

Concealed hinges

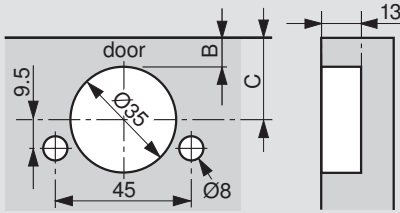


Concealed hinges

Function and design for perfecting motion

Quick reference

Hinge cup centerpoint

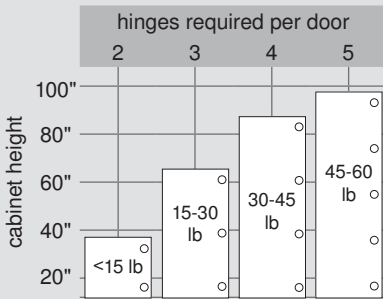


C = cup centerpoint

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

B = bore distance

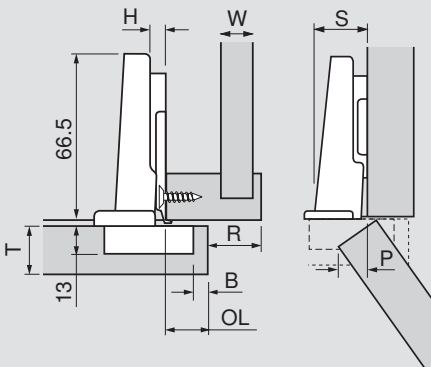
Hinges per door



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

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

Hinge abbreviation key



B	= Boring distance
H	= Plate height
OL	= Door overlay
P	= Door protrusion
R	= Reveal
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width
FD	= Fixed distance

Conversion chart

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

Fixed distance (FD)

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

Elegant design and superior function

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



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CLIP top and CLIP hinge series



Hinges for special applications



COMPACT hinges

Beautiful hinges inside



and out



Perfecting motion for cabinet doors

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



Assembly

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



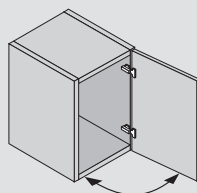
All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

Cycle test



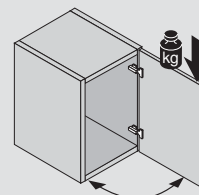
Without load

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



With load

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

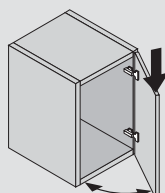


Load test



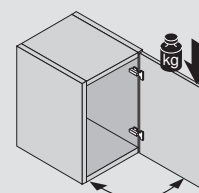
Static load

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



Dynamic load

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

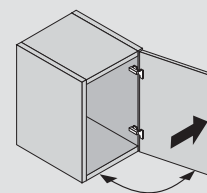


Over push test



Without load

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



General information

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

Conditions of sale and delivery

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



Euro hinges for every application

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

CLIP – The industry standard for tool-free attachment since 1985

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



Hinge planning tools

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

Planning tools are easily accessible on our website at blum.com/planning



CLIP top and CLIP hinges



INSERTA tool-free assembly

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

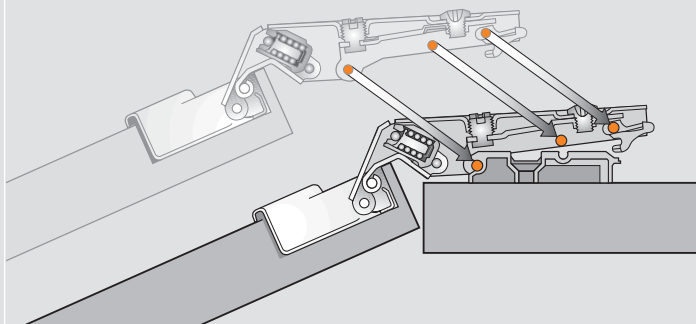


Time proven CLIP technology

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

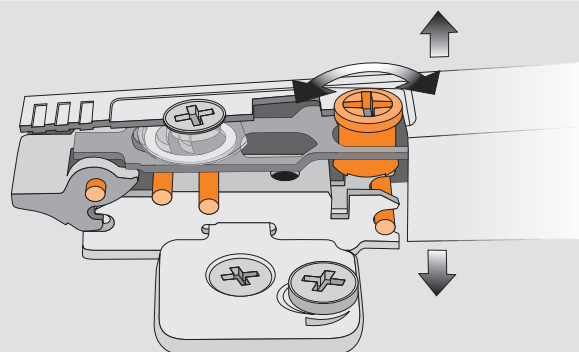
Blum three-point contact

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



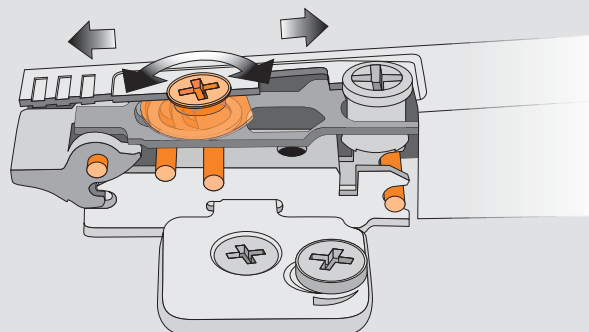
Side adjustment

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



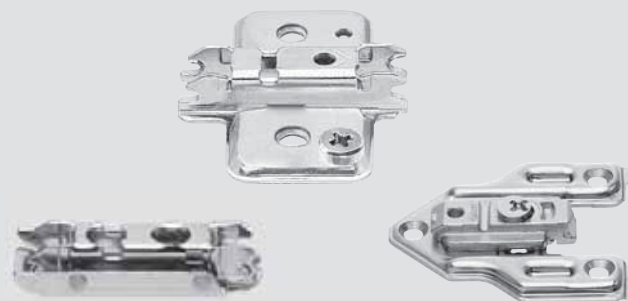
Spiral Tech depth adjustment

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



Wide variety of mounting plates

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



Program overview – Euro hinges

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

Using this section



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

Minimum reveal

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

Face frame construction

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

Panel construction

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

Overlay and reveal tables

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

Select hinge

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

Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 26 (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated

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

For thickness greater than 26 trial app. recommended

Overlay

Partial/twin overlay

Inset

Panel

Panel

Panel

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

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 = 11			

H	Overlay	P	S
0	4.5 5.5 6.5 7.5 8.5 21.5	31	
3	4 5 6 7	fixed distance = 1.5	
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
B = boring distance: 0 = -7 9 = 1.5			

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

Abbreviations

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

	Straight-arm	Self close	Free swing	Half-cranked	Self close	Free swing	Full-cranked	Self close	Free swing
Screw-on	71T3550	70T3550.TL		71T3650	70T3650.TL		71T3750	70T3750.TL	
Press-in	71T3580	70T3580.TL		71T3680	70T3680.TL		71T3780	70T3780.TL	
INSERTA	71T3590	70T3590.TL		71T3690	70T3690.TL		71T3790	70T3790.TL	
EXPANDO	71T368E								

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 9	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

Step 4 – Check minimum reveal table

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

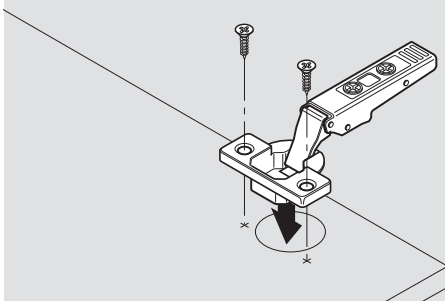
Minimum reveal table					
3	0.6	1.0	1.3	1.7	2.5
4	0.6	1.0	1.3	1.6	2.4
5	0.6	1.0	1.2	1.5	2.2
6	0.6	1.0	1.2	1.4	2.0
B = boring distance					
T = door thickness					

