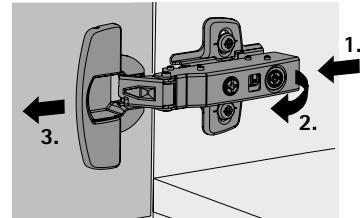
- ▶ Sensys
- ▶ Installation advice

Clip on hinge arm

Assembly

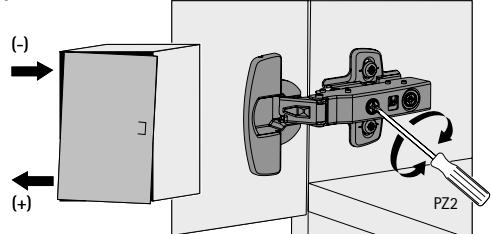


Removal

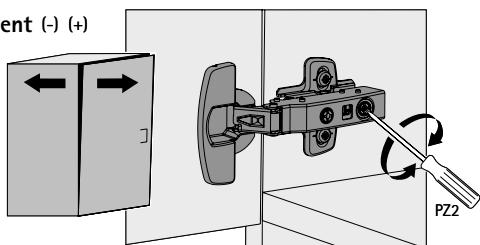


Adjustment

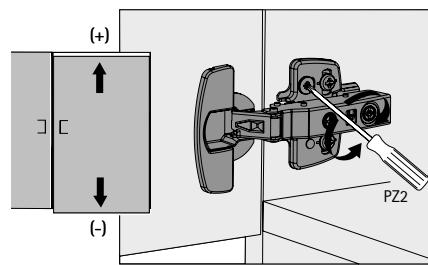
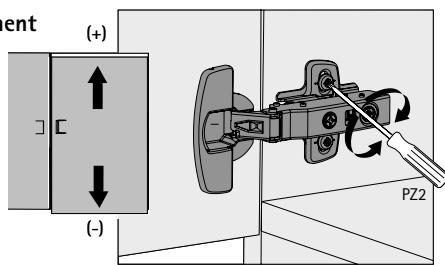
Overlay adjustment



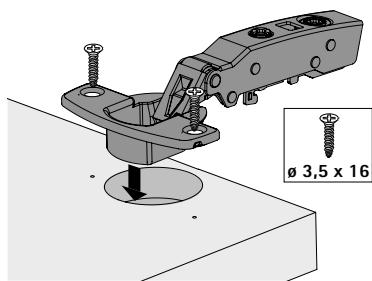
Depth adjustment (-) (+)



Height adjustment



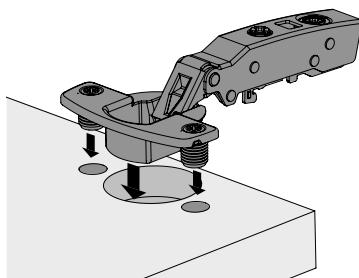
Screw on cup mounting method



Technical information

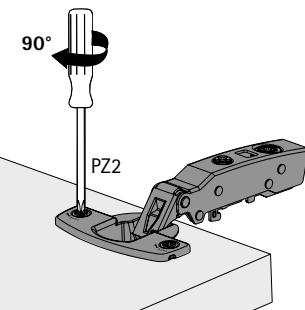
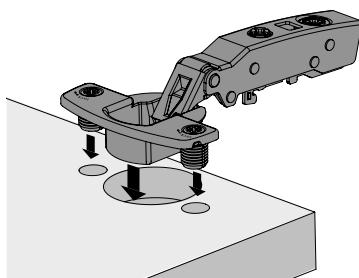
- ▶ Sensys
- ▶ Installation advice

Press in cup mounting method

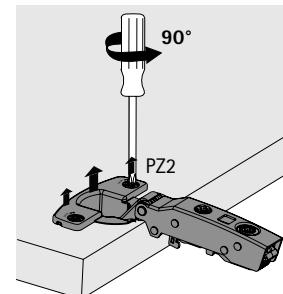


Flash fast installation method

Installation

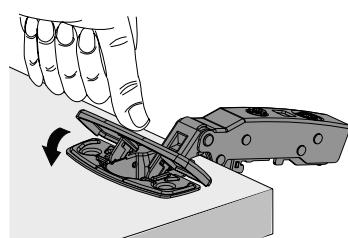
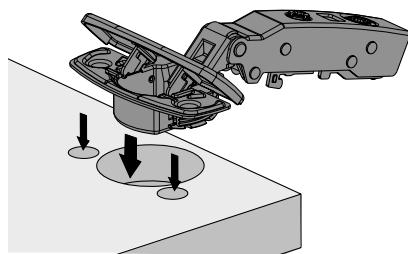


