

Concealed hinges



# Concealed hinges

Function and design for perfecting motion

[blum.com](http://blum.com)

Perfecting motion  **blum**<sup>®</sup>



# Elegant design and superior function

Blum hinges are designed to address the needs of today's kitchen. Our hinges offer solutions for virtually any application. In combination with BLUMOTION, our hinges close doors silent and effortlessly.



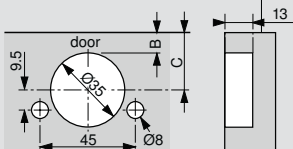
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# Quick reference

## Hinge cup centerpoint



C = cup centerpoint

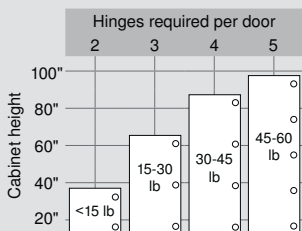
20.5	21.5	22.5	23.5	24.5	25.5
13/16"	27/32"	7/8"	15/16"	31/32"	1"
3	4	5	6	7	8

B = bore distance

## Conversion chart

mm	inch	
1	1/32	.031
1.5	1/16	.063
2	3/32	.094
3	1/8	.125
4	5/32	.156
5	3/16	.188
5.5	7/32	.219
6	1/4	.25
7	9/32	.281
8	5/16	.313
9	11/32	.344
9.5	3/8	.375
10	13/32	.406
11	7/16	.438
12	15/32	.469
13	1/2	.5
13.5	17/32	.531
14	9/16	.563
15	19/32	.594
16	5/8	.625
17	21/32	.656
17.5	11/16	.688
18	23/32	.719
19	3/4	.75
20	25/32	.781
20.5	13/16	.813
21	27/32	.844
22	7/8	.875
23	29/32	.906
24	15/16	.938
24.5	31/32	.969
25.4	1	1

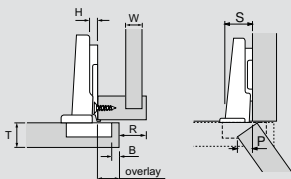
## Hinges per door



This chart can serve as a guide for determining the number of hinges per door. Note that door weight can also determine the number of hinges required.

**NOTE:** The distance between the top and bottom hinges must be greater than the width of the door

## Hinge abbreviation key



B = Boring distance

H = Plate height

P = Door protrusion

R = Reveal

S = Side arm protrusion

T = Door thickness

W = Side panel width

FD = Fixed distance

## Fixed distance (FD)

The distance that the cup overlays the cabinet side panel when a hinge is attached to a 0 mm mounting plate.

This is used to calculate hinge overlay with the formula **X + B minus H = overlay** (Fixed distance + boring distance minus plate height = overlay)





CLIP top and CLIP hinge series



Hinges for special applications



COMPACT hinges

Beautiful hinges inside





and out





# Perfecting motion for cabinet doors

The comprehensive Blum hinge program has the right solution for every application. All products are designed to be of the highest quality and function, durable and easy to assemble. With an attractive design, Blum hinges prove that even the inside of cabinets can be attractive and eye catching.



### Assembly

Blum hinges are characterized by their easy installation. Both CLIP top and CLIP are equipped with the proven CLIP technology enabling the tool-free attachment and removal of doors.





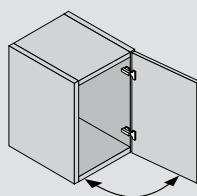
All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

## Cycle test



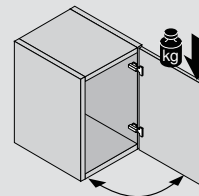
### Without load

- 200,000 opening and closing cycles for Euro hinges
- 100,000 opening and closing for CLIP mini and all COMPACT hinges



### With load

- 11 lb extra weight is applied for 100,000 opening and closing cycles

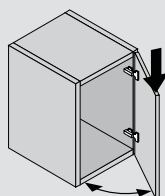


## Load test



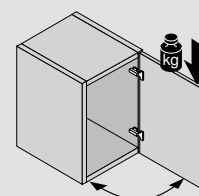
### Static load

- 67 lb applied ten times for five seconds, each at 45° opening angle



### Dynamic load

- 44 lb extra weight applied for fifty opening and closing cycles

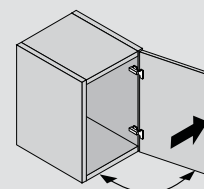


## Over push test



### Without load

- Euro hinges — Increasing forces up to 33 lb applied for a total of forty times for five seconds each
- COMPACT hinges — Increasing forces up to 11 lb applied for a total of five times for five seconds each



## General information

All Blum hardware undergoes strict quality control procedures through all stages of production. Blum hardware is designed for cabinets and cabinet components made from wood, melamine or MDF. Careful attention must be paid to installation and operating instructions when using Blum hardware (see catalogs and instruction sheets for all technical information). The manufacturer must decide on the screws or attachment methods to suit the material being used (i.e. wood, melamine, etc.). The hardware must not be exposed to acidic or corrosive materials (i.e. some household cleaning solutions). To ensure that Blum hardware functions correctly, it must be kept clean and undamaged. For any additional information please contact your Blum representative. Anyone selling Blum hardware must ensure that their customer is aware of any relevant information given in this catalog.

### Conditions of sale and delivery

All deliveries and services are based on the "general conditions of sale" which are available upon request. The technical presentations and dimensions in illustrations are non-binding. We reserve the right to make changes to specifications at any time. We do not accept any responsibility for any errors which may occur in the production of this catalog.







# Euro hinges for every application

**CLIP top** — Blum's premium Euro hinge with exclusive Spiral Tech depth adjustment

**CLIP** — The industry standard for tool-free attachment since 1985

- Audible "CLIP" sound confirms the secure connection between hinge and plate
- BLUMOTION soft close available
- Available with INSERTA tool-free attachment and removal
- Mounting plates for face frame and panel cabinets
- Three-dimensional adjustments for precise door alignment
- A complete angled hinge program
- Special hinges available for thick, aluminum and glass doors
- Nickel-plated steel construction
- CLIP top BLUMOTION with integrated soft close is also available



### Hinge planning tools

Blum has downloadable Excel® spreadsheets that help determine the hinge that is right for your application. Available at [blum.com/us/planning](http://blum.com/us/planning)





## CLIP top and CLIP hinges



### INSERTA tool-free assembly

Blum offers tool-free attachment of hinge to door and plate to cabinet with INSERTA hinges and mounting plates.



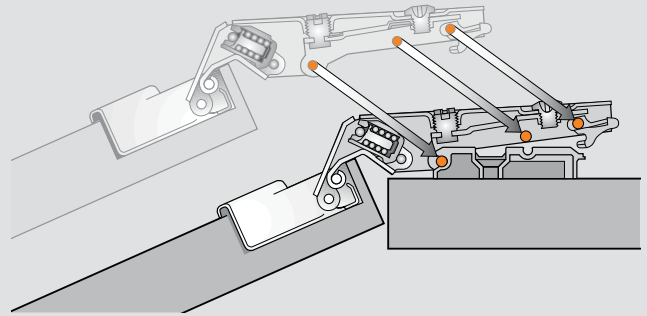
### Time proven CLIP technology

For 25 years, CLIP hinges have been preferred, throughout the world, by companies whose reputation relies on dependable door function.



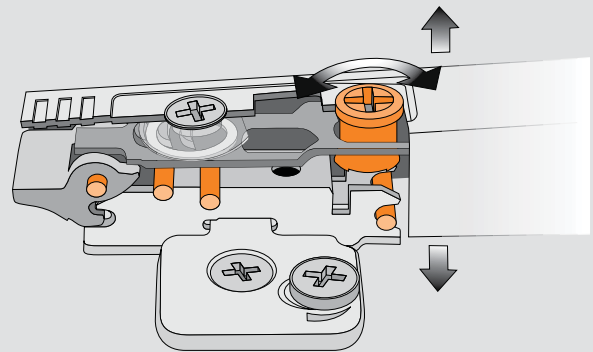
### Blum three-point contact

CLIP top and CLIP hinges have three-point contact between the hinge and mounting plate to keep them firmly connected under heavy usage.



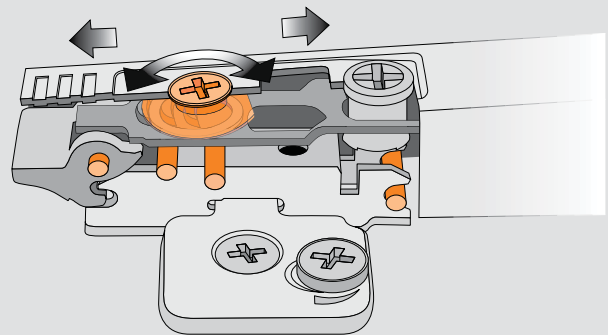
### Side adjustment

Blum's side adjustment is a flush screw head that allows 4 mm of adjustment. It also has an integral stop that prevents removal.



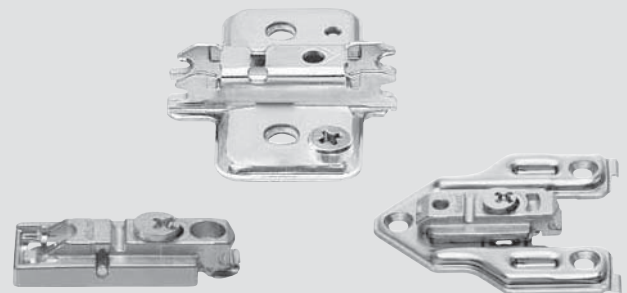
### Spiral Tech depth adjustment

With Blum's Spiral Tech depth adjustment, just one and three quarter revolutions of the screw, creates 5 mm of adjustment without loosening and retightening a fixing screw.



### Wide variety of mounting plates

Blum has mounting plates for every application, from wing plates with pre-attached screws or dowels, cam height adjustable face frame adapters, to sleek in-line mounting plates.





# Program overview — Euro hinges

CLIP top hinges		Applications			
107° hinge		107° opening angle			
					page 13
110° hinge		110° opening angle			
		Standard applications	page 14	Special applications	page 15
120° hinge		120° opening angle			
		Standard applications	page 16	Special applications	page 17
170° hinge		170° opening angle			
		Standard applications	page 18	Special applications	page 19
95° Thick door hinge		95° opening angle			
					page 20
155° zero protrusion hinge		155° opening angle			
		Standard applications	page 21	Special applications	page 22
Aluminum door hinge		120° opening angle			
					page 24
Blind corner hinge		95° opening angle			
					page 26
Diagonal 45° hinge		110° opening angle			
					page 28
Mini hinge		95° opening angle			
					page 29
Glass door hinge		95° opening angle			
					page 30
Bi-fold hinge		60° opening angle			
					page 31
Angled hinges		Angled hinges from +45° to -45°			
					page 36
CLIP hinges		Applications			
100° hinge		100° opening angle			
					page 32
107° hinge		107° opening angle			
					page 33
CLIP mounting plates		page 48	BLUMOTION for doors		page 52
			Accessories		page 34



Blum's concealed hinge brochure makes it easy to use our Euro hinges. Each page shows information for both face frame and panel applications. The top row shows the hinge in a face frame cabinet and the center row shows it in a panel cabinet. The bottom holds the overlay/reveal tables and hinge part numbers.

## Minimum reveal

To determine the minimum reveal, use the table in the upper right hand corner of each page

## Face frame construction

To use Euro hinges in a face frame cabinet use the top row.

## Panel construction

To use Euro hinges in a panel cabinet use the center row.

## Overlay and reveal tables

To determine the overlay and reveals, use the tables at the bottom of each column.

## Select hinge

Select the appropriate hinge from the bottom of each column. Screw-on, press-in, EXPANDO and INSERTA are available for most hinges.

**Features**

- 107° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated

	3	4	5	6
3	0.6	1.0	1.3	1.7
4	0.6	1.0	1.3	1.6
5	0.6	1.0	1.2	1.5
6	0.6	1.0	1.2	1.4

B = boring dist.  
T = door thickness

Thickness greater than 22 trial app. recommended

**Overlay**

**Partial/twin overlay**

**Inset**

**NOTE:** For this application use a half-ported hinge and mounting plate

H	14	15	16	17	10	21
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	7	8	19	30

H	7	5	3	1	16
0	10	8	6	4	19
13	11	9	7	22	

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

	Straight-arm	Self close	Free swing	Half-ported	Self close	Full-ported	Self close
Screw-on	75T1550	74T1550.TL			75T1650		75T1750
Press-in	75T1580	74T1580.TL			75T1680		75T1780
INSERTA	75T1590B	74T1590B.TL			75T1690B		75T1790B

Step-by-step — the following example is based on a panel cabinet with an overlay

### Step 1 — Determine cabinet construction

Face frame

Panel

### Step 2 — Determine the overlay or reveal

Overlay

Partial/twin overlay

Inset

### Step 3 — Find boring distance and mounting plate height

Based on your overlay use the table to determine the mounting plate height and boring distance needed.

H	14	15	16	17	10	21
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	7	8	19	30

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

### Step 4 — Check minimum reveal table

All minimum reveal tables are based on square edge door with a 1 mm radius. A larger radius or profile door will change the minimum reveal required.

	3	4	5	6
3	0.6	1.0	1.3	1.7
4	0.6	1.0	1.3	1.6
5	0.6	1.0	1.2	1.5
6	0.6	1.0	1.2	1.4

B = boring dist.  
T = door thickness

Trail application recommended

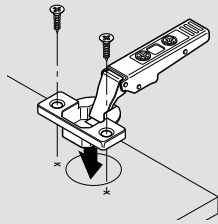


# General specifications

## Hinge-to-door attachment

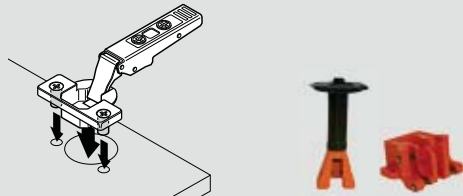
### Screw-on

Use #6 wood screws



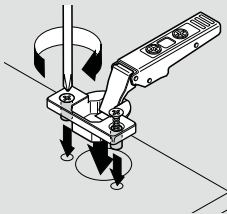
### Press-in

Pre-attached Ø8 mm dowels installed with Blum knock-in tool or MINIPRESS with universal insertion ram



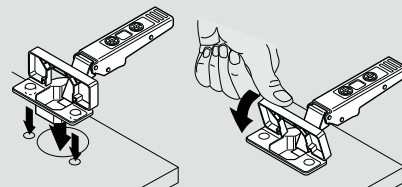
### EXPANDO

Pre-attached Ø8 mm expanding dowels



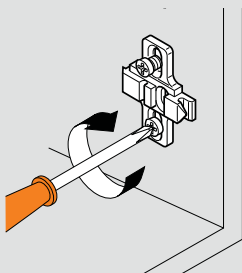
### INSERTA

Tool-free attachment (cup expands into Ø35 mm hole)

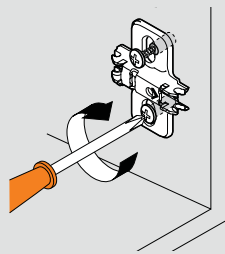


## Mounting plate-to-cabinet

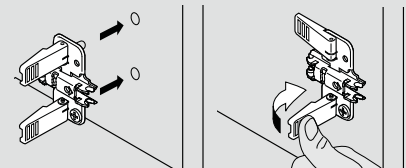
### Screw-on



### EXPANDO



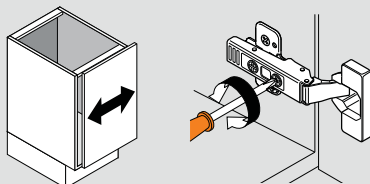
### INSERTA



## Three-dimensional adjustment

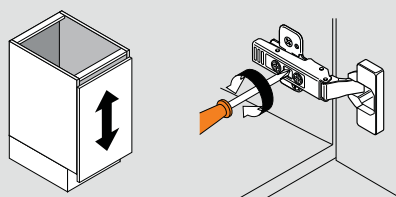
### Side adjustment

Rotate front screw to increase or decrease door overlay +/- 2 mm.



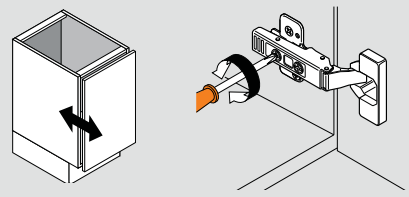
### Height adjustment

Rotate cam screw on mounting plate to adjust door position (+/- 2 mm). On non-cam mounting plates, loosen screws, adjust door and retighten screws.



### Depth adjustment

Rotate rear Spiral Tech cam screw to adjust door position (+3 mm, -2 mm). For CLIP hinges, loosen rear screws, adjust door and retighten screws.







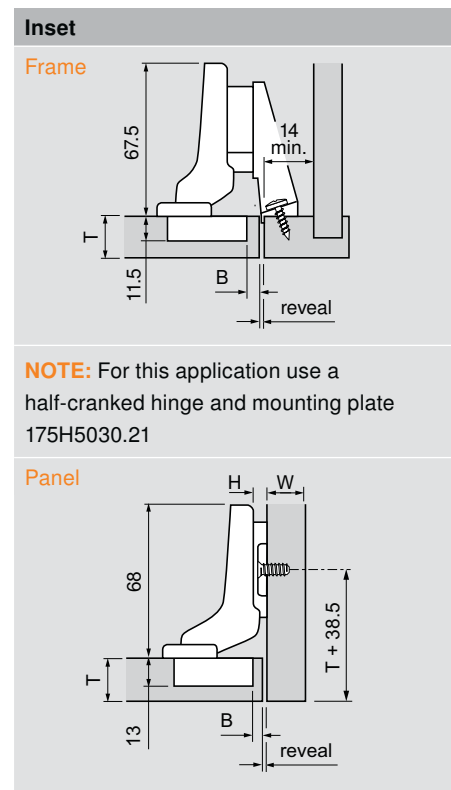
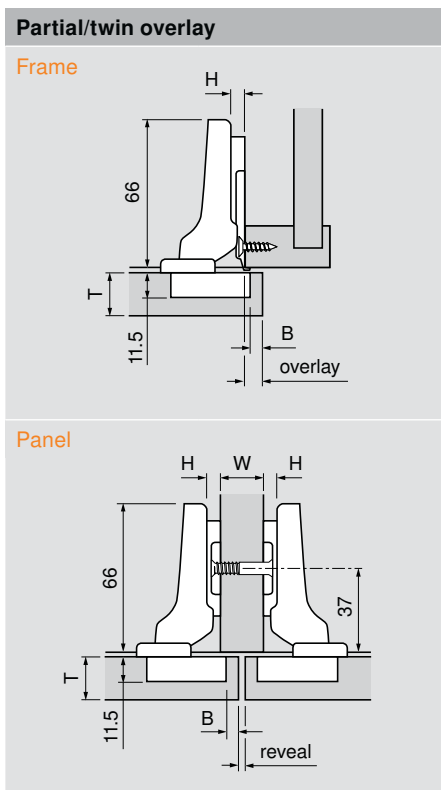
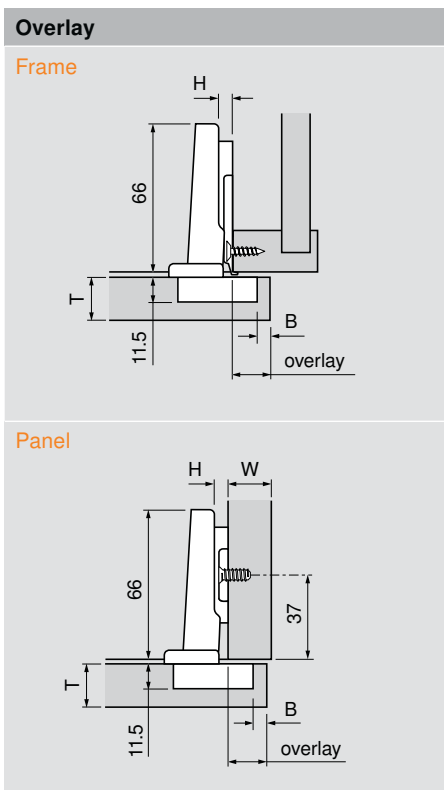
## Features

- 107° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated

Minimum reveal table					
3	0.6	1.0	1.3	1.7	2.5
4	0.6	1.0	1.3	1.6	2.4
5	0.6	1.0	1.2	1.5	2.2
6	0.6	1.0	1.2	1.4	2.0
B = boring dist.	16	18	19	20	22
T = door thickness					

Thickness greater than 22 trial app. recommended

CLIP top/CLIP



**NOTE:** For this application use a half-cranked hinge and mounting plate 175H5030.21

H	Overlay				P	S
0	14	15	16	17	10	21
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	7	8	19	30
	3	4	5	6	Fixed distance = 11	
	B = boring distance					

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

H	Overlay				P	S
0	4.5	5.5	6.5	7.5	20	31
	3	4	5	6	Fixed distance = 1.5	
	B = boring distance					

H	Reveal				W	P	S
0	7	5	3	1	16		
	10	8	6	4	19	20	31
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

H	Reveal				P	S
0	4	3	2	1	29	40
	3	4	5	6	Fixed distance = -7	
	B = boring distance					

Abbreviations	
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

Straight-arm	Self close	Free swing
Screw-on	75T1550	74T1550.TL
Press-in	75T1580	74T1580.TL
INSERTA	75T1590B	

Half-cranked	Self close
Screw-on	75T1650
Press-in	75T1680
INSERTA	75T1690B

Full-cranked	Self close
Screw-on	75T1750
Press-in	75T1780
INSERTA	75T1790B





## Features

- 110° opening angle
- Three-dimensional adjustment
- New INSERTA design
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated

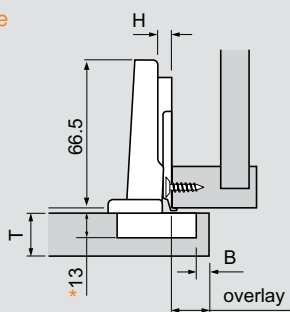
Minimum reveal table

	0.5	1.0	1.8	2.7	4.3
3	0.5	1.0	1.7	2.5	3.8
4	0.5	0.9	1.7	2.4	3.4
5	0.5	0.9	1.6	2.3	3.2
6	0.5	0.9	1.6	2.2	3.0
7	0.5	0.9	1.6	2.2	3.0
B = boring dist.	16	19	22	24	26
T = door thickness					

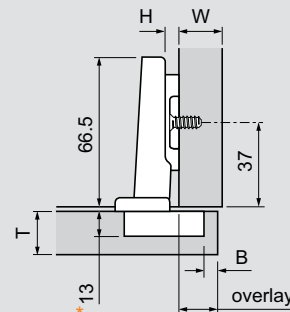
Thickness greater than 26 trial application recommended

## Overlay

### Frame

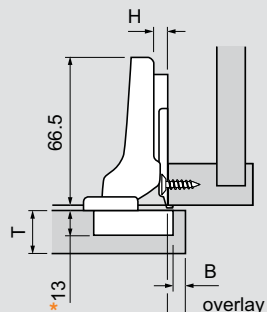


### Panel

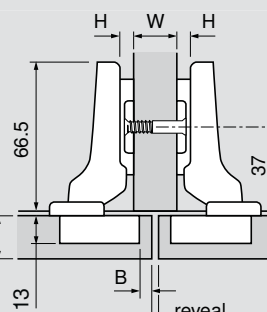


## Partial/twin overlay

### Frame

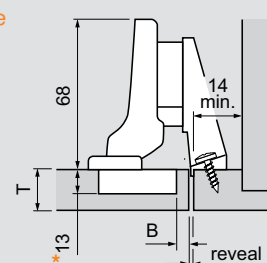


### Panel



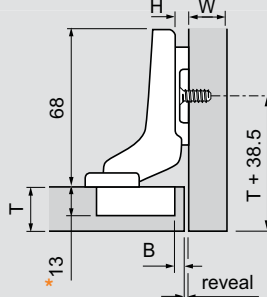
## Inset door

### Frame



**NOTE:** For this application use a half-cranked hinge from above and mounting plate 175H5030.21

### Panel



\*All 35 mm and 8 mm holes must be a minimum of 13 mm deep

H	Overlay						P	S
0	14	15	16	17	18	12	21.5	
3	11	12	13	14	15	15	24.5	
4.5	9.5	10.5	11.5	12.5	13.5	16.5	26	
6	8	9	10	11	12	18	27.5	
9	5	6	7	8	9	21	30.5	
	3	4	5	6	7	Fixed distance = 11		
	B = boring distance							

**NOTE:** 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Overlay					P	S
0	4.5	5.5	6.5	7.5	8.5	21.5	31
	3	4	5	6	7	Fixed distance = 1.5	
	B = boring distance						

H	Reveal					W	P	S
	7	5	3	1	—	16		
0	10	8	6	4	2	19	21.5	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							

H	Reveal					P	S
0	4	3	2	1	—	30	39.5
	3	4	5	6	7	Fixed distance = -7	
	B = boring distance						

## Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

Straight-arm	Self close	Free swing
Screw-on	71T3550	70T3550.TL
Press-in	71T3580	70T3580.TL
EXPANDO	71T358E	
INSERTA	71T3590	70T3590.TL

Half-cranked	Self close	Free swing
Screw-on	71T3650	70T3650.TL
Press-in	71T3680	
INSERTA	71T3690	

Full-cranked	Self close	Free swing
Screw-on	71T3750	70T3750.TL
Press-in	71T3780	
INSERTA	71T3790	





## Features

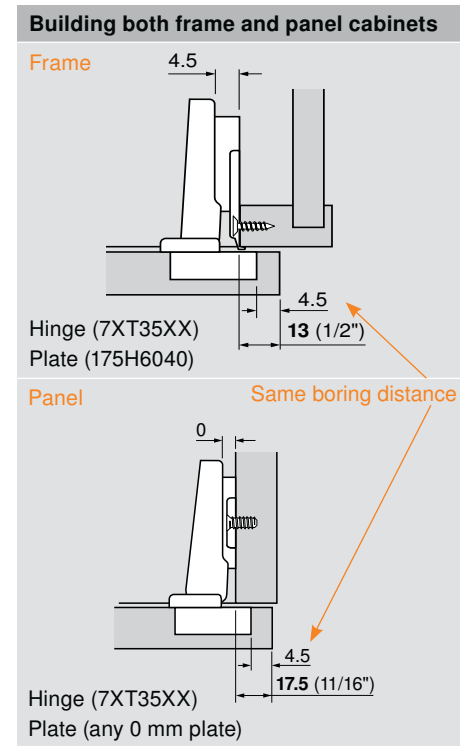
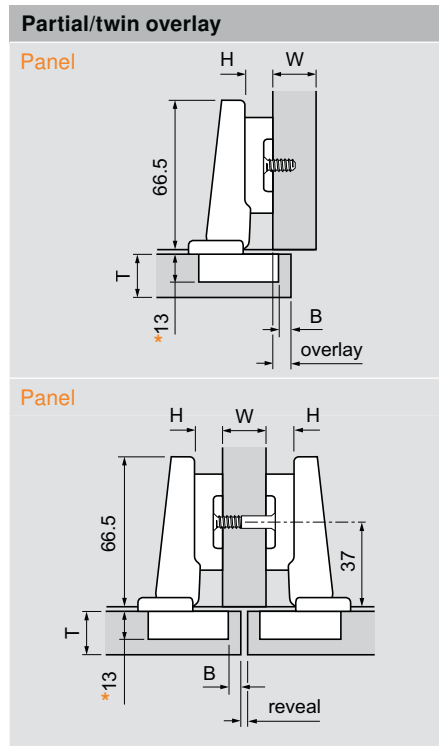
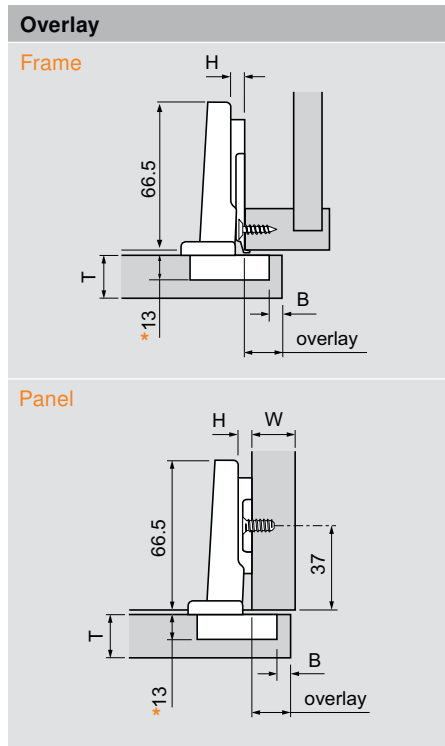
- 110° opening angle
- For door overlays up to 22 mm
- Three-dimensional adjustment
- New INSERTA design
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated

Minimum reveal table					
3	0.5	1.0	1.8	2.7	4.3
4	0.5	1.0	1.7	2.5	3.8
4.5	0.5	1.0	1.7	2.5	3.6
5	0.5	0.9	1.7	2.4	3.4
6	0.5	0.9	1.6	2.3	3.2
7	0.5	0.9	1.6	2.2	3.0
B = boring dist.	16	19	22	24	26

T = door thickness

Thickness greater than 26 mm application recommended

CLIP top/CLIP



\*All 35 mm and 8 mm holes must be a minimum of 13 mm deep

H	Overlay						P	S
0	16	17	17.5	18	19	20	10	20
3	13	14	14.5	15	16	17	13	23
4.5	11.5	12.5	13	13.5	14.5	15.5	14.5	24.5
6	10	11	11.5	12	13	14	16	26
9	7	8	8.5	9	10	11	19	29
	3	4	4.5	5	6	7	Fixed distance = 13	
	B = boring distance							

**NOTE:** 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Overlay						P	S
9	7	8	8.5	9	10	11	19	29
	3	4	4.5	5	6	7	Fixed distance = 13	
	B = boring distance							

H	Reveal						W	P	S
	2	—	—	—	—	—	16		
9	5	3	2	—	—	—	19	19	29
	8	6	5	4	—	—	22		
	3	4	4.5	5	6	7			
	B = boring distance								

The most common overlays for frame and panel cabinets can be achieved by using the same machine setting for hinge cup boring.