General specifications

Hinge-to-door attachment

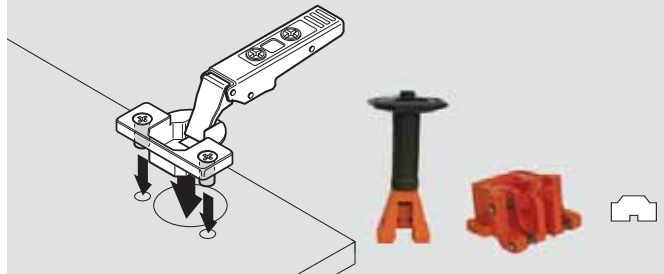
Screw-on

Use #6 wood screws



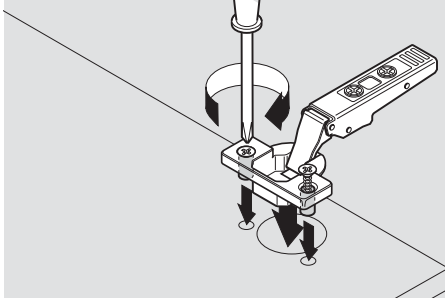
Press-in

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



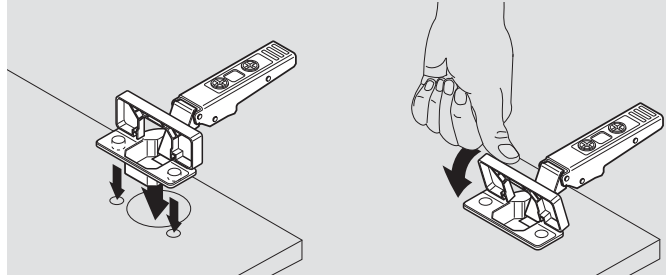
EXPANDO

Pre-attached Ø8 mm expanding dowels

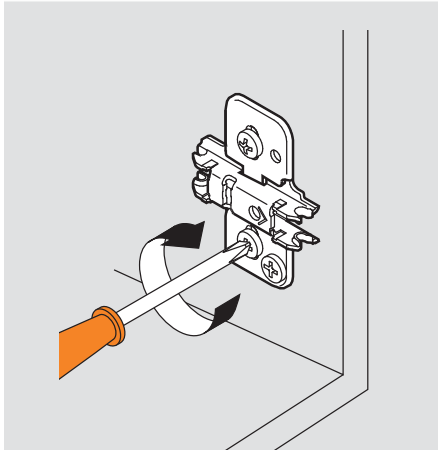


INSERTA

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

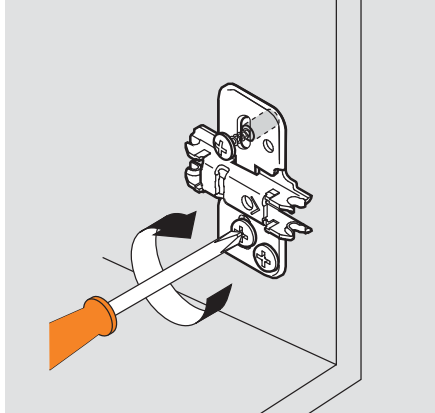


Screw-on



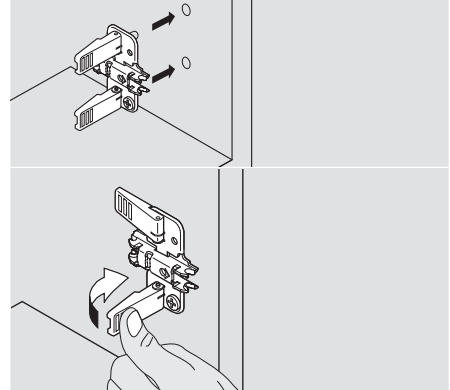
EXPANDO

Pre-attached expanding Ø5 mm dowels



INSERTA

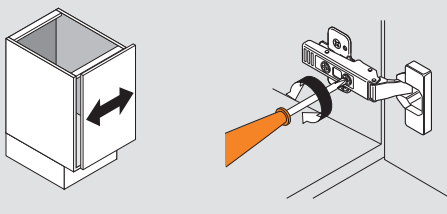
Tool-free attachment with INSERTA expanding Ø5 mm dowels



Three-dimensional adjustment

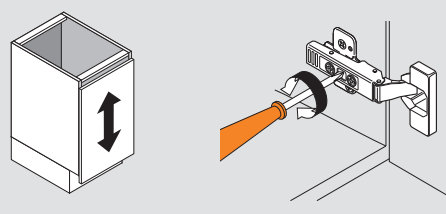
Side adjustment

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



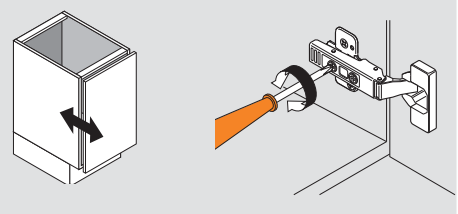
Height adjustment

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

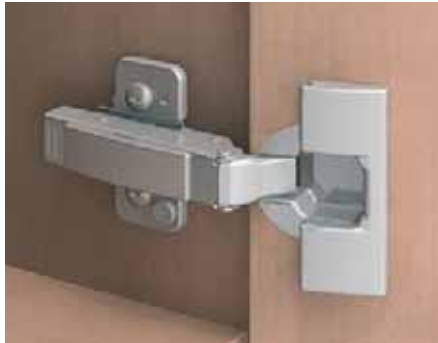


Depth adjustment

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



CLIP top 107° hinges



Features

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

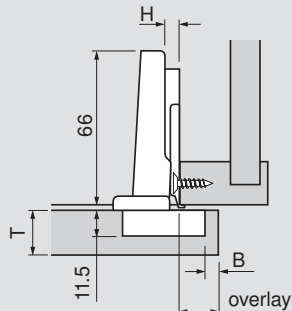
Minimum reveal table

	0.6	1.0	1.3	1.7	2.5
3	0.6	1.0	1.3	1.7	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					

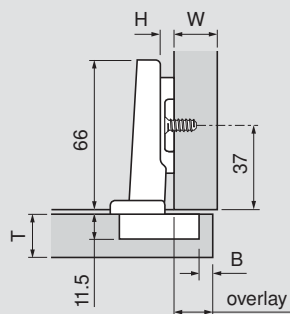
For thickness greater than 22 trial app. recommended

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
Screw-on	75T1550
Press-in	75T1580
INSERTA	75T1590B

Abbreviations

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

CLIP top 110° hinges



Features

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

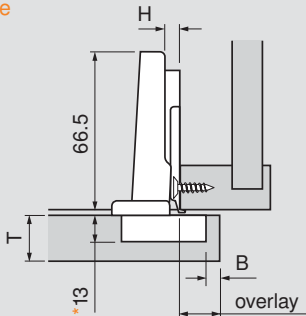
Minimum reveal table

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

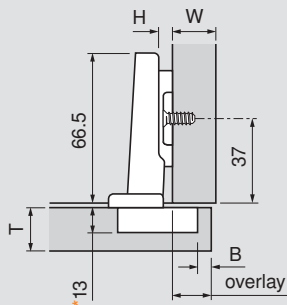
For thickness greater than 26 trial app. recommended

Overlay

Frame

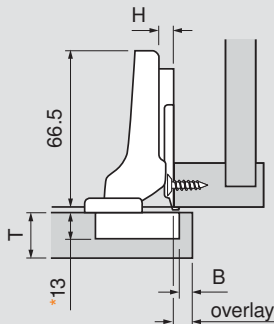


Panel

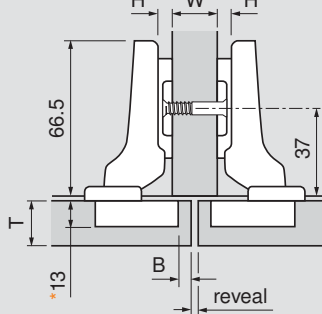


Partial/twin overlay

Frame

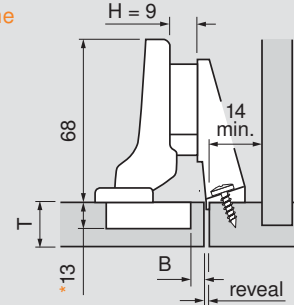


Panel



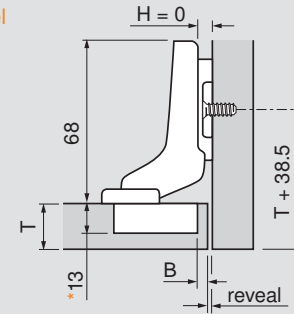
Inset

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	21.5	31
	10	8	6	4	2	19		
	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

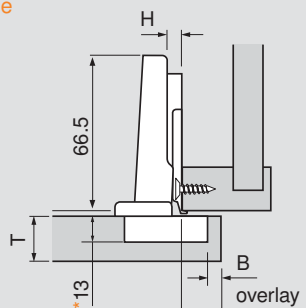
	0.5	1.0	1.8	2.7	4.3
3	0.5	1.0	1.7	2.5	3.8
4	0.5	1.0	1.7	2.5	3.6
4.5	0.5	0.9	1.7	2.4	3.4
5	0.5	0.9	1.6	2.3	3.2
6	0.5	0.9	1.6	2.2	3.0
7	0.5	0.9	1.6	2.2	3.0
B = boring distance	16	19	22	24	26
T = door thickness					

