



Concealed hinges

Premium hinge systems for cabinet doors

blum.com

 **blum**[®]

Simple planning and ordering

Blum offers many on-line tools to help you with your kitchen planning and ordering. Planning tools allow the selection of components based on your cabinet construction and size. Additional components can be selected as needed. Once complete, they provide an easy-to-follow order form.

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



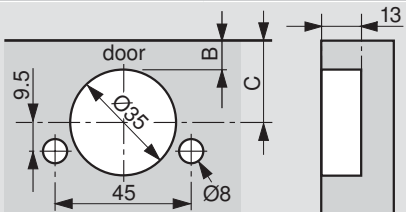
For more information on Concealed hinges please refer to our website at www.blum.com/us/en/01/#2

Or simply scan the quick reference code below



Quick reference

Hinge cup centerpoint

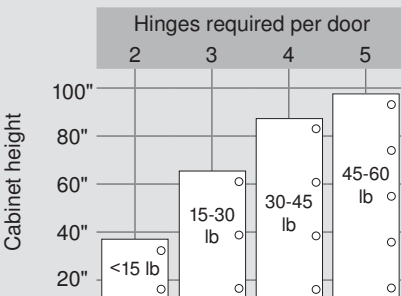


C = cup centerpoint

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 = Boring distance

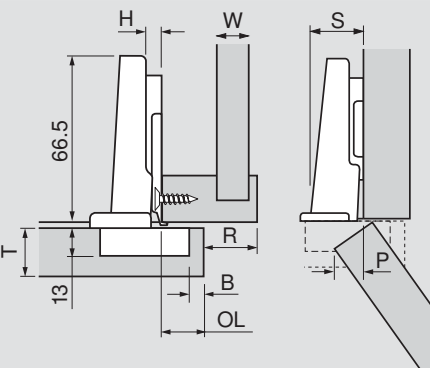
Hinges per door



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)

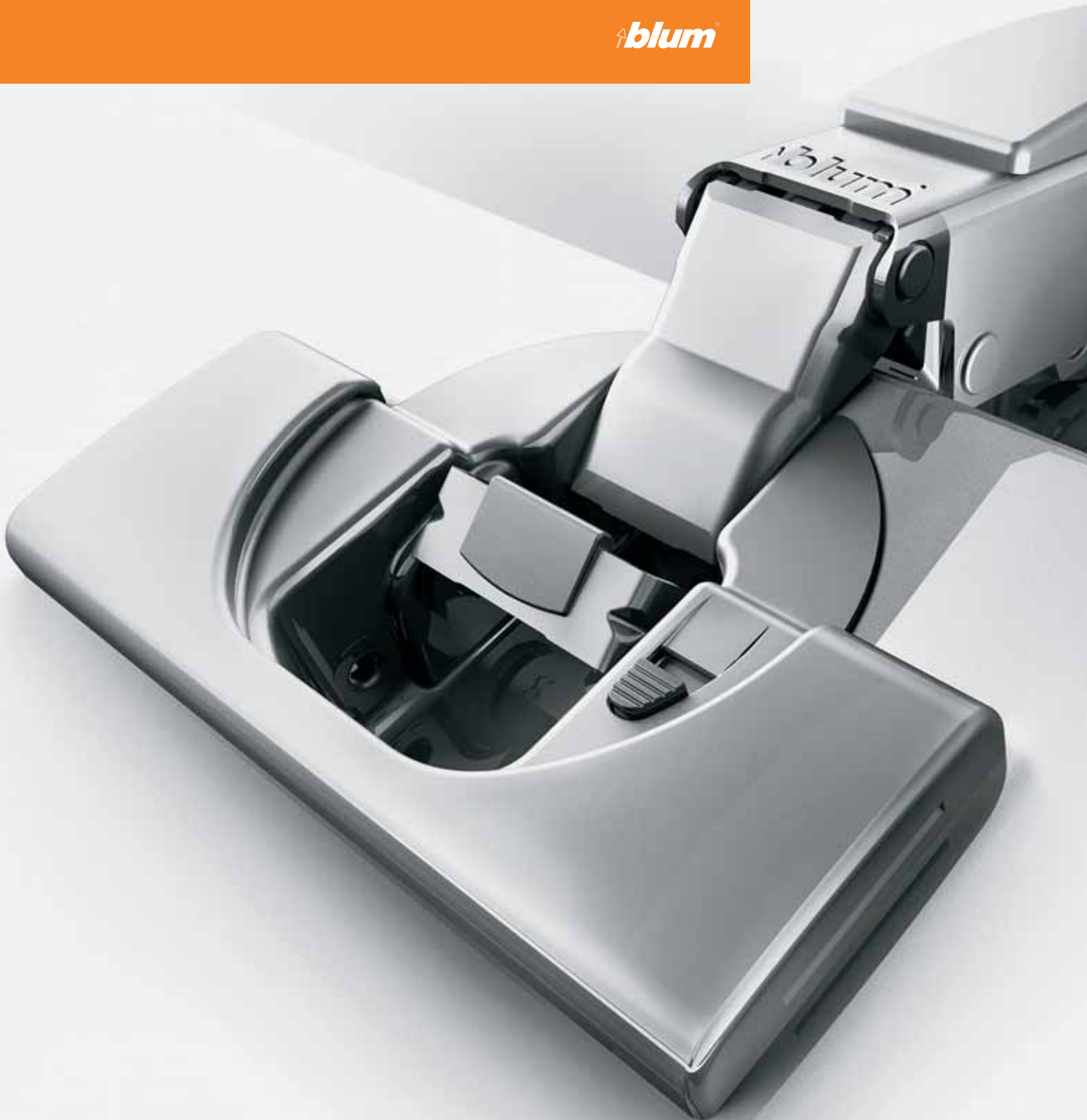
The distance that the cup overlays the cabinet side panel when a hinge is attached to a 0 mm mounting plate.
This is used to calculate hinge overlay with the formula **X + B minus H = OL**
(Fixed distance + boring distance minus plate height = overlay)

Elegant design, superior function

Silent and effortless, that's how cabinet doors close with Blum hinges – regardless of the weight or closing speed.

CLIP top BLUMOTION hinges have the soft close mechanism integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum.

 **blum**





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Product overview



CLIP top BLUMOTION

BLUMOTION is integrated in the hinge cup so additional assembly processes are no longer necessary after adjustment is complete.



CLIP top

Like other CLIP hinges, CLIP top enables easy three-dimensional adjustment with Blum's spiral tech depth adjustment.



CLIP

The tried and tested CLIP mechanism offers simple, tool-free hinge assembly. The industry standard for tool-free attachment since 1985.



Angled hinges

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 $+45^{\circ}$, in 5° increments.



CLIP accessories

Blum offers a wide range of accessories from spacers to restriction clips that support a variety of applications. A selection of customizable cover caps enables the customer to enhance and personalize each hinge.



CLIP mounting plates

CLIP top BLUMOTION works with all current CLIP mounting plates so you can start using this new hinge right away with little change to production.

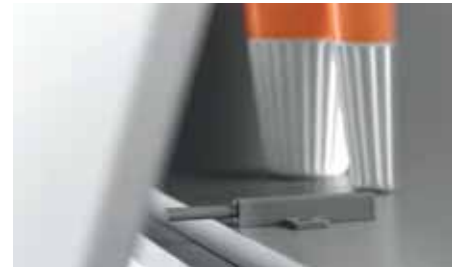
BLUMOTION for doors

BLUMOTION add-on upgrade option available for CLIP top, CLIP and COMPACT hinges. Easy to install and offers the same quality of motion as BLUMOTION hinges.



TIP-ON for doors

Designed for panel or face frame (blocked out) cabinet applications. Works with CLIP top BLUMOTION, CLIP top and CLIP free swing and self close hinges. Ideal for handleless cabinets, doors can be opened easily with TIP-ON – a light touch is all that's needed.



COMPACT BLUMOTION

COMPACT BLUMOTION hinges have the soft closing mechanism integrated directly in the hinge cup. They are available for most overlay face frame applications or door styles and are interchangeable with current COMPACT hinges so no need to change existing setups or workflows.



COMPACT & accessories

Blum's COMPACT hinges program has proven itself as the high quality solution for face frame cabinets for over 30 years and continue to provide the quality of motion you have come to expect from Blum hardware.



Assembly aids

Blum assembly aids support the assembly of all Blum products. They have proven to be the very best aids when it comes to day-to-day assembly. Their combination of high precision and practical benefits is valued both in workshops and directly on-site with the customer.



Machines and accessories

The wide range of drilling and insertion machines on offer from Blum ensures just the right solution no matter what the assembly requirement. Quick setup and easy operation ensure efficient assembly and a high-quality end result.


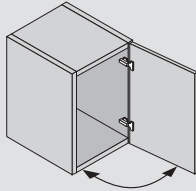
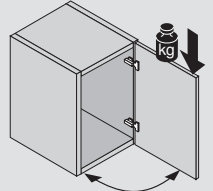



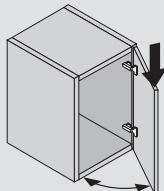
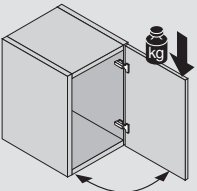
Conditions for tests


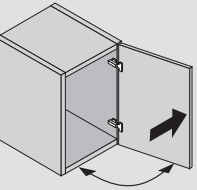
Blum, Inc. does a great deal of testing to ensure that the quality of our hardware is consistent with the usual high standards that our customers have come to expect from Blum. For this reason we have rigorous testing procedures which are carried out from the development stage through production. Blum's internal testing standards are based on practical applications of our products and are more stringent than what is required by ANSI/BHMA.

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

Cycle test	
Specifications	<ul style="list-style-type: none"> Door size – 23-5/8" height, 23-5/8" width, 3/4" thickness Door weight –14.3 lb for cycle tests Door weight – 18.5 lb for load and over push tests Boring distance – 5 mm
Distance between hinges	<ul style="list-style-type: none"> 16-15/16"
Hinge and mounting plate attachment	<ul style="list-style-type: none"> Hinges are mounted to test blocks and attached to test door and stand with clamps Test blocks for door: Particle board Test blocks for mounting plate: Particle board

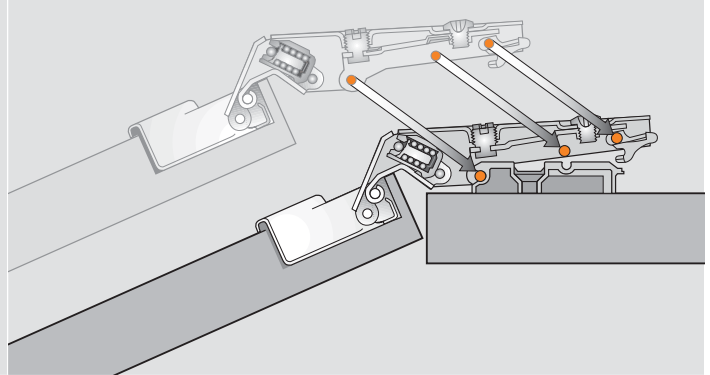
Cycle test			
	Without load <ul style="list-style-type: none"> 200,000 opening and closing cycles for all CLIP hinges 		With load <ul style="list-style-type: none"> 11 lb extra weight is applied for 100,000 opening and closing cycles
	Positive test result		

Load test			
	Static load <ul style="list-style-type: none"> 67 lb applied ten times for five seconds, each at 45° opening angle 		Dynamic load <ul style="list-style-type: none"> 44 lb extra weight applied for fifty opening and closing cycles
	Positive test result		

Over push test		
	Without load <ul style="list-style-type: none"> CLIP hinges – Increasing forces up to 11 lb applied for a total of five times for a total of five seconds each 	
	Positive test result	

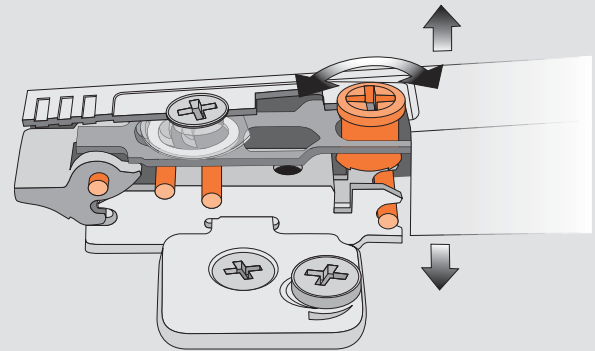
Blum three-point contact

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



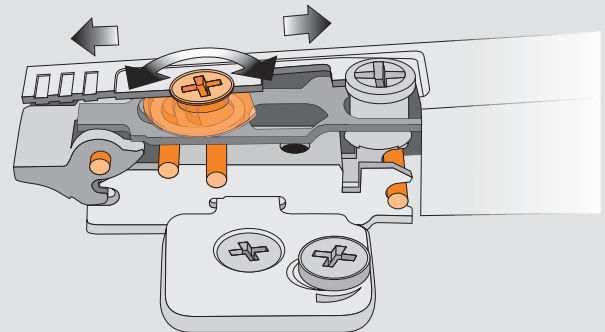
Side adjustment

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

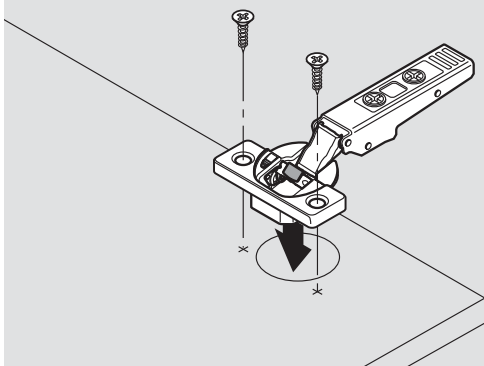
Blum has mounting plates for every application from wing plates with pre-attached screws or dowels and cam height adjustable face frame adapters, to sleek in-line mounting plates.



Hinge-to-door attachment

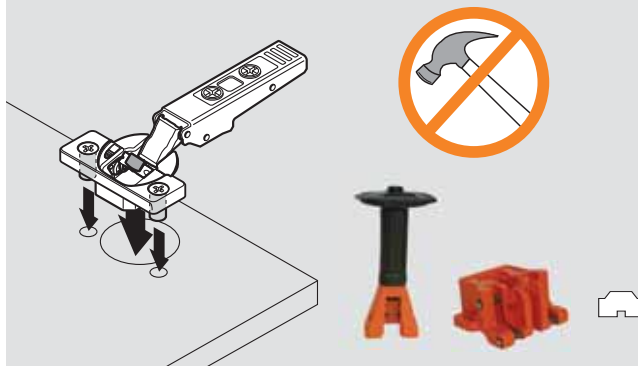
Screw-on

Use #6 wood screws



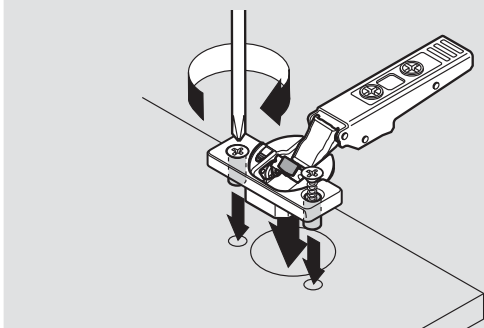
Press-in

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



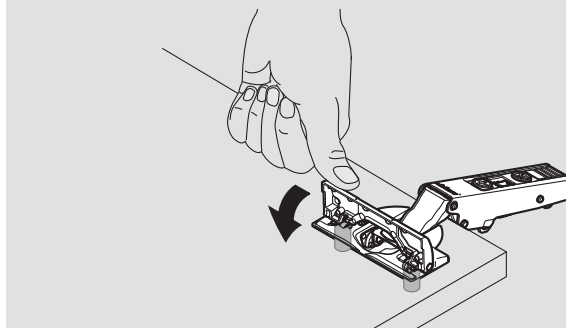
EXPANDO

Pre-attached expanding Ø8 mm dowels



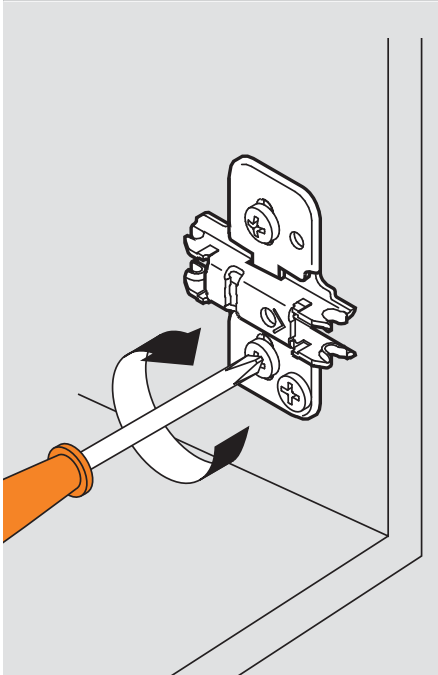
INSERTA

Tool-free attachment with INSERTA expanding Ø8 mm dowels



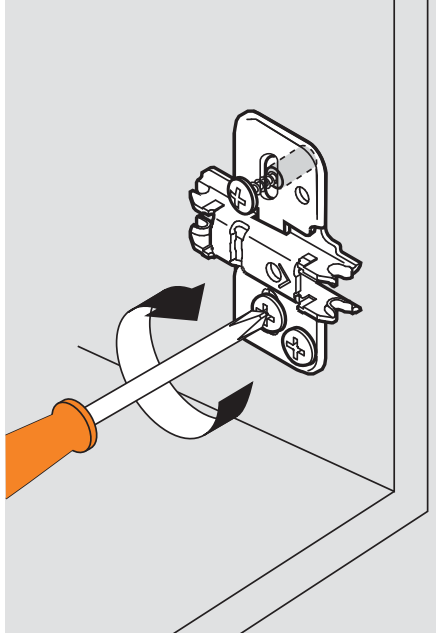
Mounting plate-to-cabinet

Screw-on



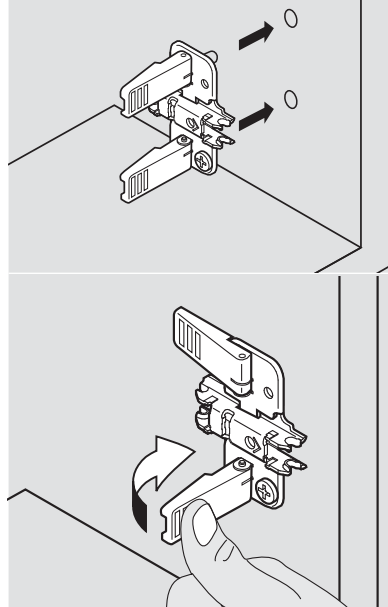
EXPANDO

Pre-attached expanding Ø5 mm dowels



INSERTA

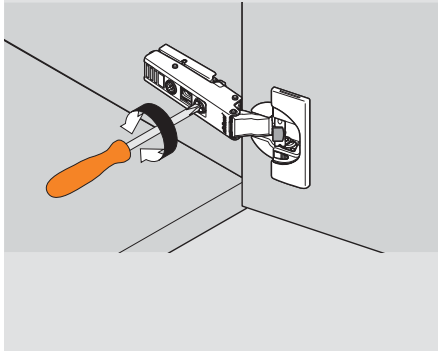
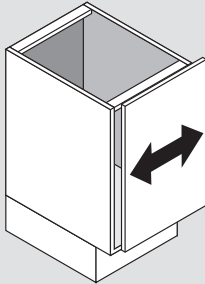
Tool-free attachment with INSERTA expanding Ø5 mm dowels



Three-dimensional adjustment

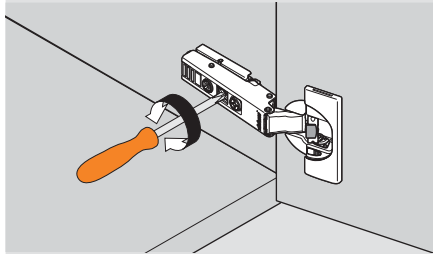
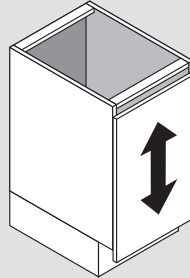
Side adjustment

Rotate front screw to increase or decrease door overlay (± 2 mm)



Height adjustment

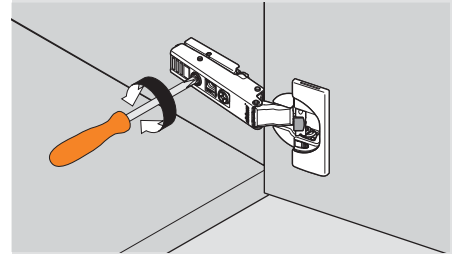
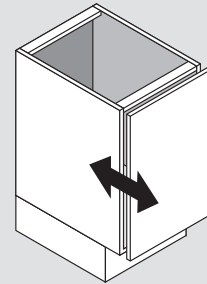
Rotate cam screw on mounting plate to adjust door position (± 2 mm). On non-cam mounting plates, loosen screws, adjust door and retighten screws.



NOTE: On non-cam mounting plates, loosen screws, adjust door and retighten screws

Depth adjustment

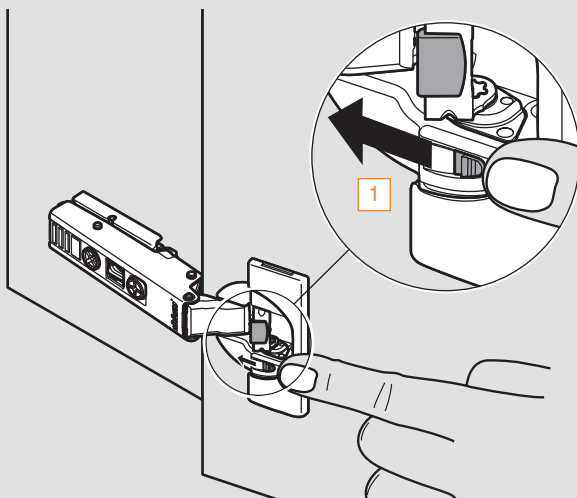
Rotate rear spiral tech cam screw to adjust door gap ($+3$ mm, -2 mm)



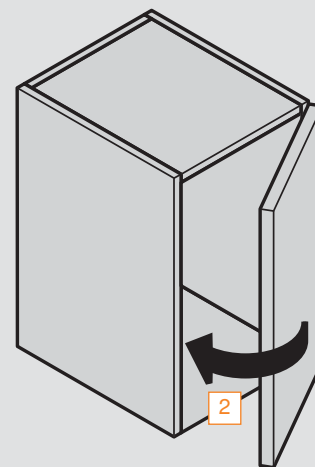
BLUMOTION deactivation

Deactivation switch on hinge cup

For small or light doors, the BLUMOTION can be deactivated on one of the hinges



Door must be closed once for the deactivation to be complete. To reactivate, move switch back to original position.



i

Temperature information

CLIP top BLUMOTION is designed to be used at temperatures between 65° and 85°F. Lower or higher temperatures will not cause damage to the hinge, however they will affect the closing speed. Once the temperature returns to the suggested range the hinge will return to its optimal closing action.

Hinges



Using the brochure

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.

Hinges

CLIP top BLUMOTION 110° hinges

Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 26 (1")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

	3	4	5	6	7
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
T = door thickness
Thickness greater than 26 - trial app. recommended

Overlay

Frame

Partial/twin overlay

Frame

Inset

Frame

Panel

Panel

Panel

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

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
fixed distance = 11

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
0	7 8 9 10 11	16	21.5	31
3	4 5 6 7	22		

B = boring distance

Abbreviations

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

Straight-arm	Self close	Half-ported	Self close	Full-ported	Self close
Screw-on	71B3590	Screw-on	71B3590	Screw-on	71B3790
Press-in	71B3590	Press-in	71B3590	Press-in	71B3790
EXPANDO	71B3590	EXPANDO	71B3590	EXPANDO	71B3790
INSERTA	71B3590	INSERTA	71B3590	INSERTA	71B3790

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 = 6
fixed 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.

	3	4	5	6	7
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
T = door thickness

CLIP top BLUMOTION hinges	Page
110°	11
110°+	12
95° thick door	13
110° diagonal 45°	14
95° inset blind corner	15
95° overlay blind corner	16
95° narrow aluminum	17

CLIP top hinges	Page
107°	18
110°	19
110°+	20
120°	21
120°+	22
95° thick door	23
170°	24
170° special applications	25
155° zero protrusion	26
155° special applications	27
125° zero protrusion	29
125° special applications	30
95° inset blind corner	31
95° overlay blind corner	32
120° aluminum for BLUMOTION	33
120° aluminum	34
110° diagonal 45°	35
95° mini	36
95° glass door	37
60° bi-fold	38

CLIP hinges	Page
107°	39
100°	40

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Hinges



CLIP top BLUMOTION 110°



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 26 (1")
- Overload safety feature
- 86° angle restriction clip available (70T3553)
- Compatible with existing CLIP mounting plates and hinge arm cover caps



Minimum reveal table

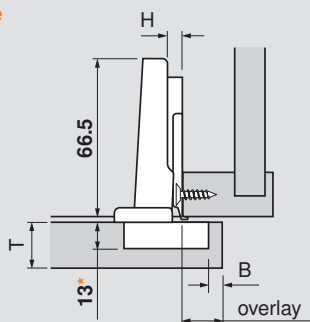
	3	0.5	1.0	1.8	2.7	4.3
4	0.5	1.0	1.7	2.5	3.8	
5	0.5	0.9	1.7	2.4	3.4	
6	0.5	0.9	1.6	2.3	3.2	
7	0.5	0.9	1.6	2.2	3.0	
B = boring distance	16	19	22	24	26	

T = door thickness

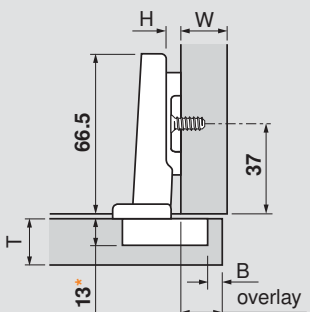
Thickness greater than 26 trial recommended

Overlay

Frame

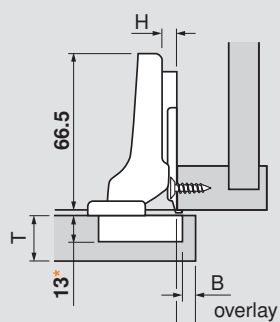


Panel

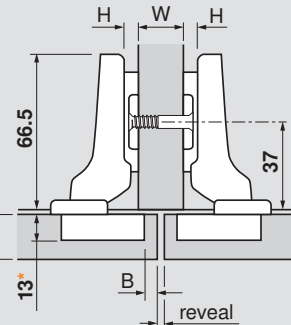


Partial/twin overlay

Frame

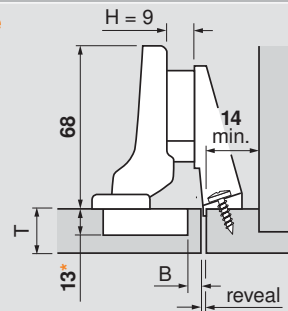


Panel



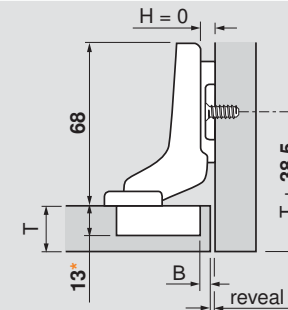
Inset

Frame



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

Panel



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

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

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

H	Overlay						P	S
0	4.5	5.5	6.5	7.5	8.5	21.5	31	
	3	4	5	6	7	Fixed distance = 1.5		
	B = boring distance							
H	Reveal					W	P	S
0	7	5	3	1	-	16		
	10	8	6	4	2	19	21.5	31
	13	11	9	7	5	22		
	3	4	5	6	7	B = boring distance		

H	Reveal						P	S
0	4	3	2	1	-	30	39.5	
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
Screw-on	71B3550
Press-in	71B3580
INSERTA	71B3590
EXPANDO	71B358E

Half-cranked	Self close
Screw-on	71B3650
Press-in	71B3680
INSERTA	71B3690

Full-cranked	Self close
Screw-on	71B3750
Press-in	71B3780
INSERTA	71B3790

CLIP top BLUMOTION 110°+

Hinges



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **26** (1")
- Overload safety feature
- For door overlays up to **22** mm
- 86° angle restriction clip available (70T3553)
- Compatible with existing CLIP mounting plates and hinge arm cover caps



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

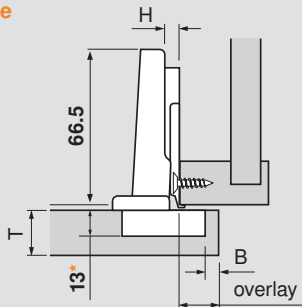
T = door thickness

Thickness greater than **26** trial recommended

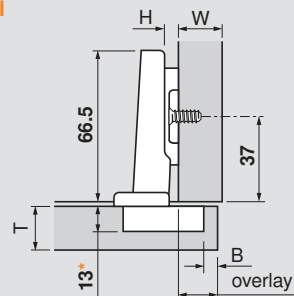
CLIP top
BLUMOTION

Overlay

Frame

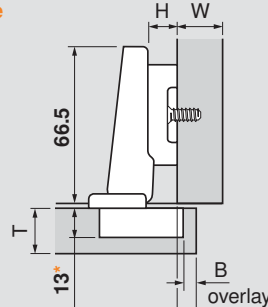


Panel

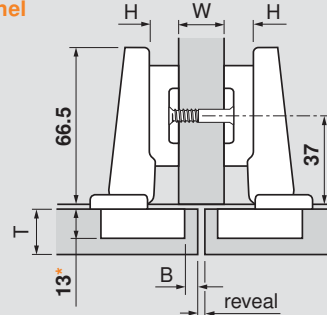


Partial/twin overlay

Frame

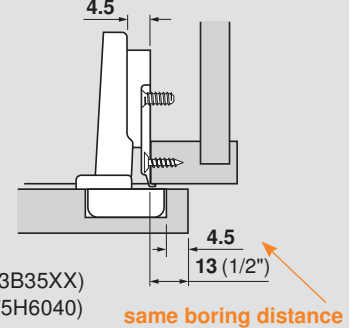


Panel

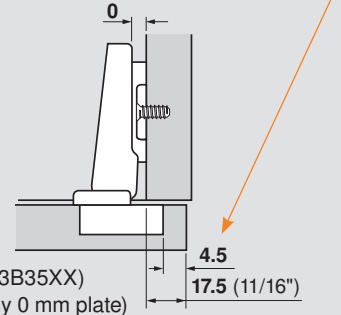


Building both frame and panel cabinets

Frame



Panel



*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
Screw-on	73B3550
Press-in	73B3580
INSERTA	73B3590
EXPANDO	73B358E

Straight-arm	Self close
Screw-on	73B3550
Press-in	73B3580
INSERTA	73B3590
EXPANDO	73B358E

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

Hinges



CLIP top BLUMOTION 95° thick door



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **30** (1-3/16")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

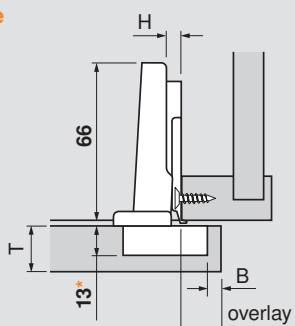


Minimum reveal table							
3	0.4	0.8	1.0	1.5	1.9	2.8	3.6
4	0.4	0.7	1.0	1.4	1.8	2.5	3.1
5	0.4	0.7	1.0	1.4	1.8	2.3	2.7
6	0.4	0.7	1.0	1.4	1.8	2.2	2.5
7	0.4	0.7	0.9	1.4	1.7	2.1	2.4
B = boring distance	19	22	24	26	28	29	30
T = door thickness							

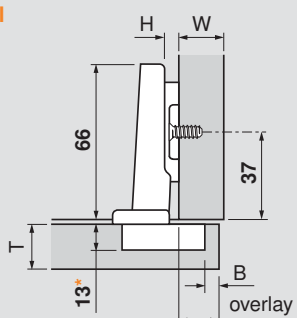
Thickness greater than **30** trial recommended

Overlay

Frame

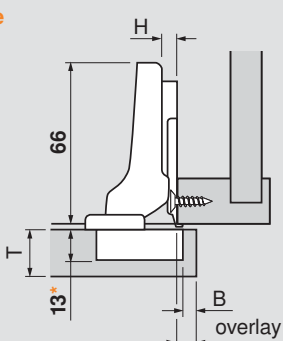


Panel

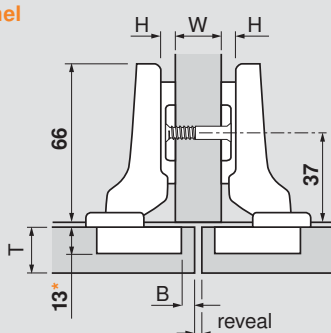


Partial/twin overlay

Frame

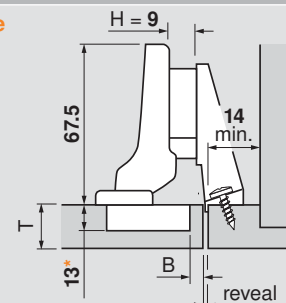


Panel



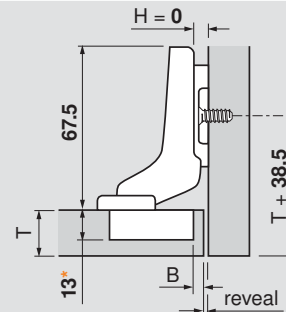
Inset

Frame



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

Panel



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

H	Overlay						P	S
0	14	15	16	17	18	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
0	7	5	3	1	-	16		
	10	8	6	4	2	19	24	31
	13	11	9	7	5	22		
	3	4	5	6	7	Fixed distance = 1.5		
	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
Screw-on	71B9550
Press-in	71B9580
INSERTA	71B9590

Half-cranked	Self close
Screw-on	71B9650
Press-in	71B9680
INSERTA	71B9690

Full-cranked	Self close
Screw-on	71B9750
Press-in	71B9780
INSERTA	71B9790

CLIP top BLUMOTION 110° diagonal 45°

Hinges

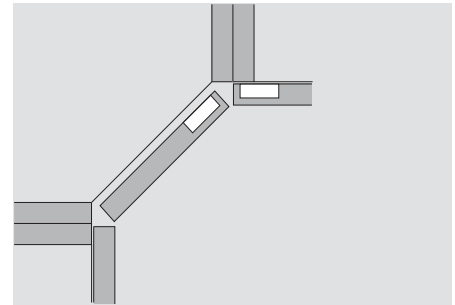


CLIP top
BLUMOTION



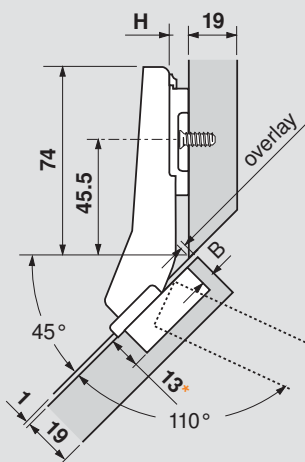
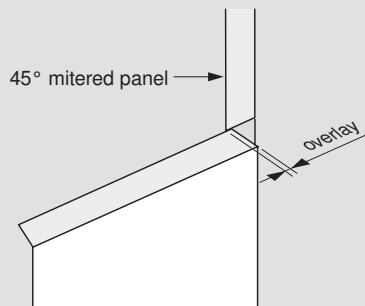
Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **19** (3/4")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

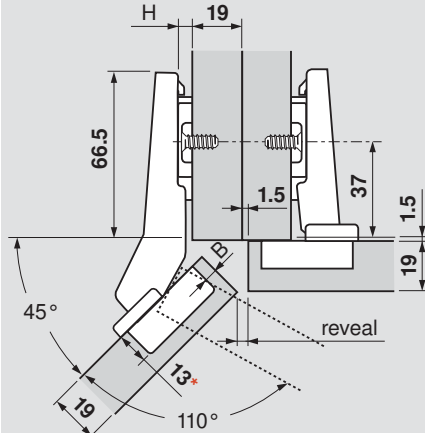
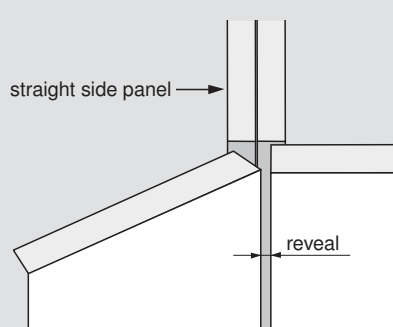


Thickness greater than **19** trial recommended

Overlay application



Inside corner



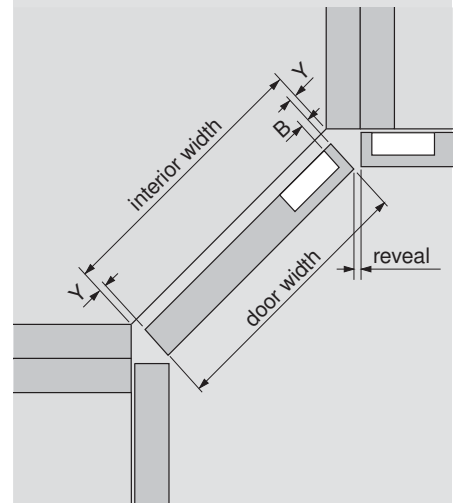
Calculating door width

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.