Removal

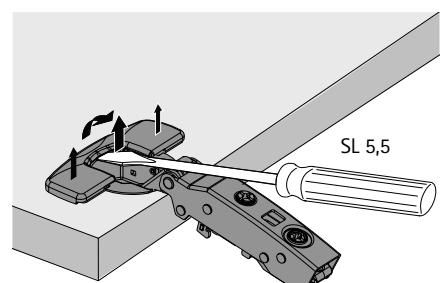


Fix tool-less fast assembly method

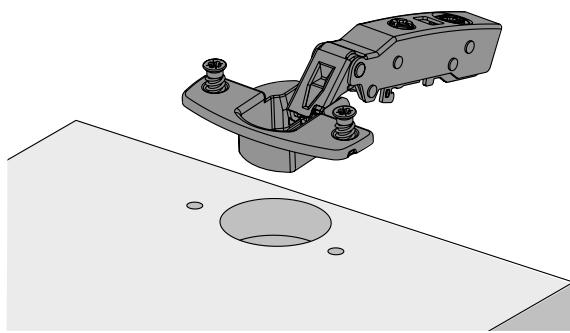
Installation



Removal



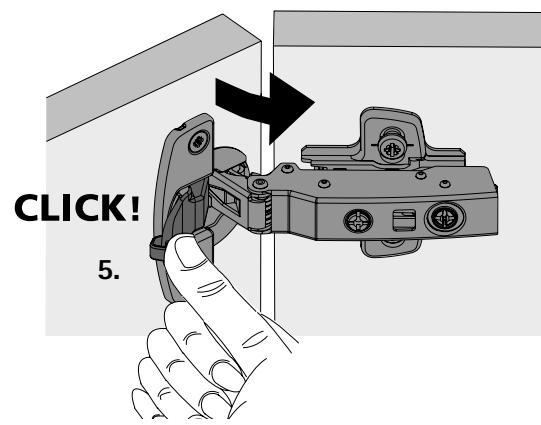
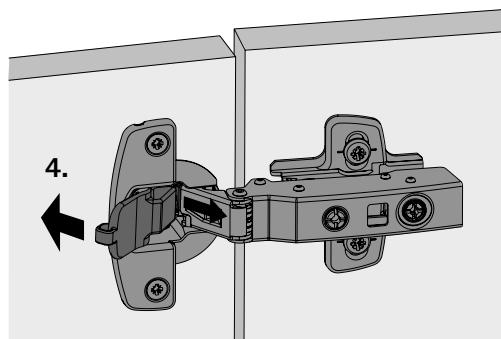
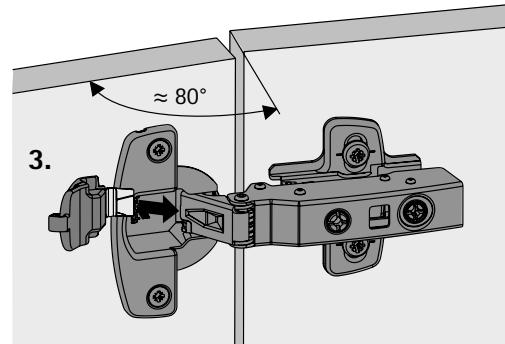
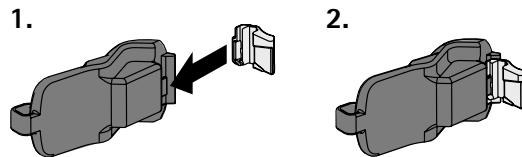
Premounted Euro screw installation method



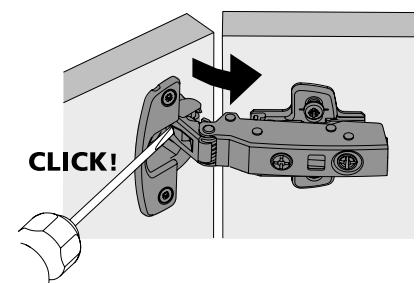
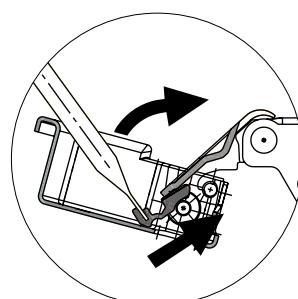
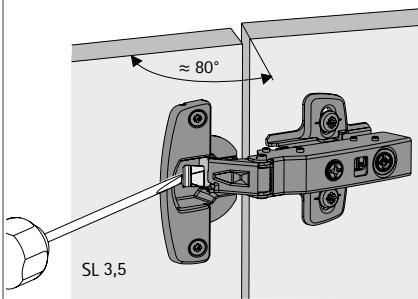
Technical information