For thickness greater than 26 trial app. recommended

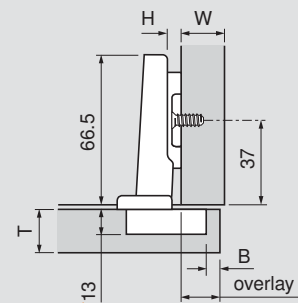
CLIP top

Overlay

Frame

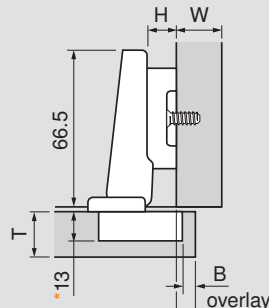


Panel

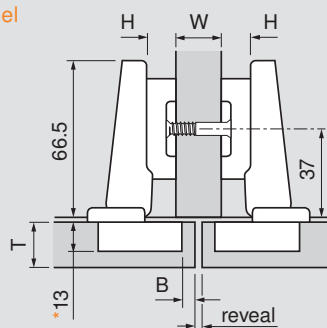


Partial/twin overlay

Panel

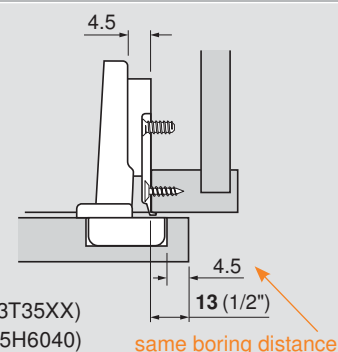


Panel

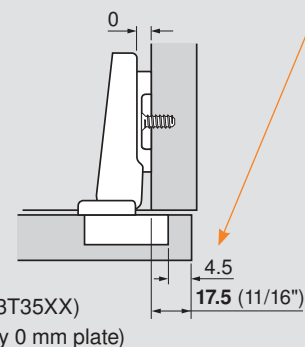


Building both frame and panel cabinets

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

CLIP top 120° hinges



Features

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

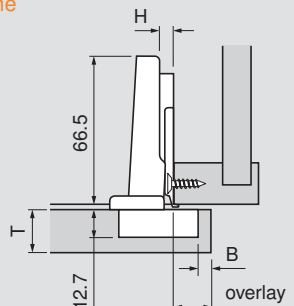
Minimum reveal table

	3	4	5	6	B = boring distance
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	
16	18	19	20	22	
T = door thickness					

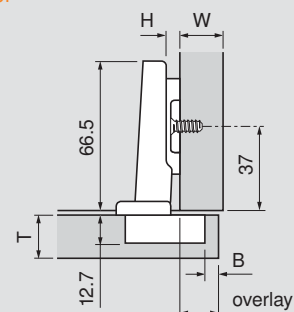
For thickness greater than 22 trial app. recommended

Overlay

Frame

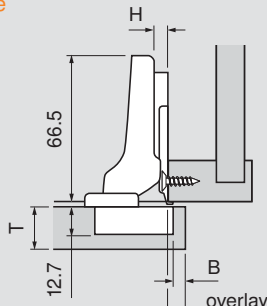


Panel

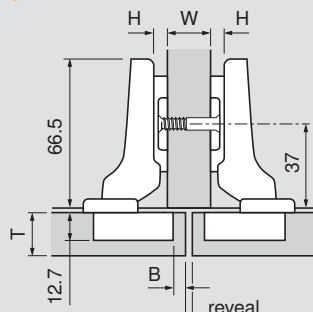


Partial/twin overlay

Frame

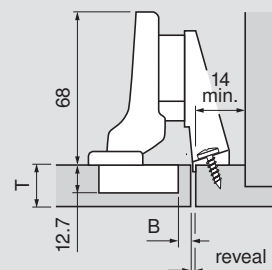


Panel



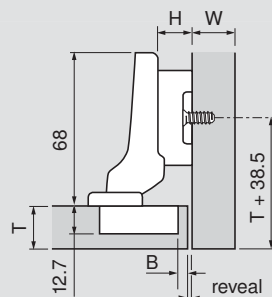
Inset

Frame



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

Panel



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

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

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

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

Abbreviations

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

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

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

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

CLIP top 120°+ hinges



Features

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

Minimum reveal table

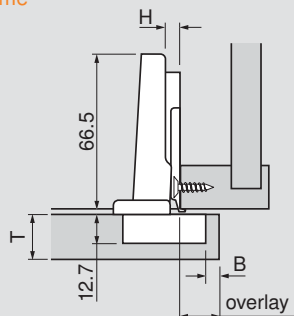
	3	4	4.5	5	6
1.2	1.2	1.2	1.1	1.1	1.1
1.7	1.7	1.7	1.6	1.6	1.6
2.0	2.0	2.0	1.9	1.9	1.9
2.4	2.4	2.3	2.2	2.2	2.2
3.3	3.1	3.0	3.0	2.9	2.9
B = boring distance	16	18	19	20	22
T = door thickness					

For thickness greater than 22 trial app. recommended

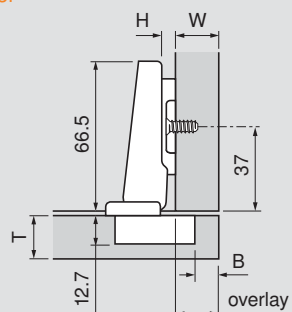
CLIP top

Overlay

Frame

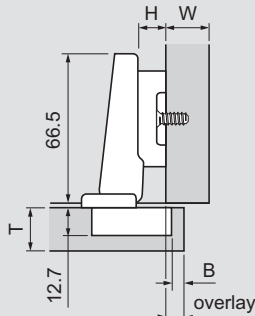


Panel

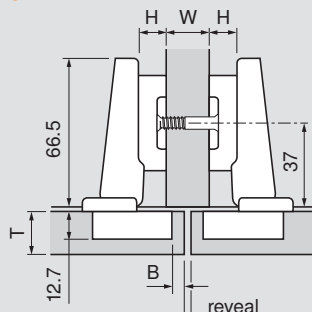


Partial/twin overlay

Panel

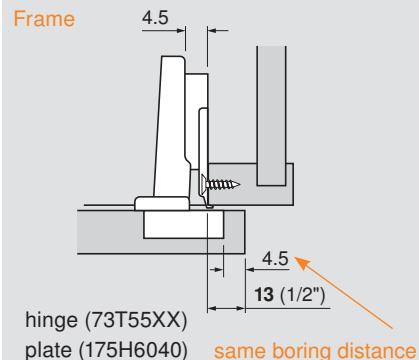


Panel

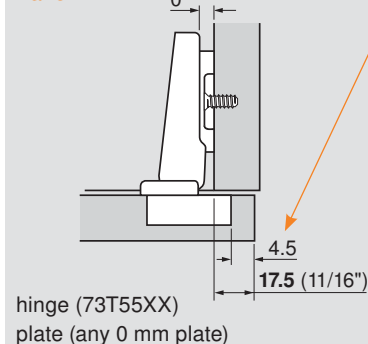


Building both frame and panel cabinets

Frame



Panel



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
9	2	–	–	–	–	16	18.5	28
	5	3	2	–	–	19		
	8	6	5	4	–	22		
	3	4	4.5	5	6			
	B = boring distance							

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

Bore all doors at 4.5 mm to achieve:

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

Advantages:

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

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

CLIP top 170° hinges



Features

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

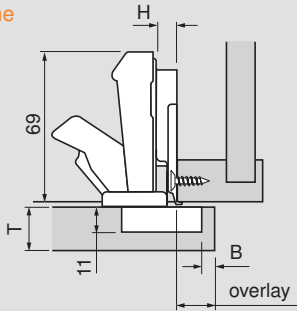
Minimum reveal table

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

For thickness greater than 24 trial app. recommended

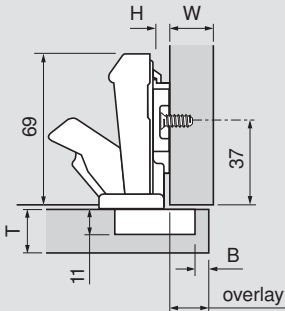
Overlay

Frame



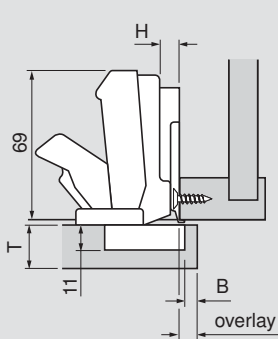
NOTE: 175H6xxx or 175L6600.24 recommended

Panel

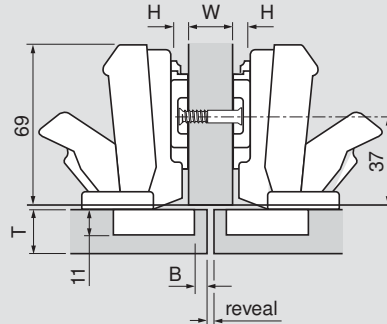


Partial/twin overlay

Frame



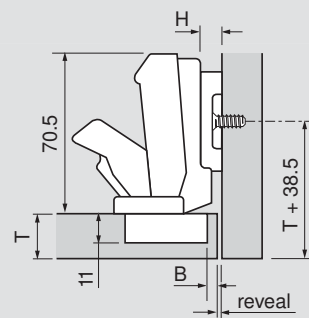
Panel



Inset

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

Panel



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

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

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


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


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

Abbreviations

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

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

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

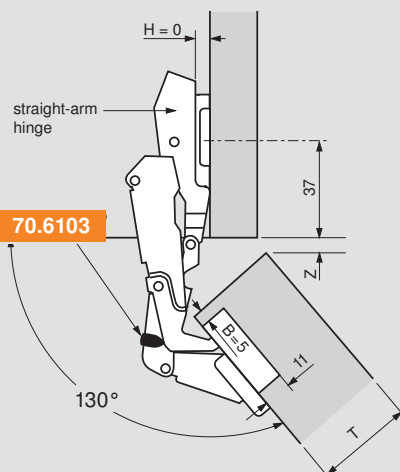
Half-cranked	Self close	Free swing
Screw-on	71T6650	70T6650.TL
Press-in 	71T6680	
INSERTA	71T6640B	

