

Concealed hinges

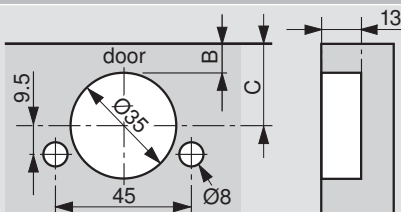


# Concealed hinges

Function and design for perfecting motion

# Quick reference

## Hinge cup centerpoint

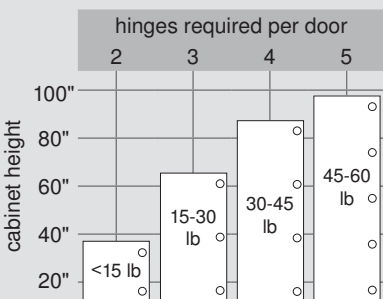


C = cup centerpoint

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

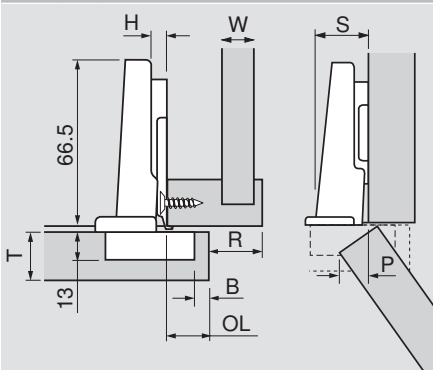
## Hinges per door



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
OL	=	Door overlay
P	=	Door protrusion
R	=	Reveal
S	=	Side arm protrusion
T	=	Door thickness
W	=	Side panel width
FD	=	Fixed 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

## 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  $X + B \text{ minus } H = OL$  (Fixed distance + boring distance minus plate height = overlay)

# Elegant design and superior function

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



## Contents

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CLIP top and CLIP hinge series



Hinges for special applications

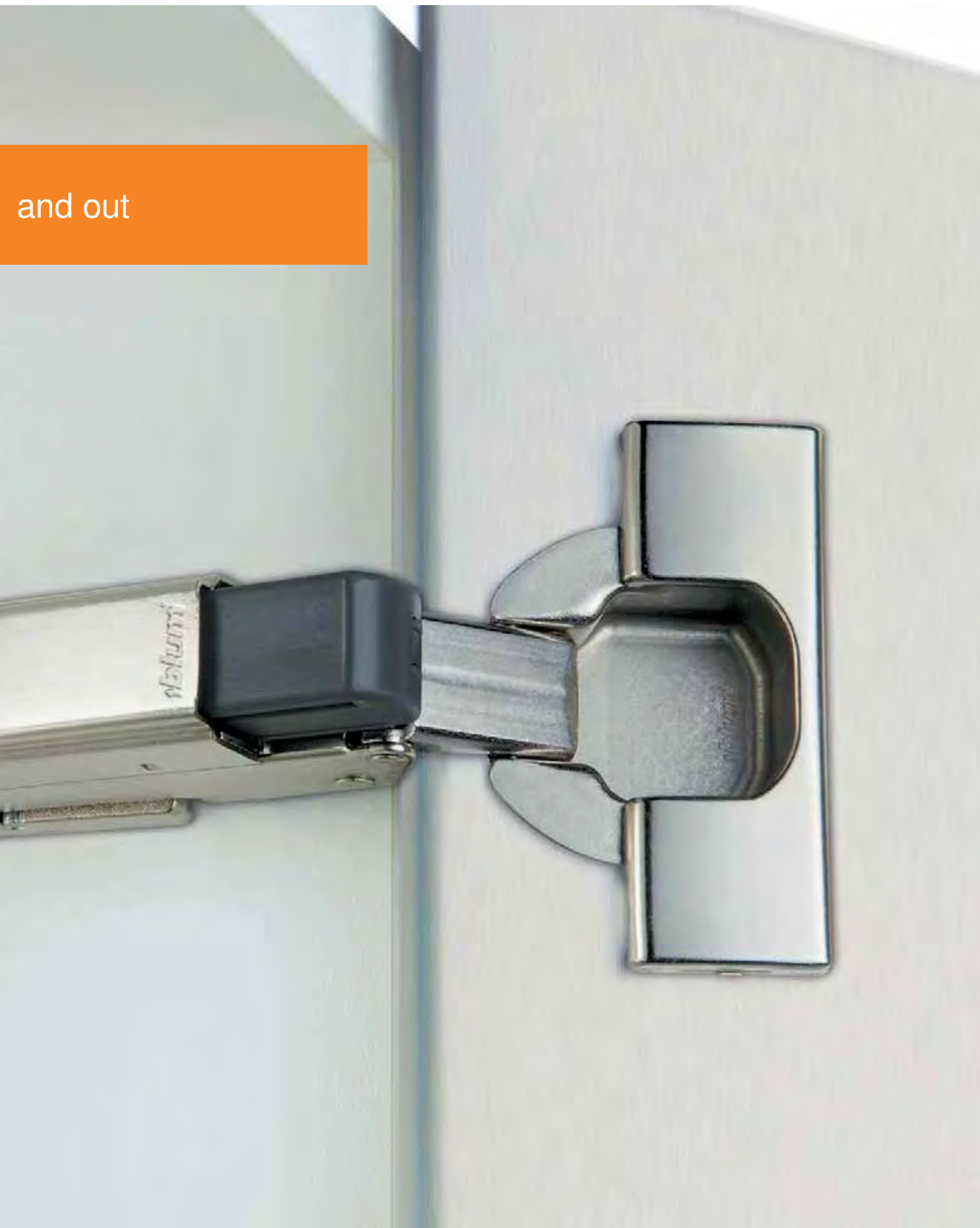


COMPACT hinges

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 a discreet 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 tool-free attachment and removal of doors.





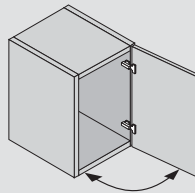
All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

## Cycle test



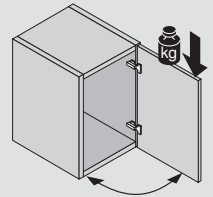
### Without load

- 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

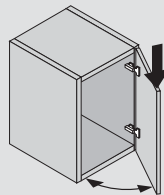


## Load test



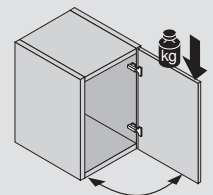
### Static load

- 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

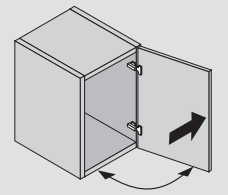


## Over push test



### 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
- Available with INSERTA tool-free attachment and removal
- Mounting plates for face frame and panel cabinets
- Three-dimensional adjustments for precise door alignment
- Complete angled hinge program
- Special hinges available for thick, aluminum and glass doors
- Nickel-plated steel construction
- TIP-ON for doors is also available
- Add-on BLUMOTION soft close available
- 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.

Planning tools are easily accessible on our website at [blum.com/planning](http://blum.com/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

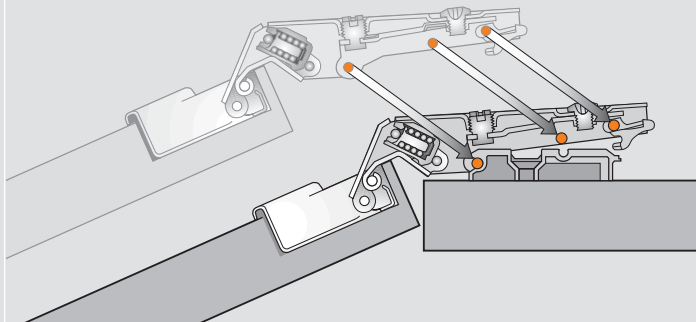


### Time proven CLIP technology

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

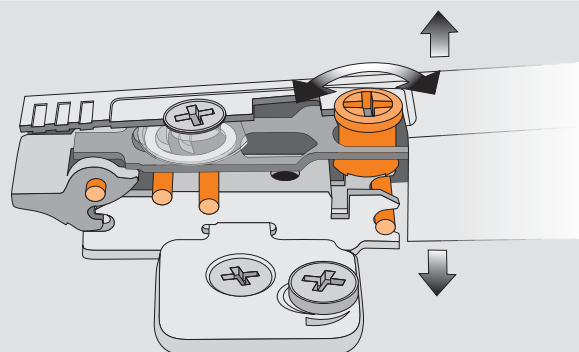
### Blum three-point contact

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



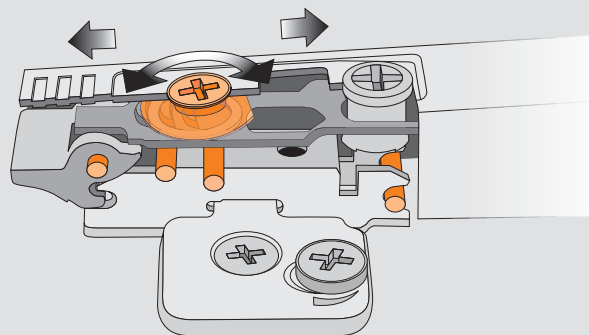
### Side adjustment

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 and 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

# Using this section



Blum's concealed hinges 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**

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 26 (1")
- 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	
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	16	19	22	24	26	
						T = door thickness

For thickness greater than 26 trial app. recommended

**Overlay**

**Partial/twin overlay**

**Inset**

**NOTE:** Application requires a half-cranked hinge and mounting plate 17SH5030.21

**Panel**

**Panel**

**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	
B = boring distance = 11			

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	

H	Reveal	W	P	S
0	4 3 2 1	-	30	39.5
9	4.5 3.5 2.5 1.5	0.5	30.5	40
B = boring distance 0 = -7 9 = 1.5				

**Abbreviations**

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

Straight-arm	Self close	Free swing	Half-cranked	Self close	Free swing	Full-cranked	Self close	Free swing
Screw-on	71T3550	70T3550.TL	Screw-on	71T3650	70T3650.TL	Screw-on	71T3750	70T3750.TL
Press-in	71T3580	70T3580.TL	Press-in	71T3680	71T3680	Press-in	71T3780	71T3780
INSERTA	71T3590	70T3590.TL	INSERTA	71T3690	70T3690.TL	INSERTA	71T3790	
EXPANDO	71T358E							

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	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
B = boring distance = 11			

**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.

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	16	18	19	20	22	
						T = door thickness

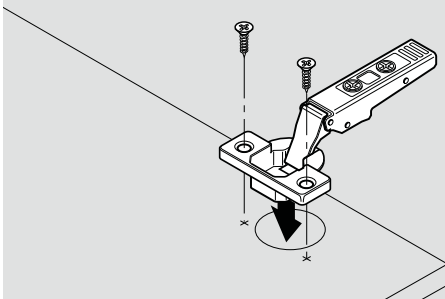


# General specifications

## Hinge-to-door attachment

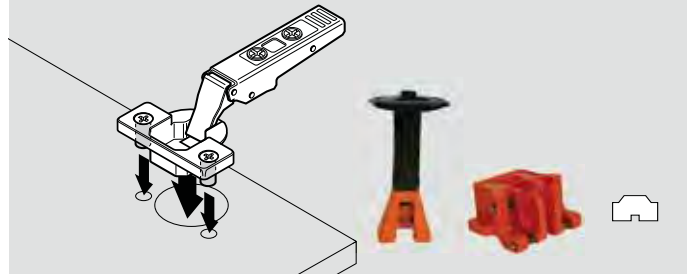
### Screw-on

Use #6 wood screws



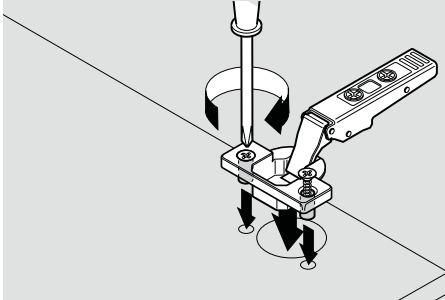
### Press-in

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



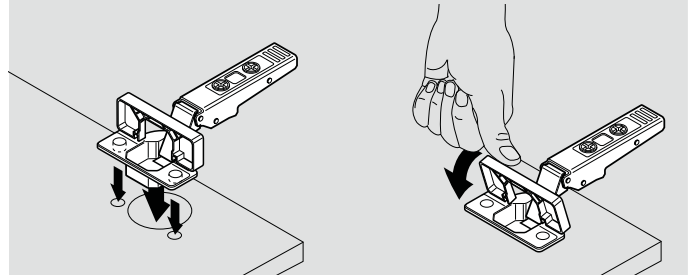
### EXPANDO

Pre-attached Ø8 mm expanding dowels

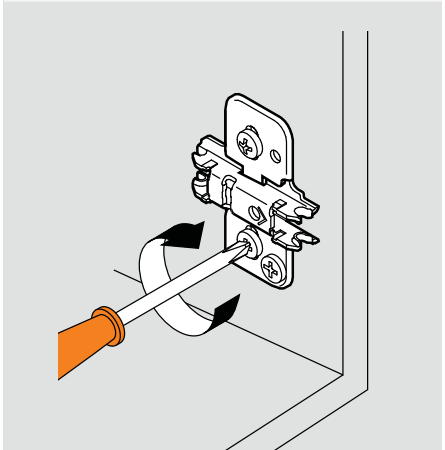


### INSERTA

Tool-free attachment (cup expands into Ø35 mm hole)  
CLIP top 110° hinges (lever expands into Ø8 mm holes)

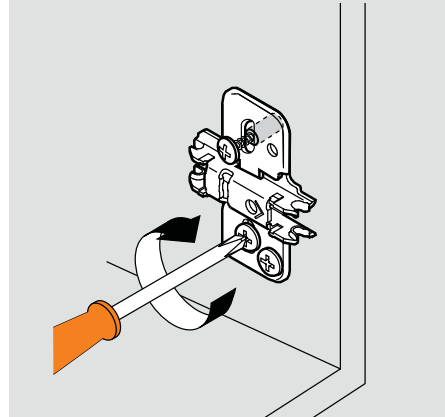


### Screw-on



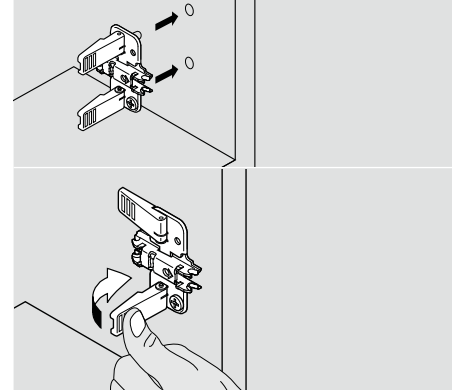
### EXPANDO

Pre-attached expanding Ø5 mm dowels



### INSERTA

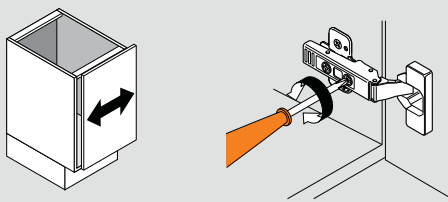
Tool-free attachment with INSERTA expanding Ø5 mm dowels



## Three-dimensional adjustment

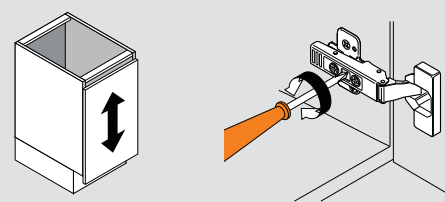
### Side adjustment

Rotate front screw to increase or decrease door overlay  $\pm 2$  mm.



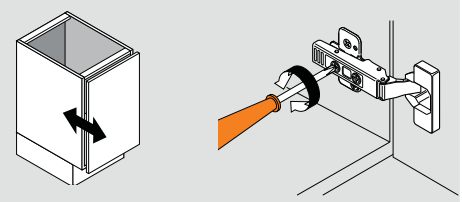
### Height adjustment

Rotate cam screw on mounting plate to adjust door position ( $\pm 2$  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.



# CLIP top 107° hinges



## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

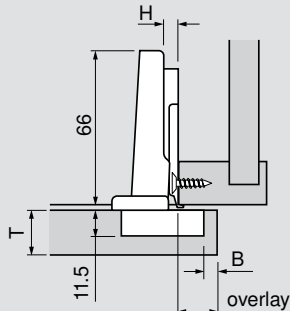
Minimum reveal table					
3	0.6	1.0	1.3	1.7	2.5
4	0.6	1.0	1.3	1.6	2.4
5	0.6	1.0	1.2	1.5	2.2
6	0.6	1.0	1.2	1.4	2.0
B = boring distance	16	18	19	20	22
	T = door thickness				

For thickness greater than 22 trial app. recommended

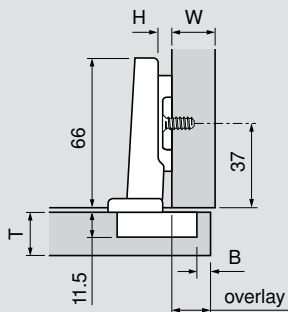
CLIP top

## Overlay

### Frame




### Panel



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

Straight-arm	Self close
Screw-on	75T1550
Press-in 	75T1580
INSERTA	75T1590B

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

# CLIP top 110° hinges

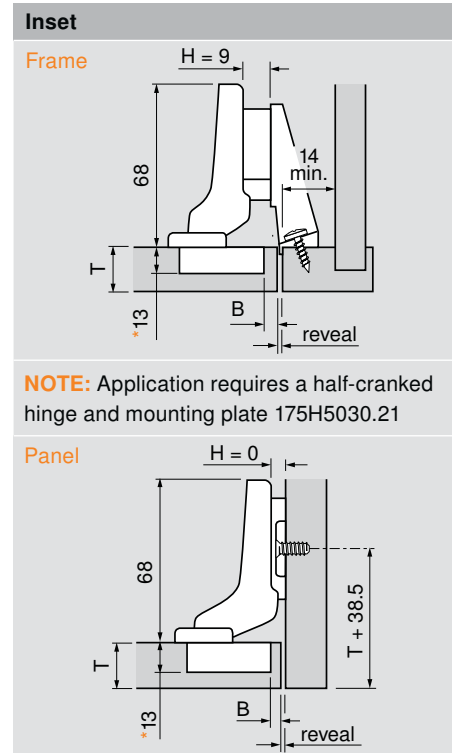
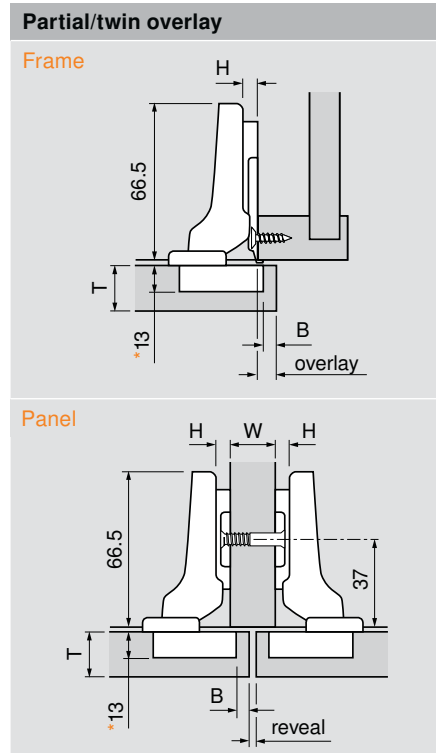
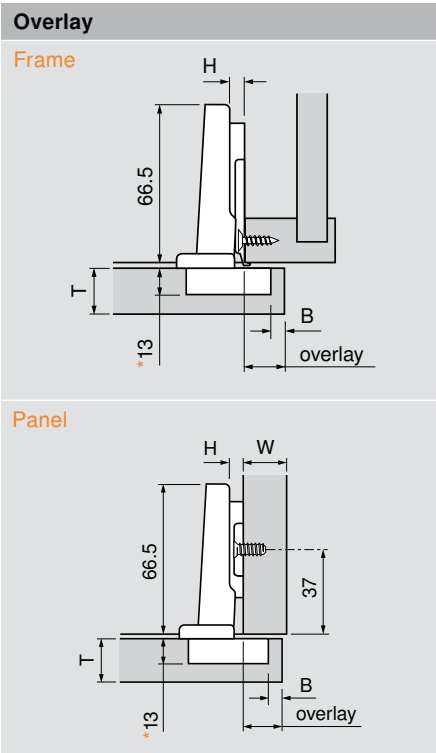


## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to 26 (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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
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 distance	16	19	22	24	26
T = door thickness					

For thickness greater than 26 trial app. recommended



**NOTE:** Application requires a half-cranked hinge and mounting plate 175H5030.21

\*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		
	B = boring distance							


H	Reveal					P	S
0	4	3	2	1	-	30	39.5
9	4.5	3.5	2.5	1.5	0.5	30.5	40
	3	4	5	6	7	fixed distance: 0 = -7 9 = 1.5	
	B = boring distance						

## Abbreviations

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

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

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

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

# CLIP top 110°+ hinges

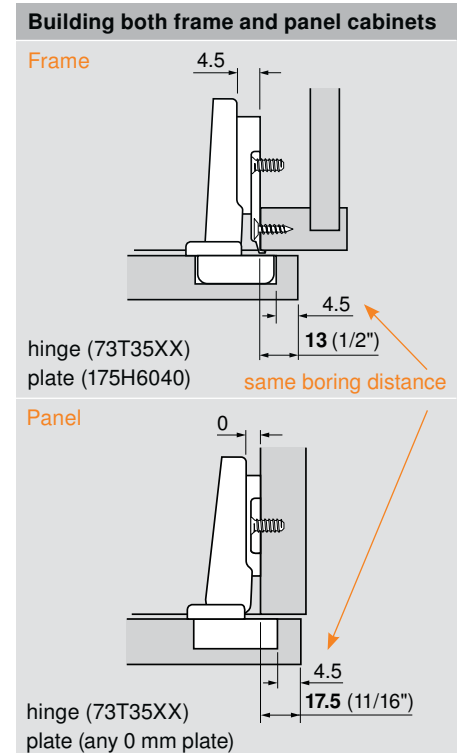
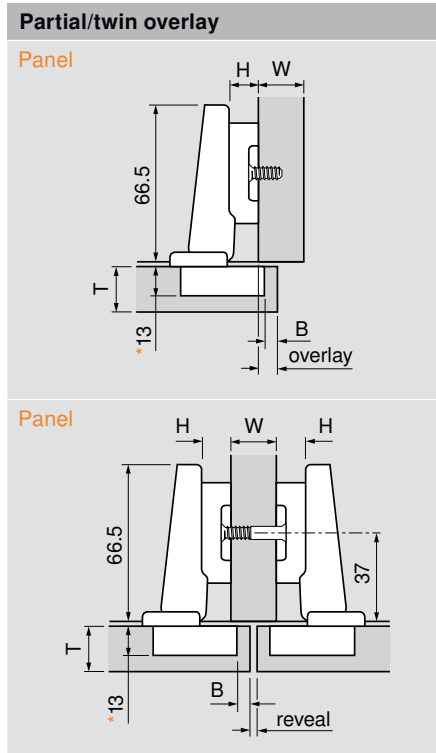
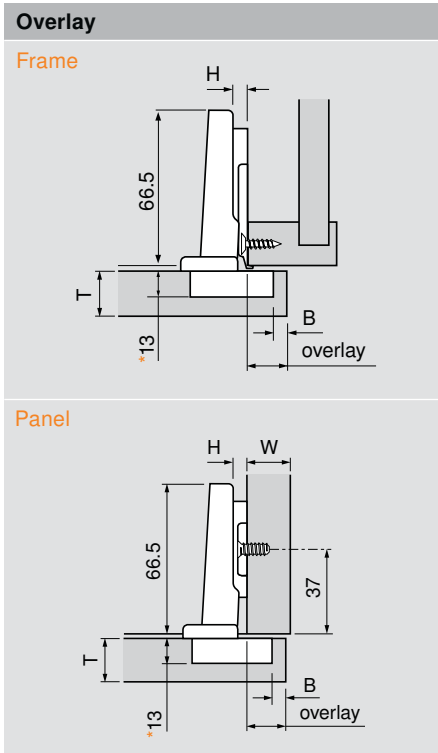


## Features

- For larger overlays (22 mm maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to **26** (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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 distance	16	19	22	24	26	T = door thickness

For thickness greater than 26 trial app. recommended



\*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

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

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

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

# CLIP top 120° hinges

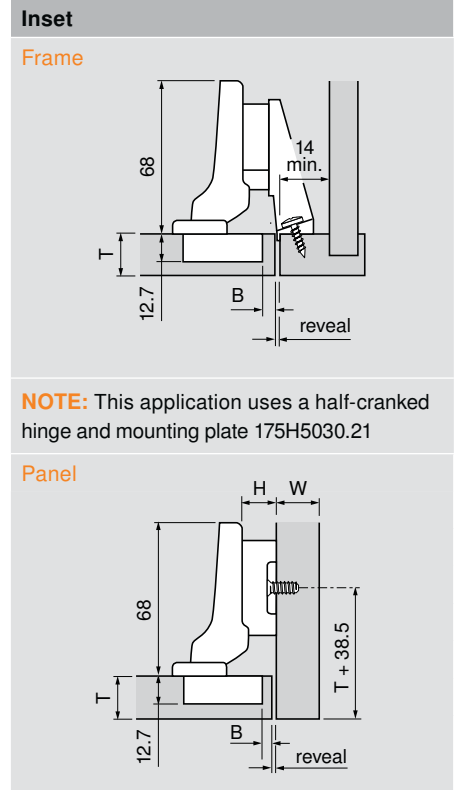
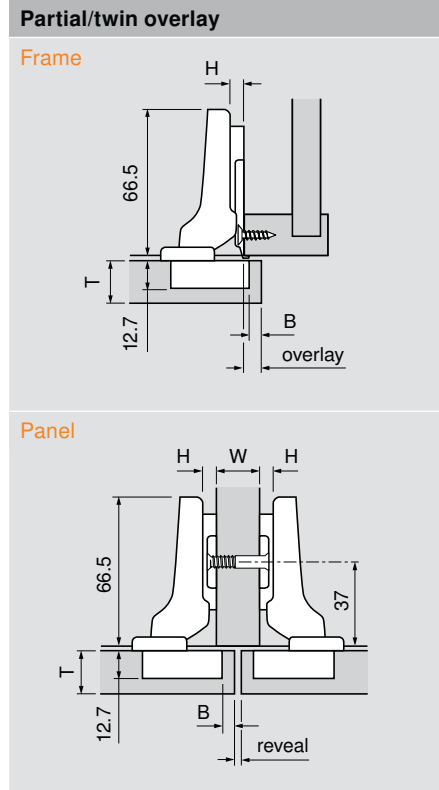
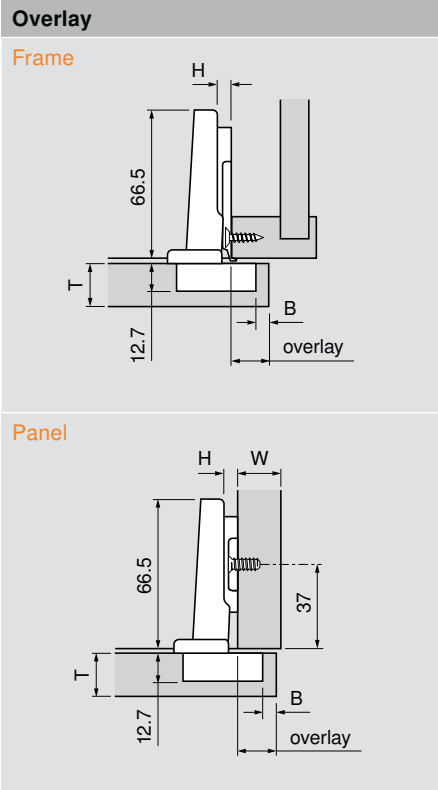


## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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
5	1.1	1.6	1.9	2.2	3.0
6	1.1	1.6	1.9	2.2	2.9
B = boring distance	16	18	19	20	22
	T = door thickness				

For thickness greater than 22 trial app. recommended



**NOTE:** This application uses a half-cranked hinge and mounting plate 175H5030.21

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
W	=	Side panel width

Straight-arm	Self close
Screw-on	71T5550
Press-in	71T5580
INSERTA	71T5590B
EXPANDO	71T558E

Half-cranked	Self close
Screw-on	71T5650
Press-in	71T5680
INSERTA	71T5690B

Half-cranked	Self close
Screw-on	71T5650
Press-in	71T5680
INSERTA	71T5690B



# CLIP top 120°+ hinges



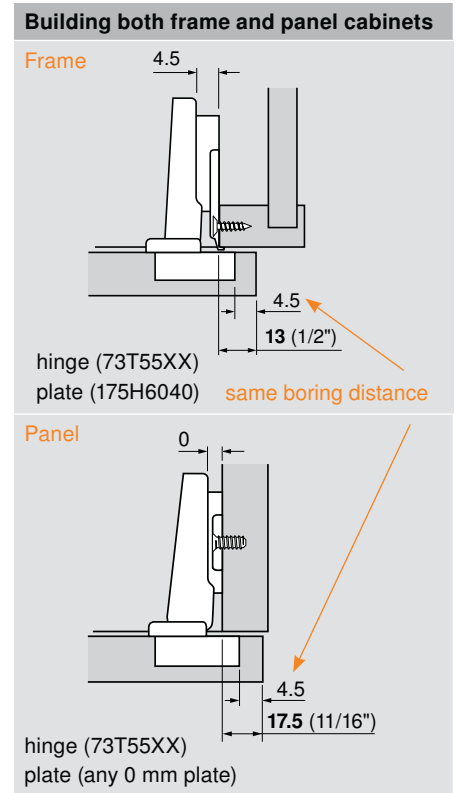
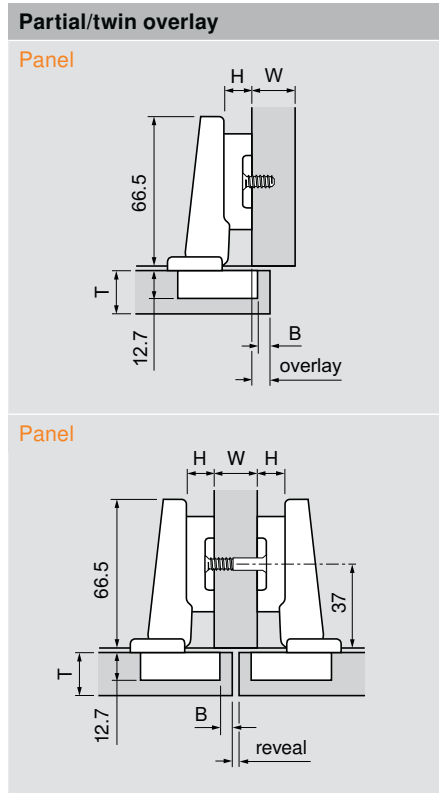
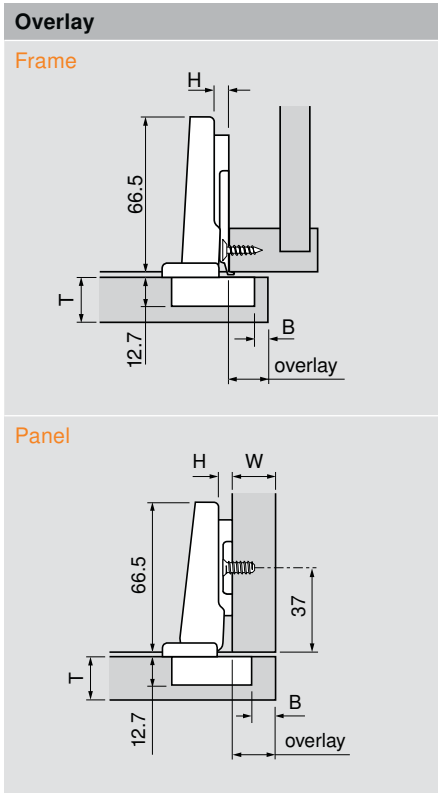
## Features

- For larger overlays (21 mm maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to **22** (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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 distance	16	18	19	20	22
T = door thickness					

For thickness greater than 22 trial app. recommended

CLIP top



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 face 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
	2	-	-	-	-	16		
9	5	3	2	-	-	19	18.5	28
	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

Straight-arm	Self close
Screw-on	<b>73T5550</b>
Press-in	<b>73T5580</b>
INSERTA	<b>73T5590B</b>
EXPANDO	<b>73T558E</b>

Straight-arm	Self close
Screw-on	<b>73T5550</b>
Press-in	<b>73T5580</b>
INSERTA	<b>73T5590B</b>
EXPANDO	<b>73T558E</b>

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

# CLIP top 170° hinges



## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- 130° angle restriction clip available (70.6103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

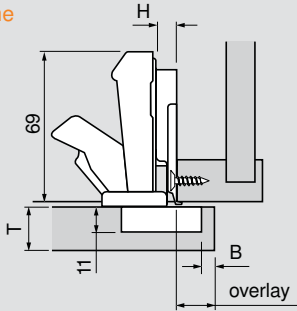
## Minimum reveal table

	3	4	5	6	7	8	B = boring distance	T = door thickness
3	0	0	0	0	0.2	2.2		
4	0	0	0	0	0	1.4		
5	0	0	0	0	0	0.9		
6	0	0	0	0	0	0		
7	0	0	0	0	0	0		
8	0	0	0	0	0	0		
B = boring distance	16	18	19	20	22	24		
T = door thickness								

For thickness greater than 24 trial app. recommended

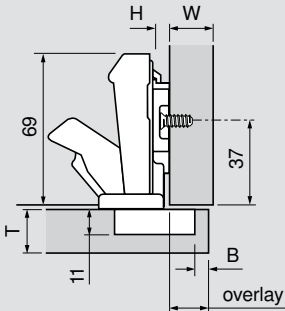
## Overlay

### Frame



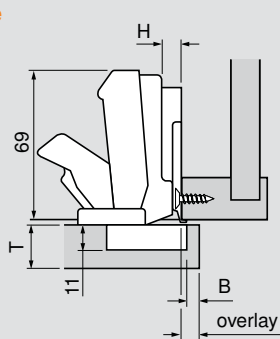
**NOTE:** 175H6xxx or 175L6600.24 recommended

### Panel

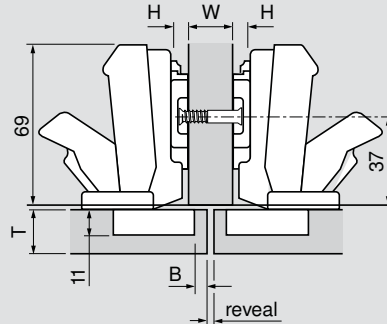


## Partial/twin overlay

### Frame



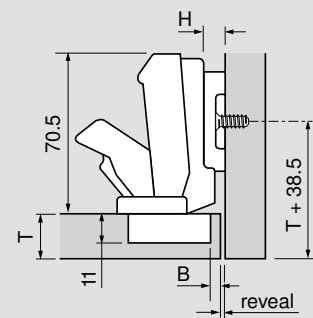
### Panel



## 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
	7	5	3	1	-	-	16	11	75
0	10	8	6	4	2	0	19		
	13	11	9	7	5	3	22		
	3	4	5	6	7	8	B = boring distance		
	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
W	=	Side panel width

Straight-arm	Self close	Free swing
Screw-on	71T6550	70T6550
Press-in 	71T6580	
INSERTA	71T6540B	70T6540BTL

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

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

# Special applications



## 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, easily and tool-free
- Black nylon

Part no. **70.6103**

### BLUMOTION for 170° hinges

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

Part no. **973A6000**

# CLIP top 95° thick door hinges

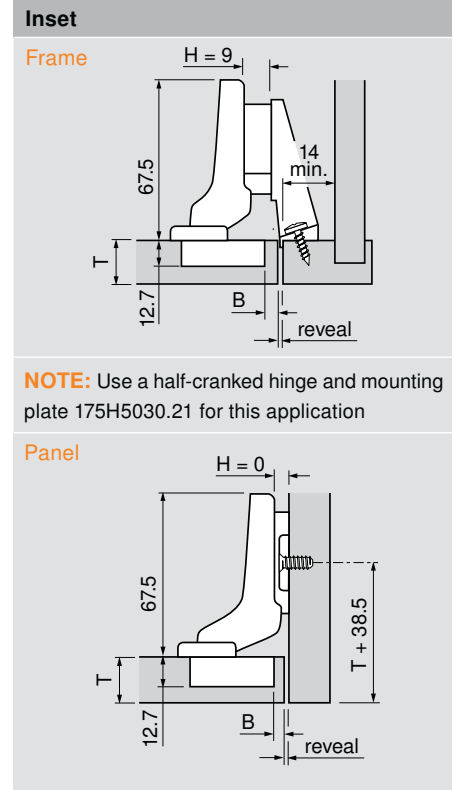
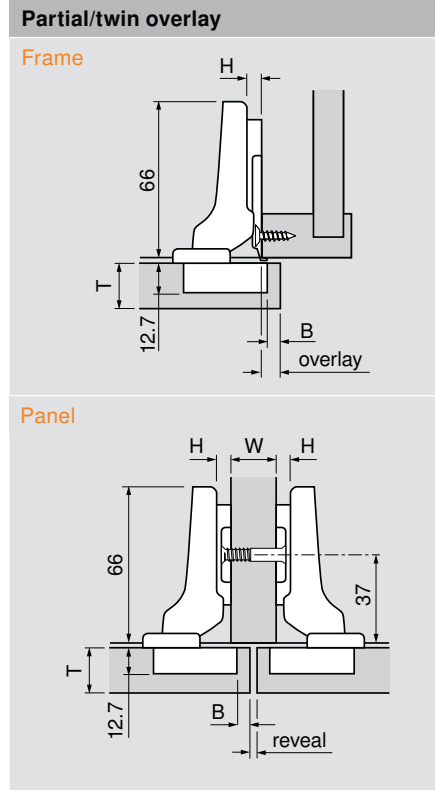
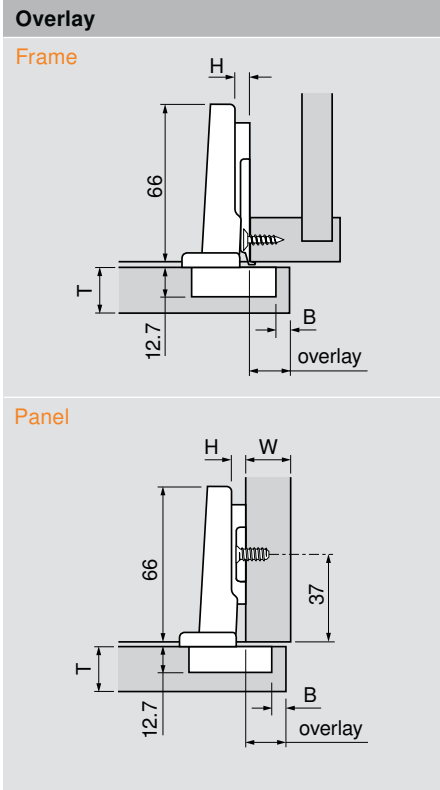


## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 30 (1-3/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table							
3	0.4	0.8	1.0	1.5	1.9	2.8	3.6
4	0.4	0.7	1.0	1.4	1.8	2.5	3.1
5	0.4	0.7	1.0	1.4	1.8	2.3	2.7
6	0.4	0.7	1.0	1.4	1.8	2.2	2.5
7	0.4	0.7	0.9	1.4	1.7	2.1	2.4
B = boring distance	19	22	24	26	28	29	30
T = door thickness							

For thickness greater than 30 trial app. recommended



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

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 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		
	B = boring distance							

H	Reveal					P	S
0	4	3	2	1	-	32.5	40
9	4.5	3.5	2.5	1.5	0.5	33	40.5
	3	4	5	6	7	fixed distance: 0 = -7 9 = 1.5	
	B = boring distance						

## Abbreviations

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

# CLIP top 155° zero protrusion hinges



## Features

- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- Angle restriction clips available
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

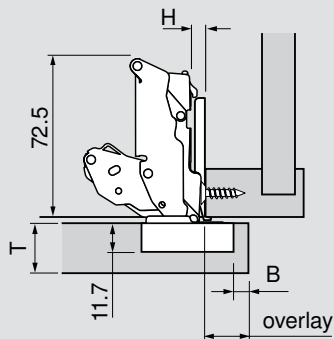
Minimum reveal table						
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
B = boring distance	16	18	19	20	22	24
T = door thickness						

For thickness greater than 24, please see page 27

CLIP top

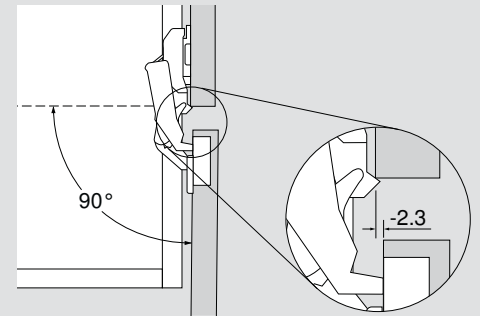
## Overlay

### Frame



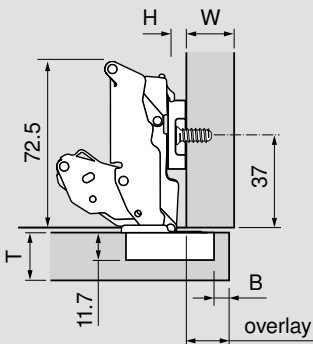
## Door protrusion

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.

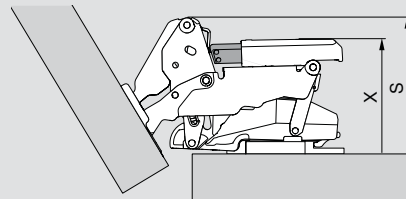


**NOTE:** Use of 0 mm or 3 mm is recommended for zero protrusion

### Panel

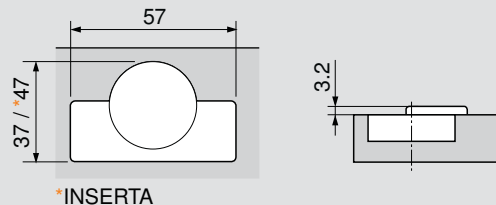


## BLUMOTION for 155° hinges



Hinge	X	S
CLIP top 155° straight-arm	53	62
CLIP top 155° half-cranked	63	72
Part no.		
BLUMOTION for 155° hinge	973A7000	

## Hinge cup dimensions



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	71T7500N
Press-in	71T7530N
INSERTA	71T7540N01

## Angle restriction clips



- For use with 155° hinges only
- Gray nylon

Part no.

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

## Abbreviations

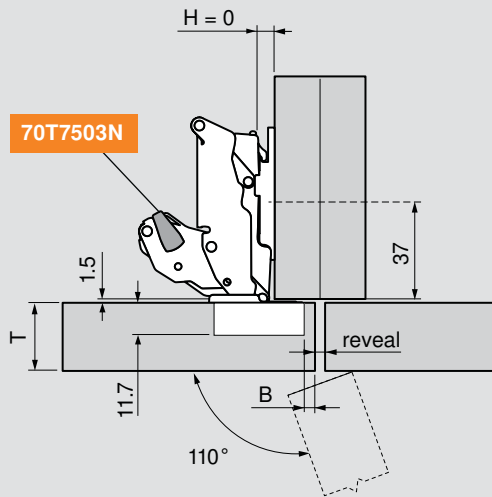
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width



# CLIP top 155° straight-arm special applications



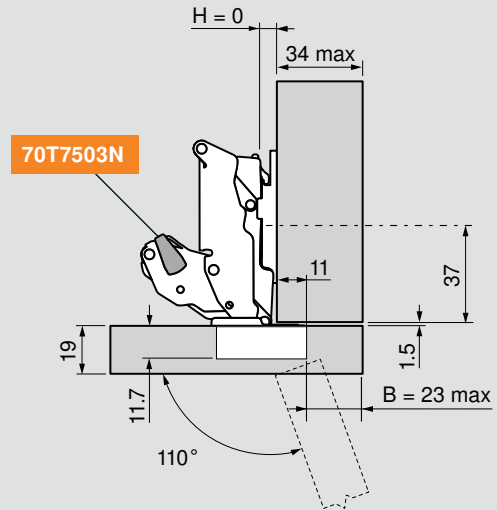
## Maximum door thickness



Trial application recommended

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

## Maximum door overlay



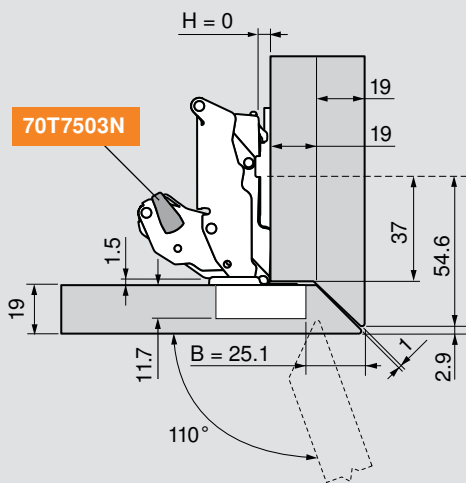
Trial application recommended

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							

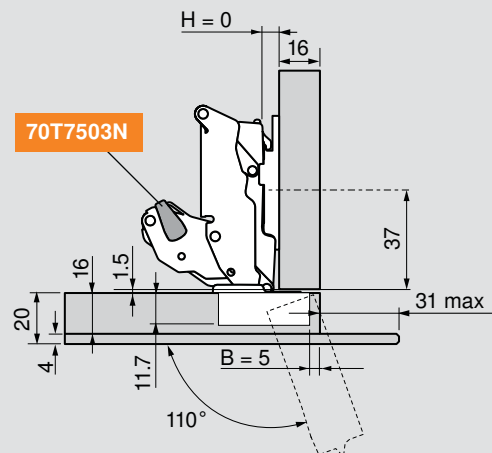
\*Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm

## Mitered door with large overlay



Trial application recommended

## Thin facing added to door



Trial application recommended

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

Straight-arm	Self close
Screw-on	<b>71T7500N</b>
Press-in	<b>71T7530N</b>
INSERTA	<b>71T7540N01</b>

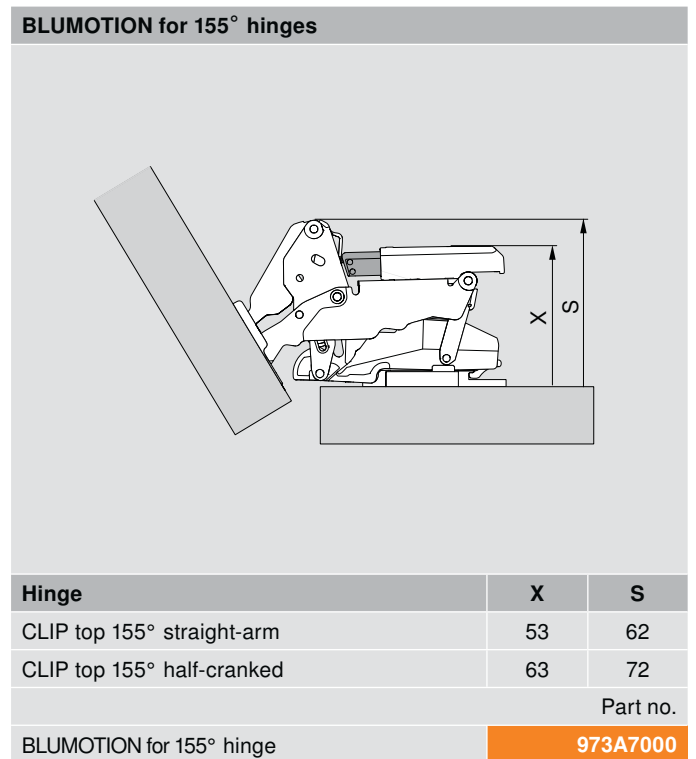
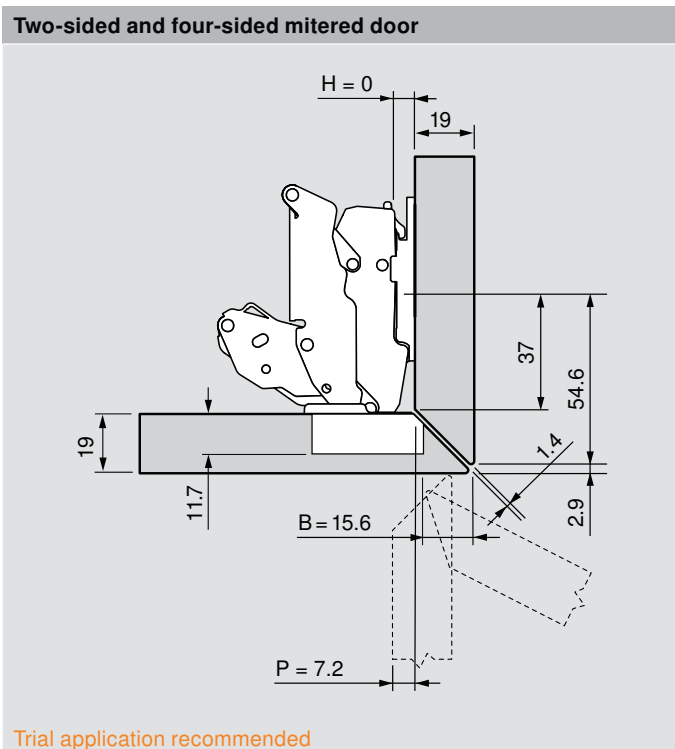
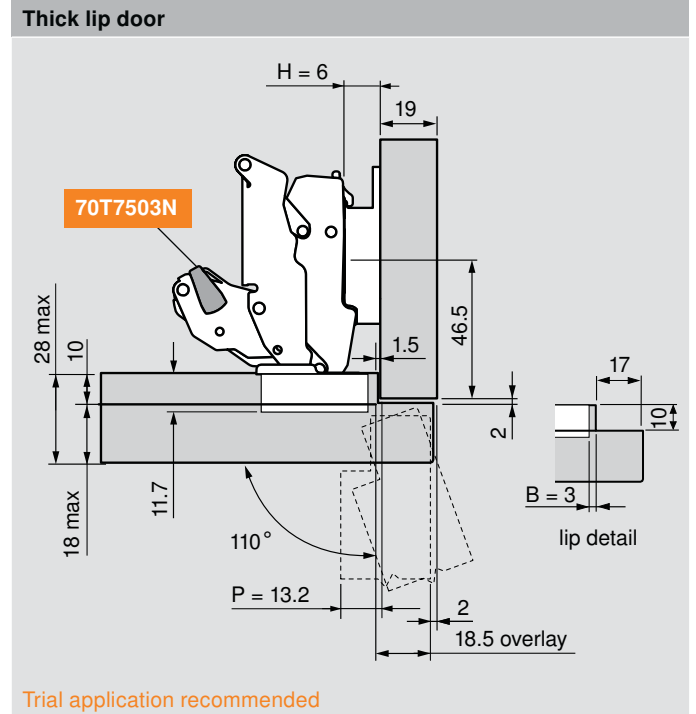
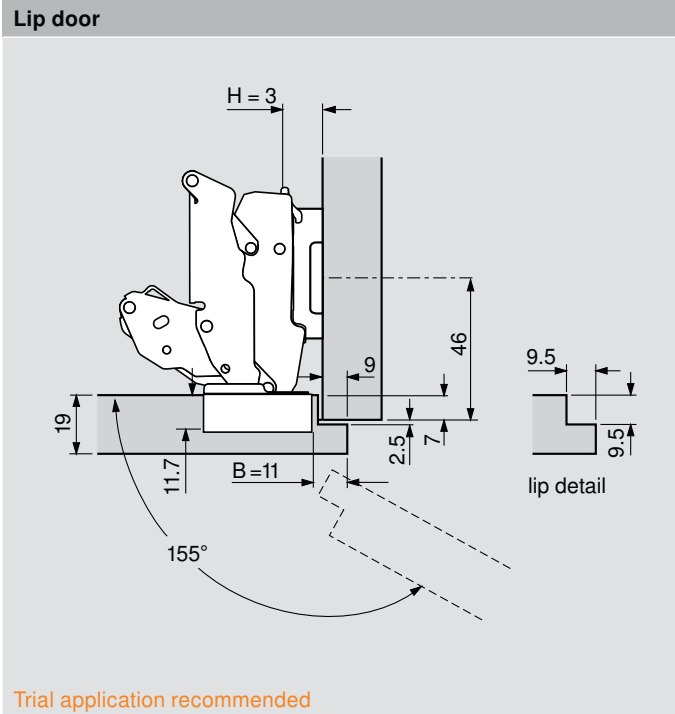
Angle restriction clips	
	For use with 155° hinges only Gray nylon
	Part no.
110° restriction clip	<b>70T7503N</b>
92° restriction clip	<b>70T7503N09</b>

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

# CLIP top 155° half-cranked special applications



CLIP top



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

Half-cranked	Self close
Screw-on	<b>71T7600N</b>
INSERTA	<b>71T7640N01</b>

### Angle restriction clips

For use with 155° hinges only  
Gray nylon

Part no.