Bore all doors at 4.5 mm to achieve:

- 13 (1/2") overlay on frame cabinets
- 17.5 (11/16") overlay on panel cabinets

## Advantages:

- One machine setting for boring all doors
- Same hinge used for both applications

Abbreviations	
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

Straight-arm	Self close	Free swing
Screw-on	73T3550	72T3550.TL
Press-in	73T3580	72T3580.TL
EXPANDO	73T358E	
INSERTA	73T3590	72T3590.TL

Straight-arm	Self close	Free swing
Screw-on	73T3550	72T3550.TL
Press-in	73T3580	72T3580.TL
EXPANDO	73T358E	
INSERTA	73T3590	72T3590.TL





## Features

- 120° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated

## Minimum reveal table

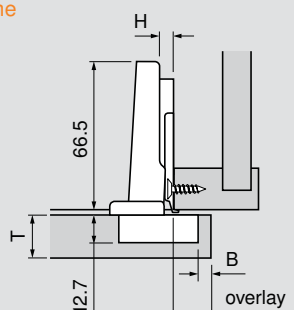
	1.2	1.7	2.0	2.4	3.3
3	1.2	1.7	2.0	2.4	3.3
4	1.2	1.7	2.0	2.3	3.1
5	1.1	1.6	1.9	2.2	3.0
6	1.1	1.6	1.9	2.2	2.9
B = boring dist.	16	18	19	20	22

T = door thickness

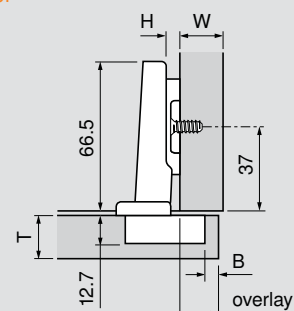
Thickness greater than 22 trial app. recommended

## Overlay

### Frame

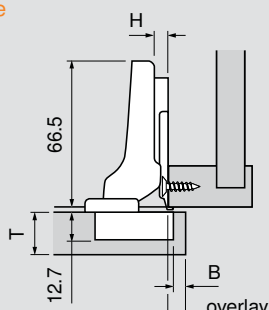


### Panel

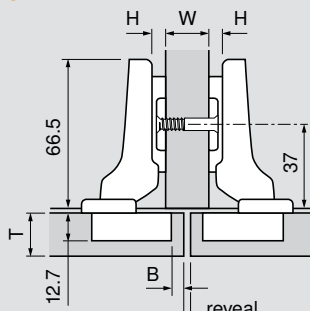


## Partial/twin overlay

### Frame

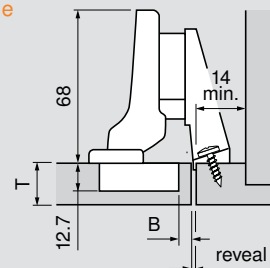


### Panel



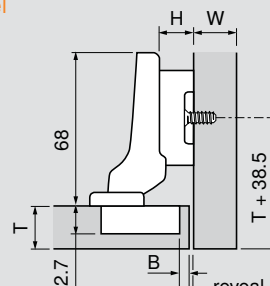
## Inset

### Frame



**NOTE:** For this application use a half-cranked hinge and mounting plate 175H5030.21

### Panel



H	Overlay				P	S
0	14	15	16	17	11.5	20.5
3	11	12	13	14	14.5	23.5
4.5	9.5	10.5	11.5	12.5	16	25
6	8	9	10	11	17.5	26.5
9	5	6	7	8	20.5	29.5
	3	4	5	6	Fixed distance = 11	
	B = boring distance					

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

H	Overlay				P	S
0	4.5	5.5	6.5	7.5	21.5	30
	3	4	5	6	Fixed distance = 1.5	
	B = boring distance					

H	Reveal				W	P	S
0	7	5	3	1	16	21.5	30
	10	8	6	4	19		
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

H	Reveal				P	S
9	4.5	3.5	2.5	1.5	30.5	39
	3	4	5	6	Fixed distance = -7.5	
	B = boring distance					

## Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

Straight-arm	Self close	Free swing
Screw-on	71T5550	70T5550.TL
Press-in	71T5580	70T5580.TL
EXPANDO	71T558E	
INSERTA	71T5590B	70T5590BTL

Half-cranked	Self close	Free swing
Screw-on	71T5650	70T5650.TL
Press-in	71T5680	70T5680.TL
INSERTA	71T5690B	70T5690BTL

Half-cranked	Self close	Free swing
Screw-on	71T5650	70T5650.TL
Press-in	71T5680	70T5680.TL
INSERTA	71T5690B	70T5690BTL





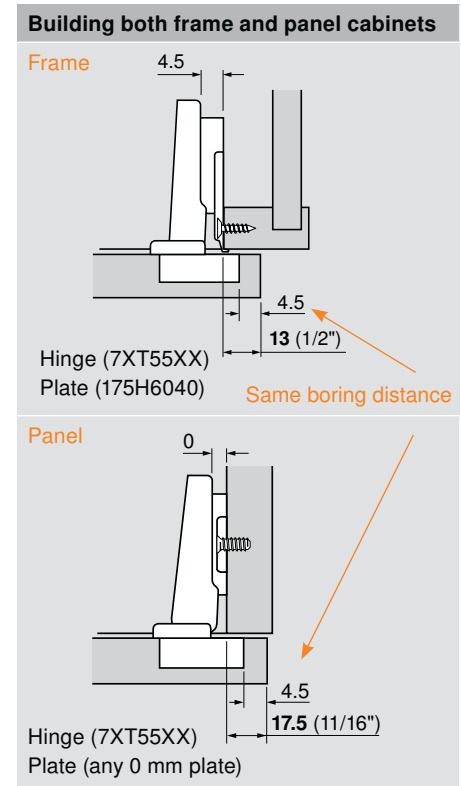
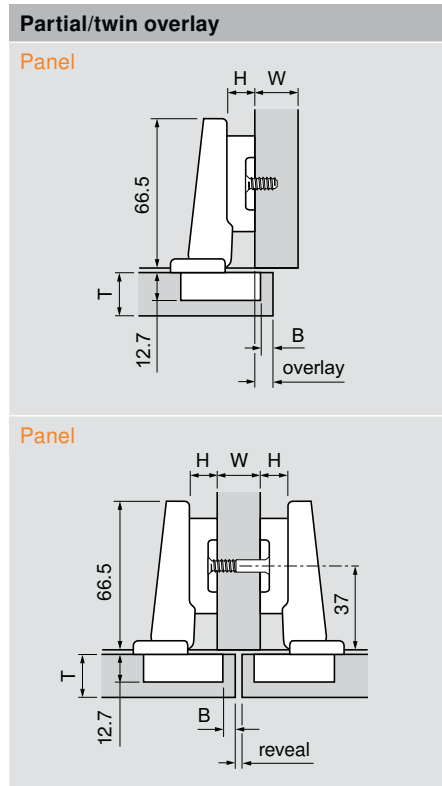
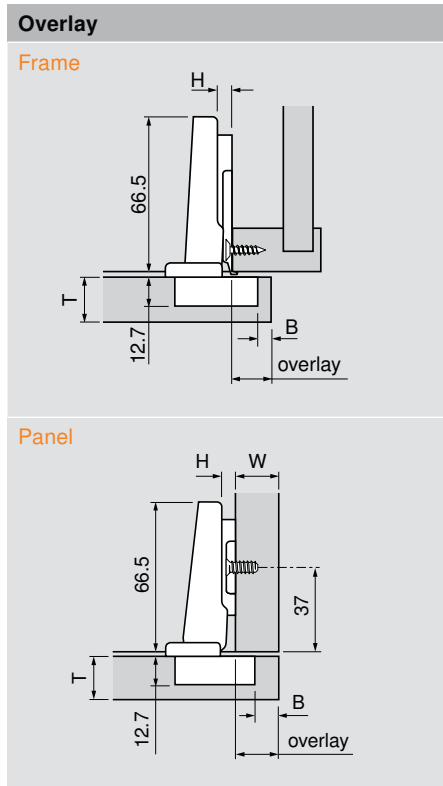
## Features

- 120° opening angle
- For larger overlays (21 mm maximum)
- Straight-arm hinges only
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated

Minimum reveal table					
3	1.2	1.7	2.0	2.4	3.3
4	1.2	1.7	2.0	2.3	3.1
4.5	1.1	1.6	1.9	2.2	3.0
5	1.1	1.6	1.9	2.2	3.0
6	1.1	1.6	1.9	2.2	2.9
B = boring dist.	16	18	19	20	22

T = door thickness

Thickness greater than 22 trial app. recommended



H	Overlay						P	S
0	16	17	17.5	18	19	12	21.5	
3	13	14	14.5	15	16	15	24.5	
4.5	11.5	12.5	13	13.5	14.5	16.5	26	
6	10	11	11.5	12	13	18	27.5	
9	7	8	8.5	9	10	21	30.5	
	3	4	4.5	5	6	Fixed distance = 13		
	B = boring distance							

**NOTE:** 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Overlay						P	S
9	7	8	8.5	9	10	18.5	28	
	3	4	4.5	5	6	Fixed distance = 13		
	B = boring distance							
H	Reveal					W	P	S
9	2	—	—	—	—	16	18.5	28
	5	3	2	—	—	19		
	8	6	5	4	—	22		
	3	4	4.5	5	6			
	B = boring distance							

The most common overlays for frame and panel cabinets can be achieved by using the same machine setting for hinge cup boring.

Bore all doors at 4.5 mm to achieve:

- 13 (1/2") overlay on frame cabinets
- 17.5 (11/16") overlay on panel cabinets

## Advantages:

- One machine setting for boring all doors
- Same hinge used for both applications

Abbreviations	
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

Straight-arm	Self close	Free swing
Screw-on	73T5550	
Press-in	73T5580	72T5580.TL
EXPANDO	73T558E	
INSERTA	73T5590B	

Straight-arm	Self close	Free swing
Screw-on	73T5550	
Press-in	73T5580	72T5580.TL
EXPANDO	73T558E	
INSERTA	73T5590B	



# CLIP top 170° hinges



## Features

- 170° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- 130° angle restriction clip available (70.6103)
- All metal hinge, nickel-plated

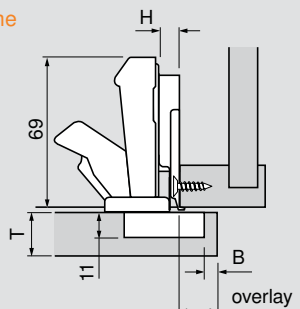
## Minimum reveal table

	3	4	5	6	7	8
B = boring dist.	0	0	0	0	0	0
T = door thickness	0.2	0	0	0	0	0
	16	18	19	20	22	24

Thickness greater than 24 trial app. recommended

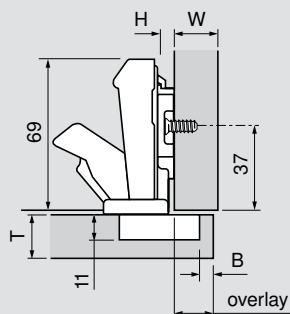
## Overlay

### Frame



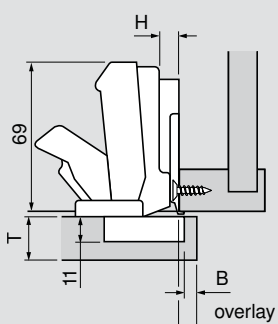
**NOTE:** 175H6xxx or 175L6600.24 recommended

### Panel



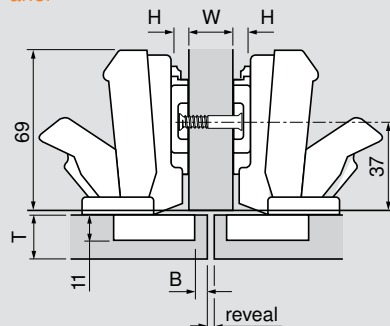
## Partial/twin overlay

### Frame



**NOTE:** 175H6xxx or 175L6600.24 recommended

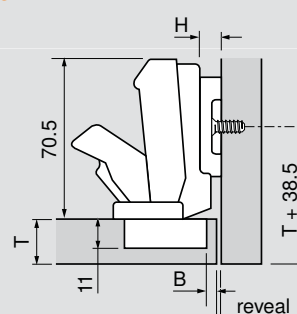
### Panel



## Inset

Inset application not possible with 170° hinges and the inset face frame adapter (175H5030.21)

### Panel



H	Overlay							P	S
0	14	15	16	17	18	19		1.5	65
3	11	12	13	14	15	16		4.5	68
4.5	9.5	10.5	11.5	12.5	13.5	14.5		6	69.5
6	8	9	10	11	12	13		7.5	71
9	5	6	7	8	9	10		10.5	74
	3	4	5	6	7	8		Fixed distance = 11	
	B = boring distance								

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

H	Overlay							P	S
0	4.5	5.5	6.5	7.5	8.5	9.5		11	75
	3	4	5	6	7	8		Fixed distance = 1.5	
	B = boring distance								

H	Reveal						W	P	S
0	7	5	3	1	—	—	16		
	10	8	6	4	2	0	19	11	75
	13	11	9	7	5	3	22		
	3	4	5	6	7	8			
	B = boring distance								

H	Reveal							P	S
9	4.5	3.5	2.5	1.5	0.5	—		20	84
	3	4	5	6	7	8		Fixed distance = -7.5	
	B = boring distance								

## Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

Straight-arm	Self close	Free swing
Screw-on	71T6550	70T6550
Press-in	71T6580	
INSERTA	71T6540B	70T6540B

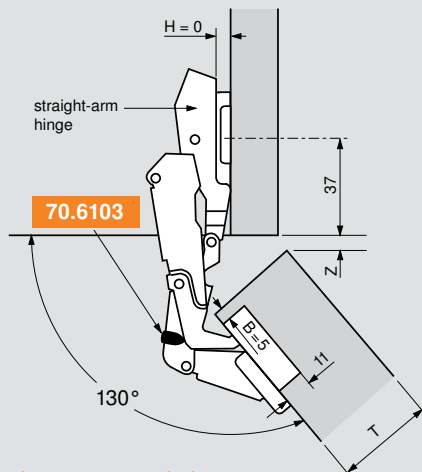
Half-cranked	Self close	Free swing
Screw-on	71T6650	70T6650
Press-in	71T6680	
INSERTA	71T6640B	

Half-cranked	Self close	Free swing
Screw-on	71T6650	70T6650
Press-in	71T6680	
INSERTA	71T6640B	



## Straight arm applications

### Thick door application



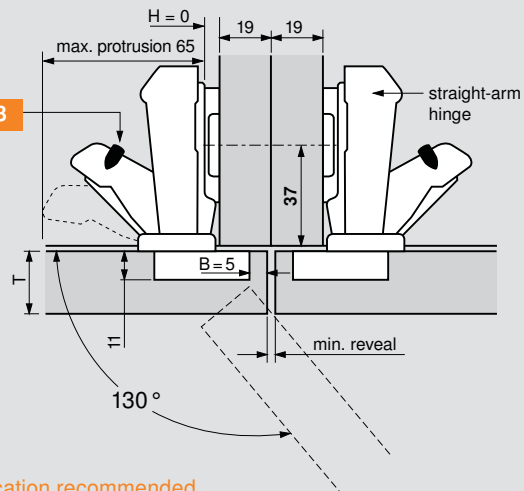
Trial application recommended

Z = gap

15.5	13	11	9.5	7.5
25	29	32	35	38

T = Door thickness

### Thick door — twin application



Trial application recommended

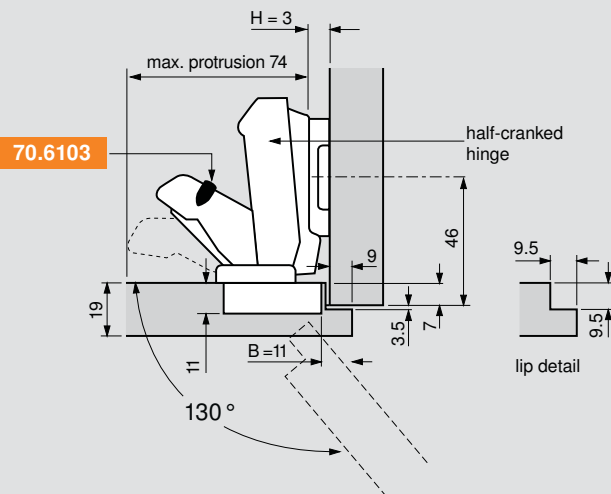
Minimum reveal table

0	6.5	14.5	21
22	25	29	32

T = door thickness

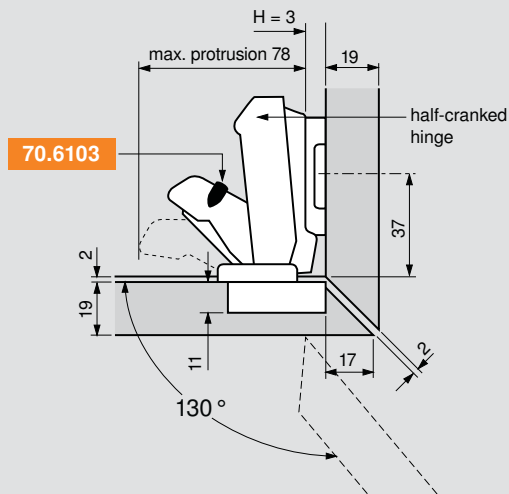
## Half-cranked applications

### Lip door application



Trial application recommended

### Mitered corner door application



Trial application recommended

**NOTE:** The above applications can be achieved in face frame cabinets by blocking out behind the frame

### Angle restriction clip



- Reduces opening angle of the CLIP top 170° to 130°
- Installs quickly and easily tool-free
- Black nylon

Part no.

Angle restriction clip

70.6103





## Features

- 95° opening angle
- For door thicknesses up to 30 mm
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated

## Minimum reveal table

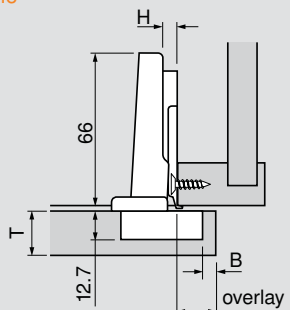
	3	4	5	6	7	B = boring dist.
0.4	0.9	1.3	1.8	2.6	3.1	3.8
0.4	0.9	1.3	1.8	2.5	2.9	3.5
0.4	0.9	1.3	1.8	2.4	2.8	3.3
0.4	0.9	1.3	1.8	2.3	2.7	3.2
0.4	0.9	1.2	1.7	2.2	2.6	3.1
19	22	24	26	28	29	30

T = door thickness

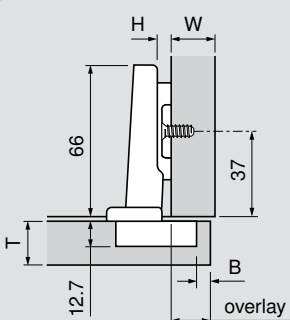
Thickness greater than 30 trial app. recommended

## Overlay

### Frame

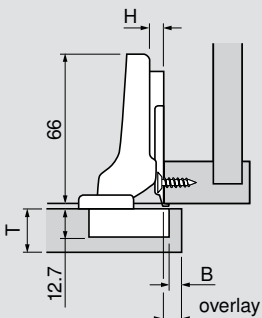


### Panel

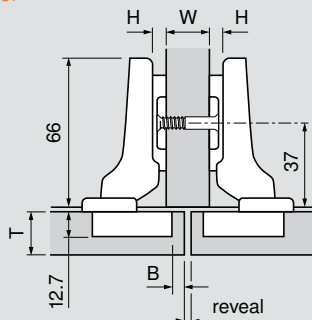


## Partial/twin overlay

### Frame

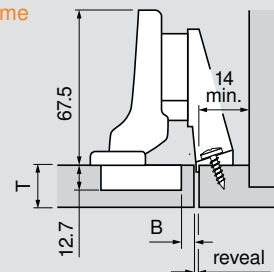


### Panel



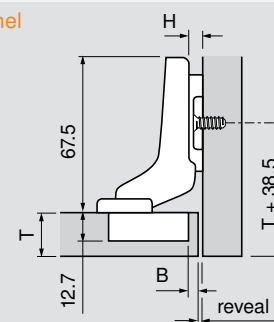
## Inset

### Frame



**NOTE:** For this application use a half-cranked hinge and mounting plate 175H5030.21

### Panel



H	Overlay						P	S
0	14	15	16	17	18	14.5	22	
3	11	12	13	14	15	17.5	25	
4.5	9.5	10.5	11.5	12.5	13.5	19	26.5	
6	8	9	10	11	12	20.5	28	
9	5	6	7	8	9	23.5	31	
	3	4	5	6	7	Fixed distance = 11		
	B = boring distance							

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets


H	Overlay						P	S
0	4.5	5.5	6.5	7.5	8.5	24	31	
	3	4	5	6	7	Fixed distance = 1.5		
	B = boring distance							


H	Reveal					W	P	S
	7	5	3	1	—	16		
0	10	8	6	4	2	19	24	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							


H	Reveal					P	S
0	4	3	2	1	—	32.5	40
	3	4	5	6	7	Fixed distance = -7	
	B = boring distance						

## Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

Straight-arm	Self close	Free swing
Screw-on	71T9550	70T9550.TL
Press-in 	71T9580	70T9580.TL
INSERTA	71T9590B	

Half-cranked	Self close	Free swing
Screw-on	71T9650	70T9650.TL
Press-in 	71T9680	
INSERTA	71T9690B	

Full-cranked	Self close	Free swing
Screw-on	71T9750	70T9750.TL
Press-in 	71T9780	
INSERTA	71T9790B	





## Features

- 155° opening angle
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- 110° angle restriction clip available (70T7503N)
- All metal hinge, nickel-plated

Minimum reveal table						
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
B = boring dist.	16	18	19	20	22	24

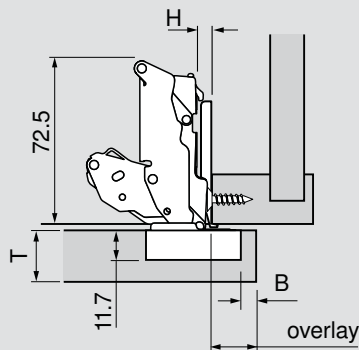
T = door thickness

Thickness greater than 24, please see page 22.

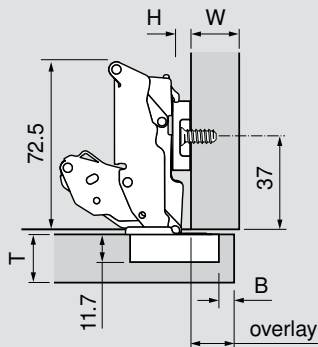
CLIP top/CLIP

## Overlay

### Frame

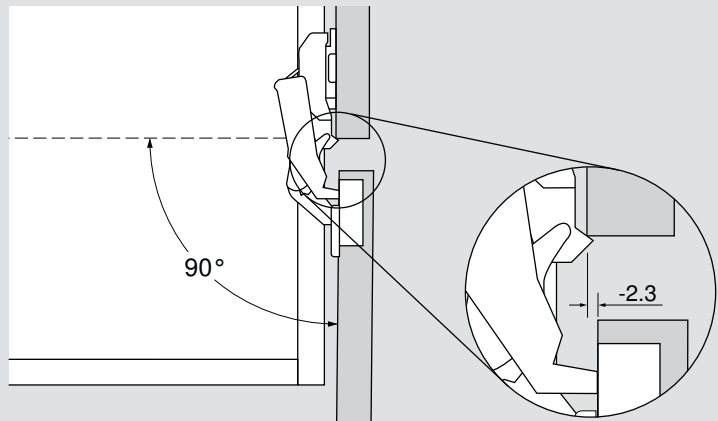


### Panel



## Door protrusion

At 90° opening, using 0 mm plate, the door will have -2.3 mm protrusion regardless of boring distance. Use side adjustment to increase or decrease door protrusion.



**NOTE:** Use of 0 mm or 3 mm is recommended for zero protrusion

## Angle restriction clip

- Reduces opening angle to 110°
- For use with 155° hinges only
- Gray nylon



Part no.

110° restriction clip **70T7503N**

## Angle restriction clip

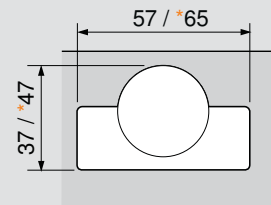
- Reduces opening angle to 92°
- For use with 155° hinges only
- Gray nylon



Part no.

92° restriction clip **70T7503N09**

## Hinge cup dimensions



\*INSERTA

H	Overlay						P	S
0	14	15	16	17	18	19	-2.3	61
3	11	12	13	14	15	16	0.7	64
	3	4	5	6	7	8	Fixed distance = 11	

B = boring distance

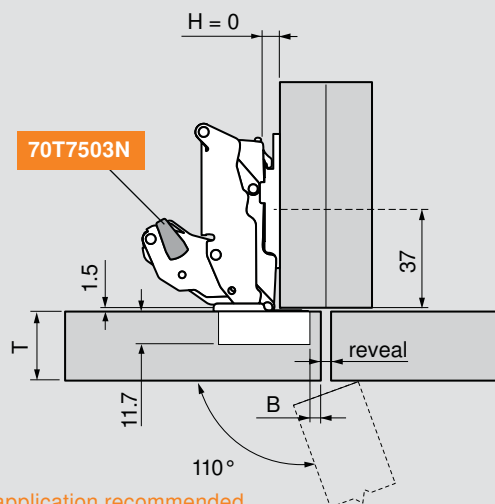
Straight-arm	Self close
Screw-on	<b>71T7500N</b>
Press-in	<b>71T7530N</b>
INSERTA	<b>71T7540N</b>

Abbreviations	
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width





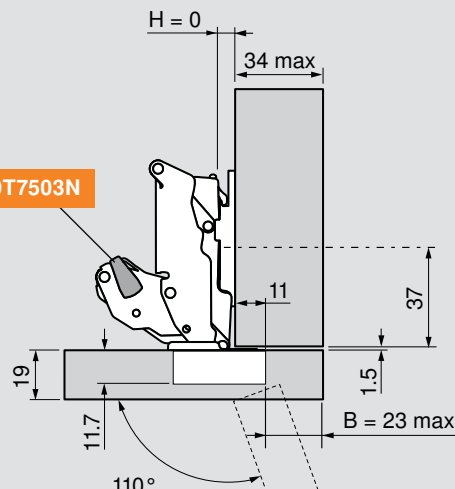
## Maximum door thickness



Trial application recommended

**NOTE:** For thick door applications, you must bore at the specified boring distance listed in the chart below

## Maximum door overlay



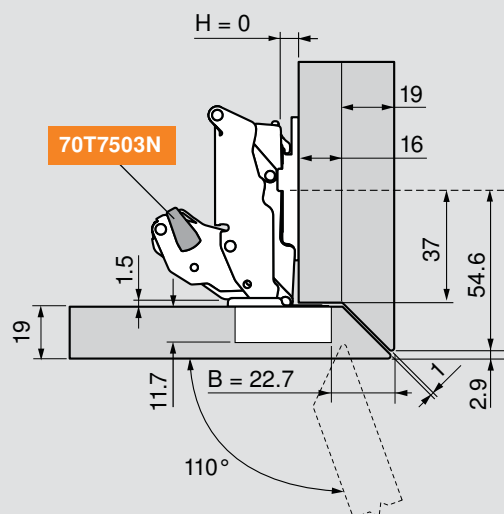
Trial application recommended

Minimum reveal	T = door thickness						
2	28	27	26	25			
	3	4	5	6	7	8	
	B = boring distance						

H	Overlay							
0	19	22	24	26	28	30	32	34
	8	11	13	15	17	19	21	23
	B = boring distance							

\* Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm

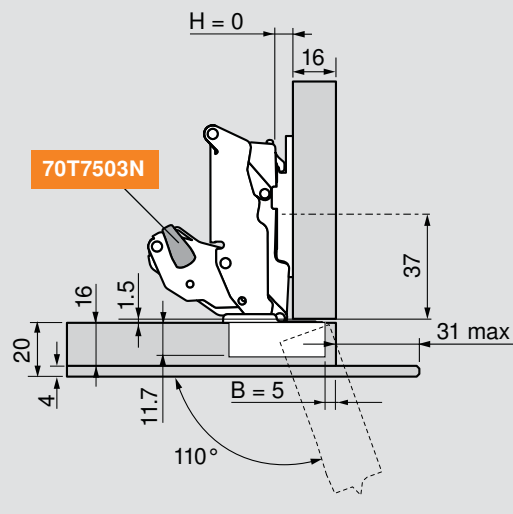
## Mitered door with large overlay



Trial application recommended

**NOTE:** These applications can be achieved in face frame cabinets by blocking out behind the frame

## Thin facings added to door



Trial application recommended

Straight-arm	Self close
Screw-on	71T7500N
Press-in	71T7530N
INSERTA	71T7540N

## Angle restriction clips



- For use with 155° hinges only
- Gray nylon

Part no.

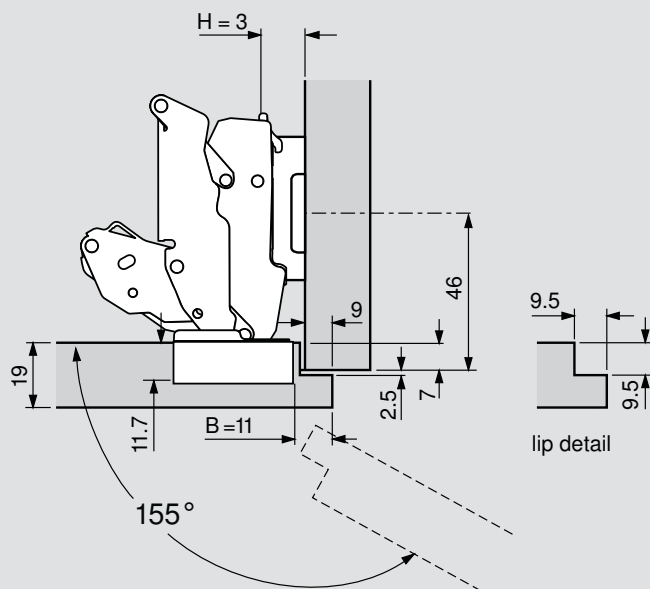
110° restriction clip	70T7503N
92° restriction clip	70T7503N09

## Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

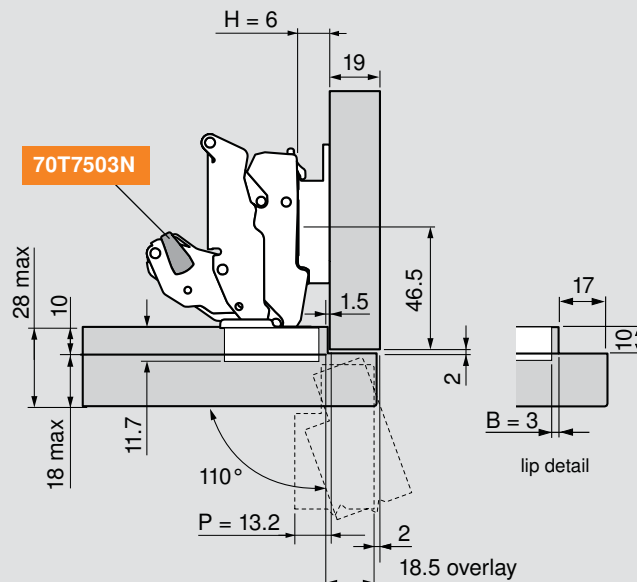


## Lip door



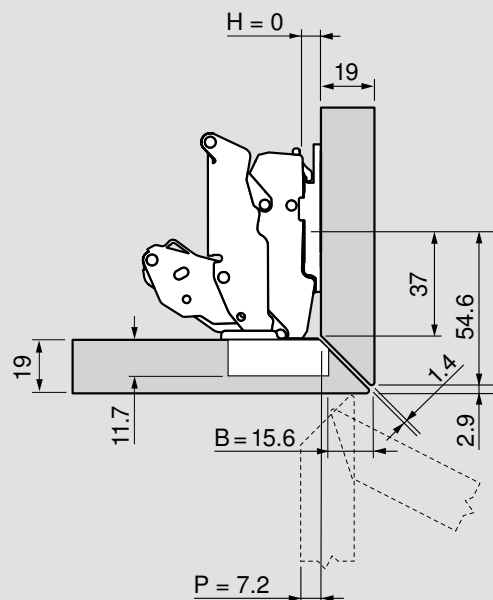
Trial application recommended

## Thick lip door



Trial application recommended

## Two-sided and four-sided mitered



Trial application recommended

**NOTE:** These applications can be achieved in face frame cabinets by blocking out behind the frame

Half-cranked	Self close
Screw-on	71T7600N
INSERTA	71T7640N

## Angle restriction clips



- For use with 155° hinges only
- Gray nylon

Part no.