Special applications



Straight-arm applications

Thick door application



Trial application recommended

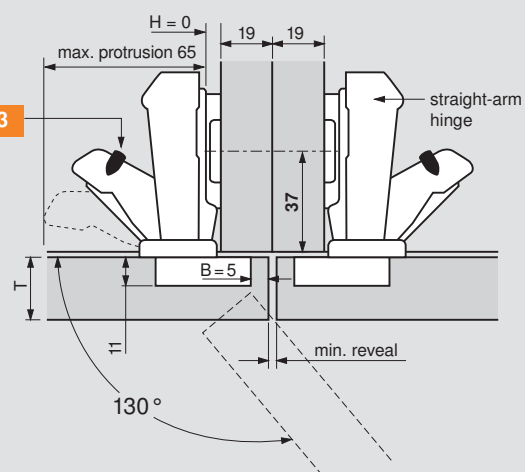
Z = gap

15.5	13	11	9.5	7.5
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25	29	32	35	38
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T = door thickness

Thick door – twin application



Trial application recommended

Minimum reveal table

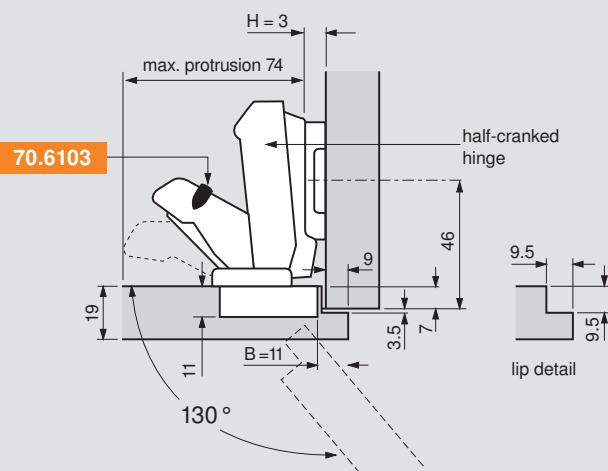
0	6.5	14.5	21
---	-----	------	----

22	25	29	32
----	----	----	----

T = door thickness

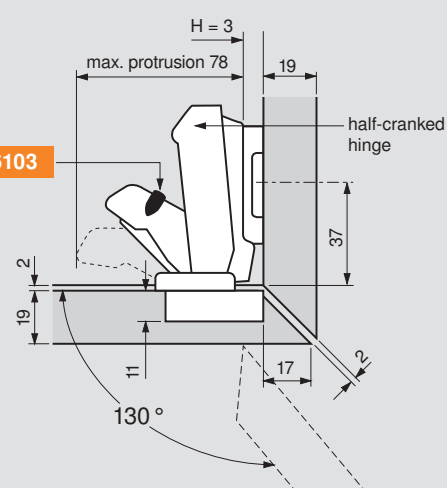
Half-cranked applications

Lip door application



Trial application recommended

Mitered corner door application



Trial application recommended

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

Angle restriction clip



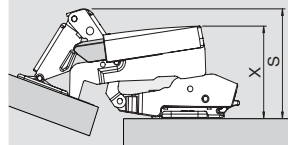
- Reduces opening angle of the CLIP top 170° to 130°
- Installs quickly, easily and tool-free
- Black nylon

Part no.

Angle restriction clip

70.6103

BLUMOTION for 170° hinges



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

Part no.

Blumotion for 170° hinge

973A6000

CLIP top 95° thick door hinges



Features

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

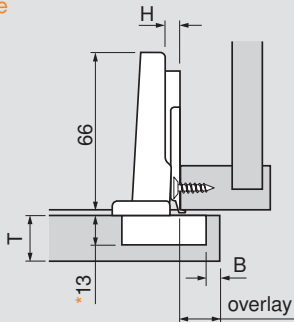
Minimum reveal table

	3	4	5	6	7	B = boring distance	T = door thickness
	0.4	0.7	1.0	1.4	1.8	19	22
	0.8	1.0	1.4	1.8	2.1	24	26
	1.0	1.4	1.8	2.2	2.5	28	29
	1.5	1.8	2.3	2.7	3.1	30	

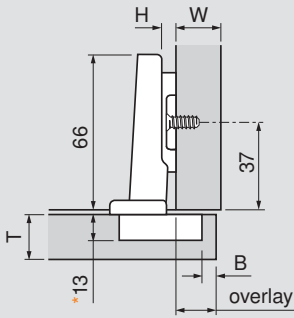
For thickness greater than 30 trial app. recommended

Overlay

Frame

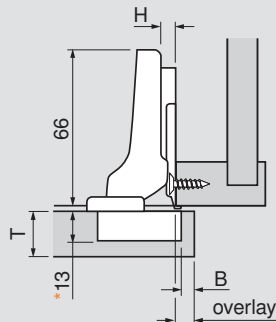


Panel

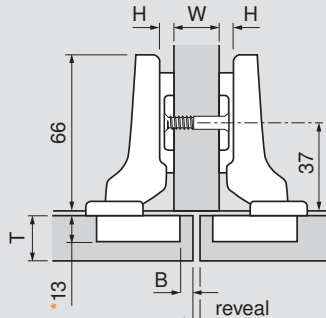


Partial/twin overlay

Frame

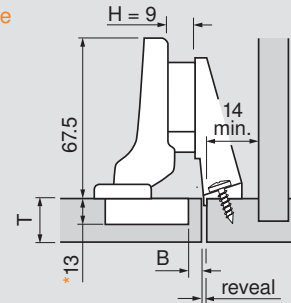


Panel



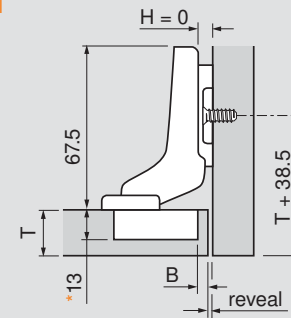
Inset

Frame



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

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
	7	5	3	1	-	16		
0	10	8	6	4	2	19	24	31
	13	11	9	7	5	22		
	3	4	5	6	7			
	B = boring distance							

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

Abbreviations

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

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

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

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

CLIP top 155° zero protrusion hinges



Features

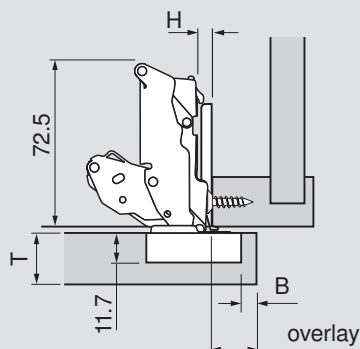
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- Angle restriction clips available
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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

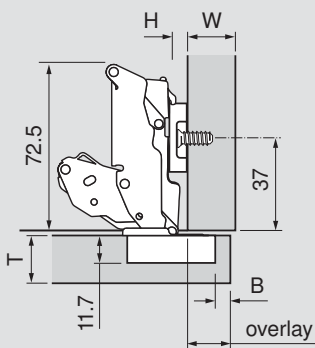
For thickness greater than 24, please see page 27

Overlay

Frame

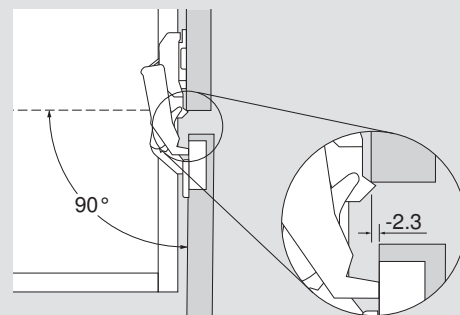


Panel



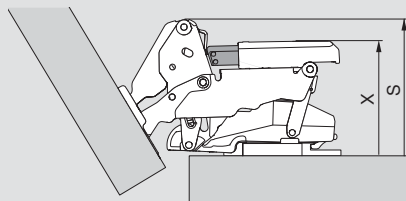
Door protrusion

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



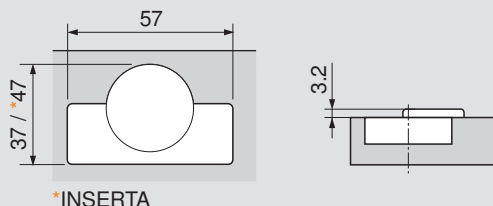
NOTE: Use of 0 mm or 3 mm is recommended for zero protrusion

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° hinges only
- Gray nylon

Part no.