110° restriction clip	<b>70T7503N</b>
92° restriction clip	<b>70T7503N09</b>

### Abbreviations

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

# CLIP top 120° aluminum door hinges for BLUMOTION



## Features

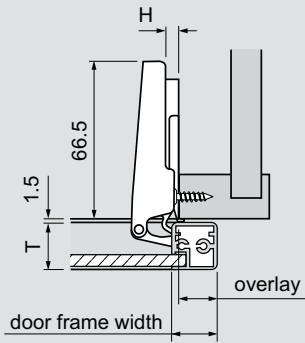
- For use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated

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					

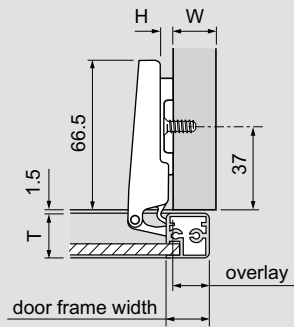
For thickness greater than 22 trial app. recommended

## Overlay

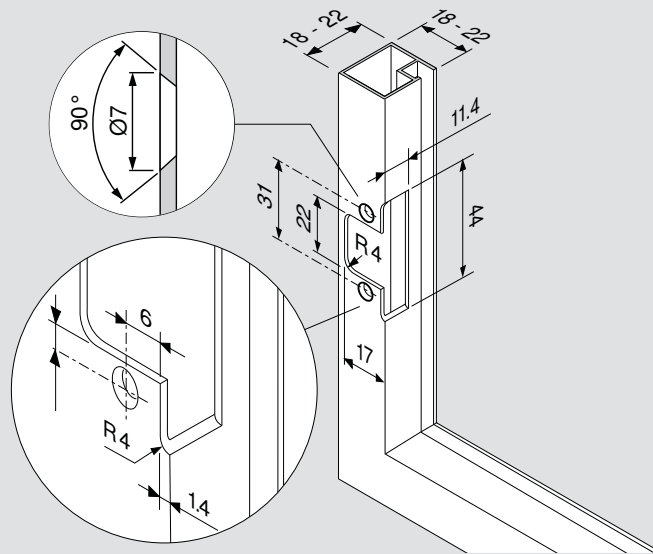
### Frame



### Panel

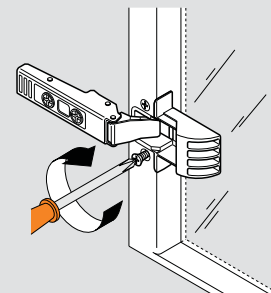
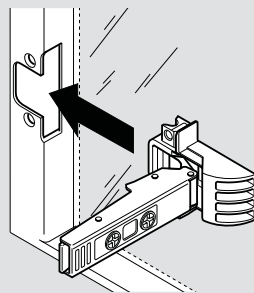


## Specifications



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	Self close
Screw-on	<b>73T550AB</b>

## Abbreviations

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

# CLIP top 120° aluminum door hinges



## Features

- Not for use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated

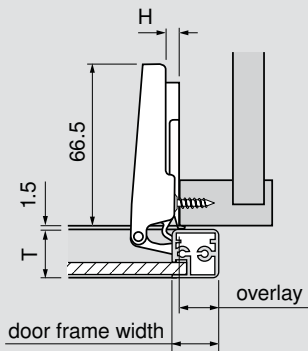
Minimum reveal table					
18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3
20	1.4	1.8	2.2	2.6	3.1
21	1.4	1.7	2.1	2.5	3.0
22	1.3	1.7	2	2.4	2.9
door frame width	18	19	20	21	22
	T = door thickness				

For thickness greater than 22 trial app. recommended

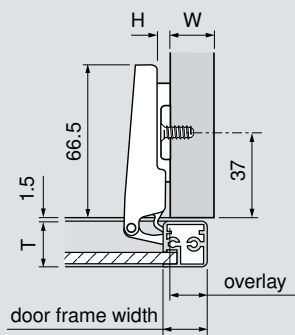
CLIP top

## Overlay

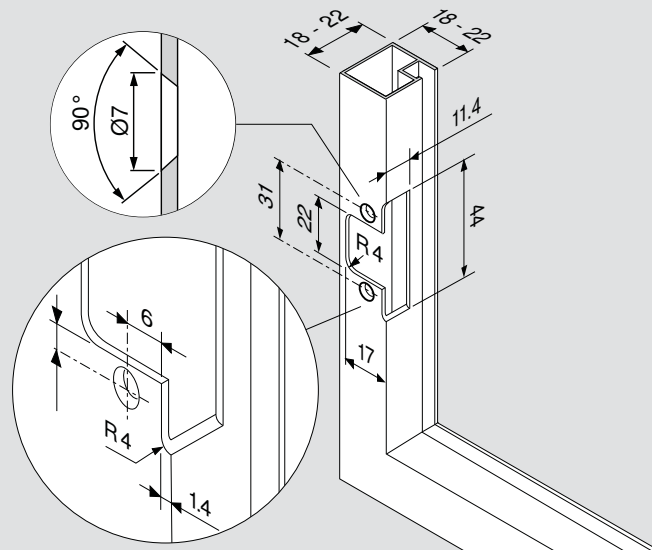
### Frame



### Panel

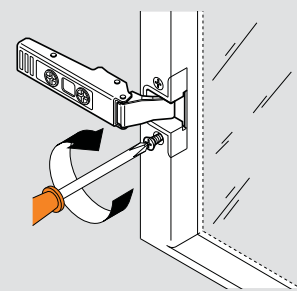
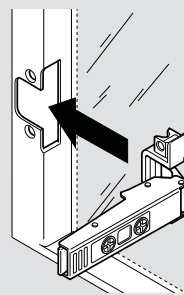


## Specifications



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
W	=	Side panel width

# CLIP top 95° inset blind corner hinge



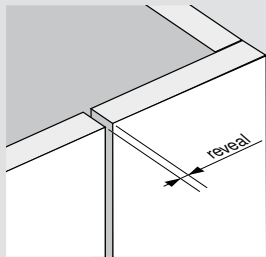
## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated

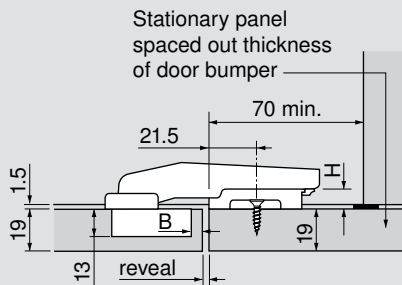
Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B = boring distance	16	18	19	20	22	24
T = door thickness						

For thickness greater than 24 trial app. recommended

## Flush door applications

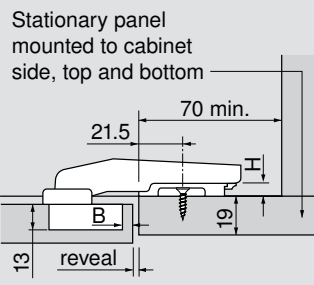
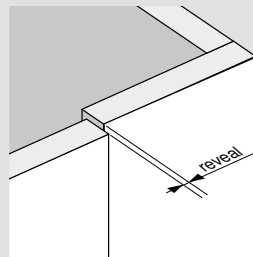


Back of door is flush with stationary panel



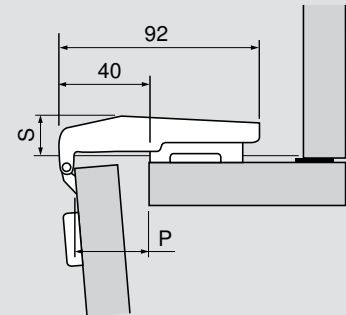
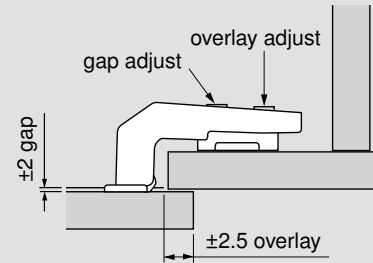
H	Reveal					P	S
3	5	4	3	2	1	33.5	21
	3	4	5	6	7		
B = boring distance							

## Offset door applications



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

## Adjustments and clearances



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

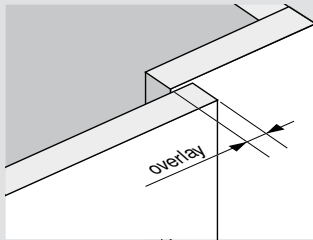
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated

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 = boring distance	16	18	19	20	22	24
	T = door thickness					

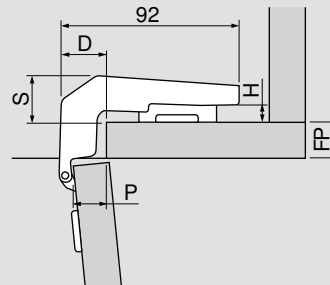
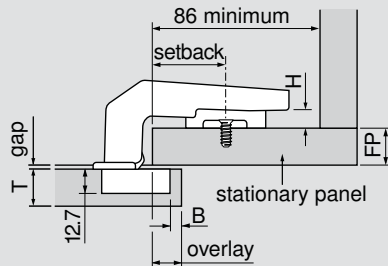
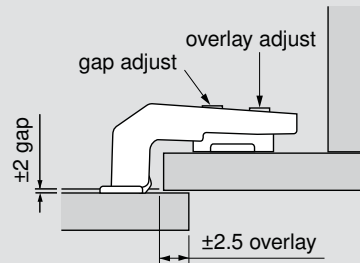
For thickness greater than 24 trial app. recommended

CLIP top

## Overlay application



## Adjustments and clearances



**NOTE:** Door gap can be adjusted  $\pm 2$  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 stationary panel thickness and the mounting plate height. 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

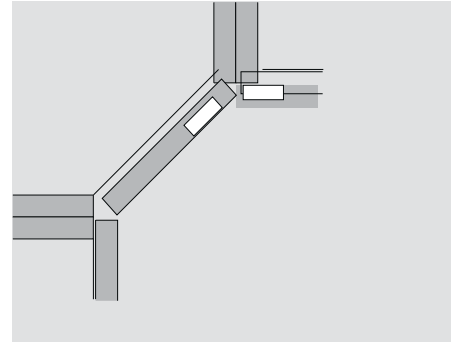


# CLIP top 110° diagonal hinges

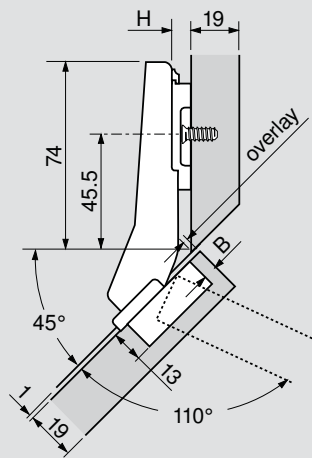
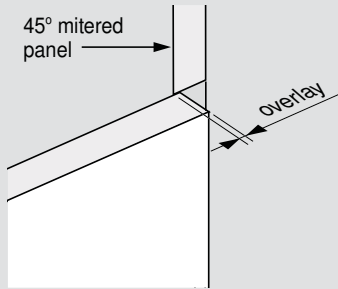


## Features

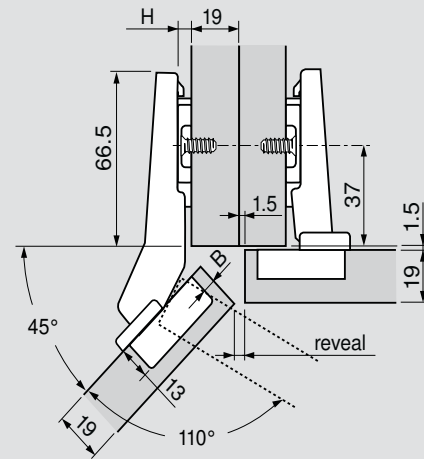
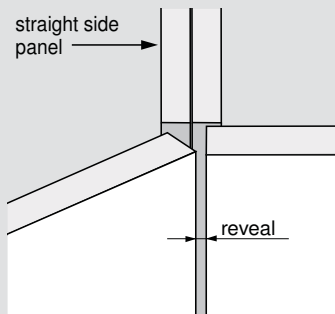
- Three-dimensional adjustment
- Available with INSERTA attachment
- All metal hinge, nickel-plated



## Overlay application



## Inside corner



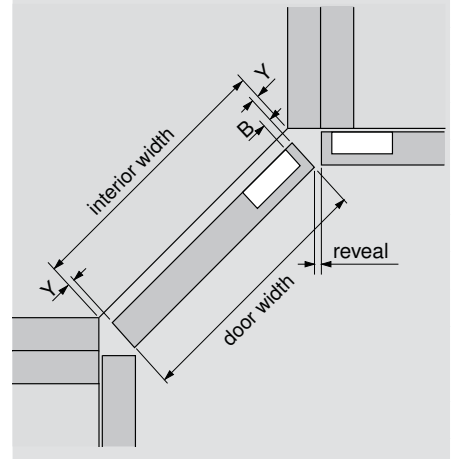
## Calculating door width

**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				

**NOTE:** 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			

**NOTE:** Based on 19 (3/4") door thickness

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

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

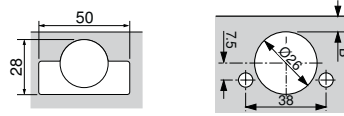
Abbreviations	
H	= Plate height
Y	= Side gap

# CLIP top 95° mini hinges



## Features

- For small doors or doors with small frames
- Side adjustment of +0.5 mm to -3.5 mm
- 26 mm drill bit required (1" cannot be used)
- Three-dimensional adjustment
- For door thicknesses up to 26 (1")
- All metal hinge, nickel-plated



Minimum reveal table							
3	1.1	2.2	3.0	3.8	5.5	7.3	9.1
4	1.1	2.0	2.7	3.5	5.0	6.8	8.6
5	1.1	1.8	2.4	3.0	4.6	6.3	8.0
B = boring distance	16	18	19	20	22	24	26
T = door thickness							

For thickness greater than 26 trial app. recommended

CLIP top

### Overlay

**Frame**

**Panel**

### Partial/twin overlay

**Frame**

**Panel**

### Inset

**Frame**

**Panel**

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

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

Screw-on	Self close
	71T0550

Screw-on	Self close
	71T0650

Screw-on	Self close
	71T0750

# CLIP top 95° glass door hinges

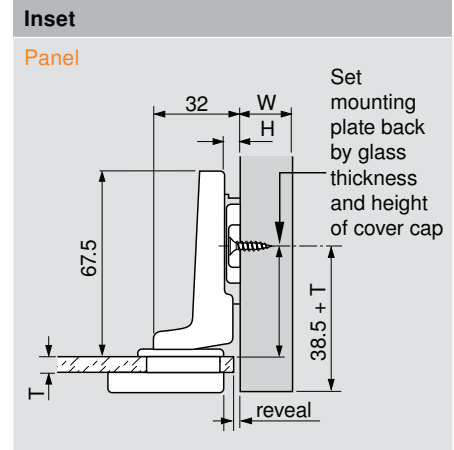
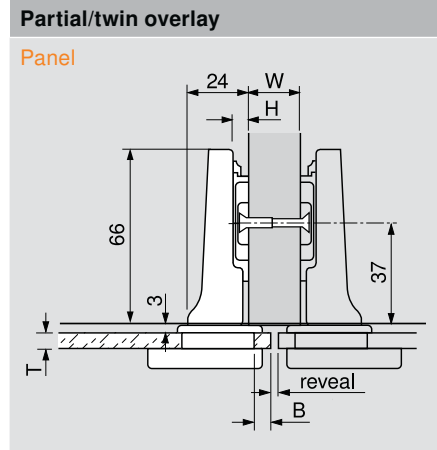
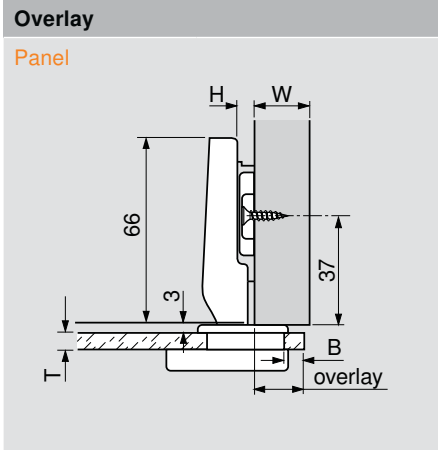


## Features

- 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" cannot be used)

Minimum reveal table				
5.5	0	0	0	0
6	0	0	0	0
6.5	0	0	0	0
7	0	0	0	0
B = boring distance	4.5	5	6	7
	T = door thickness			

For thickness greater than 7 trial app. recommended



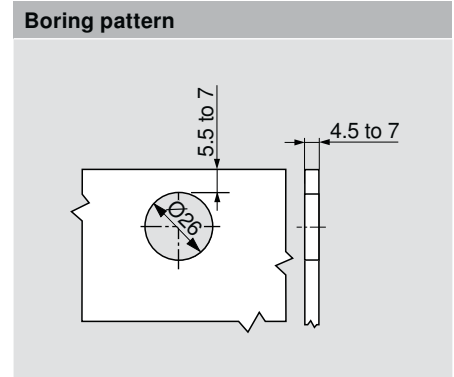
### Cover caps for door front

**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



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	15	24
	7	6	5	4	19		
	10	9	8	7	22		
	5.5	6	6.5	7	fixed distance = .5		
	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

Screw-on	Self close
	75T4100

Screw-on	Self close
	75T4200

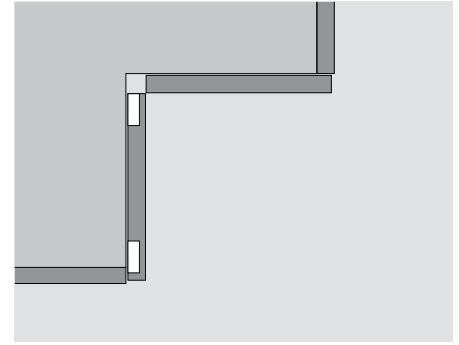
Screw-on	Self close
	75T4300

# CLIP top 60° bi-fold hinges

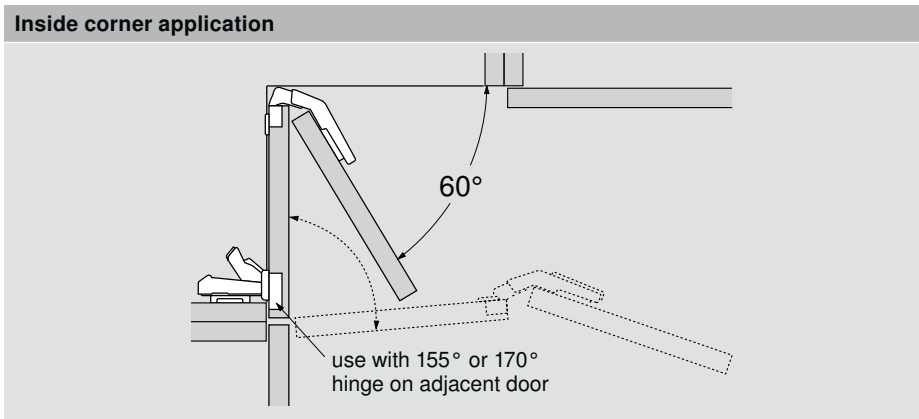


## Features

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



CLIP top



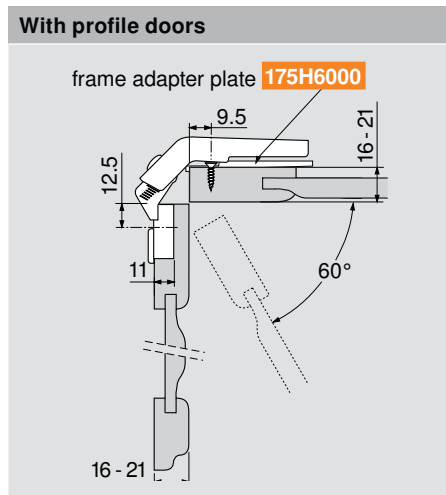
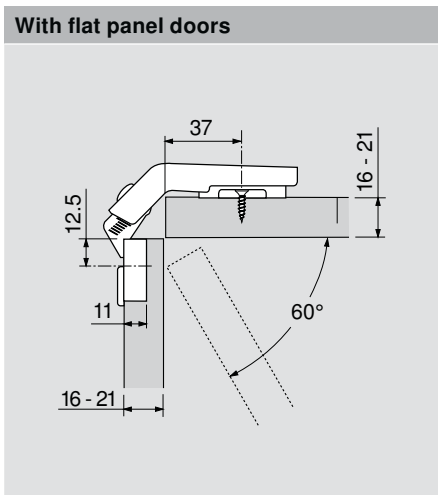
### Calculating door sizes

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

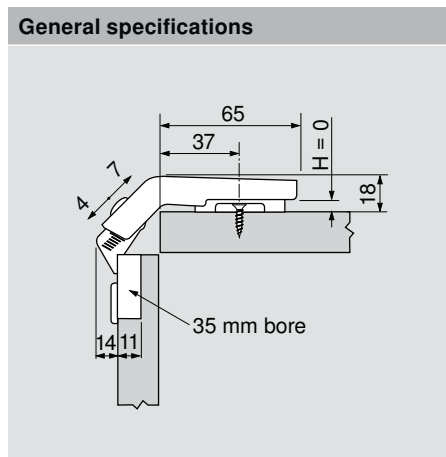
**Formula:**  $DW = (IW + W) \text{ minus } T \text{ minus } R \text{ minus } G$

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



### Adjustment

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



Bi-fold hinges	Self close
Screw-on	<b>79T8500.10</b>
Press-in	<b>79T8530.10</b>

### Abbreviations

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

# Euro hinge cover caps

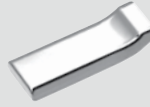
## Hinge arm cover cap



70.1503



70.1503.BP  
(Blum logo)



70.1663



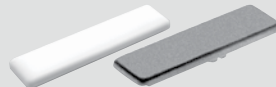
70.7503



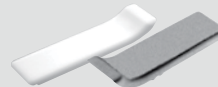
70.1563



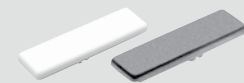
80.6507



90M2103.01



94M3203



90M2203

		Nylon	Steel
100°, 107°, 110°, 110°+, 120°, 120°+, thick door and bi-fold hinges	Straight-arm	90M2103.01	70.1503
	Embossed Blum logo		70.1503.BP
	Cranked-arm	94M3203	70.1663
170° hinges			80.6507
155° hinges			70.7503
Diagonal 45°, blind corner, narrow aluminum door hinges		90M2103.01	70.1503
Angled, mini and glass door hinges with straight or cranked-arms		90M2203	70.1563

**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 for CLIP top 107°, 120°, 120°+, thick door and blind corner hinges
- 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



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

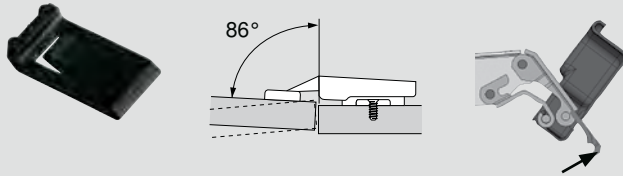
Part no.

Hinge cup spacer

70T3507.21

# CLIP top and CLIP angle restriction clips

## Angle restriction clip for 107° hinges



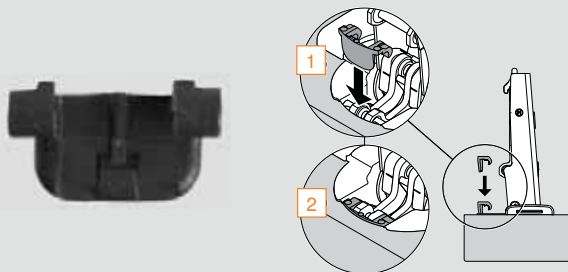
- Reduces opening angle of the CLIP top and CLIP 107° to 86°
- For use with CLIP top and CLIP 107° hinges only
- Installs quickly, easily and tool-free
- Non-removable
- Black nylon

Part no.

86° Angle restriction clip

74.1103

## Angle restriction clip for 110° hinges



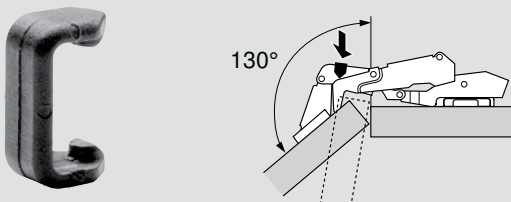
- Reduces opening angle of the CLIP top 110° and 110°+ to 86°
- For use with CLIP top 110° and 110°+ hinges only
- Installs quickly, easily and tool-free either before or after the hinge has been installed
- Black nylon

Part no.

86° Angle restriction clip

70T3553

## Angle restriction clip for 170° hinges



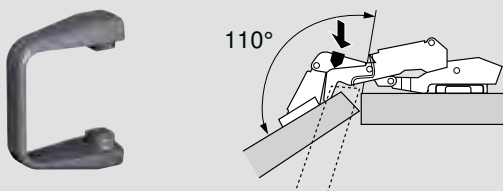
- Reduces opening angle of the CLIP top 170° to 130°
- Required for special applications of the 170° hinge
- Installs quickly, easily and tool-free
- Black nylon

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, easily and tool-free
- Gray nylon

Part no.

110° Angle restriction clip

70T7503N

92° Angle restriction clip

70T7503N09



## CLIP top angled hinges



### 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 38, 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 39 through 45 are in numerical order and show all the details.