- ▶ **Sensys**
- ▶ **Installation advice**

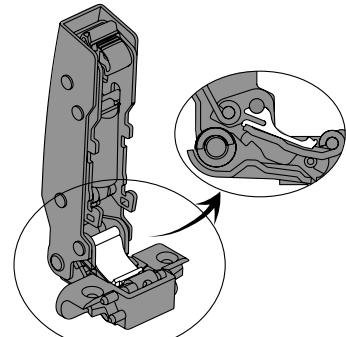
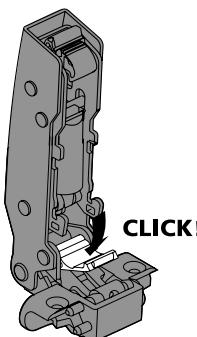
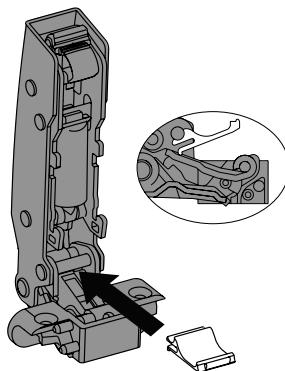
Using installation aid for mounting opening angle limiter for Sensys 8645i, 8639i W



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



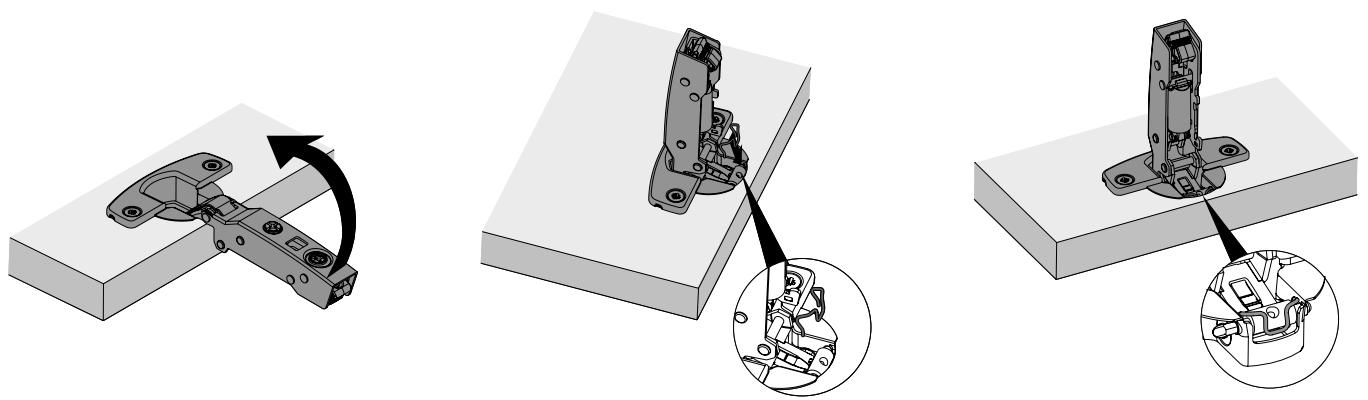
Mounting the opening angle limiter for Sensys 8638i aluminium framed doors