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

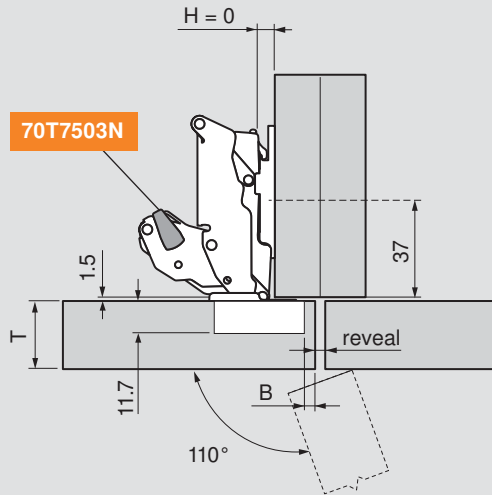
Abbreviations

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

CLIP top 155° straight-arm special applications



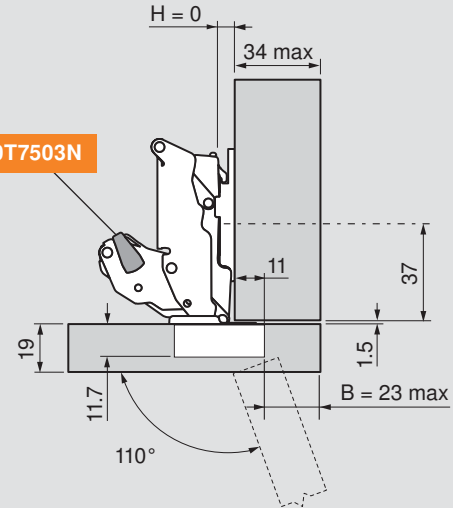
Maximum door thickness



Trial application recommended

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

Maximum door overlay



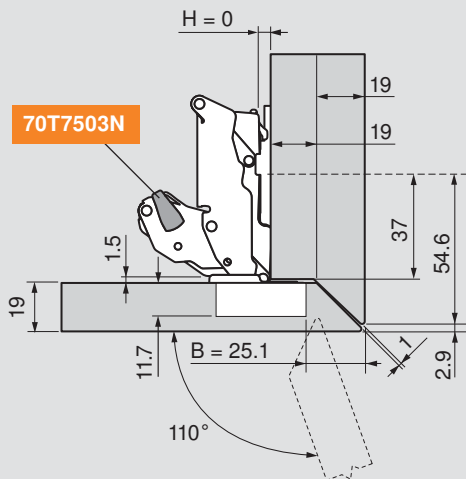
Trial application recommended

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

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

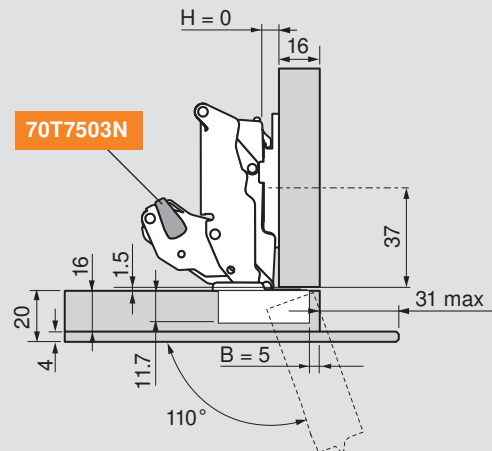
H	Overlay							
0	19	22	24	26	28	30	32	34
	8	11	13	15	17	19	21	23
	B = boring distance							

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° hinges only
Gray nylon

Part no.

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

Abbreviations

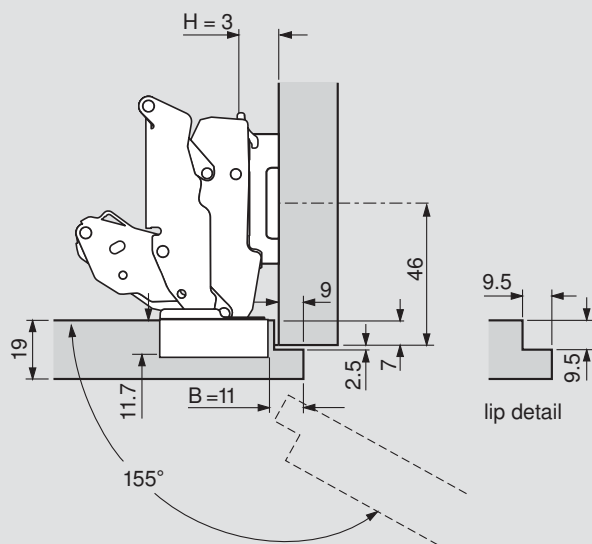
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
T	= Door thickness
W	= Side panel width

CLIP top 155° half-cranked special applications



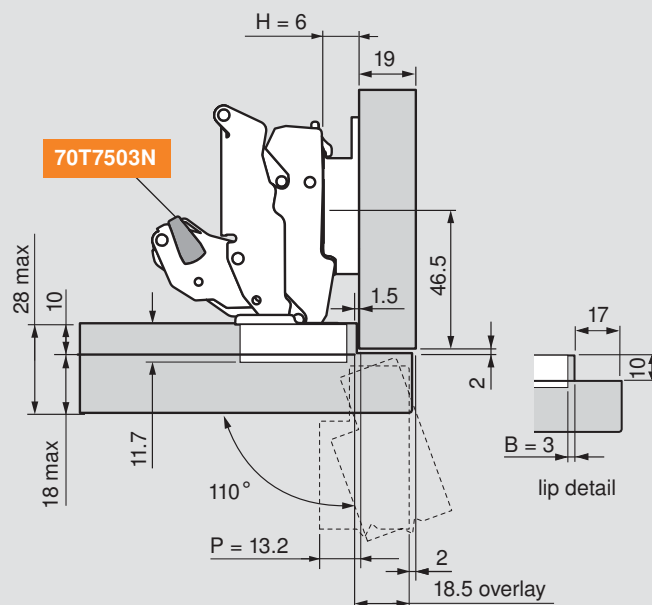
CLIP top

Lip door



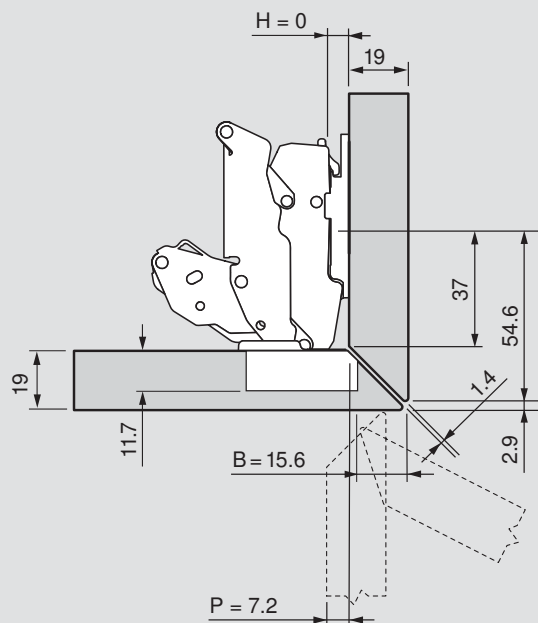
Trial application recommended

Thick lip door



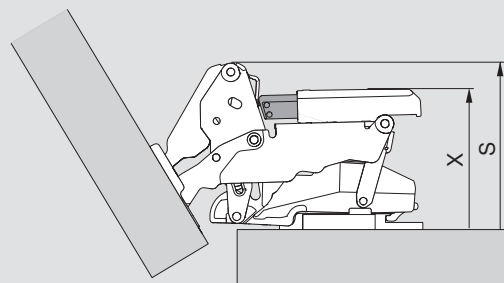
Trial application recommended

Two-sided and four-sided mitered door



Trial application recommended

BLUMOTION for 155° 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	

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° hinges only
Gray nylon

Part no.