110° restriction clip	70T7503N
92° restriction clip	70T7503N09

## Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width



# CLIP top 120° aluminum door hinges for BLUMOTION



## Features

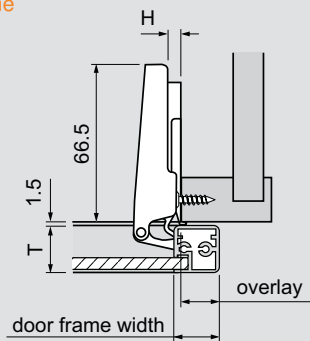
- 120° opening angle
- For use with BLUMOTION 973A
- Three-dimensional adjustment
- All metal hinge, nickel-plated

Minimum reveal table					
18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3
20	1.4	1.8	2.2	2.6	3.1
21	1.4	1.7	2.1	2.5	3.0
22	1.3	1.7	2	2.4	2.9
door frame width	18	19	20	21	22
T = door thickness					

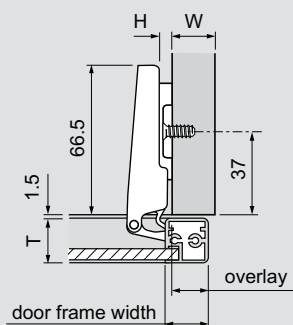
Thickness greater than 22 trial app. recommended

## Overlay

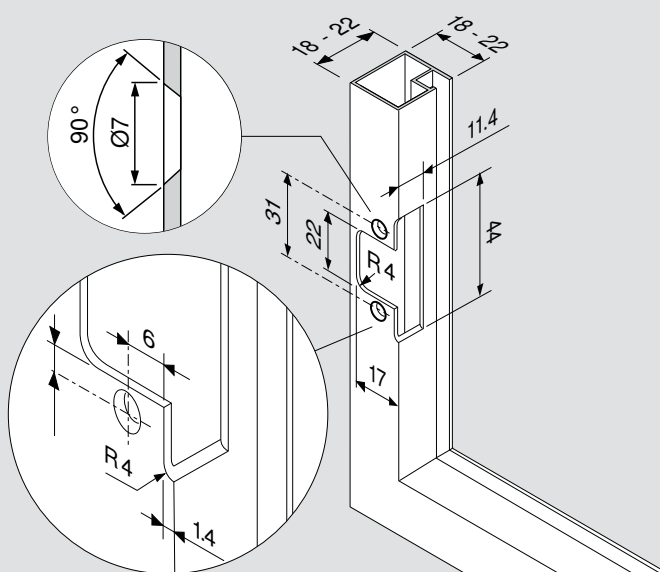
### Frame



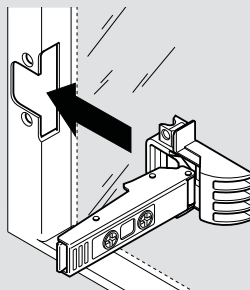
### Panel



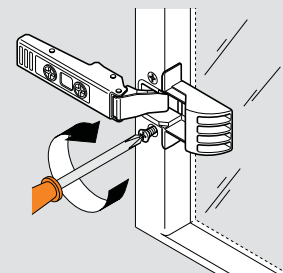
## Specifications



Insert hinges into machined openings



Attach with special screws provided with hinges (699.110)



H	Overlay	P	S
0	15	8	19.5
3	12	11	22.5
4.5	10.5	12.5	24
6	9	14	25.5
9	6	17	28.5
Fixed boring distance			

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

## Straight-arm

Screw-on

## Self close

**73T550AB**

## Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width



# CLIP top 120° aluminum door hinges



## Features

- 120° opening angle
- Not for use with BLUMOTION 973A
- Three-dimensional adjustment
- All metal hinge, nickel-plated

Minimum reveal table					
18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3
20	1.4	1.8	2.2	2.6	3.1
21	1.4	1.7	2.1	2.5	3.0
22	1.3	1.7	2	2.4	2.9
door frame width	18	19	20	21	22

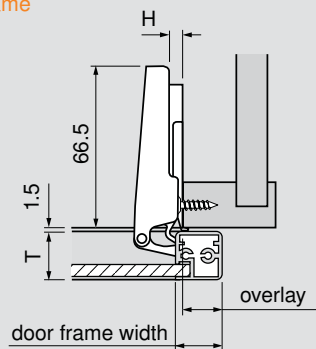
T = door thickness

Thickness greater than 22 trial app. recommended

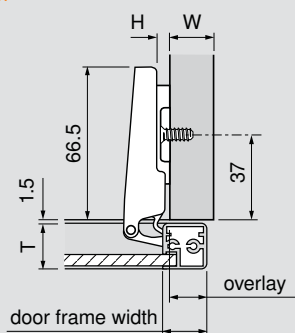
CLIP top/CLIP

## Overlay

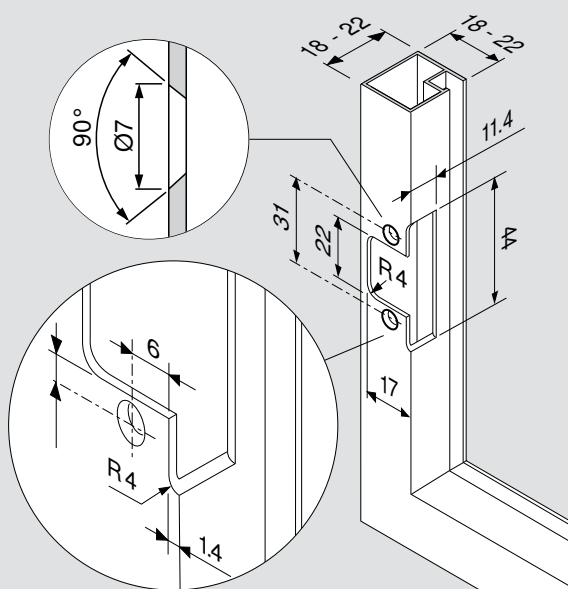
### Frame



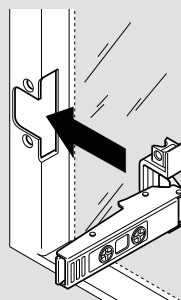
### Panel



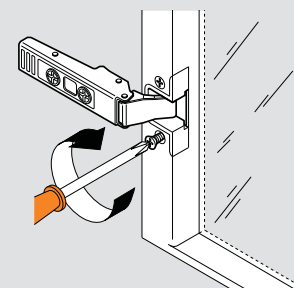
## Specifications



Insert hinges into machined openings



Attach with special screws provided with hinges (699.110)



H	Overlay	P	S
0	15	8	19.5
3	12	11	22.5
4.5	10.5	12.5	24
6	9	14	25.5
9	6	17	28.5

Fixed boring distance

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

Straight-arm	Self close	Free swing
Screw-on	73T550A	72T550A.TL

## Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width



# CLIP top 95° inset blind corner hinge



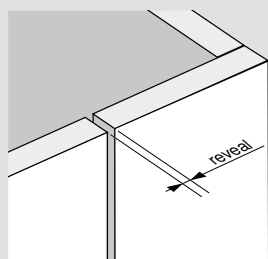
## Features

- 95° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated

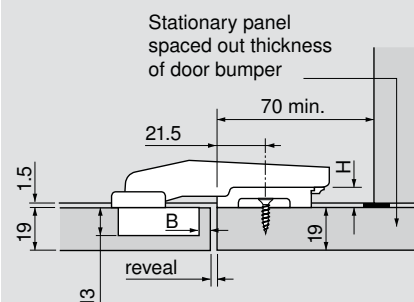
Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B = bore dist.	16	18	19	20	22	24
T = door thickness						

Thickness greater than 24 trial app. recommended

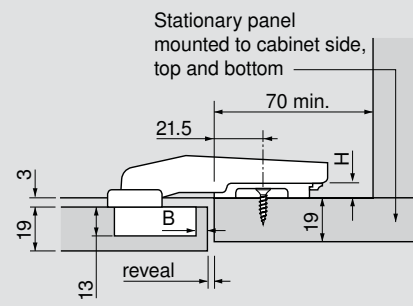
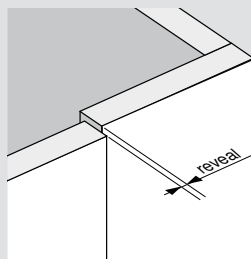
## Flush door applications



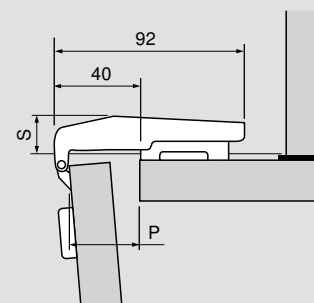
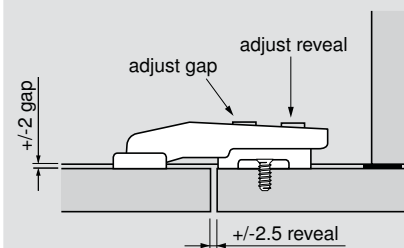
Back of door is flush with stationary panel



## Offset door applications



## Adjustments and clearances



H	Reveal					P	S
3	5	4	3	2	1	33.5	21
	3	4	5	6	7		
	B = boring distance						

H	Reveal					P	S
0	5	4	3	2	1	33.5	18
	3	4	5	6	7		
	B = boring distance						

Inset blind corner	Self close
Screw-on	79T9550
Press-in	79T9580
INSERTA	79T9590B

Inset blind corner	Self close
Screw-on	79T9550
Press-in	79T9580
INSERTA	79T9590B

Abbreviations	
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion



# CLIP top 95° overlay blind corner hinge



## Features

- 95° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated

## Minimum reveal table

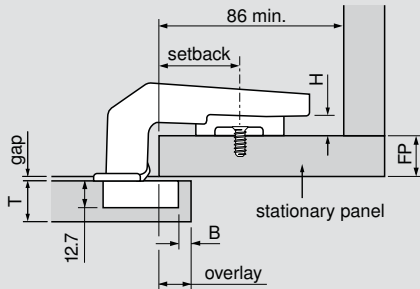
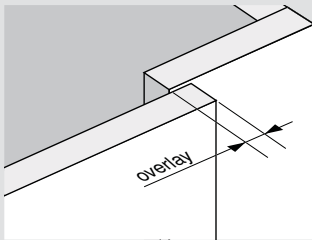
	0.1	0.3	0.4	0.5	0.9	1.3
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B= bore dist.	16	18	19	20	22	24

T = door thickness

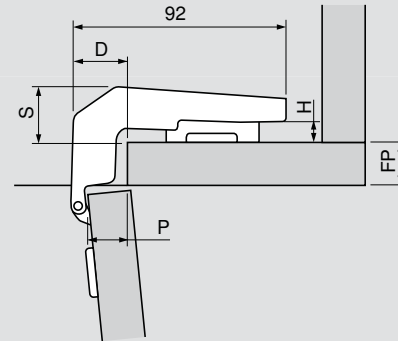
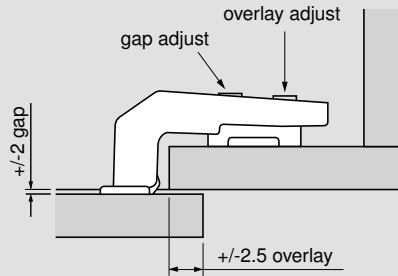
Thickness greater than 24 trial app. recommended

CLIP top/CLIP

## Overlay application



## Adjustments and clearances



**NOTE:** Door gap can be adjusted +/- 2 mm

Setback	Overlay					P	D
27	2	3	4	5	6	7	32
32	7	8	9	10	11	12	27
37	12	13	14	15	16	17	22
	3	4	5	6	7	Fixed distance = 9	
	B = boring distance						

**NOTE:** Door overlay varies depending on the setback position of the mounting plate. Use the table to select the desired overlay and cross-reference to the plate setback and bore distance.

H	Gap			S
0	7	4	1	21
3	4	1	—	24
6	1	—	—	27
	16	19	22	
	FP = front panel thickness			

**NOTE:** The door gap varies depending on the thickness of the stationary panel and the height of the mounting plate. Use the table to cross-reference the plate height based on the front panel thickness and door gap.

Overlay blind corner	Self close
INSERTA	79T9990B37

## Abbreviations

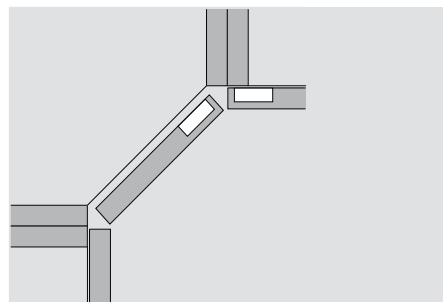
FP	= Front panel thickness
D	= Depth
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness



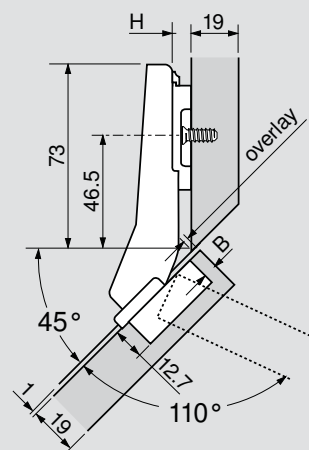
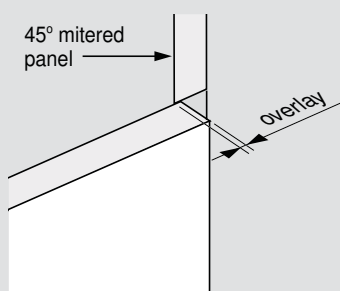


## Features

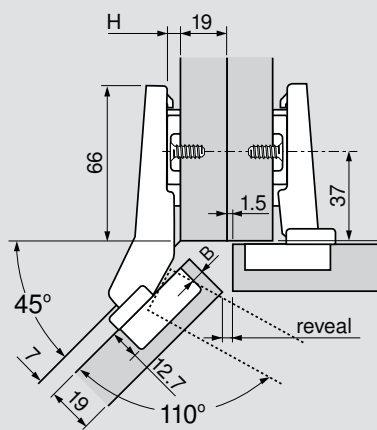
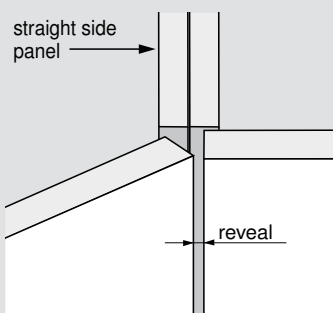
- 110° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated



## Overlay application



## Inside corner



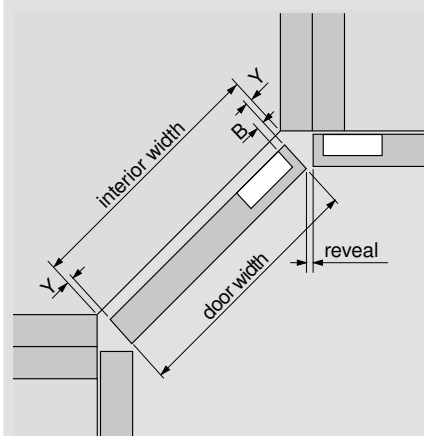
## Calculating door width

**Step 1.** Using the boring distance (B) determined in the reveal table, cross-reference to find the side gap distance (Y) in the table below.

**Step 2.** Using the following formula to find the door width. Door width = interior width minus (Y x 2).

**Example:** interior width = 400 mm, side gap (Y) = 4.5 mm.

$$391 = 400 \text{ minus } (4.5 \times 2)$$



H	Overlay			
0	1	2	3	4
	3	4	5	6
B = boring distance				

H	Reveal			
0	6	5	4	3
	3	4	5	6
B = boring distance				
<b>NOTE:</b> Reveal based on 19 (3/4") side panel				

Y = side gap			
5.5	4.5	3.5	2.5
3	4	5	6
B = boring distance			
<b>NOTE:</b> Calculations based on 19 (3/4") door thk.			

Diagonal 45° hinges	Self close
Screw-on	79T5550
Press-in	79T5580
INSERTA	79T5590B

Diagonal 45° hinges	Self close
Screw-on	79T5550
Press-in	79T5580
INSERTA	79T5590B

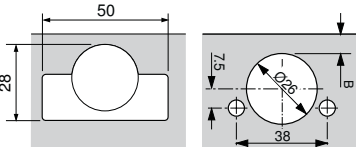
Abbreviations	
H	= Plate height
Y	= Side gap





## Features

- 95° opening angle
- For small doors or doors with small frames
- Side adjustment of +0.5 mm to -3.5 mm
- 26 mm drill bit required (**1" can not be used**)
- Three-dimensional adjustment
- All metal hinge, nickel-plated



## Minimum reveal table

	3	4	5	B = boring dist.	16	18	19	20	22	24	26
	1.1	1.1	1.1								
	2.2	2.0	1.8								
	3.0	2.7	2.4								
	3.8	3.5	3.0								
	5.5	5.0	4.6								
	7.3	6.8	6.3								
	9.1	8.6	8.0								

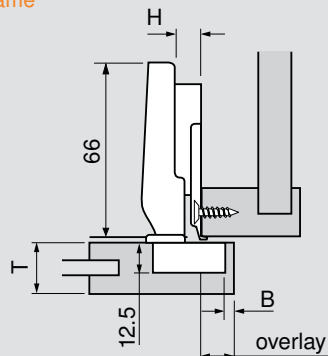
T = door thickness

Thickness greater than 26 trial app. recommended

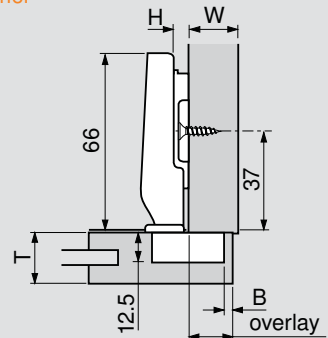
CLIP top/CLIP

## Overlay

### Frame

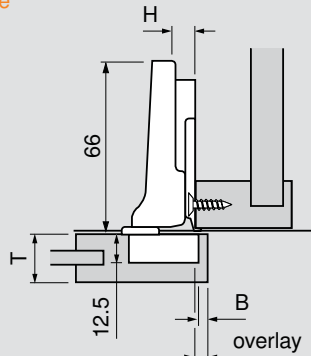


### Panel

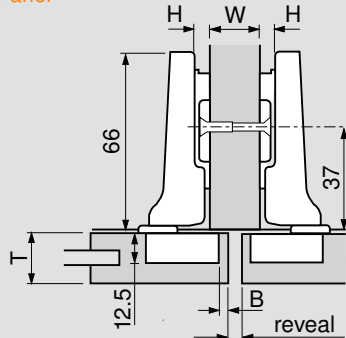


## Partial/twin overlay

### Frame

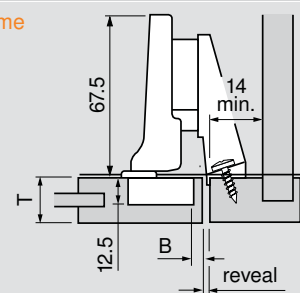


### Panel



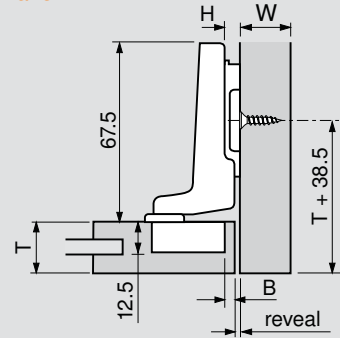
## Inset

### Frame



**NOTE:** For this application use a half-cranked hinge and mounting plate 175H5030.21

### Panel



H	Overlay			P	S
0	13	14	15	6	19
3	10	11	12	9	22
4.5	8.5	9.5	10.5	11	23.5
6	7	8	9	12	25
9	4	5	6	15	28
	3	4	5	Fixed distance = 10	
	B = boring distance				

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

H	Overlay			P	S
0	3.5	4.5	5.5	15.5	24
	3	4	5	Fixed distance = .5	
	B = boring distance				

H	Reveal			W	P	S
0	9	7	5	16	15.5	24
	12	10	8	19		
	15	13	11	22		
	3	4	5			
	B = boring distance					

H	Reveal			P	S
0	5	4	3	24	32
	3	4	5	Fixed distance = -8	
	B = boring distance				

## Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

Straight-arm	Self close
Screw-on	71T0550

Half-cranked	Self close
Screw-on	71T0650

Full-cranked	Self close
Screw-on	71T0750



# CLIP top 95° glass door hinges



## Features

- 95° opening angle
- For glass thickness of 4.5 mm to 7 mm
- Side adjustment of +5 mm to -3.5 mm
- Three-dimensional adjustment
- Fixing screws included (605.1100)
- 26 mm drill bit required (**1" can not be used**)

## Minimum reveal table

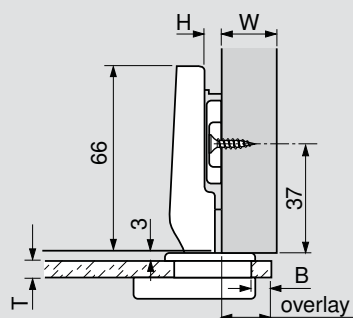
	4.5	5	6	7
5.5	0	0	0	0
6	0	0	0	0
6.5	0	0	0	0
7	0	0	0	0
B = boring dist.	4.5	5	6	7

T = door thickness

Thickness greater than 7 trial app. recommended

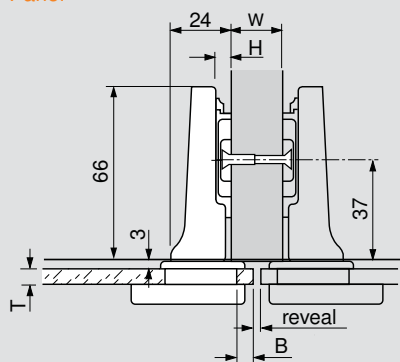
## Overlay

### Panel



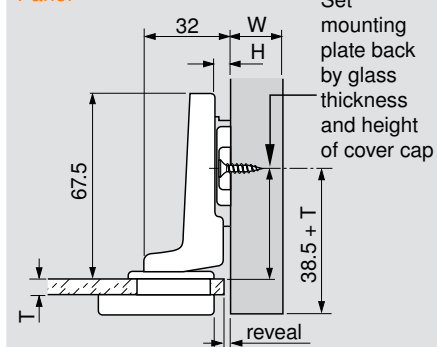
## Partial/twin overlay

### Panel



## Inset

### Panel

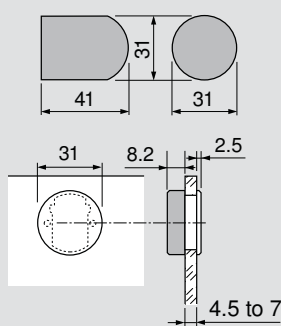


## Cover caps for door front

### D-shape cap



### Round cap

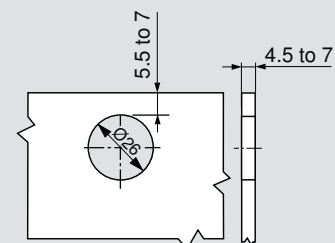


- Required on door front
- D-shape available in polished chrome
- Round available in black and polished chrome

## Part no.

D-shape cover cap	84.4120
Round cover cap	84.4140

## Boring pattern



H	Overlay				P	S
0	15.5	16	16.5	17	6	19
3	12.5	13	13.5	14	9	22
6	9.5	10	10.5	11	12	25
9	6.5	7	7.5	8	15	28
	5.5	6	6.5	7	Fixed distance = 10	
	B = boring distance					

**NOTE:** 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

H	Reveal				W	P	S
0	4	3	1	0.5	16		
	7	6	5	4	19	15	24
	10	9	8	7	22		
	5.5	6	6.5	7			
	B = boring distance						

H	Reveal				P	S
0	2.5	2	1.5	1	23.5	32
	5.5	6	6.5	7	Fixed distance = -8	
	B = boring distance					

## Abbreviations

H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

## Straight-arm

Screw-on

## Self close

75T4100

## Half-cranked

Screw-on

## Self close

75T4200

## Full-cranked

Screw-on

## Self close

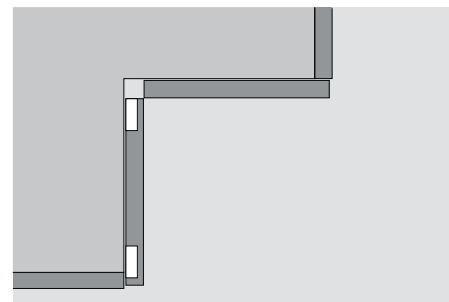
75T4300





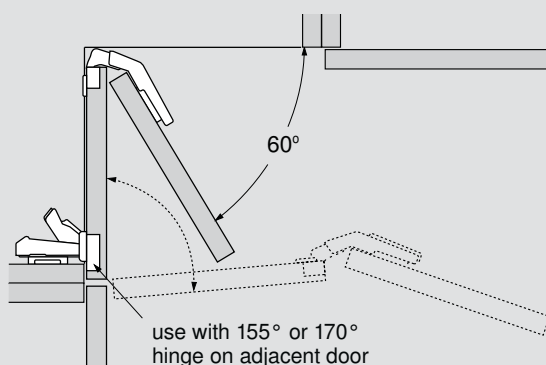
## Features

- 60° opening angle
- Spiral tech side adjustment for door gap
- Spiral tech depth adjustment for in/out
- Four-dimensional adjustment
- All metal hinge, nickel-plated



CLIP top/CLIP

## Inside corner application



## Calculating door sizes

The doors for a CLIP top bi-fold application can be of equal or unequal width. To calculate the door width (DW) of each door follow the step-by-step below.

**Step 1.** Add the interior width to the side panel width (W)

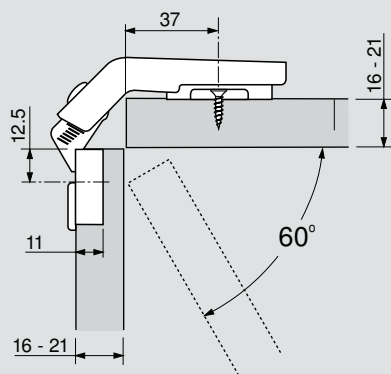
**Step 2.** Subtract door thickness (T) and reveal (R)

**Step 3.** Subtract gap (G) and bumper thickness behind adjacent door

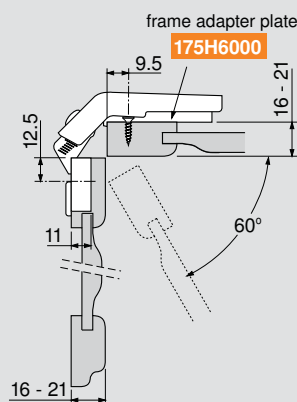
**Formula:**  $DW = (IW + W) \text{ minus } T \text{ minus } R \text{ minus } G$

**Example:**  $DW = (500 + 19) - 19 - 3 - 1$   
 $DW = 496 \text{ mm}$

## With flat panel doors

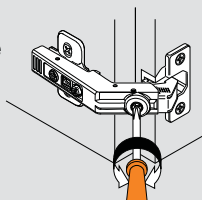


## With profile doors

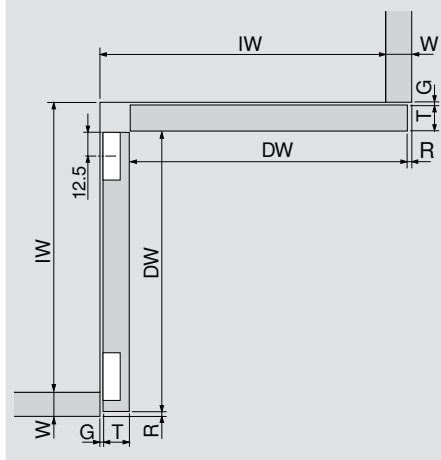
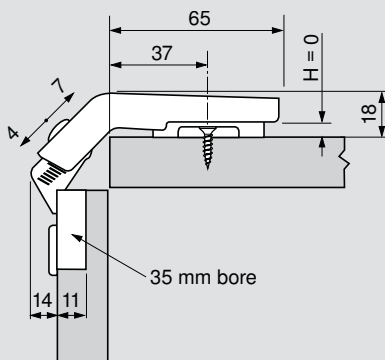


## Adjustment

The Spiral Tech cam adjustment of the CLIP top bi-fold hinge allows +4/-7 mm adjustment.