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



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

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: Calculations based on **19** (3/4") door thickness

Diagonal 45° hinge	Self close
INSERTA	79B3598

Diagonal 45° hinge	Self close
INSERTA	79B3598

Abbreviations	
H	= Plate height
Y	= Side gap

Hinges



CLIP top BLUMOTION 95° inset blind corner



Features

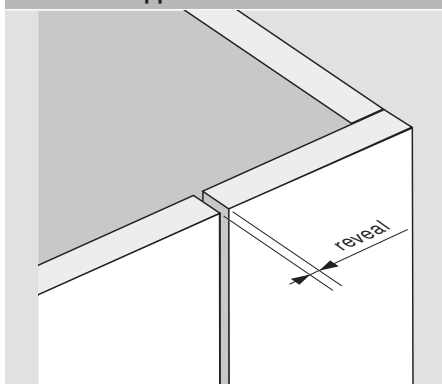
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps



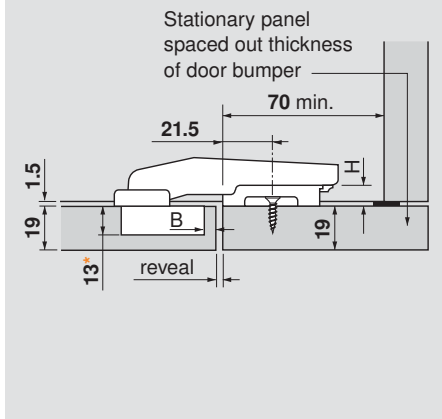
Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.4	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B = boring distance	16	18	19	20	22	24
T = door thickness						

Thickness greater than 24 trial recommended

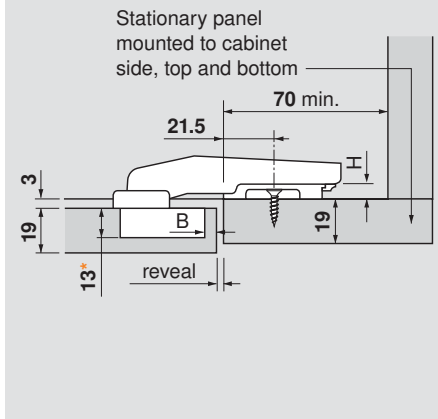
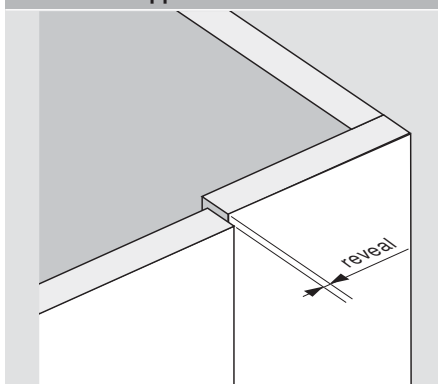
Flush door applications



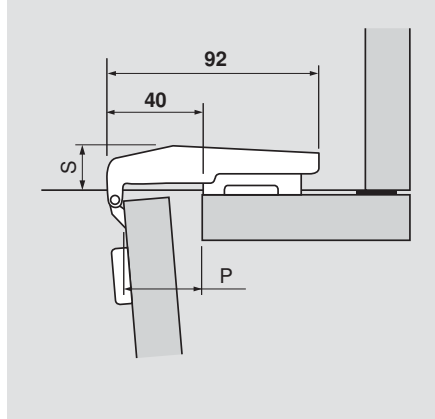
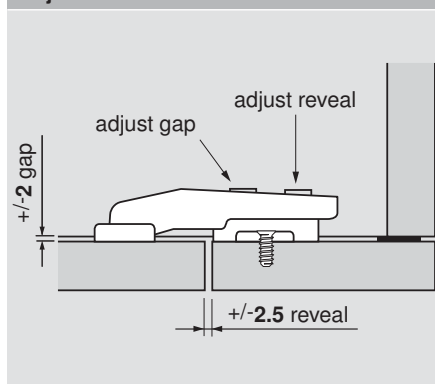
Back of door is flush with stationary panel



Offset door applications



Adjustments and clearance



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

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

H	Reveal					P	S
0	5	4	3	2	1	33.5	21
	3	4	5	6	7		
B = boring distance							

Abbreviations

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

Inset blind corner	Self close
Screw-on	79B9550
Press-in	79B9580
INSERTA	79B9590

Inset blind corner	Self close
Screw-on	79B9550
Press-in	79B9580
INSERTA	79B9590

CLIP top BLUMOTION 95° overlay blind corner

Hinges



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps

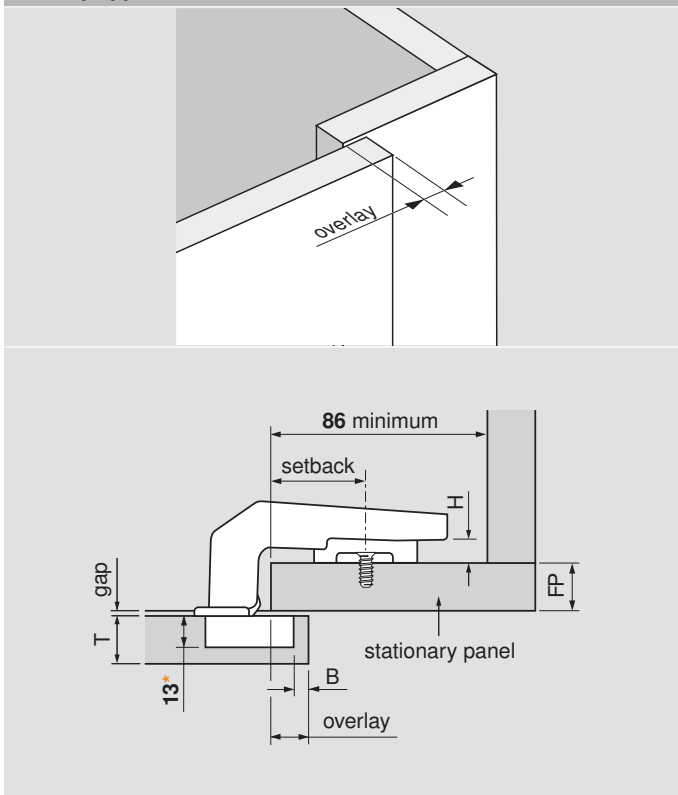


Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B = boring distance	16	18	19	20	22	24
T = door thickness						

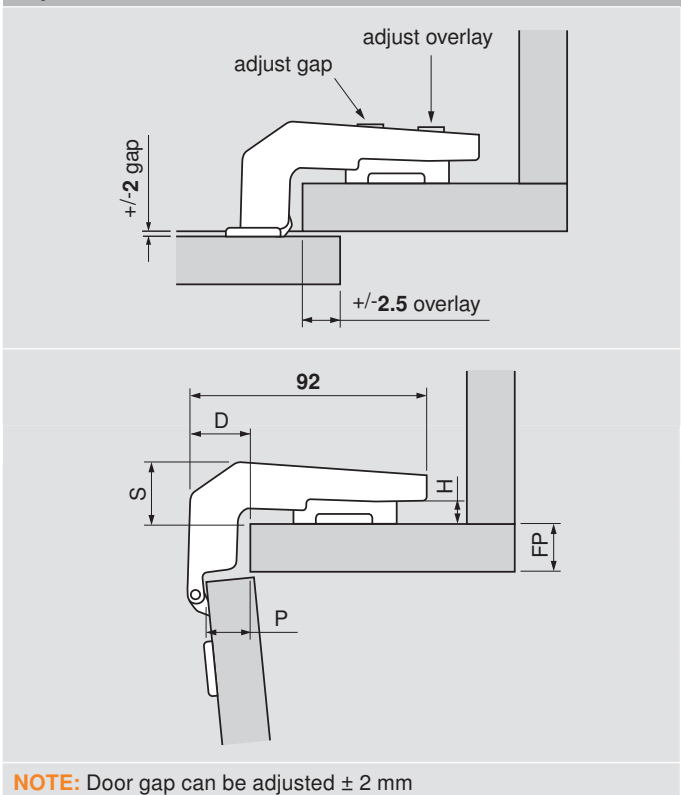
Thickness greater than 24 trial recommended

CLIP top
BLUMOTION

Overlay application



Adjustments and clearances



NOTE: Door gap can be adjusted ± 2 mm

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

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 boring distance.

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

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

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

Overlay blind corner	Self close
Press-in	79B9980

Hinges



CLIP top BLUMOTION 95° narrow aluminum door



Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 22 (7/8")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps



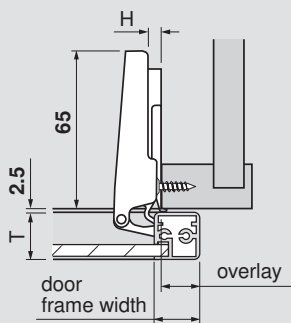
Minimum reveal table					
18	0.2	0.3	0.4	0.6	0.7
19	0.2	0.3	0.4	0.6	0.7
20	0.2	0.3	0.4	0.5	0.7
21	0.2	0.3	0.4	0.5	0.7
22	0.2	0.3	0.4	0.5	0.7
Door frame width	18	19	20	21	22

T = door thickness

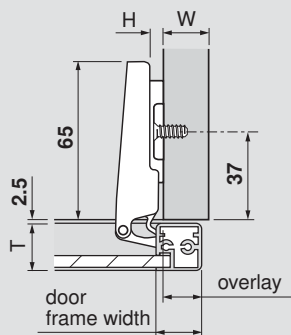
Thickness greater than 22 trial recommended

Overlay

Frame

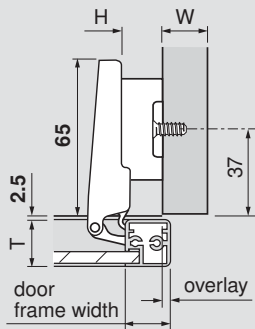


Panel

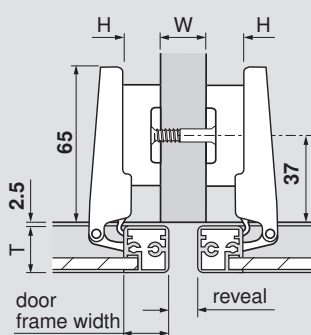


Partial/twin overlay

Panel

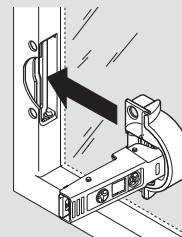


Panel

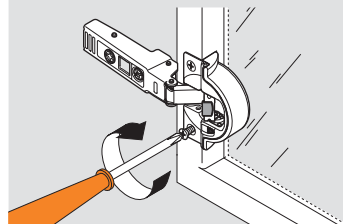


Installation

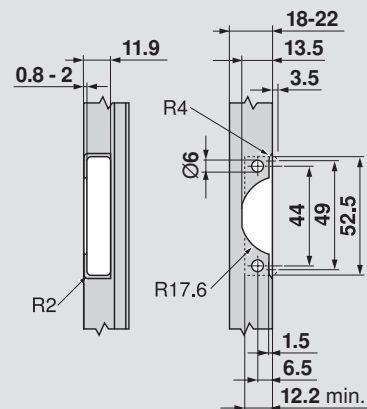
Attach cup adapter to the hinge and insert into machined openings



Attach using aluminum screws provided with hinges (699.110)



Aluminum door preparation



H	Overlay	P	S
0	16	13.5	22
3	13	16.5	25
4.5	11.5	18	26.5
6	10	19.5	28
9	7	22.5	31
B = fixed			

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

H	Overlay	P	S
9	7	23	31
B = fixed			

H	Reveal	W	P	S
9	2	16	23	31
	5	19		
B = fixed				

Abbreviations

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

Screw-on

Self close

Screw-on

71B950A

Screw-on

Self close

Screw-on

71B950A



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

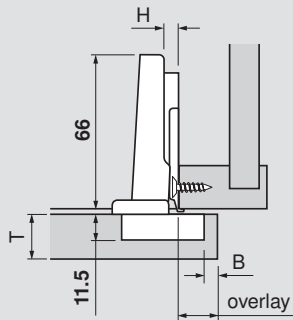
	0.6	1.0	1.3	1.7	2.5
3	0.6	1.0	1.3	1.6	2.4
4	0.6	1.0	1.2	1.5	2.2
5	0.6	1.0	1.2	1.4	2.0
6	0.6	1.0	1.2	1.4	2.0
B = boring distance	16	18	19	20	22
T = door thickness					

Thickness greater than **22** trial recommended

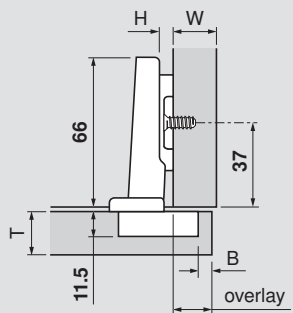
CLIP top

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

Hinges



CLIP top 110°



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

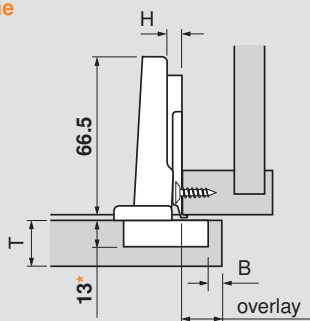
Minimum reveal table

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

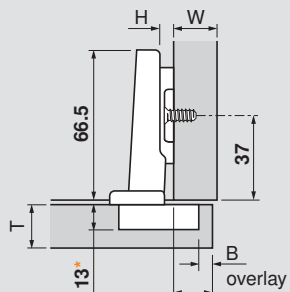
Thickness greater than 26 trial recommended

Overlay

Frame

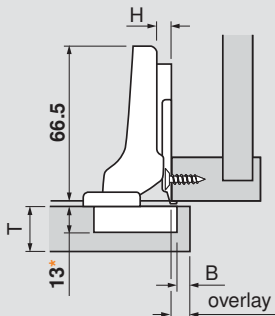


Panel

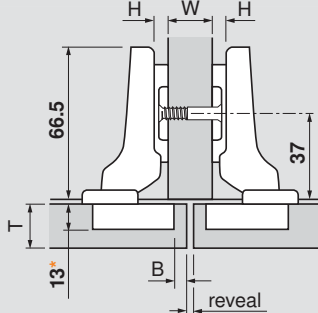


Partial/twin overlay

Frame

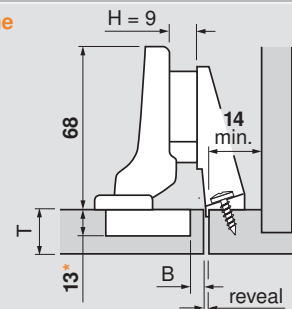


Panel



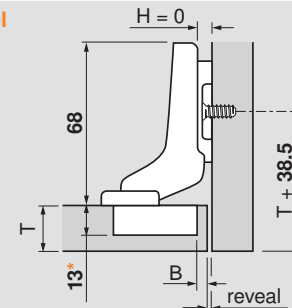
Inset

Frame



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

Panel



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

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

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

H	Overlay						P	S
0	4.5	5.5	6.5	7.5	8.5	21.5	31	
	3	4	5	6	7	Fixed distance = 1.5		
	B = boring distance							
H	Reveal					W	P	S
0	7	5	3	1	—	16		
	10	8	6	4	2	19	21.5	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							

H	Reveal						P	S
0	4	3	2	1	—	30	39.5	
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

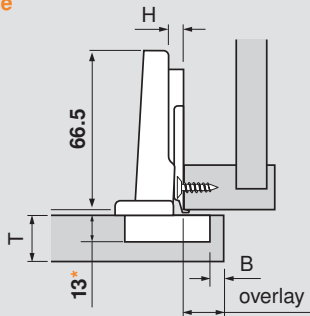
T = door thickness

Thickness greater than 26 trial recommended

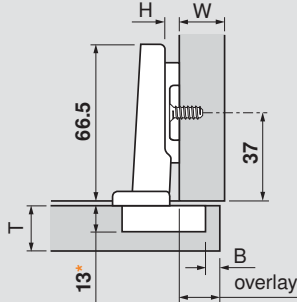
CLIP top

Overlay

Frame

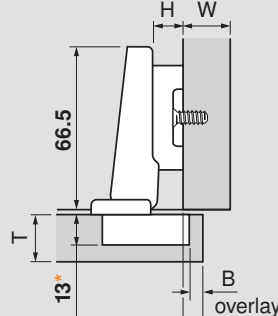


Panel

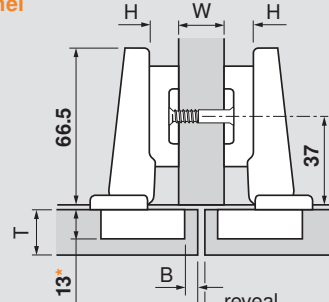


Partial/twin overlay

Panel

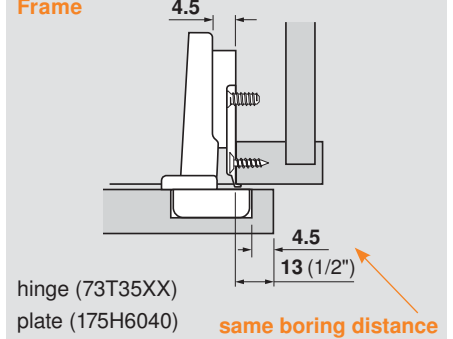


Panel

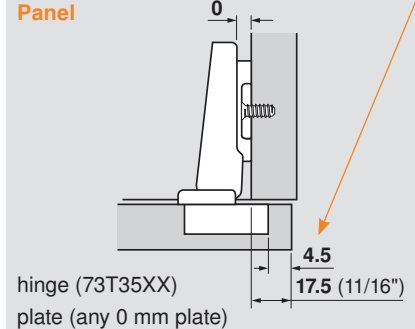


Building both frame and panel cabinets

Frame



Panel



*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

Hinges



CLIP top 120°



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

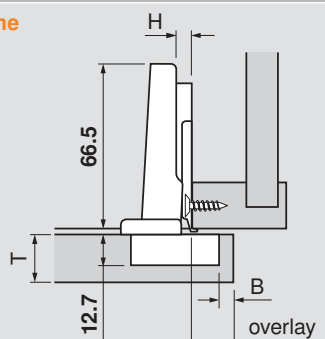
Minimum reveal table

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

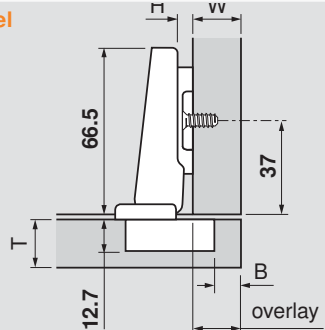
Thickness greater than 22 trial recommended

Overlay

Frame

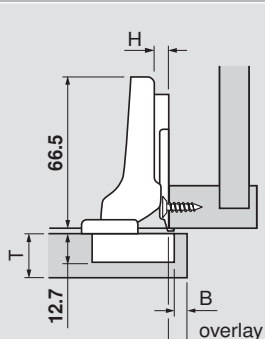


Panel

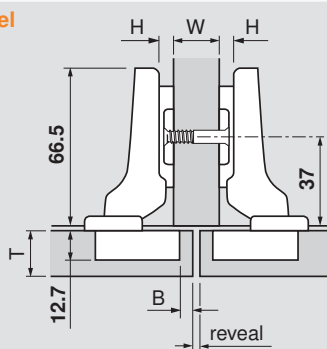


Partial/twin overlay

Frame

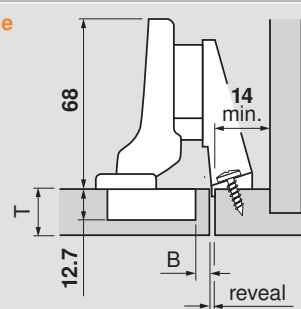


Panel



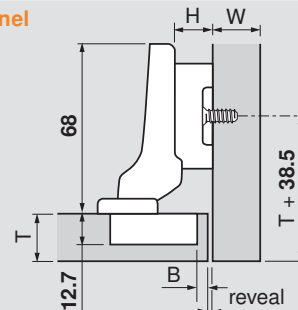
Inset

Frame



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

Panel



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

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

H	Overlay				P	S	
0	4.5	5.5	6.5	7.5	21.5	30	
	3	4	5	6	Fixed distance = 1.5		
	B = boring distance						
H	Reveal				W	P	S
0	7	5	3	1	16	21.5	30
	10	8	6	4	19		
	13	11	9	7	22		
	3	4	5	6			
	B = boring distance						

H	Reveal				P	S
9	4.5	3.5	2.5	1.5	30.5	39
	3	4	5	6	Fixed distance = -7.5	
	B = boring distance					
Abbreviations						
H	= Plate height					
P	= Door protrusion					
S	= Side arm protrusion					
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



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

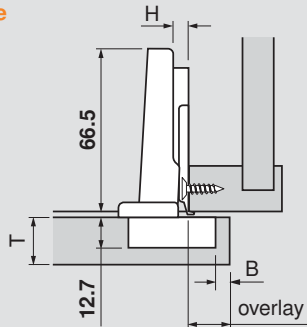
	3	4	4.5	5	6
1.2	1.2	1.2	1.1	1.1	1.1
1.7	1.7	1.7	1.6	1.6	1.6
2.0	2.0	2.0	1.9	1.9	1.9
2.4	2.4	2.3	2.2	2.2	2.2
3.3	3.1	3.0	3.0	3.0	2.9
B = boring distance	16	18	19	20	22
T = door thickness					

Thickness greater than 22 mm recommended

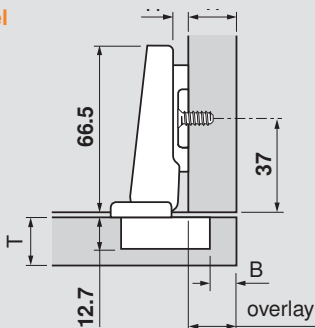
CLIP top

Overlay

Frame

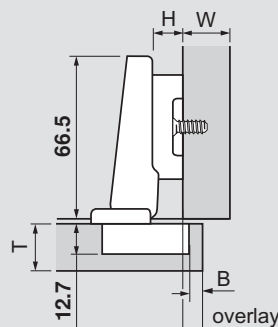


Panel

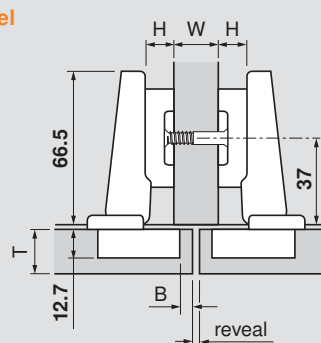


Partial/twin overlay

Panel

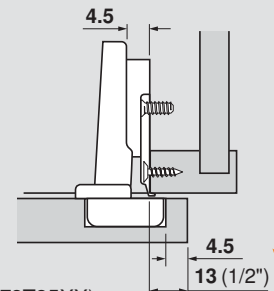


Panel



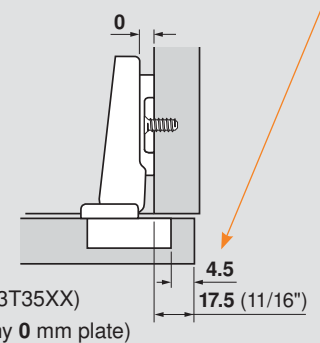
Building both frame and panel cabinets

Frame

Hinge (73T35XX)
Plate (175H6040)

same boring distance

Panel

hinge (73T35XX)
plate (any 0 mm plate)

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	73T5550
Press-in	73T5580
INSERTA	73T5590B
EXPANDO	73T558E

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

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

Hinges



CLIP top 95° thick door



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

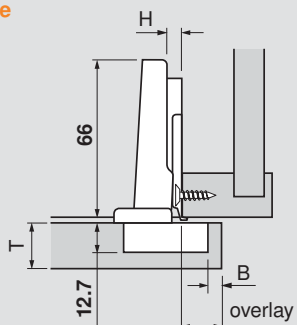
Minimum reveal table

	3	4	5	6	7		
	0.4	0.8	1.0	1.5	1.9	2.8	3.6
	0.4	0.7	1.0	1.4	1.8	2.5	3.1
	0.4	0.7	1.0	1.4	1.8	2.3	2.7
	0.4	0.7	1.0	1.4	1.8	2.2	2.5
	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							

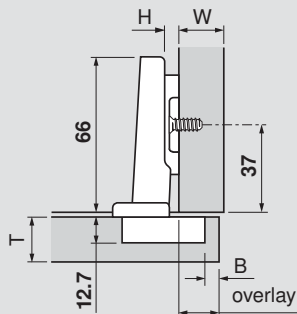
Thickness greater than **30** trial recommended

Overlay

Frame

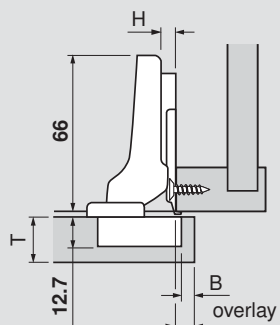


Panel

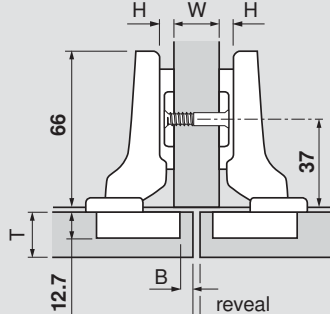


Partial/twin overlay

Frame

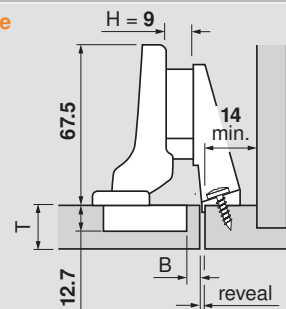


Panel



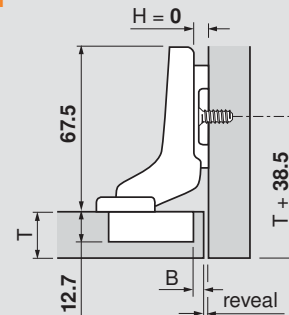
Inset

Frame



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

Panel



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

NOTE: 4.5 plate is only for use in 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
0	7	5	3	1	-	16		
	10	8	6	4	2	19	24	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							

H	Reveal						P	S
0	4	3	2	1	-		32.5	40
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							

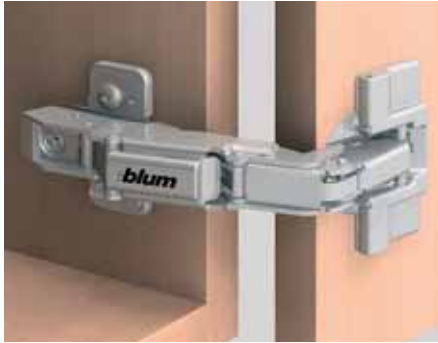
Abbreviations

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	



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

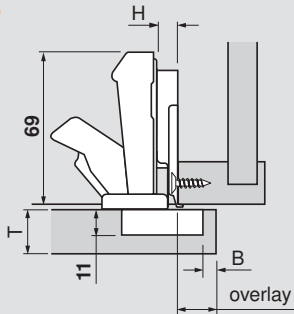
	3	4	5	6	7	8
B = boring distance	0	0	0	0	0	0
T = door thickness	0.2	0	0	0	0	0
	2.2	1.4	0.9	0	0	0

Thickness greater than 24 trial recommended

CLIP top

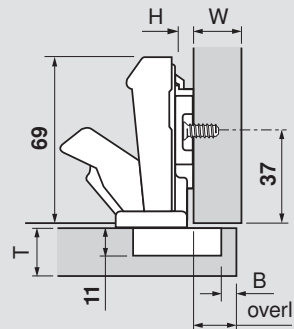
Overlay

Frame



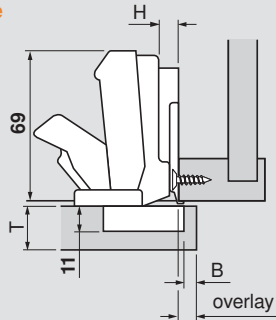
NOTE: 175H6xxx or 175L6600.24 recommended

Panel

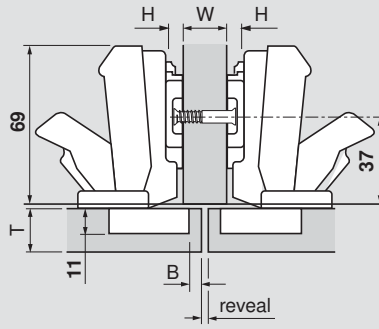


Partial/twin overlay

Frame



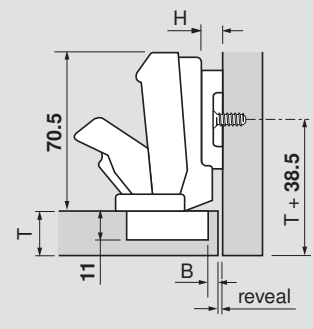
Panel



Inset

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

Panel



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

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

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


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


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

Abbreviations

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

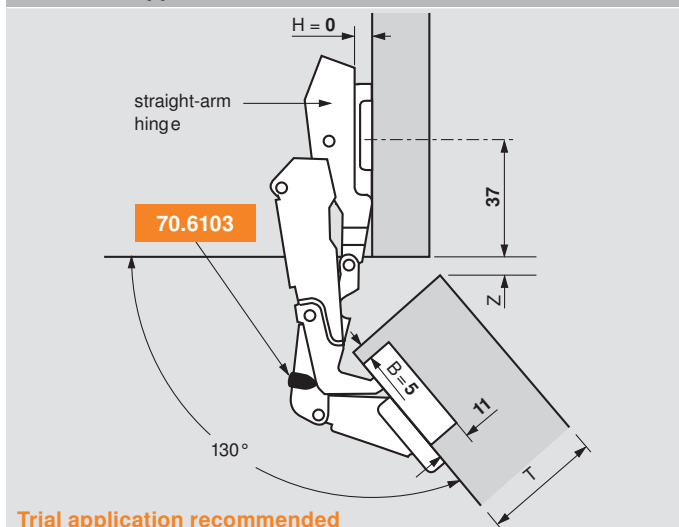
Straight-arm	Self close	Free swing
Screw-on	71T6550	70T6550.TL
Press-in 	71T6580	
INSERTA	71T6540B	70T6540BTL

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

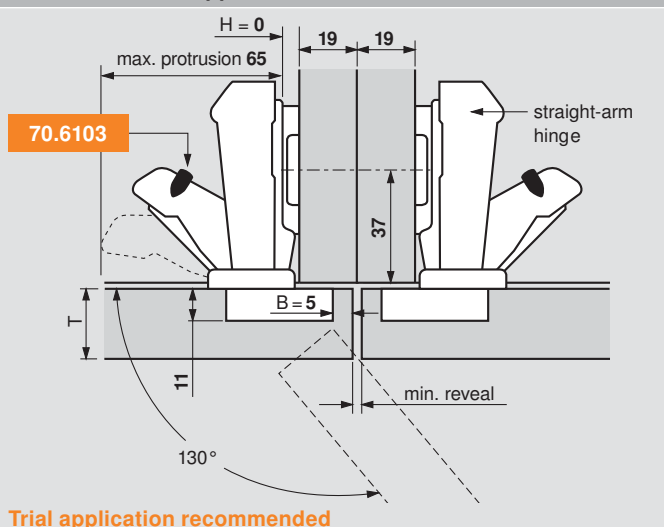
Half-cranked	Self close	Free swing
Screw-on	71T6650	70T6650.TL
Press-in 	71T6680	
INSERTA	71T6640B	

Straight-arm applications

Thick door application



Thick door – twin application



Z = gap

15.5	13	11	9.5	7.5
25	29	32	35	38

T = door thickness

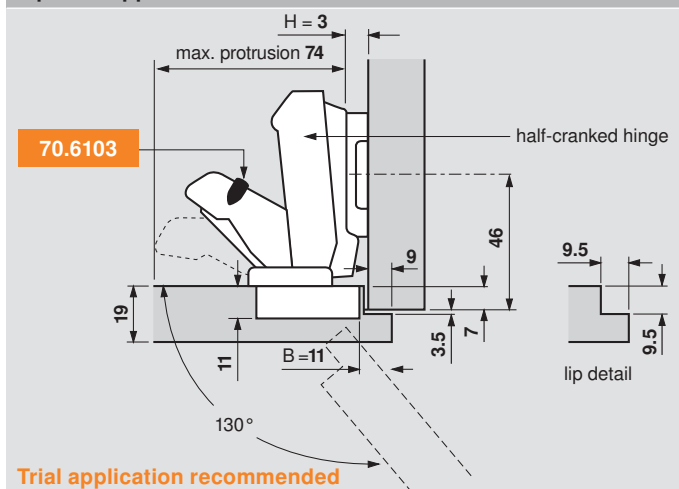
Minimum reveal table

0	6.5	14.5	21
22	25	29	32

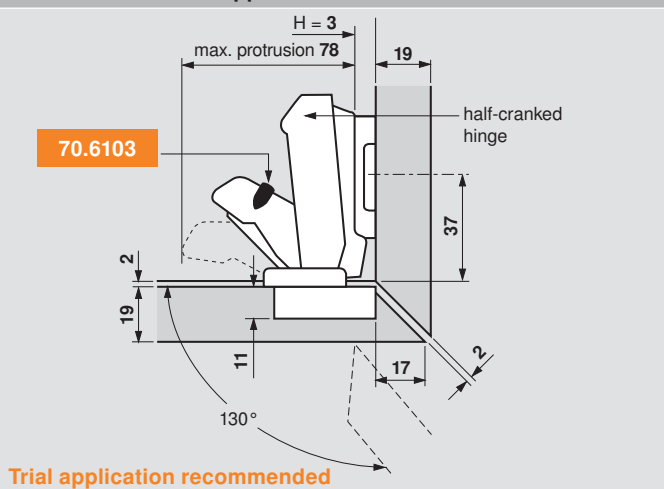
T = door thickness

Half-cranked applications

Lip door application



Mitered corner door application



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

Angle restriction clip



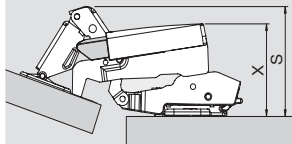
- Reduces opening angle of the CLIP top 170° to 130°
- Installs quickly, easily and tool-free
- Black nylon

Part no.