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

Abbreviations

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

CLIP top 120° aluminum door hinges for BLUMOTION



Features

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

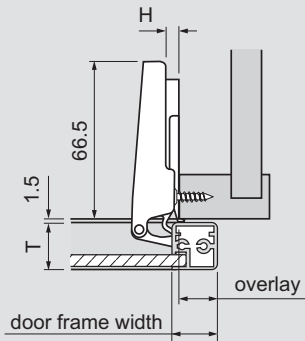
Minimum reveal table

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

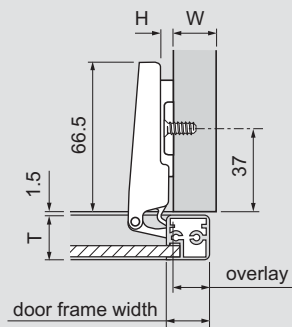
For thickness greater than 22 trial app. recommended

Overlay

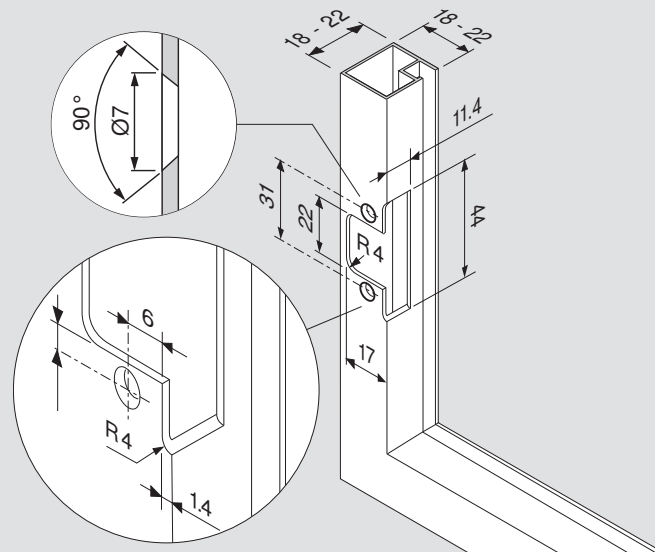
Frame



Panel

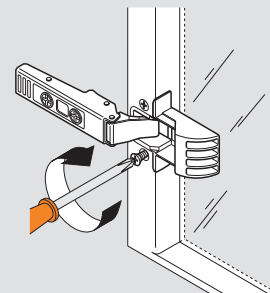
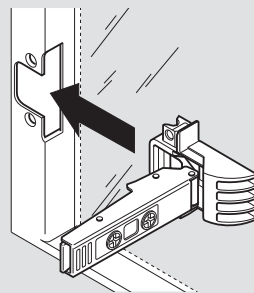


Specifications



Insert hinges into machined openings

Attach with special screws provided with hinges (699.110)



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

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

Straight-arm

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



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

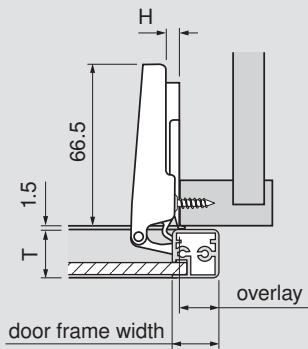
	18	19	20	21	22
18	1.5	1.9	2.4	2.9	3.7
19	1.5	1.8	2.2	2.7	3.3
20	1.4	1.8	2.2	2.6	3.1
21	1.4	1.7	2.1	2.5	3.0
22	1.3	1.7	2	2.4	2.9
door frame width	18	19	20	21	22

T = door thickness

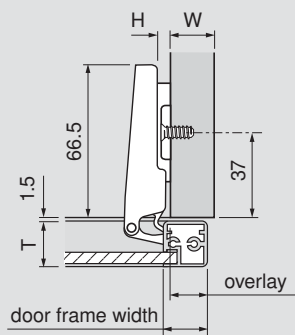
For thickness greater than 22 trial app. recommended

Overlay

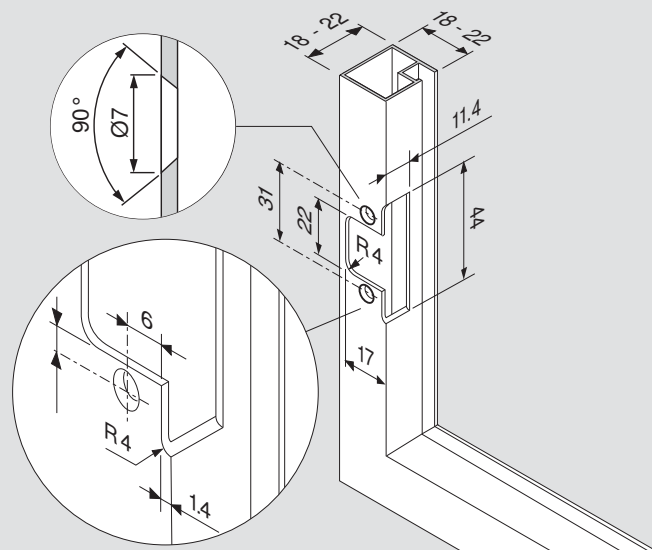
Frame



Panel

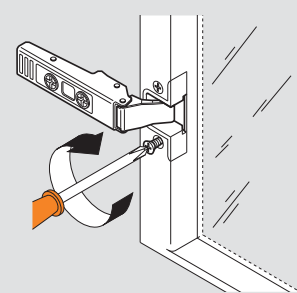
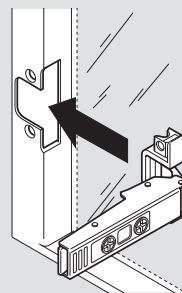


Specifications



Insert hinges into machined openings

Attach with special screws provided with hinges (699.110)



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

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

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

Abbreviations

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

CLIP top 95° inset blind corner hinge



Features

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

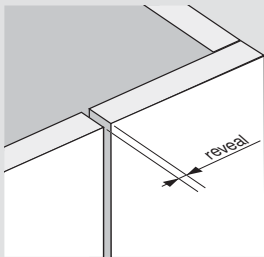
Minimum reveal table

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

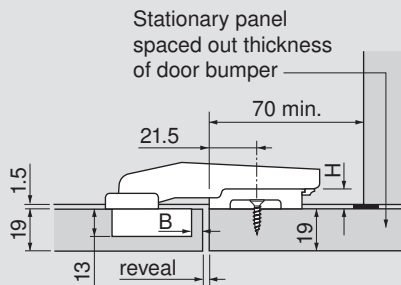
T = door thickness

For thickness greater than 24 trial app. recommended

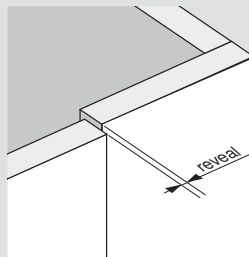
Flush door applications



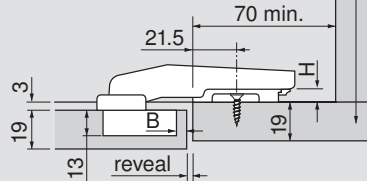
Back of door is flush with stationary panel



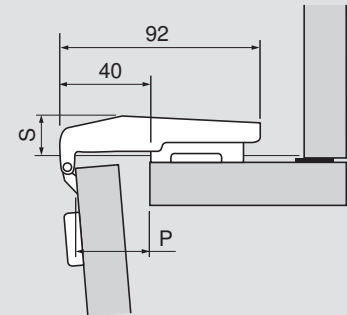
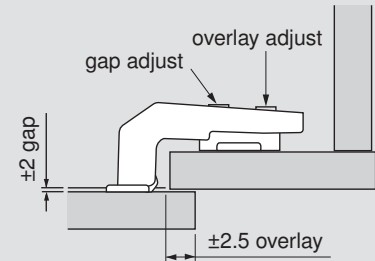
Offset door applications



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 hinge



Features

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

Minimum reveal table

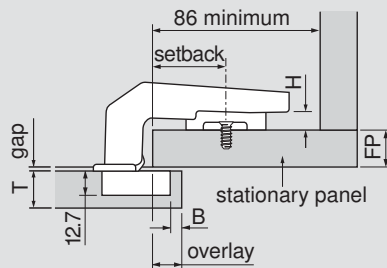
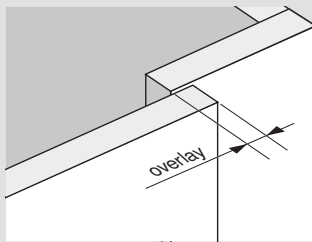
	0.1	0.3	0.4	0.5	0.9	1.3
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B = boring distance	16	18	19	20	22	24

T = door thickness

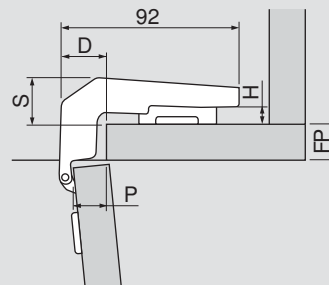
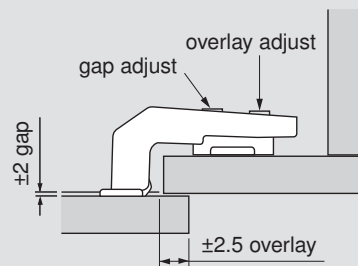
For thickness greater than 24 trial app. recommended

CLIP top

Overlay application



Adjustments and clearances



NOTE: Door gap can be adjusted ± 2 mm

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

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

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

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

Overlay blind corner	Self close
INSERTA	79T9990B37

Abbreviations

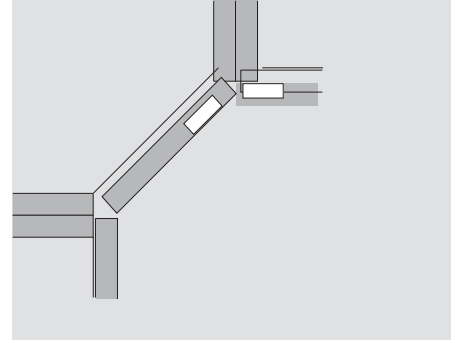
FP	= Front panel thickness
D	= Depth
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion

CLIP top 110° diagonal hinges

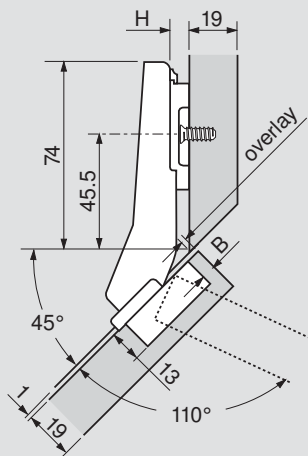
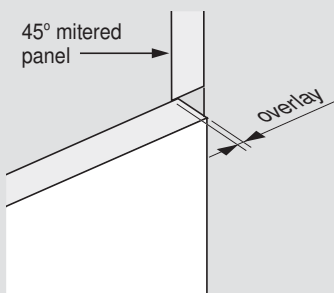


Features

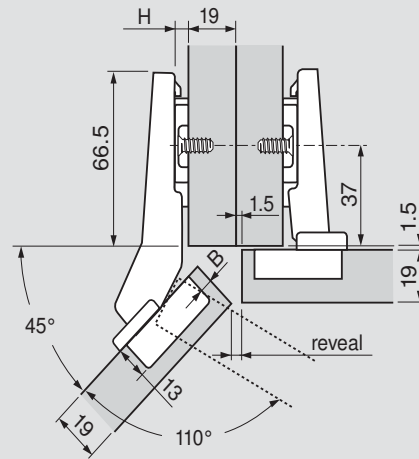
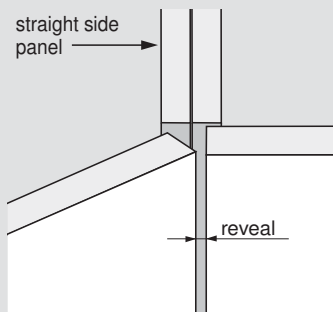
- Three-dimensional adjustment
- Available with INSERTA attachment
- All metal hinge, nickel-plated



Overlay application



Inside corner



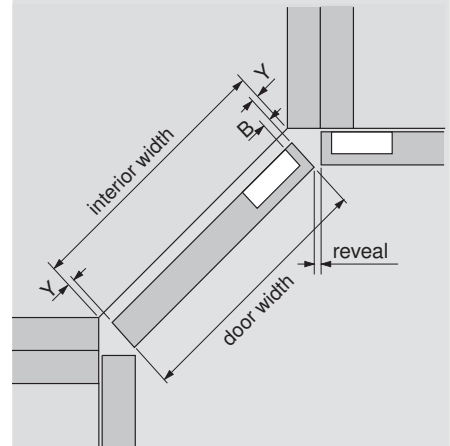
Calculating door width

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

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

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

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




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


H	Reveal			
0	6	5	4	3
	3	4	5	6
B = boring distance				

NOTE: Reveal based on 19 (3/4") side panel

Y = side gap			
5.5	4.5	3.5	2.5
3	4	5	6
B = boring distance			

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

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

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

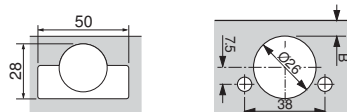
Abbreviations	
H	= Plate height
Y	= Side gap

CLIP top 95° mini hinges



Features

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



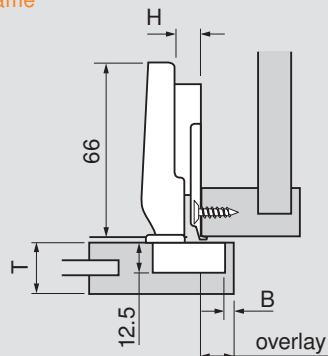
Minimum reveal table

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

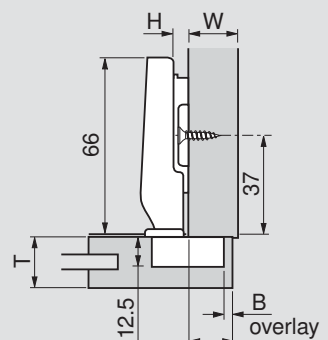
For thickness greater than 26 trial app. recommended

Overlay

Frame

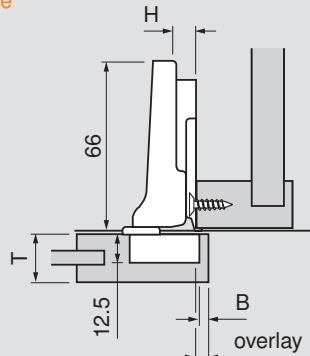


Panel

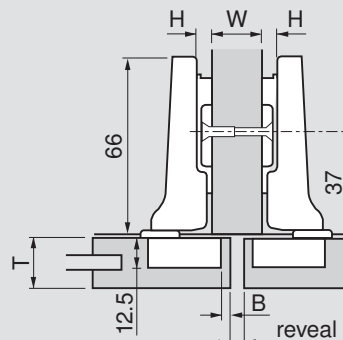


Partial/twin overlay

Frame

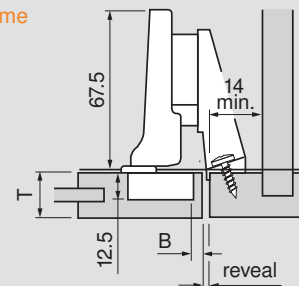


Panel



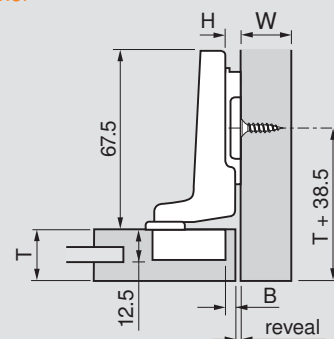
Inset

Frame



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

Panel



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

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

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

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

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

Abbreviations

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

Straight-arm	Self close
Screw-on	71T0550

Half-cranked	Self close
Screw-on	71T0650

Full-cranked	Self close
Screw-on	71T0750

CLIP top 95° glass door hinges



Features

- 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)

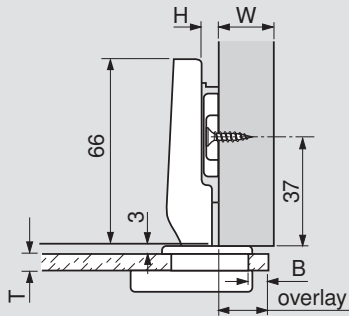
Minimum reveal table

	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				

For thickness greater than 7 trial app. recommended

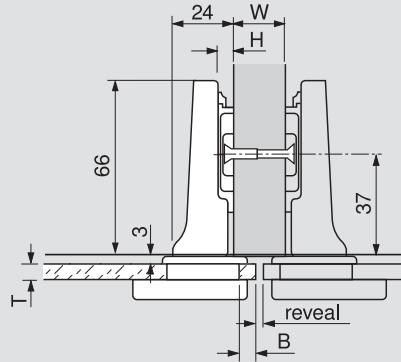
Overlay

Panel



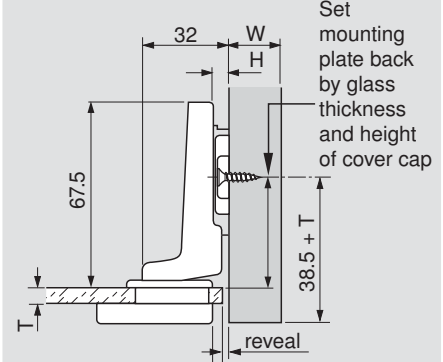
Partial/twin overlay

Panel



Inset

Panel

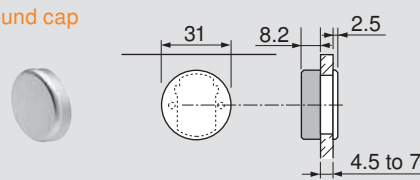


Cover caps for door front

D-shape cap



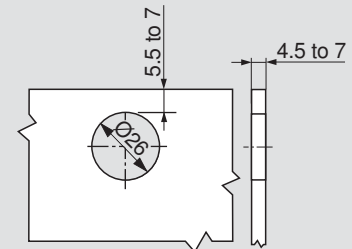
Round cap



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

	Part no.
D-shape cover cap	84.4120
Round cover cap	84.4140

Boring pattern



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

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

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

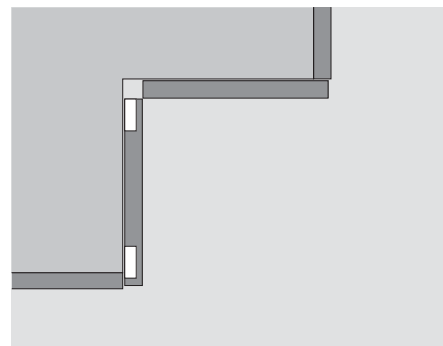
75T4300

CLIP top 60° bi-fold hinges



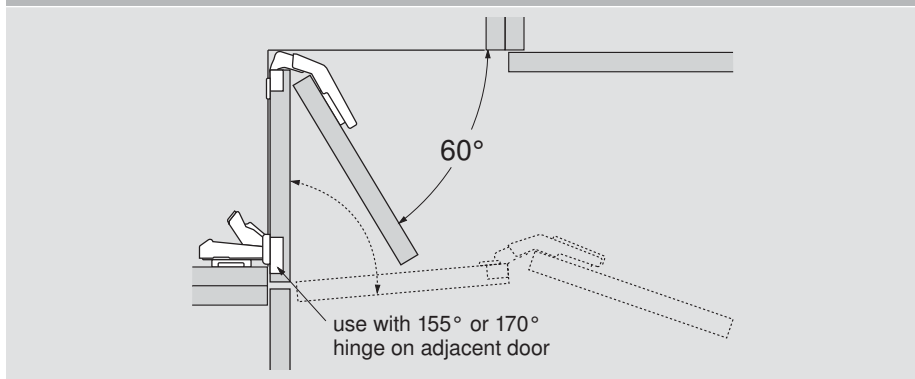
Features

- 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.