## General specifications



## Abbreviations

DW	=	Door width
G	=	Gap
H	=	Plate height
IW	=	Interior width
R	=	Reveal
T	=	Door thickness
W	=	Side panel width

Bi-fold hinges	Self close
Screw-on	79T8500.10
Press-in	79T8530.10





## Features

- 100° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- All metal hinge, nickel-plated

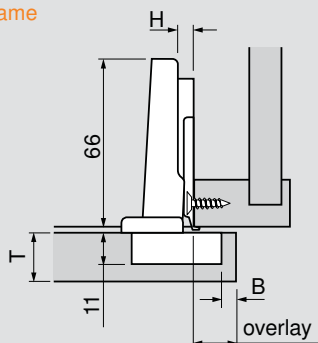
Minimum reveal table

	3	0.5	0.9	1.1	1.4	2.3	3.6
4	0.5	0.8	1.0	1.3	2.0	3.3	
5	0.4	0.8	1.0	1.2	1.8	3.0	
6	0.4	0.8	0.9	1.1	1.7	2.8	
B = boring dist.	16	18	19	20	22	24	
T = door thickness							

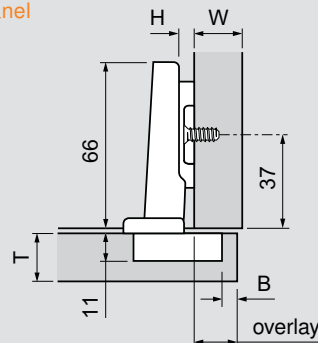
Thickness greater than 24 trial app. recommended

## Overlay

### Frame

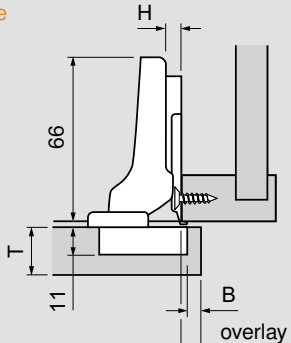


### Panel

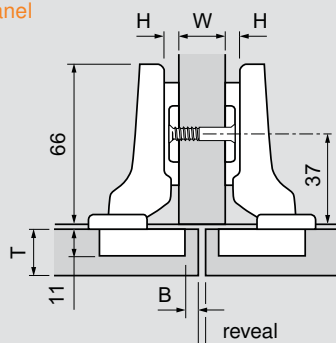


## Partial/twin overlay

### Frame

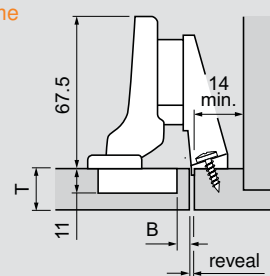


### Panel



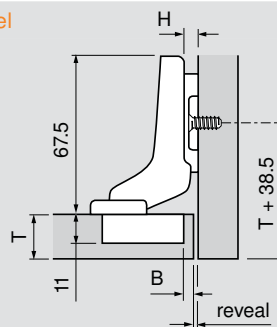
## Inset

### Frame



**NOTE:** For this application use a half-cranked hinge and mounting plate 175H5030.21

### Panel



H	Overlay					P	S
0	14	15	16	17	9	20	
3	11	12	13	14	12	23	
4.5	9.5	10.5	11.5	12.5	13.5	24.5	
6	8	9	10	11	15	26	
9	5	6	7	8	18	29	
	3	4	5	6	Fixed distance = 11		
	B = boring distance						

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

H	Overlay				P	S
0	4.5	5.5	6.5	7.5	18.5	30
	3	4	5	6	Fixed distance = 1.5	
	B = boring distance					

H	Reveal				W	P	S
0	7	5	3	1	16		
	10	8	6	4	19	18.5	30
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

H	Reveal				P	S
0	4	3	2	1	27	38
	3	4	5	6	Fixed dist. = -7	
	B = boring distance					

## Abbreviations

H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width

Straight-arm	Self close	Free swing
Screw-on	71M2550	70M2550.TL
Press-in	71M2580	70M2580.TL
INSERTA	71M2590B	

Half-cranked	Self close	Free swing
Screw-on	71M2650	70M2650.TL
Press-in	71M2680	
INSERTA	71M2690B	

Full-cranked	Self close	Free swing
Screw-on	71M2750	70M2750.TL
Press-in	71M2780	70M2780.TL
INSERTA	71M2790B	





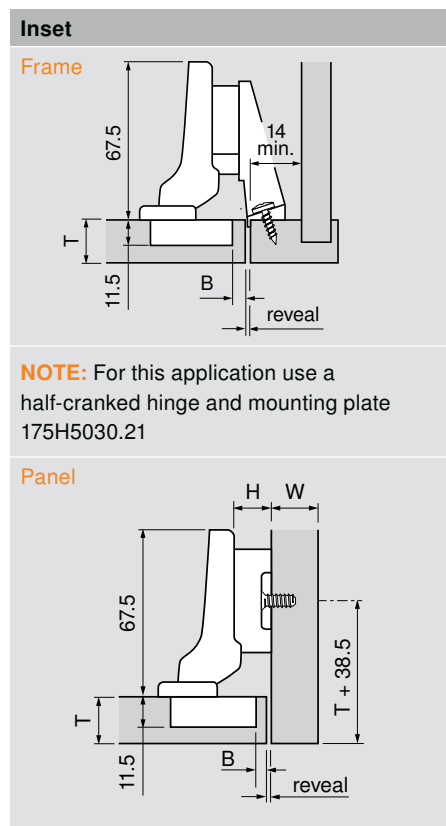
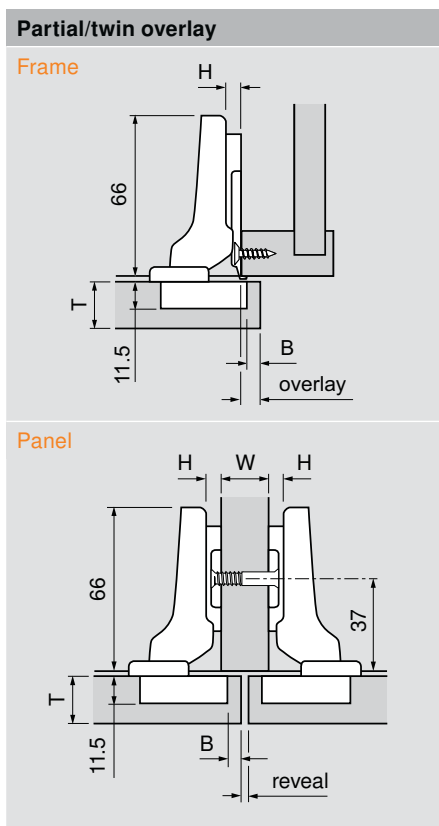
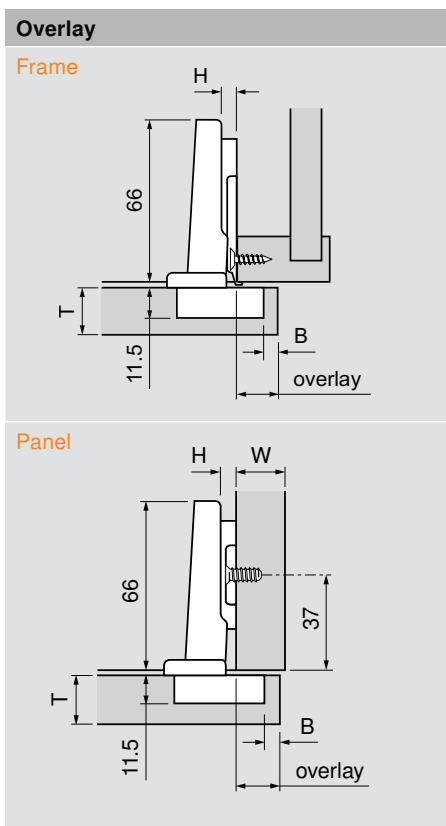
## Features

- 107° opening angle
- Three-dimensional adjustment
- Available with INSERTA tool-free attachment
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated

Minimum reveal table					
3	0.6	1.0	1.3	1.7	2.5
4	0.6	1.0	1.3	1.6	2.4
5	0.6	1.0	1.2	1.5	2.2
6	0.6	1.0	1.2	1.4	2.0
B = boring dist.	16	18	19	20	22
T = door thickness					

Thickness greater than 22 trial app. recommended

CLIP top/CLIP



**NOTE:** For this application use a half-cranked hinge and mounting plate 175H5030.21

H	Overlay				P	S
0	14	15	16	17	10	21
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	7	8	19	30
	3	4	5	6	Fixed distance = 11	
	B = boring distance					

**NOTE:** 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

H	Overlay				P	S
0	4.5	5.5	6.5	7.5	20	31
	3	4	5	6	Fixed distance = 1.5	
	B = boring distance					

H	Reveal				W	P	S
0	7	5	3	1	16		
	10	8	6	4	19	20	31
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

H	Reveal				P	S
9	4.5	3.5	2.5	1.5	29	40
	3	4	5	6	Fixed distance = -7.5	
	B = boring distance					

Abbreviations						
H	=	Plate height				
P	=	Door protrusion				
S	=	Side arm protrusion				
T	=	Door thickness				
W	=	Side panel width				

Straight-arm	Self close
Press-in	75M1580

Half-cranked	Self close
Press-in	75M1680

Half-cranked	Self close
Press-in	75M1680



# Euro hinge cover caps

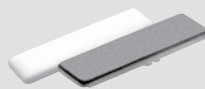
## Hinge arm cover cap



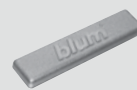
70.1503



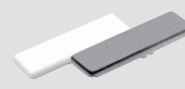
70.1503.BP  
(Blum logo)



90M2103.01



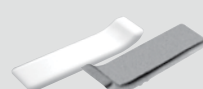
90M2103.22  
(Blum logo)



90M2203



70.1663



94M3203



80.6107



80.6507



70.7503

		Nylon	Steel
100°, 107°, 110°, 110°+, 120°, 120°+, thick door and bi-fold hinges	Straight-arm	90M2103.01	70.1503
	With Blum logo	90M2103.22	70.1503.BP
	Cranked-arm	94M3203	70.1663
170° hinges		80.6107	80.6507
155° hinges			70.7503
Diagonal 45°, blind corner, narrow alum. door hinges		90M2103.01	70.1503
Angled hinges		90M2203	70.1503

**NOTE:** Custom logo cover caps available (minimums apply)

## Hinge cup cover cap

- For use with CLIP top hinges only
- Suitable for screw-on, press-in and EXPANDO hinge cups
- Clip on attachment/removal
- Steel, nickel-plated



Part no.

Hinge cup cover cap

70T1504

## Hinge cup cover cap

- For use with CLIP top 110° and 110°+ hinges only
- Suitable for screw-on, press-in and EXPANDO hinge cups
- Clip on attachment/removal
- Steel, nickel-plated



Part no.

Hinge cup cover cap

70T3504

## 3 mm spacer



- Reduces overlays by 3 mm
- Mounts under CLIP wing mounting plates
- Brown nylon

Part no.

3 mm spacer

181.6130

## Hinge cup spacer



- For use with CLIP top 110° and 110°+ hinges only
- 1.5 mm spacer for use under the hinge cup
- For retrofitting existing doors with a cup depth less than 13 mm

Part no.

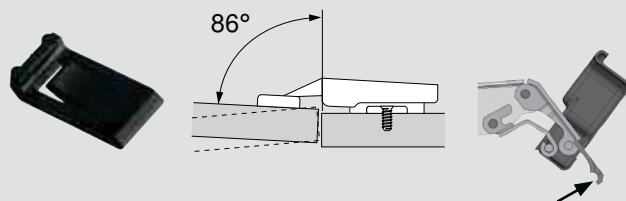
Hinge cup spacer

70T3507.21



# CLIP top and CLIP angle restriction clips

## Angle restriction clip for 107° hinges



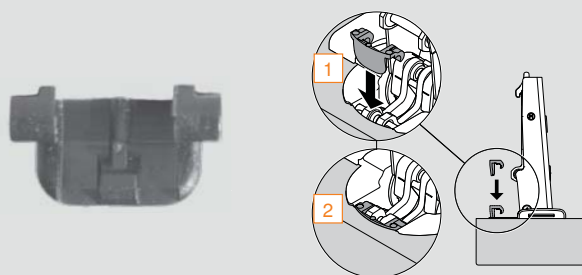
- Reduces opening angle of the CLIP top and CLIP 107° to 86°
- For use with CLIP top and CLIP 107° hinges only
- Installs quickly and easily tool-free
- Non-removable
- Black nylon

Part no.

86° Angle restriction clip

74.1103

## Angle restriction clip for 110° hinges



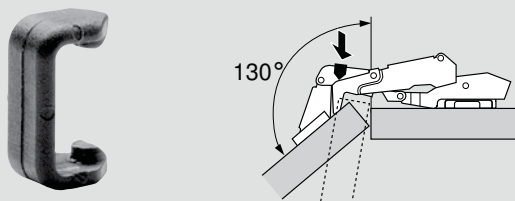
- Reduces opening angle of the CLIP top 110° and 110°+ to 86°
- For use with CLIP top 110° and 110°+ hinges only
- Installs quickly and easily tool-free either before or after the hinge has been installed
- Black nylon

Part no.

86° Angle restriction clip

70T3553

## Angle restriction clip for 170° hinges



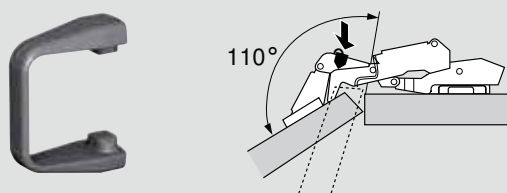
- Reduces opening angle of the CLIP top 170° to 130°
- Required for special applications of the 170° hinge
- Installs quickly and easily tool-free
- Black nylon

Part no.

130° Angle restriction clip

70.6103

## Angle restriction clips for 155° hinges



- Reduces opening angle of CLIP top 155° hinge to 110° or 92°
- For use with 155° hinges only
- Installs quickly and easily tool-free
- Gray nylon

Part no.

110° Angle restriction clip

70T7503N

92° Angle restriction clip

70T7503N09





### CLIP top angled hinges from +45° to -45°

Angled hinges provide a tremendous array of possibilities for the professional cabinet designer. Specifically designed for panel constructed (frameless) cabinets, the system accommodates cabinet front angles from -45° to +45°, in 5° increments. This is achieved by combining any of ten angled hinges, or three standard hinges with a wedge spacer and any of five standard CLIP mounting plates.

All CLIP top hinges feature "Spiral Tech" depth adjustment which eliminates loosening and retightening the adjustment screws. When the doors are ready to be attached to the cabinet, the time-proven CLIP mechanism connects the hinge arm to the mounting plate, again without tools. All components are nickel-plated and have self-closing action, eliminating the need for additional hardware.









**Step 1.** On page 40, the angle-to-style cross-reference provides an overview of all the angled hinge applications available to assist with your specific application.

**Step 2.** Once the cabinet front angle is determined, select the row for that angle from the first column. There are five different possibilities for positive angles and two for negative angles.

**Step 3.** Cross-reference the angle to the style to find the hinge/plate/wedge combination and the specification number. Specifications on pages 41 through 47 are in numerical order and show all the details.



## Positive angle hinges

	Part no.		Part no.		Part no.		Part no.
+15°	<b>79A9494BT</b>	+20°	<b>79A9595BT</b>	+30° II*	<b>79A9596BT</b>	+30° III*	<b>79A9496BT</b>
	Part no.		Part no.		Part no.		
+45° I*	<b>79A9698BT</b>	+45° II*	<b>79T5590B</b>	+45° III*	<b>79A9498BT</b>		

\* These angled hinges are marked I, II, or III on the hinge arm for differentiation (see photo).





## Negative angle hinges

	Part no.		Part no.		Part no.		
-15°	<b>79A5493BT</b>	-30°	<b>79A5491BT</b>	-45°	<b>79A5490BT</b>		

## Standard thick door hinges used in angled applications

	Part no.		Part no.		Part no.		
95° straight-arm	<b>71T9590B</b>	95° half-cranked	<b>71T9690B</b>	95° full-cranked	<b>71T9790B</b>		

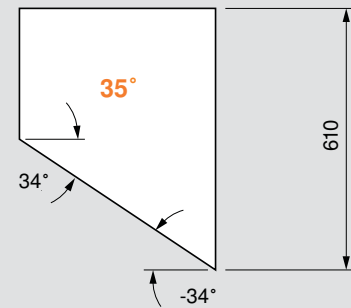
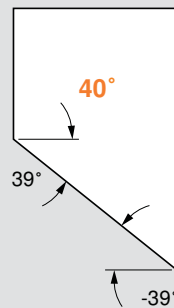
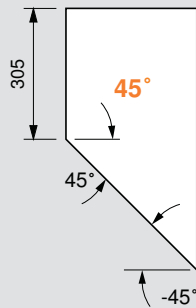
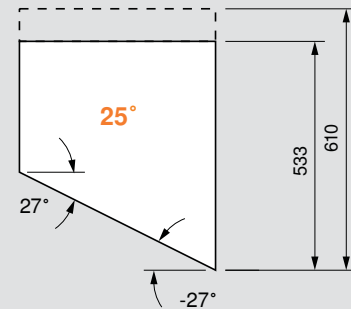
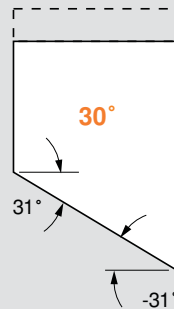
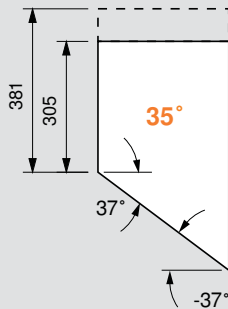
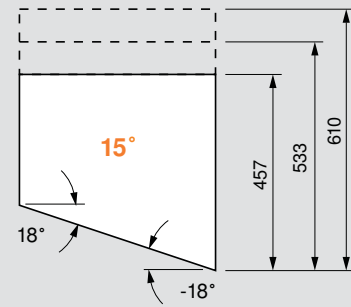
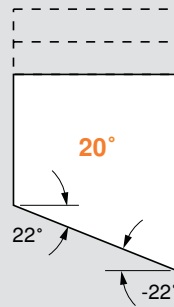
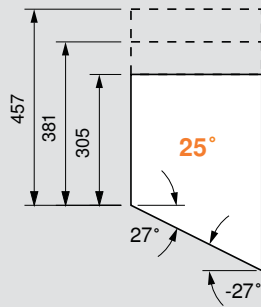
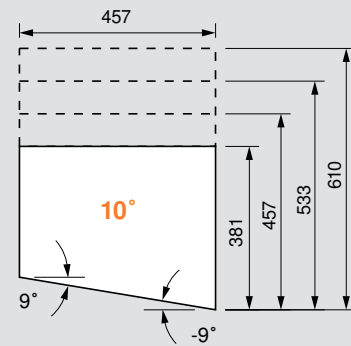
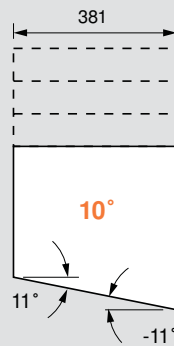
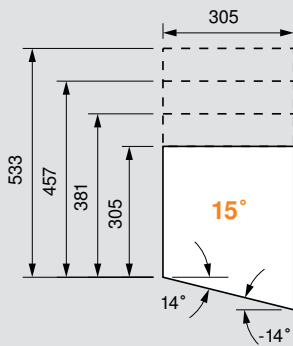
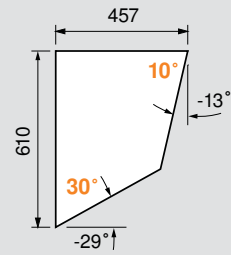
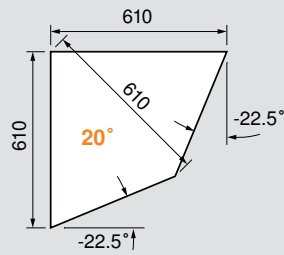
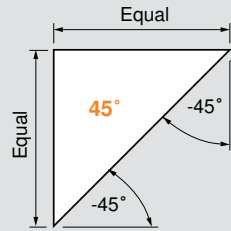
## Angled spacer wedges for positive and negative angled hinges

2 mm thickness		4 mm thickness		5 mm thickness		7 mm thickness	
	Part no.		Part no.		Part no.		Part no.
-5°	<b>171A5500</b>	+5°	<b>171A5010</b>	+5°	<b>171A5040</b>	+5°	<b>171A5070</b>



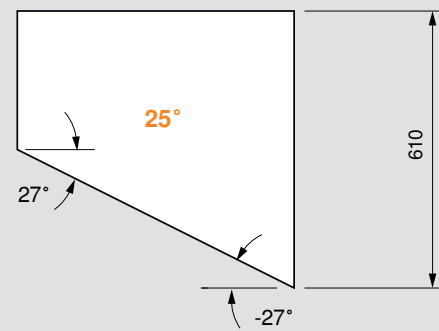
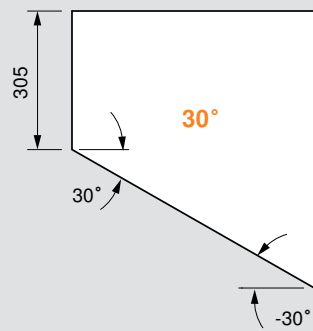
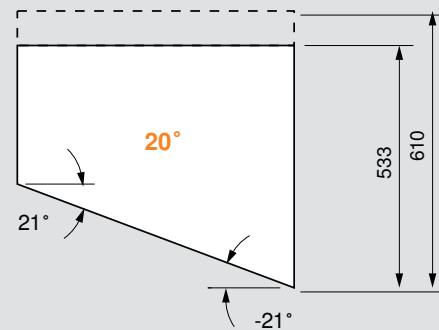
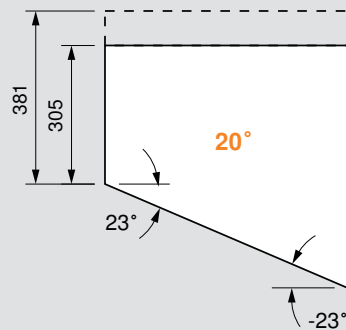
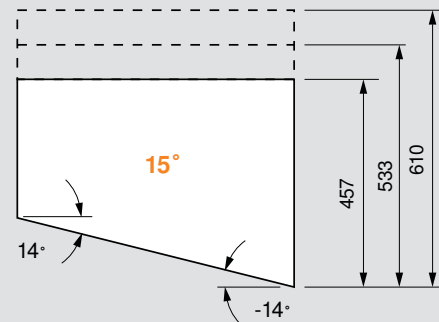
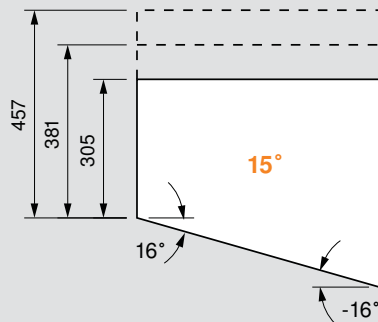
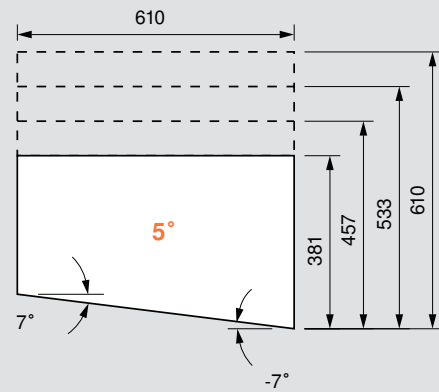
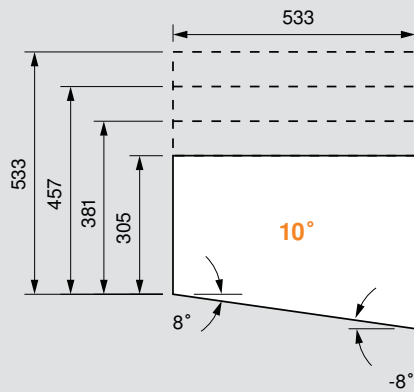
# Angled cabinet configurations

Match desired configuration to angle-to-style cross-reference chart on page 38





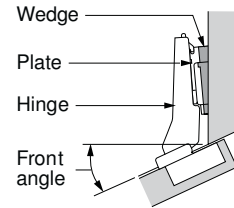
Match desired configuration to angle-to-style cross-reference chart on page 38



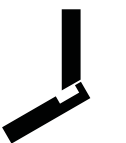
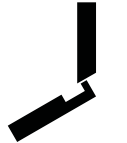
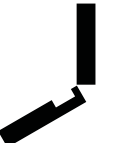
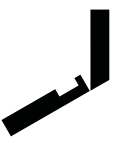
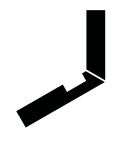




# Angle-to-style cross-reference

The chart on this page shows the hinge, plate and wedge (or spacer) needed for each angled application. The legend below shows the order of the part numbers.



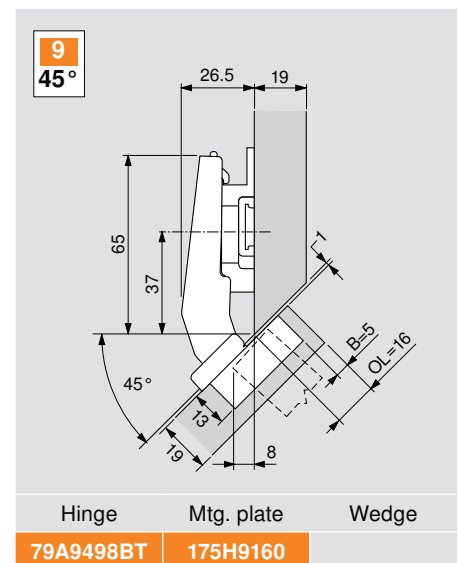
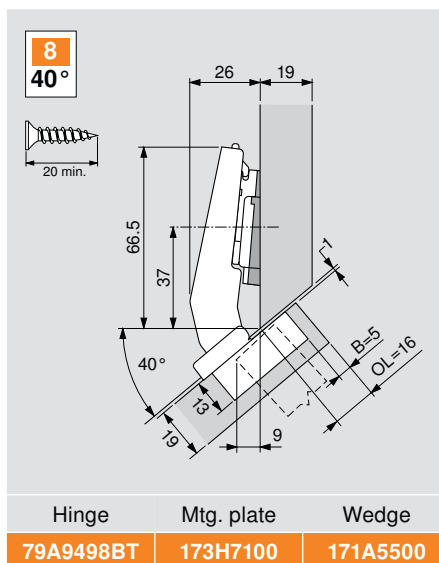
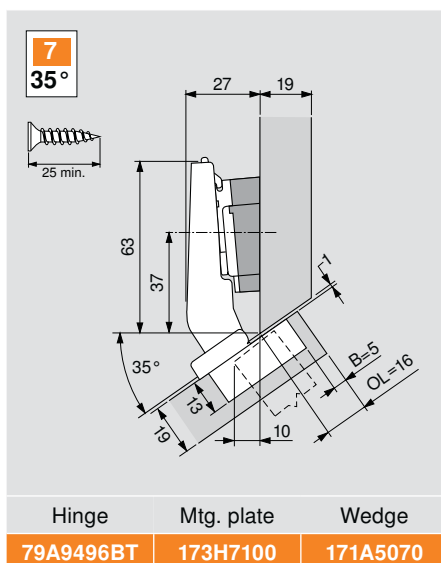
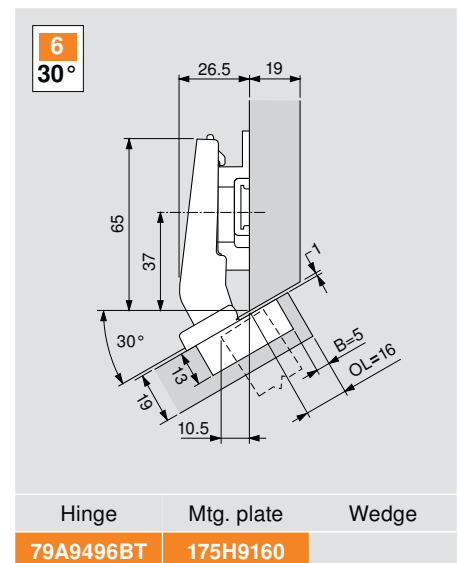
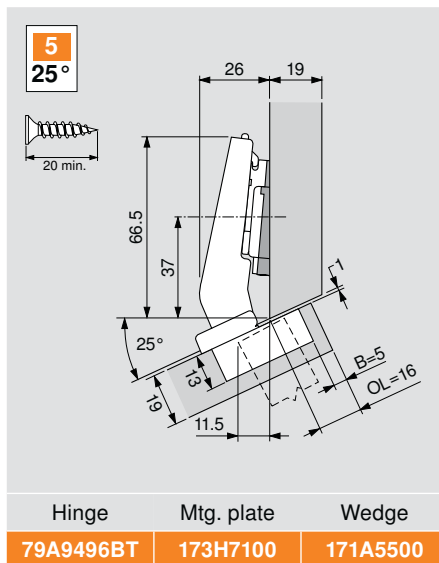
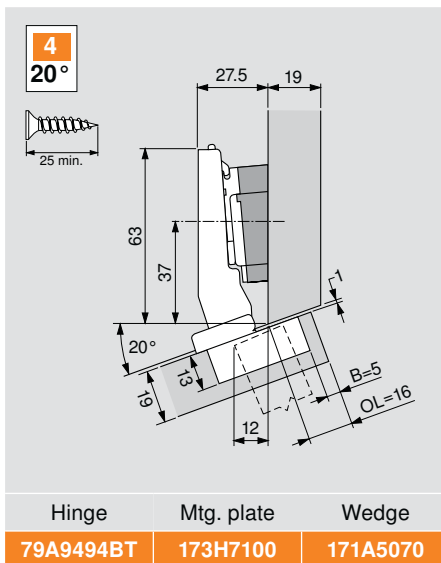
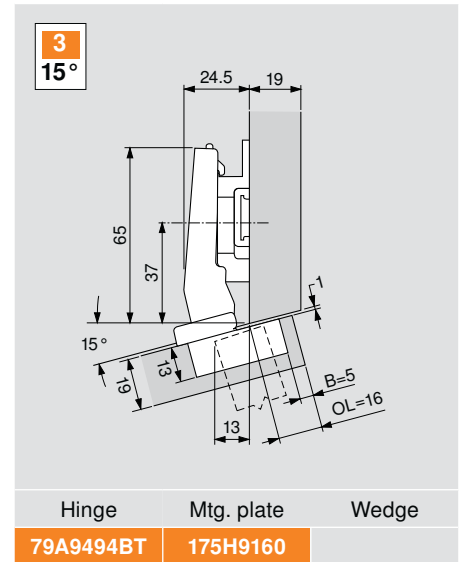
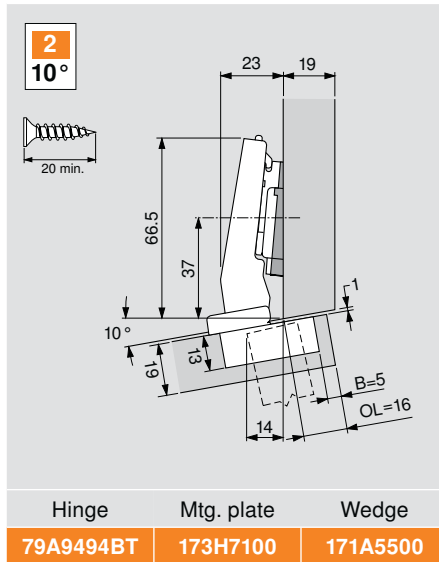
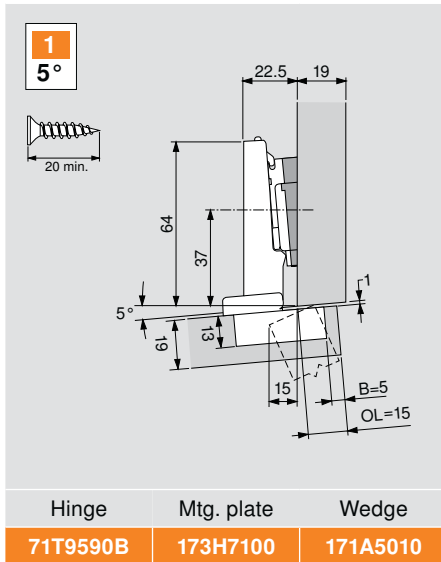
		Application number
Hinge	CLIP top hinge	Part number
Plate	CLIP mounting plate	Part number
Wedge/spacer	May or may not be required	Part number