Angle restriction clip

70.6103

BLUMOTION for 170° hinge



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

Part no.

BLUMOTION for 170° hinge

973A6000

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

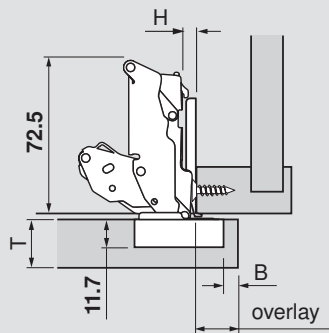
	3	4	5	6	7	8
B = boring distance	0	0	0	0	0	0
T = door thickness	0	0	0	0	0	0

Thickness greater than **24** please see page 27

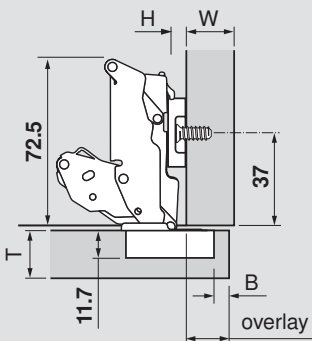
CLIP top

Overlay

Frame

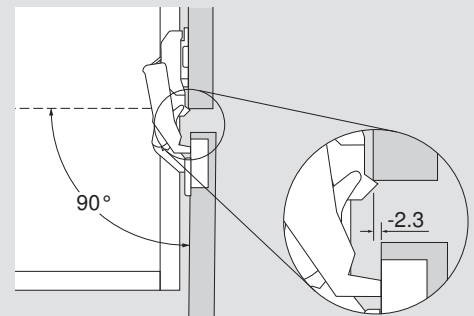


Panel



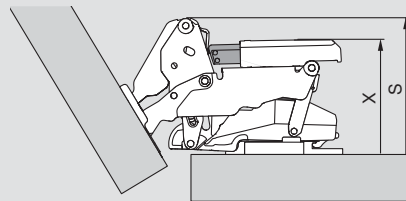
Door protrusion

At a 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.



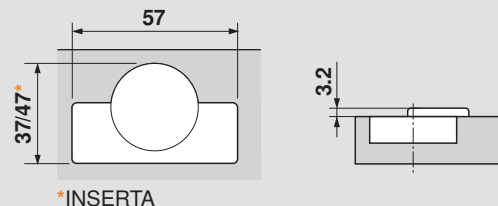
NOTE: Use of **0** mm or **3** mm is recommended for zero protrusion

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



*INSERTA

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

Straight-arm	Self close
Screw-on	71T7500N
Press-in	71T7530N
INSERTA	71T7540N01

Angle restriction clips



- For use with 155°/125° zero protrusion hinges
- Gray nylon

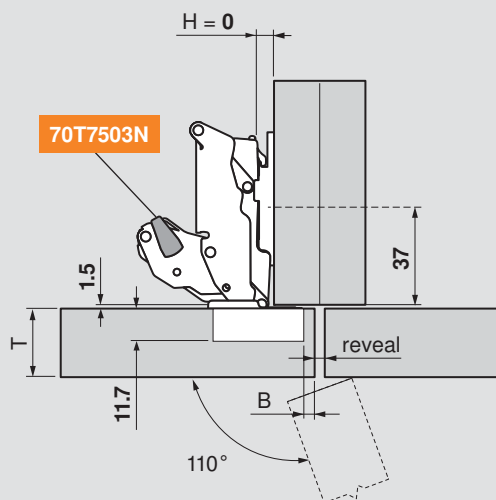
Part no.

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

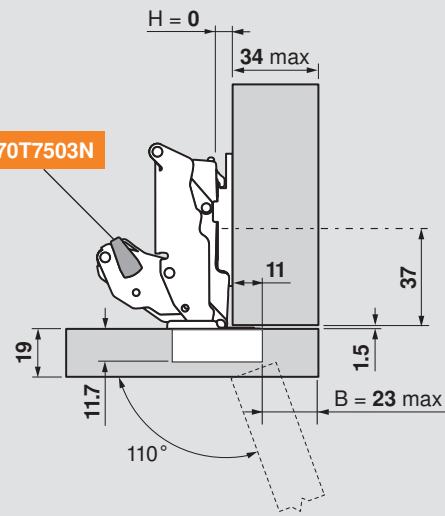
Maximum door thickness



Trial application recommended

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

Maximum door overlay



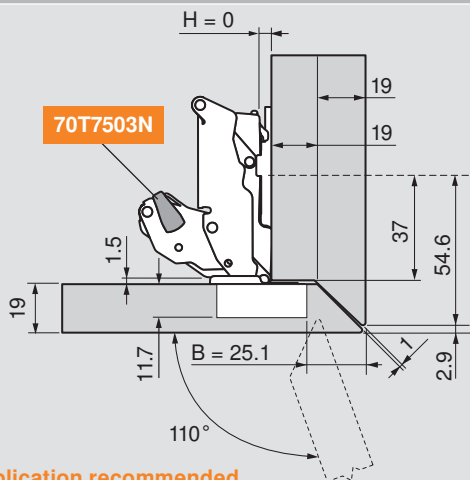
Trial application recommended

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

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

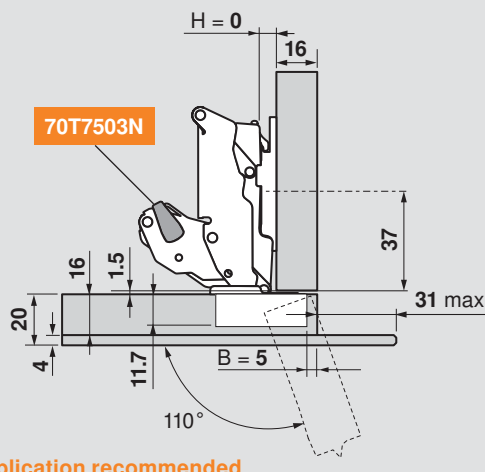
H	Overlay							
0	19	22	24	26	28	30	32	34
	8	11	13	15	17	19	21	23
	B = boring distance							

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	71T7500N
Press-in	71T7530N
INSERTA	71T7540N01

Angle restriction clips



- For use with 155°/125° zero protrusion hinges
- Gray nylon

Part no.

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

Abbreviations

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

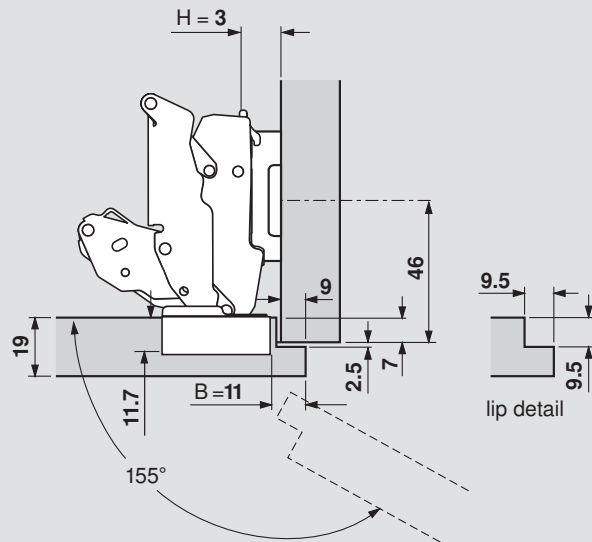
CLIP top 155° half-cranked special applications

Hinges



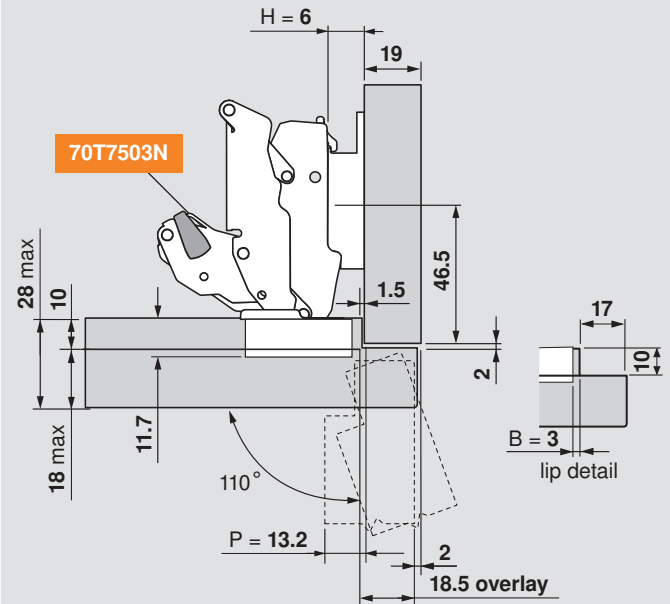
CLIP top

Lip door



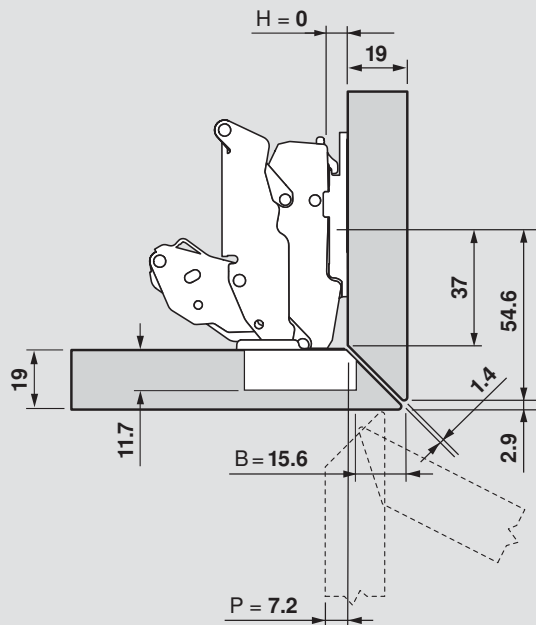
Trial application recommended

Thick lip door



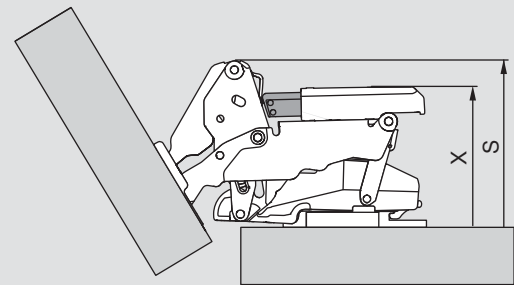
Trial application recommended

Two-sided and four-sided mitered door



Trial application recommended

BLUMOTION for 155° hinge



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

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

Half-cranked	Self close
Screw-on	71T7600N
INSERTA	71T7640N01

Angle restriction clips



- For use with 155°/125° zero protrusion hinges
- Gray nylon

Part no.

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

Abbreviations

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

Hinges



CLIP top 125° zero protrusion for thicker doors



Features

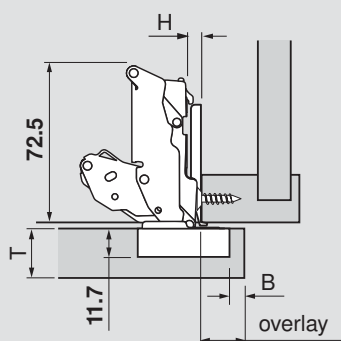
- Zero protrusion hinge for thicker doors
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- For door thicknesses up to **30** (1-3/16")
- 92° angle restriction clip available
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table								
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
B = boring distance	19	20	22	24	26	28	30	
T = door thickness								

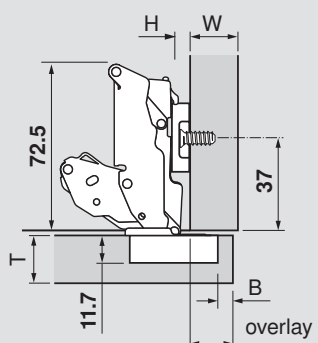
Thickness greater than **30** mm, see next page

Overlay

Frame

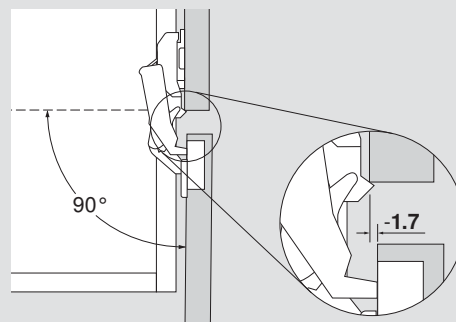


Panel



Door protrusion

At 90° opening, using **0** mm plate, the door will have **-1.7** 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

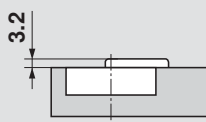
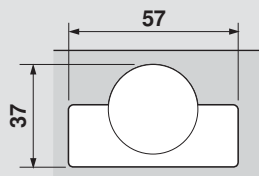
Hinges per door

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 for each door.

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

Cabinet height	Hinges required per door			
	2	3	4	5
100"				
80"				
60"				
40"		15-30 lb	30-45 lb	45-60 lb
20"	<15 lb			

Hinge cup dimensions



Cover cap



- For use with zero protrusion hinges
- Steel, nickel-plated
- Custom logo available

Part no.

Cover cap **70.7503**

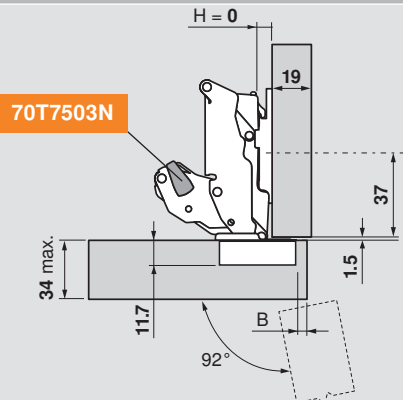
Abbreviations

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

H	Overlay							P	S
0	14	15	16	17	18	19	-1.7	63	
3	11	12	13	14	15	16	1.3	66	
	3	4	5	6	7	8	Fixed distance = 11		
B = boring distance									

Straight-arm		Self close
Screw-on		71T7500D
Press-in		71T7530D

Maximum door thickness

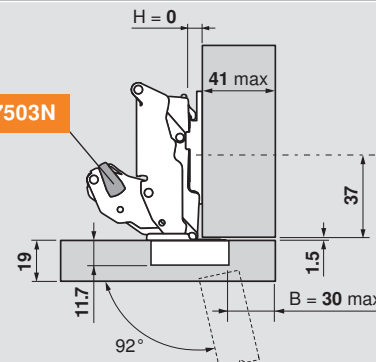


NOTE: Thickness of 30 mm or greater, angle restriction clip required

H	Overlay					
0	14	15	16	17	18	19
	3	4	5	6	7	8

B = boring distance

Maximum door overlay

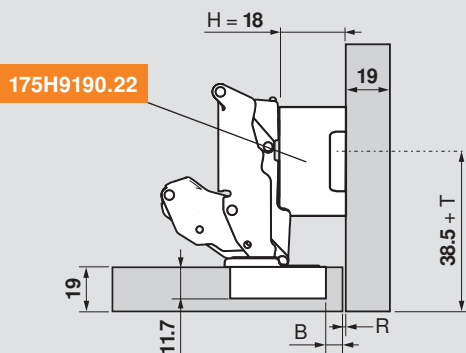


NOTE: Must use angle restriction clip to achieve application

H	Overlay			
0	36	38	39	41
	25	27	28	30

B = boring distance

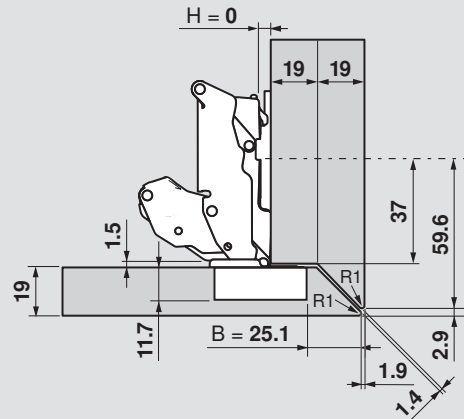
Inset panel application



H	Reveal					
18	4.5	3.5	2.5	1.5	0.5	–
	3	4	5	6	7	8

B = boring distance

Mitered door with large overlay



For all special applications, a trial application is always recommended

Face frame cabinets

All 125° zero protrusion hinge special applications can be achieved in face frame cabinets by blocking out behind the frame

Angle restriction clip



- For use with zero protrusion hinges
- Gray nylon

Part no.

92° restriction clip **70T7503N**

BLUMOTION for doors

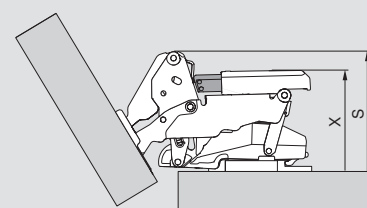


- For use with zero protrusion hinges
- Designed for one BLUMOTION per self closing hinge, however quantity may vary depending on door size and weight

Part no.

BLUMOTION for doors **973A7000**

Protrusion dimensions



Hinge	S = 63
BLUMOTION for doors	X = 57

Hinges



CLIP top 95° inset blind corner



Features

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

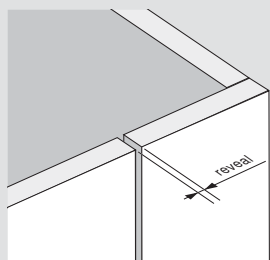
Minimum reveal table

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

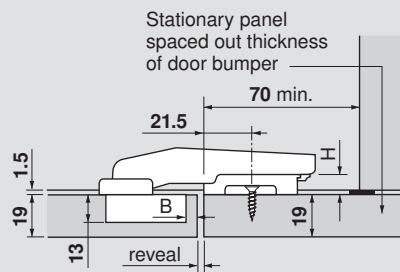
T = door thickness

Thickness greater than **24** trial recommended

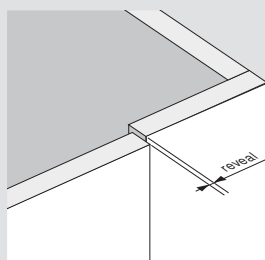
Flush door applications



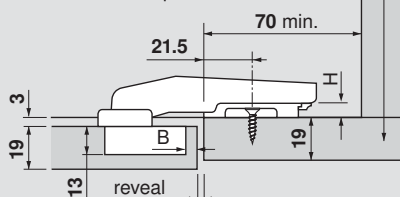
Back of door is flush with stationary panel



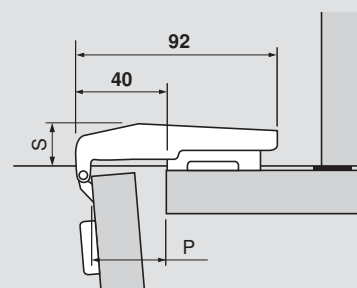
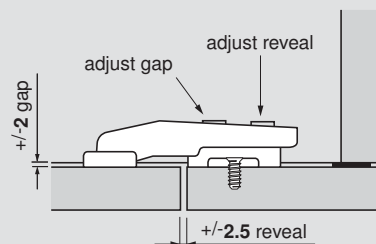
Offset door applications



Stationary panel mounted to cabinet side, top and bottom



Adjustments and clearances



H	Reveal					P	S
3	5	4	3	2	1	33.5	21
	3	4	5	6	7		

B = boring distance

H	Reveal					P	S
0	5	4	3	2	1	33.5	18
	3	4	5	6	7		

B = boring distance

Inset blind corner

Self close

Screw-on	79T9550
Press-in	79T9580
INSERTA	79T9590B

Inset blind corner

Self close

Screw-on	79T9550
Press-in	79T9580
INSERTA	79T9590B

Abbreviations

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

CLIP top 95° overlay blind corner

Hinges



Features

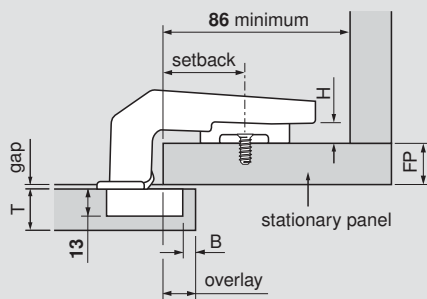
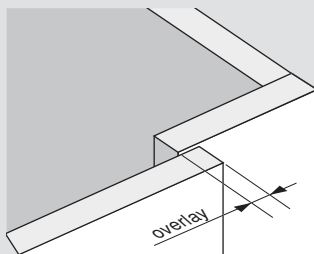
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to **24** (15/16")
- All metal hinge, nickel-plated

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						

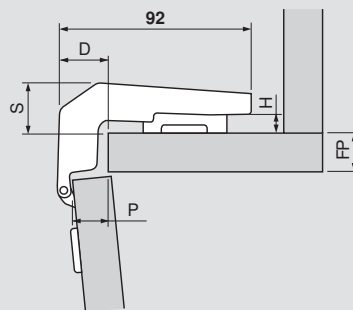
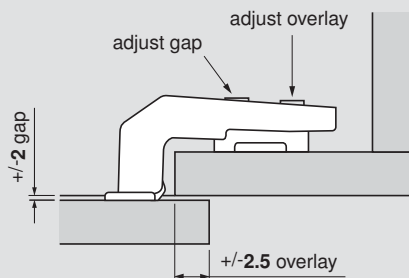
Thickness greater than **24** trial recommended

CLIP top

Overlay application



Adjustments and clearances



NOTE: Door gap can be adjusted ± 2 mm

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

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

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

Overlay blind corner	Self close
INSERTA	79T9990B37

Hinges



CLIP top 120° aluminum door 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

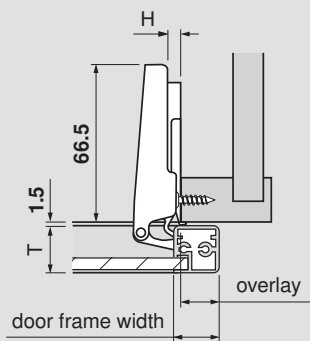
	18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3	
20	1.4	1.8	2.2	2.6	3.1	
21	1.4	1.7	2.1	2.5	3.0	
22	1.3	1.7	2	2.4	2.9	
Door frame width	18	19	20	21	22	

T = door thickness

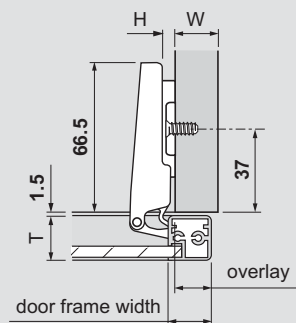
Thickness greater than 22 trial recommended

Overlay

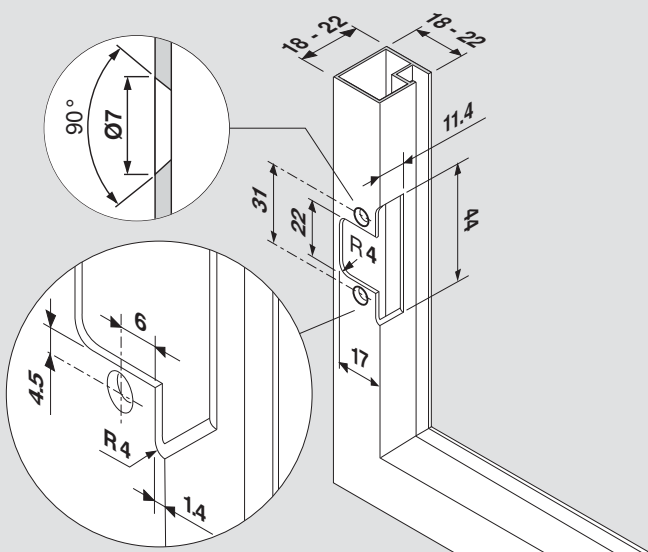
Frame



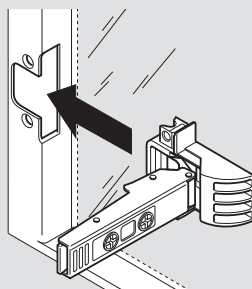
Panel



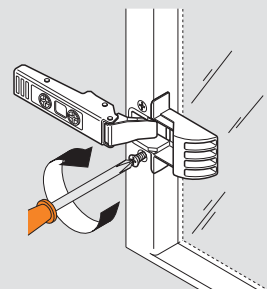
Specifications



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

Screw-on

Self close

73T550AB

Abbreviations

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

CLIP top 120° aluminum door

Hinges

blum



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	

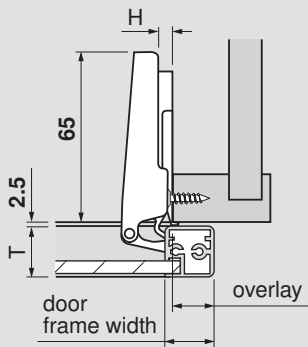
T = door thickness

Thickness greater than **22** trial recommended

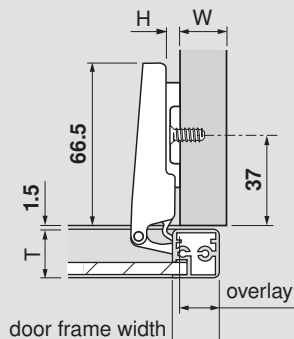
CLIP top

Overlay

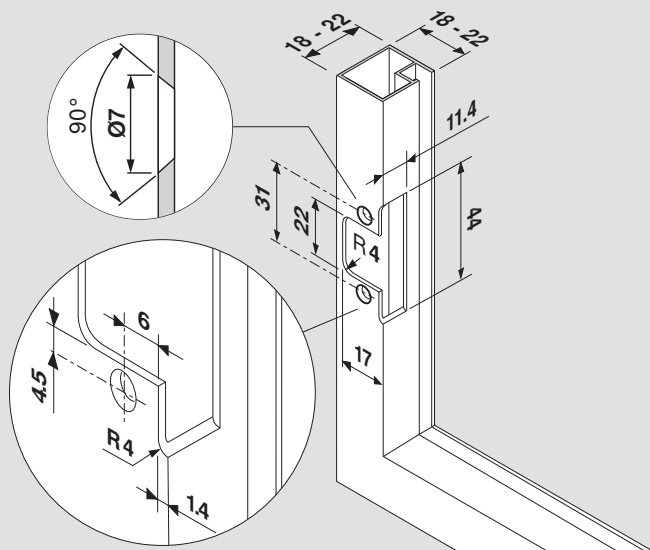
Frame



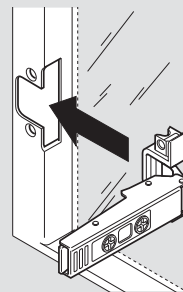
Panel



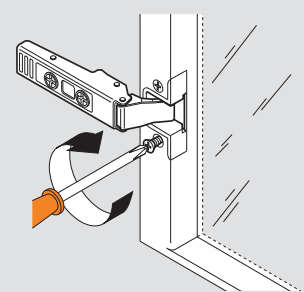
Specifications



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

Hinges

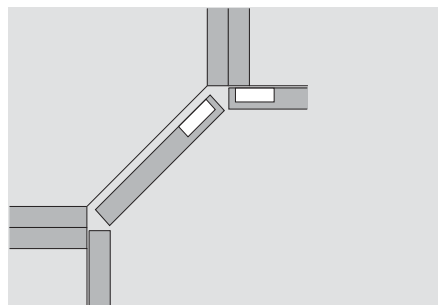


CLIP top 110° diagonal 45°



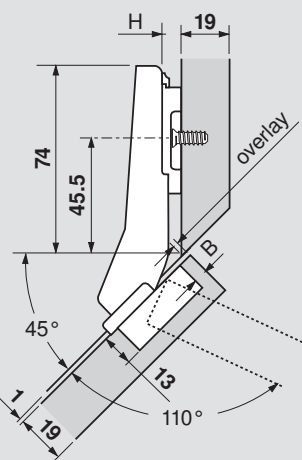
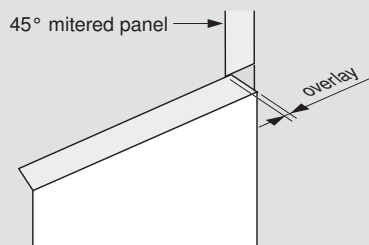
Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 19 (3/4")
- All metal hinge, nickel-plated

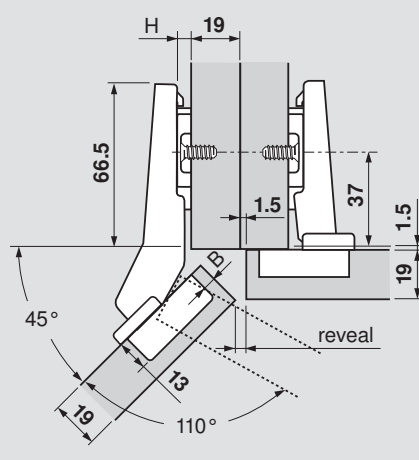
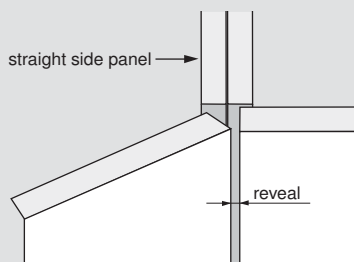


Thickness greater than 19 mm recommended

Overlay application



Inside corner



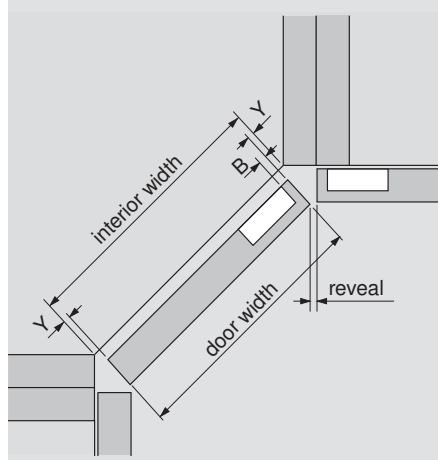
Calculating door width

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

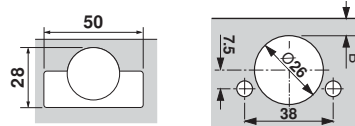
Hinges

blum



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

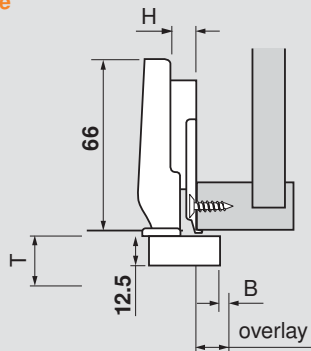
	3	4	5	16	18	19	20	22	24	26
3	1.1	2.2	3.0	3.8	5.5	7.3	9.1			
4	1.1	2.0	2.7	3.5	5.0	6.8	8.6			
5	1.1	1.8	2.4	3.0	4.6	6.3	8.0			
B = boring distance										
T = door thickness										

Thickness greater than 26 trial recommended

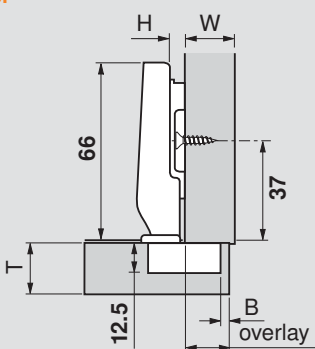
CLIP top

Overlay

Frame

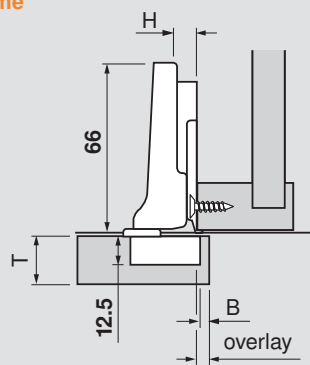


Panel

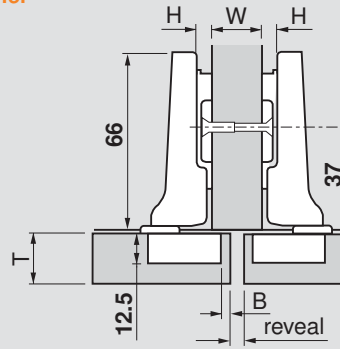


Partial/twin overlay

Frame

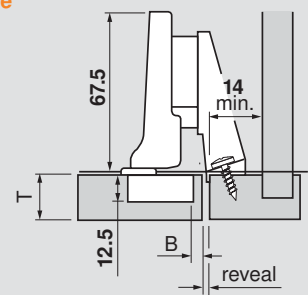


Panel



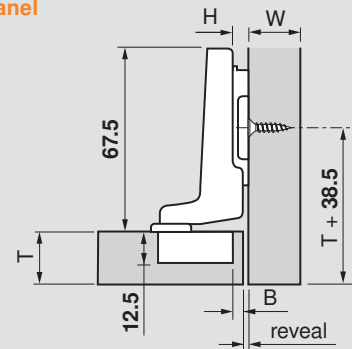
Inset

Frame



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

Panel



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

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

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

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

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

Abbreviations

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

Straight-arm	Self close
Screw-on	71T0550

Half-cranked	Self close
Screw-on	71T0650

Full-cranked	Self close
Screw-on	71T0750

Hinges



CLIP top 95° glass door



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

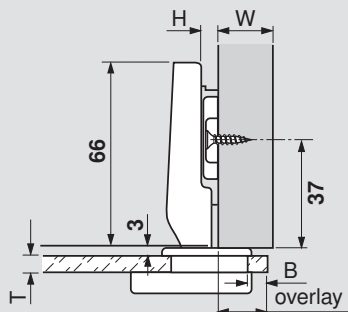
	5.5	6	6.5	7
5.5	0	0	0	0
6	0	0	0	0
6.5	0	0	0	0
7	0	0	0	0
B = boring distance	4.5	5	6	7

T = door thickness

Thickness greater than 7 trial recommended

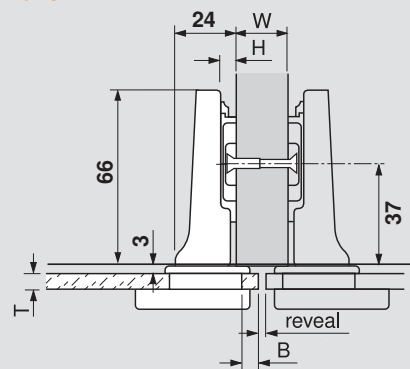
Overlay

Panel



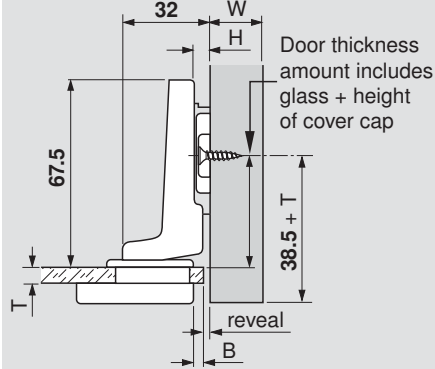
Partial/twin overlay

Panel



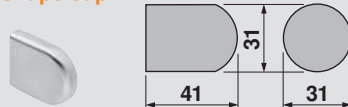
Inset

Panel

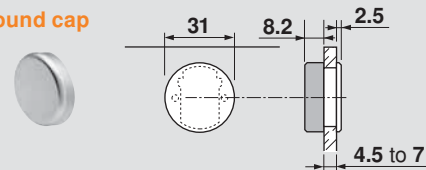


Cover caps for door front

D-shape cap



Round cap

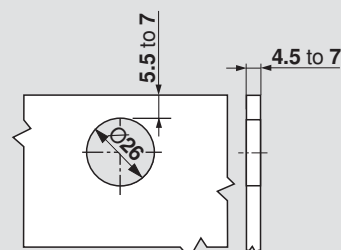


- Required on door front
- D-shape available in polished chrome
- Round available in black and polished chrome

Part no.