### Positive angle hinges

Part no. <b>+15°</b> <b>79A9494BT</b>	Part no. <b>+20°</b> <b>79A9595BT</b>	Part no. <b>+30° II*</b> <b>79A9596BT1</b>	Part no. <b>+30° III*</b> <b>79A9496BT</b>
Part no. <b>+45° I*</b> <b>79A9698BT</b>	Part no. <b>+45° II*</b> <b>79T5590B</b>	Part no. <b>+45° III*</b> <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. <b>-15°</b> <b>79A5493BT</b>	Part no. <b>-30°</b> <b>79A5491BT</b>	Part no. <b>-45°</b> <b>79A5490BT</b>

### Standard thick door hinges used in angled applications

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

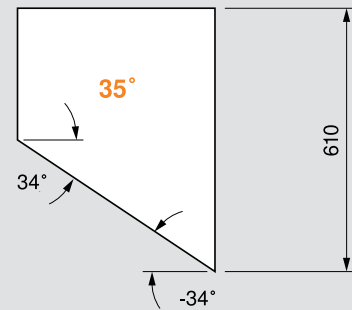
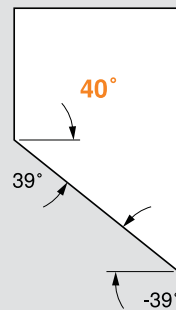
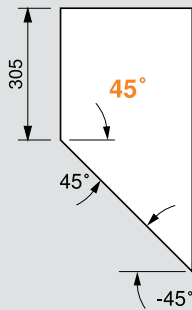
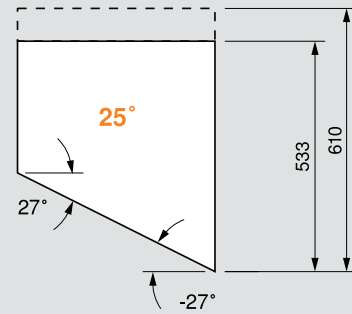
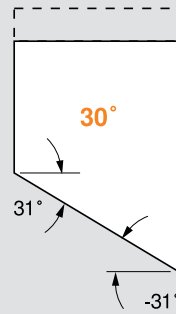
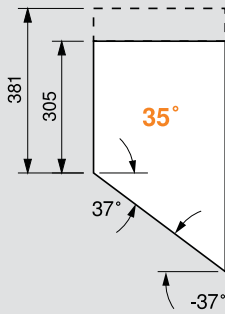
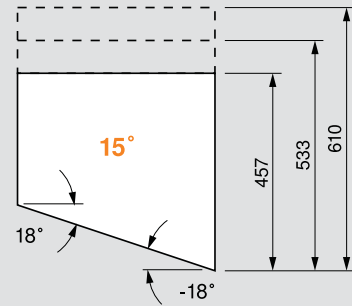
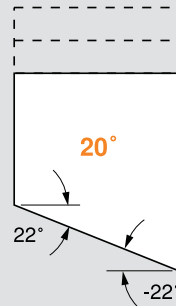
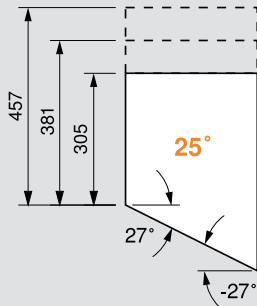
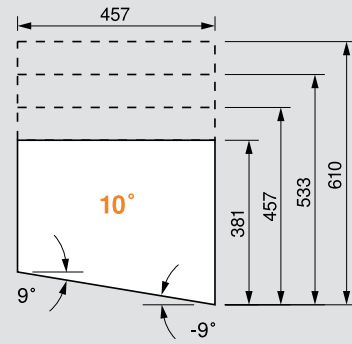
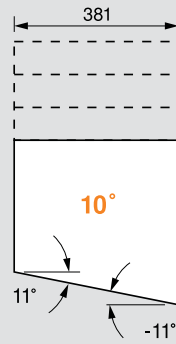
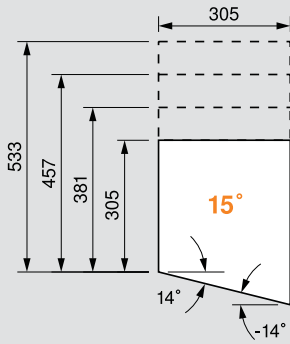
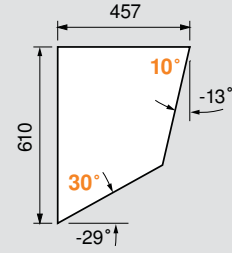
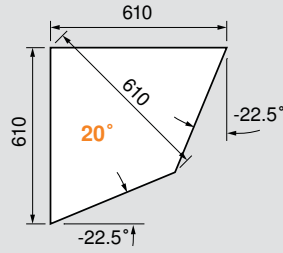
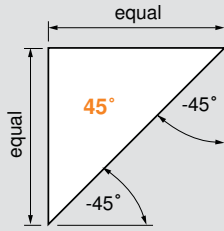
### Angled spacer wedges for positive and negative angled hinges

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

Angled

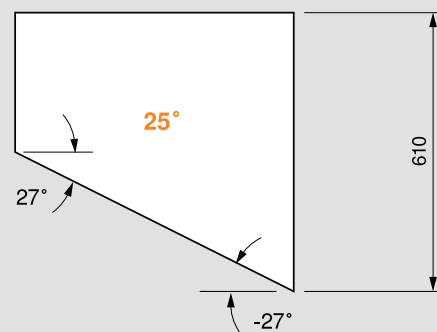
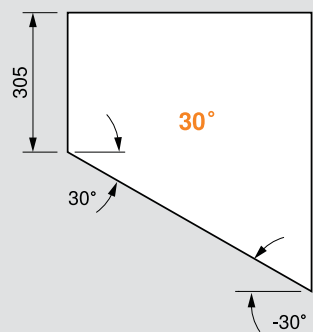
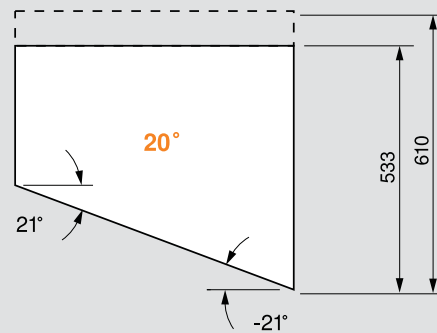
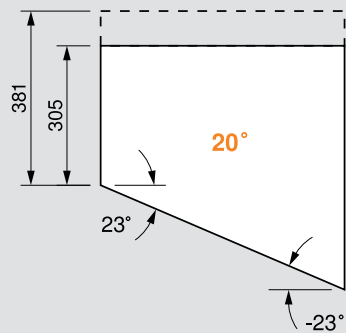
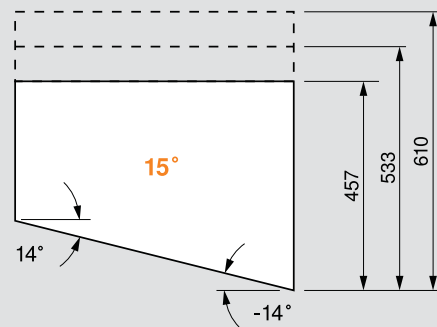
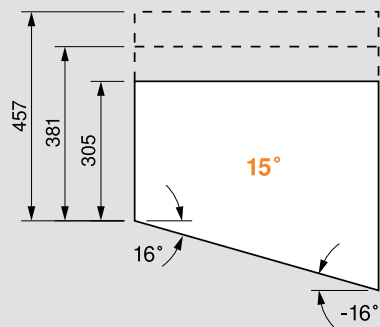
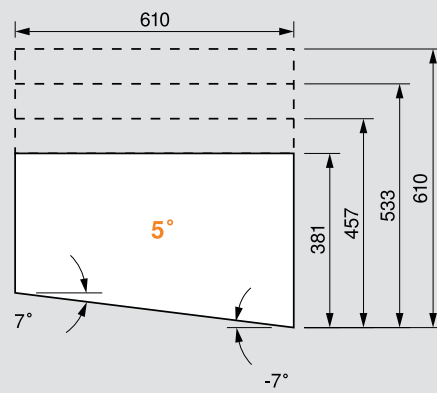
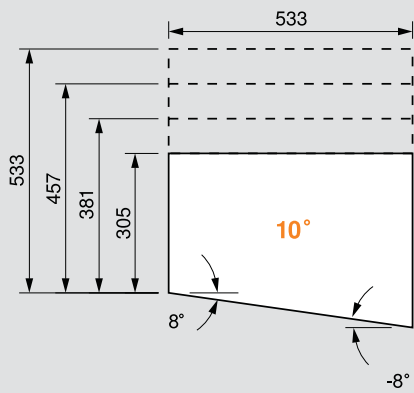
# Angled cabinet configurations

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





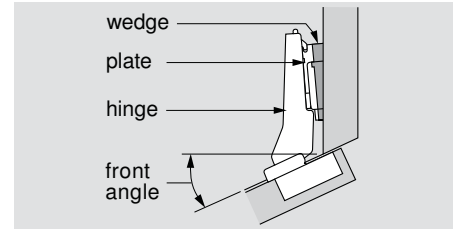
Match desired configuration to angle-to-style cross-reference chart on page 38



Angled

# 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.



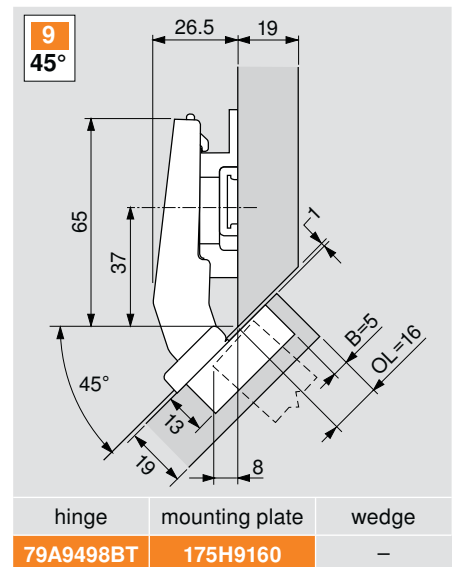
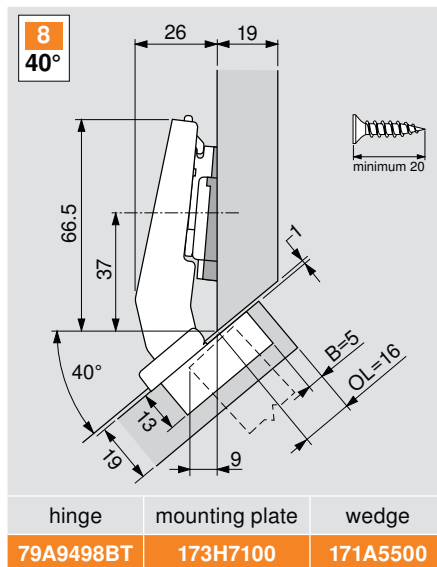
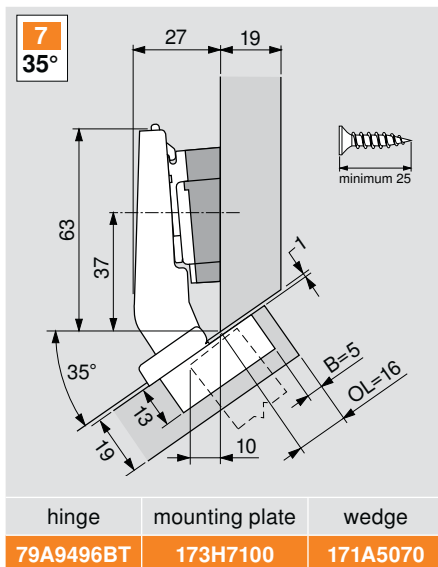
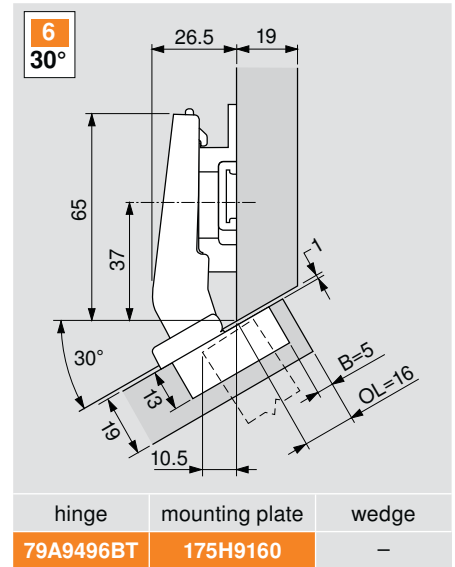
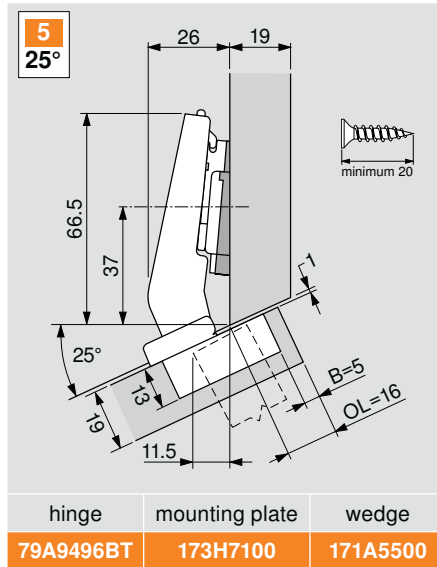
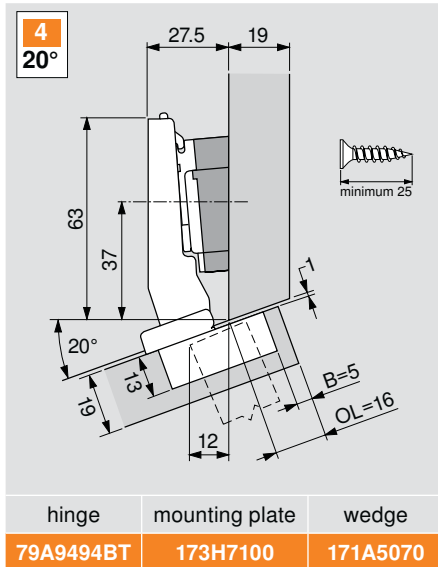
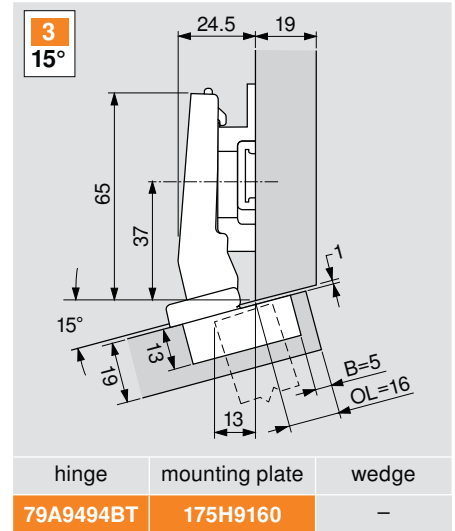
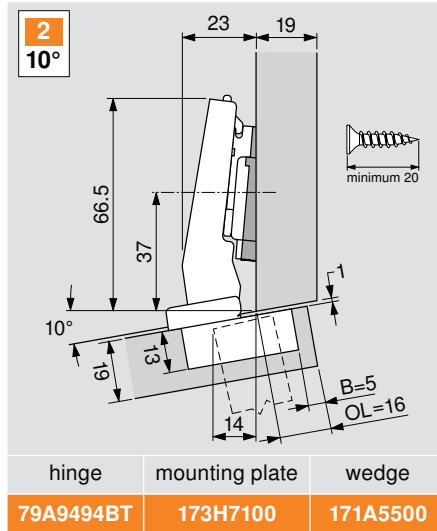
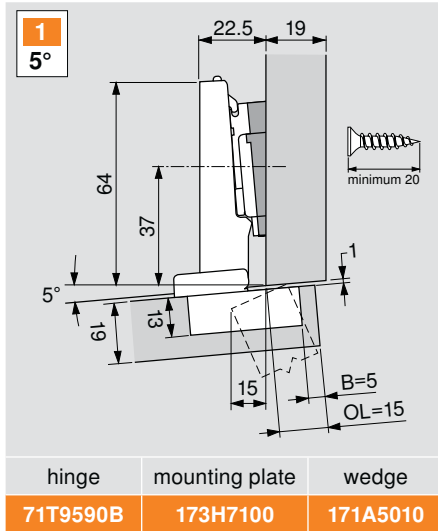
		Application number
hinge	CLIP top hinge	Part number
plate	CLIP mounting plate	Part number
wedge/spacer	may or may not be required	Part number

Positive angles					Negative angles		
	maximum overlay	partial overlay	corner merge	inset door	mitered corner	maximum overlay	inset door
5°	<b>1</b>	<b>10</b>	<b>19</b>	<b>27</b>		<b>42</b>	<b>51</b>
	71T9590B	71T9590B	71T9690B	71T9790B		71T9590B	71T9690B
	173H7100	173H7100	173H7100	173H7100		173H7100	173H7100
	171A5010	171A5010	171A5070	171A5010		171A5500	171A5500
10°	<b>2</b>	<b>11</b>	<b>20</b>	<b>28</b>		<b>43</b>	<b>52</b>
	79A9494BT	79A9494BT	79A9494BT	79A9494BT		79A5493BT	79A5493BT
	173H7100	173H7100	175H9190.22	175H9190.22		173H7100	175H7190
	171A5500	171A5500	171A5500	171A5500		171A5010	171A5010
15°	<b>3</b>	<b>12</b>	<b>21</b>	<b>29</b>	<b>36</b>	<b>44</b>	<b>53</b>
	79A9494BT	79A9494BT	79A9595BT	79A9595BT	79A9595BT	79A5493BT	79A5493BT
	175H9160	175H9190	173H7130	175H9190	173H7100	173H7100	175H9190.22
			171A5500	171A5500	171A5500		
20°	<b>4</b>	<b>13</b>	<b>22</b>	<b>30</b>	<b>37</b>	<b>45</b>	<b>54</b>
	79A9494BT	79A9595BT	79A9595BT	79A9595BT	79A9595BT	79A5493BT	79A5493BT
	173H7100	173H7100	175H9190	175H9190.22	175H9160	173H7100	175H9160
	171A5070					171A5500	171A5500
25°	<b>5</b>	<b>14</b>	<b>23</b>	<b>31</b>	<b>38</b>	<b>46</b>	<b>55</b>
	79A9496BT	79A9595BT	79A9596BT1	79A9596BT1	79A9596BT1	79A5491BT	79A5491BT
	173H7100	173H7100	173H7100	175H9190.22	173H7100	173H7100	175H7190
	171A5500	171A5010	171A5500		171A5500	171A5040	171A5070
30°	<b>6</b>	<b>15</b>	<b>24</b>	<b>32</b>	<b>39</b>	<b>47</b>	
	79A9496BT	79A9596BT1	79A9596BT1	79A9596BT1	79A9596BT1	79A5491BT	
	175H9160	173H7100	175H9190	175H9190.22	173H7130	173H7130	
35°	<b>7</b>	<b>16</b>	<b>25</b>	<b>33</b>	<b>40</b>	<b>48</b>	
	79B9496BT	79A9596BT1	79A9596BT1	79A9596BT1	79A9596BT1	79A5491BT	
	173H7100	173H7100	173H7100	175H9190.22	173H7100	173H7100	
	171A5070	171A5010	171A5070	171A5010	171A5040	171A5500	
40°	<b>8</b>	<b>17</b>		<b>34</b>		<b>49</b>	
	79A9498BT	79A9498BT		79A9698BT		79A5490BT	
	173H7100	175H9160		175H9190		173H7100	
	171A5500	171A5500		171A5500		171A5040	
45°	<b>9</b>	<b>18</b>	<b>26</b>	<b>35</b>	<b>41</b>	<b>50</b>	<b>56</b>
	79A9498BT	79A5590B	79A9698BT	79A5590B	79A9698BT	79A5490BT	79A5490BT
	175H9160	173H7100	173H7100	175H9190.22	173H7100	173H7130	175H7190
							181.6130

# Maximum overlay specifications



## Positive angle applications



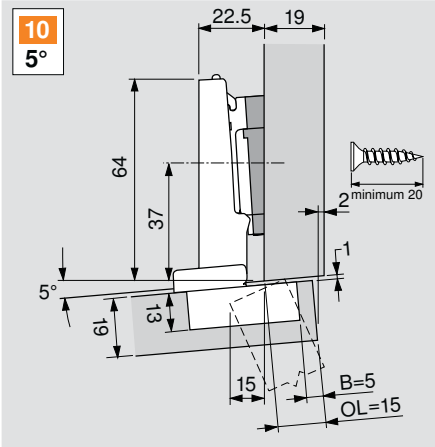
Angled



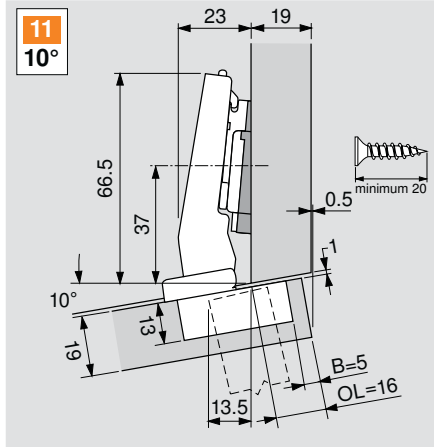
# Partial overlay specifications



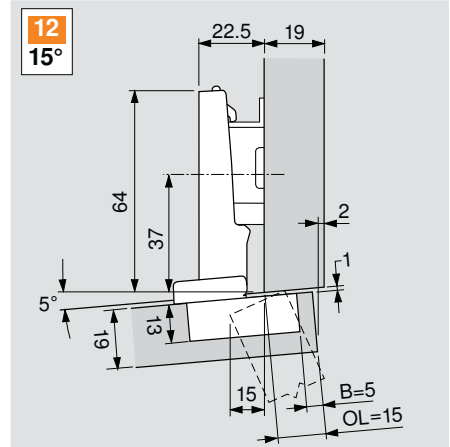
## Positive angle applications



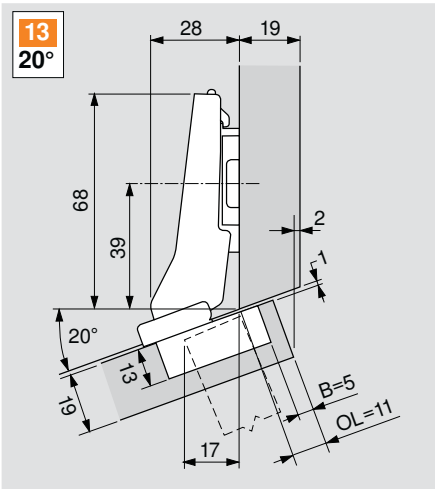
hinge	mounting plate	wedge
71T9590B	173H7100	171A5010



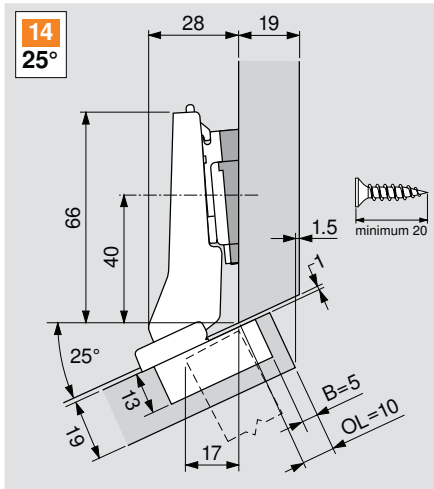
hinge	mounting plate	wedge
79A9494BT	173H7100	171A5500



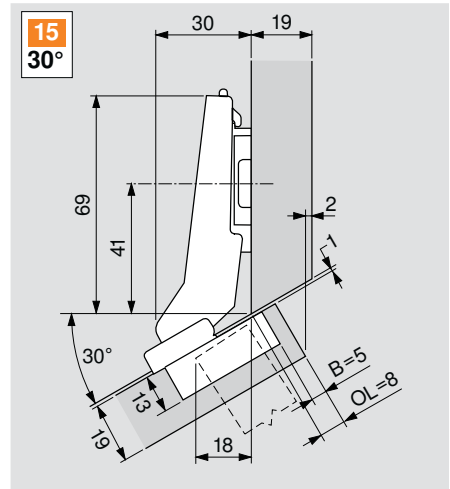
hinge	mounting plate	wedge
79A9494BT	175H9190	-



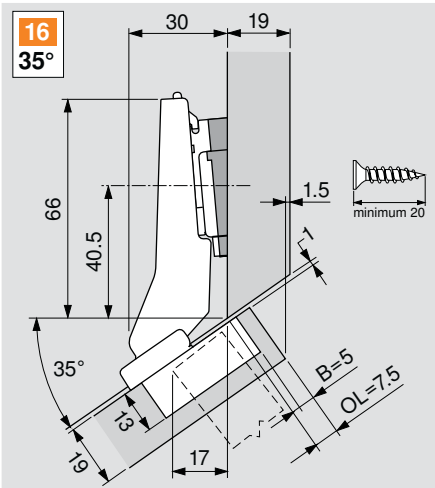
hinge	mounting plate	wedge
79A9595BT	173H7100	-



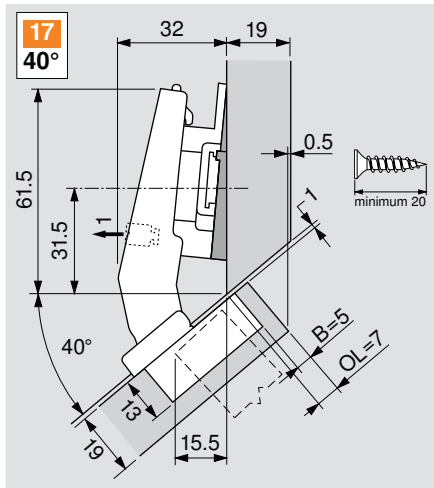
hinge	mounting plate	wedge
79A9595BT	173H7100	171A5010



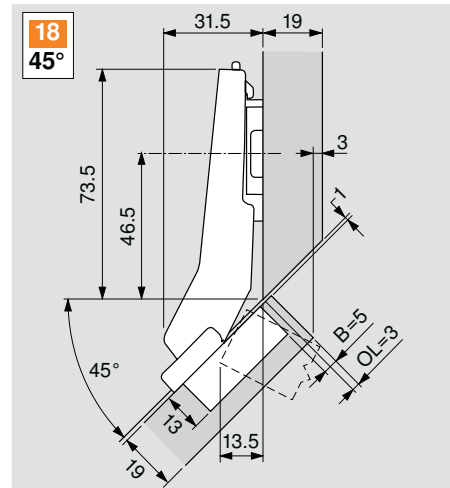
hinge	mounting plate	wedge
79A9596BT1	173H7100	-



hinge	mounting plate	wedge
79A9596BT1	173H7100	171A5010



hinge	mounting plate	wedge
79A9498BT	175H9160	171A5500

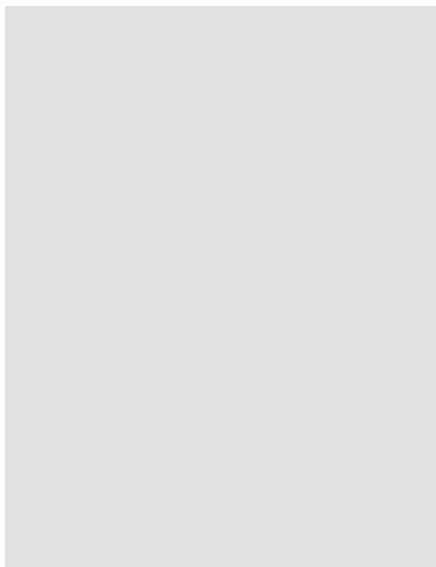
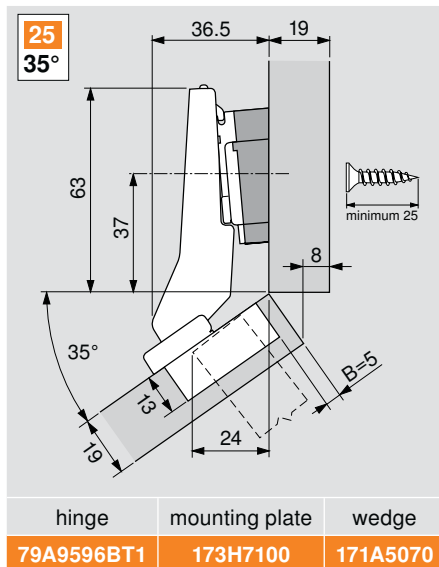
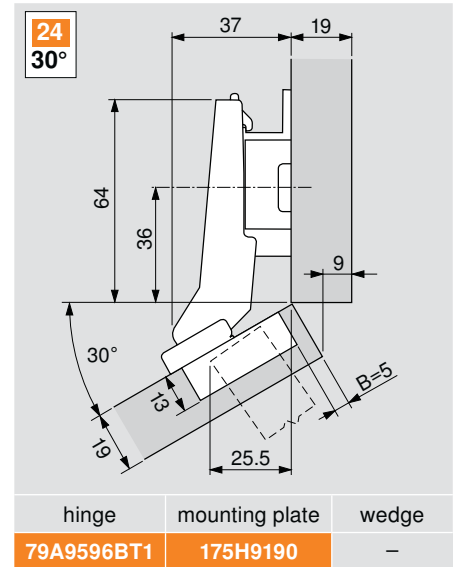
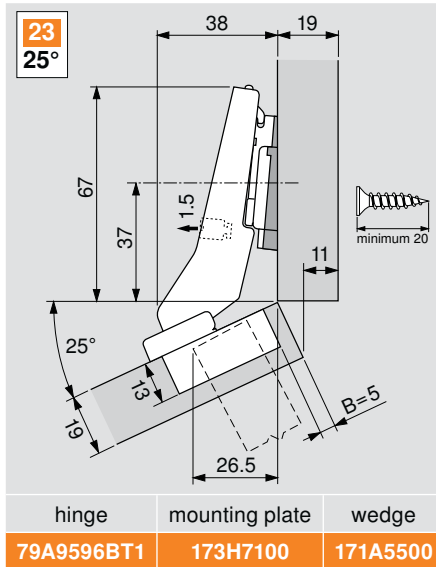
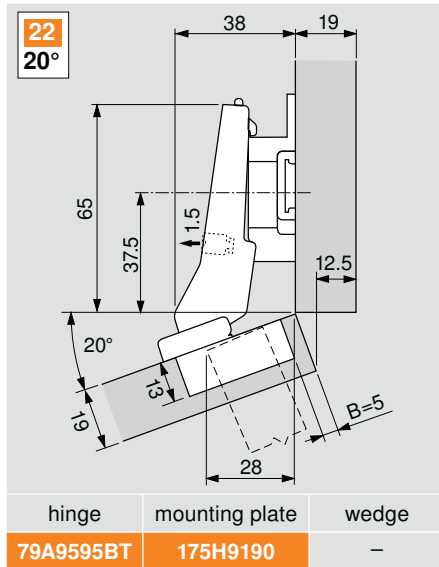
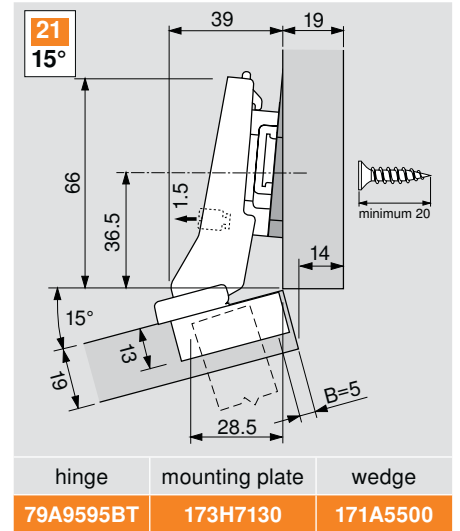
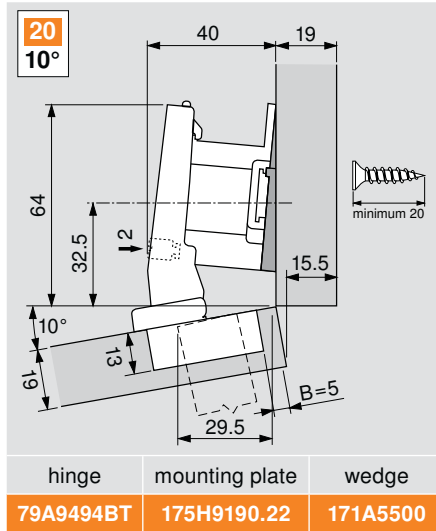
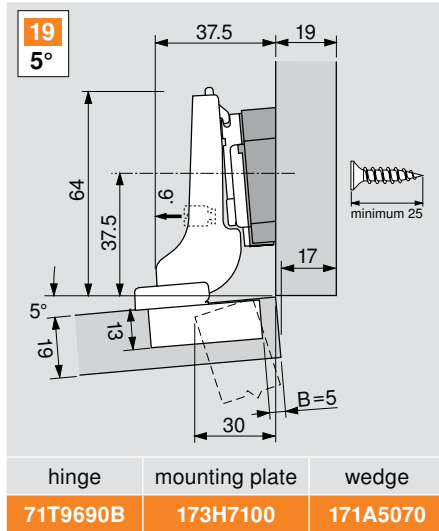