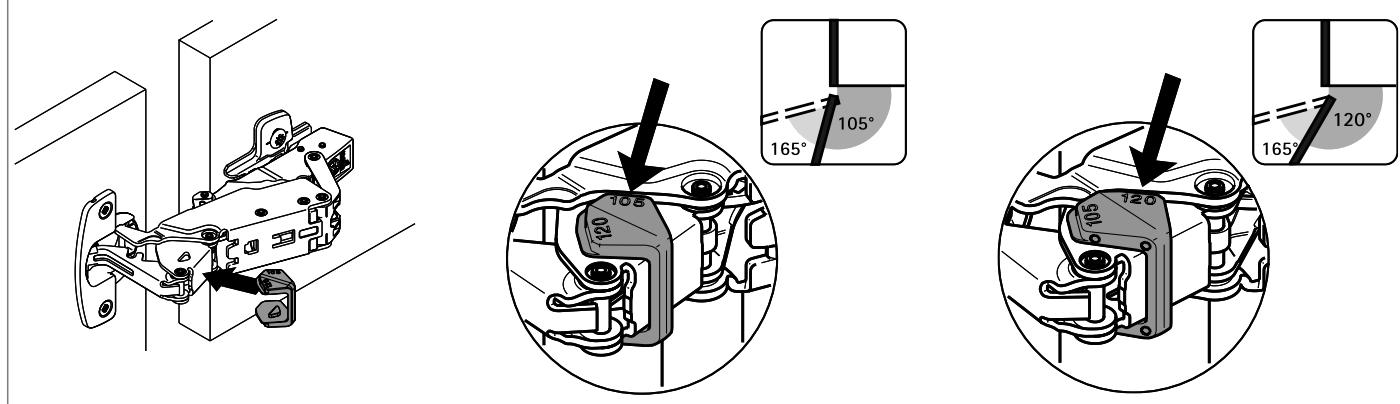
Technical information

- ▶ **Sensys**
- ▶ **Installation advice**

Mounting opening angle limiter for thick door hinge 8631i



Mounting opening angle limiter for wide angle hinge 8657i



Quality criteria: concealed hinges

Quality that meets all the demands

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

Application

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

Loading 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

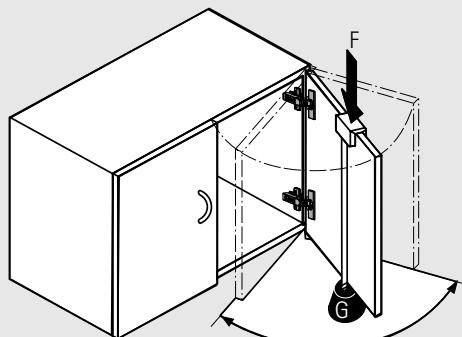
Hettich hinges satisfy the corrosion requirements under EN ISO 9227-2012 in accordance with the 48 h neutral salt spray test (NSS) as well as DIN EN ISO 6270-2-2012 in accordance with the 96 h alternating condensation water climate test with alternating humidity and air temperature (AHT).