D-shape cover cap	84.4120
Round cover cap	84.4140

Boring pattern



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

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

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

Straight-arm	Self close
Screw-on	75T4100

Half-cranked	Self close
Screw-on	75T4200

Full-cranked	Self close
Screw-on	75T4300

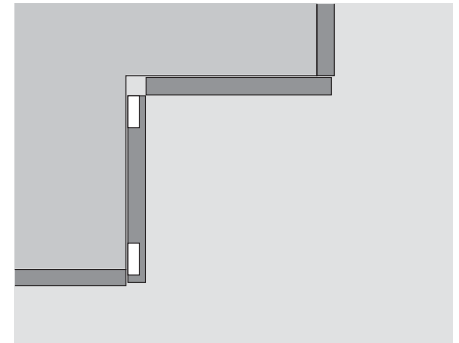
CLIP top 60° bi-fold

Hinges



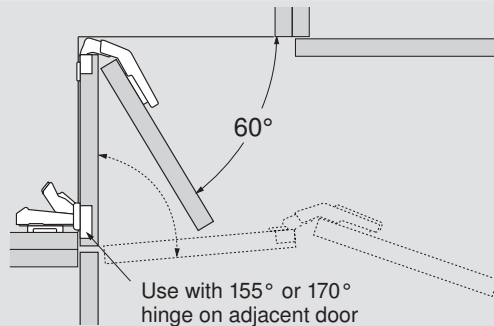
Features

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



CLIP top

Inside corner application



Calculating door sizes

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

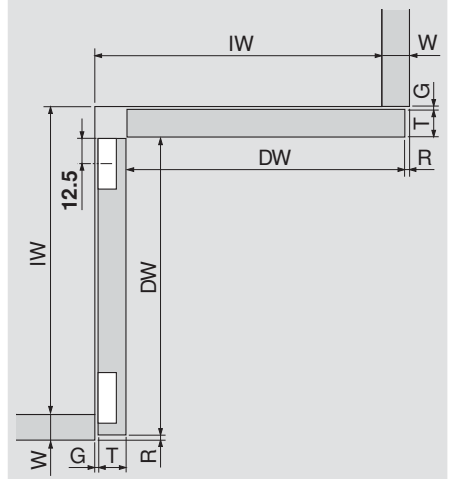
Step 1. Add the interior width to the side panel width (W)

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

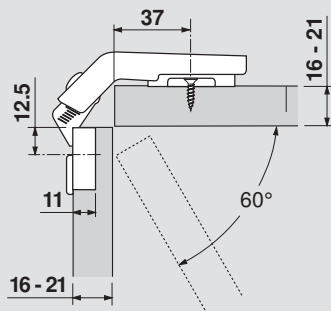
Step 3. Subtract gap (G) and bumper thickness behind adjacent door

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

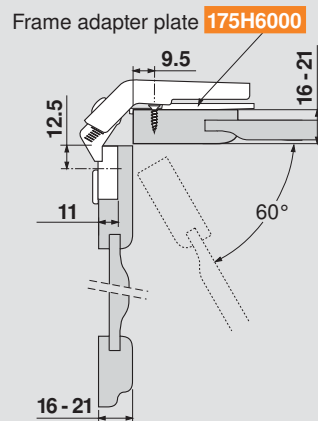
Example: $DW = (500 + 19) - 19 - 3 - 1$
 $DW = 496 \text{ mm}$



With flat panel doors

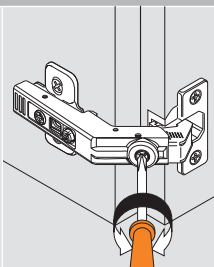


With profile doors

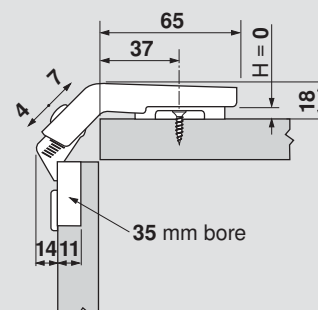


Adjustment

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



General specifications



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

Abbreviations

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

Hinges



CLIP 107°



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

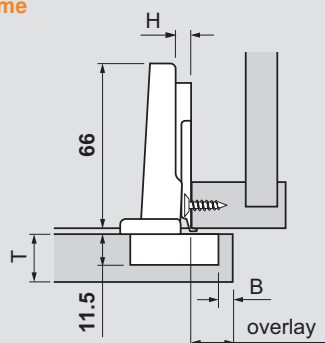
	3	4	5	6	B = boring distance
0.6	1.0	1.3	1.7	2.5	
0.6	1.0	1.3	1.6	2.4	
0.6	1.0	1.2	1.5	2.2	
0.6	1.0	1.2	1.4	2.0	
16	18	19	20	22	

T = door thickness

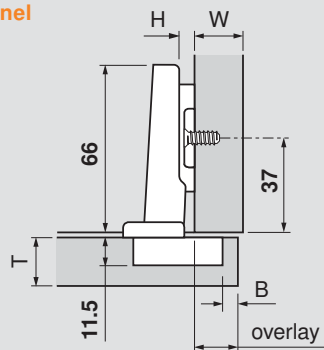
Thickness greater than **22** trial recommended

Overlay

Frame



Panel

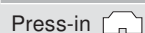


H	Overlay				P	S
0	14	15	16	17	10	21
3	11	12	13	14	13	24
4.5	9.5	10.5	11.5	12.5	14.5	25.5
6	8	9	10	11	16	27
9	5	6	7	8	19	30
	3	4	5	6	Fixed distance = 11	
	B = boring distance					

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

Straight-arm

Self close



75M1580

Abbreviations

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



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

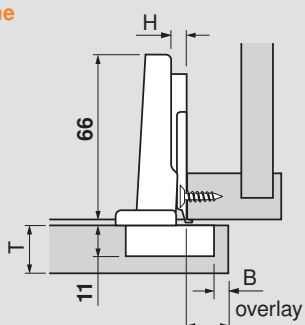
Minimum reveal table

	0.5	0.9	1.1	1.4	2.3	3.6
3	0.5	0.8	1.0	1.3	2.0	3.3
4	0.4	0.8	1.0	1.2	1.8	3.0
5	0.4	0.8	0.9	1.1	1.7	2.8
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						

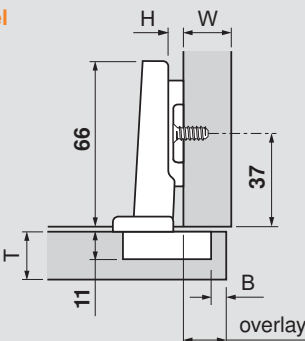
Thickness greater than **24** trial recommended

Overlay

Frame

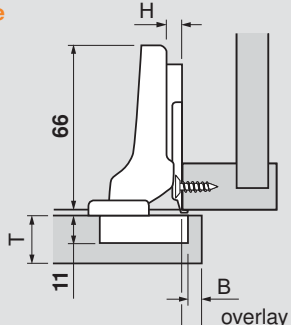


Panel

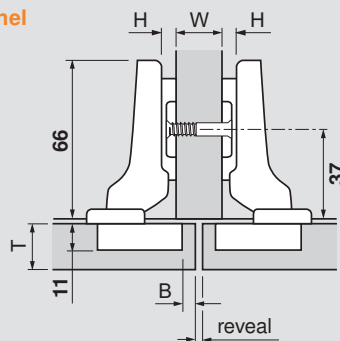


Partial/twin overlay

Frame

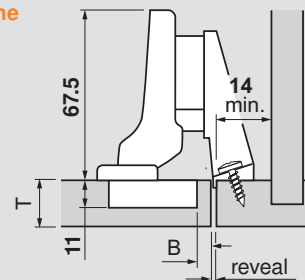


Panel



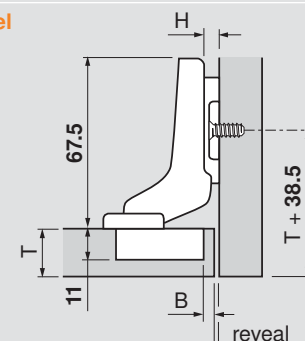
Inset

Frame



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

Panel



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

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


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


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


H	Reveal				P	S
0	4	3	2	1	27	38
	3	4	5	6	Fixed 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	

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 **45**, 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 **46** to **52** are in numerical order and show all the details.

Angled hinges for CLIP top BLUMOTION and CLIP top

Hinges



Positive angle hinges

NOTE: **CLIP top BLUMOTION** **CLIP top**

	Part no.		Part no.		Part no.		Part no.
+15°	79B9494	+20°	79B9595	+30° II*	79B9596	+30° III*	79B9496
+15°	79A9494BT	+20°	79A9595BT	+30° II*	79A9596BT	+30° III*	79A9496BT

	Part no.		Part no.		Part no.	
+45° I*	79B9698	+45° II*	79B3598	+45° III*	79B9498	
+45° I*	79A9698BT	+45° II*	79T5590B	+45° III*	79A9498BT	

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

Negative angle hinges

	Part no.		Part no.		Part no.
-15°	79B3493	-30°	79B3491	-45°	79B3490
-15°	79A5493BT	-30°	79A5491BT	-45°	79A5490BT

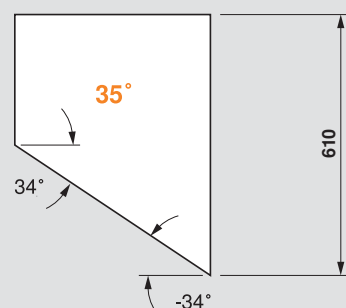
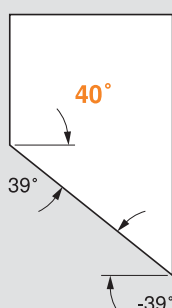
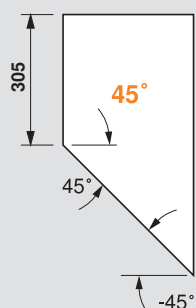
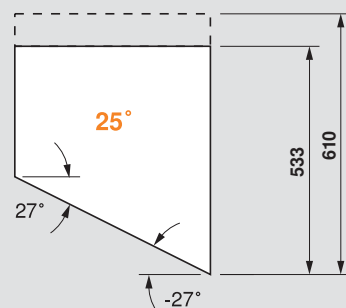
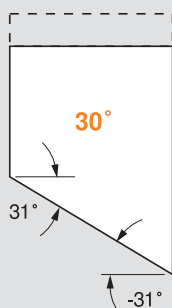
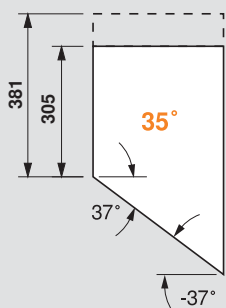
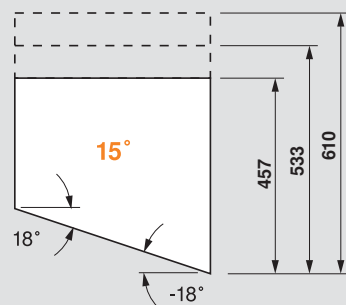
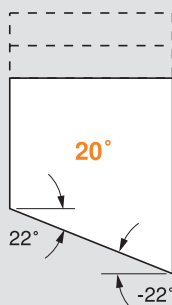
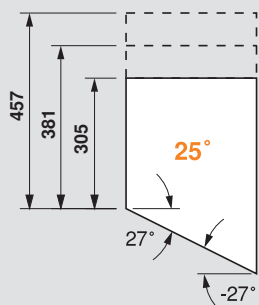
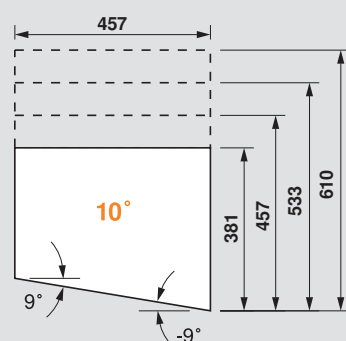
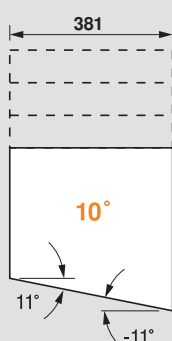
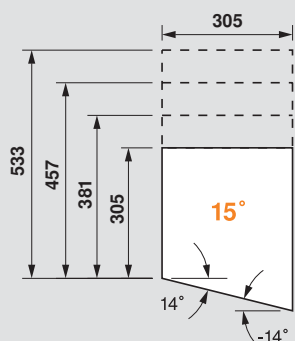
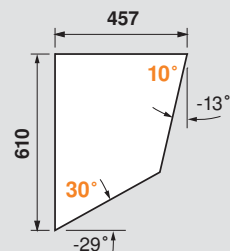
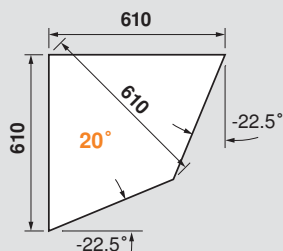
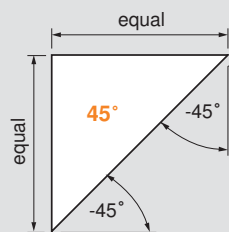
Standard thick door hinges used in angled applications

	Part no.		Part no.		Part no.
95° straight-arm	71B9590	95° half-cranked	71B9690	95° full-cranked	71B9790
95° straight-arm	71T9590B	95° half-cranked	71T9690B	95° full-cranked	71T9790B

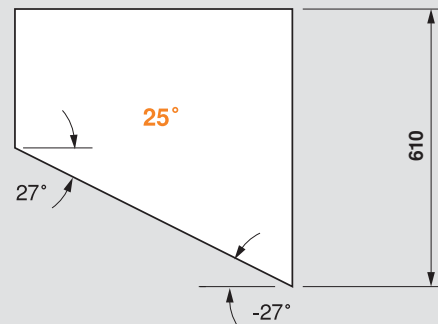
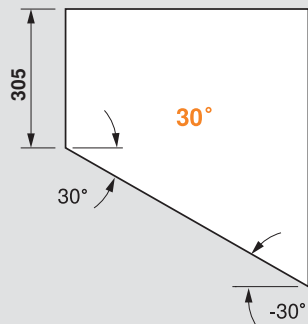
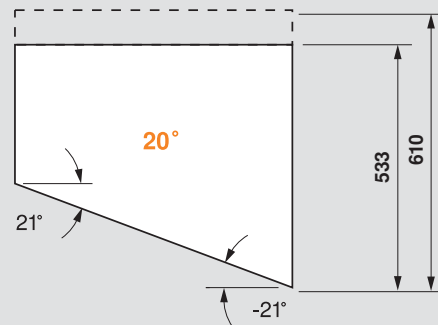
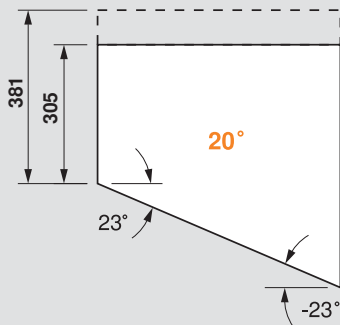
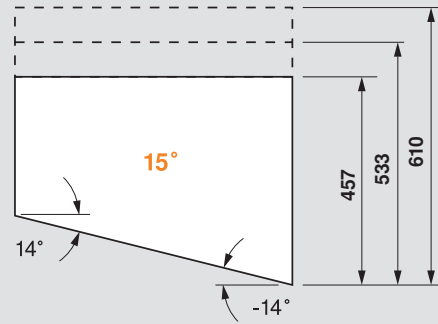
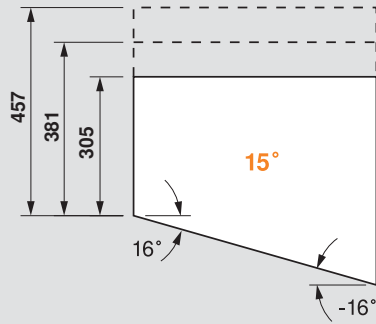
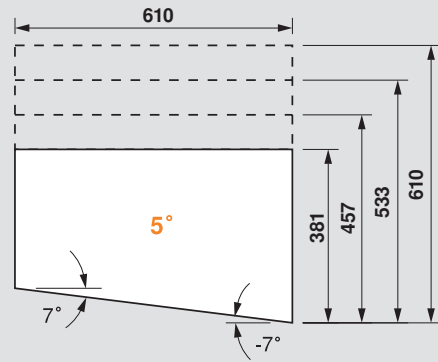
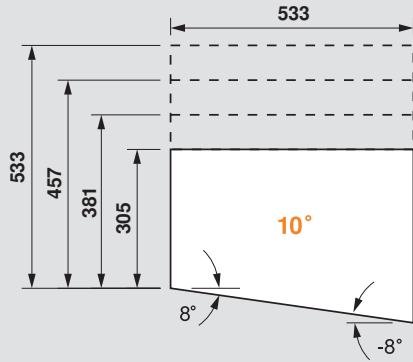
Angled spacer wedges for positive and negative angled hinges

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

Match desired configuration to angle-to-style cross-reference chart on page 45



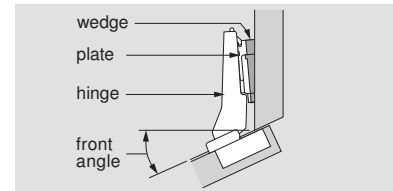
Match desired configuration to angle-to-style cross-reference chart on page 45



Application number

hinge	CLIP top BLUMOTION	Part number
hinge	CLIP top	Part number
plate	Mounting plate	Part number
wedge/spacer	May or may not be required	Part number

NOTE: All 35 mm and 8 mm holes must be a minimum of 13 mm deep



Positive angles

	Maximum overlay	Partial overlay	Corner merge	Inset door	Mitered corner
5°	1	10	19	27	
	71B9590	71B9590	71B9690	71B9790	
	71T9590B	71T9590B	71T9690B	71T9790B	
	173H7100	173H7100	173H7100	173H7100	
	171A5010	171A5010	171A5070	171A5010	
10°	2	11	20	28	
	79B9494	79B9494	79B9494	79B9494	
	79A9494BT	79A9494BT	79A9494BT	79A9494BT	
	173H7100	173H7100	175H9190.22	175H9190.22	
	171A5500	171A5500	171A5500	171A5500	
15°	3	12	21	29	36
	79B9494	79B9494	79B9595	79B9595	79B9595
	79A9494BT	79A9494BT	79A9595BT	79A9595BT	79A9595BT
	175H9160	175H9190	173H7130	175H9190	173H7100
			171A5500	171A5500	171A5500
20°	4	13	22	30	37
	79B9494	79B9595	79B9595	79B9595	79B9595
	79A9494BT	79A9595BT	79A9595BT	79A9595BT	79A9595BT
	173H7100	173H7100	175H9190	175H9190.22	175H9160
	171A5070				
25°	5	14	23	31	38
	79B9496	79B9595	79B9596	79B9596	79B9596
	79A9496BT	79A9595BT	79A9596BT	79A9596BT	79A9596BT
	173H7100	173H7100	173H7100	175H9190.22	173H7100
	171A5500	171A5010	171A5500		171A5500
30°	6	15	24	32	39
	79B9496	79B9596	79B9596	79B9596	79B9596
	79A9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT
	175H9160	173H7100	175H9190	175H9190.22	173H7130
35°	7	16	25	33	40
	79B9496	79B9596	79B9596	79B9596	79B9596
	79B9496BT	79A9596BT	79A9596BT	79A9596BT	79A9596BT
	173H7100	173H7100	173H7100	175H9190.22	173H7100
	171A5070	171A5010	171A5070	171A5010	171A5040
40°	8	17		34	
	79B9498	79B9498		79B9698	
	79A9498BT	79A9498BT		79A9698BT	
	173H7100	175H9160		175H9190	
	171A5500	171A5500		171A5500	
45°	9	18	26	35	41
	79B9498	79B3598	79B9698	79B3598	79B9698
	79A9498BT	79T5590B	79A9698BT	79T5590B	79A9698BT
	175H9160	173H7100	173H7100	175H9190.22	173H7100

Negative angles

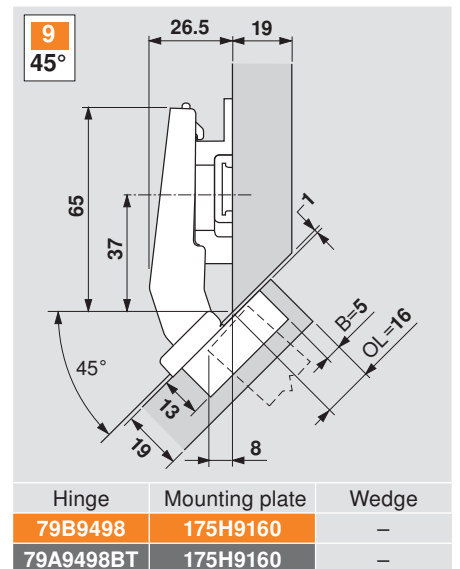
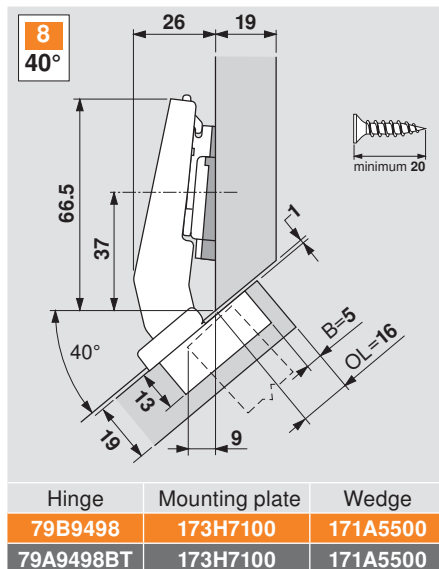
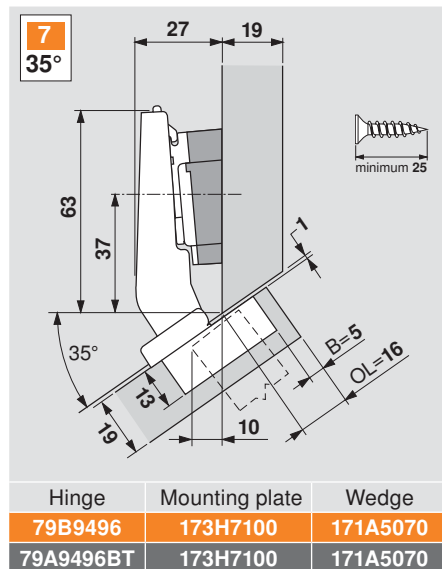
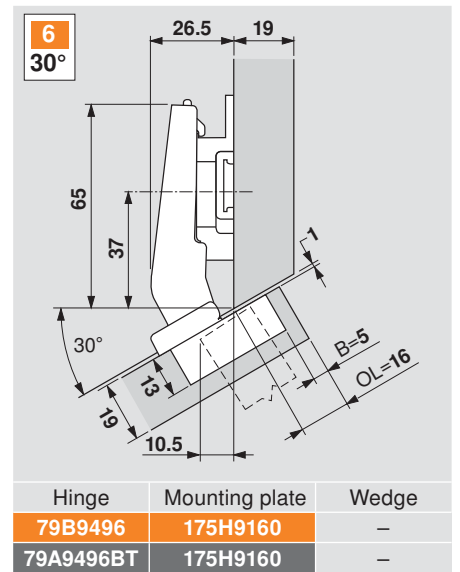
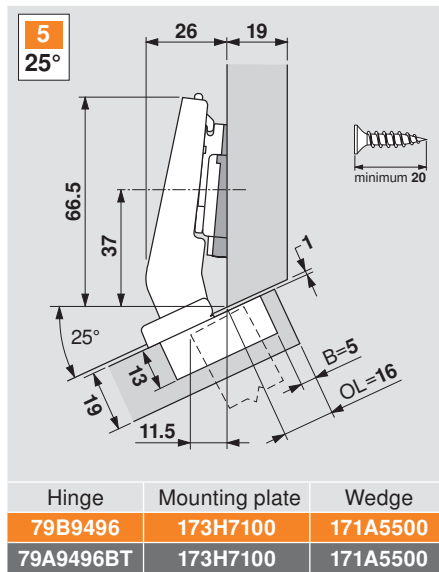
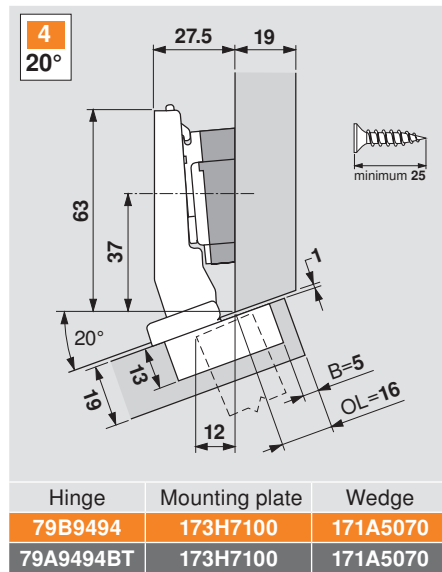
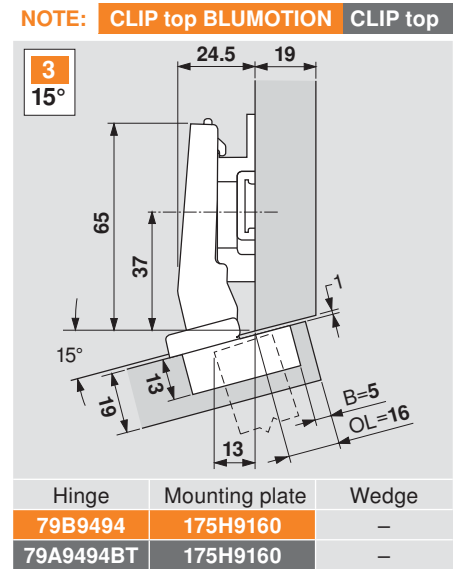
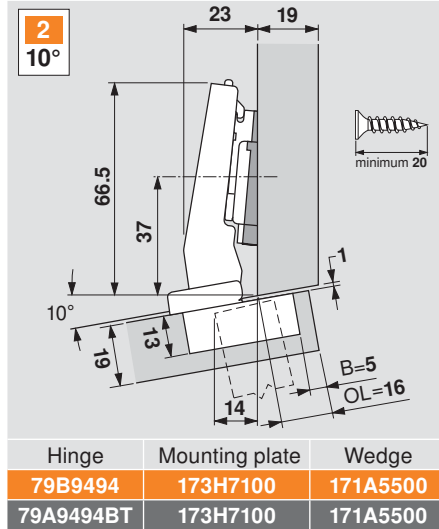
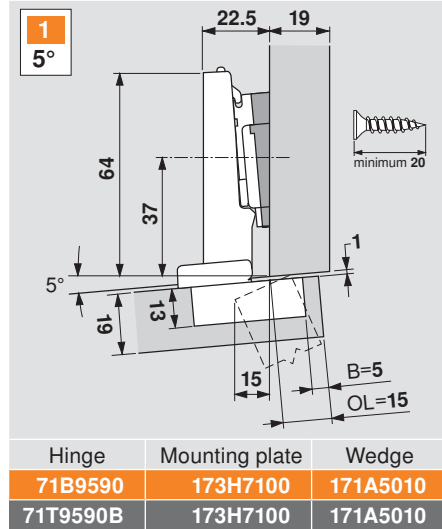
	Maximum overlay	Inset door
-5°	42	51
	71B9590	71B9690
	71T9590B	71T9690B
	173H7100	173H7100
	171A5500	171A5500
-10°	43	52
	79B3493	79B3493
	79A5493BT	79A5493BT
	173H7100	175H7190
	171A5010	171A5010
-15°	44	53
	79B3493	79B3493
	79A5493BT	79A5493BT
	173H7100	175H9190.22
-20°	45	54
	79B3493	79B3493
	79A5493BT	79A5493BT
	173H7100	175H9160
	171A5500	171A5500
-25°	46	55
	79B3491	79B3491
	79A5491BT	79A5491BT
	173H7100	175H7190
	171A5040	171A5070
-30°	47	
	79B3491	
	79A5491BT	
	173H7130	
-35°	48	
	79B3491	
	79A5491BT	
	173H7100	
	171A5500	
-40°	49	
	79B3490	
	79A5490BT	
	173H7100	
	171A5040	
-45°	50	56
	79B3490	79B3490
	79A5490BT	79A5490BT
	173H7130	175H7190
		181.6130

Maximum overlay specifications

Hinges

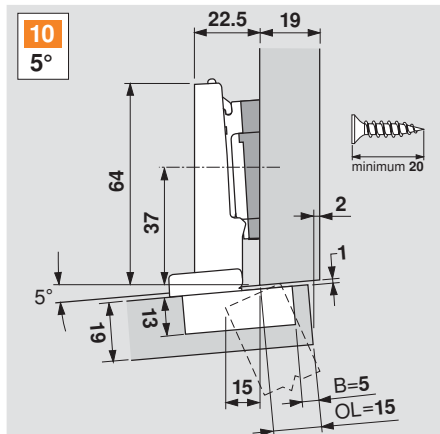


Positive angle applications

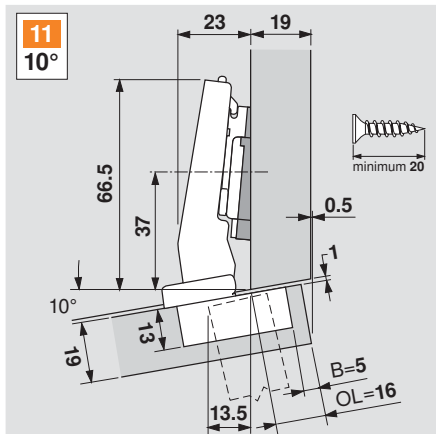


Angled hinges

Positive angle applications

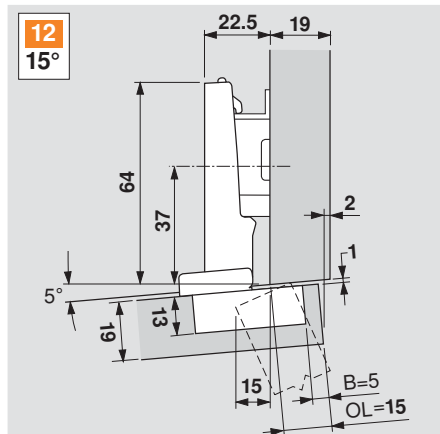


Hinge	Mounting plate	Wedge
71B9590	173H7100	171A5010
71T9590B	173H7100	171A5010

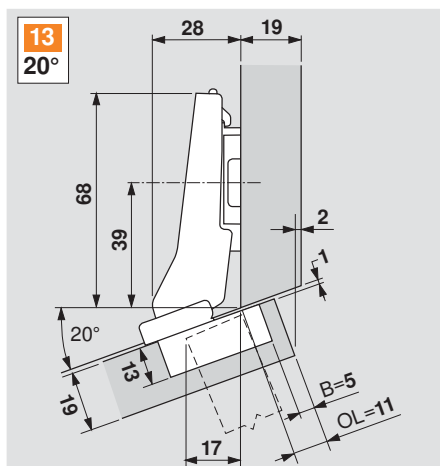


Hinge	Mounting plate	Wedge
79B9494	173H7100	171A5500
79A9494BT	173H7100	171A5500

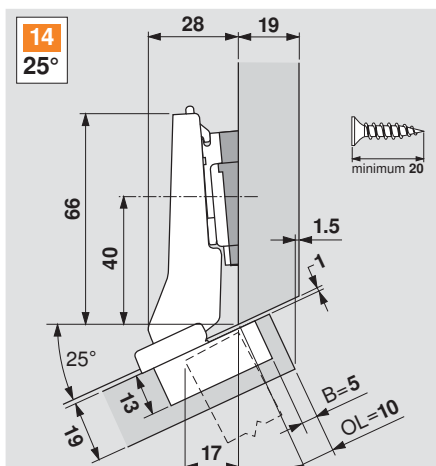
NOTE: CLIP top BLUMOTION CLIP top



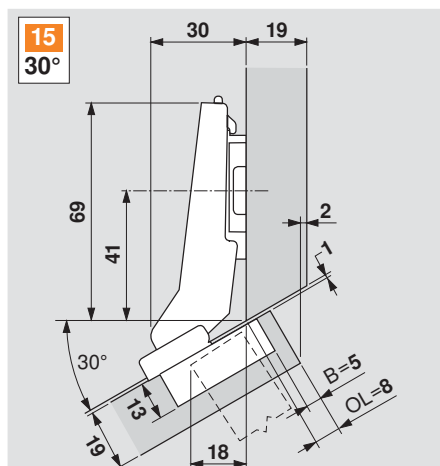
Hinge	Mounting plate	Wedge
79B9494	175H9190	—
79A9494BT	175H9190	—