	Positive angles						Negative angles				
											
	Maximum overlay	Partial overlay	Corner merge	Inset door	Mitered corner		Maximum overlay	Inset door			
5°	1	10	19	27		-5°	42	51			
	71T9590B	71T9590B	71T9690B	71T9790B			71T9590B	71T9690B			
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100			
	171A5010	171A5010	171A5070	171A5010			171A5500	171A5500			
10°	2	11	20	28		-10°	43	52			
	79A9494BT	79A9494BT	79A9494BT	79A9494BT			79A5493BT	79A5493BT			
	173H7100	173H7100	175H9190.22	175H9190.22			173H7100	175H7190			
	171A5500	171A5500	171A5500	171A5500			171A5010	171A5010			
15°	3	12	21	29		36	-15°	44	53		
	79A9494BT	79A9494BT	79A9595BT	79A9595BT		79A9595BT		79A5493BT	79A5493BT		
	175H9160	175H9190	173H7130	175H9190		173H7100		173H7100	175H9190.22		
			171A5500	171A5500		171A5500					
20°	4	13	22	30	37	-20°	45	54			
	79A9494BT	79A9595BT	79A9595BT	79A9595BT	79A9595BT		79A5493BT	79A5493BT			
	173H7100	173H7100	175H9190	175H9190.22	175H9160		173H7100	175H9160			
	171A5070						171A5500	171A5500			
25°	5	14	23	31	38	-25°	46	55			
	79A9496BT	79A9595BT	79A9596BT	79A9596BT	79A9596BT		79A5491BT	79A5491BT			
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	175H7190			
	171A5500	171A5010	171A5500		171A5500		171A5040	171A5070			
30°	6	15	24	32	39	-30°	47				
	79A9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT		79A5491BT				
	175H9160	173H7100	175H9190	175H9190.22	173H7130		173H7130				
35°	7	16	25	33	40	-35°	48				
	79A9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT		79A5491BT				
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100				
	171A5070	171A5010	171A5070	171A5010	171A5040		171A5500				
40°	8	17		34		-40°	49				
	79A9498BT	79A9498BT		79A9698BT			79A5490BT				
	173H7100	175H9160		175H9190			173H7100				
	171A5500	171A5500		171A5500			171A5040				
45°	9	18	26	35	41	-45°	50				56
	79A9498BT	79T5590B	79A9698BT	79T5590B	79A9698BT		79A5490BT				79A5490BT
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130				175H7190
											181.6130





## Positive angle applications

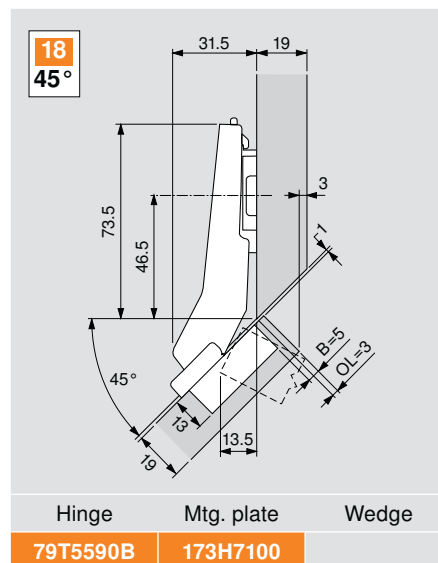
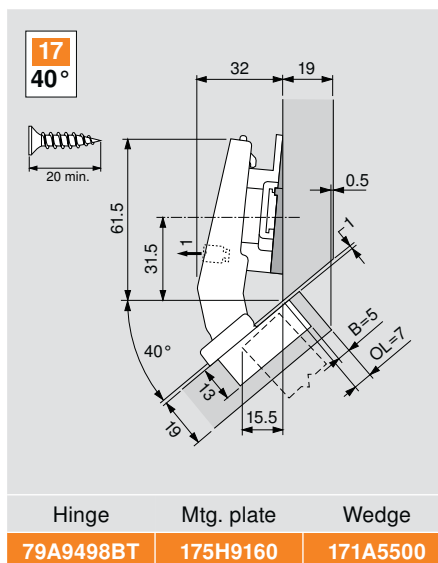
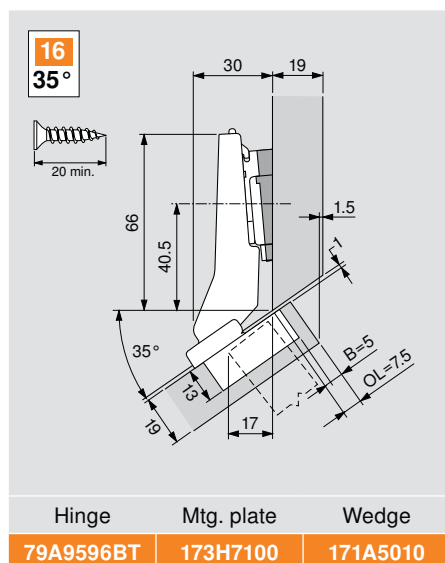
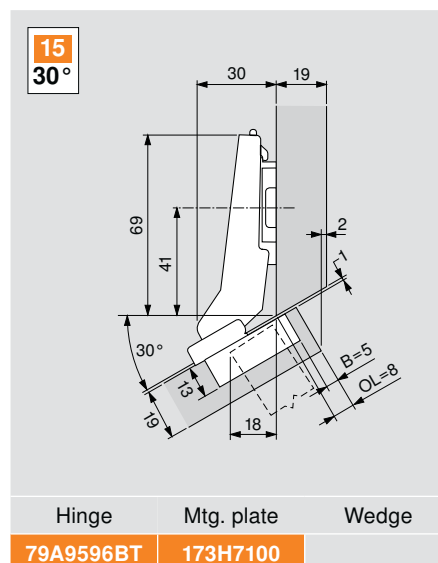
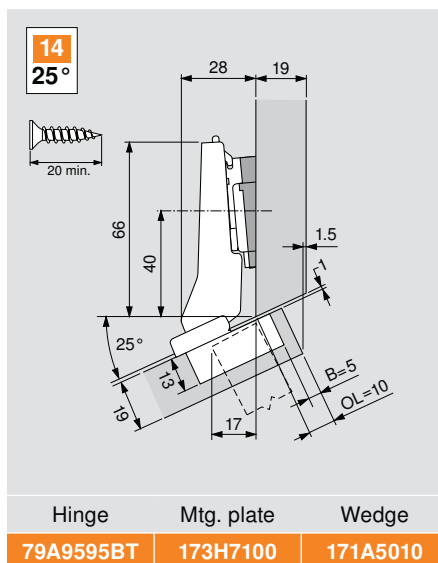
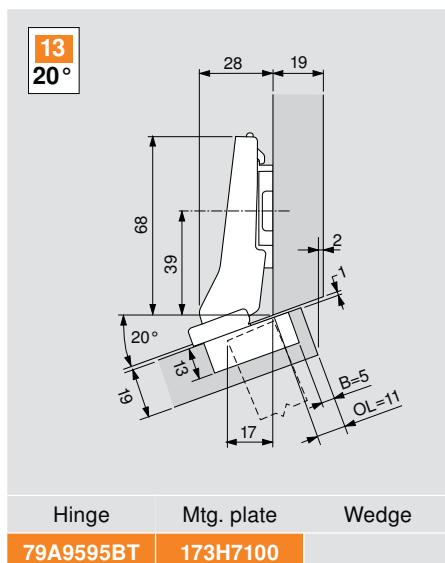
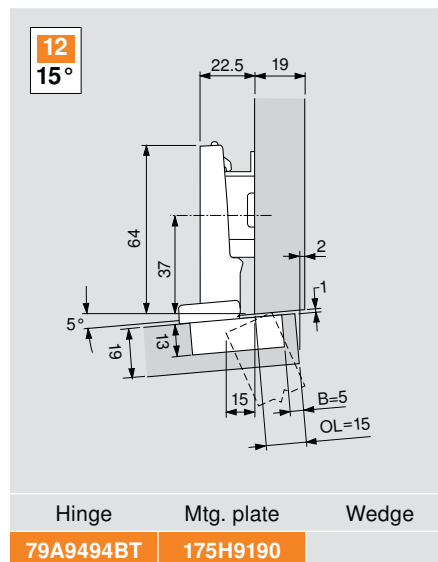
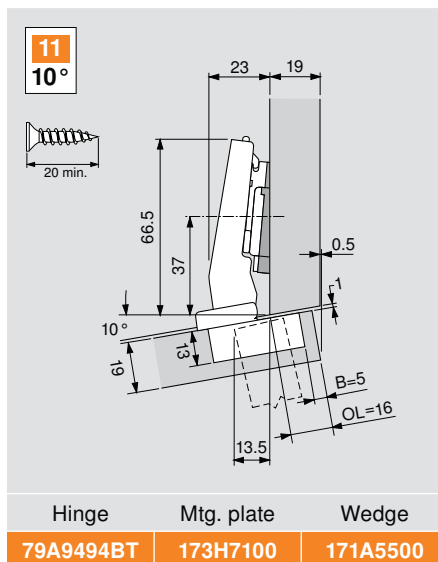
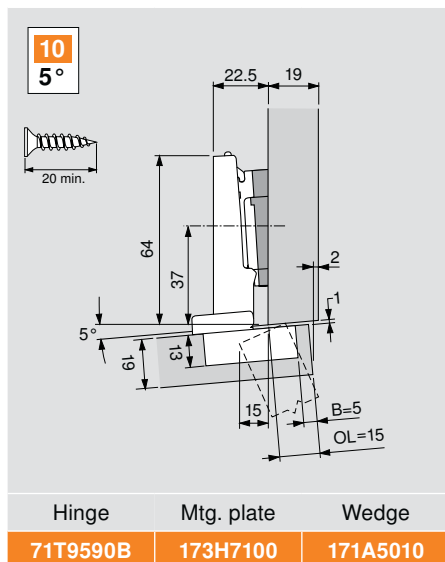


Angled





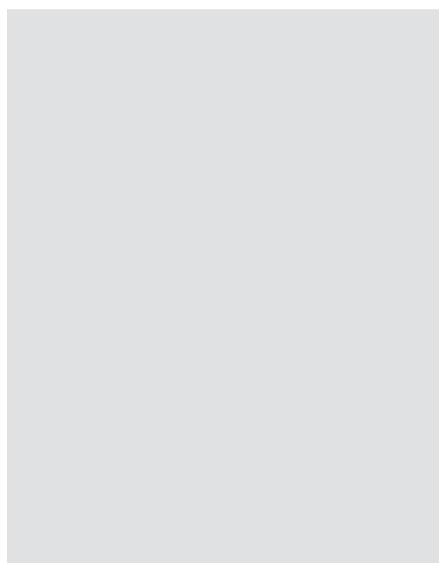
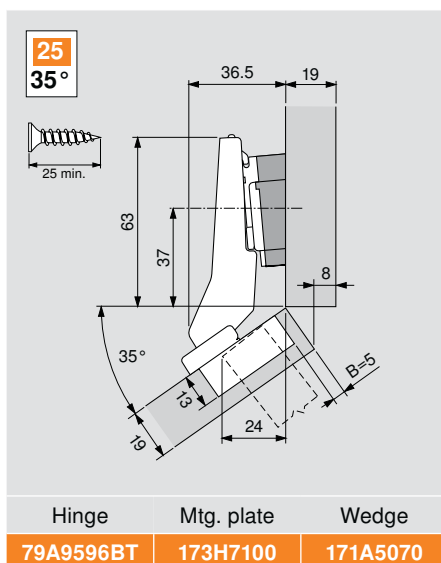
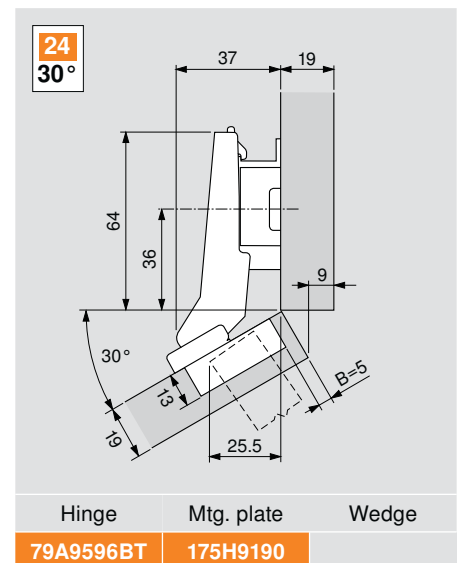
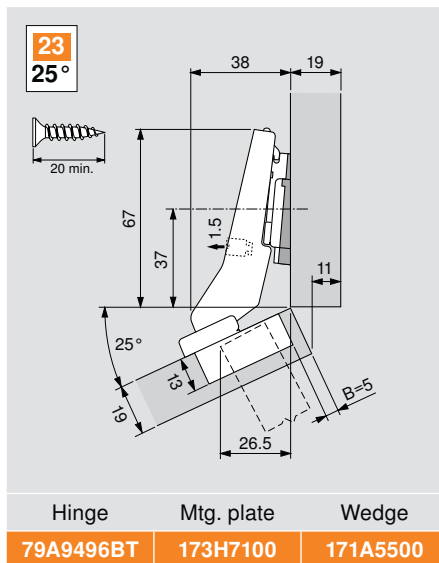
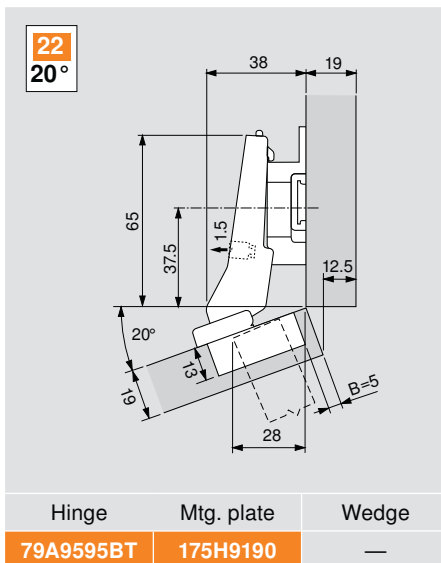
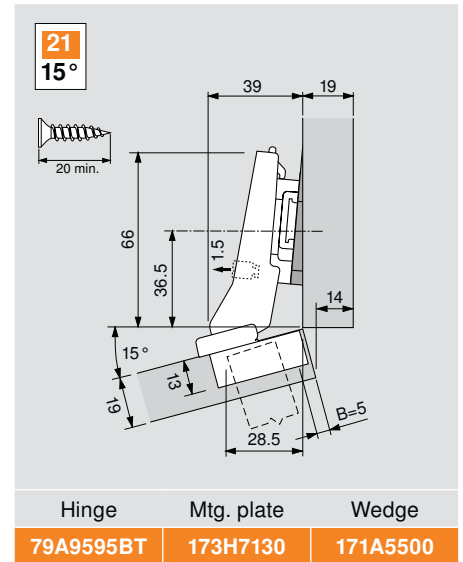
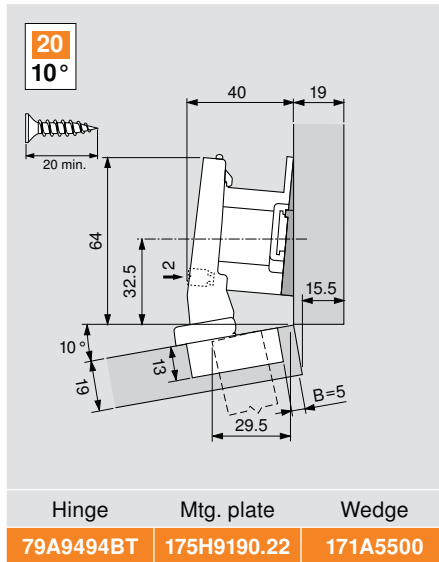
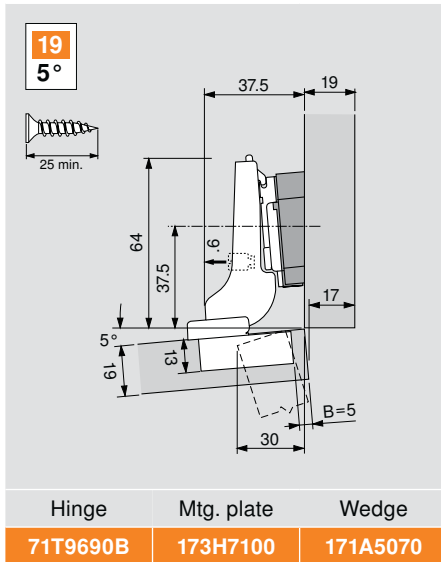
## Positive angle applications







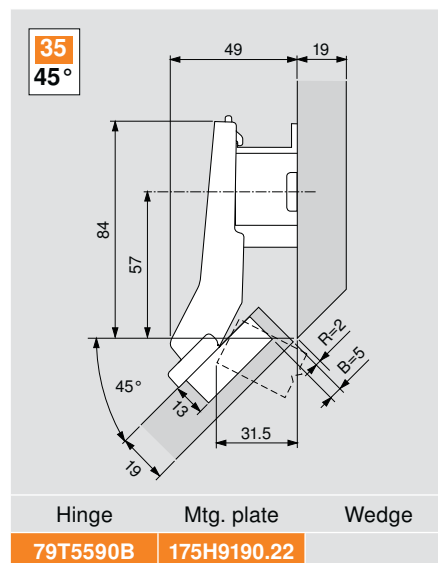
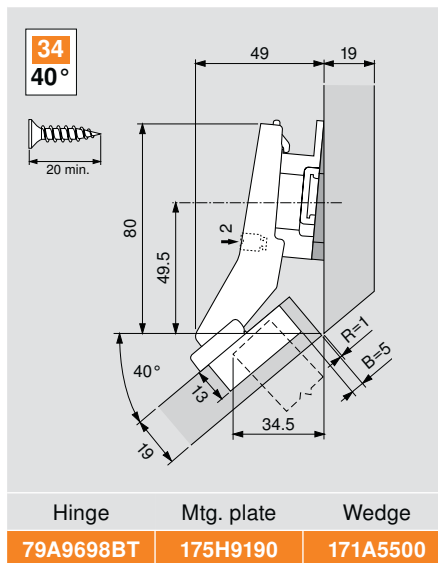
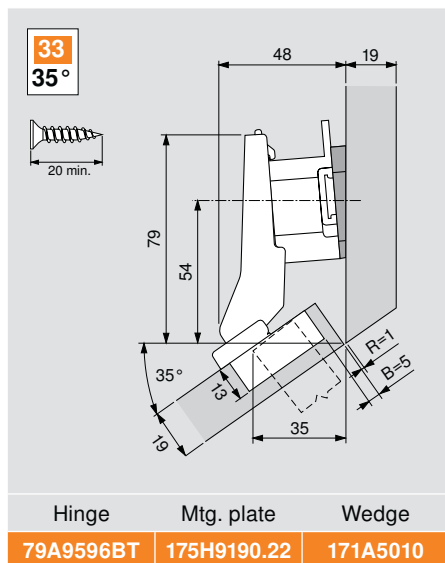
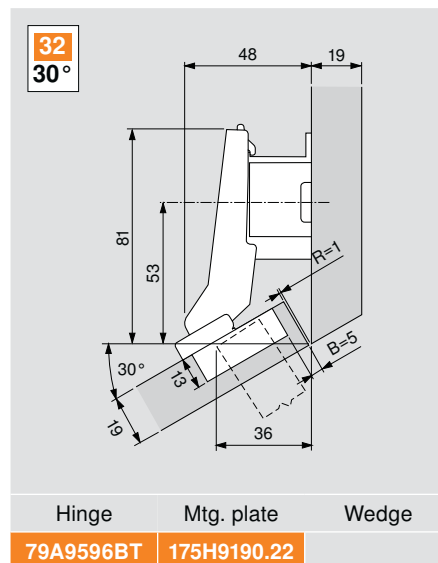
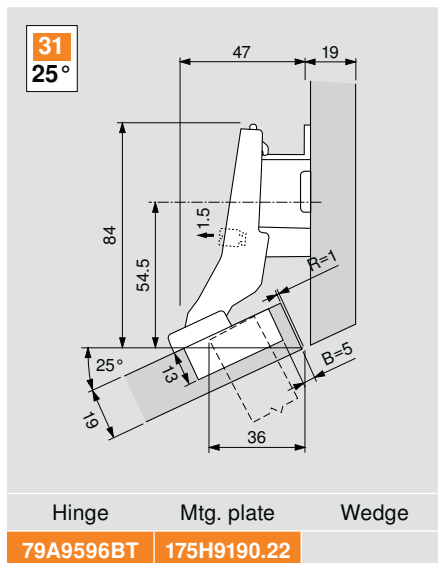
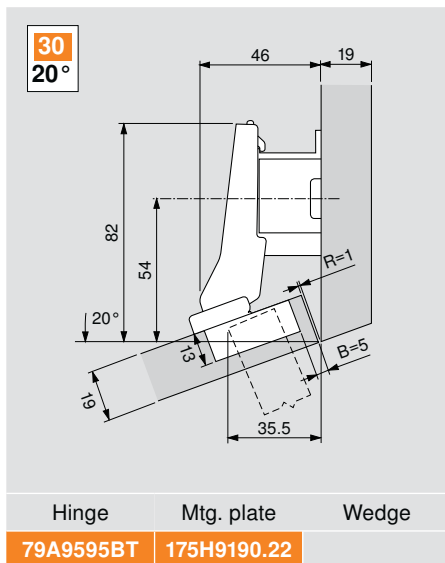
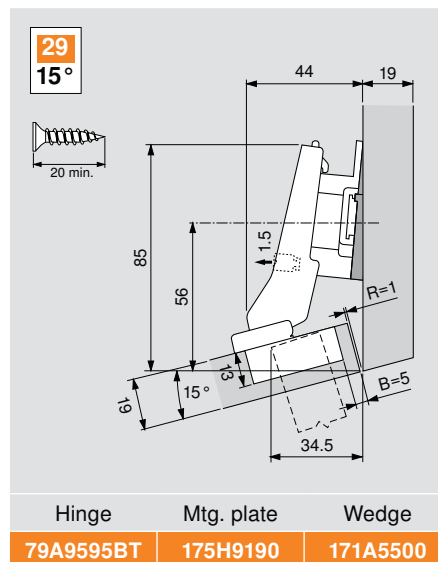
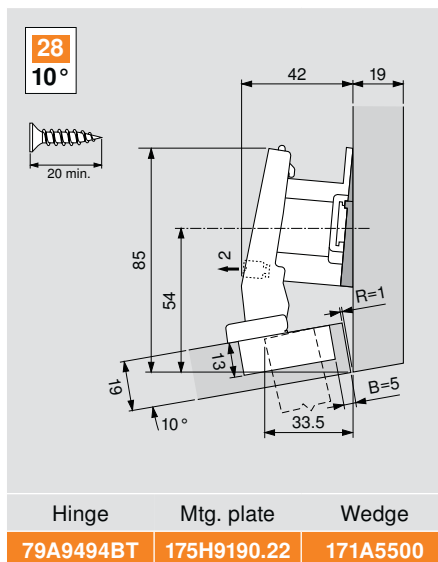
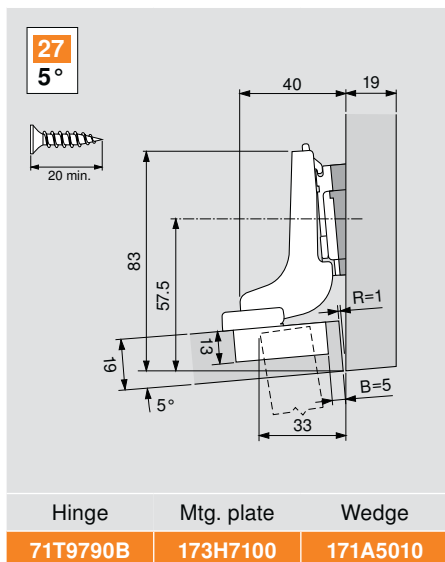
## Positive angle applications



Angled



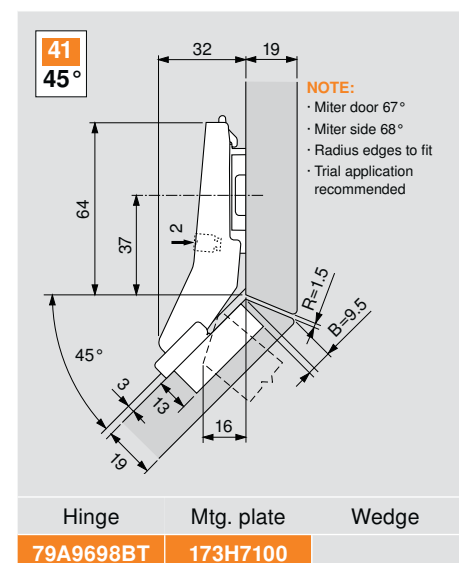
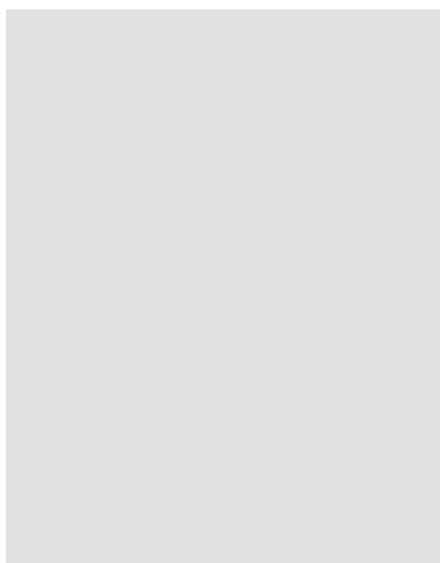
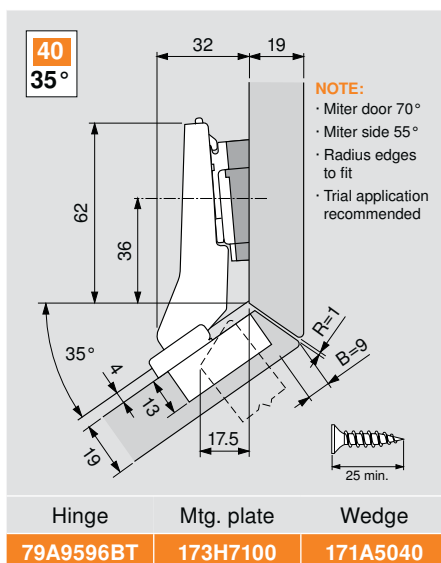
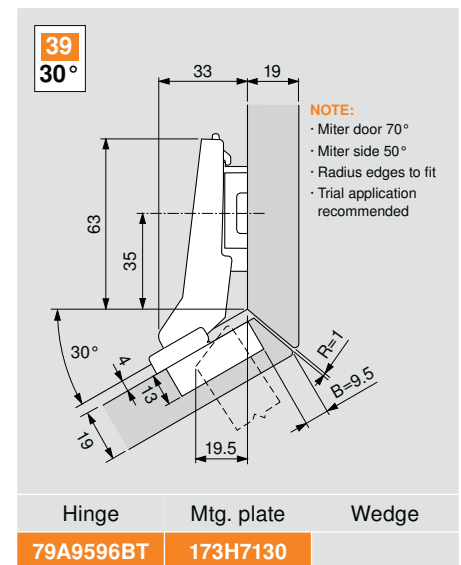
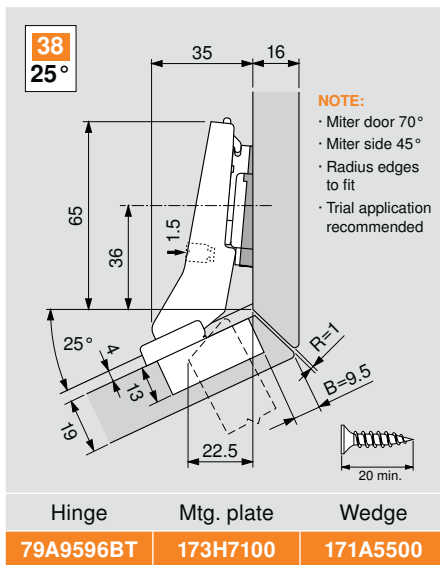
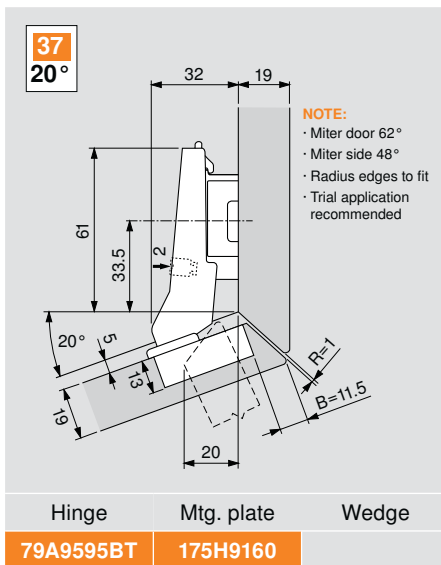
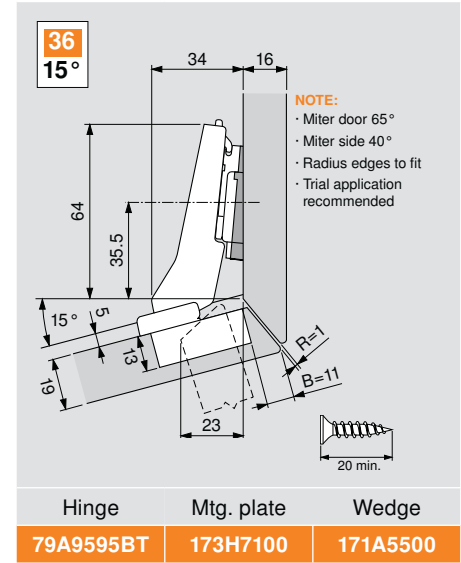
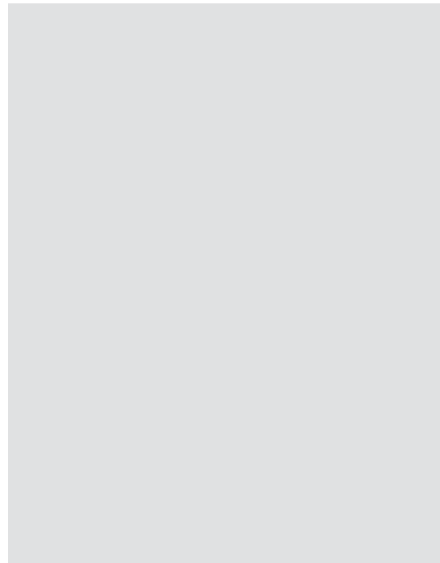
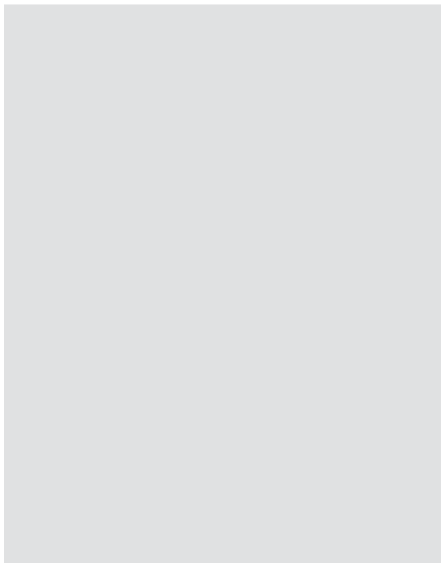
## Positive angle applications