hinge	mounting plate	wedge
79A3598BT	173H7100	-

# Corner merge specifications



## Positive angle applications

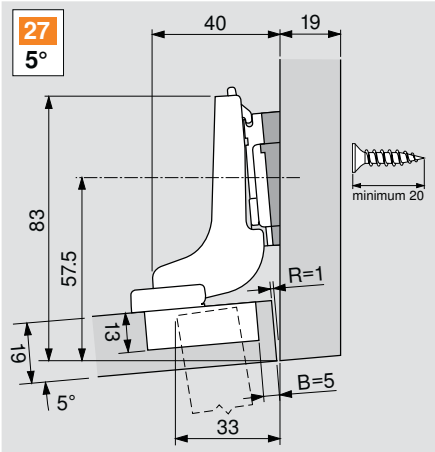


Angled

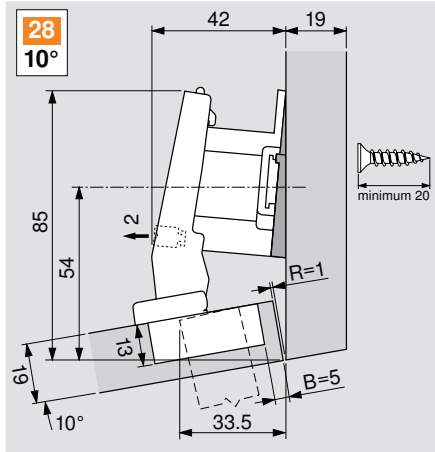
# Inset door specifications



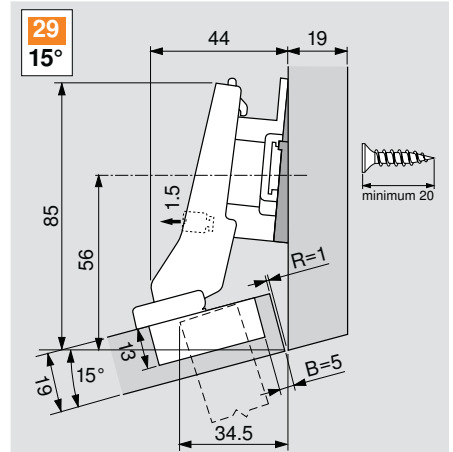
## Positive angle applications



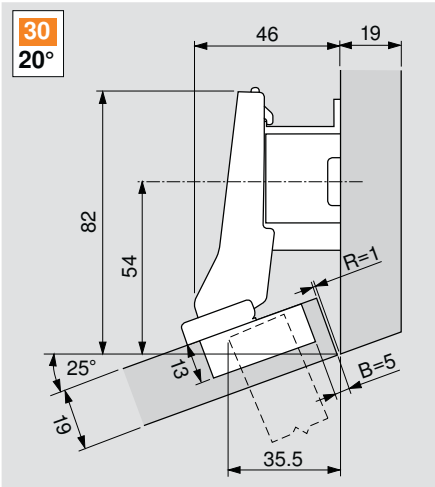
hinge	mounting plate	wedge
71T9790B	173H7100	171A5010



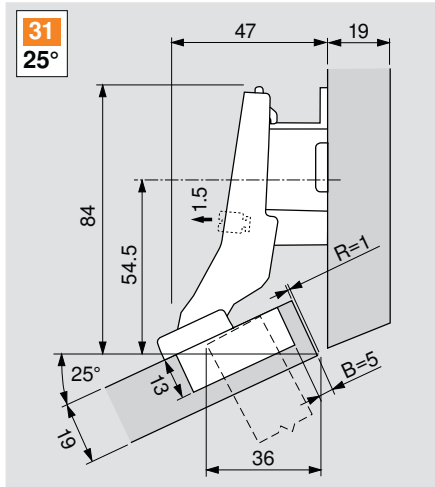
hinge	mounting plate	wedge
79A9494BT	175H9190.22	171A5500



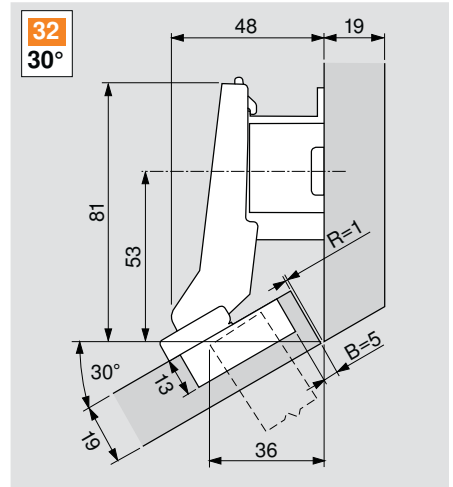
hinge	mounting plate	wedge
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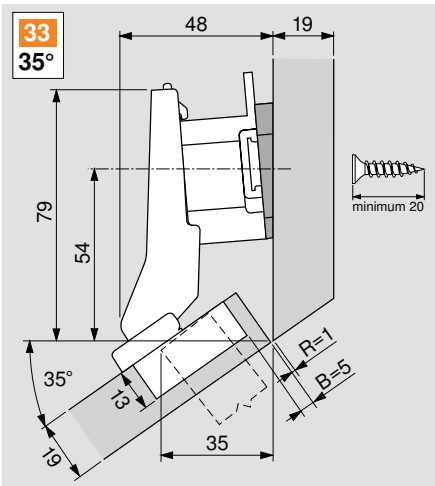
hinge	mounting plate	wedge
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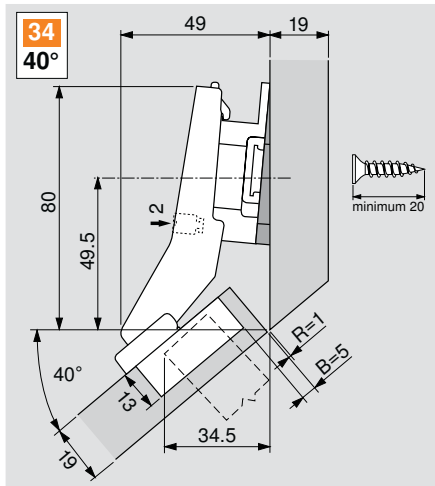
hinge	mounting plate	wedge
79A9596BT1	175H9190.22	-



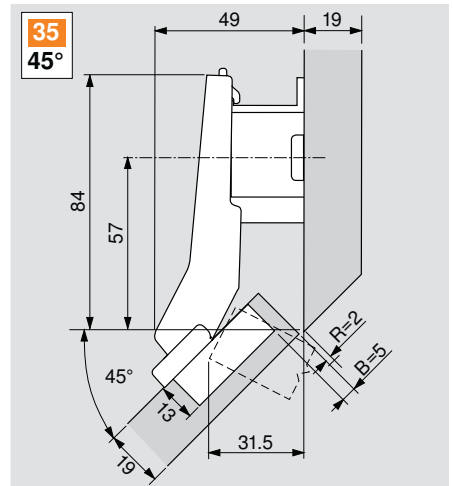
hinge	mounting plate	wedge
79A9596BT1	175H9190.22	-



hinge	mounting plate	wedge
79A9596BT1	175H9190.22	171A5010



hinge	mounting plate	wedge
79A9698BT	175H9190	171A5500



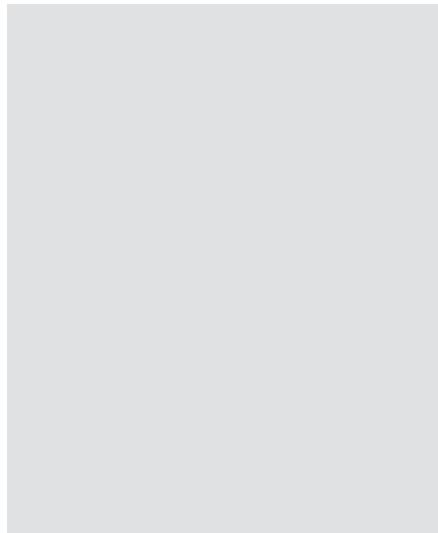
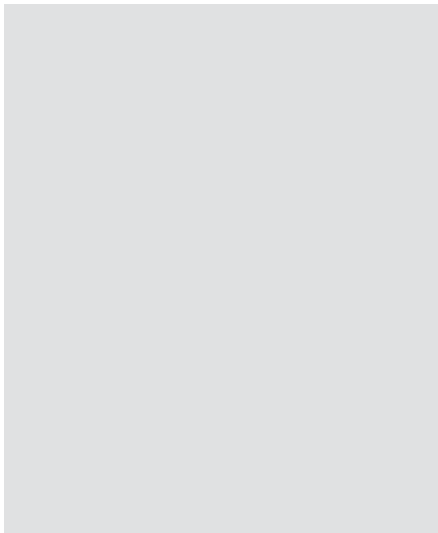
hinge	mounting plate	wedge
79A3598BT	175H9190.22	-

# Mitered corner specifications



## Positive angle applications

Angled



**36**  
**15°**

**NOTE:**

- Miter door 65°
- Miter side 40°
- Radius edges to fit
- Trial application recommended

minimum 20

hinge	mounting plate	wedge
79A9595BT	173H7100	171A5500

**37**  
**20°**

**NOTE:**

- Miter door 62°
- Miter side 48°
- Radius edges to fit
- Trial application recommended

hinge	mounting plate	wedge
79A9595BT	175H9160	-

**38**  
**25°**

**NOTE:**

- Miter door 70°
- Miter side 45°
- Radius edges to fit
- Trial application recommended

minimum 20

hinge	mounting plate	wedge
79A9596BT1	173H7100	171A5500

**39**  
**30°**

**NOTE:**

- Miter door 70°
- Miter side 50°
- Radius edges to fit
- Trial application recommended

hinge	mounting plate	wedge
79A9596BT1	173H7130	-

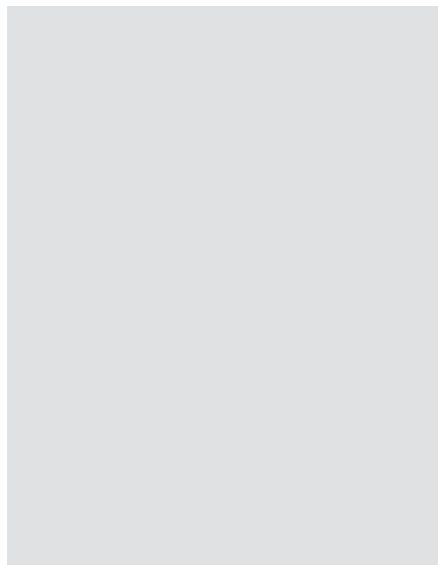
**40**  
**35°**

**NOTE:**

- Miter door 70°
- Miter side 55°
- Radius edges to fit
- Trial application recommended

minimum 25

hinge	mounting plate	wedge
79A9596BT1	173H7100	171A5040



**41**  
**45°**

**NOTE:**

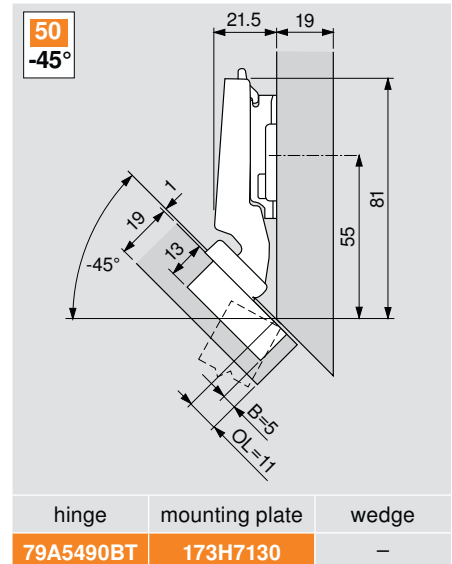
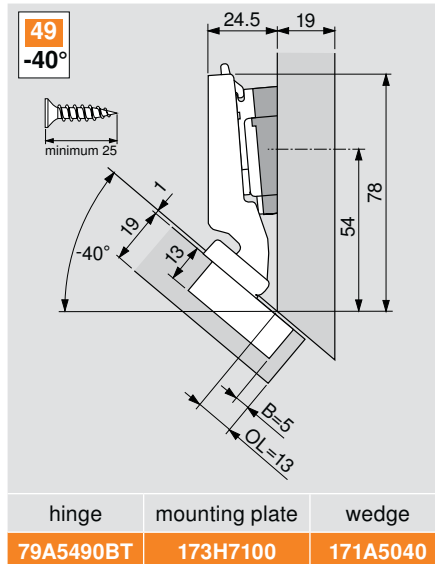
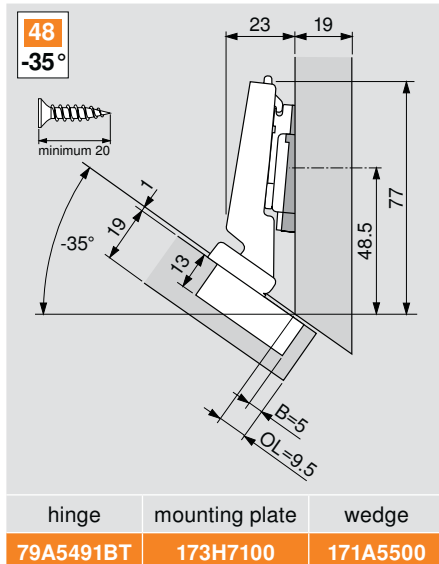
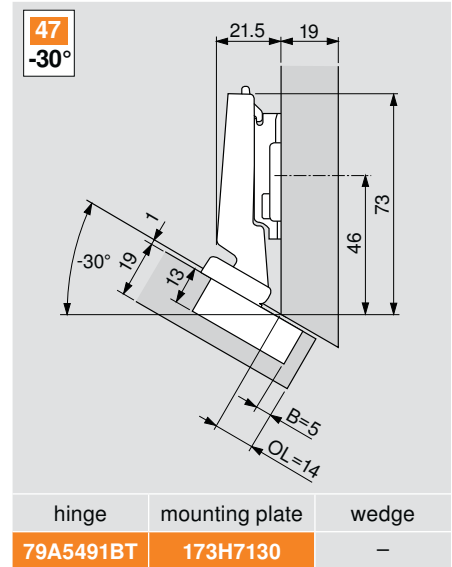
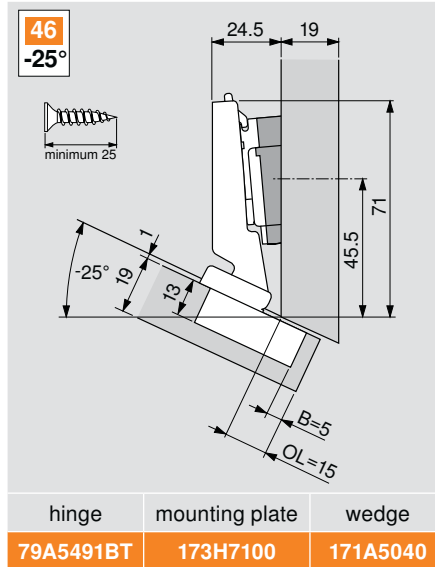
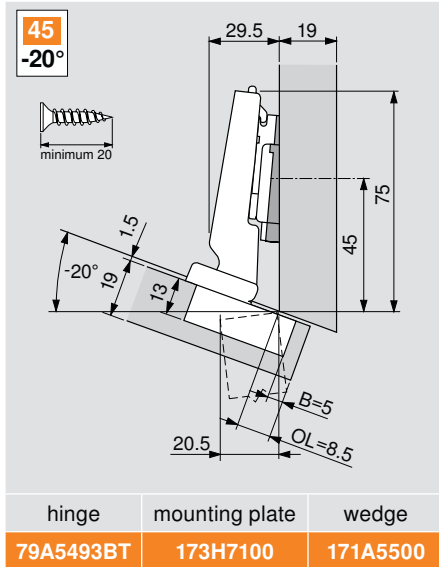
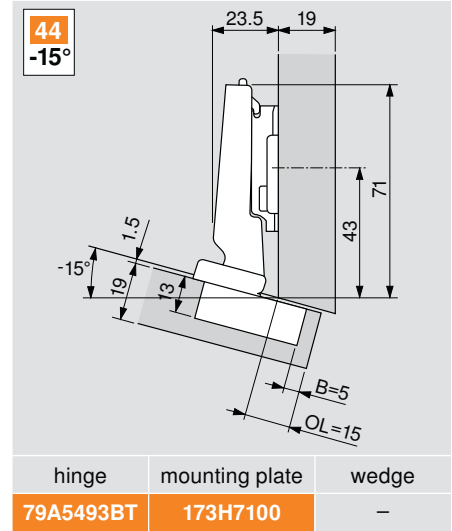
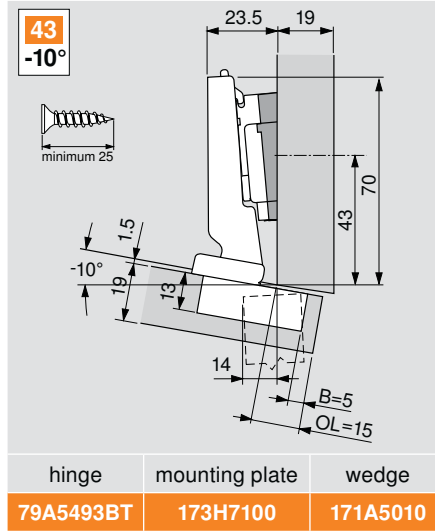
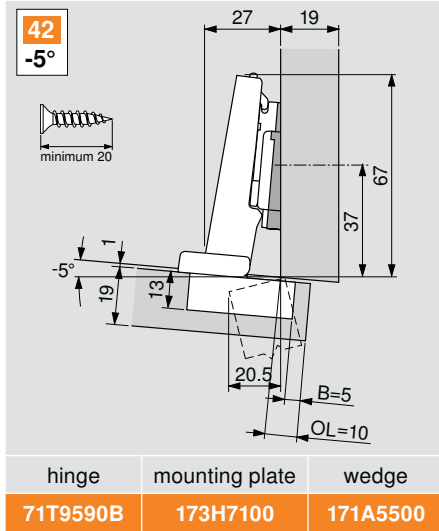
- Miter door 70°
- Miter side 55°
- Radius edges to fit
- Trial application recommended

hinge	mounting plate	wedge
79A9698BT	173H7100	-

# Maximum overlay specifications



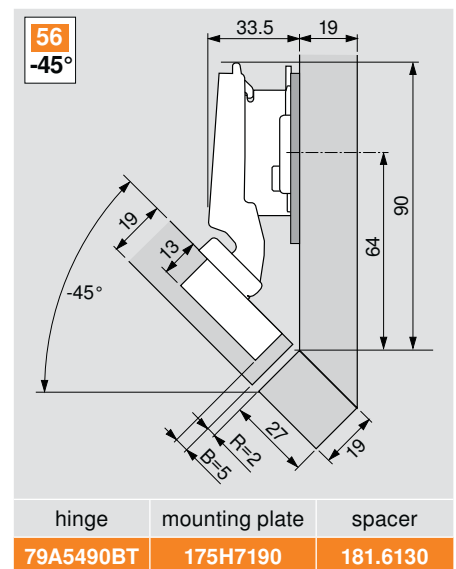
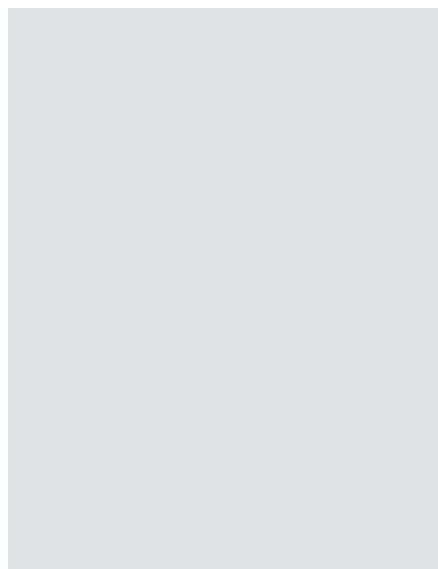
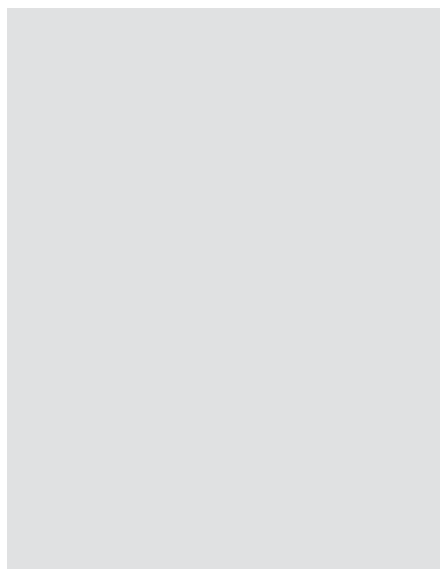
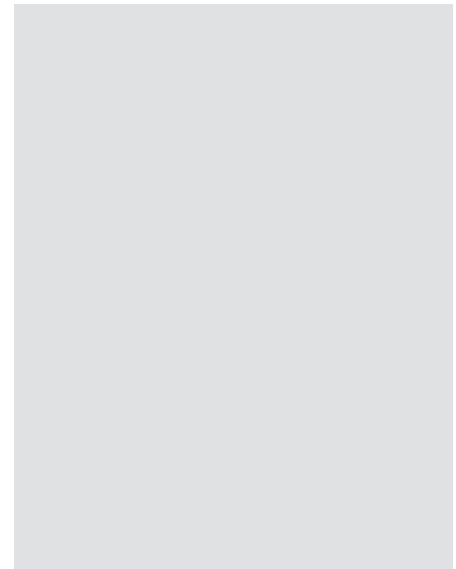
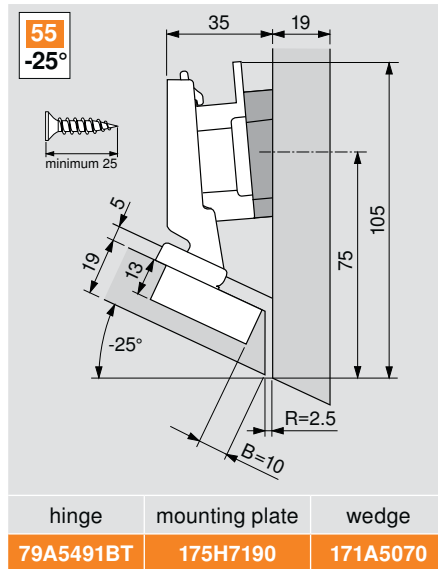
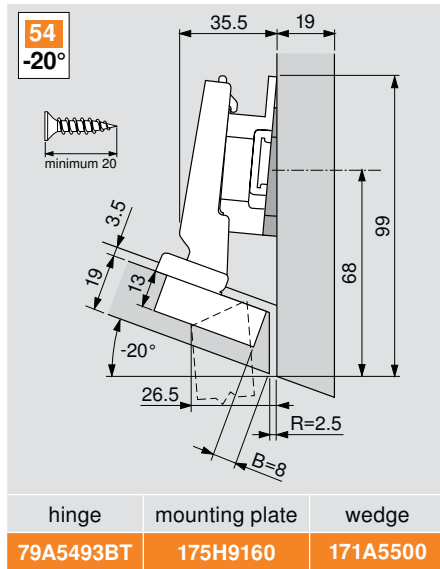
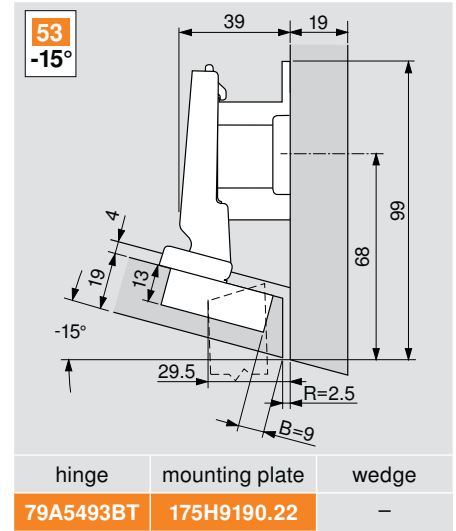
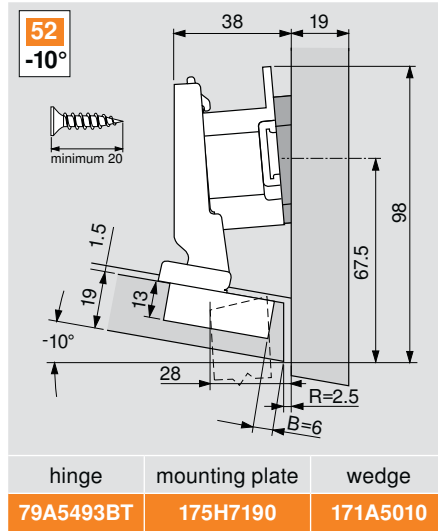
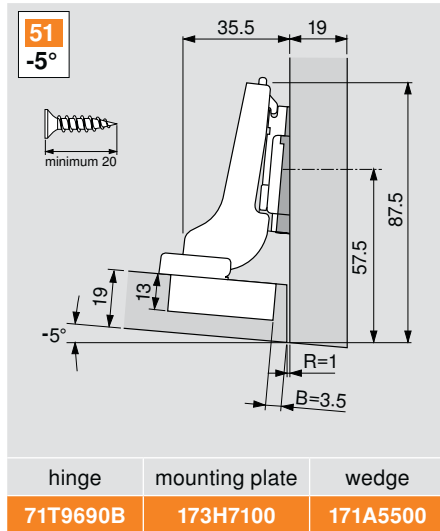
## Negative angle applications