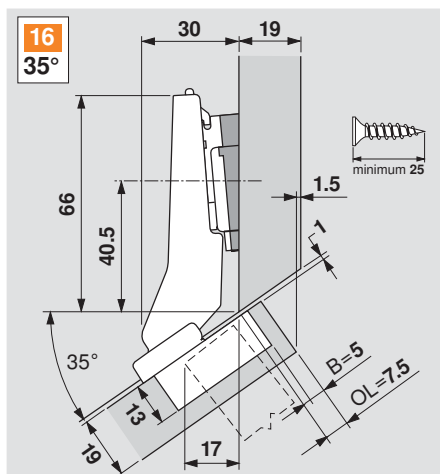
Hinge	Mounting plate	Wedge
79B9595	173H7100	—
79A9595BT	173H7100	—



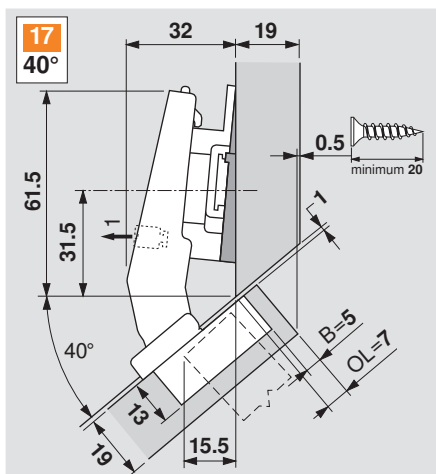
Hinge	Mounting plate	Wedge
79B9595	173H7100	171A5010
79A9595BT	173H7100	171A5010



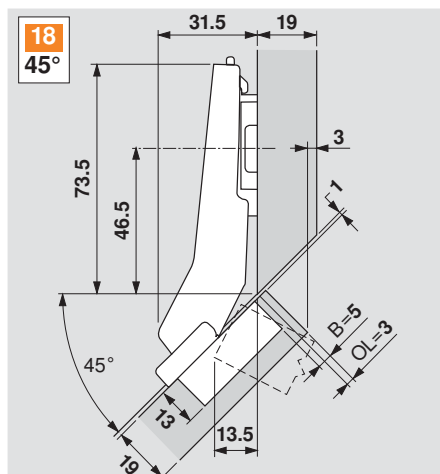
Hinge	Mounting plate	Wedge
79B9596	173H7100	—
79A9596BT	173H7100	—



Hinge	Mounting plate	Wedge
79B9596	173H7100	171A5010
79A9596BT	173H7100	171A5010



Hinge	Mounting plate	Wedge
79B9498	175H9160	171A5500
79A9498BT	175H9160	171A5500



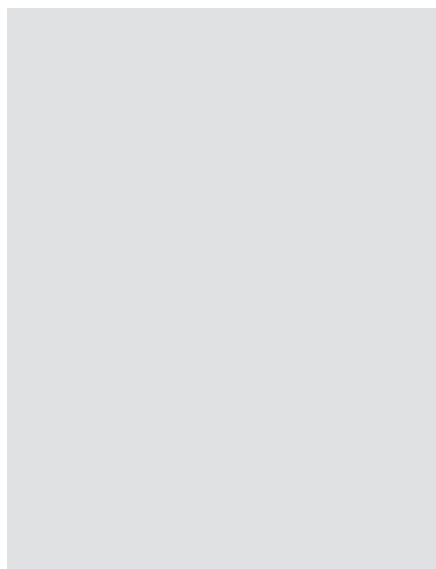
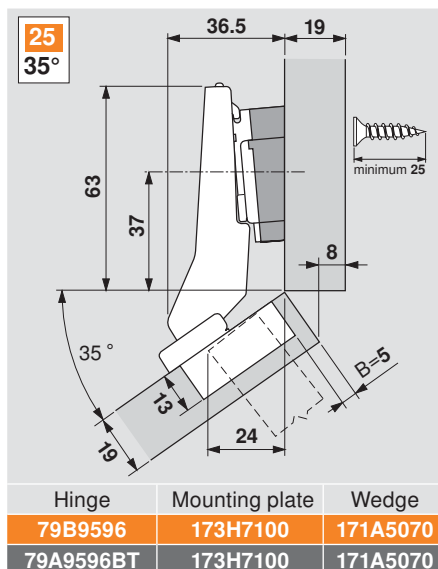
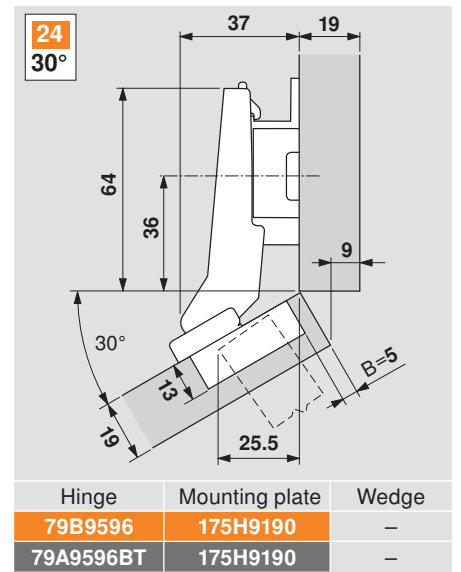
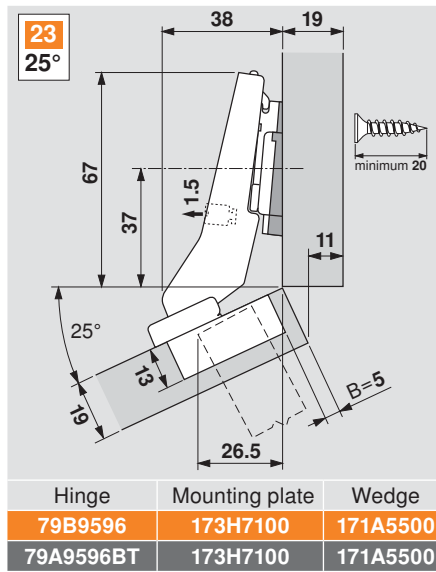
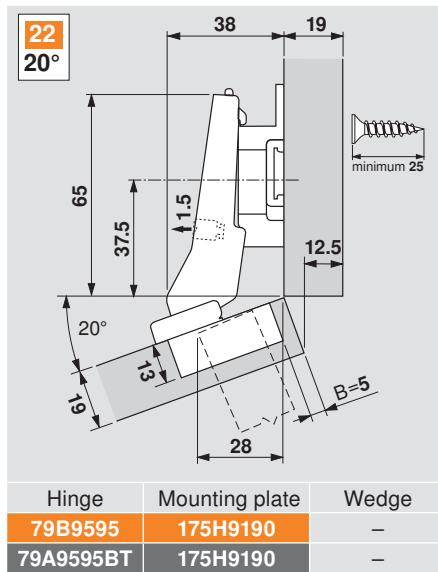
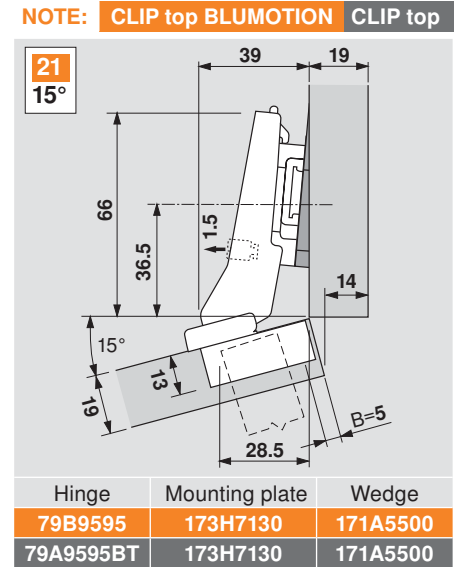
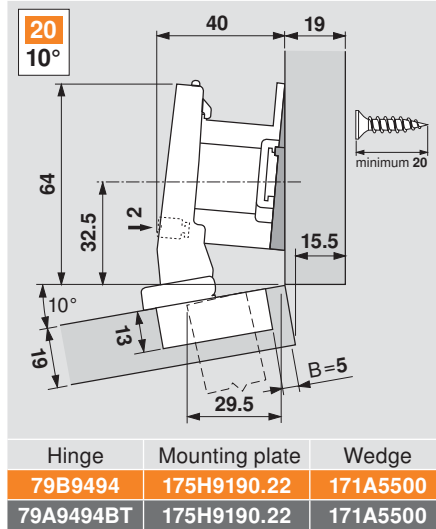
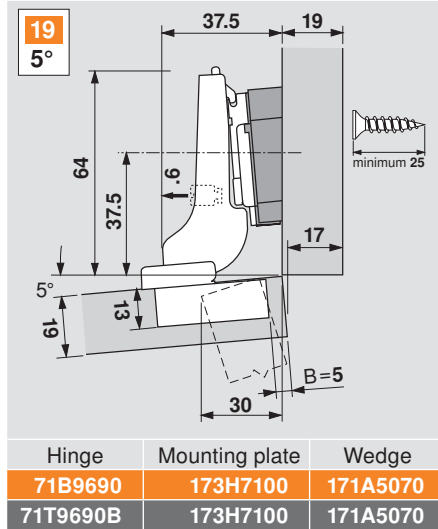
Hinge	Mounting plate	Wedge
79B3598	173H7100	—
79T5590B	173H7100	—

Corner merge specifications

Hinges



Positive angle applications

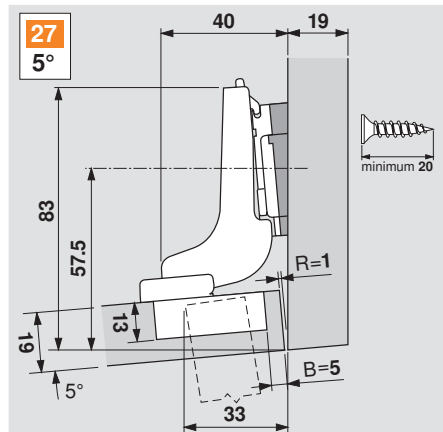


Hinges

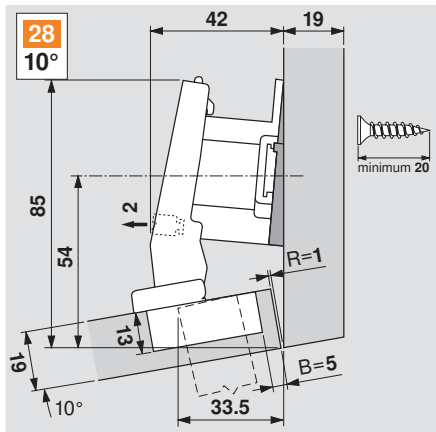


Inset door specifications

Positive angle applications

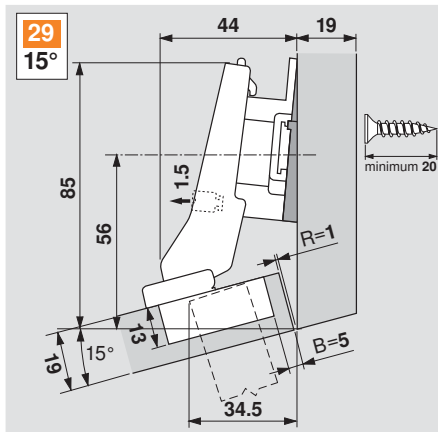


Hinge	Mounting plate	Wedge
71B9790	173H7100	171A5010
71T9790B	173H7100	171A5010

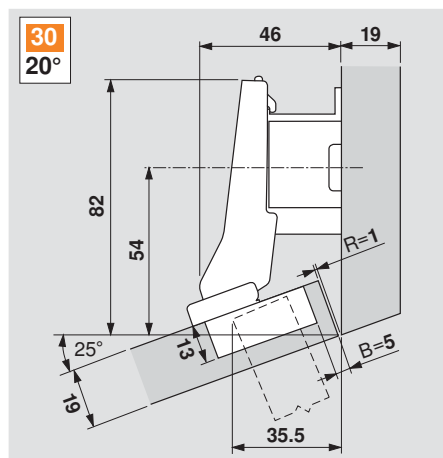


Hinge	Mounting plate	Wedge
79B9494	175H9190.22	171A5500
79A9494BT	175H9190.22	171A5500

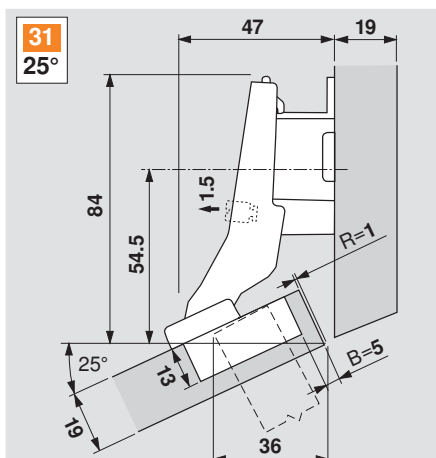
NOTE: CLIP top BLUMOTION CLIP top



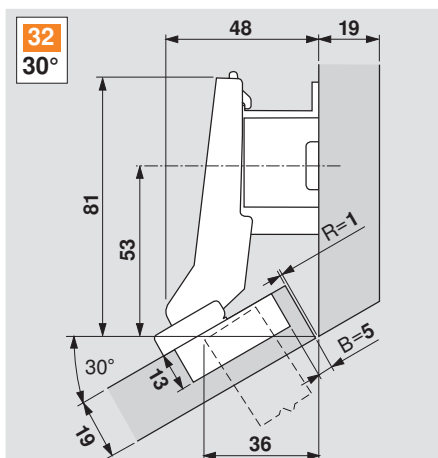
Hinge	Mounting plate	Wedge
79B9595	175H9190	171A5500
79A9595BT	175H9190	171A5500



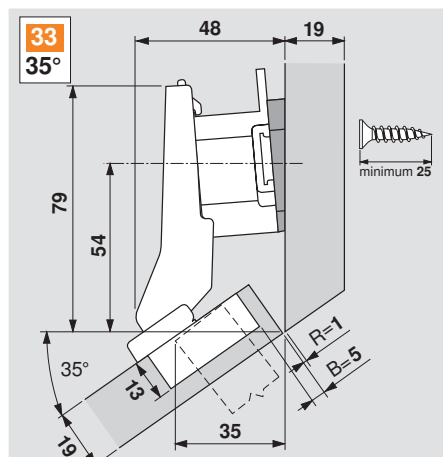
Hinge	Mounting plate	Wedge
79B9595	175H9190.22	-
79A9595BT	175H9190.22	-



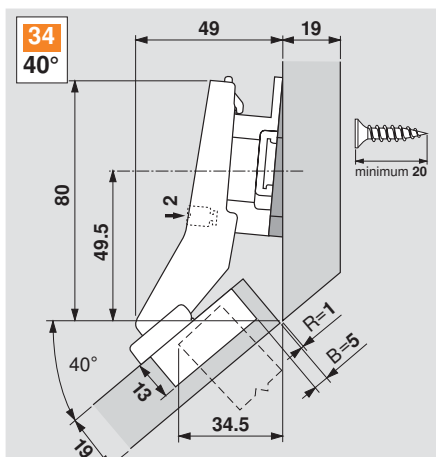
Hinge	Mounting plate	Wedge
79B9596	175H9190.22	-
79A9596BT	175H9190.22	-



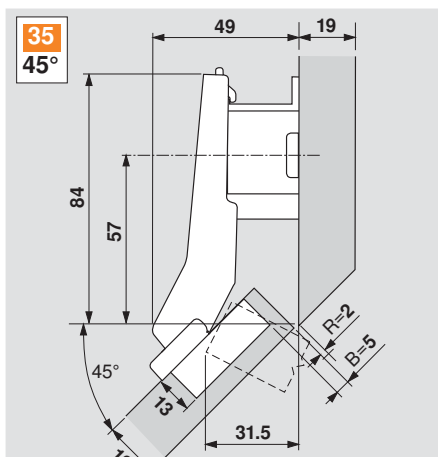
Hinge	Mounting plate	Wedge
79B9596	175H9190.22	-
79A9596BT	175H9190.22	-



Hinge	Mounting plate	Wedge
79B9596	175H9190.22	171A5010
79A9596BT	175H9190.22	171A5010



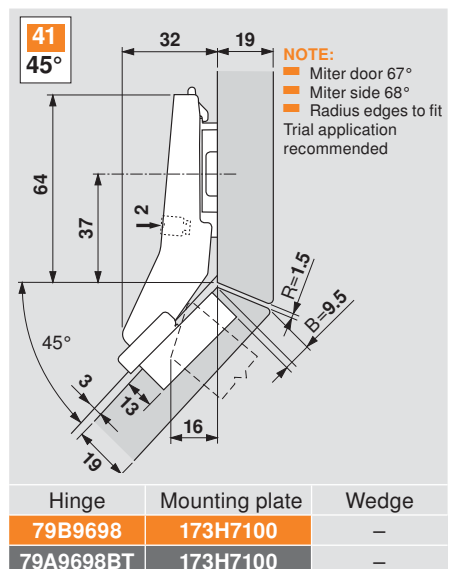
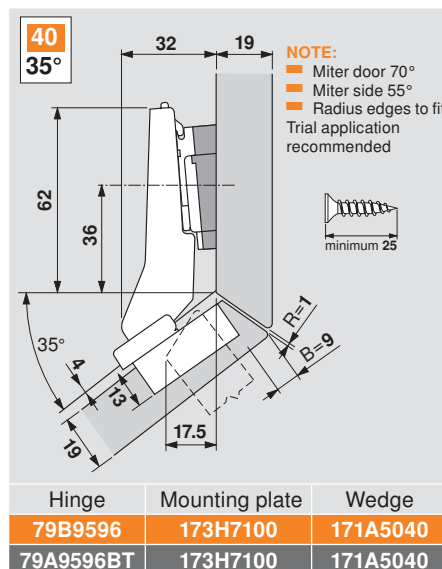
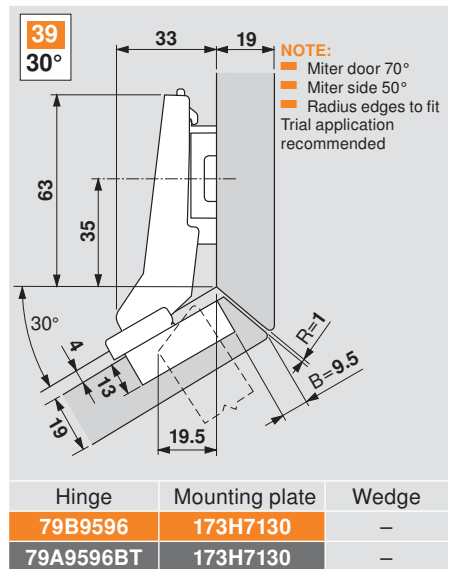
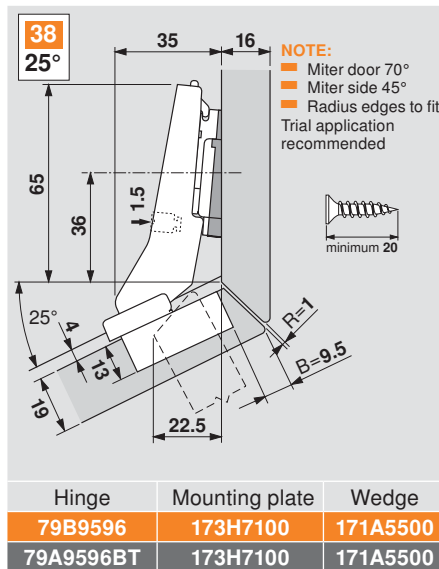
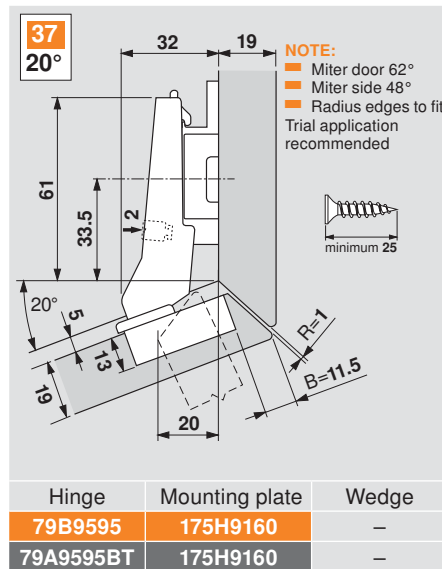
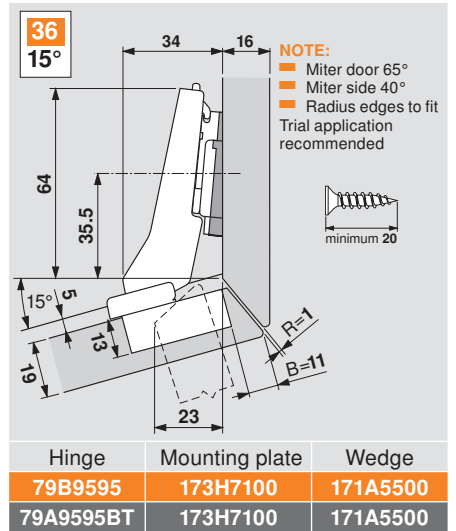
Hinge	Mounting plate	Wedge
79B9698	175H9190	171A5500
79A9698BT	175H9190	171A5500



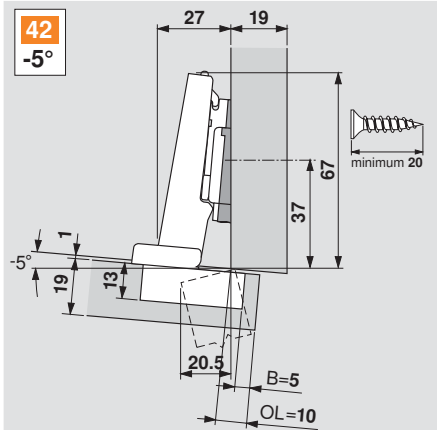
Hinge	Mounting plate	Wedge
79B3598	175H9190.22	-
79T5590B	175H9190.22	-

Hinges

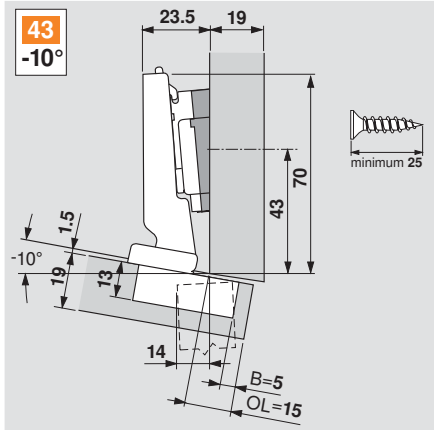
NOTE: CLIP top BLUMOTION CLIP top



Negative angle applications

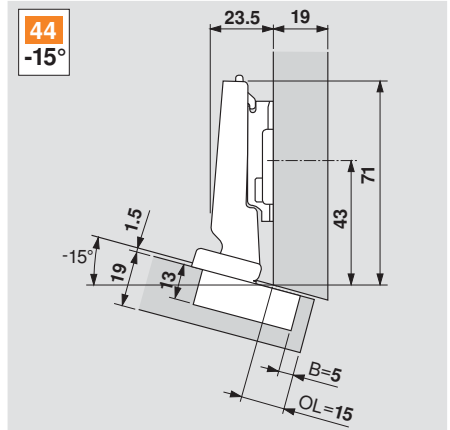


Hinge	Mounting plate	Wedge
71B9590	173H7100	171A5500
71T9590B	173H7100	171A5500

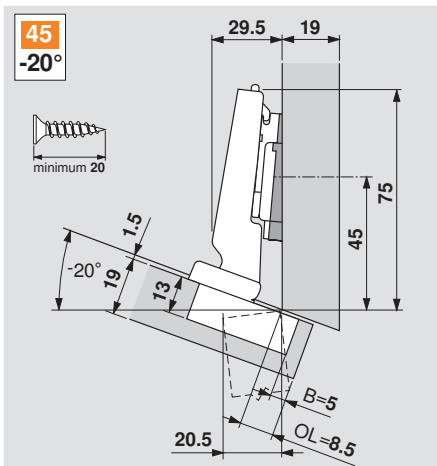


Hinge	Mounting plate	Wedge
79B3493	173H7100	171A5010
79A5493BT	173H7100	171A5010

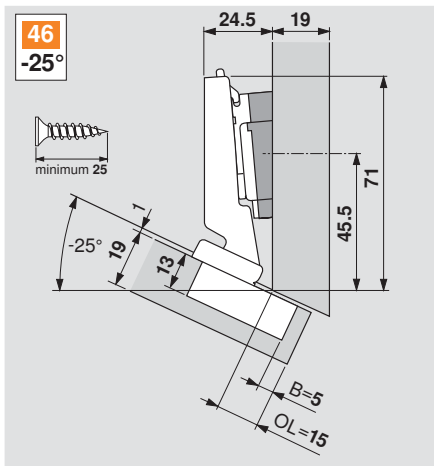
NOTE: CLIP top BLUMOTION CLIP top



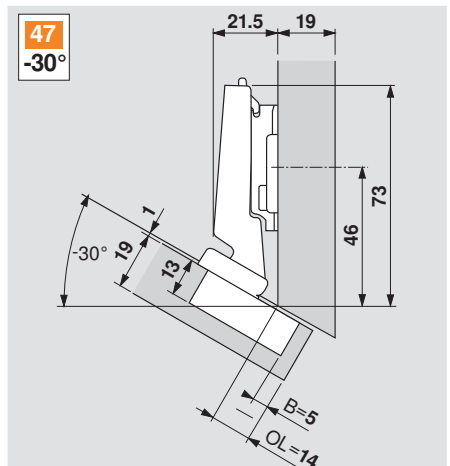
Hinge	Mounting plate	Wedge
79B3493	173H7100	-
79A5493BT	173H7100	-



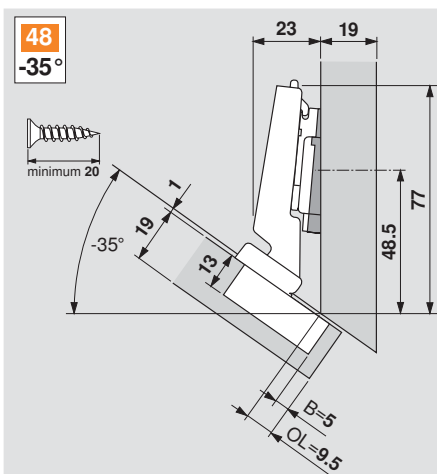
Hinge	Mounting plate	Wedge
79B3493	173H7100	171A5500
79A5493BT	173H7100	171A5500



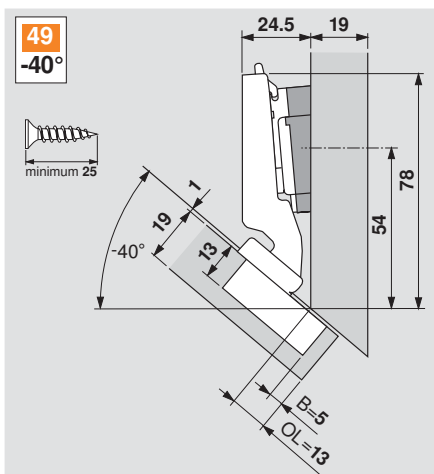
Hinge	Mounting plate	Wedge
79B3491	173H7100	171A5040
79A5491BT	173H7100	171A5040



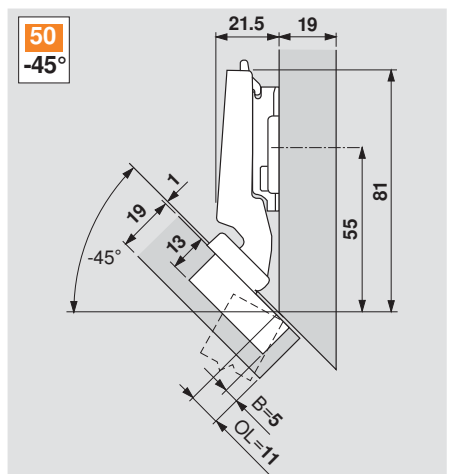
Hinge	Mounting plate	Wedge
79B3491	173H7130	-
79A5491BT	173H7130	-



Hinge	Mounting plate	Wedge
79B3491	173H7100	171A5500
79A5491BT	173H7100	171A5500

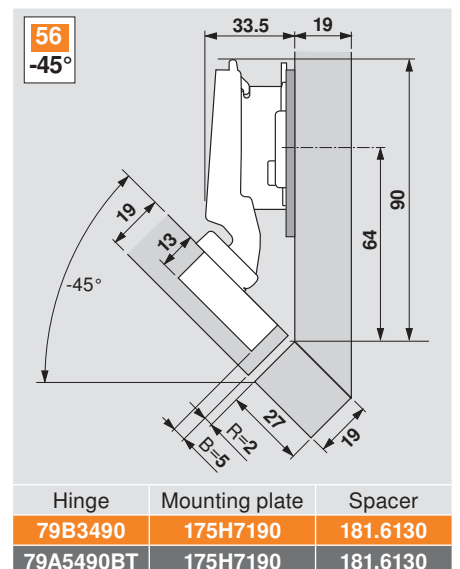
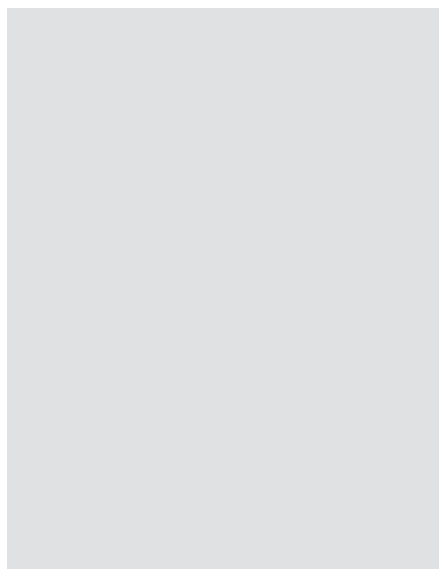
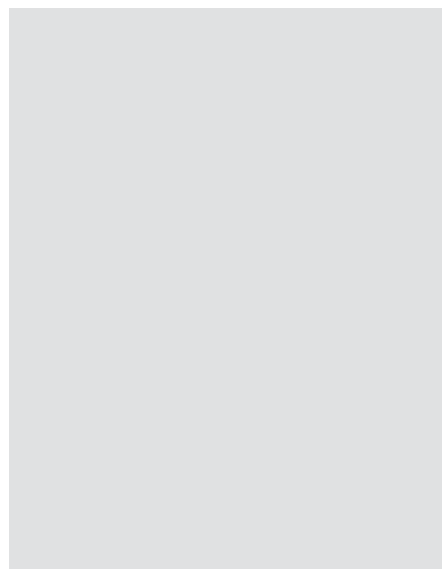
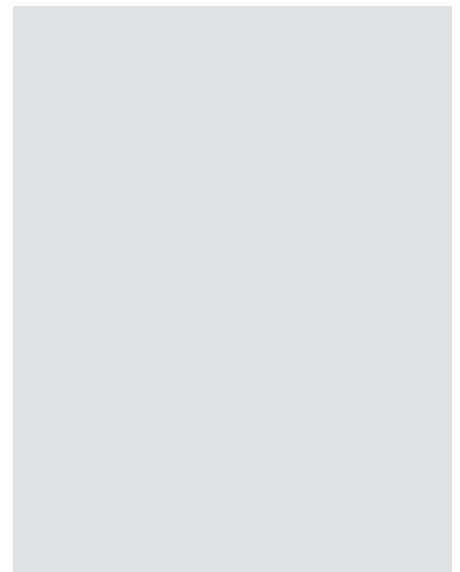
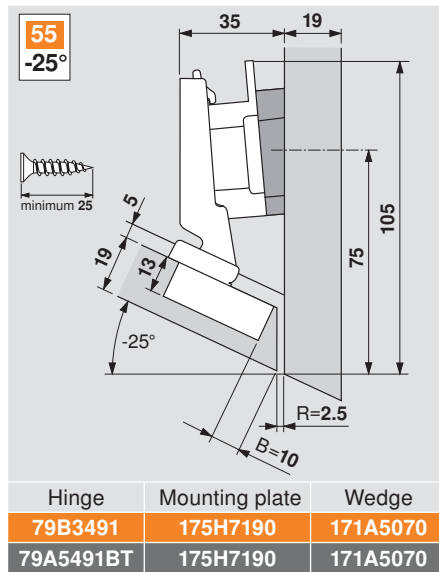
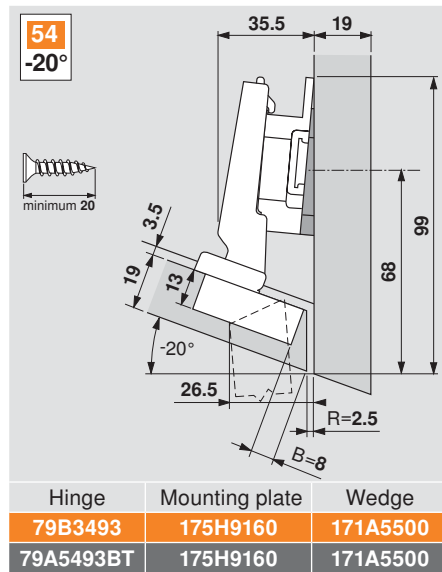
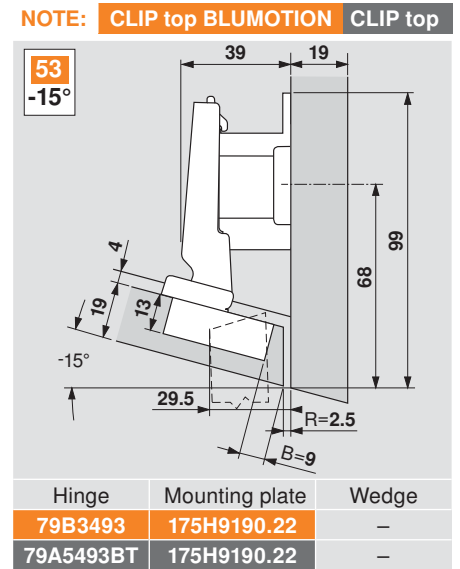
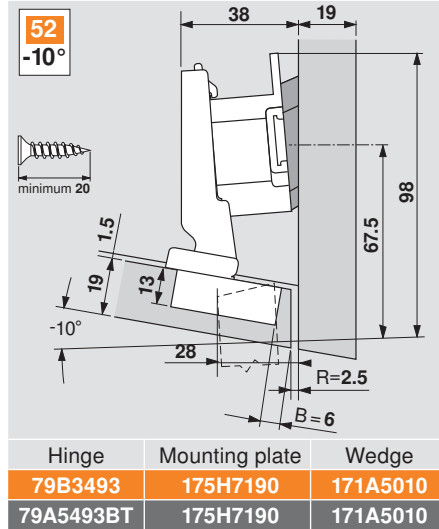
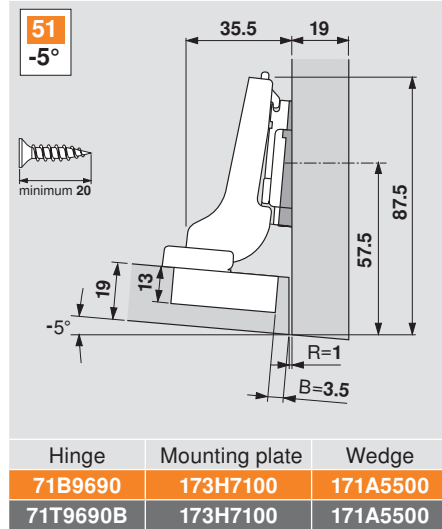


Hinge	Mounting plate	Wedge
79B3490	173H7100	171A5040
79A5490BT	173H7100	171A5040



Hinge	Mounting plate	Wedge
79B3490	175H7130	-
79A5490BT	175H7130	-

Negative angle applications



Hinges



CLIP accessories

Hinge arm cover cap



70.1503



70.1503.BP
(Blum logo)



70.1563



70.1663



70.7503



80.6507



90M2103.01

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

70.1663

Diagonal 45°, blind corner, narrow aluminum door hinges

90M2103.01

70.1503

Angled, mini and glass door hinges with straight or cranked-arms

70.1563

155° hinges

70.7503

170° hinges

80.6507

NOTE: Custom logo cover caps available (minimums apply)

Hinge cup spacer

- 1.5 mm spacer for use under the hinge cup
- Use to retrofit existing doors with a cup depth less than 13 mm
- Gray nylon



Part no.