Quality assurance

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

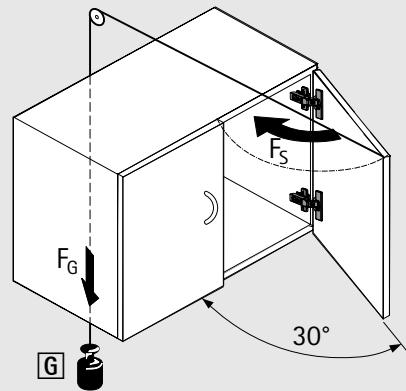
Endurance test

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



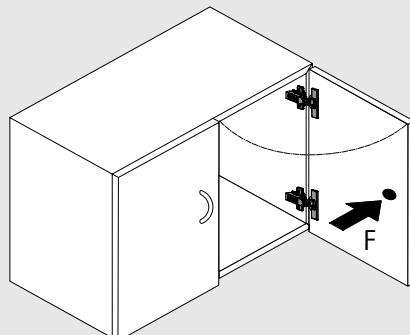
Closing test

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



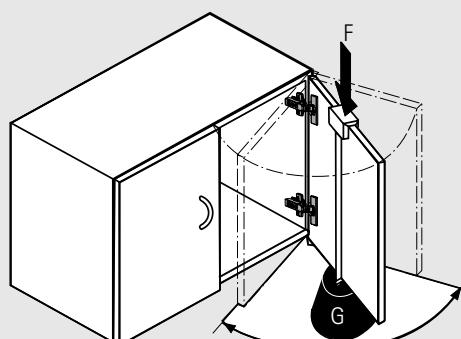
Horizontal test

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

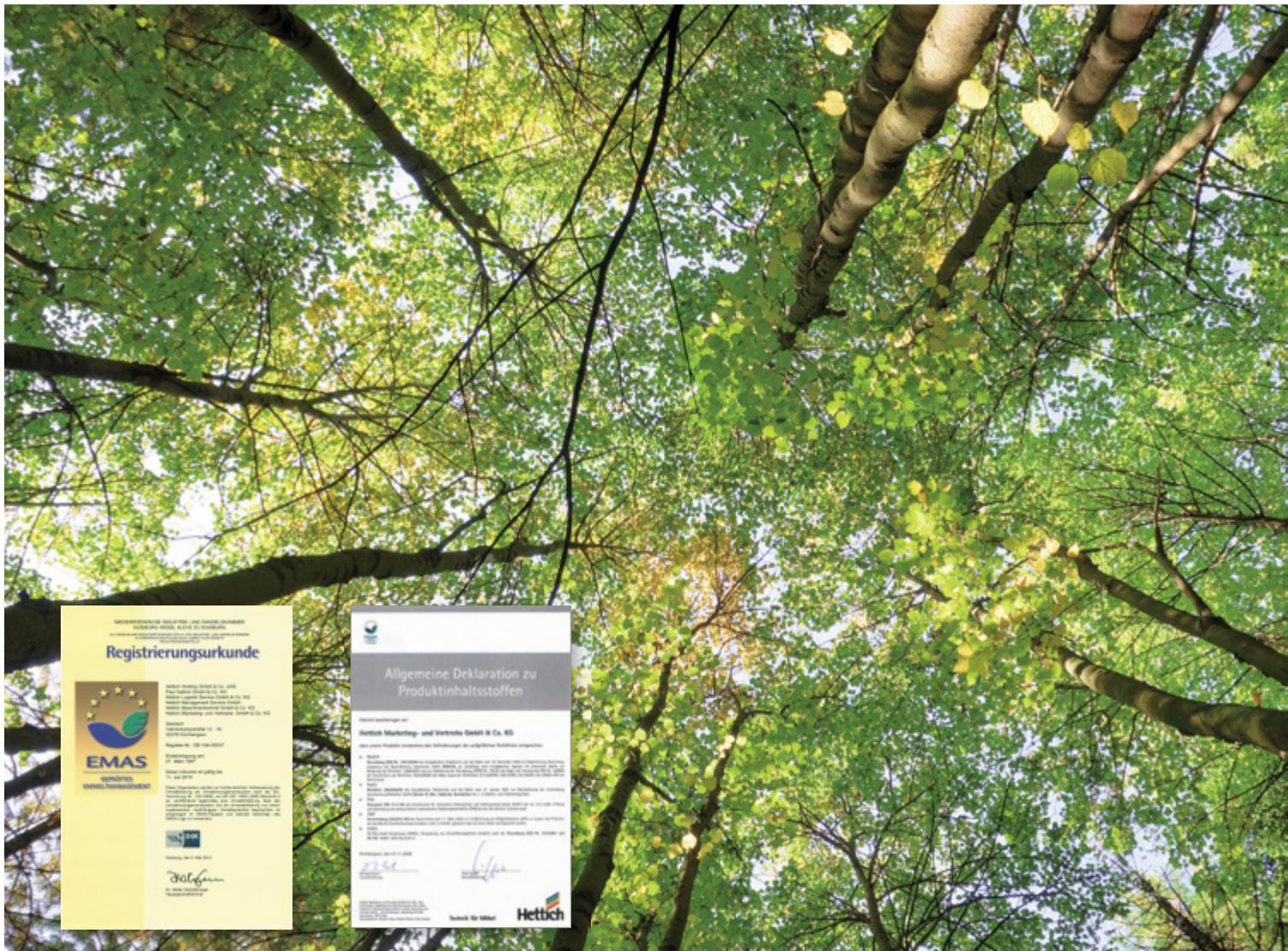


Vertical test

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



Hettich and the environment: committed to responsible practice, active protection, innovative thinking.



Hettich accepts responsibility for the world we live in. This awareness defines the strict policy of environmental management we practise. Our environmental officer has taken personal responsibility for these aspects throughout the group of companies over a period of many years. In addition, a separate environment committee has been established for each production site. We regard statutory provisions as minimum requirements. At significant sites we also implement the stringent EMAS Regulation. And we drive forward developments that in future will help to save even more raw materials and support the necessary endeavours towards sustainability.

Hettich standard for product materials

Hettich underpins its commitment by applying an internal standard for product materials. This ensures that every product – from production to disposal – satisfies all environmental requirements. Hettich products are durable. Appropriately foresighted, our rigorous standards are formulated to ensure that international legislation is met as well. This provides a reliable basis for marketing furniture worldwide.

Hettich environmental management

In 1996 Hettich started introducing effective environmental management systems under the stringent EMAS Regulation (currently: EC Regulation No. 761/2001, including EN ISO 14.001/2004). This not only enables us to improve our environmental performance on a broad front but also achieve a high level of safety which, not least, also benefits our customers. This is why we also require our suppliers to meet the necessary minimum standards of environmental protection, industrial safety, health care and social welfare.

The results achieved in the drawer runner and drawer system product segment at the Kirchlengern operation illustrate the impressive effects these measures have and verifiably demonstrate our tireless endeavours to translate words into action:

Relief to the environment between 1997 and 2008:

| | |
|-------------------------------------|-------------|
| Specific water consumption: | 56 per cent |
| Specific power consumption: | 21 per cent |
| Specific heat consumption: | 84 per cent |
| Specific CO ₂ emissions: | 29 per cent |

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