# Inset door specifications



## Negative angle applications



Angled



# CLIP 100° hinges

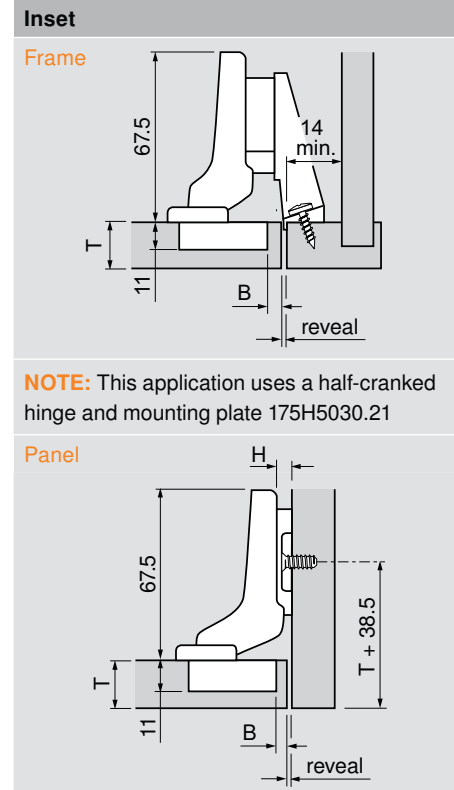
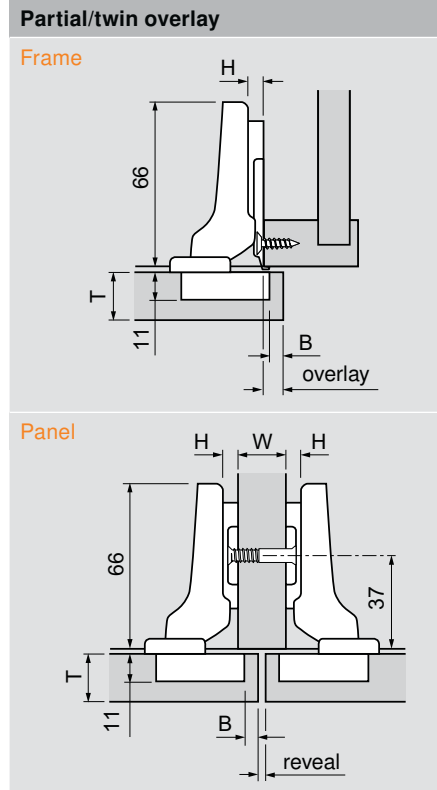
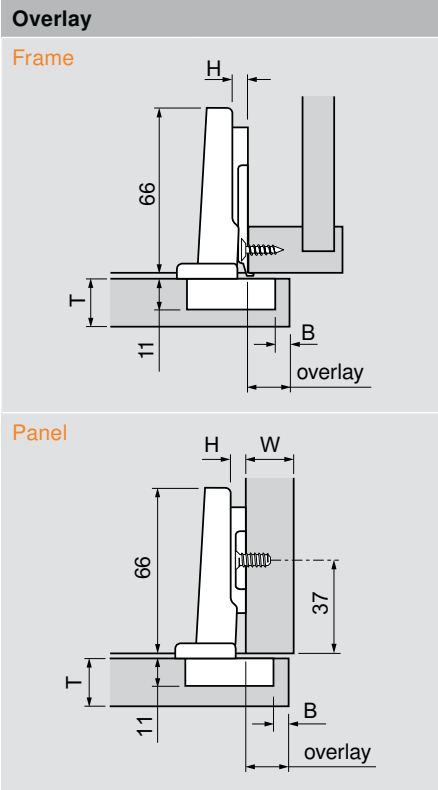


## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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 distance	16	18	19	20	22	24
	T = door thickness					

For thickness greater than 24 trial app. recommended



**NOTE:** This application uses a half-cranked hinge and mounting plate 175H5030.21

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	18.5	30
	10	8	6	4	19		
	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 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	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	

# CLIP 107° hinges

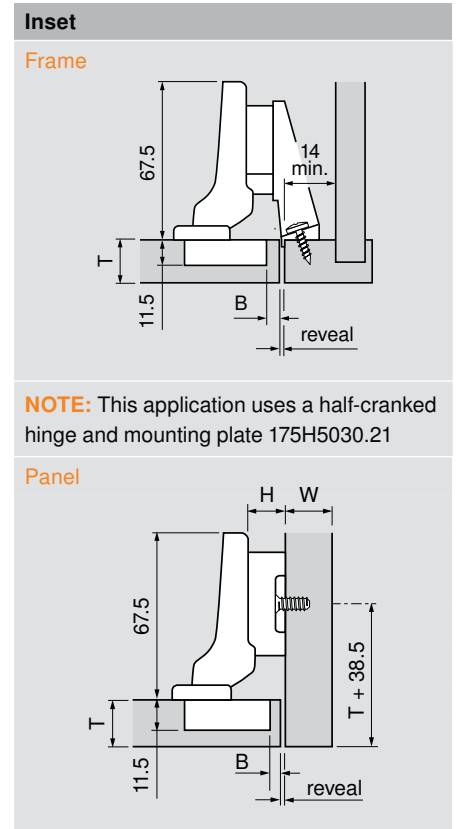
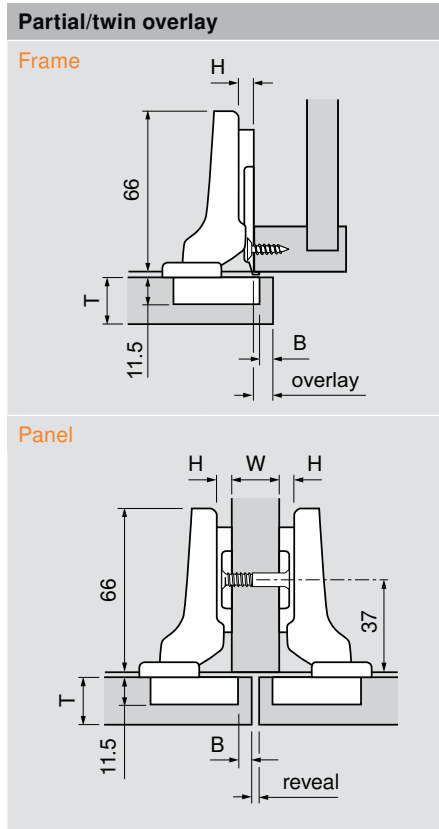
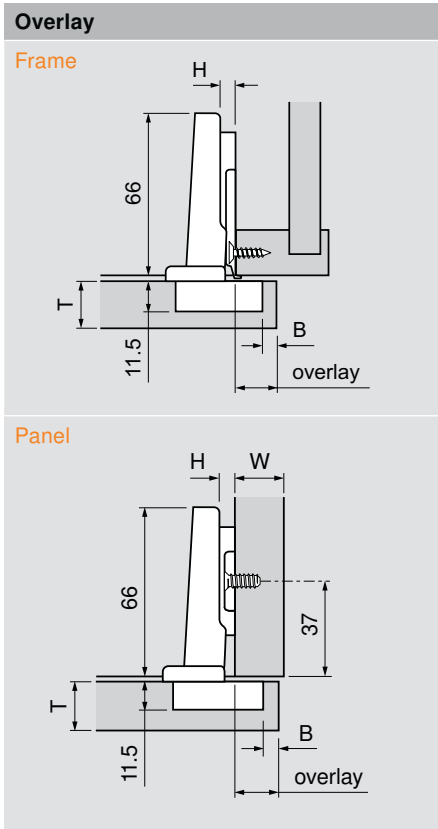


## Features

- Three-dimensional adjustment
- For door thicknesses up to **22** (7/8")
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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 distance	16	18	19	20	22
T = door thickness					

For thickness greater than 22 trial app. recommended



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

<b>Straight-arm</b>	<b>Self close</b>
Press-in	<b>75M1580</b>

<b>Half-cranked</b>	<b>Self close</b>
Press-in	<b>75M1680</b>

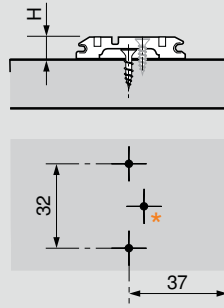
<b>Half-cranked</b>	<b>Self close</b>
Press-in	<b>75M1680</b>

# CLIP mounting plates



## Standard one-piece wing mounting plates

### Wood screw

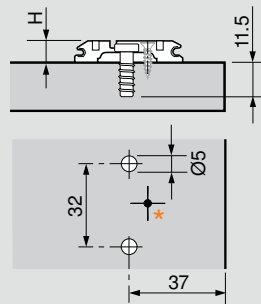


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H)	173L6100
3 plate height (H)	173L6130

### System screw

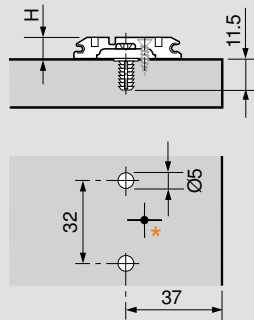


- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

Part no.

0 plate height (H)	173L8100
3 plate height (H)	173L8130

### EXPANDO

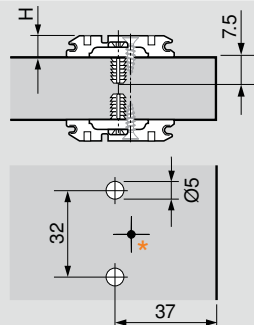


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	174E6100.01
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### EXPANDO (twin application)

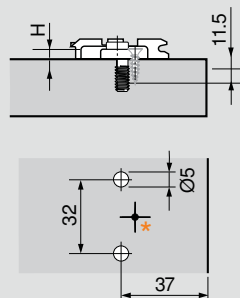


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	174E610Z
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### System screw



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

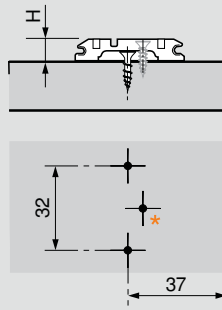
Part no.

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**

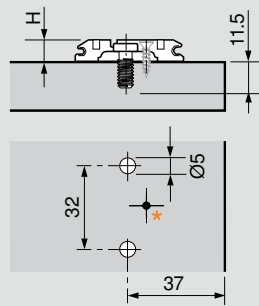


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ±2 mm

Part no.

0 plate height (H)	<b>173H7100</b>
3 plate height (H)	<b>173H7130</b>

**System screw**

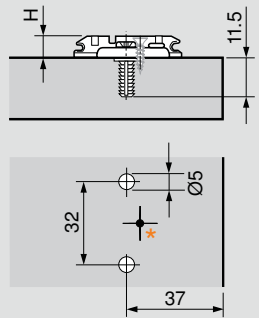


- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Cam height adjustment ±2 mm

Part no.

0 plate height (H)	<b>173H9100</b>
3 plate height (H)	<b>173H9130</b>

**EXPANDO**

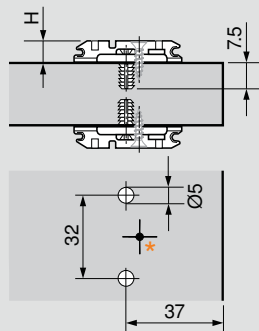


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ±2 mm

Part no.

0 plate height (H)	<b>174H7100E</b>
3 plate height (H)	<b>174H7130E</b>

**EXPANDO (twin application)**

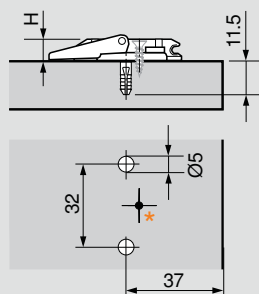


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment ±2 mm

Part no.

0 plate height (H)	<b>174H710ZE</b>
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**INSERTA**



- Steel (closing lever – zinc die-cast, nickel-plated)
- Tool-free assembly with INSERTA self-anchoring feature
- Cam height adjustment ±2 mm

Part no.

0 plate height (H)	<b>174H7100I</b>
3 plate height (H)	<b>174H7130I</b>

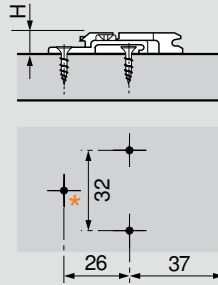
\*Add additional wood screw if used with wide angled hinges

# CLIP mounting plates



## Standard two-piece wing mounting plates

### Wood screw

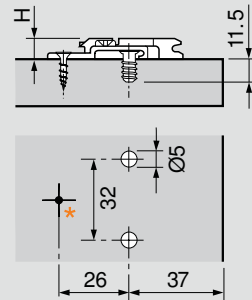
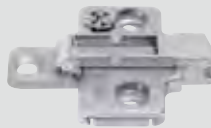


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 2$  mm

Part no.

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

### System screw



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

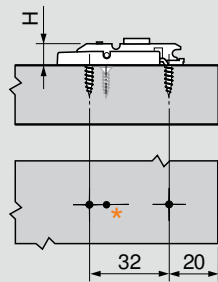
Part no.

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

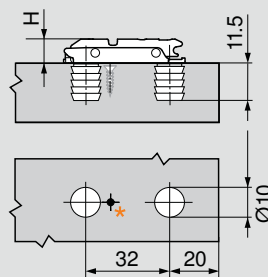


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment  $\pm 2$  mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	175H3100
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### Press-in

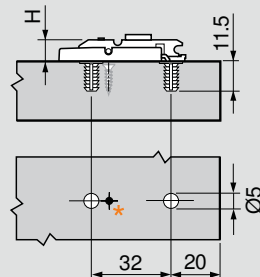


- Steel, nickel-plated
- Pre-attached with 10 mm dowels
- Cam height adjustment  $\pm 2$  mm
- **Use of insertion ram MZM.0053 required**

Part no.

0 plate height (H)	177H3100
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### EXPANDO



- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels
- Cam height adjustment  $\pm 2$  mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	177H3100E
3 plate height (H)	177H3130E

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

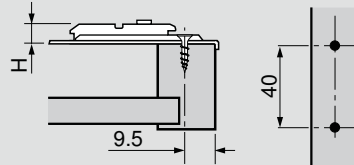
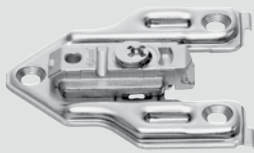
# Face frame adapter plates



CLIP plates

## Face frame adapter plates

### Cam adjustable center mount

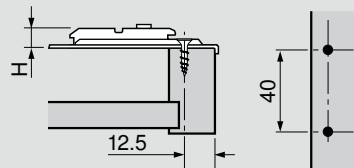
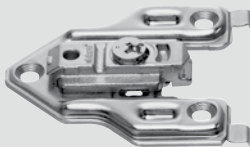


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Cam height adjustment  $\pm 2$  mm
- 175H6000 not for use with INSERTA hinges

Part no.

0 plate height (H)	175H6000
3 plate height (H)	175H6030
4.5 plate height (H)	175H6040
6 plate height (H)	175H6060

### Cam adjustable off-center mount

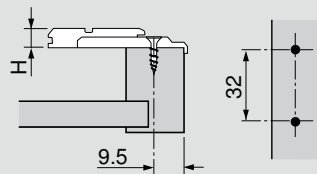


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount 12.5 (1/2")
- Cam height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	175H6600
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### Center mount

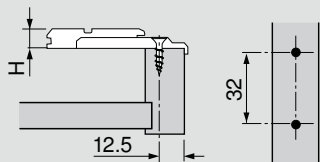


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Height adjustment  $\pm 2$  mm

Part no.

3 plate height (H)	175L6030.21
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### Off-center mount

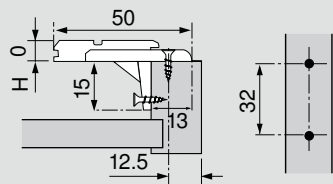


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount 12.5 (1/2")
- Height adjustment  $\pm 2$  mm

Part no.

0 plate height (H)	175L6600.22
3 plate height (H)	175L6630.22
6 plate height (H)	175L6660.22

### With flange



- Recommended when using 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

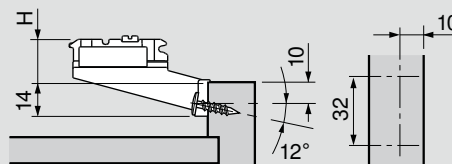
Part no.

0 plate height (H)	175L6600.24
--------------------	-------------

**NOTE:** Use of PLATEMATE recommended with all face frame adapter plates

## 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
- Wide angle hinges not recommended
- Use of PLATEMATE required for installation**

Part no.

9 plate height (H)	175H5030.21
--------------------	-------------







## 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 hinge that is right for your application.

Planning tools are easily accessible on our website at [blum.com/planning](http://blum.com/planning)



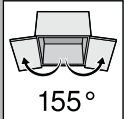
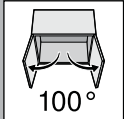
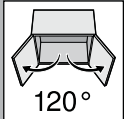
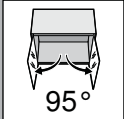
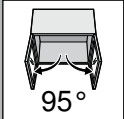
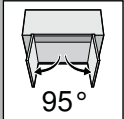
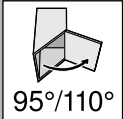
# BLUMOTION for doors overview for Euro hinges



Recommended  
BLUMOTION

		 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>
								
		<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>	<b>971Axxxx</b>
Partial/twin overlay								
		<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
			<b>973A0600</b>		<b>973A0600</b>		<b>973A6000</b>	<b>973A0600</b>
Inset								
		<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
			<b>973A0600</b>		<b>973A0600</b>		<b>973A6000</b>	<b>973A0600</b>
Inset			Full-cranked hinge, 0 plate					Full-cranked hinge, 0 plate
			<b>973A0700</b>					<b>973A0700</b>
								
		<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.

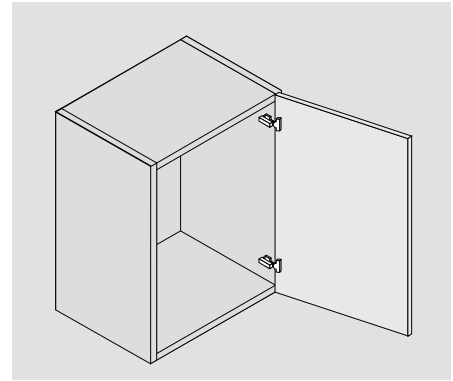
 155°	 100°	 120°	 95°	 95°	 95°	 95°/110°
Zero protrusion hinge	Standard hinge	Aluminum door hinge	Glass door hinge	Mini hinge	Blind corner hinge – overlay and inset	Angled hinges: +30 II, +45 I, +45 II
Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate				
<b>973A7000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

# BLUMOTION 973A for CLIP top and CLIP hinges

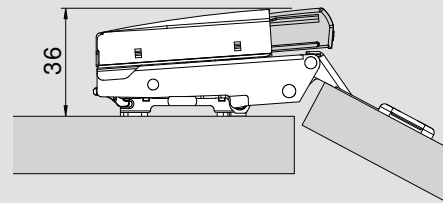


## Features

- 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



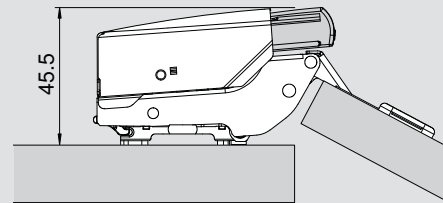
- CLIP top 107°
- CLIP top 110°
- CLIP top 110°+
- CLIP top 120°
- CLIP top 120°+
- CLIP top 95° thick door
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

Part no.

Straight-arm

**973A0500.01**

## For half-cranked arm hinges



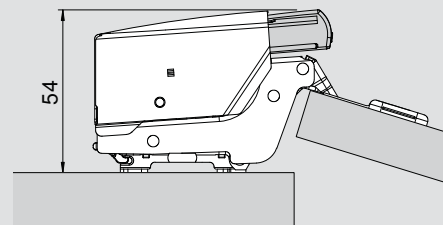
- CLIP top 110°
- CLIP top 120°
- CLIP top 95° thick door
- CLIP 100°
- CLIP 107°

Part no.

Half-cranked arm

**973A0600**

## For full-cranked arm hinges



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

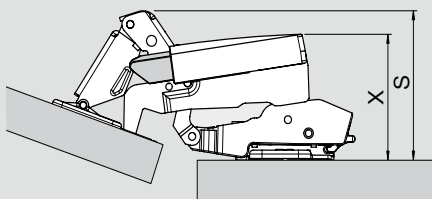
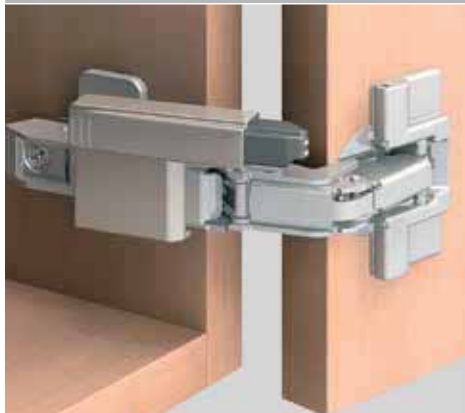
Part no.

Full-cranked arm

**973A0700**

## Specifications

### For 170° hinges



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

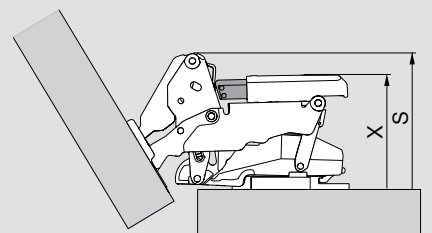
Hinge	X	S
CLIP top 170° straight-arm	49	65 max.
CLIP top 170° half-cranked	68	75 max.

Part no.

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

973A6000

### For 155° hinges



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

Hinge	X	S
CLIP top 155° straight-arm	53	62
CLIP top 155° half-cranked	63	72

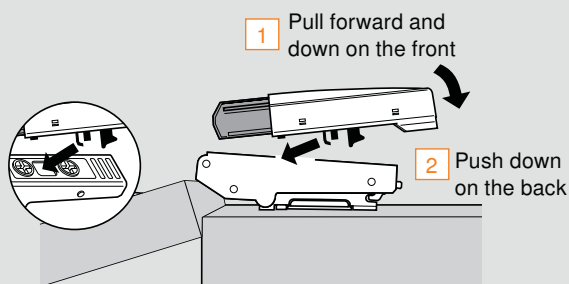
Part no.

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

973A7000

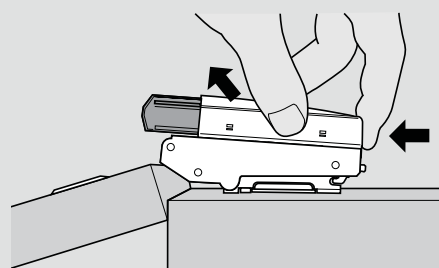
### Attachment

Attach to the square hole in the hinge arm



### Removal

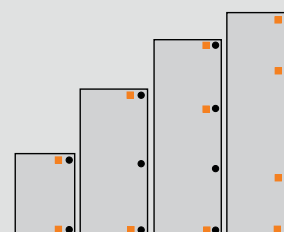
Pull forward and up simultaneously



### BLUMOTION per door

- BLUMOTION 973A is designed for one BLUMOTION per self-closing hinge, however, quantities 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

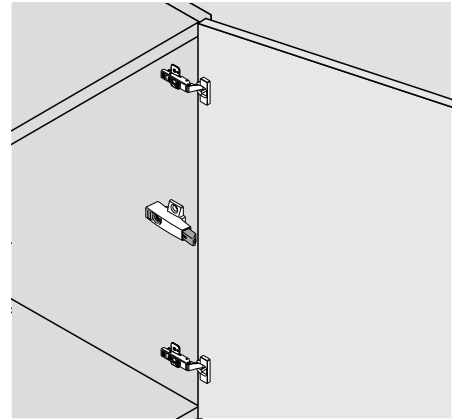
## Product



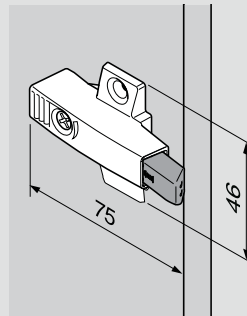
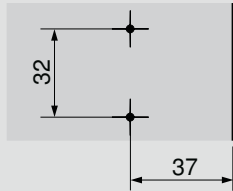
## Description

- 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)

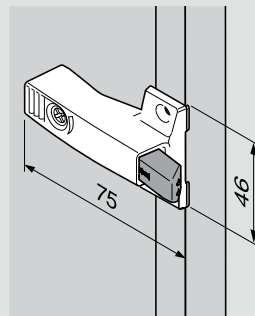
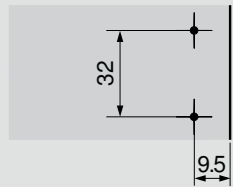


- 37 mm setback, 32 mm apart
- Attach with #6 x 5/8" wood screws

Part no.

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

## Face frame adapter plate (screw-on)



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

Part no.

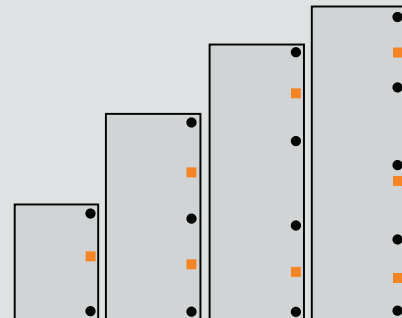
0 mm	<b>971A0700</b>
3 mm	<b>971A2700</b>
Installation screw	<b>606N or 606P</b>

## Specifications

### BLUMOTION per door

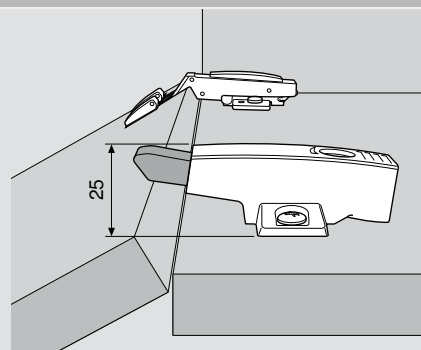
- For optimum BLUMOTION effect, BLUMOTION 971A should be installed onto the hinge-side panel centered between the two hinges
- Tall or heavy doors may require an additional BLUMOTION 971A between the hinges
- Trial application recommended

■ BLUMOTION 973A  
● Hinges



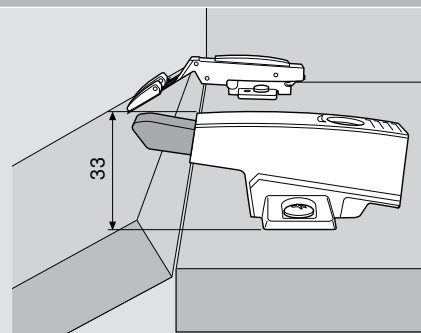
### 0 mm BLUMOTION application

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



### 3 mm BLUMOTION application

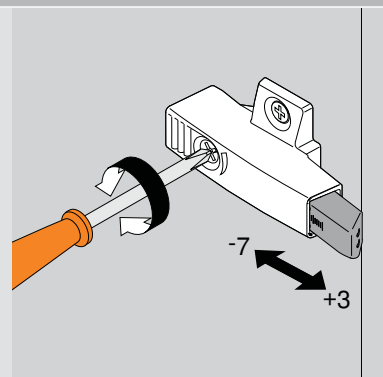
For all hinges with a straight-arm and a 3 mm mounting plate



**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

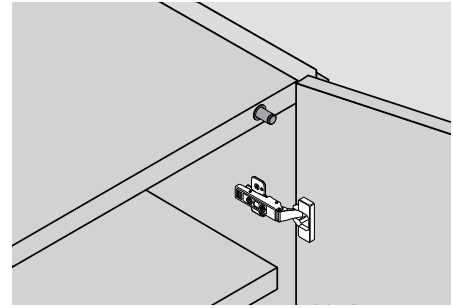
## Product



## 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.

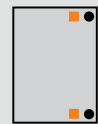
BLUMOTION 970A

970A1002

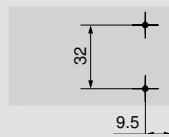
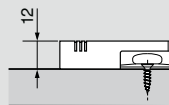
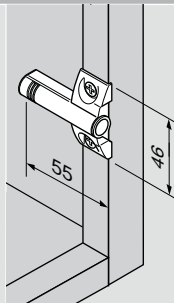
## BLUMOTION per door

- 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 973A
- 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.