Hinge cup spacer

70T3507.21

Hinge cup cover cap

- For use with CLIP top BLUMOTION hinges
- Suitable for screw-on, press-in and EXPANDO hinge cups
- Can also be used with CLIP top 110° and 110°+ hinges
- Steel, nickel-plated



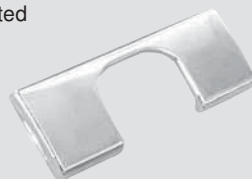
Part no.

Hinge cup cover cap

70T3504

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

3 mm spacer

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

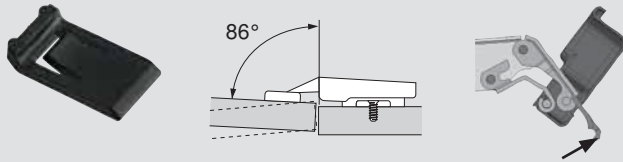


Part no.

3 mm spacer

181.6130

Angle restriction clip for 107° hinges



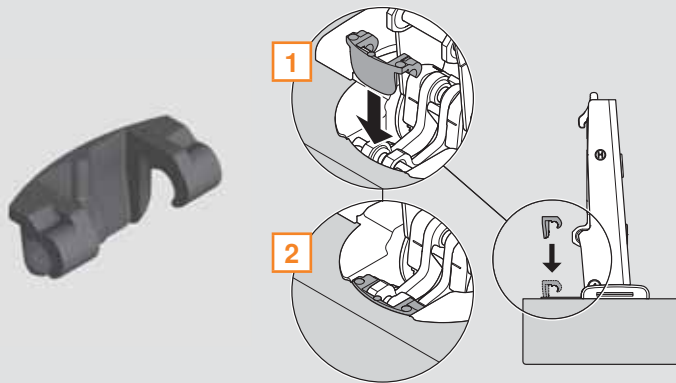
- Reduces opening angle of the CLIP top and CLIP 107° to 86°
- For use with CLIP top and CLIP 107° hinges only
- Installs quickly, easily and tool-free
- Non-removable
- Black nylon

Part no.

86° Angle restriction clip

74.1103

Angle restriction clip for 110° hinges



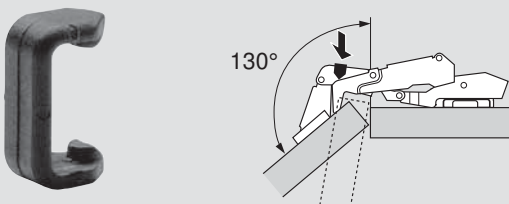
- Reduces opening angle of the CLIP top 110° and 110°+ to 86°
- For use with CLIP top 110° and 110°+ hinges only
- Installs quickly, easily and tool-free either before or after the hinge has been installed
- Black nylon

Part no.

Angle restriction clip

70T3553

Angle restriction clip for 170° hinges



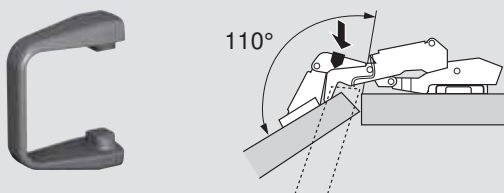
- Reduces opening angle of the CLIP top 170° to 130°
- Required for special applications of the 170° hinge
- Installs quickly, easily and tool-free
- Black nylon

Part no.

130° Angle restriction clip

70.6103

Angle restriction clips for zero protrusion hinges



- Reduces opening angle of CLIP top 155° hinge to 110° or 92°
- For use with 155°/125° hinges only
- Installs quickly, easily and tool-free
- Gray nylon

Part no.

110° for 155° / 92° for 125° Angle restriction clip

70T7503N

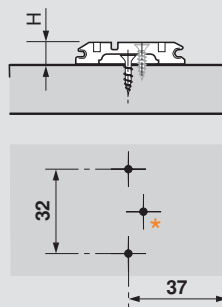
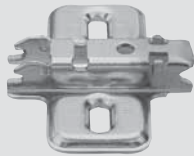
92° Angle restriction clip

70T7503N09

NOTE: Restriction clip 70T7503N provides the 155° hinge with 110° and the 125° hinge with 92°

Standard one-piece wing mounting plates

Wood screw



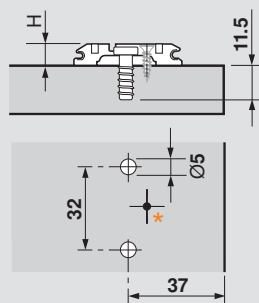
- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 3 mm

Part no.

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

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

System screw



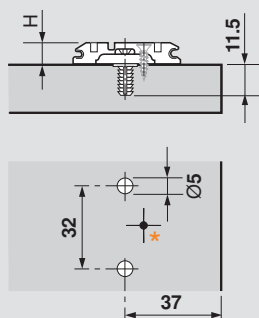
- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment ± 3 mm

Part no.

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

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

EXPANDO

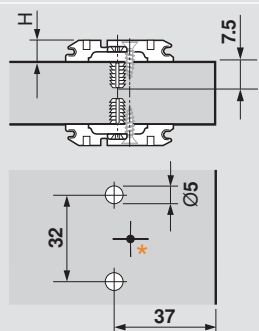


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment ± 2 mm

Part no.

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

EXPANDO (twin application)

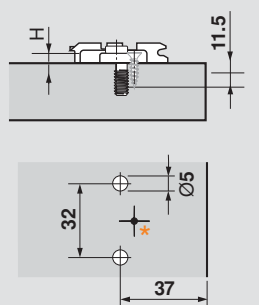


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment ± 2 mm

Part no.

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

System screw



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

Part no.

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

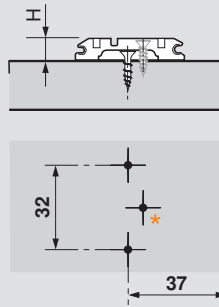
3 plate height (H)	175L8130
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9 plate height (H)	175L8190
--------------------	----------

*Add additional wood screw if used with wide angled hinges

Cam adjustable wing mounting plates

Wood screw



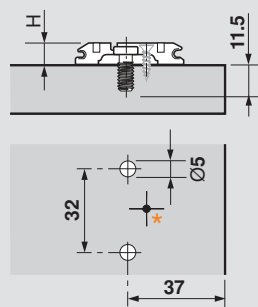
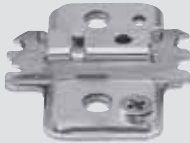
- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	173H7100
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3 plate height (H)	173H7130
--------------------	----------

System screw



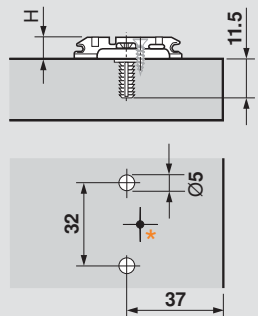
- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or $\varnothing 5 \times 13$ mm system screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	173H9100
--------------------	----------

3 plate height (H)	173H9130
--------------------	----------

EXPANDO



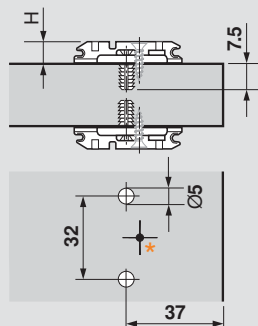
- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	174H7100E
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3 plate height (H)	174H7130E
--------------------	-----------

EXPANDO (twin application)

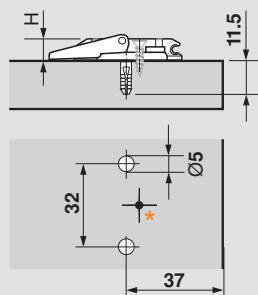


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	174H7102E
--------------------	-----------

INSERTA



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

Part no.

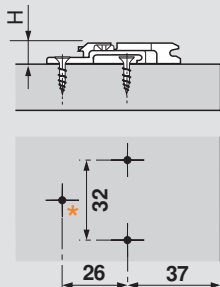
0 plate height (H)	174H7100I
--------------------	-----------

3 plate height (H)	174H7130I
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*Add additional wood screw if used with wide angled hinges

Standard two-piece wing mounting plates

Wood screw

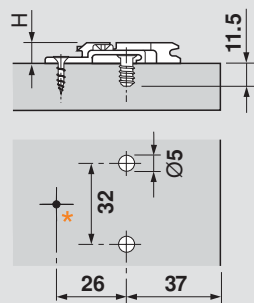


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 2 mm

Part no.

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

System screw



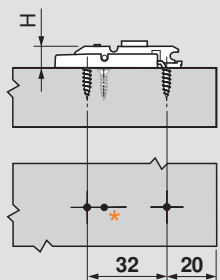
- Zinc die-cast, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Height adjustment ± 2 mm

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

Cam adjustable in-line mounting plates

Wood screw

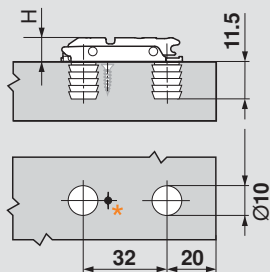


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	175H3100
--------------------	----------

Press-in

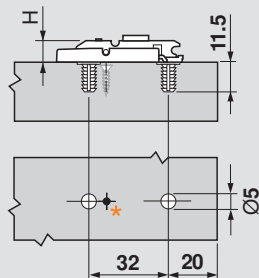


- Steel, nickel-plated
- Pre-attached with 10 mm dowels
- Cam height adjustment ± 2 mm
- Use of insertion ram MZM.0053 required

Part no.

0 plate height (H)	177H3100
--------------------	----------

EXPANDO



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

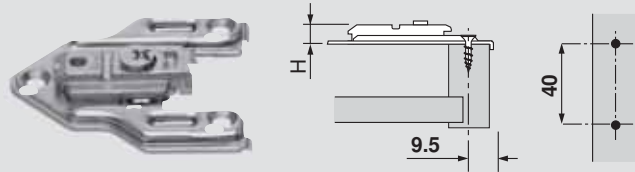
Part no.

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

*Add additional wood screw if used with wide angled hinges

Face frame adapter plates

Cam adjustable center mount



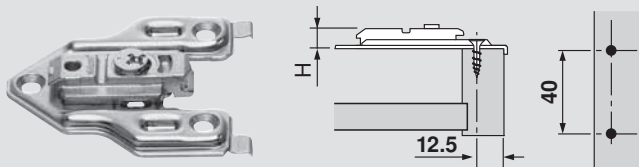
- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Cam height adjustment ± 2 mm
- 175H6000 not for use with INSERTA hinges

Part no.

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

NOTE: CLIP top BLUMOTION and CLIP top 110° INSERTA hinges can be used with this plate

Cam adjustable off-center mount

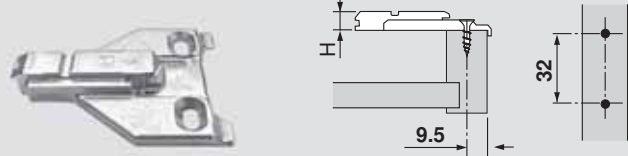


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount 12.5 (1/2")
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	175H6600
--------------------	----------

Center mount

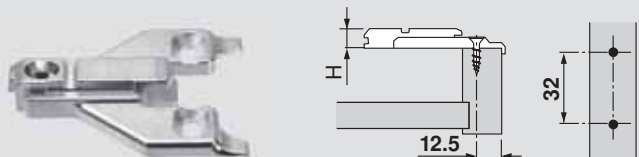


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Height adjustment ± 2 mm

Part no.

3 plate height (H)	175L6030.21
--------------------	-------------

Off-center mount

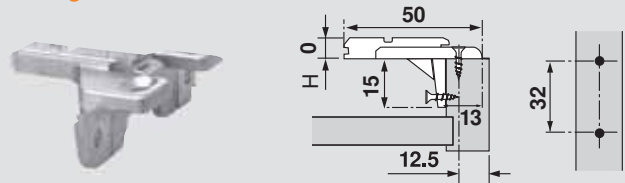


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount 12.5 (1/2")
- Height adjustment ± 2 mm

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 ± 2 mm

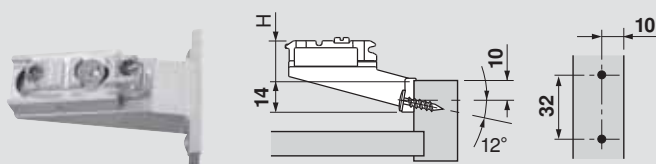
Part no.

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 ± 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
--------------------	-------------

Hinges


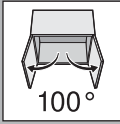
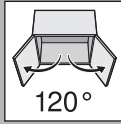
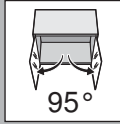
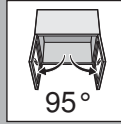
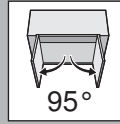
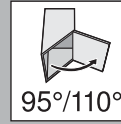


BLUMOTION for doors overview for CLIP hinges

		 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
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
								
		971Axxxx	971Axxxx	971Axxxx	971Axxxx	971Axxxx	971Axxxx	971Axxxx
Partial/twin overlay								
		970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
		Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
Inset			Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate		Half-cranked hinge, 0 plate	Half-cranked hinge, 0 plate
			973A0600		973A0600		973A0600	973A0600
								
		970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Inset		Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate
		973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A0500.01	973A6000	973A0500.01
			Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate		Half-cranked hinge, 9 plate	Half-cranked hinge, 9 plate
			973A0600		973A0600		973A0600	973A0600
Inset			Full-cranked hinge, 0 plate					Full-cranked hinge, 0 plate
			973A0700					973A0700
								
		970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002

Hinges



 155°/125°	 100°	 120°	 95°	 95°	 95°	 95°/110°
Zero protrusion hinges	Standard hinge	Aluminum door hinge	Glass door hinge	Mini hinge	Blind corner hinge – overlay and inset	Angled hinges: +30 II, +45 I, +45 II
Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate				
973A7000	973A0500.01	973A0500.01				
971Axxxx	971Axxxx		971Axxxx	971Axxxx		
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate	Straight-arm hinge, 9 plate				
973A7000	973A0500.01	973A0500.01				
	Half-cranked hinge, 0 plate					
	973A0600					
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002
Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate	Straight-arm hinge, 18 plate				
973A7000	973A0500.01	973A0500.01				
	Half-cranked hinge, 9 plate					
	973A0600					
	Full-cranked hinge, 0 plate					
	973A0700					
970A1002	970A1002	970A1002	970A1002	970A1002	970A1002	970A1002

BLUMOTION
for doors

Hinges

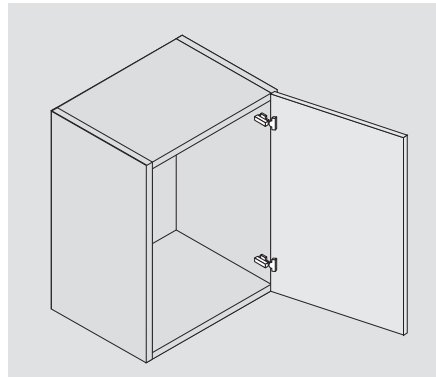


BLUMOTION 973A for CLIP hinges

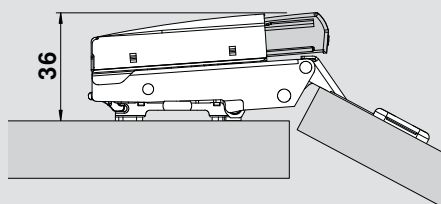


Features

- 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 CLIP hinges only
- Nickel-plated steel and gray nylon



For straight-arm hinges



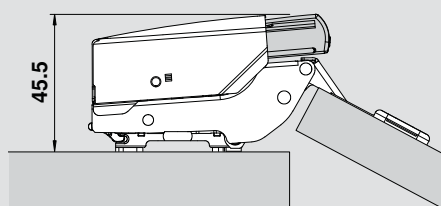
- CLIP top 107°
- CLIP top 110°
- CLIP top 110°+
- CLIP top 120°
- CLIP top 120°+
- CLIP top 95° thick door
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

Part no.

Straight-arm

973A0500.01

For half-cranked arm hinges



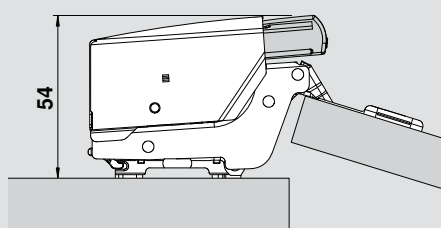
- CLIP top 110°
- CLIP top 120°
- CLIP top 95° thick door
- CLIP 100°

Part no.

Half-cranked arm

973A0600

For full-cranked arm hinges



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

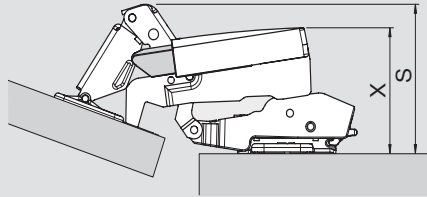
Part no.

Full-cranked arm

973A0700

Specifications

For 170° hinges



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

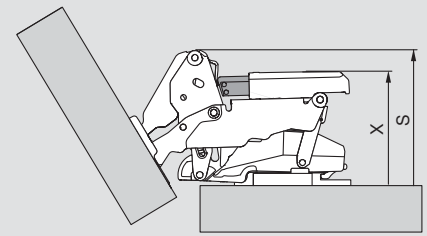
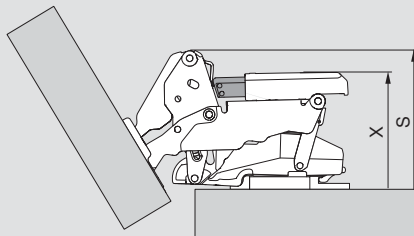
Hinge	X	S
CLIP top 170° straight-arm	49	65 max.
CLIP top 170° half-cranked	68	75 max.

Part no.

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

973A6000

For zero protrusion hinges 155°/125°



CLIP top 155°	X	S	CLIP top 125°	X	S
Straight-arm	53	62	Straight-arm	57	63
Half-cranked	63	72			

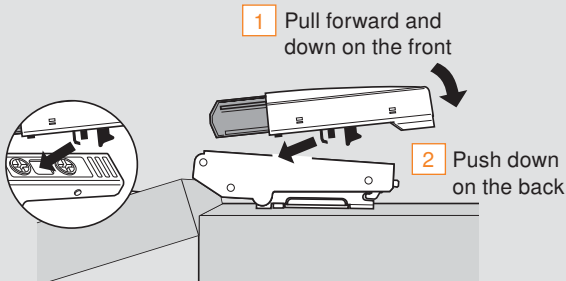
Part no.

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

973A7000

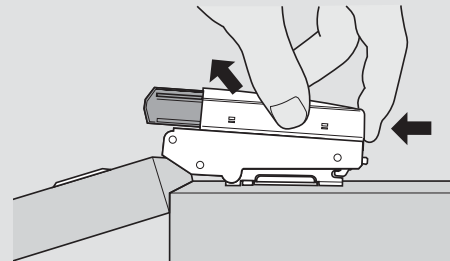
Attachment

Attach to the square hole in the hinge arm



Removal

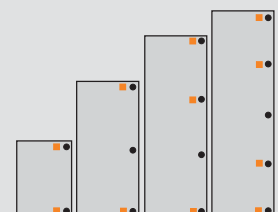
Pull forward and up simultaneously



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



Hinges

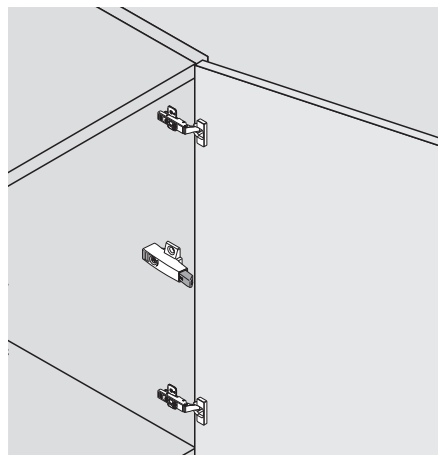


BLUMOTION 971A for CLIP hinges

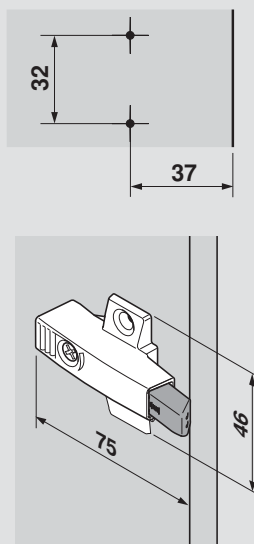


Features

- 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



Wing plate (screw-on)

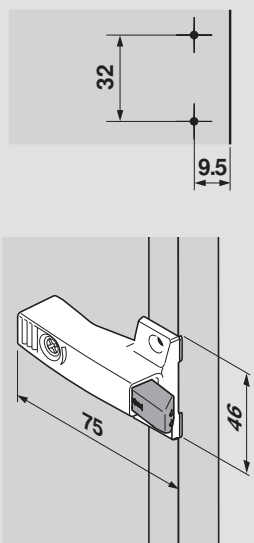


- 37 mm setback, 32 mm apart
- Attach with #6 x 5/8" wood screws
- Nickel-plated steel and gray nylon

Part no.

0 mm	971A0500
Installation screw	606N or 606P

Face frame adapter plate (screw-on)



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



Part no.

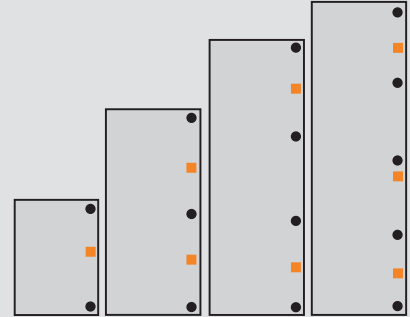
0 mm	971A0700
Installation screw	606N or 606P

Specifications

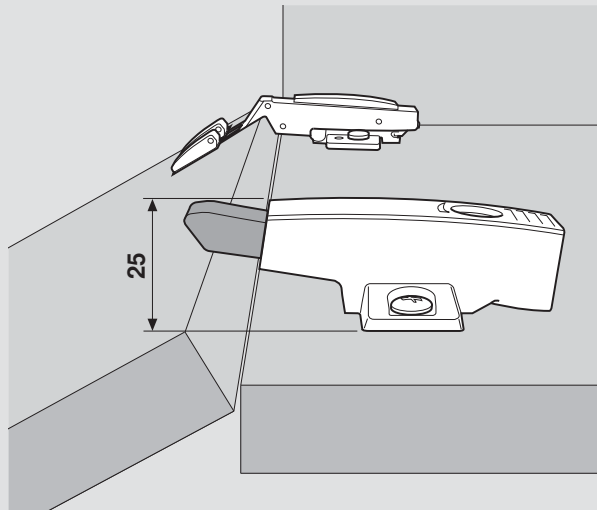
BLUMOTION per door

- 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

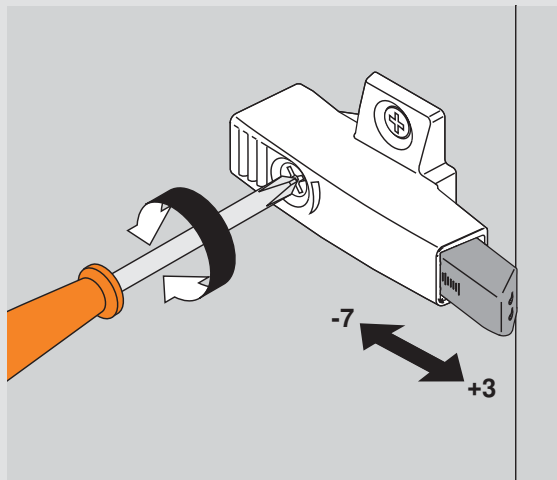
 BLUMOTION 973A
 Hinges

**0 mm BLUMOTION application**

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

**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



Hinges

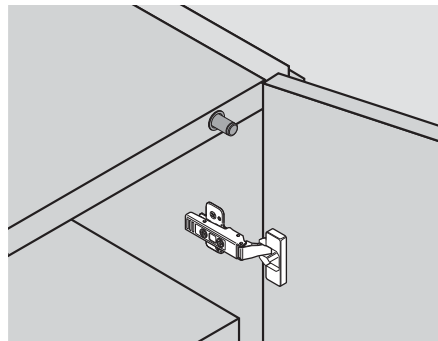


BLUMOTION 970A for CLIP hinges



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
- Installed into the top and/or bottom panel or with adapter plates on hinge-side
- Gray nylon



BLUMOTION 970A



Part no.

BLUMOTION 970A

970A1002

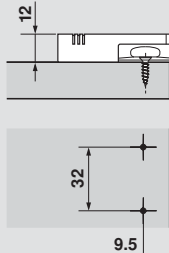
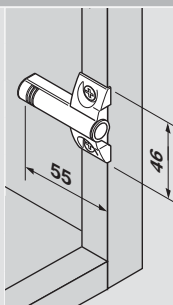
BLUMOTION per door

- 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)

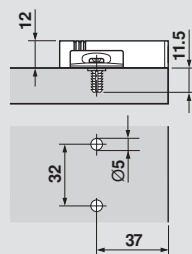
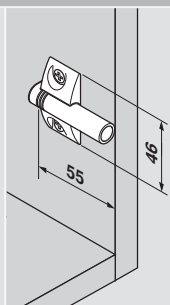


- 9.5 mm setback, 32 mm apart
- Can also be used in panel cabinets
- Attach with #6 x 5/8" wood screws
- Steel, nickel-plated

Part no.

Screw-on	970.5701
Installation screw	606N or 606P

Wing adapter (EXPANDO)

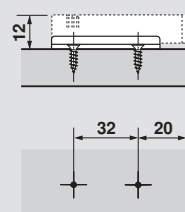
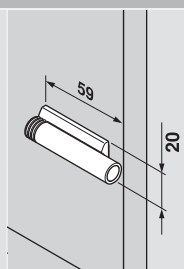


- 37 mm setback, 32 mm apart
- EXPANDO version installs with pre-attached screws
- Steel, nickel-plated

Part no.

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

In-line adapter (screw-on)



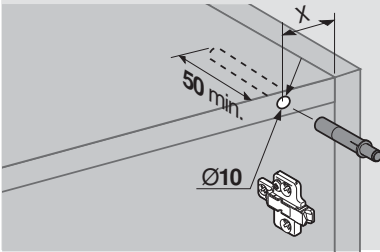
- 20 mm setback, 32 mm apart
- Two-piece design
- Attach with #6 x 5/8" wood screws
- Steel, nickel-plated and gray nylon

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

boring distance (X) in mm



mounting plate height

For angled applications

boring distance (X) in mm



application, refer to pages 45 to 52








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
	3 mm	35	3 mm	44
	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	35
	6 mm	38

Angled applications (reference angle applications page (45 to 52))

	 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		



Mounting

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



Catch plate

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



Hinges

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

TIP-ON for doors

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 top BLUMOTION, CLIP top, CLIP, COMPACT BLUMOTION and COMPACT
- Can be bored into the side panel or used with an adapter plate
- Easy depth adjustment for proper door gap setting
- Works for both overlay and inset applications
- Quick and easy installation
- Increased design options
- Requires minimal force to open and close

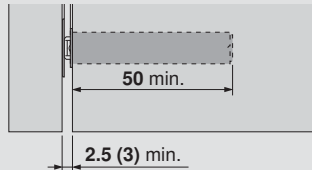
Tool-free door gap adjustment

The adjustment feature (+4/-1 mm) has been incorporated into the TIP-ON unit so even when TIP-ON is inserted into the cabinet, it has an integrated gap adjustment. To adjust gap, turn the ejector pin. The click-stop positions allow you to easily find the right setting.

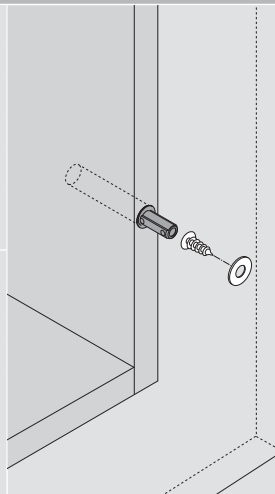
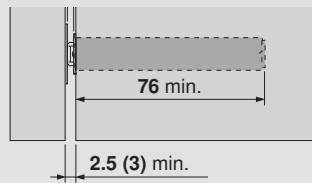


TIP-ON boring specifications

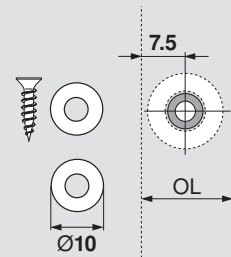
Standard TIP-ON set



Large TIP-ON set



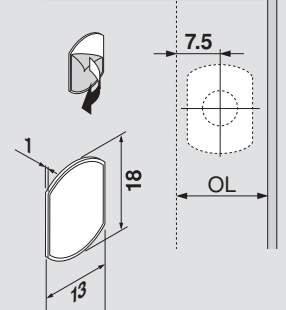
Catch plate (screw-on)



Pre-boring Ø2.5 mm counter-sunk pilot holes required

OL = Door overlay

Catch plate (self-adhesive)

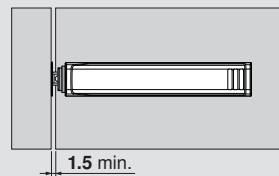


Cleaning of the door surface is recommended

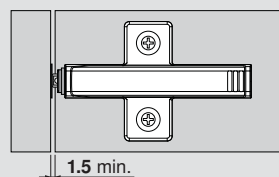
NOTE: Minimum gap of 3 mm with a screw-on catch plate and 2.5 mm with a self-adhesive catch plate

TIP-ON in-line and wing adapter plate specifications

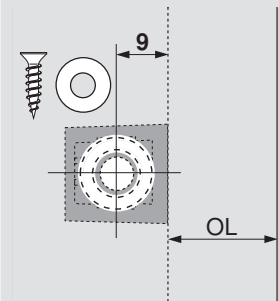
In-line adapter plate



Wing adapter plate

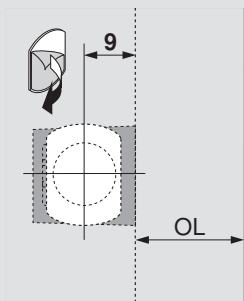


Catch plate (screw-on)



Pre-boring Ø2.5 mm counter-sunk pilot holes required
OL = Door overlay

Catch plate (self-adhesive)



Cleaning of the door surface is recommended

Installation position



Optimal opening support is achieved if the TIP-ON unit is attached exactly where the handle would be.

The fixing position can deviate ±12" in height and up to a quarter of the cabinet width in terms of width.

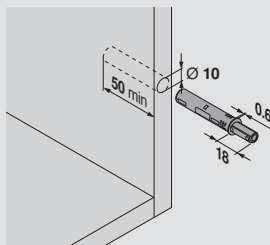
NOTE: Factory setting of door gap is 2 mm

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

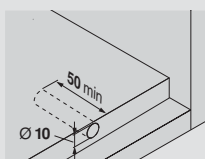
TIP-ON set for standard doors



Overlay



Inset



- Nylon gray mechanism with magnet tip
- Adjustment range +4 mm to -1 mm
- For use with Blum Euro free swing hinges
- For door heights less than 48"
- Works for overlay and inset applications
- Can be bored into the panel or used with an adapter plate

Set includes:

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

Part no.

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

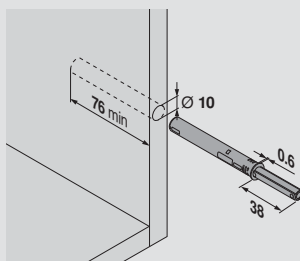
Standard door set

956.1004

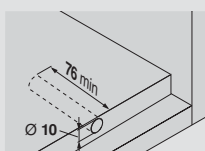
TIP-ON set for large doors



Overlay



Inset



- Nylon gray mechanism with magnet tip
- Adjustment range +4 mm to -1 mm
- For use with Blum Euro free swing hinges
- For door heights greater than 48"
- Works for overlay and inset applications
- Can be bored into the panel or used with an adapter plate

Set includes:

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

Part no.

