

# Fast assembly concealed hinge

- ▶ Intermat 9943
- ▶ Opening angle 110°



- ▶ Concealed hinge with clip on assembly
- ▶ Quality grades to EN 15570, Level 3
- ▶ For door thickness 15 - 25 mm
- ▶ Cup diameter 35 mm
- ▶ Cup depth 11.6 mm
- ▶ Integrated overlay adjustment + 1 mm / - 2.5 mm
- ▶ Integrated depth adjustment 4 mm
- ▶ Height adjustment at mounting plate
- ▶ Material of hinge arm: Steel, nickel-plated
- ▶ Material of hinge cup: Steel, nickel-plated

## Intermat 9943, opening angle 110°

Cup assembly	Drilling pattern	Overlay	Half overlay	Inset
		Basis B 12.5 mm (Cranking 0 mm)	Basis B 3 mm (Cranking 9.5 mm)	Basis B - 3.5 mm (Cranking 16 mm)
Screw on type TH 42		1 029 518	1 030 620	1 030 922
Press in type TH 43		1 029 520 *	1 030 622 *	1 030 924 *
Flash fast assembly TH 44		1 031 071	1 031 072	1 039 054
Fix fast assembly TH 45		1 063 454	1 063 457	1 063 459
Press in type TB 43		1 029 522	1 030 921	1 030 925
Fix fast assembly TB 45		1 063 453	1 063 456	1 063 458

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## Minimum reveal per door

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

Please note:

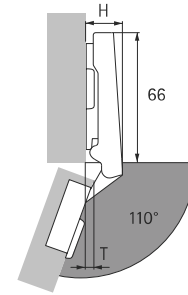
The values in the table refer to doors with an edge radius of 1 mm.

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 + 0.8 mm

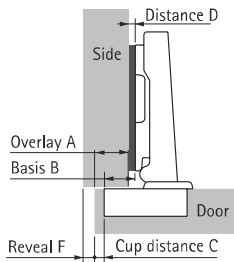
## Protrusions / installation depth



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

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

## Overlay

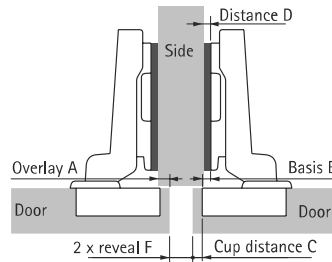


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

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

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

## Half overlay

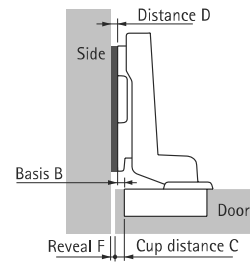


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

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

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

## Inset



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

$$= \text{cup distance C} - 3.5 \text{ mm} + \text{reveal F}$$

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

## ▶ Advice

For mounting plates and accessories, see page 64 – 67, 122 – 128  
 For optional Silent System and Push to open opening system, see page 130 – 131, 140 – 141  
 For mounting solutions, technical information, assembly notes and quality criteria, see page 178 – 186, 209