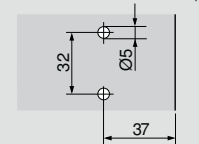
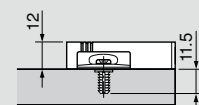
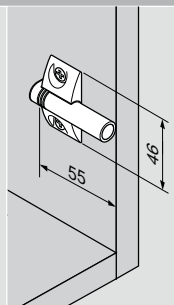
Screw-on

970.5701

Installation screw

606N or 606P

## 37/32 mm adapter (EXPANDO)



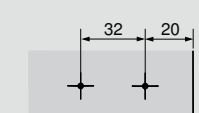
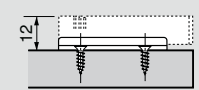
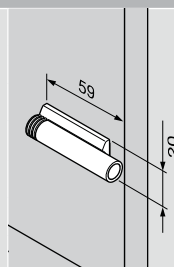
- 37 mm setback, 32 mm apart
- EXPANDO version installs with pre-attached screws
- Nickel-plated steel

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

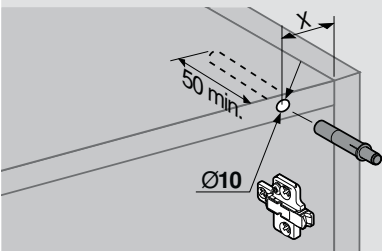
970.5201

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
<p>boring distance (X) in mm</p> <p>3 mm    35</p> <p>mounting plate height</p>	<p>boring distance (X) in mm</p> <p>35    48</p> <p>application, refer to pages 38 to 45</p> <p>35 20°</p>






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
	6 mm	38

Angled applications (reference angle applications page 38 to 45)

	 Max. overlay boring distance	 Partial overlay boring dist.	 Corner merge boring distance	 Inset boring distance	 Mitered corner boring distance					
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		





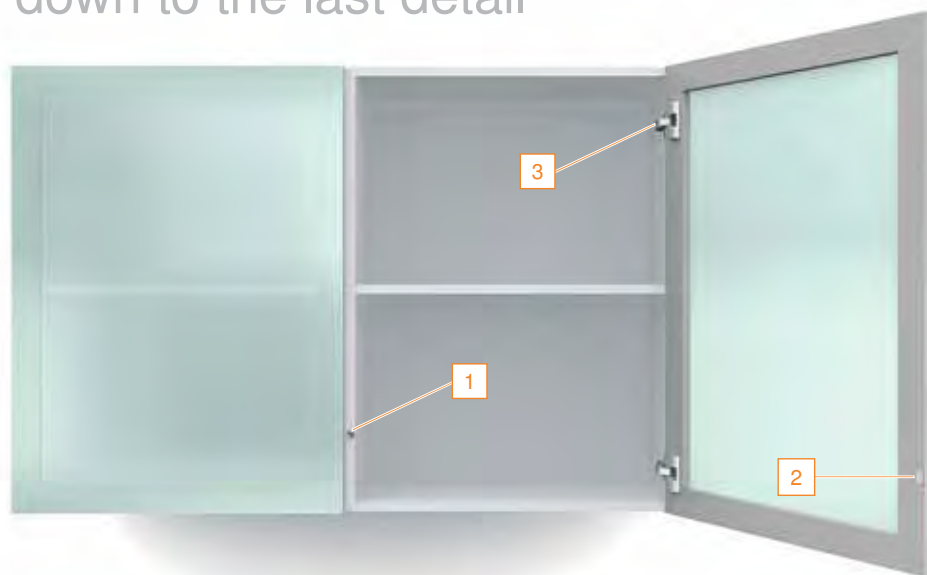
## Opening comfort for doors without handles

Doors can be opened easily with TIP-ON – a light touch is all that's needed.

- Designed for panel or face frame (blocked out) cabinet applications
- Works with CLIP, CLIP top and CLIP top BLUMOTION free swing and self close hinges
- Can be bored into the side panel or used with an adjustable adapter plate
- Easy depth adjustment when used with an adapter plate
- Works for both overlay and inset applications
- Quick and easy installation
- Increased design options
- Requires minimal force to open and close

# TIP-ON for doors program

High **quality**  
down to the last detail



**1** The TIP-ON unit can be either bored into the cabinet end panel or attached to the cabinet interior using adapter plates.



**2** The catch plate is the counterpart to TIP-ON. It is available in self-adhesive or screw-on versions.



**3** Free swing hinges are used with TIP-ON for doors with magnet/self close hinges are used with TIP-ON for doors with bumper.



The ideal location for the TIP-ON mechanism, as shown in this image, is no more than 12" up the side panel or no more than 1/4 of the door width from the edge. For taller doors, TIP-ON should be installed no more than 12" from the area normally pressed to open the door.

## Adjustments



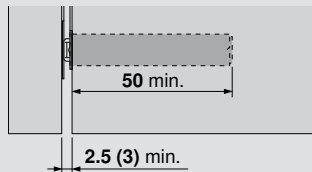
A minimum door gap of 2.5 mm should be planned when using the self-adhesive catch plate. The screw-on catch plate requires a minimum of 3 mm.

In-line or wing adapter plates can be adjusted using a spiral screw (+4.5/-1.5 mm range). The factory setting of the door gap is 2 mm.

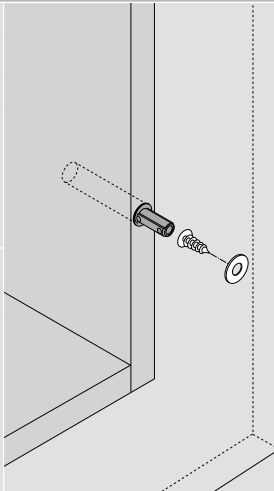
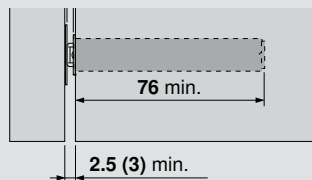
For adapter plate assembly (in-line or wing adapter plates), the door gap can be adjusted to a minimum of 1.5 mm.

### TIP-ON boring specifications

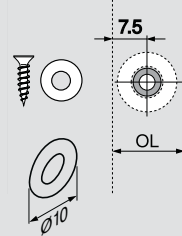
#### Standard TIP-ON set



#### Large TIP-ON set



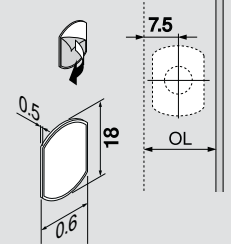
#### Catch plate (screw-on)



Pre-boring Ø2.5 mm countersunk pilot holes required

OL = Door overlay

#### Catch plate (self-adhesive)

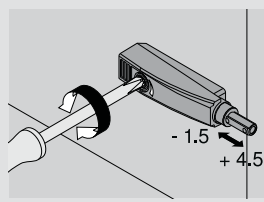
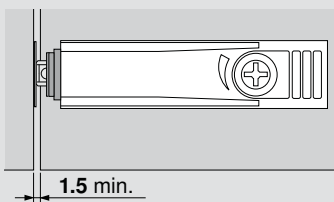


Cleaning of the door surface is recommended

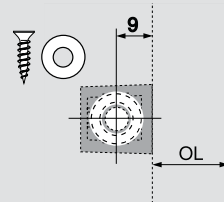
**NOTE:** Minimum gap of 2.5 mm with a self-adhesive catch plate or 3 mm with a screw-on catch plate

### TIP-ON in-line and wing adapter plate specifications

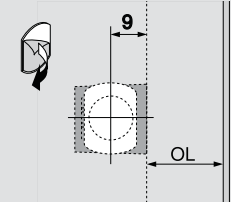
#### In-line adapter plate



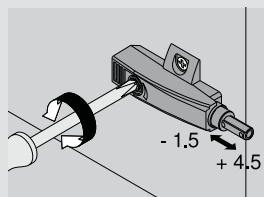
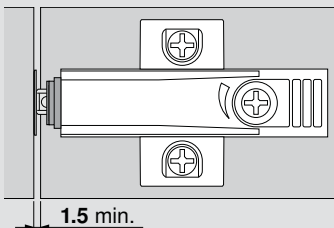
#### Catch plate (screw-on)



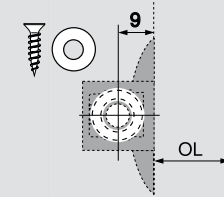
#### Catch plate (self-adhesive)



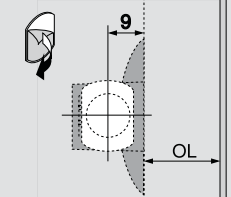
#### Wing adapter plate



#### Catch plate (screw-on)



#### Catch plate (self-adhesive)



**NOTE:** Factory setting of door gap is 2 mm

Pre-boring Ø2.5 mm countersunk pilot holes required

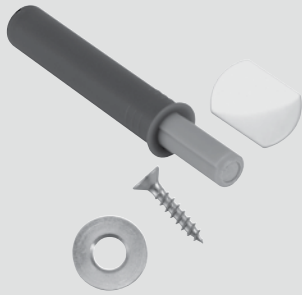
Cleaning of the door surface is recommended

OL = Door overlay

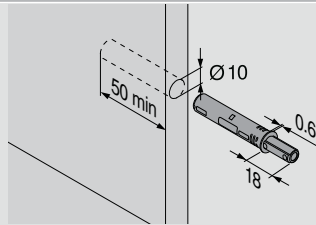
**NOTE:** Minimum gap of 2.5 mm with a self-adhesive catch plate or 3 mm with a screw-on catch plate

# Components

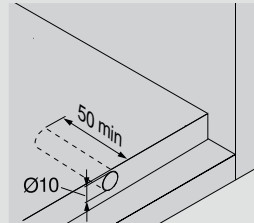
## TIP-ON set for standard doors



Overlay



Inset



- For use with Blum Euro free swing hinges
- For door heights less than 48"
- Nylon gray mechanism with magnet tip
- Works for both overlay and inset applications
- Can be bored into the panel or used with an adjustable adapter plate

Set includes:

- 955.1002 – TIP-ON mechanism
- 955.1008 – Self-adhesive catch plate
- Screw-on catch plate
- Wood screw

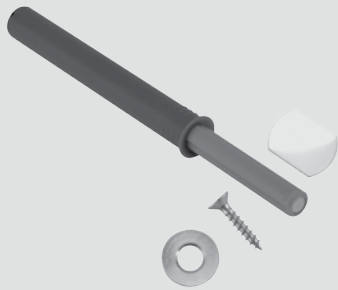
Part no.

**NOTE:** Due to various door weights and sizes, trial application recommended

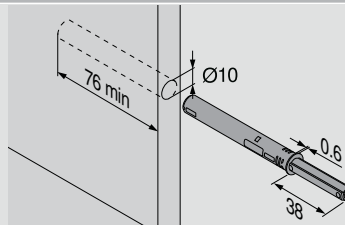
Standard door set

**955.1004**

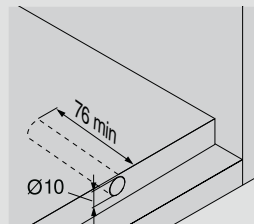
## TIP-ON set for large doors



Overlay



Inset



- For use with Blum Euro free swing hinges on larger doors
- For door heights greater than 48"
- Nylon gray mechanism with magnet tip
- Works for both overlay and inset applications
- Can be bored into the panel or used with an adjustable adapter plate

Set includes:

- 955.1002 – TIP-ON mechanism
- 955.1008 – Self-adhesive catch plate
- Screw-on catch plate
- Wood screw

Part no.

**NOTE:** Due to various door weights and sizes, trial application recommended

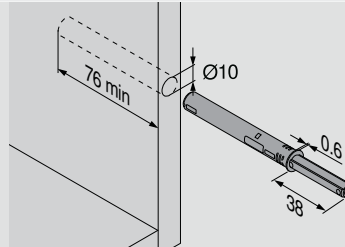
Large door set

**955A1004**

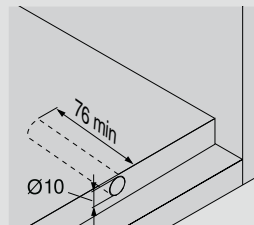
## TIP-ON for self closing hinges



Overlay



Inset



- For use with Blum Euro self close hinges
- For door widths greater than 10"
- Nylon gray mechanism with bumper tip
- Push out distance 38 mm
- Works for both overlay and inset applications
- Can be bored into the panel or used with an adjustable adapter plate
- New TIP-ON with bumper compatible with existing TIP-ON adapter plates
- Ideal location for TIP-ON mechanism is no more than 12" up the side panel or no more than 1/4 of the door width from the edge

Part no.

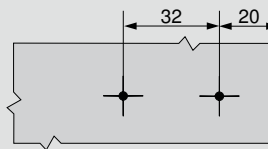
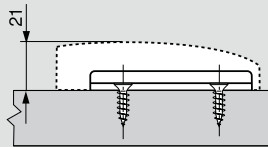
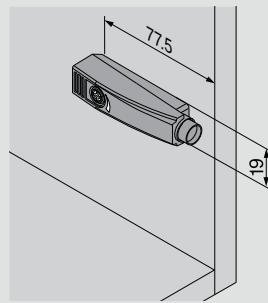
**NOTE:** Due to various door weights and sizes, trial application recommended

Self closing hinges

**955A1006.01**



**TIP-ON in-line adapter plate (screw-on)**



- Two-piece, nylon gray
- 20 mm setback, 32 mm apart
- Door gap factory setting 2 mm
- Adjustment range +4.5 mm to -1.5 mm

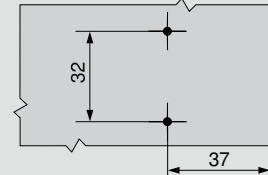
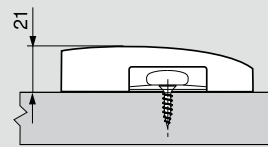
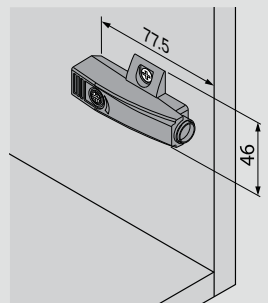
Application	Setback
Overlay	20
Inset	22 + door thickness

Part no.

Screw-on in-line adapter	955.1201
Installation screw	606N or 606P

**NOTE:** For face frame applications, blocking out may be required

**TIP-ON wing adapter plate (screw-on)**



- One-piece, nylon gray
- 37 mm setback, 32 mm apart
- Door gap factory setting 2 mm
- Adjustment range +4.5 mm to -1.5 mm

Application	Setback
Overlay	37
Inset	39 + door thickness

Part no.

Screw-on in-line adapter	955.1501
Installation screw	606N or 606P

**NOTE:** For face frame applications, blocking out may be required



# 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 are also available



## Hinge planning tools

Blum has downloadable Excel® spreadsheets that help determine the hinge that is right for your application.

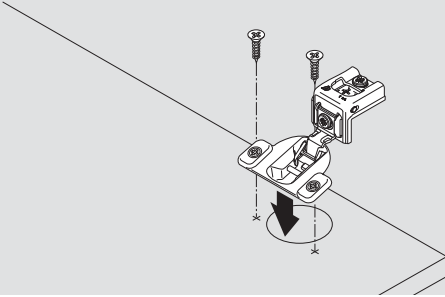
Planning tools are easily accessible on our website at [blum.com/planning](http://blum.com/planning)



# COMPACT general specifications

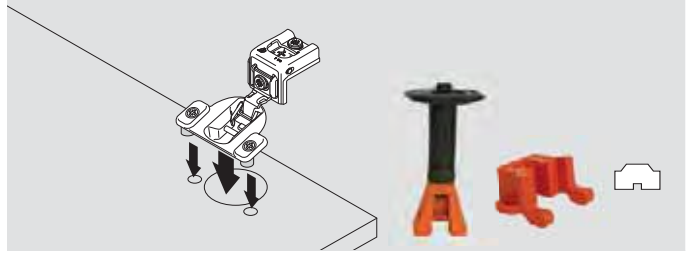
## Screw-on hinge attachment

Use #6 wood screws



## Press-in hinge attachment

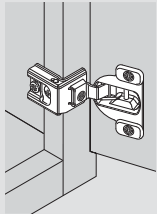
Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.



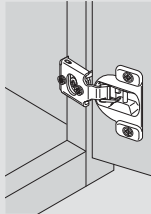
## Mounting plate attachment

### One-piece assembly

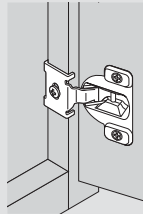
COMPACT 39C/38C  
wraparound



COMPACT 38N  
wrap or edge

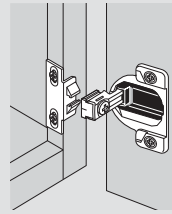


COMPACT 38.  
wrap or edge

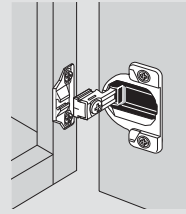


### Two-piece assembly

COMPACT 33  
edge mount

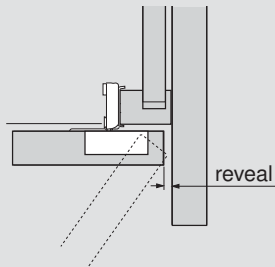


COMPACT 33  
face mount



## Minimum reveal

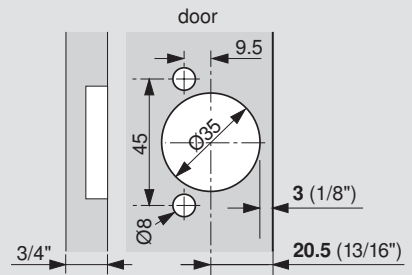
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see minimum reveal table for each hinge).



## Hinge cup centerpoint

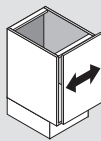
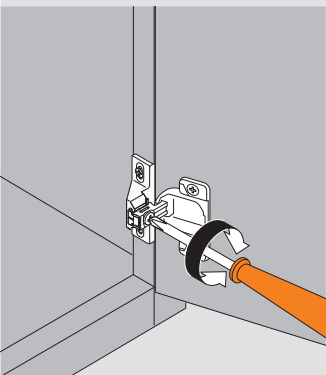
Cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT hinges.

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



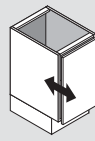
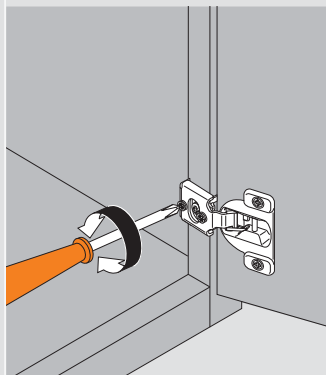
## Three-way independent adjustment

### Side adjustment



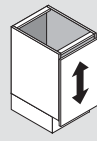
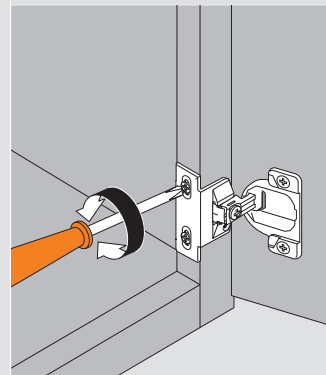
Side adjustment is possible on all COMPACT hinges except 38. series. COMPACT 39C, 38C and 38N have cam side adjustment.

### Depth adjustment



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

### Height adjustment



All COMPACT hinges are independently height adjustable.

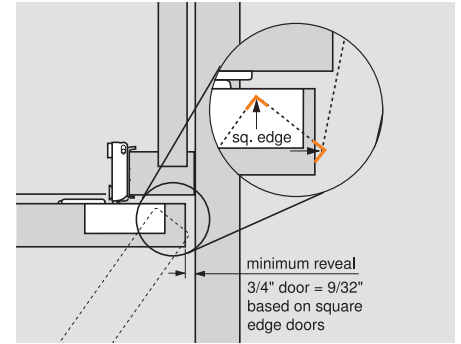
# COMPACT 38N hinges for partial overlay



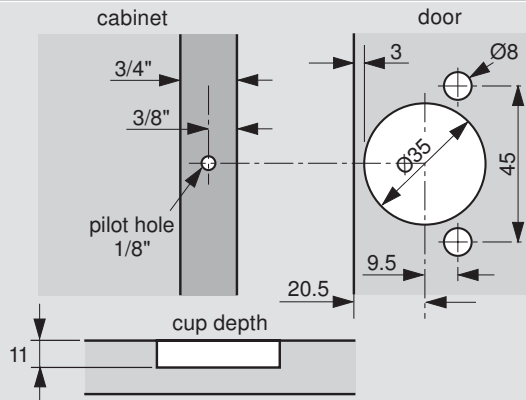
## Features

- 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
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700

## Minimum reveal

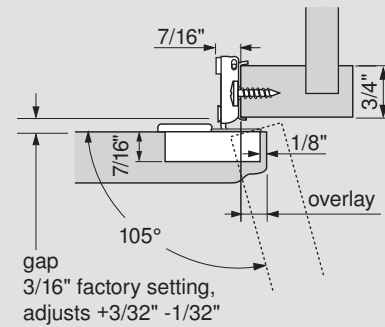


## Boring pattern

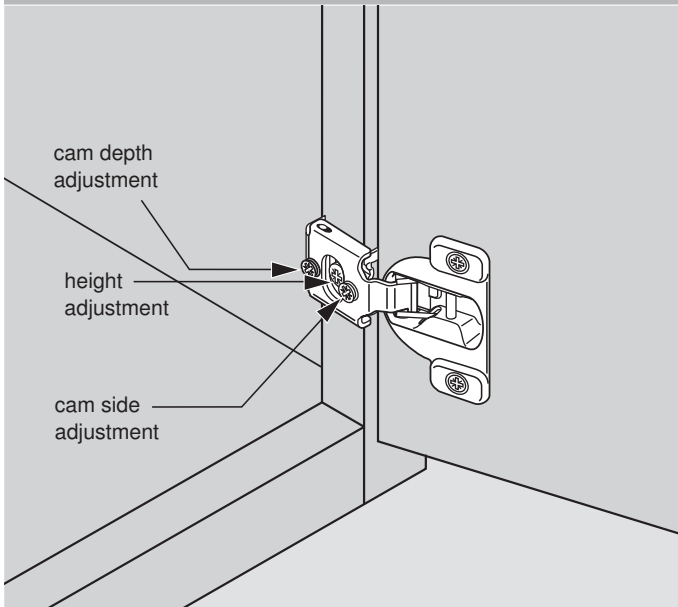


**NOTE:** Maximum door thickness 3/4"

## Dimensions



## Adjustment



## Calculating door protrusion

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

## 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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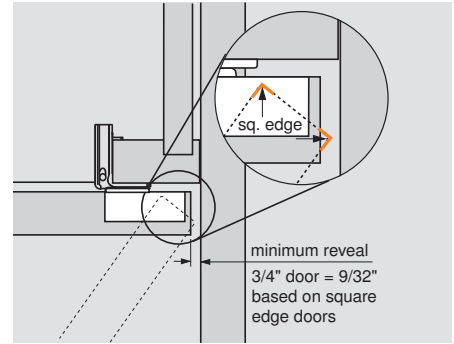
# COMPACT 38C hinges for full overlay



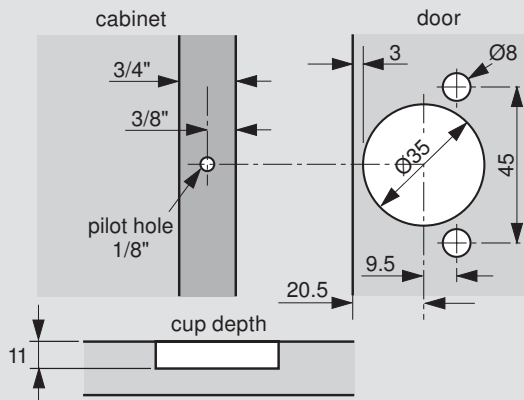
## Features

- 107° opening angle
- One piece assembly
- Wraparound mount
- 7/16" cup depth
- ±1/8" height adjustment
- ±1/16" side adjustment
- +3/32", -1/32" cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700

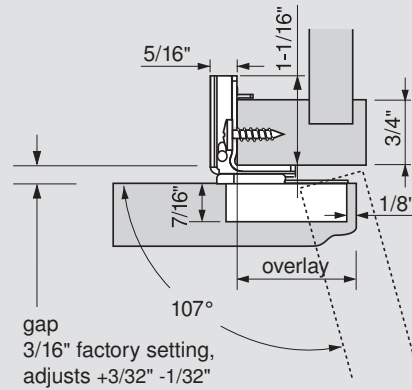
## Minimum reveal



## Boring pattern

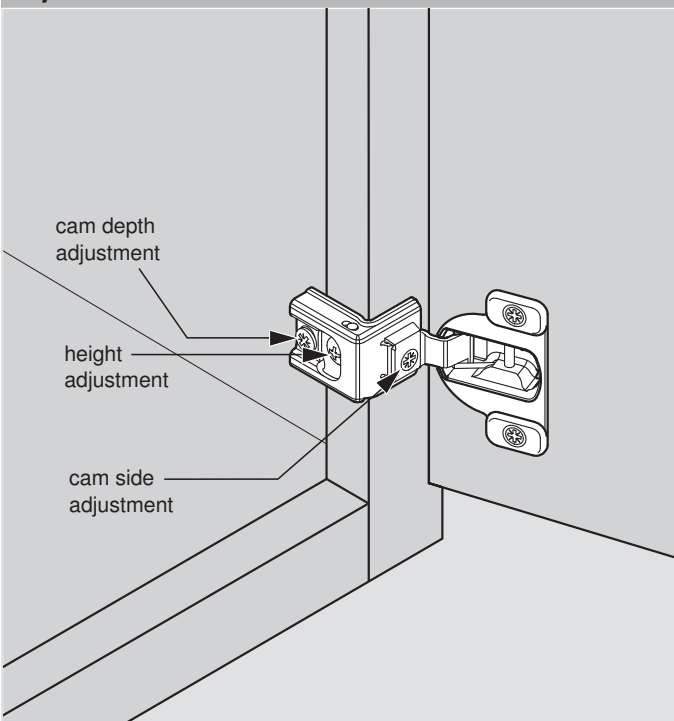


## Dimensions

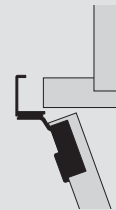



**NOTE:** Maximum door thickness 3/4"

## Adjustment



## Wraparound hinges



Overlay	Screw-on	 Press-in
1-1/4"	38C355C.20	38C358C.20
1-5/16"		38C358C.21
1-3/8"		38C358C.22
1-1/2"		38C358C.24
1-9/16"		38C358C.25