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

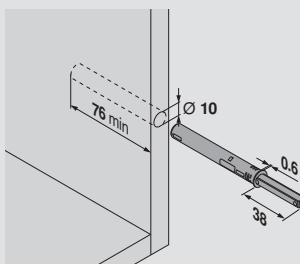
Large door set

956A1004

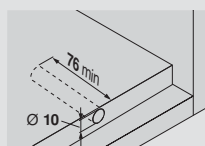
TIP-ON for self close hinges



Overlay



Inset



- Nylon gray mechanism with bumper tip
- Adjustment range +4 mm to -1 mm
- For use with Blum Euro self close hinges
- For door widths greater than 10"
- Works for overlay and inset applications
- Can be bored into the panel or used with an adapter plate

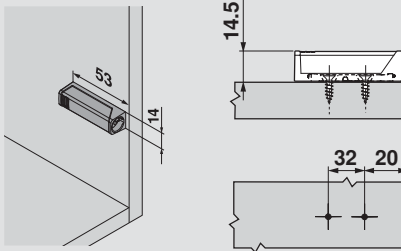
Part no.

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

Self close hinges

956A1006

TIP-ON in-line adapter plate for standard doors



- In-line adapter plate for standard doors
- Two-piece, screw-on base plate
- 20 mm setback, 17 mm apart
- Door gap factory setting 2 mm
- Gray nylon

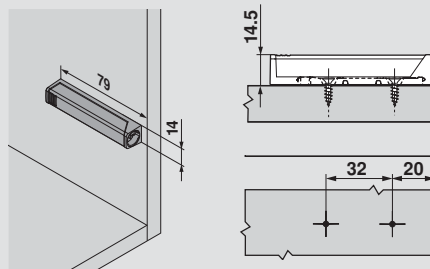
Application	Setback
Overlay	20
Inset	22 + door thickness

Part no.

Screw-on in-line adapter	956.1201
Installation screw	606N or 606P

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

TIP-ON in-line adapter plate for large doors



- In-line adapter plate for larger doors
- Two-piece, screw-on base plate
- 20 mm setback, 32 mm apart
- Door gap factory setting 2 mm
- Gray nylon

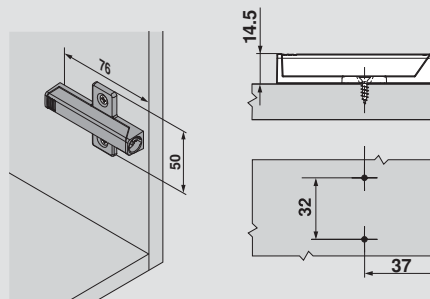
Application	Setback
Overlay	20
Inset	22 + door thickness

Part no.

Screw-on in-line adapter	956A1201
Installation screw	606N or 606P

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

TIP-ON wing adapter plate for large doors



- Wing adapter plate for large doors
- One-piece, screw-on wing plate
- 37 mm setback, 32 mm apart
- Door gap factory setting 2 mm
- Gray nylon

Application	Setback
Overlay	37
Inset	39 + door thickness

Part no.

Screw-on wing adapter	956A1501
Installation screw	606N or 606P

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

COMPACT BLUMOTION and COMPACT hinges A complete face frame program

Blum's COMPACT hinges program has proven itself as the high quality solution for face frame cabinets for over 30 years and continue to provide the quality of motion you have come to expect from Blum hardware.

COMPACT BLUMOTION hinges have the soft closing mechanism integrated directly in the hinge cup. They are available for most overlay face frame applications or door styles.



Deactivation option

The BLUMOTION function can be easily deactivated on one of the hinges, allowing small or light doors to close with the same high quality of motion.



Interchangeability

COMPACT BLUMOTION hinges are interchangeable with current COMPACT hinges so there is no need to change existing setups or workflows.



Overload safety feature

This feature protects the hinge from damage if the door is slammed and maintains the BLUMOTION soft closing for the life of the hinge.

Hinges



COMPACT BLUMOTION and COMPACT hinges overview



38N COMPACT BLUMOTION hinges for partial overlay

Partial overlay hinges with a 105° opening angle and 7/16" cup depth



39C/38C COMPACT BLUMOTION hinges for full overlay

39C: Full overlay hinges with a 110° opening angle and 1/2" cup depth

38C: Full overlay hinges with a 107° opening angle and 7/16" cup depth



38B COMPACT BLUMOTION face mount hinges for full overlay

Full overlay face mount hinges with a 107° opening angle and 7/16" cup depth



38N COMPACT hinges for partial overlay

Partial overlay hinges with a 105° opening angle and 7/16" cup depth



39C/38C COMPACT hinges for full overlay

39C: Full overlay hinges with a 110° opening angle and 1/2" cup depth

38C: Full overlay hinges with a 107° opening angle and 7/16" cup depth



COMPACT 33 hinges for partial and full overlay


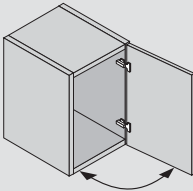
Economical two-piece assembly hinges with a 110° opening angle and 1/2" cup depth


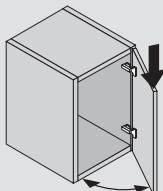
Conditions for tests


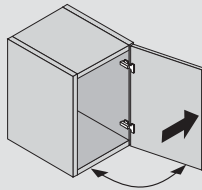
Blum, Inc. does a great deal of testing to ensure that the quality of our hardware is consistent with the usual high standards that our customers have come to expect from Blum. For this reason we have rigorous testing procedures which are carried out from the development stage through production. Blum's internal testing standards are based on practical applications of our products and are more stringent than what is required by ANSI/BHMA.

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

Cycle test	
Specifications	<ul style="list-style-type: none"> Door size – 23-5/8" height, 23-5/8" width, 3/4" thickness Door weight –14.3 lb for cycle tests Door weight – 18.5 lb for load and over push tests Boring distance – 3 mm
Distance between hinges	<ul style="list-style-type: none"> 16-15/16"
Hinge and mounting plate attachment	<ul style="list-style-type: none"> Hinges are mounted to test blocks and attached to test door and stand with clamps Test blocks for door: Particle board Test blocks for mounting plate: Particle board

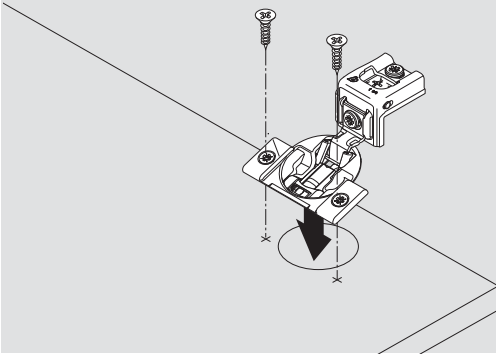
Cycle test			
	Without load <ul style="list-style-type: none"> 100,000 opening and closing for all COMPACT 		With load <ul style="list-style-type: none"> 11 lb extra weight is applied for 100,000 opening and closing cycles
	Positive test result		Positive test result

Load test			
	Static load <ul style="list-style-type: none"> 67 lb applied ten times for five seconds, each at 45° opening angle 		Dynamic load <ul style="list-style-type: none"> 44 lb extra weight applied for fifty opening and closing cycles
	Positive test result		Positive test result

Over push test		
	Without load <ul style="list-style-type: none"> COMPACT hinges – Increasing forces up to 11 lb applied for a total of forty times for five seconds each 	
	Positive test result	

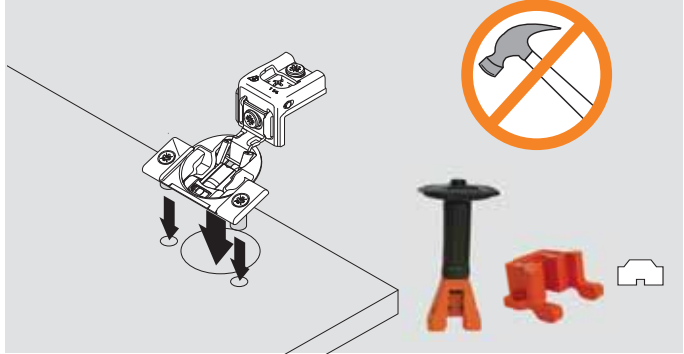
Screw-on

Use #6 wood screws



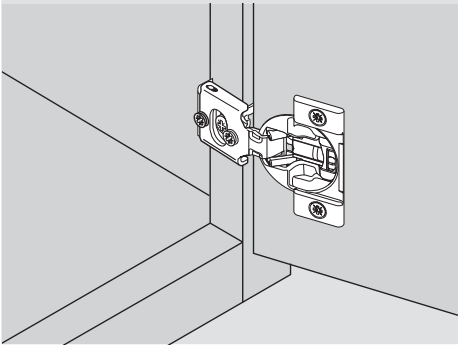
Press-in

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

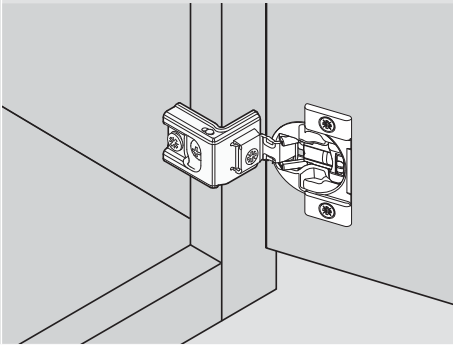


Mounting plate attachment

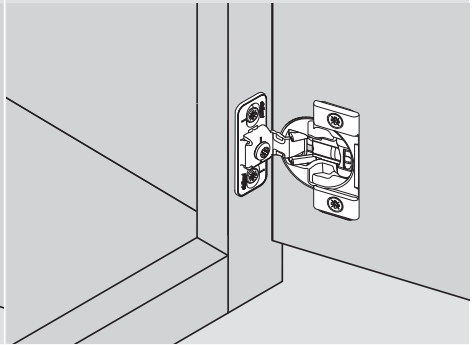
38N series – wraparound/edge mount



39C/38C series – wraparound



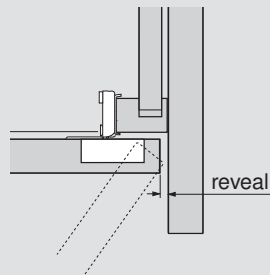
38B series – face mount



Minimum reveal

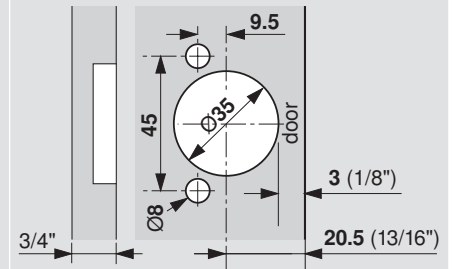
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness.

See minimum reveal table for each hinge.



Hinge cup centerpoint

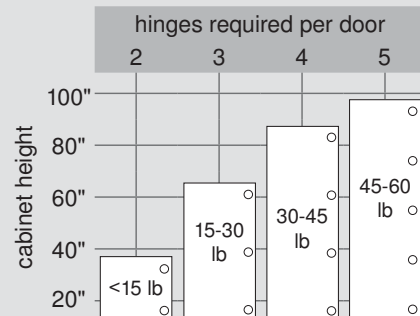
Hinge cup centerpoint and MINIPRESS/ MINIDRILL setback position is 20.5 (13/16") for COMPACT BLUMOTION hinges



NOTE: Maximum door thickness 3/4"

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.

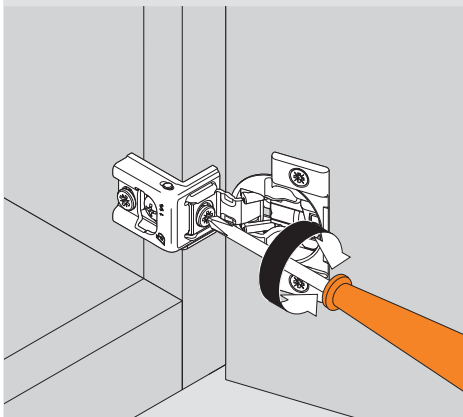
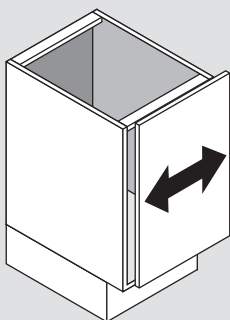


NOTE: The distance between the top and bottom hinges must be greater than the width of the door

Three-dimensional adjustment

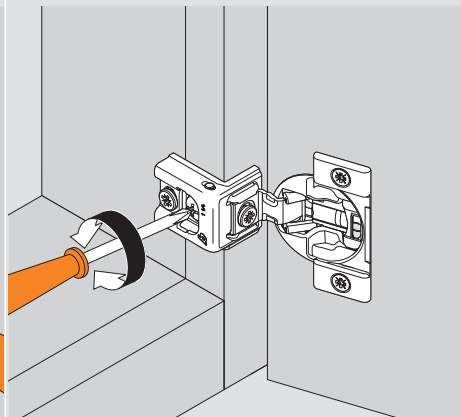
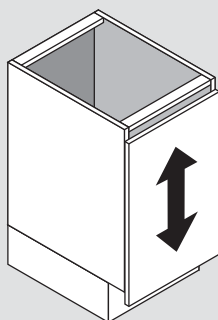
Side adjustment

Rotate the front cam screw to increase or decrease door overlay ($\pm 1/16"$)



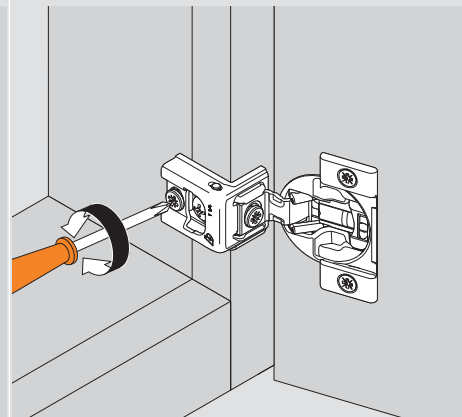
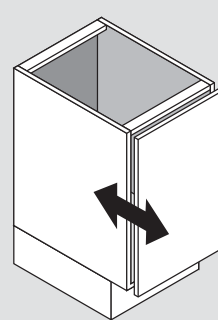
Height adjustment

Loosen installation screws to adjust door position ($\pm 1/8"$), then retighten



Depth adjustment

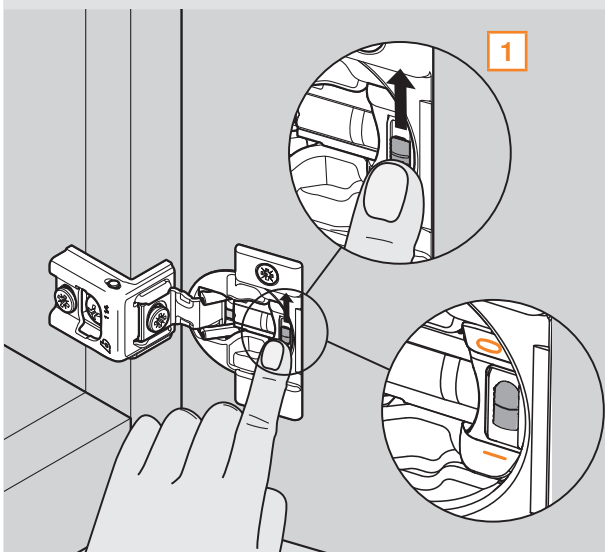
Rotate the rear cam screw to adjust door gap ($+ 3/32"$, $- 1/32"$)



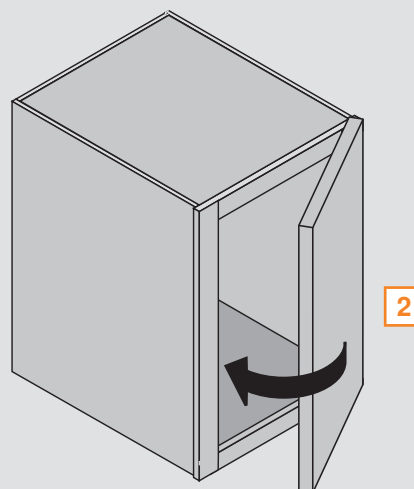
BLUMOTION deactivation

Deactivation switch on the hinge cup

For small or light doors, the BLUMOTION can be deactivated on one of the hinges. COMPACT BLUMOTION comes in the activated position, marked with a "I". The deactivated position is marked with a "0".



Door must be closed once for the deactivation to be complete. To reactivate, move switch back to the original position "I".



COMPACT BLUMOTION 38N for partial overlay

Hinges

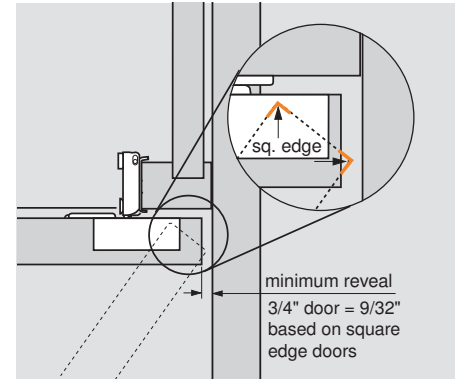


Features

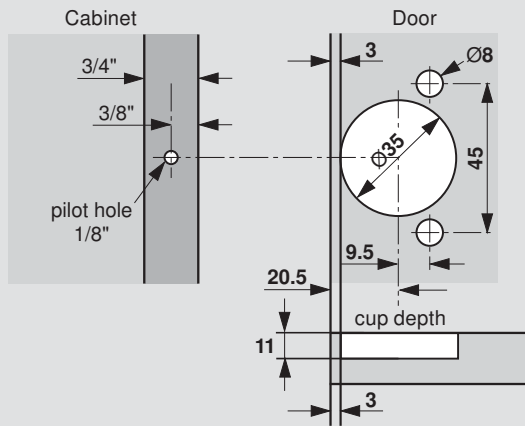
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 7/16" cup depth
- Edge mount available in 1/2" overlay



Minimum reveal

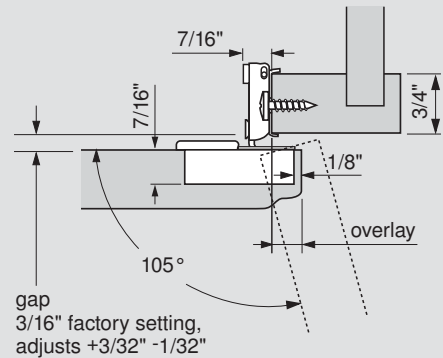


Boring pattern

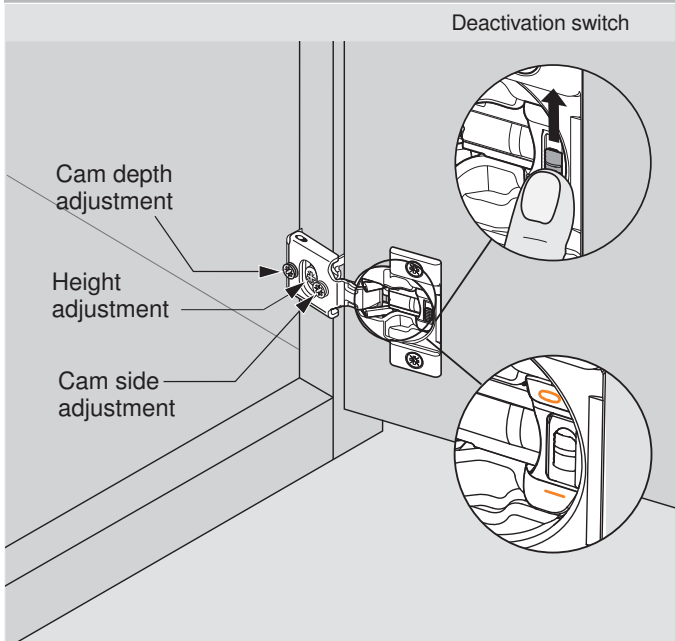


NOTE: Maximum door thickness 3/4"

Dimensions

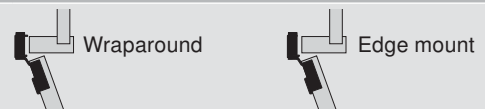


Adjustment



NOTE: COMPACT BLUMOTION comes in the activated position, marked with a "I" – the deactivated position is marked with a "0"

Wraparound and edge mount hinges



Overlay	Door protrusion	Screw-on	47 Press-in
5/16"	5/16"		38N358B.05
3/8"	1/4"	38N355B.06	38N358B.06
1/2"	1/8"	38N355B.08	38N358B.08
*1/2"	1/8"	38N355BE08	38N358BE08
5/8"	0	38N355B.10	38N358B.10
3/4"	0	38N355B.12	38N358B.12

*Available as edge mount hinge

Installation screw

Truss head screw	834TH
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Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38N3508B

*See page 80 for additional cover cap options

Hinges



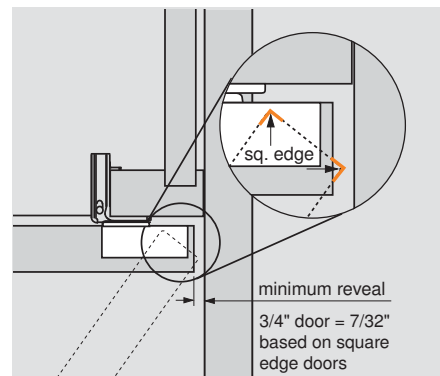
COMPACT BLUMOTION 39C for full overlay



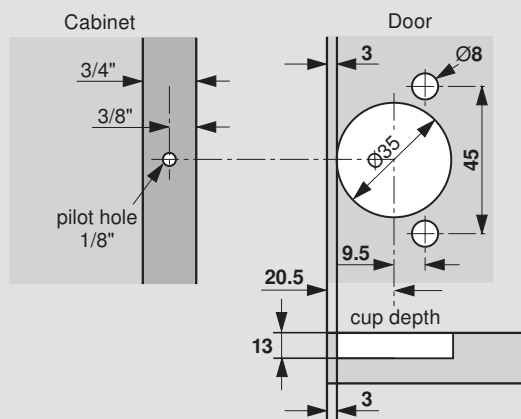
Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 1/2" cup depth
- Less minimum reveal

Minimum reveal

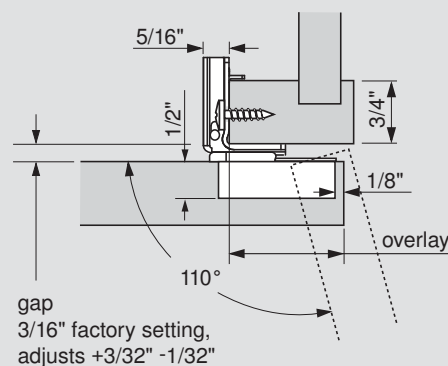


Boring pattern

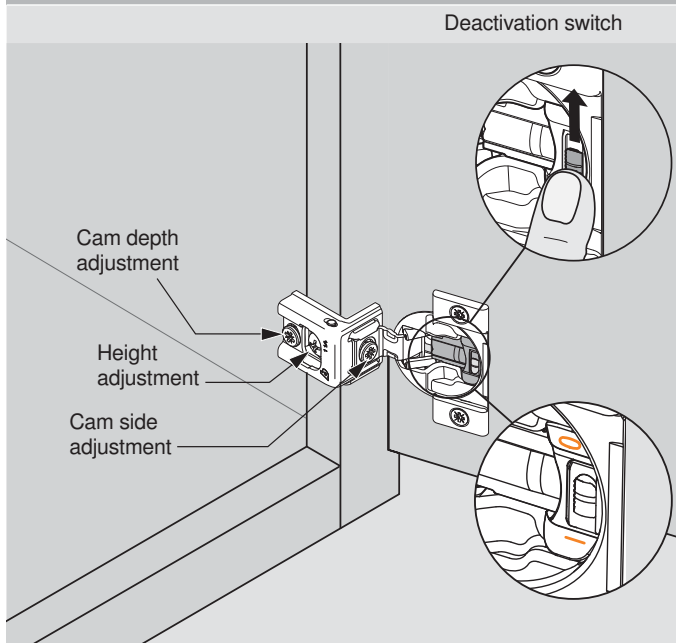


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustments



NOTE: COMPACT BLUMOTION comes in the activated position, marked with an "I" – the deactivated position is marked with a "0"

Wraparound hinges



Overlay	Screw-on	 Press-in
1"	39C355B.16	39C358B.16
1-1/4"	39C355B.20	39C358B.20
1-5/16"	39C355B.21	39C358B.21
1-3/8"	39C355B.22	39C358B.22
1-1/2"	39C355B.24	39C358B.24
1-9/16"	39C355B.25	39C358B.25

Installation screw

Truss head screw	834TH
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Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38C3508

*See page 80 for additional cover cap options

COMPACT BLUMOTION 38C for full overlay

Hinges

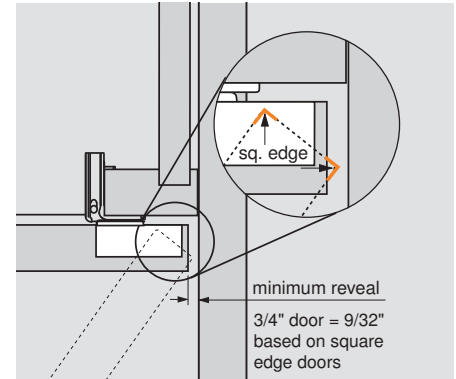


Features

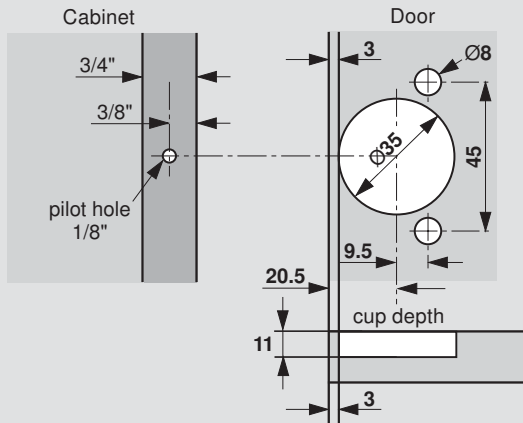
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 7/16" cup depth
- Ideal for profiled doors



Minimum reveal

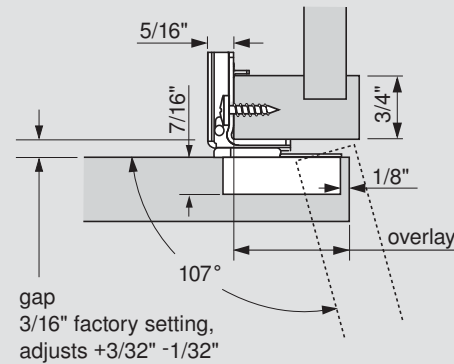


Boring pattern

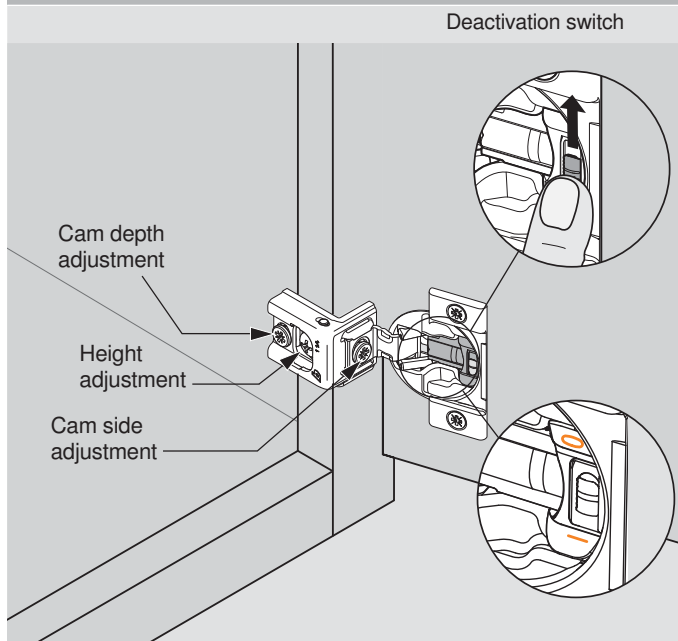


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustments



NOTE: COMPACT BLUMOTION comes in the activated position, marked with an "I" – the deactivated position is marked with a "0"

Wraparound hinges



Overlay	Screw-on	47 Press-in
1-1/4"	38C355B.20	38C358B.20

Installation screw

Truss head screw	834TH
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Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9
*Blank cover cap	38C3508

*See page 80 for additional cover cap options

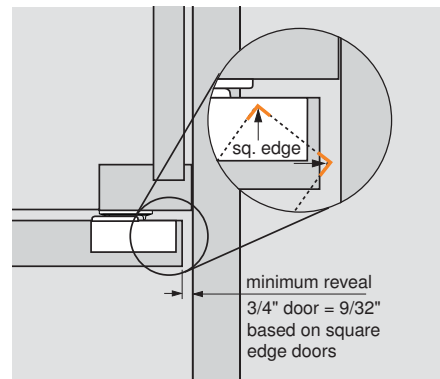
COMPACT BLUMOTION 38B for face mount



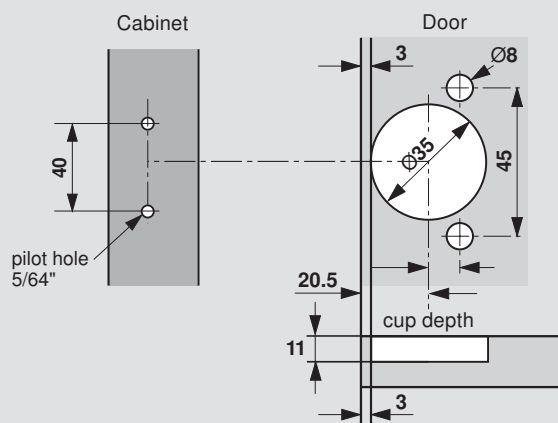
Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece face mount hinge
- 7/16" cup depth
- Ideal for large overlays or refacing of cabinets

Minimum reveal

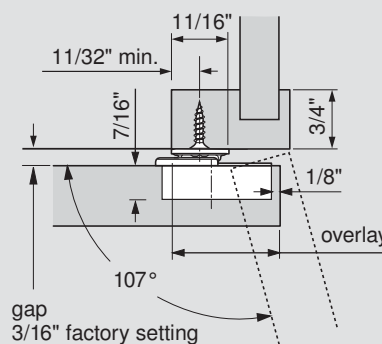


Boring pattern

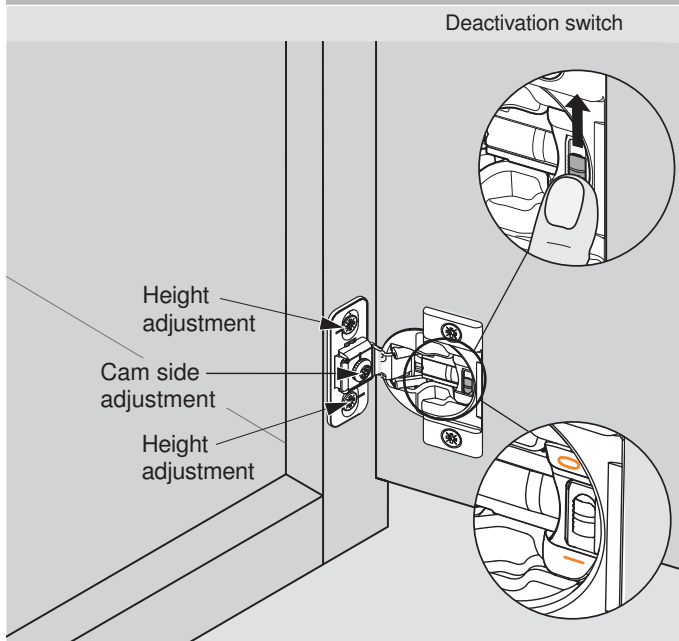


NOTE: Maximum door thickness 3/4"

Dimensions

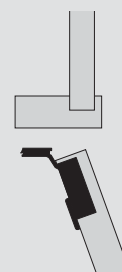


Adjustments



NOTE: COMPACT BLUMOTION comes in the activated position, marked with an "I" – the deactivated position is marked with a "0"

Face mount hinges



Overlay	Screw-on	47 Press-in
1-3/8" or greater	38B355BF22	38B358BF22

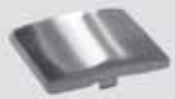
Installation screw

Flat head wood screw	606N or 606P
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Accessories

Angle restriction clip	38C315B3.1
Hinge cup spacer	38C355B9

Hinge arm cover caps



39C/38C cover cap



38N cover cap



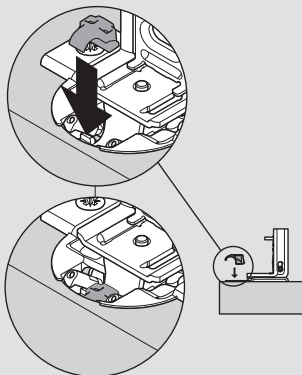
- Steel, nickel-plated cap
- Available blank or embossed (Blum logo)
- Also available with printed custom logo (minimum order quantity applies)

Part no.

39C/38C blank cover cap	38C3508
39C/38C Blum logo embossed cover cap	38C3508.BP
38N blank cover cap	38N3508B
38N Blum logo embossed cover cap	38N3508BBP

Angle restriction clip

- Restricts opening angle of the COMPACT BLUMOTION to 86°
- Angle restriction clip must be inserted before the hinge has been attached to the face frame
- Gray nylon

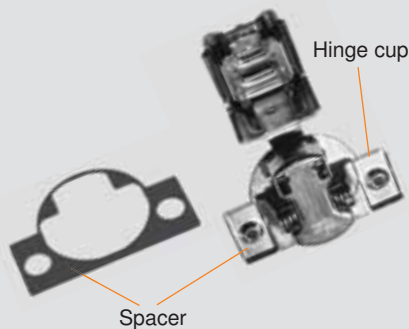


Part no.

Angle restriction clip **38C315B3.1**

Hinge cup spacer

- 1/16" spacer for use under the hinge cup for thin or profile doors
- Gray nylon

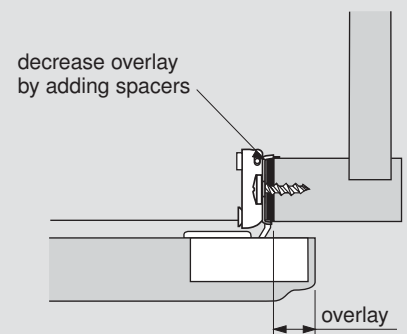
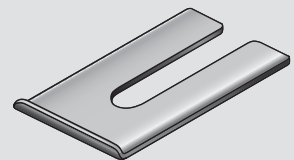


Part no.