# Mitered corner specifications

## Positive angle applications

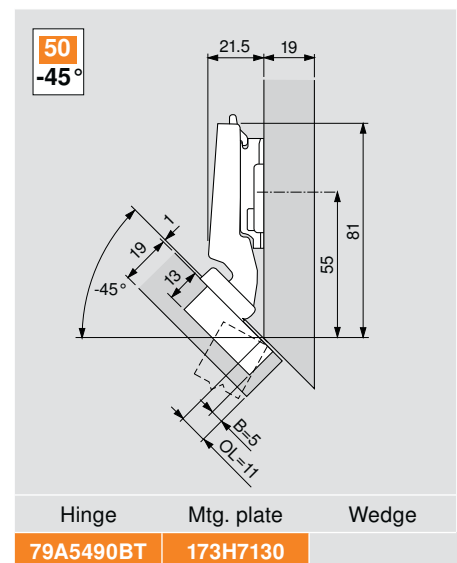
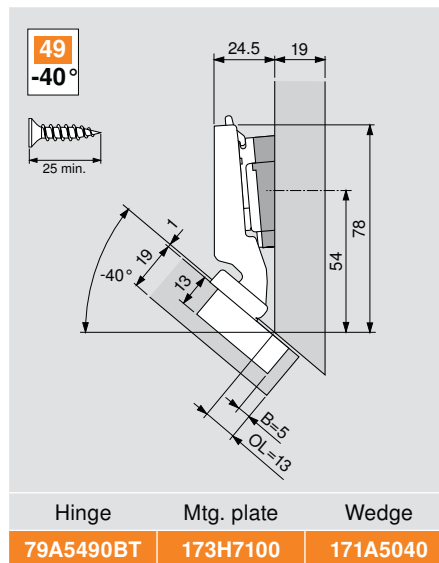
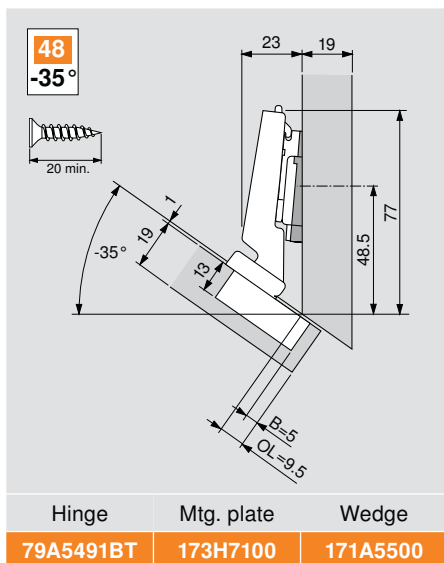
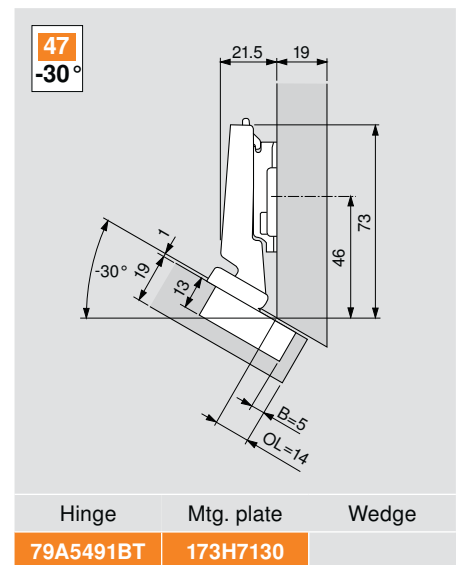
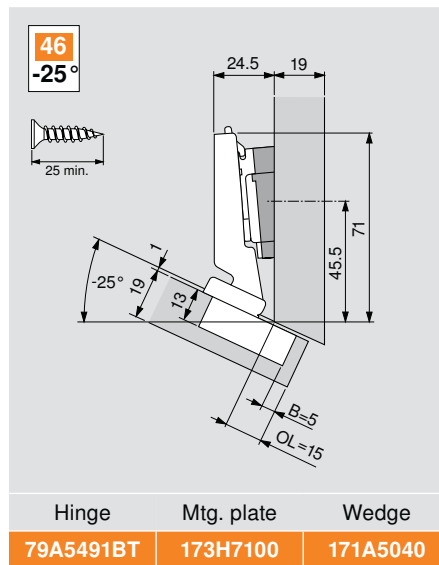
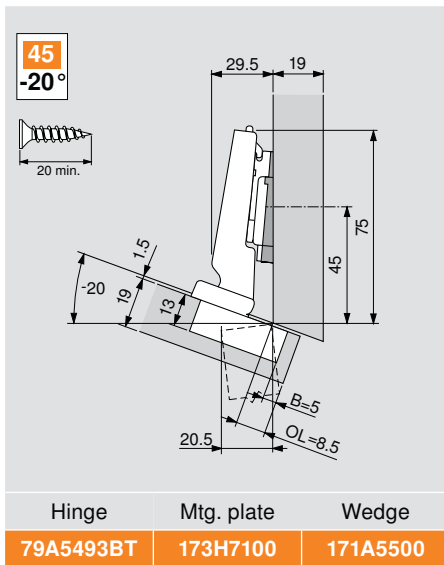
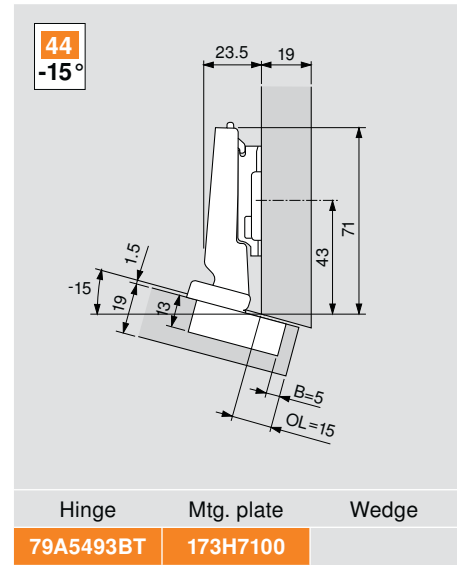
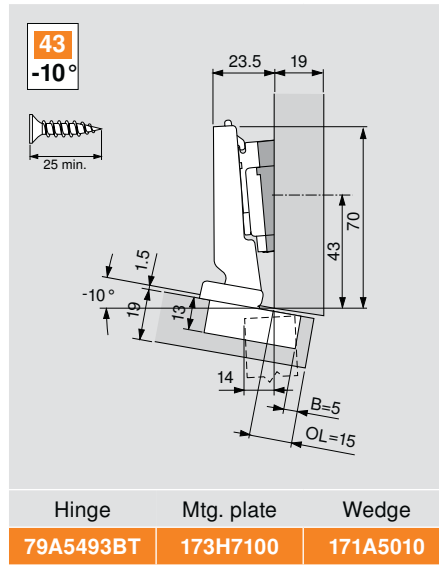
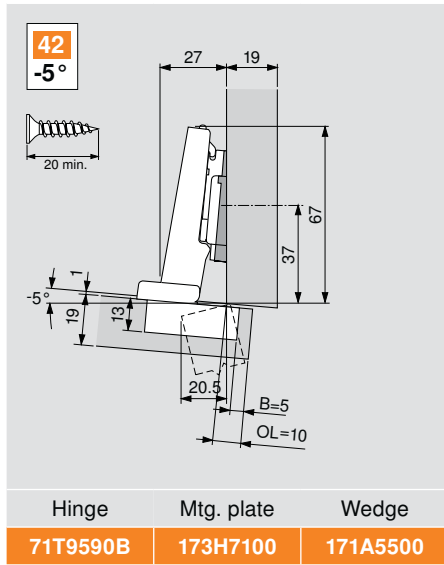


Angled





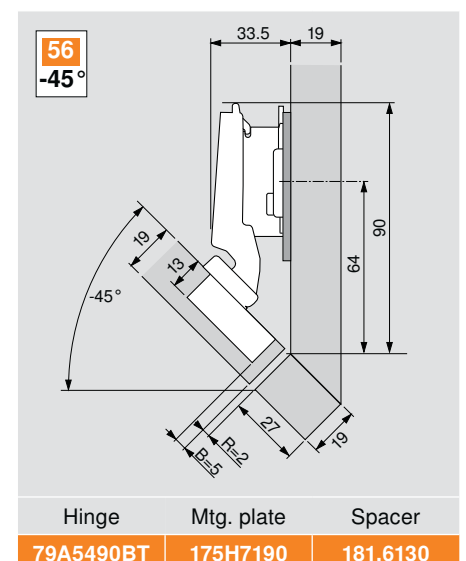
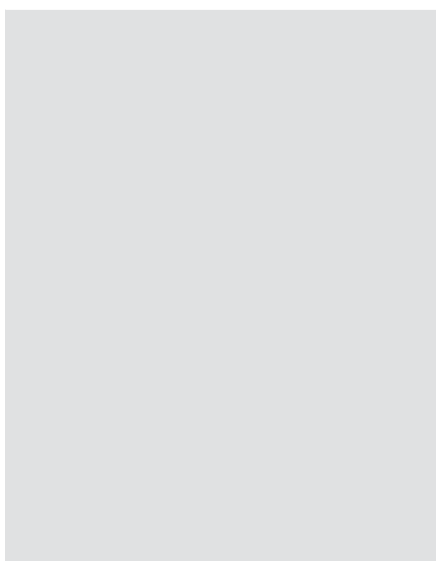
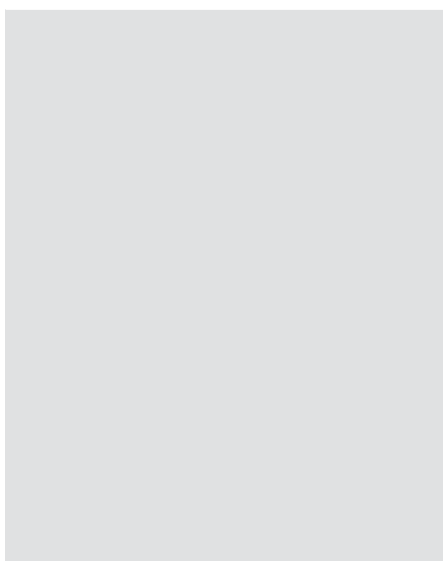
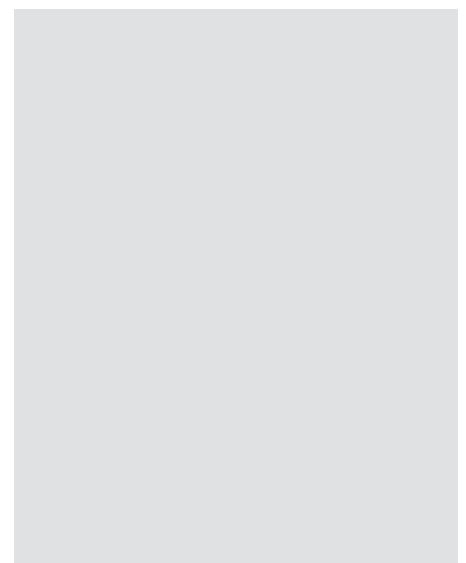
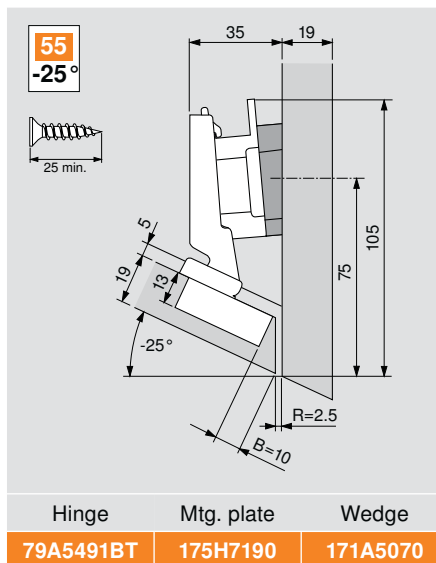
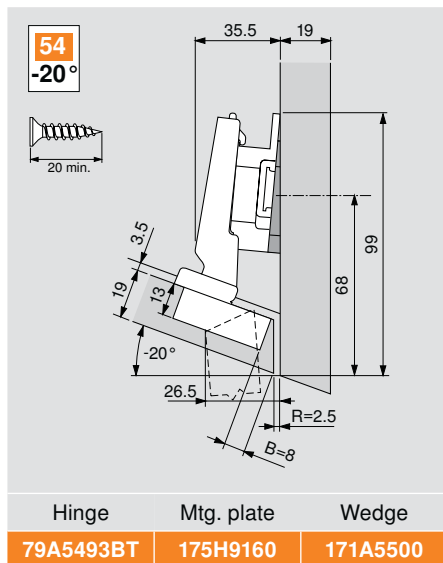
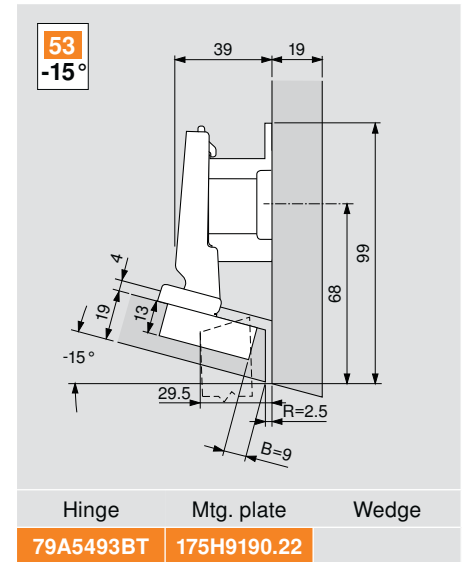
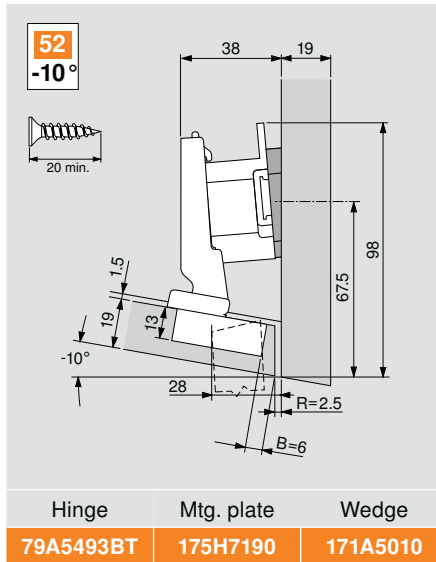
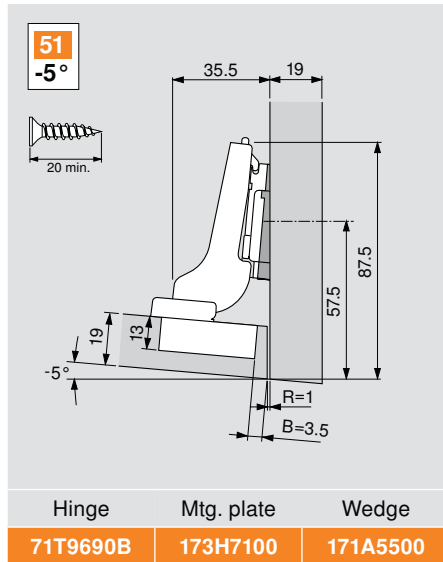
## Negative angle applications







## Negative angle applications

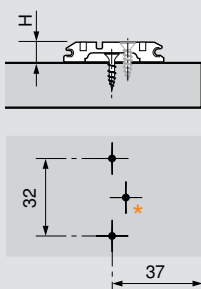






## Standard one-piece wing mounting plates

### Wood screw



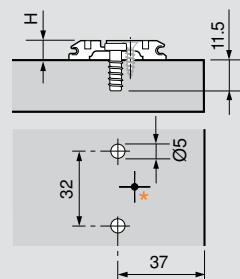
- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H) **173L6100**

3 plate height (H) **173L6130**

### System screw



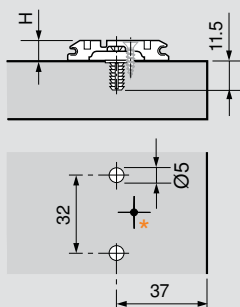
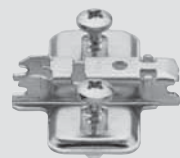
- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H) **173L8100**

3 plate height (H) **173L8130**

### EXPANDO



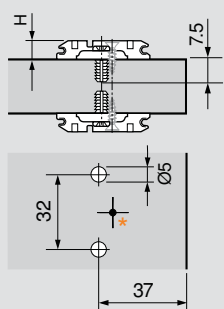
- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H) **174E6100.01**

3 plate height (H) **174E6130.01**

### EXPANDO (twin application)

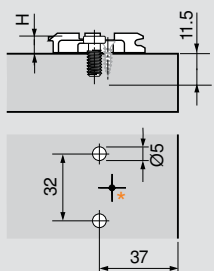


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H) **174E610Z**

### System screw



- Zinc die-cast, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H) **175L8100**


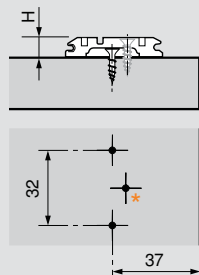

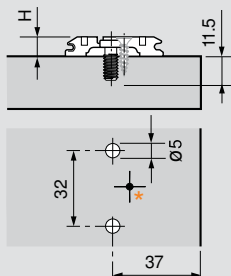

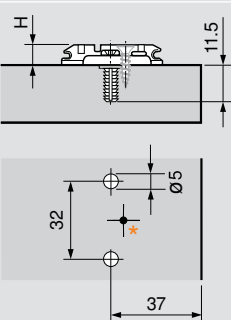

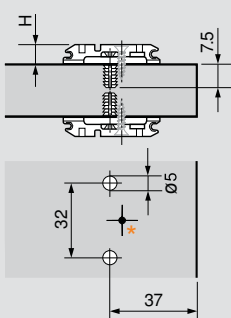

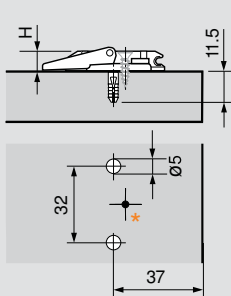
3 plate height (H) **175L8130**

9 plate height (H) **175L8190**

\*Add additional wood screw if used with wide angled hinges





Cam adjustable wing mounting plates						
Wood screw	 	<ul style="list-style-type: none"><li>Steel, nickel-plated</li><li>Attached with #6 x 5/8" wood screws</li><li>Cam height adjustment ±2 mm</li></ul> <p>Part no.</p> <table><tr><td>0 plate height (H)</td><td>173H7100</td></tr><tr><td>3 plate height (H)</td><td>173H7130</td></tr></table>	0 plate height (H)	173H7100	3 plate height (H)	173H7130
0 plate height (H)	173H7100					
3 plate height (H)	173H7130					
Wood screw or system screw	 	<ul style="list-style-type: none"><li>Steel, nickel-plated</li><li>Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws</li><li>Cam height adjustment ±2 mm</li></ul> <p>Part no.</p> <table><tr><td>0 plate height (H)</td><td>173H9100</td></tr><tr><td>3 plate height (H)</td><td>173H9130</td></tr></table>	0 plate height (H)	173H9100	3 plate height (H)	173H9130
0 plate height (H)	173H9100					
3 plate height (H)	173H9130					
EXPANDO	 	<ul style="list-style-type: none"><li>Steel, nickel-plated</li><li>Attached with pre-mounted screws with EXPANDO dowels (618.1500)</li><li>Cam height adjustment ±2 mm</li></ul> <p>Part no.</p> <table><tr><td>0 plate height (H)</td><td>174H7100E</td></tr><tr><td>3 plate height (H)</td><td>174H7130E</td></tr></table>	0 plate height (H)	174H7100E	3 plate height (H)	174H7130E
0 plate height (H)	174H7100E					
3 plate height (H)	174H7130E					
EXPANDO (twin application)	 	<ul style="list-style-type: none"><li>Steel, nickel-plated</li><li>Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)</li><li>Cam height adjustment ±2 mm</li></ul> <p>Part no.</p> <table><tr><td>0 plate height (H)</td><td>174H710ZE</td></tr></table>	0 plate height (H)	174H710ZE		
0 plate height (H)	174H710ZE					
INSERTA	 	<ul style="list-style-type: none"><li>Steel (closing lever – zinc die-cast, nickel-plated)</li><li>Tool-free assembly with INSERTA self-anchoring feature</li><li>Cam height adjustment ±2 mm</li></ul> <p>Part no.</p> <table><tr><td>0 plate height (H)</td><td>174H7100I</td></tr><tr><td>3 plate height (H)</td><td>174H7130I</td></tr></table>	0 plate height (H)	174H7100I	3 plate height (H)	174H7130I
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3 plate height (H)	174H7130I					

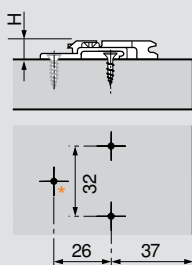
\*Add additional wood screw if used with wide angled hinges



# CLIP mounting plates

## Standard two-piece wing mounting plates

### Wood screw

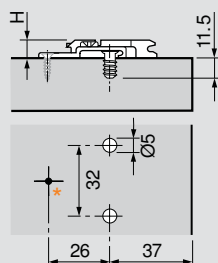


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	175H7100
3 plate height (H)	175H7130
9 plate height (H)	175H7190

### Wood screw or system screw



- Zinc die-cast, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Height adjustment  $\pm 2$  mm

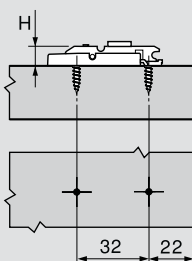
Part no.

0 plate height (H)	175H9100
3 plate height (H)	175H9130
6 plate height (H)	175H9160
9 plate height (H)	175H9190
18 plate height (H)	175H9190.22

\* Add additional wood screw if used with wide angled hinges

## Cam adjustable In-line mounting plates

### Wood screw

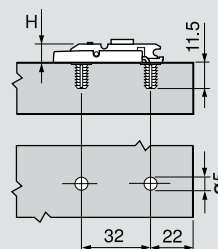
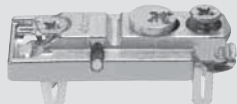


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment  $\pm 2$  mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	175H5400
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### EXPANDO



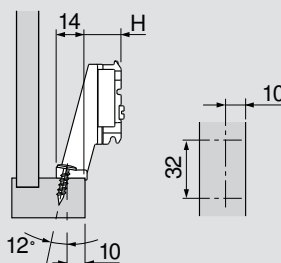
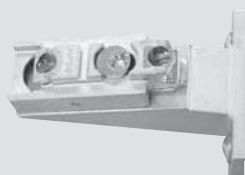
- Zinc die-cast, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment  $\pm 2$  mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	177H5400E
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## Inset face frame adapter

### Truss head screw



- Zinc die-cast, nickel-plated
- Attached with #8 x 3/4" truss head screws
- Can be used with applied bead molding
- Cam height adjustment  $\pm 2$  mm
- Use with half-cranked hinges only
- 170° hinges not recommended
- **Use of PlateMate required for installation**

Part no.

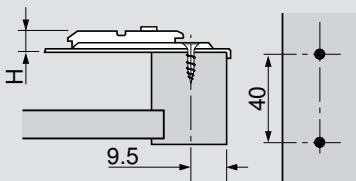
9 plate height (H)	175H5030.21
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## Face frame adapter plates

### Cam adjustable center mount

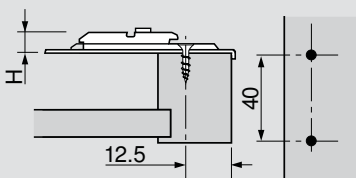
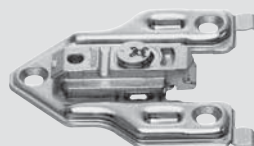


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount **9.5** (3/8")
- Cam height adjustment  $\pm 2$  mm
- 175H6000 not for use with INSERTA hinges
- Use of PlateMate recommended

Part no.

0 plate height (H)	<b>175H6000</b>
3 plate height (H)	<b>175H6030</b>
4.5 plate height (H)	<b>175H6040</b>
6 plate height (H)	<b>175H6060</b>

### Cam adjustable off-center mount

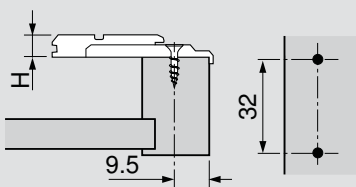
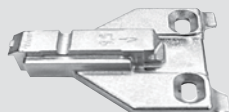


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount **12.5** (1/2")
- Cam height adjustment  $\pm 2$  mm
- Use of PlateMate recommended

Part no.

0 plate height (H)	<b>175H6600</b>
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### Center mount

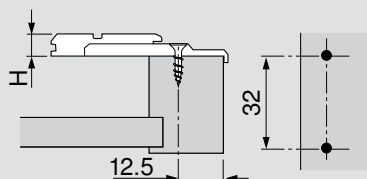
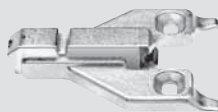


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount **9.5** (3/8")
- Height adjustment  $\pm 2$  mm
- Use of PlateMate recommended

Part no.

3 plate height (H)	<b>175L6030.21</b>
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### Off-center mount

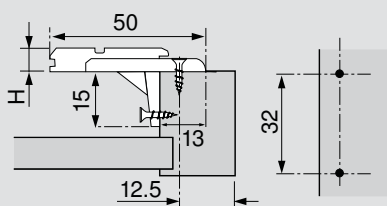


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount **12.5** (1/2")
- Height adjustment  $\pm 2$  mm
- Use of PlateMate recommended

Part no.

0 plate height (H)	<b>175L6600.22</b>
3 plate height (H)	<b>175L6630.22</b>
6 plate height (H)	<b>175L6660.22</b>

### With flange



- Recommended when using the 170° and zero protrusion hinges on face frame cabinets
- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount **12.5** (1/2")
- Height adjustment  $\pm 2$  mm
- Use of PlateMate recommended

Part no.

0 plate height (H)	<b>175L6600.24</b>
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## Soft closing solutions for every application

BLUMOTION for doors soft closing mechanisms can be quickly integrated into cabinets. It will work for almost any application and does not require any change to the hinge assembly.

BLUMOTION redefines the phrase “quality of motion”. The system is quick and easy to install and once installed, creates a quiet closing motion.

The braking action increases with the force of the door allowing it to close softly. This technology enables BLUMOTION to adjust itself automatically to each door size, weight and closing speed.

- Soft closing motion every time due to adaptability
- The integrated overload safety feature protects the BLUMOTION system from damage through abuse
- BLUMOTION lasts the lifetime of the cabinet – ensuring that your customers remain satisfied



### Hinge planning tools

Blum has downloadable Excel® spreadsheets that help determine the BLUMOTION that is right for your application.  
Available at [blum.com/us/planning](http://blum.com/us/planning)





# BLUMOTION for doors overview for Euro hinges

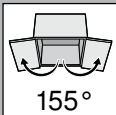
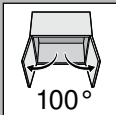
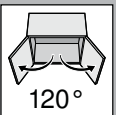
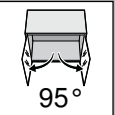
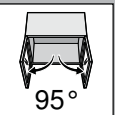
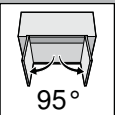
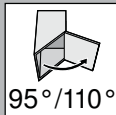
Recommended  
BLUMOTION

**BLUMOTION**  
inside

		 107°	 110°	 110°+	 120°	 120°+	 170°	 95°
		Standard hinge	Standard hinge	Standard hinge	Standard hinge	Standard hinge	Standard hinge	Thick door hinge
Overlay		Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate
		<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A6000</b>	<b>973A0500.01</b>
								
Partial/twin overlay		<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>
								
		<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>
Inset		Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate
		<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A6000</b>	<b>973A0500.01</b>
		Half-cranked hinge, 0 plate	Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate	Half-cranked hinge, 0 plate
		<b>973A0600</b>	<b>973A0600</b>		<b>973A0600</b>		<b>973A6000</b>	<b>973A0600</b>
								
Inset		<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>
		Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate
		<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A0500.01</b>	<b>973A6000</b>	<b>973A0500.01</b>
		Half-cranked hinge, 9 plate	Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate	Half-cranked hinge, 9 plate
		<b>973A0600</b>	<b>973A0600</b>		<b>973A0600</b>		<b>973A6000</b>	<b>973A0600</b>
Inset		Full-cranked hinge, 0 plate	Full-cranked hinge, 0 plate					Full-cranked hinge, 0 plate
		<b>973A0700</b>	<b>973A0700</b>					<b>973A0700</b>
								
Inset		<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>	<b>970A1002</b>

**NOTE:** The overview chart shows all possible BLUMOTION applications. The recommended BLUMOTION part number is marked in orange.