## Installation screw

Truss head installation screw

834TH

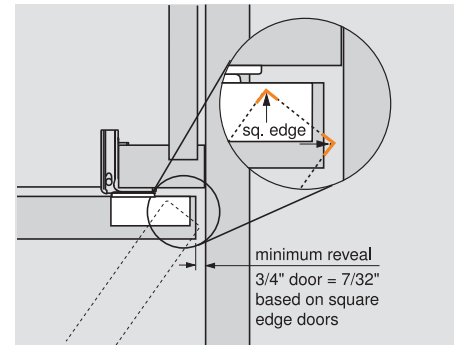
# COMPACT 39C hinges for full overlay



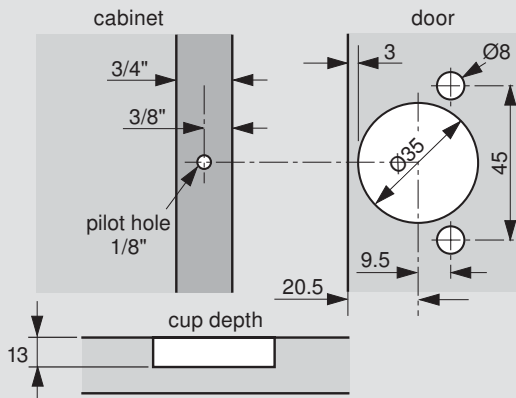
## Features

- 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
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700

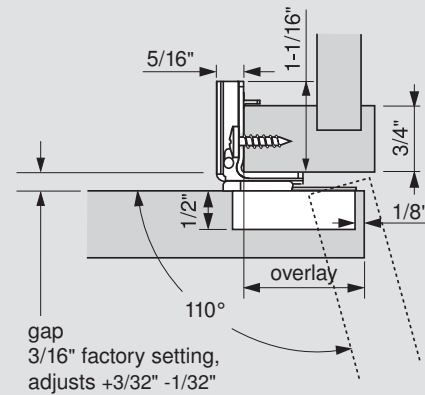
## Minimum reveal



## Boring pattern

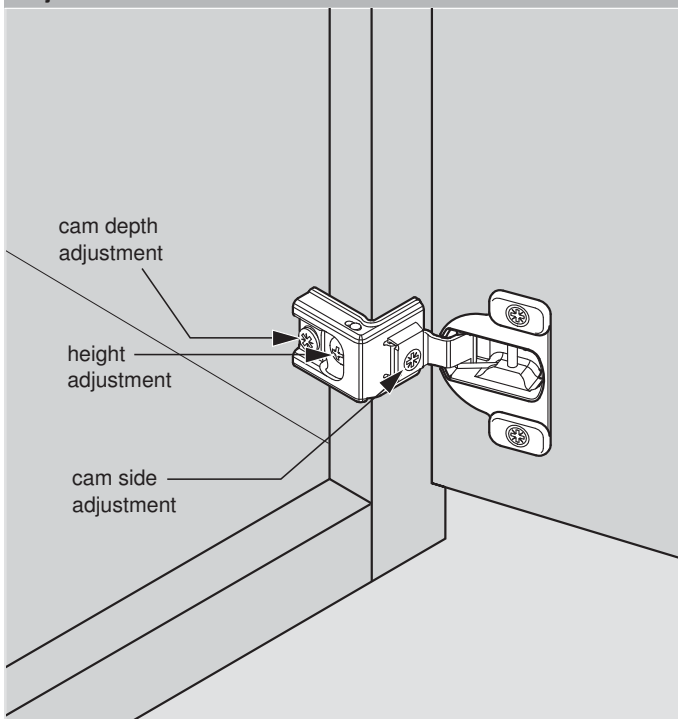


## Dimensions



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

## 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



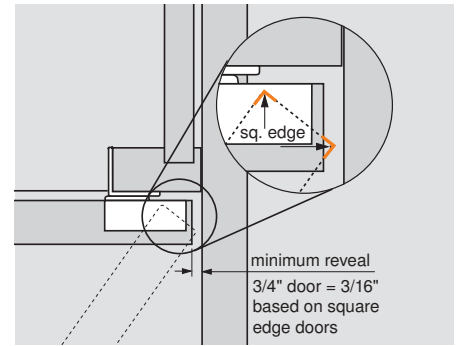
# COMPACT 33 hinges



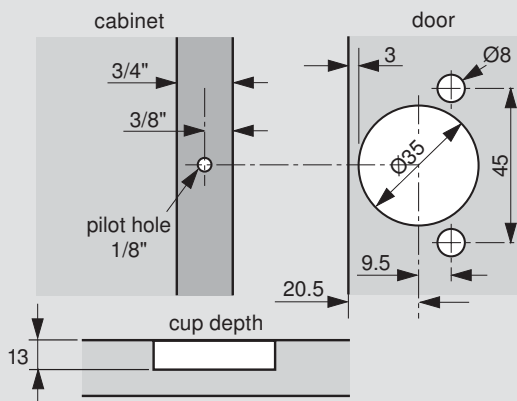
## Features

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

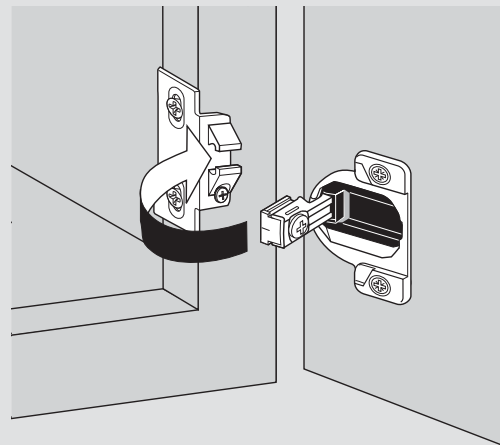
## Minimum reveal



## Boring pattern



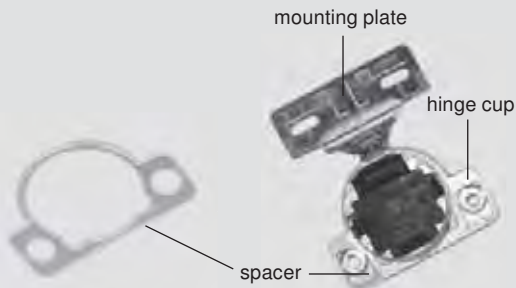
## Mounting



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

## 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



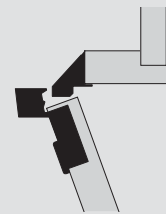
Part no.

COMPACT 33 spacer

58.0890.1198

## Attachment options

### Edge mount



### Face mount



Overlay

Screw-on

47

Press-in

33.3600

33.3630

## Installation screw

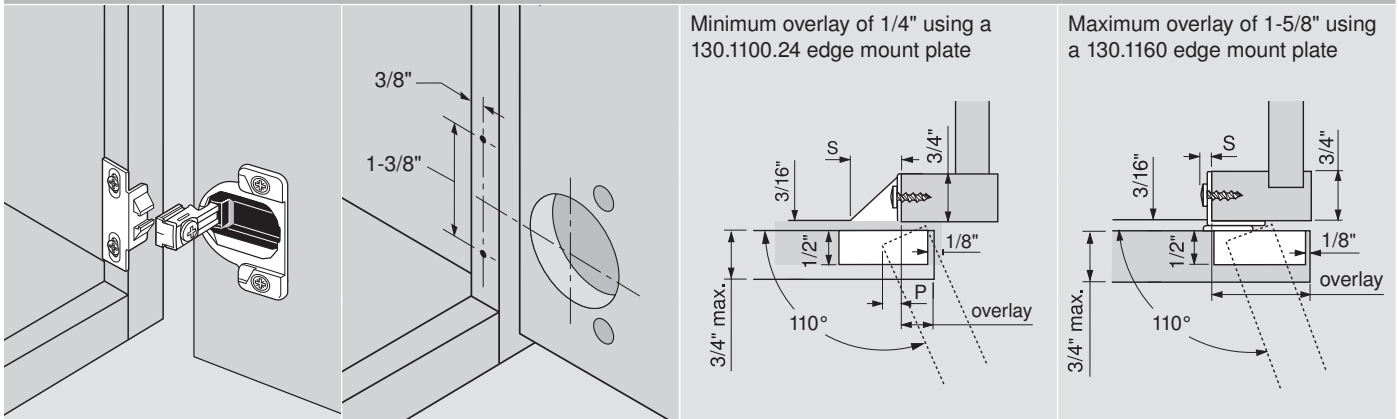
Wood screw

606N or 606P

# COMPACT 33 mounting plates



## Edge mount specifications



## Edge mount mounting plates



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

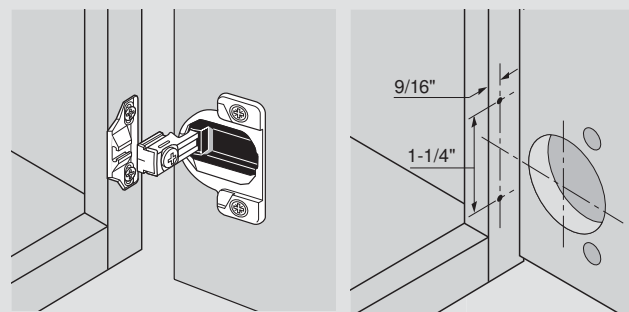
**NOTE:** An additional screw is required on mounting plates with 1-3/8" to 1-5/8" overlays to insure stability. Install after height adjustments have been made.

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

## 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	Part no.
Face mount mounting plate	133.0240

COMPACT

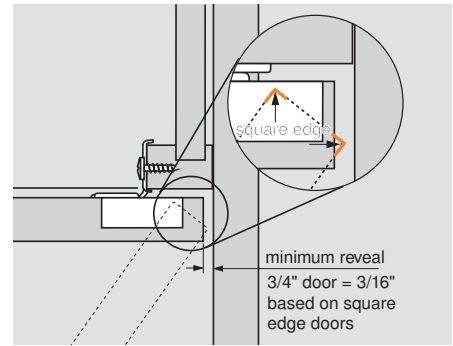
# COMPACT 38. hinges for partial overlay



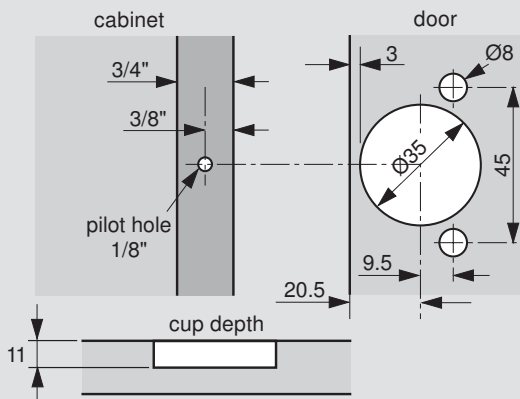
## Features

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

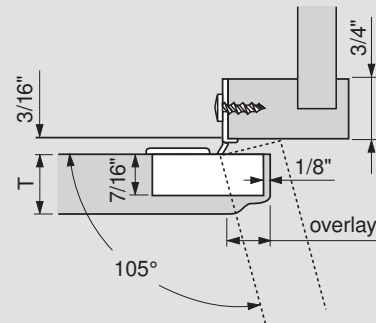
## Minimum reveal



## Boring pattern

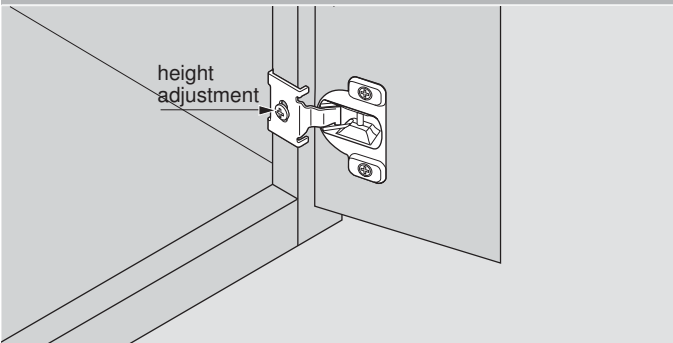


## Dimensions



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

## Adjustment



## Wraparound



## Overlay

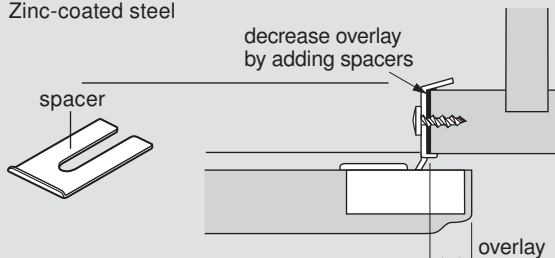
1/2"

## 47 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



Part no.

38. distance spacer

36.3515

## Installation screw

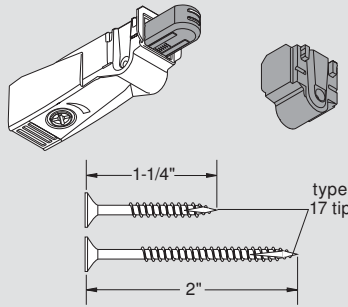
Truss head installation screw

834TH

# BLUMOTION 971A for COMPACT hinges

BLUMOTION  
inside

## 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

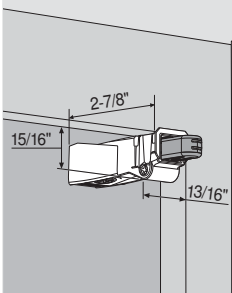
Part no.

Poly-bag set

**971A9700.22**

## Full overlay

Full overlay – 1" or greater overlay



Part no.

BLUMOTION

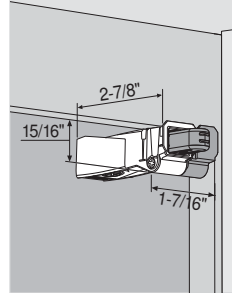
**971A9700**

Installation screw (1-1/4")

**8114Z**

## Partial overlay

Partial overlay – less than 1" overlay



Part no.

BLUMOTION

**971A9700**

Spacer

**971A9709**

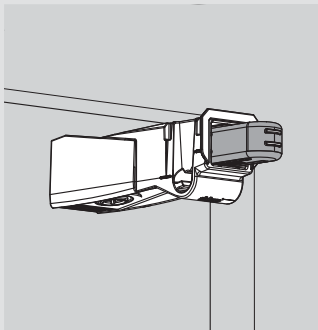
Installation screw (2")

**8200Z**

## Specifications

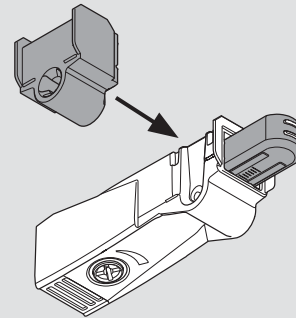
### Mounting

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



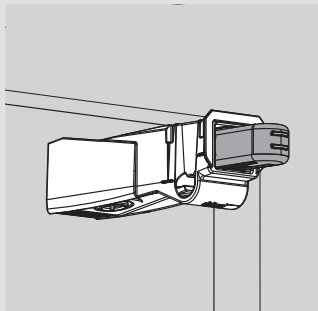
### Attachment of partial overlay spacer

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



### Adjustment

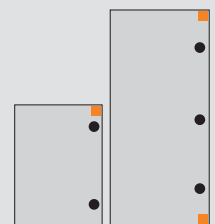
Use a Phillips or POZI screwdriver to adjust the contact point in or out (+5/-5 mm). Adjust out for larger, heavier doors or in for smaller, lighter doors.



### 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 973A
- Hinges



COMPACT

# Hinge accessories

## COMPACT cover caps

**COMPACT 38N cover cap**



- For use with COMPACT 38N hinges
- Clip on attachment/removal
- Available blank or with printed custom logo (minimums apply)
- Steel, nickel-plated

Part no.

38N cover cap	<b>70.7503</b>
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**COMPACT 38C/39C cover cap**



- For use with COMPACT 38C/39C hinges only
- Clip on attachment/removal
- Available blank/embossed blum logo or with printed custom logo (minimums apply)
- Steel, nickel-plated

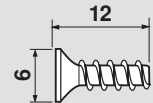
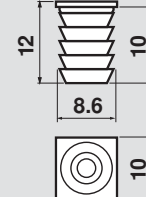
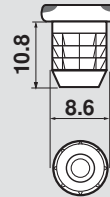
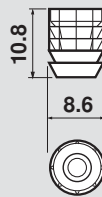
Part no.

Blank	<b>38C3508</b>
Embossed Blum logo	<b>38C3508.BP</b>

## Dowel cross-reference chart

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

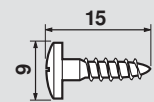
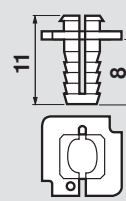
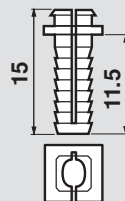
### Ø8 mm dowels



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

Dowels for Ø8 mm hole		70.0532	70T5582.01	34.3582.01	608.1200
type	series	without flange	square head without flange	with flange	installation screw
CLIP top and CLIP	100°/107°	✓			✓
	110°/110°+		✓		✓
	120°/120°+	✓			✓
	170°	✓			✓
	Thick door	✓			✓
	Zero protrusion	✓			✓
	Diagonal 45°	✓			✓
	Blind corner	✓			✓
COMPACT	Bi-fold	✓			✓
	33	✓			✓
	38C/39C	✓		✓	✓
	38N	✓		✓	✓
	38.	✓		✓	✓

### Ø5 mm dowels




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

Screws

**Deep thread wood screw**

- For attaching hinges and mounting plates

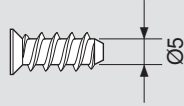


Part no.

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

**Deep thread system screw**

- Pilot bore Ø5 (3/16") hole

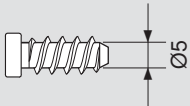


Part no.

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

**Pan head system screw**

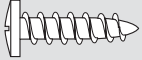
- Pilot bore Ø5 mm (3/16") hole
- Replacement screw for mounting plates with pre-mounted system screws



Part no.

#7 x 14.5 mm, #2 POZI	<b>668.1450.EH</b>
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**Type 17 truss head screw**

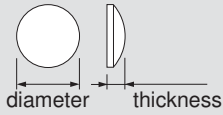


Part no.

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

**Bumpers**

- Clear in color
- Adhesive backing (diameter x thickness)




Part no.

7.5 x 2 mm bumper	<b>FX4041</b>
12 x 3.5 mm bumper	<b>SJ5312</b>

**Twin application screw**


- Pre-bored Ø5 (3/16") hole



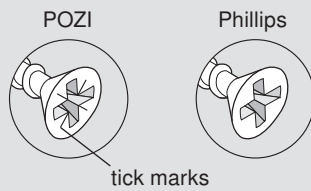
Part no.

14 (9/16") screw	<b>612.2010</b>
20 (25/32") sleeve	<b>612.2020</b>
24 (15/16") sleeve	<b>612.2420</b>

**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 POZI 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	<b>POZI DRIVER</b>
1/4" Magnetic bit holder	<b>BIT HOLDER</b>
#2 x 1" POZI bit insert	<b>POZI BIT #2X1</b>
#2 x 1" POZI bit insert	<b>POZI BIT #2X2</b>

# Assembly aids

## Knock-in tool



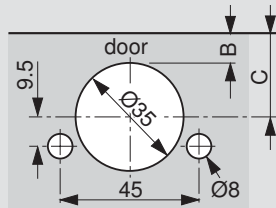
- Can be used to insert all Blum press-in hinges

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  $\varnothing 35$  mm bit

M31.ZB35.02

Replacement  $\varnothing 8$  mm bit

M31.ZB08.02

Tool set

MZW.1300

## ECOJIG



holes are:  
32mm apart,  
37mm setback



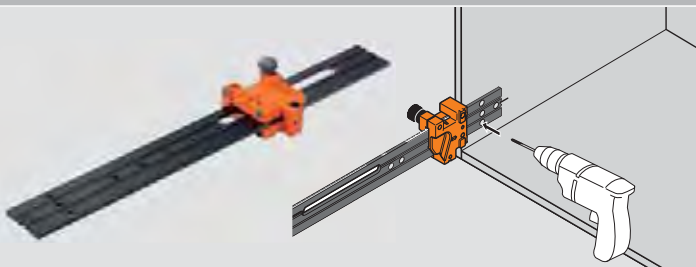
- Used to bore  $\varnothing 5$  mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore  $\varnothing 5$  mm holes for EXPANDO BLUMOTION adapters
- $\varnothing 5$  mm stop collar included

Part no.

ECOJIG

65.5070

## Universal individual template



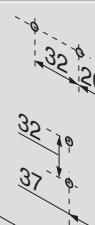
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

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 (20 mm setback)
- Simple location of mounting plate screw positions
- Pilot bore  $\varnothing 2.5$  mm holes for wood screws

Part no.

Mounting plate template

65.5300



**QUICKFIX**

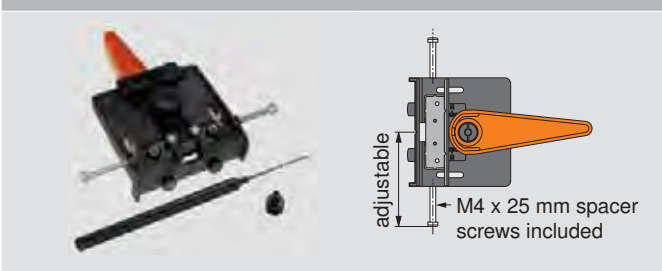


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line mounting plates

Part no.

QUICKFIX	65.7500.03
<b>Accessories</b>	
Additional CLIP template	65.7510.03
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
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**Dowelling fixture**



- Tool designed for attaching and removing dowels from hinges
- Mounts directly to work surface

Part no.

Dowelling fixture	69.3600
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**INSERTA boring template**

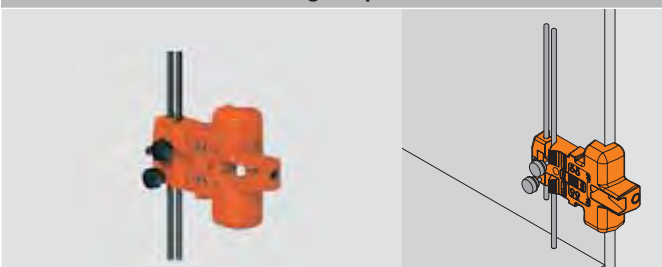


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

INSERTA boring template	65.059A
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**BLUMOTION for doors boring template**



- For pre-boring BLUMOTION adapters
- Ø10 mm drill bushing for panel edge boring
- 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



- 110V 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	MZK.190S
Chuck cover cap	M30.1329

**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 and TANDEMBOX 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

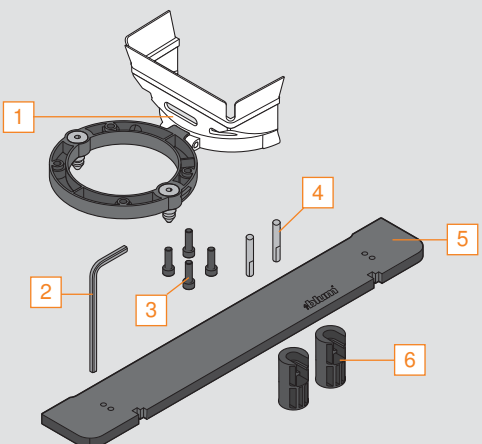
**Includes:**

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

Part no.

8 spindle head	MZK.880S
Chuck cover cap	M30.1329

**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:**

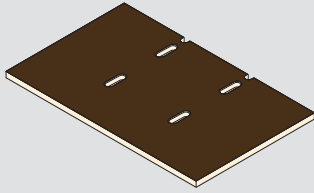
- Adapter ring and shield
- Ø5 mm allen wrench
- Mounting bolts (qty 4)
- Alignment pins (qty 2)
- Alignment template
- 13 mm fixed depth stop (qty 2)

Part no.

Spindle head retrofit set	M30.1313.UM
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# Assembly aids

## Work table for M51 machine

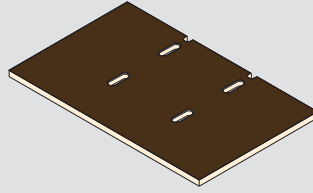


Part no.

Work table

**MZA.1000**

## Work table for M52 machine

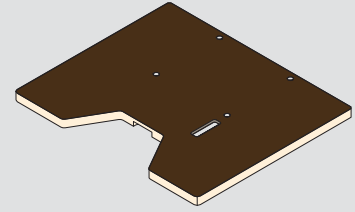


Part no.

Work table

**MZA.5200**

## Work table for M53 machine



Part no.

Work table

**MZA.5300**

## Center ruler



Part no.

Center ruler, 600 (2')

**M30.0212**

## Extension ruler



Part no.

Extension ruler, 1250 (4")

**MZL.1250.US**

## Extension ruler support



Part no.

Extension ruler support

**MZV.2100**

## Ruler stop

Left or right ruler stop



Part no.

Ruler stop

**MZS.3000**

## Small ruler stop

Left or right ruler stop



Part no.

Small ruler stop

**MZS.2000**

## Large ruler stop

Symmetrical ruler stop



Part no.

Large ruler stop

**MZS.1000**

## Fixed depth stop

13 (1/2") fixed depth stop for use with M51N machines (T-shaped)



Part no.

Fixed depth stop

**M30.1304.01**

## Fixed depth stop

13 (1/2") fixed depth stop for use with M53 machines



Part no.

Fixed depth stop

**M30.1304.02**

## Digital counter set



Part no.

Digital counter set

**MZE.2110**

## Hold down clamp set



Part no.

Hold down clamp set

**M53.0720.US**

## Laser center point set



Part no.

Laser center point set

**MZR.5300.US**

## Breakaway clutch

For use with MINIPRESS and MINIDRILL




Part no.

Breakaway clutch

**MZK.2009**

**Euro hinge insertion ram**

- Can be used for inserting CLIP top BLUMOTION, CLIP top, and CLIP press-in hinges
- Not for use with wide angled or specialty hinges




**NOTE:** Can be used with CLIP top BLUMOTION 95°, CLIP top 95° and CLIP 100° by adjusting ball plungers

Part no.  
#10 insertion ram **MZM.0010.01**

**Euro hinge insertion ram**

- Can be used for inserting Blum wide angle press-in hinges



Part no.  
#18 insertion ram **MZM.0018**

**Euro hinge insertion ram**

- Can be used for inserting CLIP top BLUMOTION, CLIP top, and CLIP press-in hinges



**NOTE:** Not for use with 170° and 155° wide angle hinges

Part no.  
#40 insertion ram **MZM.0040**

**COMPACT hinge insertion ram**

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



Part no.  
#47 insertion ram **MZM.0047**

**Mounting plate insertion Ram**

- MINIPRESS insertion ram for press-in, in-line mounting plate 177H3100






Part no.  
#53 insertion ram **MZM.0053**

**Machine drill bits**

				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 mm with center point <b>M01.ZB35.02 R</b>

**Twist drill bits – high speed steel**

			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-2 mm <b>DB-10 x 2mm</b>

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

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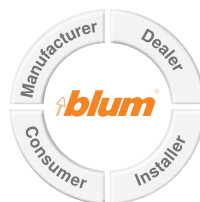
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Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casework industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional is available within the wide range of quality Blum products. Blum supports the U.S. market with a network of more than 150 dependable distributors, 40+ knowledgeable Blum sales representatives and an experienced customer service department.

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