Hinge cup spacer **38C355B9**

Distance spacer

- Steel spacer decreases door overlay in 1/32" increments
- Can be stacked to achieve desired overlay reduction

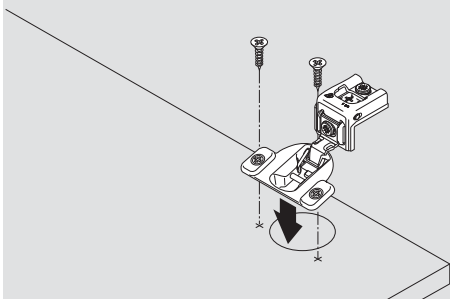


Part no.

Distance spacer **36.3515**

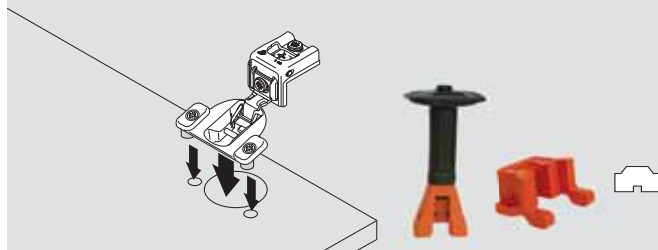
Screw-on hinge attachment

Use #6 wood screws



Press-in hinge attachment

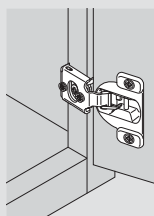
Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.



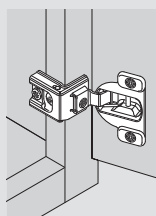
Mounting plate attachment

One-piece assembly

COMPACT 38N
wrap or edge

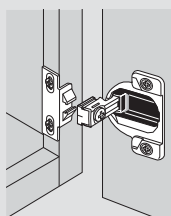


COMPACT 39C/38C
wraparound

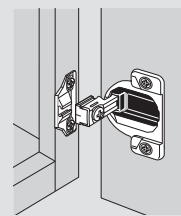


Two-piece assembly

COMPACT 33
edge mount

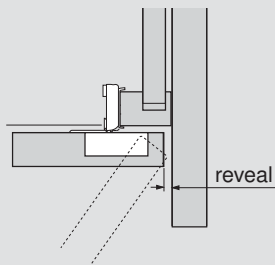


COMPACT 33
face mount



Minimum reveal

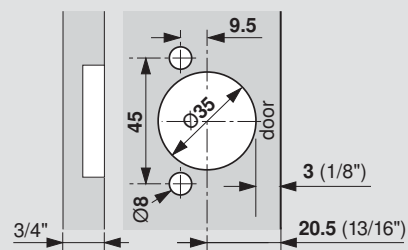
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see minimum reveal table for each hinge).



Hinge cup centerpoint

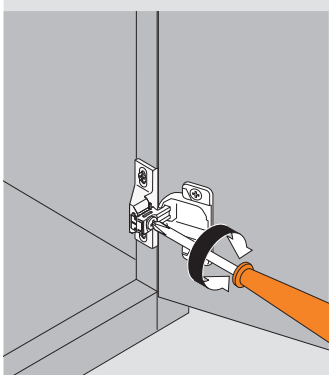
Cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT hinges.

NOTE: Maximum door thickness 3/4"



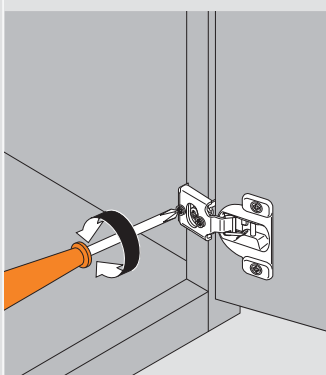
Three-way independent adjustment

Side adjustment



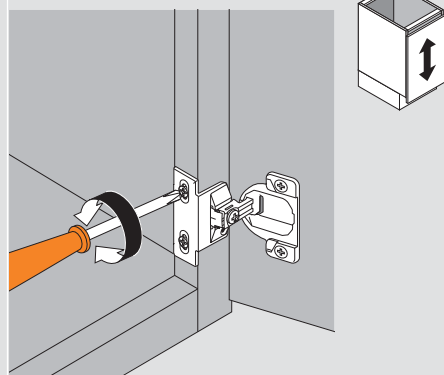
Side adjustment is possible on all COMPACT hinges. COMPACT 38N, 39C and 38C have cam side adjustment.

Depth adjustment



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

Height adjustment



All COMPACT hinges are independently height adjustable

COMPACT 38N for partial overlay

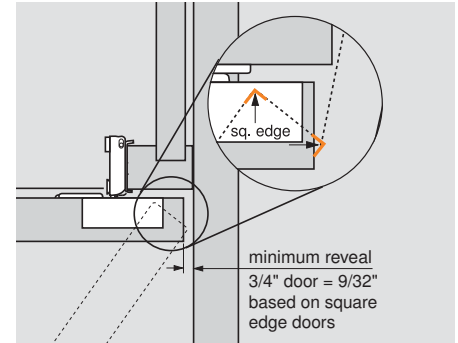
Hinges



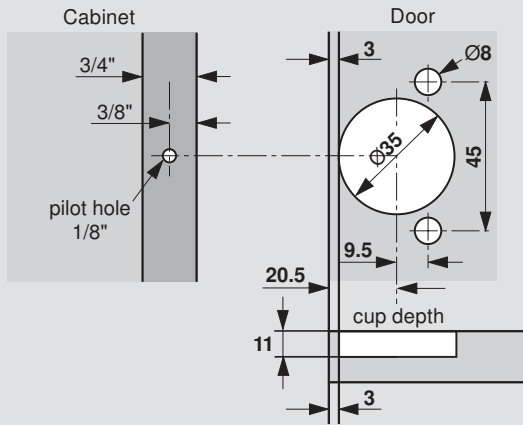
Features

- 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

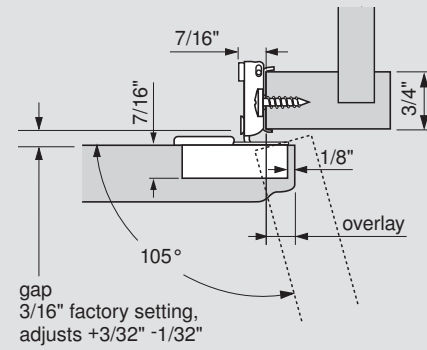


Boring pattern

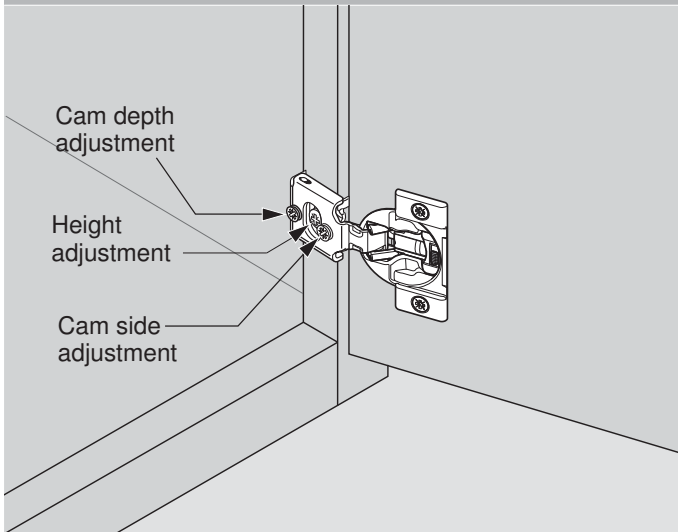


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustments



Calculating door protrusion

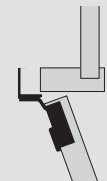
Door overlay	Door protrusion
3/8"	1/4"
1/2"	1/8"
5/8"	0
3/4"	0

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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Hinges



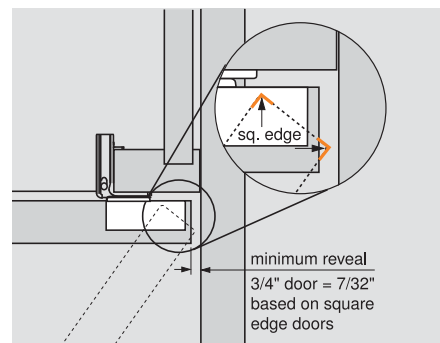
COMPACT 39C for full overlay



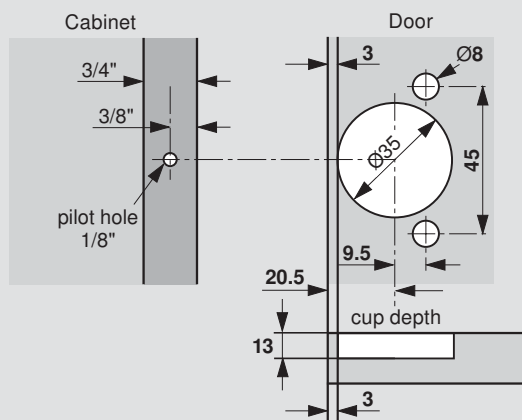
Features

- 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

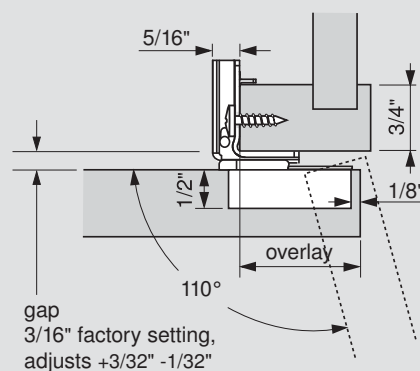
Minimum reveal



Boring pattern

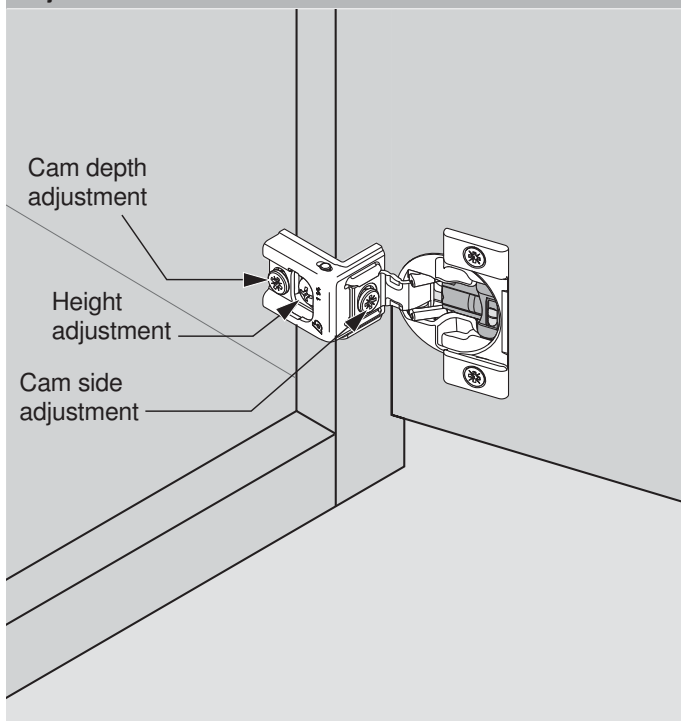


Dimensions

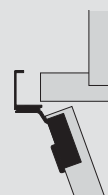



NOTE: Maximum door thickness 3/4"

Adjustments



Wraparound hinges



Overlay	Screw-on	 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 38C for full overlay

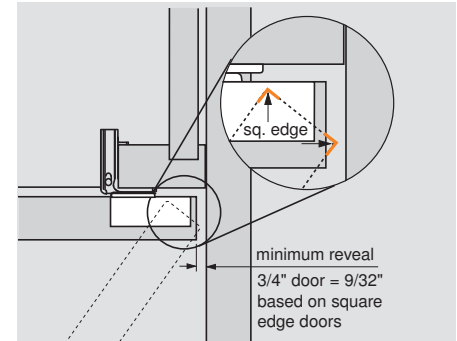
Hinges



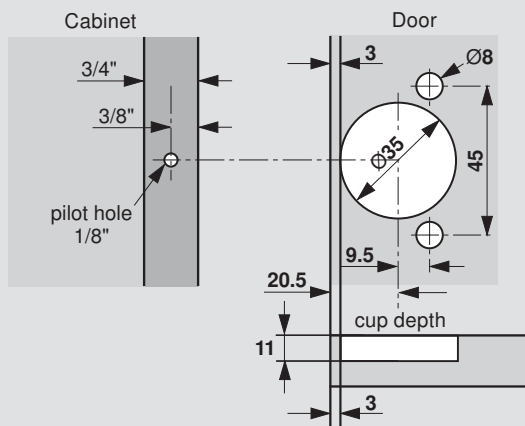
Features

- 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

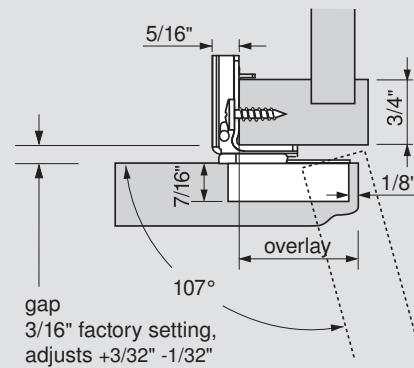


Boring pattern

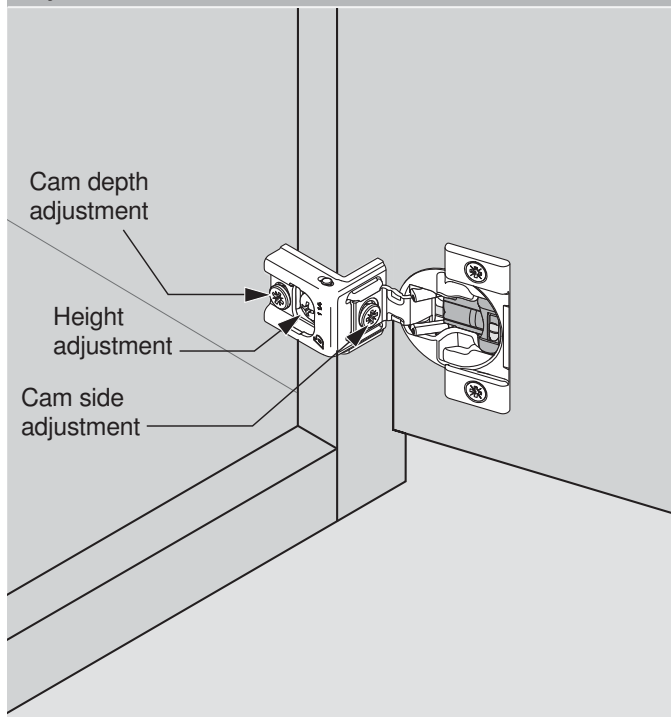


NOTE: Maximum door thickness 3/4"

Dimensions




Adjustments



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

Hinges



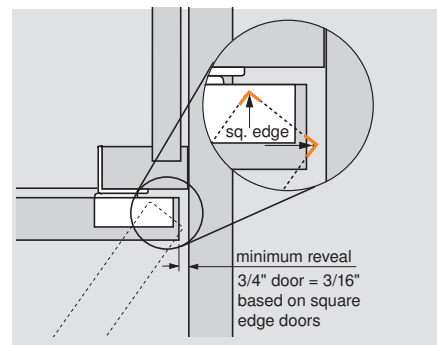
COMPACT 33



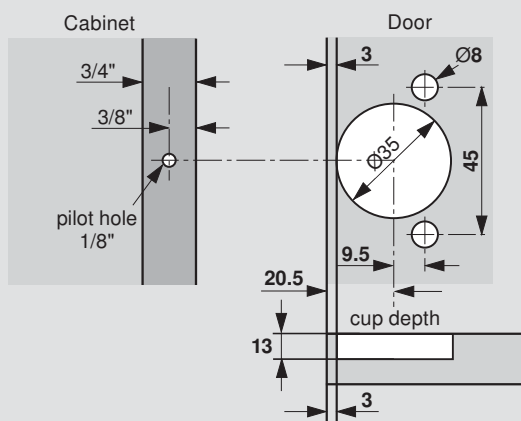
Features

- 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

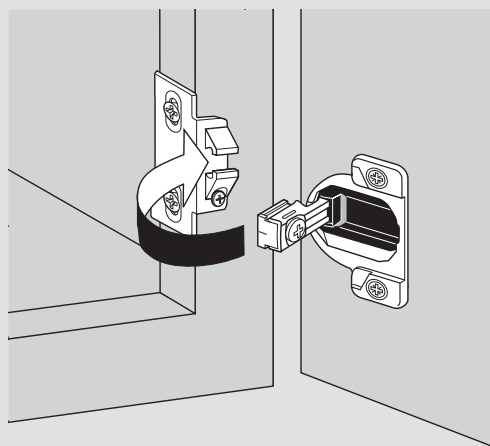
Minimum reveal



Boring pattern



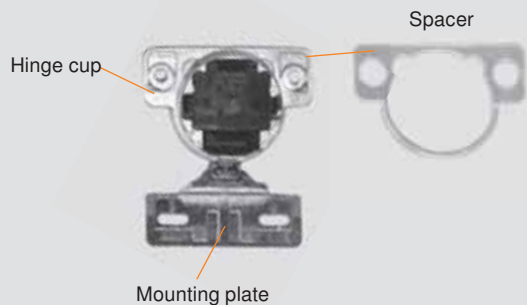
Mounting



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



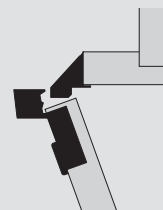
Part no.

COMPACT 33 spacer

58.0890.1198

Attachment options

Edge mount



Face mount

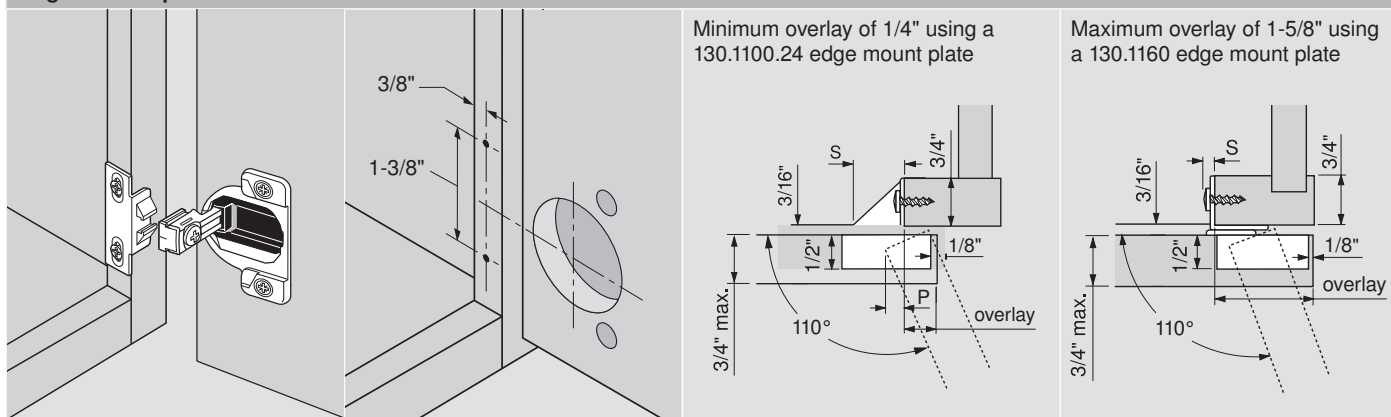


Attachment	Screw-on	47 Press-in
	33.3600	33.3630

Installation screw

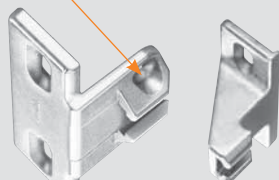
Wood screw	606N or 606P
------------	--------------

Edge mount specifications



Edge mount mounting plates

*Extra screw location

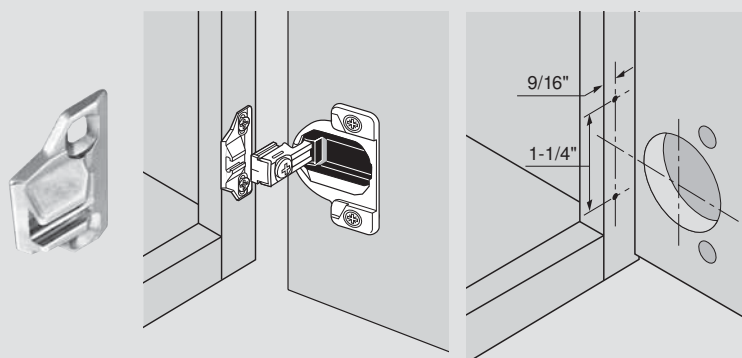


- Zinc die-cast, nickel-plated
- Attaches with #6 x 5/8" wood screws (606N or 606P)
- Overlays from 1/4" to 1-5/8"

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

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

Face mount mounting plate



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

Mounting plate

Part no.

Face mount

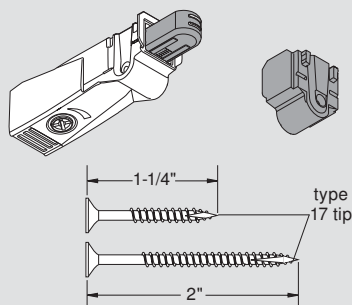
133.0240

Hinges



BLUMOTION 971A for COMPACT hinges

BLUMOTION 971A poly-bag set



Can be used for all COMPACT hinges

Set includes:

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

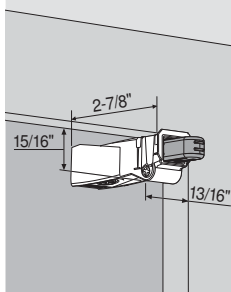
Part no.

Poly-bag set

971A9700.22

Full overlay

- Full overlay – 1" or greater overlay

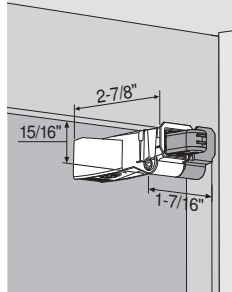


Part no.

BLUMOTION	971A9700
Installation screw (1-1/4")	8114Z

Partial overlay

- Partial overlay – less than 1" overlay



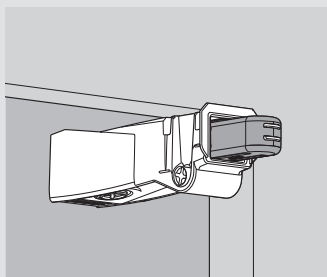
Part no.

BLUMOTION	971A9700
Spacer	971A9709
Installation screw (2")	8200Z

Specifications

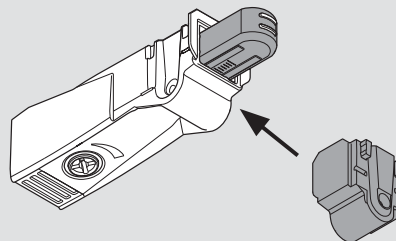
Mounting

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.



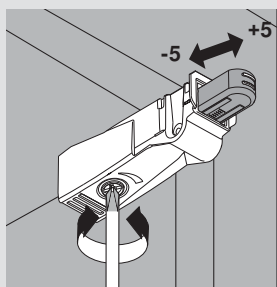
Attachment of partial overlay spacer

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.

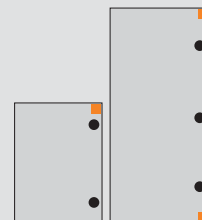


BLUMOTION per door

For optimum BLUMOTION effect, one BLUMOTION 971A should be installed for most applications.

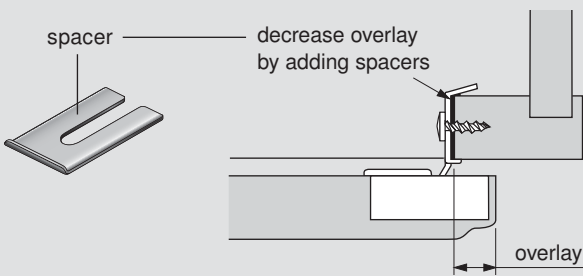
Tall or heavy doors may require an additional BLUMOTION 971A. Trial application recommended.

- BLUMOTION 973A
- Hinges


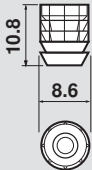
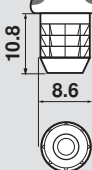
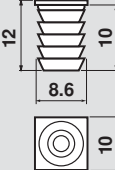
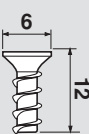
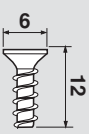


COMPACT cover caps

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

Distance spacer	
	<ul style="list-style-type: none"> Decreases door overlay in 1/32" increments Can be stacked to achieve desired overlay reduction Steel, zinc-coated <div>Part no.</div> <div>Distance spacer 36.3515</div>

Dowel cross-reference chart

Blum press-in and EXPANDO dowels simplify installation Use the charts below to find the proper hinge-to-dowel combination						
<p>Ø8 mm dowels</p>  <p>NOTE: All dowels for Ø8 mm holes require a #6 x 1/2" dowel screw (608.1200)</p>						
Dowels for Ø8 mm hole		70.0532	70T5582.01	34.3582.01	602.1200	608.1200
Type	Series	Without flange	Square head with flange	With flange	Installation screw	Installation screw
CLIP top BLUMOTION, CLIP top and CLIP	100°/107°	✓				✓
	110°/110°+		✓		✓	
	120°/120°+	✓				✓
	170°	✓				✓
	Thick door	✓				✓
	Zero protrusion	✓				✓
	Diagonal 45°	✓				✓
	Blind corner	✓				✓
	Bi-fold	✓				✓
COMPACT BLUMOTION and COMPACT	38N			✓		✓
	39C/38C			✓		✓
	33			✓		✓

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

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

NOTE: Requires 5 each left hand and 4 each right hand drill bits

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/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

NOTE: Requires 4 each left hand and 4 each right hand drill bits

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.

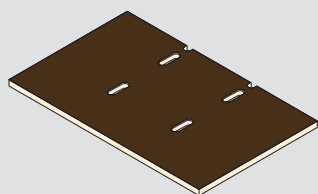
Spindle head retrofit set	M30.1313.UM
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Hinges



Machine accessories

Work table for M51 machine

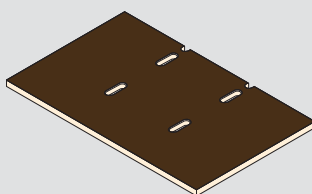


Part no.

Work table

MZA.1000

Work table for M52 machine

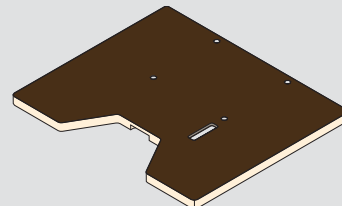


Part no.

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 the 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 most Blum press-in Euro hinges



NOTE: Not for use with 170°, 155° and 125° 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**

Ø5 mm



Ø8 mm



Ø10 mm



Ø35 mm

Part no.

Ø5 mm drill bit (right handed)

M01.ZB05.D2 R

Ø5 mm drill bit (left handed)

M01.ZB05.D3 L

Ø8 mm drill bit (left handed)

M01.ZB08.03 L

Ø10 mm drill bit (right handed)

M01.ZB10.02 R

Ø10 mm drill bit (left handed)

M01.ZB10.03 L

Ø20 mm drill bit (right handed)

M01.ZB20.02 R

Ø35 mm drill bit (right handed)

M01.ZB35.02 R

NOTE: Machine drill bits need to be set to 57 mm in length to achieve proper bore depth.

Twist drill bits – high speed steel

VPB-5



Twist drill bit



*Chuck for DB-2 mm

Part no.

VPB-5 centering bit

VPB-5

Ø2 mm left

DB-2mm

Ø2.5 mm right

DB-2.5mm

Ø5 mm right

DB-5mm

Ø8 mm right

DB-8mm

Ø10 mm right

DB-10mm

Ø10 mm chuck for DB-2 mm

DB-10 x 2mm

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

Knock-in tool



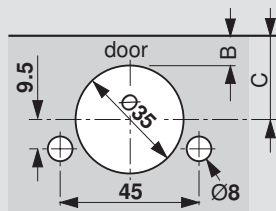
- Can be used to insert all Blum press-in hinges

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

Part no.

ECODRILL

M31.1000

Accessories

Replacement Ø35 mm bit

M31.ZB35.02

Replacement Ø8 mm bit

M31.ZB08.02

Tool set

MZW.1300

ECOJIG



holes are:
32 mm apart,
37 mm setback



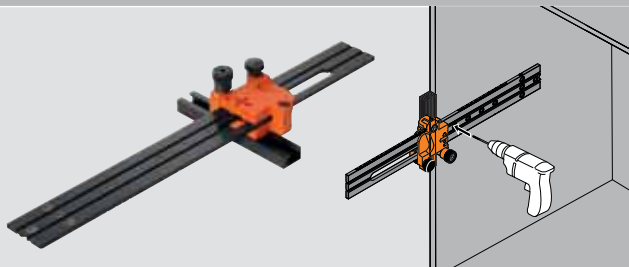
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

65.5070

Universal individual template



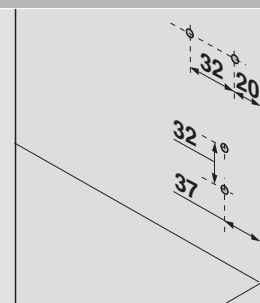
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

Part no.

Universal individual template

65.1051.02

Mounting plate template



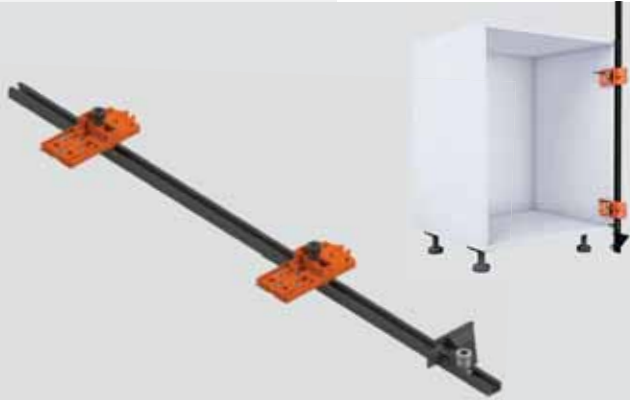
- For pre-boring TIP-ON for doors wing and in-line adapters
- Can also be used to bore for wing (37 mm) and in-line (20 mm) mounting plates
- Additional hole location added (37 mm) for in-line adapter for standard doors
- Simple location of adapter and mounting plate screw positions
- Pilot bore Ø2.5 mm holes for wood screws

Part no.

Mounting plate template

65.5300*

QUICKFIX

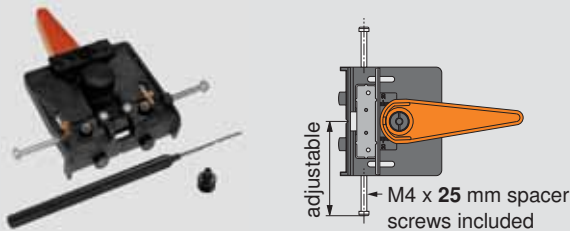


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line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

Part no.

QUICKFIX	65.7500.03
Accessories	
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.

Doweling fixture	69.3600
------------------	---------

INSERTA boring template

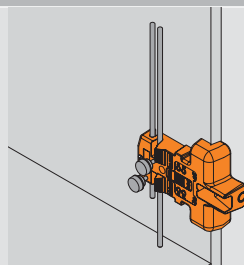


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

INSERTA boring template	65.059A
-------------------------	---------

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
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Hinges



Assembly aids

Deep thread wood screw

- For attaching hinges and mounting plates

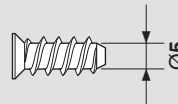


Part no.

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

Deep thread system screw

- Pilot bore Ø5 (3/16") hole

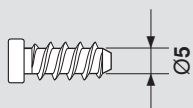


Part no.

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

Pan head system screw

- Pilot bore Ø5 (3/16") hole



Part no.

#7 x 14.5 mm, #2 POZI	668.1450.EH
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Truss head screw

- For attaching COMPACT hinges to face frame
- Type 17



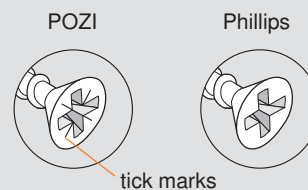
Part no.

#8 x 3/4", #2 Phillips	834TH
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POZI DRIVER and bits



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



Part no.

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

Twin application screw

- Pre-bored Ø5 (3/16") hole

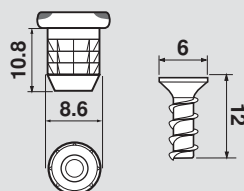


Part no.

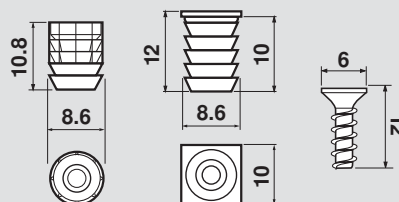
14 (9/16") screw	612.2010
16 (5/8") sleeve For panel thickness 16 - 20 mm	612.2020
20 (25/32") sleeve For panel thickness 20 - 24 mm	612.2420

Ø8 mm dowels

- Square head dowel for attaching to hinges



- Round dowel for insertion into doors



Part no.

Ø8 mm square dowel	70T5582.01	Ø8 mm round dowel	70.0532
Installation screw	602.1200	With flange	34.3582.01
		Installation screw	608.1200





Hinges



Part numbers

Part no.	Page no.						
130.1100.22	86	175L8190	55	39C355C.16	83	707N	95
130.1100.23	86	177H3100	57	39C355C.20	83	70M2550.TL	40
130.1100.24	86	177H3100E	57	39C355C.21	83	70M2580.TL	40
130.1100.26	86	177H3130E	57	39C355C.22	83	70M2650.TL	40
130.1110.02	86	181.6130	53	39C355C.24	83	70M2750.TL	40
130.1120.02	86	33.3600	85	39C358B.16	77	70M2780.TL	40
130.1130.02	86	33.3630	85	39C358B.20	77	70T1504	53
130.1140.02	86	34.3582.01	88	39C358B.21	77	70T3504	53
130.1150.02	86	36.3515	80, 88	39C358B.22	77	70T3507.21	53
130.1160	86	38B355BF22	79	39C358B.24	77	70T3550.TL	19
133.0240	86	38B358BF22	79	39C358B.25	77	70T3553	54
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171A5040	42	38C3508	80, 88	39C358C.20	83	70T3590.TL	19
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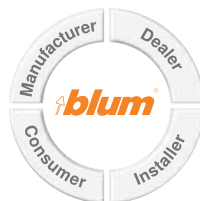
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