 155°	 100°	 120°	 95°	 95°	 95°	 95°/110°
Zero protrusion hinge	Standard hinge	Aluminum door hinge	Glass door hinge	Mini hinge	Blind corner hinge - overlay and inset	Angled hinges: +30 II, +45 I, +45 II
Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate				
973A7000	973A0500.01	973A0500.01				
971Axxxx	971Axxxx		971Axxxx	971Axxxx		
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate				
973A7000	973A0500.01	973A0500.01				
	Half-cranked hinge, 0 plate					
	973A0600					
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate				
973A7000	973A0500.01	973A0500.01				
	Half-cranked hinge, 9 plate					
	973A0600					
	Full-cranked hinge, 0 plate					
	973A0700					
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002

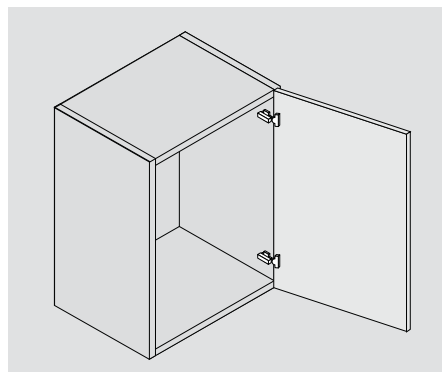


# BLUMOTION 973A for CLIP top and CLIP hinges

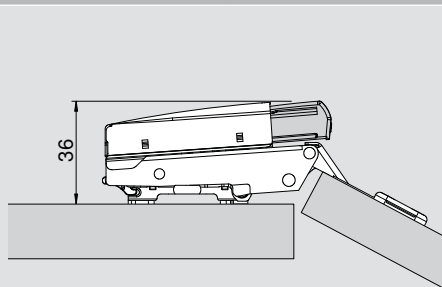


## Features

- Soft-closing feature for CLIP top and CLIP hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Simple attachment to the hinge arm
- Designed for use with Blum Euro hinges only
- Nickel-plated steel and gray nylon



## For straight-arm hinges



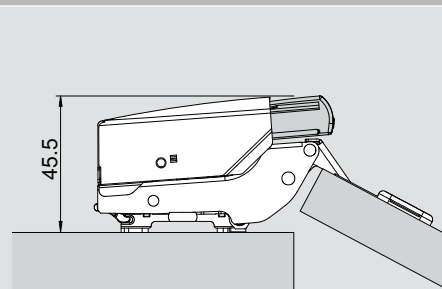
- CLIP top 107°
- CLIP top 110°
- CLIP top 110°+
- CLIP top 120°
- CLIP top 120°+
- CLIP top 95° thick door
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

Part no.

Straight-arm

**973A0500.01**

## For half-cranked arm hinges



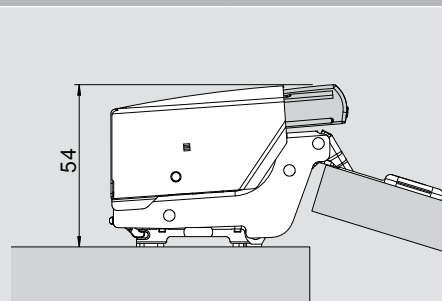
- CLIP top 107°
- CLIP top 110°
- CLIP top 120°
- CLIP top 95° thick door
- CLIP 100°
- CLIP 107°

Part no.

Half-cranked arm

**973A0600**

## For full-cranked arm hinges



- CLIP top 107°
- CLIP top 110°
- CLIP top 95° thick door
- CLIP 100°

Part no.

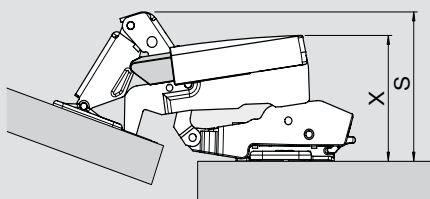
Full-cranked arm

**973A0700**



## Specifications

### For 170° hinges



Hinge	X	S
CLIP top 170° straight-arm	49	65 max.
CLIP top 170° half-cranked	68	75 max.

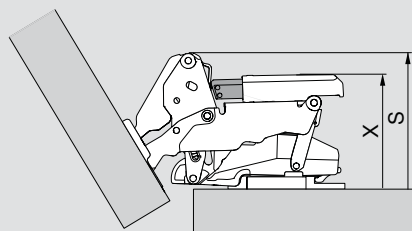
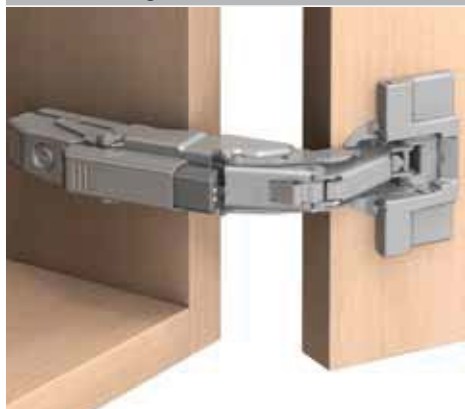
- CLIP top 170° — straight-arm
- CLIP top 170° — half-cranked

Part no.

973A6000

**NOTE:** Additional clearance of 41 mm needed above and below for interior roll-out

### For 155° hinges



Hinge	X	S
CLIP top 155° straight-arm	53	61
CLIP top 155° half-cranked	63	71

- CLIP top 155° — straight-arm
- CLIP top 155° — half-cranked

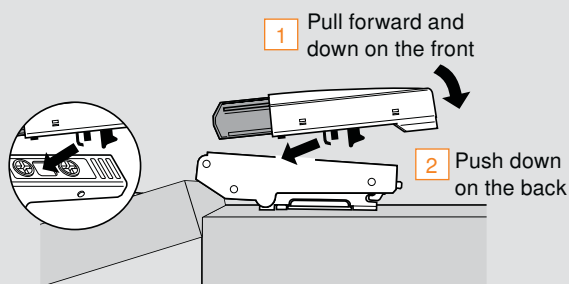
Part no.

973A7000

**NOTE:** Additional clearance of 41 mm needed above and below for interior roll-out

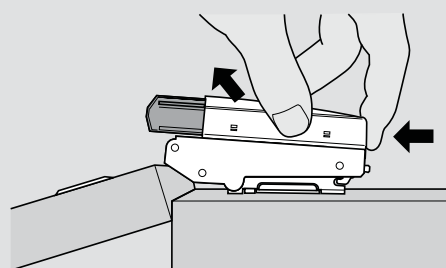
### Attachment

Attach to the square hole in the hinge arm



### Removal

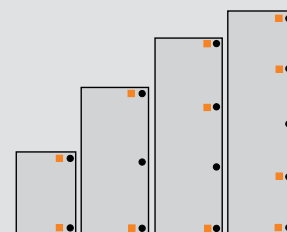
Pull forward and up simultaneously



### BLUMOTION per door

- BLUMOTION 973A is designed for one BLUMOTION per self-closing hinge, however, quantity may vary depending on door size and weight
- Small or light doors may only require one BLUMOTION
- Trial application recommended

- BLUMOTION 973A
- Hinges





# BLUMOTION 971A for Euro hinges

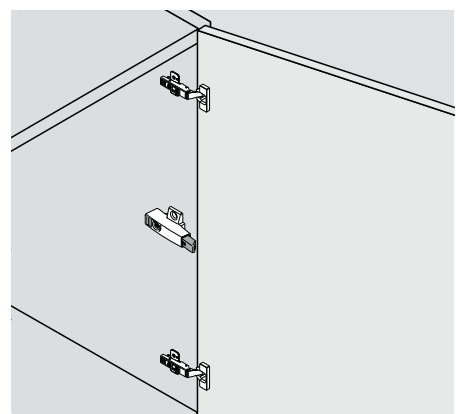
## Product



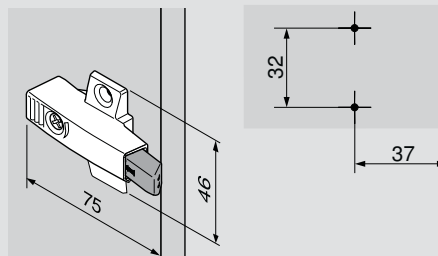
## Description

- Soft-closing feature for CLIP top and CLIP straight-arm hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Adjustable to various door sizes and weights (+3/-7 mm range)
- Installed onto hinge-side panel
- For use with straight-arm hinge and either 0 mm or 3 mm mounting plate only
- Nickel-plated steel and gray nylon

## Application



### Wing plate (screw-on)

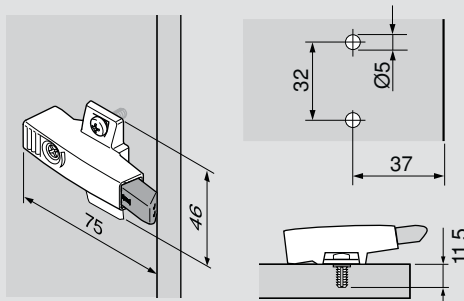


- 37 mm setback, 32 mm apart
- Attach with #6 x 5/8" wood screws

Part no.

0 mm	<b>971A0500</b>
Installation screw	<b>606N or 606P</b>

### Wing plate (EXPANDO)

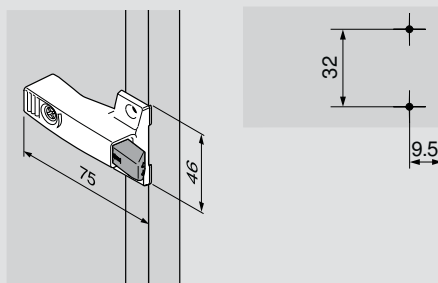


- 37 mm setback, 32 mm apart
- Attached with pre-mounted screws with 5 mm EXPANDO dowels

Part no.

0 mm	<b>971A05E0</b>
------	-----------------

### Face frame adapter plate (screw-on)



- 9.5 mm setback, 32 mm apart
- Attach with #6 x 5/8" wood screws

Part no.



0 mm	<b>971A0700</b>
3 mm	<b>971A2700</b>
Installation screw	<b>606N or 606P</b>

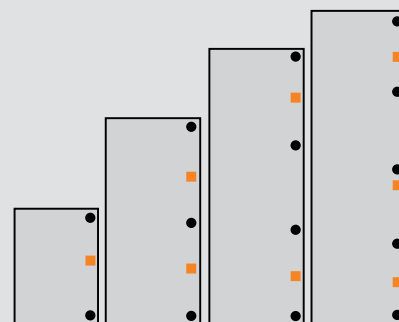


## Specifications

### BLUMOTION per door

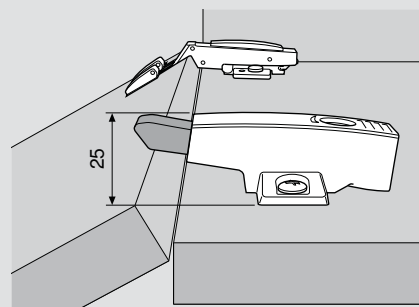
- For optimum BLUMOTION effect, BLUMOTION 971A should be installed onto the hinge side panel centered between the two hinges
- Tall or heavy doors may require an additional BLUMOTION 971A between the hinges
- Trial application recommended

 BLUMOTION 971A  
 Hinges



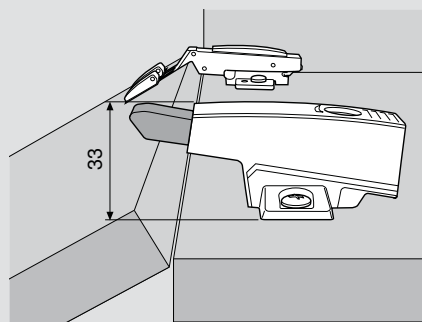
### 0 mm BLUMOTION application

For all hinges with a straight-arm and a 0 mm mounting plate.



### 3 mm BLUMOTION application

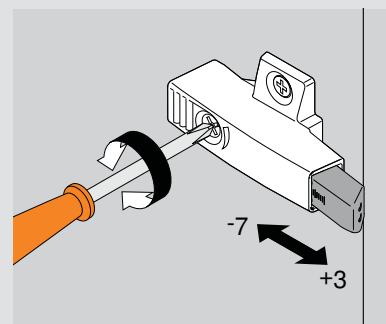
For all hinges with a straight-arm and a 3 mm mounting plate.



**NOTE:** 95° thick door straight-arm hinge requires 3 mm BLUMOTION

### Adjustment

Use a Phillips or POZI screwdriver to adjust the contact point in or out (+3/-7 mm). Adjust out for larger, heavier doors or adjust in for smaller, lighter doors.





# BLUMOTION 970A for Euro hinges

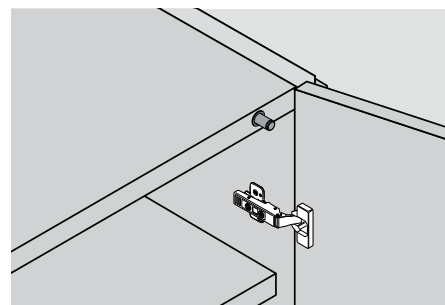
## Product



## Description

- Soft-closing feature for CLIP top and CLIP hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Installed into the top and/or bottom panel or with adapter plates on hinge-side
- Gray nylon

## Application



## BLUMOTION 970A



Part no.

BLUMOTION 970A

970A1002

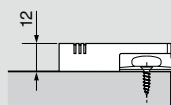
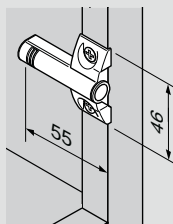
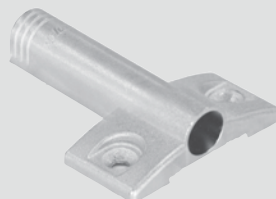
## BLUMOTION per door

- BLUMOTION 970A is designed for two BLUMOTION per door, however, one may be enough depending on door size and weight
- Small or light doors may only require one BLUMOTION
- Trial application recommended

- BLUMOTION 970A
- Hinges



## Face frame adapter (screw-on)

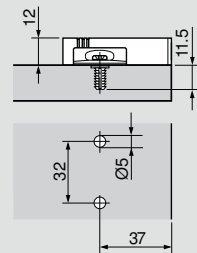
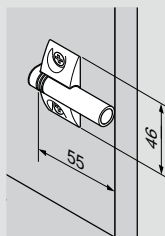
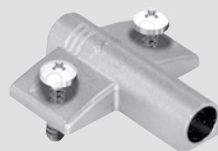


- 9.5 mm setback, 32 mm apart
- Can also be used in panel cabinets
- Attach with #6 x 5/8" wood screws
- Nickel-plated steel

Part no.

Screw-on	970.5701
Installation screw	606N or 606P

## 37/32 mm adapter (EXPANDO)

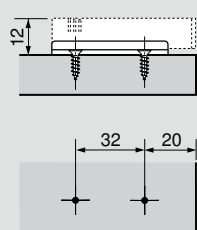
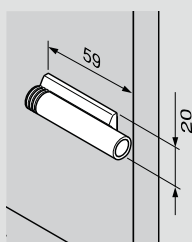


- 37 mm setback, 32 mm apart
- EXPANDO version installs with pre-attached screws
- Nickel-plated steel

Part no.

EXPANDO	970.55E1
---------	----------

## In-line adapter (screw-on)



- 20 mm setback, 32 mm apart
- Two-piece design
- Attach with #6 x 5/8" wood screws
- Nickel-plated steel and gray nylon

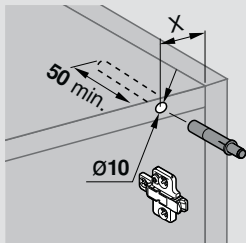
Part no.

Screw-on	970.5201
Installation screw	606N or 606P

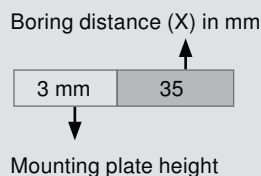


## BLUMOTION 970A

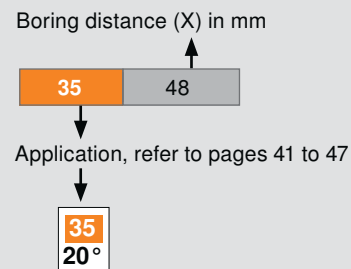
The charts below provide the boring distance based on the application and mounting plate height.



### Standard applications



### For angled applications



### Standard application

		Overlay boring distance		Twin boring distance		Inset boring distance		Inset with straight-arm boring distance
Mounting plate height	0 mm	32	0 mm	41	0 mm	50	18 mm	50
	3 mm	35	3 mm	44	3 mm	53		
	6 mm	38	6 mm	47				
	9 mm	41	9 mm	50				

### Blind corner applications

		Inset blind corner boring distance		Overlay blind corner boring distance
Mounting plate height			0 mm	32
	3 mm	51	3 mm	35
			6 mm	38

### Angled applications (reference angle applications page 41 to 47)

		Max. overlay boring dist.		Partial overlay boring dist.		Corner merge boring dist.		Inset boring dist.		Mitered corner boring dist.
5°	1	33	10	33	19	48	27	48	36	45
10°	2	33	11	33	20	48	28	48	37	45
15°	3	33	12	33	21	48	29	48	38	45
20°	4	33	13	37	22	48	30	48	39	45
25°	5	33	14	37	23	48	31	48	40	45
30°	6	33	15	41	24	48	32	48	41	45
35°	7	33	16	41	25	48	33	48		
40°	8	33	17	41			34	48		
45°	9	33	18	41	26	48	35	48		
-5°	42	37					51	48		
-10°	43	33					52	54		
-15°	44	33					53	54		
-20°	45	37					54	54		
-25°	46	33					55	54		
-30°	47	33								
-35°	48	37								
-40°	49	37								
-45°	50	37					56	54		







# Face frame hinges

## for the life of your cabinet

COMPACT hinges are available for partial and full overlay doors.  
Some advantages of COMPACT hinges are:

- Small profile for face frame cabinets
- BLUMOTION soft close available
- 38/39 series
  - Nickel-plated steel construction
  - 38N and 38C/39C: three-dimensional adjustment
  - 38.: height adjustment
- 33 series
  - Zinc die-cast, nickel-plated steel construction
  - Two-dimensional adjustment
  - Wide variety of small and large overlays
- COMPACT BLUMOTION hinges with integrated soft close is also available



### Hinges planning tools

Blum has downloadable Excel® spreadsheets that help determine the hinge that is right for your application. Available [blum.com/us/planning](http://blum.com/us/planning)

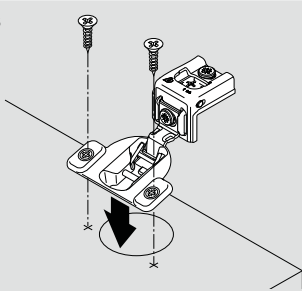




# COMPACT general specifications

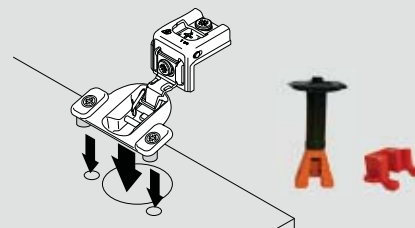
## Screw-on hinge attachment

Use #6 wood screws



## Press-in hinge attachment

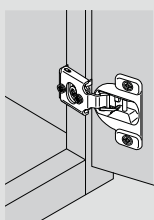
Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.



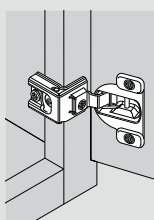
## Mounting plate attachment

### One-piece assembly

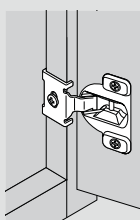
COMPACT 38N  
wrap or edge



COMPACT 38C/39C  
wrap around

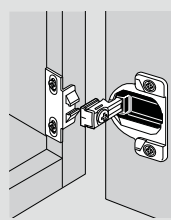


COMPACT 38.  
wrap or edge

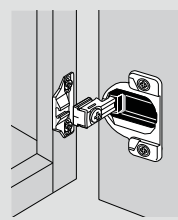


### Two-piece assembly

COMPACT 33  
edge mount

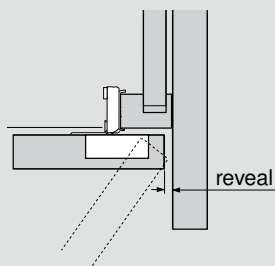


COMPACT 33  
face mount



## Minimum reveal

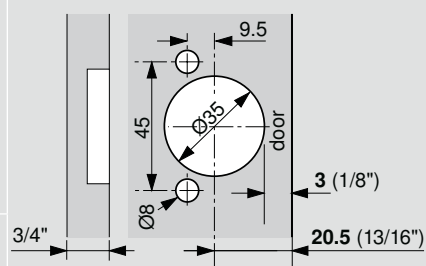
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see minimum reveal table for each hinge).



## Hinge cup centerpoint

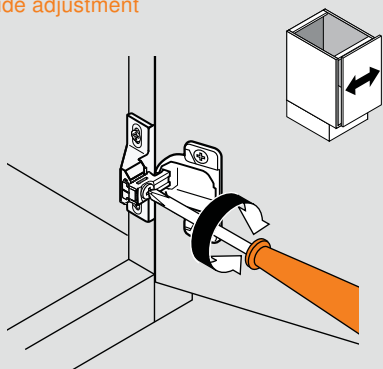
Cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT hinges.

**NOTE:** Maximum door thickness 3/4"



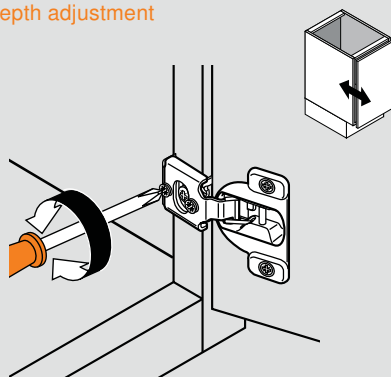
## Three-way independent adjustment

### Side adjustment



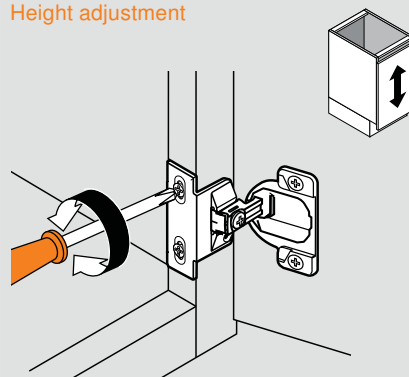
Side adjustment is possible on all COMPACT hinges except 38. series. COMPACT 38N, 38C and 39C have cam side adjustment.

### Depth adjustment



COMPACT 38N, 38C and 39C have cam depth adjustment.

### Height adjustment



All COMPACT hinges are independently height adjustable.

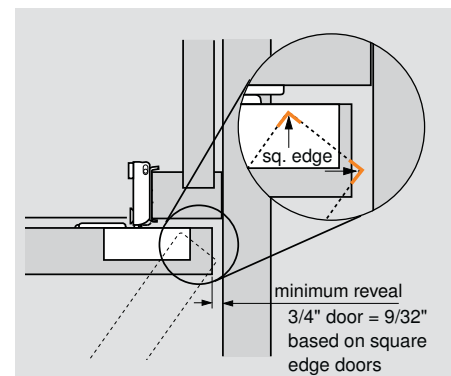




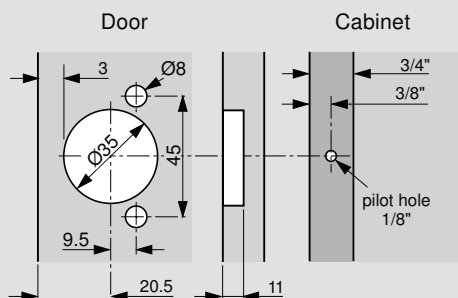
## Features

- 105° opening angle
- One piece assembly
- Wraparound or edge mount
- 7/16" cup depth
- +/- 1/8" height adjustment
- +/- 1/16" side adjustment
- +3/32", -1/32" cam depth adjustment
- Can be used with BLUMOTION 971A9700
- Steel, nickel-plated

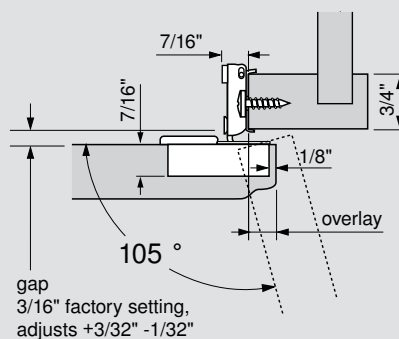
## Minimum reveal



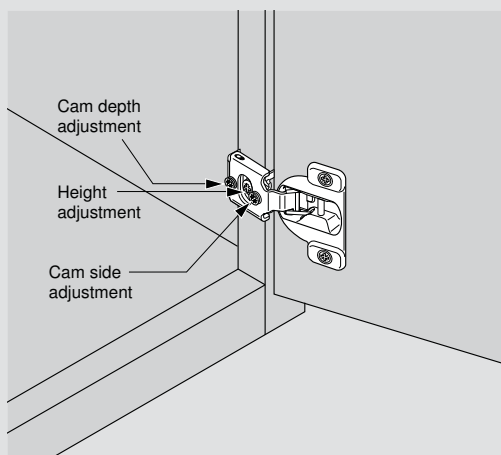
## Boring pattern



## Dimensions



## Adjustment



## Wraparound hinges



Overlay	Screw-on	 Press-in
3/8"	38N355C.06	38N358C.06
1/2"	38N355C.08	38N358C.08
5/8"	38N355C.10	38N358C.10
3/4"	38N355C.12	38N358C.12

## Edge mount hinges



Overlay	Screw-on	 Press-in
1/2"	38N355CE08	38N358CE08

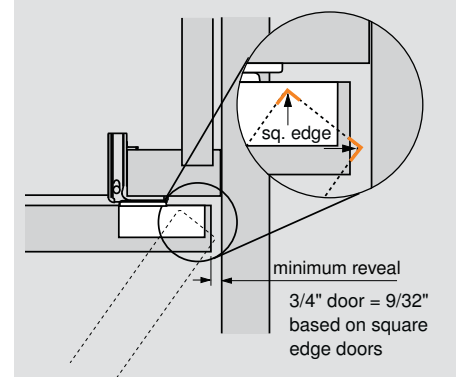
## Installation screw

Truss head installation screw	834TH
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## Calculating door protrusion

Door overlay	Door protrusion
3/8"	1/4"
1/2"	1/8"
5/8"	0
3/4"	0





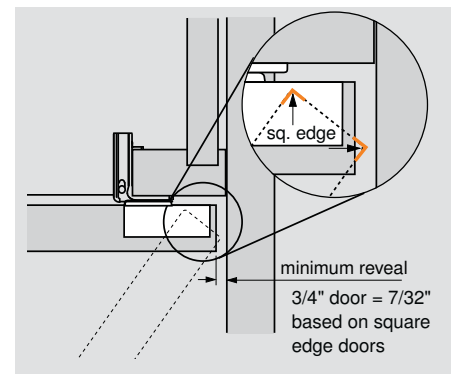




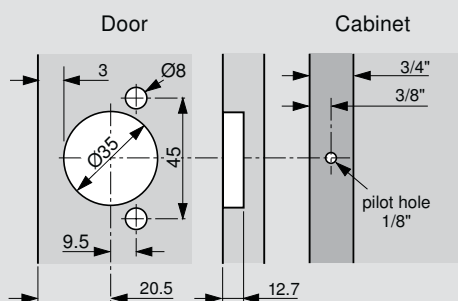
## Features

- 110° opening angle
- One piece assembly
- Wraparound mount
- 1/2" cup depth
- +/- 1/8" height adjustment
- +/- 1/16" side adjustment
- +3/32", -1/32" cam depth adjustment
- Can be used with BLUMOTION 971A9700
- Steel, nickel-plated

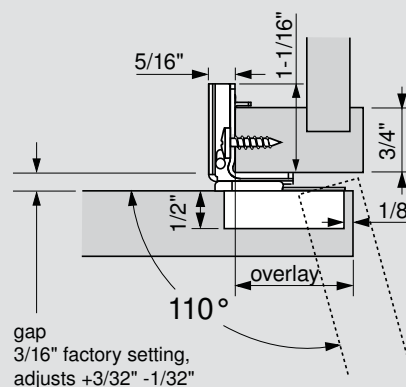
## Minimum reveal



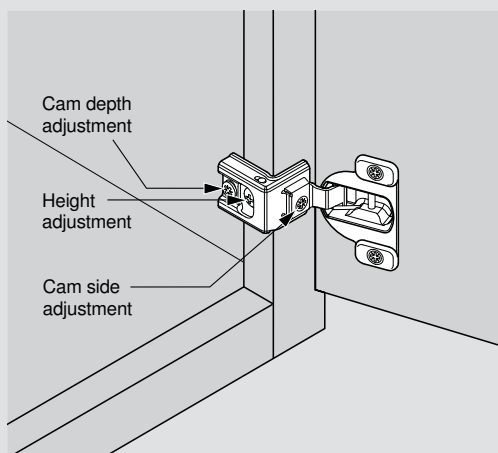
## Boring pattern



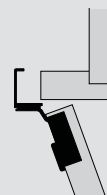
## Dimensions



## Adjustment



## Wraparound hinges



Overlay	Screw-on	47 Press-in
1"	39C355C.16	39C358C.16
1-1/4"	39C355C.20	39C358C.20
1-5/16"	39C355C.21	39C358C.21
1-3/8"	39C355C.22	39C358C.22
1-1/2"	39C355C.24	39C358C.24
1-9/16"		39C358C.25

## Installation screw

Truss head installation screw

834TH

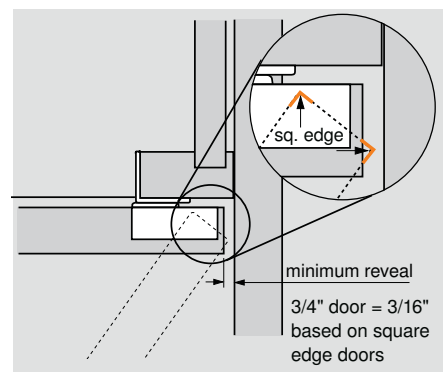




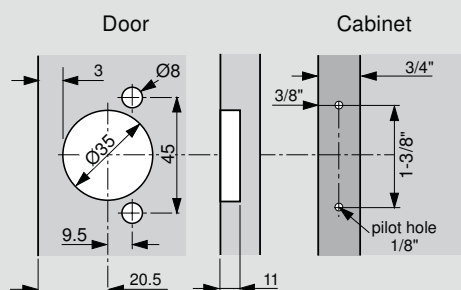
## Features

- 110° opening angle
- Two piece assembly
- Edge or face mount
- 1/2" cup depth
- +/- 9/64" height adjustment
- 1/8" side adjustment only
- Can be used with BLUMOTION 971A9700
- Zinc die-cast hinge and mounting plates

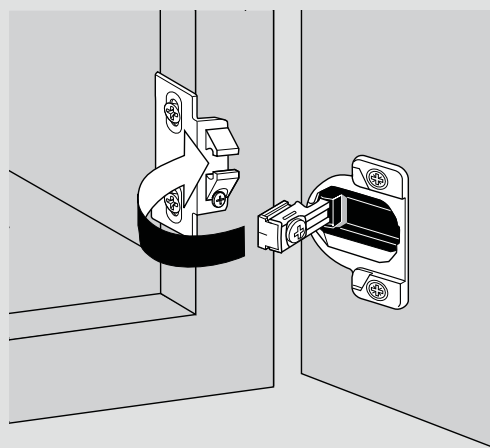
## Minimum reveal



## Boring pattern

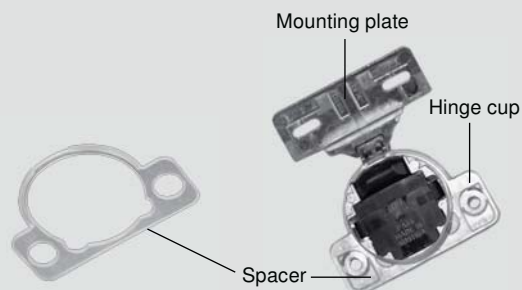


## Mounting



## COMPACT 33 spacer

- For use with profile or thin doors with a cup depth less than 13 mm
- 1.5 mm spacer placed under the hinge cup
- Clear nylon



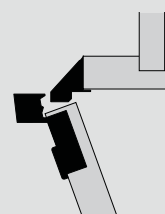
Part no.

COMPACT 33 spacer

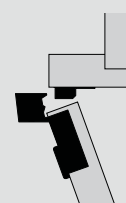
58.0890.1198

## Attachment options

### Edge mount



### Face mount



Overlay	Screw-on	47	Press-in
	33.3600		33.3630

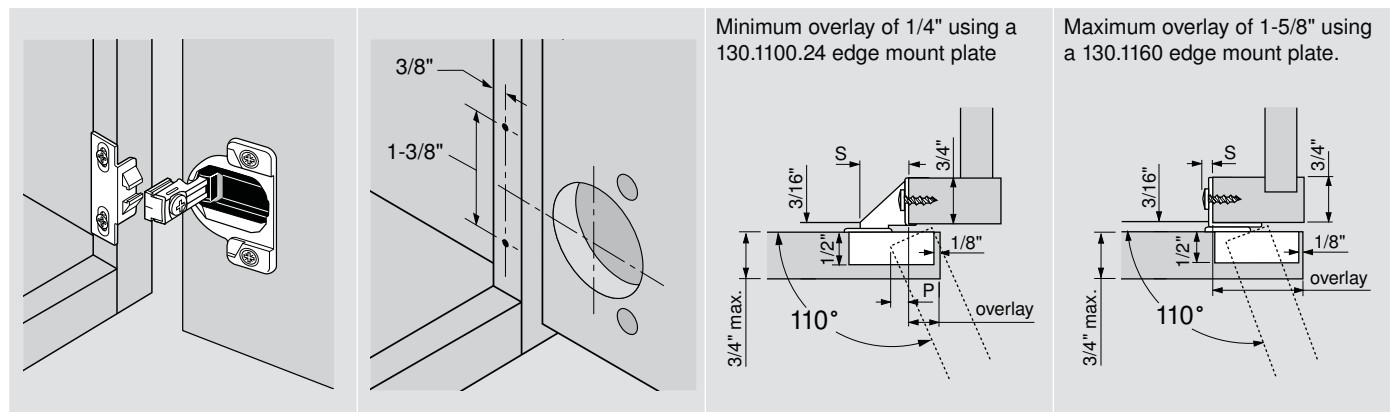
## Installation screw

Wood screw

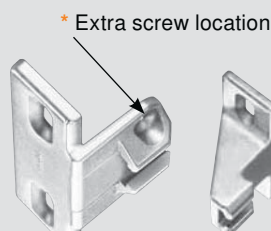
606N or 606P



## Edge mount specifications



## Edge mount mounting plates



\* Extra screw location

- Zinc die-cast, nickel-plated
- Attaches with #6 x 5/8" wood screws (606N or 606P)
- Overlays from 1/4" to 1-5/8"

**NOTE:** An additional screw is required on mounting plates with 1-3/8" to 1-5/8" overlays to insure stability. Install after height adjustments have been made.

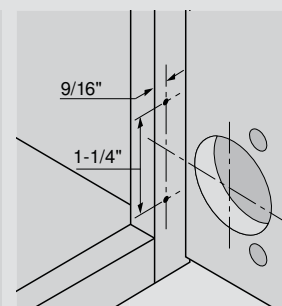
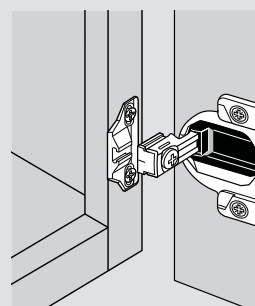
Overlay	Hinge arm protrusion (S)	Door protrusion (P)	Mounting plate
1/4"	1-1/8"	1/2"	130.1100.24
1/2"	7/8"	1/4"	130.1100.23
5/8"	3/4"	1/8"	130.1100.26
3/4"	5/8"	0	130.1100.22
1"	3/8"	0	130.1110.02
1-1/8"	1/4"	0	130.1120.02
1-1/4"	3/16"	0	130.1130.02
1-3/8" *	3/16"	0	130.1140.02
1-1/2" *	3/16"	0	130.1150.02
1-5/8" *	3/16"	0	130.1160

COMPACT

## Face mount mounting plates



- Zinc die-cast, nickel-plated
- Attaches with #6 x 5/8" wood screws (606N or 606P)
- Overlays 1-3/8" or greater



Overlay

Face mount mounting plate

Part no.

133.0240

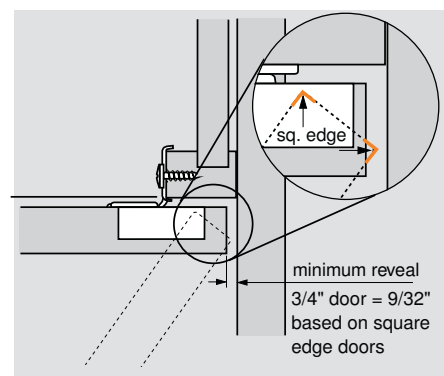




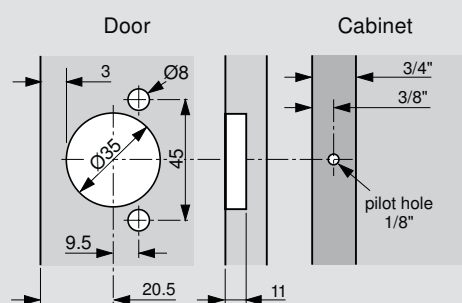
## Features

- 105° opening angle
- One piece assembly
- Self-closing
- Wraparound mount
- 7/16" cup depth
- +/- 1/8" height adjustment
- Can be used with BLUMOTION 971A9700
- Steel, nickel-plated

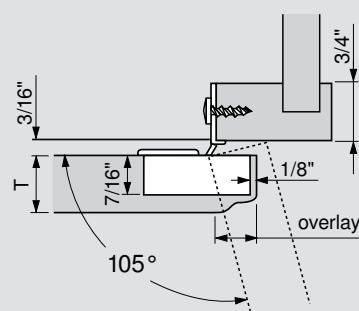
## Minimum reveal



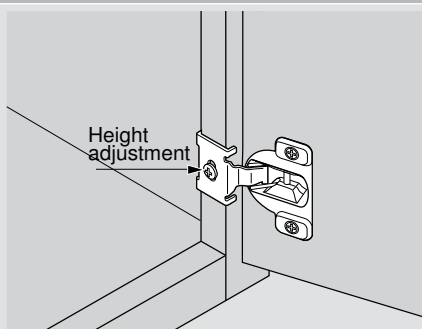
## Boring pattern



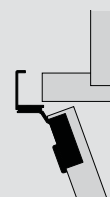
## Dimensions



## Adjustment



## Wraparound



## Overlay

1/2"

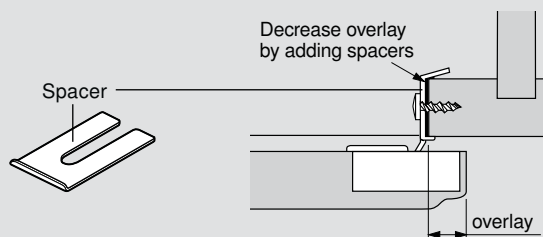


## Press-in

38.3580.08

## Distance spacer for 38. hinges

- Decreases door overlay in 1/32" increments
- Can be stacked to achieve desired overlay reduction
- Zinc-coated steel



38. distance spacer

36.3515

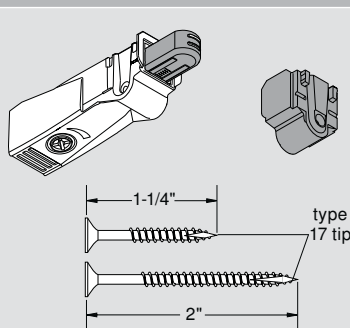
## Installation screw

Truss head installation screw

834TH



## BLUMOTION 971A poly-bag set



Can be used for all COMPACT overlays

### Set includes:

- BLUMOTION mechanism (971A9700)
- Spacer (971A9709)
- #8 x 1-1/4" type 17 wood screw
- #8 x 2" type 17 wood screw

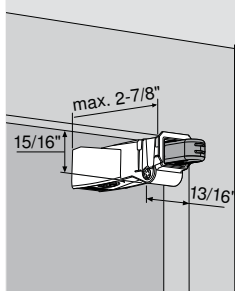
Part no.

Poly-bag set

**971A9700.22**

## Full overlay

Full overlay — 1" or greater overlay



Part no.

BLUMOTION

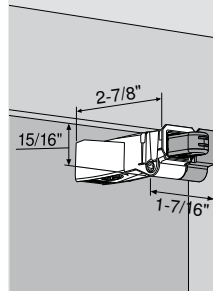
**971A9700**

Installation screw (1-1/4")

**8114Z**

## Partial overlay

Partial overlay — less than 1" overlay



Part no.

BLUMOTION

**971A9700**

Spacer

**971A9709**

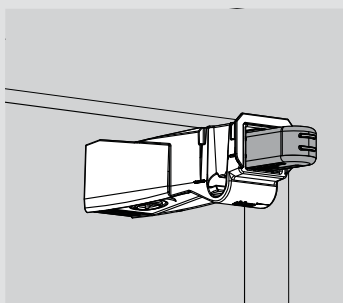
Installation screw (2")

**8200Z**

## Specifications

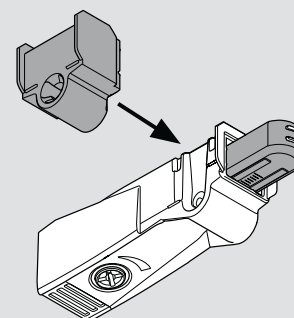
### Mounting

BLUMOTION for doors mounts anywhere on the hinge-side stile of the cabinet using a 1-1/4" screw or 2" screw when using spacer.



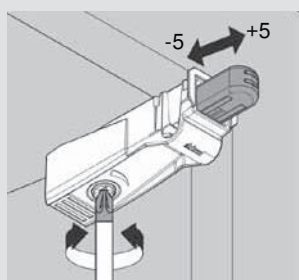
### Attachment of partial overlay spacer

The partial overlay spacer snaps onto the side of the BLUMOTION for easier mounting.



## Adjustment

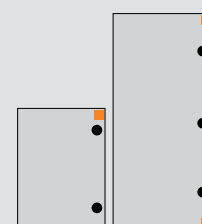
Use a Phillips or POZI screwdriver to adjust the contact point in or out (+5/-5 mm). Adjust out for larger, heavier doors or in for smaller, lighter doors.



## BLUMOTION per door

- For optimum BLUMOTION effect, one BLUMOTION 971A should be installed for most applications
- Tall or heavy doors may require an additional BLUMOTION 971A
- Trial application recommended



- BLUMOTION 971A
- Hinges





# Hinge accessories

## COMPACT cover caps

COMPACT 38N cover cap			COMPACT 38C/39C cover cap			
	<ul style="list-style-type: none"><li>For use with COMPACT 38N hinges</li><li>Clip on attachment/removal</li><li>Available blank or with printed custom logo (minimums apply)</li><li>Steel, nickel-plated</li></ul>			<ul style="list-style-type: none"><li>For use with COMPACT 38C/39C hinges only</li><li>Clip on attachment/removal</li><li>Available blank/embossed blum logo or with printed custom logo (minimums apply)</li><li>Steel, nickel-plated</li></ul>		
	Part no.			Part no.		
	38N cover cap	70.7503		Blank	38C3508	
			Embossed Blum logo	38C3508.BP		

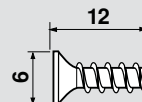
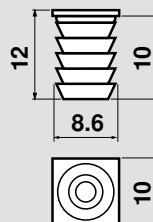
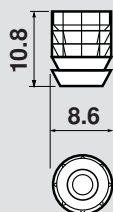
## Dowel cross-reference chart

Blum press-in and EXPANDO dowels simplify installation  
Use the charts below to find the proper hinge-to-dowel combination

### Ø8 mm dowels

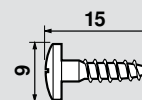
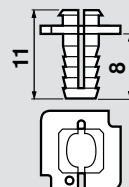
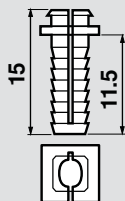


**NOTE:** All dowels for Ø8 mm holes require a #6 x 1/2" dowel screw (608.1200)



Dowels for Ø8 mm hole		70.0532	34.3582.01	608.1200
Type	Series	Without flange	With flange	Installation screw
CLIP top and CLIP	100°/107°	✓		✓
	120°/120°+	✓		✓
	170°	✓		✓
	Thick door	✓		✓
	Zero protrusion	✓		✓
	Diagonal 45°	✓		✓
	Blind corner	✓		✓
	Bi-fold	✓		✓
COMPACT	33	✓		✓
	38C/39C	✓	✓	✓
	38N	✓	✓	✓
	38.	✓	✓	✓

### Ø5 mm dowels



Type	Series/application	Dowels		Installation screws
EXPANDO	174H7100E /std. application	174H7100E8		618.1500
	174H710ZE /twin application		174H710E8Z	618.1500



## Screws

## Deep thread wood screws

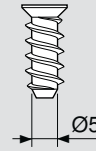


Part no.

#6 x 1/2", #2 Phillips	6062N
#6 x 5/8", #2 Phillips	606N
#6 x 5/8", #2 POZI	606P
#6 x 3/4", #2 Phillips	6064N
#7 x 5/8", #2 Phillips	707N
#7 x 3/4", #2 Phillips	7074N

## Deep thread system screws

Pilot bore Ø5 mm (3/16") hole

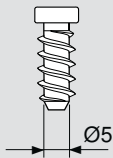


Part no.

#7 x 10 mm, #2 POZI	661.1000.HG
#7 x 11.5 mm, #2 POZI	661.1150.HG
#7 x 13 mm, #2 POZI	661.1300.HG
#7 x 14.5 mm, #2 POZI	661.1450.HG
#7 x 20 mm, #2 POZI	661.2000.HG
#7 x 25 mm, #2 POZI	661.2500.HG

## Pan head system screw

- Pilot bore Ø5 mm (3/16") hole
- Replacement screw for mounting plates with pre-mounted system screws



Part no.

#7 x 14.5 mm, #2 POZI	668.1450.EH
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## Type 17 truss head screw

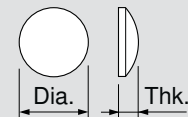


Part no.

#8 x 3/4", #2 Phillips	834TH
------------------------	-------

## Bumpers

Bumpers are clear in color with an adhesive backing (diameter x thickness).



Part no.

7.5 x 2 mm bumper	FX4041
12 x 3.5 mm bumper	SJ5312

## Twin application screws

Ø5 (3/16") hole



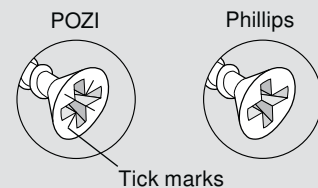
Part no.

14 (9/16") screw	612.2010
16 (5/8") sleeve	612.2020
24 (15/16") sleeve	612.2420

## POZI DRIVER and bits



A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.



Part no.

#2 POZI DRIVER	POZI DRIVER
1/4" Magnetic bit holder	BIT HOLDER
#2 x 1" POZI bit insert	POZI BIT #2x1
#2 x 2" POZI bit insert	POZI BIT #2x2



# Assembly aids

## Templates

### Knock-in tool



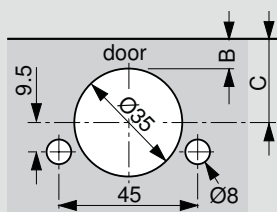
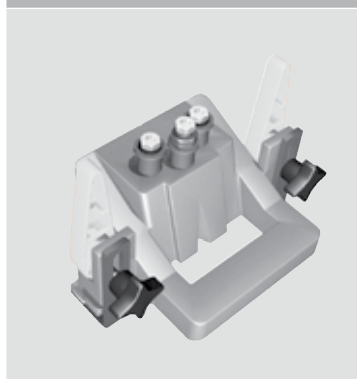
Can be used to insert all Blum press-in hinges

Part no.

Knock-in tool

**ZME.0710**

### ECODRILL



- Simple device for boring Blum hinge pattern
- Driven by electric/cordless drill (18v or higher)
- Boring distance adjusts from 2 mm to 8 mm
- Clamps to various door thicknesses up to 40 mm
- Includes drill bits (pre-installed) and two Torx bits

ECODRILL

**M31.1000**

#### Accessories

Replacement Ø35 mm bit

**M31.ZB35.02**

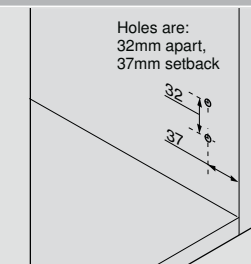
Replacement Ø8 mm bit

**M31.ZB08.02**

Tool set

**MZW.1300**

### ECOJIG



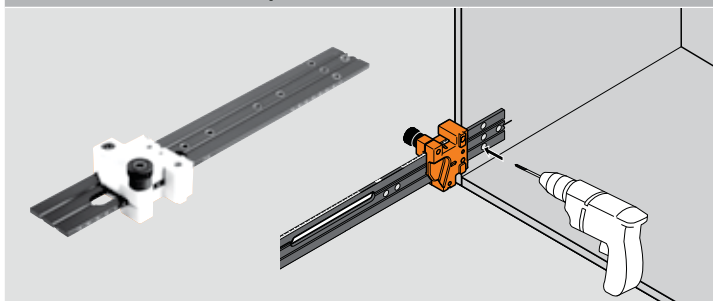
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

**65.5070**

### Universal individual template



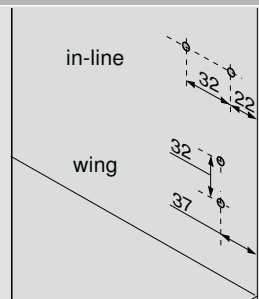
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

Part no.

Universal individual template

**65.1051.01**

### Mounting plate template



- Use with CLIP mounting plates on overlay applications on panel cabinets
- For wing mounting plates (37 mm setback) and in-line mounting plates (22 mm setback)
- Simple location of mounting plate screw positions
- Pilot bore Ø2.5 mm holes for wood screws

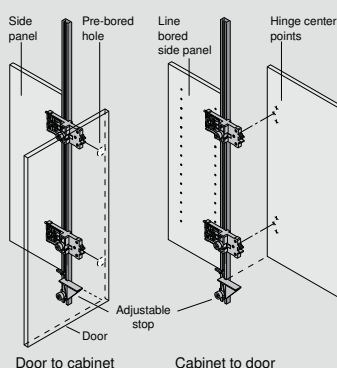
Part no.

Mounting plate template

**65.5310**



## QUICKFIX



- Locates and matches positions of hinges and plates on cabinets and doors
- Transfer positions from door-to-cabinet and from cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line mounting plates

Part no.

QUICKFIX 65.7500.02

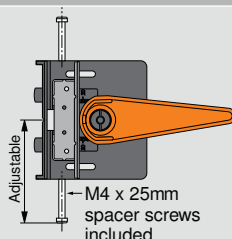
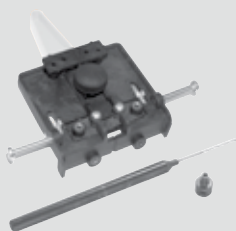
## Accessories

Additional CLIP template 65.7510.02

2.2 meter rail 65.7590

Ø5 mm drill bit DB-5mm

## PLATEMATE

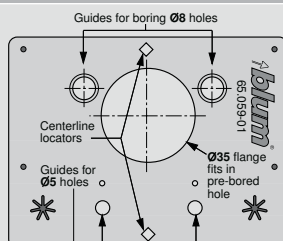
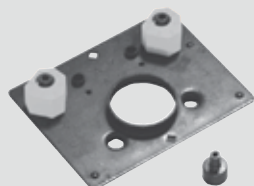


- Boring template for all Blum face frame adapter plates
- Clamps to the frame with cam lever
- Adjustment knob accommodates frame thickness of 5/8" to 1"
- Spacer screws permit quick use without measuring
- Includes 2.5 mm pilot bit and drill bit extension

Part no.

PLATEMATE 65.5030.01

## INSERTA boring template

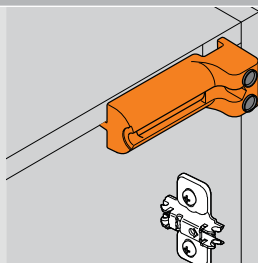


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

INSERTA boring template 65.0590

## BLUMOTION for doors 970A boring template

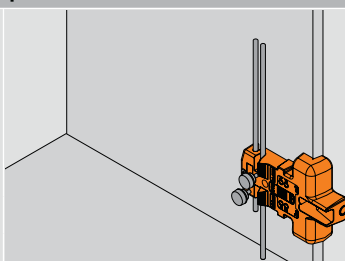
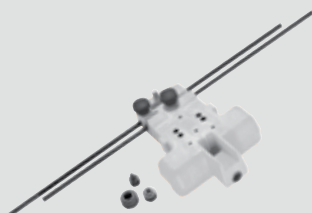


- For pre-boring BLUMOTION 970A
- Ø10 mm drill bushing for edge boring
- Bores left and right side of cabinet
- Can also be used with TIP-ON for doors
- Includes Ø10 mm stop collar

Part no.

BLUMOTION for doors 970A boring template 65.5010

## BLUMOTION for doors boring template



- For pre-boring BLUMOTION adapters
- Ø10 mm drill bushing for panel edge boring
- Bores left and right side of cabinet
- Vertical guides for setting height
- Can be used to pre-bore for wing and in-line mounting plates
- Includes Ø10 mm, Ø5 mm and Ø2.5 mm stop collars

Part no.

BLUMOTION for doors boring template 65.5000



# Assembly aids

## Machines

### MINIPRESS P — Deluxe boring and insertion machine



- Front adjustable boring distance with digital counter
- Pneumatic hold-down clamps
- Boring depth adjustment
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Optional laser center line set
- Accepts new 8 or 9 spindle heads

Part no.

Single phase — 220V power

**M53.1053\*US**

Three-phase — 220V power

**M53.1004\*US**

### MINIPRESS M — 110V manual boring and insertion machine



- V110 power with molding plug (portable)
- Does not require pressurized air
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Accepts new 8 or 9 spindle heads

Part no.

Single phase — 110V power

**M52.1056\*US**

### MINIDRILL P — Standard boring machine



- Front adjustable boring distance
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Optional laser center line, digital counter and hold down clamps sets
- Accepts new 8 or 9 spindle heads

Part no.

Single phase — 220V power

**M53.1053\*50**



## Machine accessories

## 9 spindle head



- 9 spindle head for use with MINIPRESS/MINIDRILL
- Bores nine holes spaced 32 mm apart, parallel to the fence
- New feature — quick-disconnect chucks
- Once aligned, does not require additional adjustment
- Bores cabinet side panel for 32 mm system boring for Blum mounting plates and runners
- Requires retrofit set for use with machines produced in 2009 or prior

## Includes:

- Ø3 mm allen wrench
- Distance spacer
- Drive pin
- Air hose

Part no.

9 spindle head	<b>MZK.190S</b>
Chuck cover cap	<b>M30.1329</b>

## 8 spindle head



- 8 spindle head for use with MINIPRESS/MINIDRILL
- Bores eight holes spaced 32 mm apart, perpendicular to the fence
- New feature — quick-disconnect chucks
- Once aligned, does not require additional adjustment
- Bores all METABOX, TANDEMBOX and TANDEMBOX intivo front fixing brackets and galleries
- Bores cabinet side panels for all Blum runner systems
- Requires retrofit set for use with machines produced in 2009 or prior

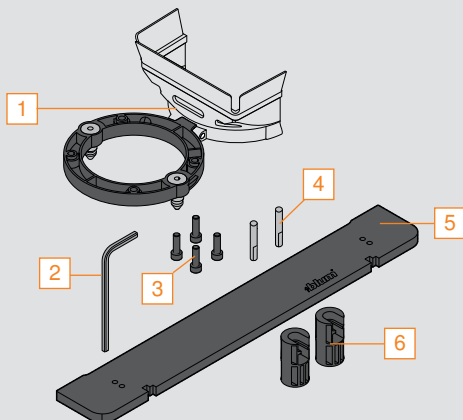
## Includes:

- Ø3 mm allen wrench
- Distance spacer
- Drive pin
- Air hose

Part no.

8 spindle head	<b>MZK.880S</b>
Chuck cover cap	<b>M30.1329</b>

## Spindle head retrofit set



- Required for attachment of 9 and 8 spindle heads to MINIPRESS/MINIDRILL produced in 2009 and prior
- Previous boring heads MZK.1000.US and MZK.8000.US cannot be used with the retrofit set

## Set includes:

- 1** Adapter ring and shield
- 2** Ø5 mm allen wrench
- 3** Mounting bolts (qty 4)
- 4** Alignment pins (qty 2)
- 5** Alignment template
- 6** 13 mm fixed depth stop (qty 2)

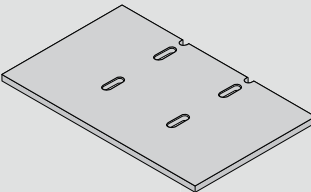
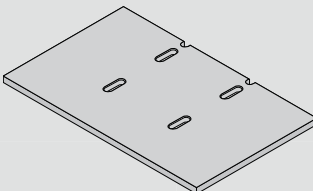
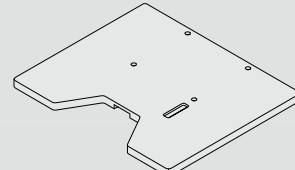
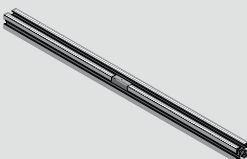


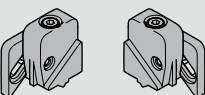
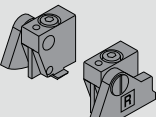
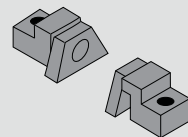



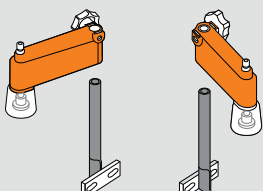
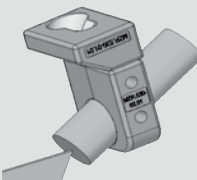
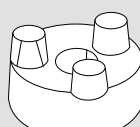
Part no.

Spindle head retrofit set	<b>M30.1313.UM</b>
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# Machine accessories

## Machine accessories

<b>Work table for M51 machine</b>  <div>Part no.</div> <div>Work table <b>MZA.1000</b></div>	<b>Work table for M52 machine</b>  <div>Part no.</div> <div>Work table <b>MZA.5200</b></div>	<b>Work table for M53 machine</b>  <div>Part no.</div> <div>Work table <b>MZA.5300</b></div>
<b>Center ruler</b>  <div>Part no.</div> <div>Center ruler, 600 (2') <b>M30.0212</b></div>	<b>Extension ruler</b>  <div>Part no.</div> <div>Extension ruler <b>MZL.1250.US</b></div>	<b>Extension ruler support</b>  <div>Part no.</div> <div>Extension ruler support <b>MZV.2100</b></div>
<b>Ruler stop</b> Left or right ruler stop  <div>Part no.</div> <div>Ruler stop <b>MZS.3000</b></div>	<b>Small ruler stop</b> Left or right ruler stops  <div>Part no.</div> <div>Small ruler stop <b>MZS.2000</b></div>	<b>Large ruler stop</b> Symmetrical ruler stops  <div>Part no.</div> <div>Large ruler stop <b>MZS.1000</b></div>
<b>Fixed depth stop</b> 13 (1/2") fixed depth stop. For use with M51N machines.  <div>Part no.</div> <div>Fixed depth stop <b>M30.1304.01</b></div>	<b>Fixed depth stop</b> 13 (1/2") fixed depth stop. For use with M53 machines.  <div>Part no.</div> <div>Fixed depth stop <b>M30.1304.02</b></div>	<b>Digital counter set</b>  <div>Part no.</div> <div>Digital counter set <b>MZE.2110</b></div>
<b>Hold down clamp set</b>  <div>Part no.</div> <div>Hold down clamp set <b>M53.0720.US</b></div>	<b>Laser center point set</b>  <div>Part no.</div> <div>Laser center point set <b>MZR.5300.US</b></div>	<b>Breakaway clutch</b> For use with MINIPRESS and MINIDRILL  <div>Part no.</div> <div>Breakaway clutch <b>MZK.2009</b></div>



### Euro insertion ram

Can be used for inserting most Blum Euro press-in hinges. Not recommended for use with 170° and 155° wide angled hinges.



Part no.

Euro insertion ram



**MZM.0040**

### COMPACT insertion ram

Can be used for inserting all Blum COMPACT press-in hinges.



Part no.

COMPACT insertion ram



**MZM.0047**

### Machine drill bits



Ø5 mm



Ø8 mm



Ø10 mm



Ø35 mm

Part no.

Ø5 mm drill bit (right handed)	<b>M01.ZB05.D2 R</b>
Ø5 mm drill bit (left handed)	<b>M01.ZB05.D3 L</b>
Ø8 mm drill bit (left handed)	<b>M01.ZB08.03 L</b>
Ø10 mm drill bit (right handed)	<b>M01.ZB10.02 R</b>
Ø10 mm drill bit (left handed)	<b>M01.ZB10.03 L</b>
Ø20 mm drill bit (right handed)	<b>M01.ZB20.02 R</b>
Ø35 With center point	<b>M01.ZB35.02 R</b>

### Twist drill bits — high speed steel



VPB-5



Twist drill bit



\*Chuck for DB-2mm

Part no.

VPB-5 centering bit	<b>VPB-5</b>
Ø2 mm left	<b>DB-2mm</b>
Ø2.5 mm right	<b>DB-2.5mm</b>
Ø5 mm right	<b>DB-5mm</b>
Ø8 mm right	<b>DB-8mm</b>
Ø10 mm right	<b>DB-10mm</b>
Ø10 mm chuck for DB-2mm	<b>DB-10 x 2mm</b>

\*Used to pilot bore for screw-on hinges with MINIPRESS or MINIDRILL



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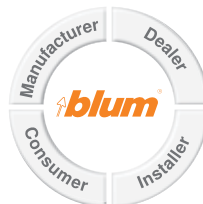
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