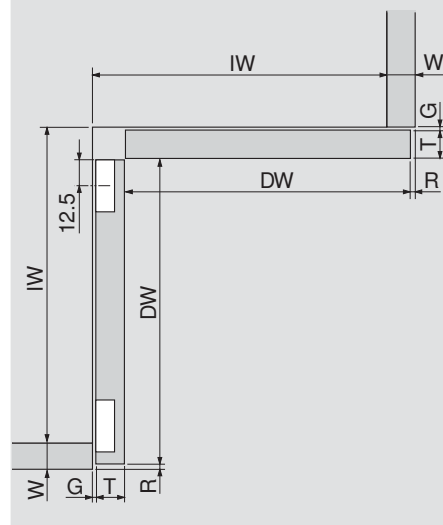
Step 1. Add the interior width to the side panel width (W)

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

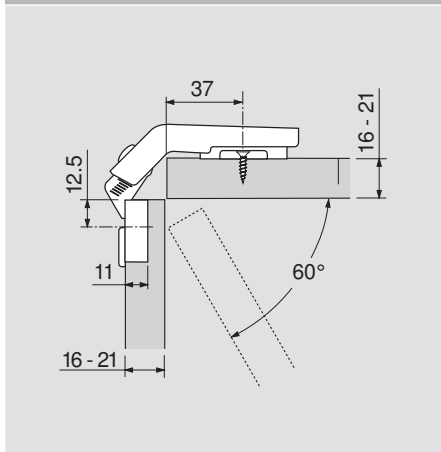
Step 3. Subtract gap (G) and bumper thickness behind adjacent door

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

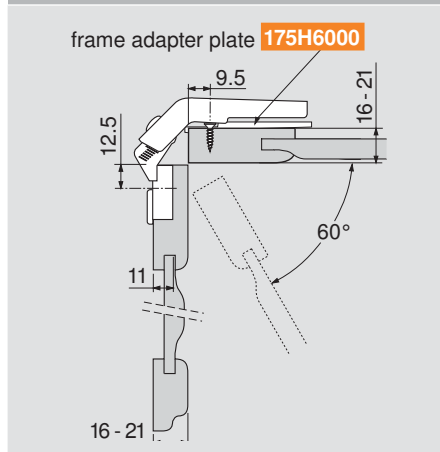
Example: $DW = (500 + 19) - 19 - 3 - 1$
 $DW = 496 \text{ mm}$



With flat panel doors

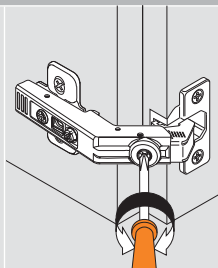


With profile doors

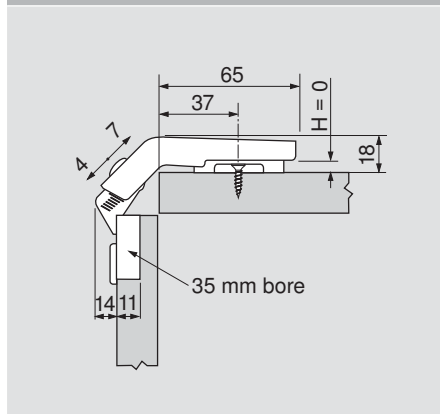


Adjustment

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



General specifications



Abbreviations

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

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

Euro hinge cover caps

Hinge arm cover cap



70.1503



70.1503.BP
(Blum logo)



70.1663



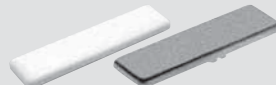
70.7503



70.1563



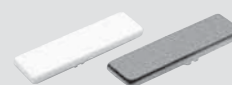
80.6507



90M2103.01



94M3203



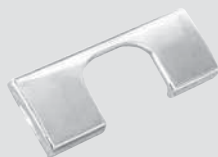
90M2203

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

NOTE: Custom logo cover caps available (minimums apply)

Hinge cup cover cap

- For use with CLIP top hinges only
- Suitable for screw-on, press-in and EXPANDO hinge cups for CLIP top 107°, 120°, 120°+, thick door and blind corner hinges
- Clip on attachment/removal
- Steel, nickel-plated



Part no.

Hinge cup cover cap

70T1504

Hinge cup cover cap

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



Part no.

Hinge cup cover cap

70T3504

3 mm spacer



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

Part no.

3 mm spacer

181.6130

Hinge cup spacer



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

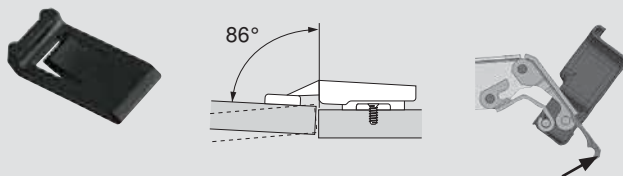
Part no.

Hinge cup spacer

70T3507.21

CLIP top and CLIP angle restriction clips

Angle restriction clip for 107° hinges



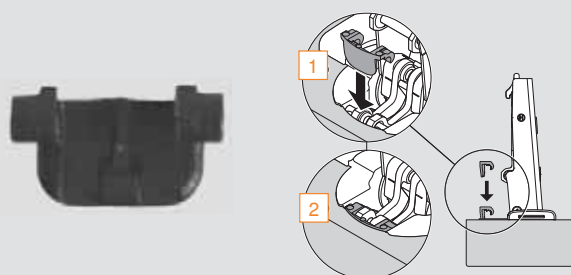
- Reduces opening angle of the CLIP top and CLIP 107° to 86°
- For use with CLIP top and CLIP 107° hinges only
- Installs quickly, easily and tool-free
- Non-removable
- Black nylon

Part no.

86° Angle restriction clip

74.1103

Angle restriction clip for 110° hinges



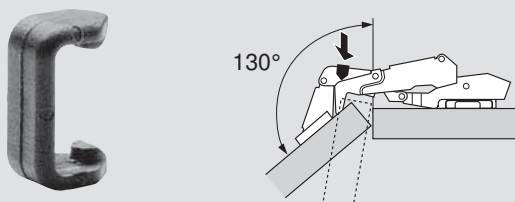
- Reduces opening angle of the CLIP top 110° and 110°+ to 86°
- For use with CLIP top 110° and 110°+ hinges only
- Installs quickly, easily and tool-free either before or after the hinge has been installed
- Black nylon

Part no.

86° Angle restriction clip

70T3553

Angle restriction clip for 170° hinges



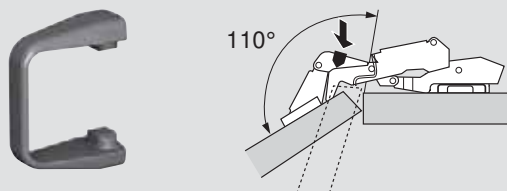
- Reduces opening angle of the CLIP top 170° to 130°
- Required for special applications of the 170° hinge
- Installs quickly, easily and tool-free
- Black nylon

Part no.

130° Angle restriction clip

70.6103

Angle restriction clips for 155° hinges



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

Part no.

110° Angle restriction clip

70T7503N

92° Angle restriction clip

70T7503N09

CLIP top angled hinges



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

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

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








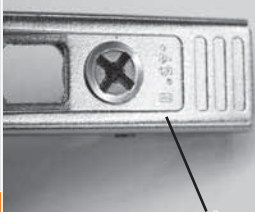
Step 1. On page 38, the angle-to-style cross-reference provides an overview of all the angled hinge applications available to assist with your specific application.

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

Step 3. Cross-reference the angle to the style to find the hinge/plate/wedge combination and the specification number. Specifications on pages 39 through 45 are in numerical order and show all the details.



Positive angle hinges

	Part no.		Part no.		Part no.		Part no.
+15°	79A9494BT	+20°	79A9595BT	+30° II*	79A9596BT1	+30° III*	79A9496BT
	Part no.		Part no.		Part no.		
+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°	79A5493BT	-30°	79A5491BT	-45°	79A5490BT

Standard thick door hinges used in angled applications

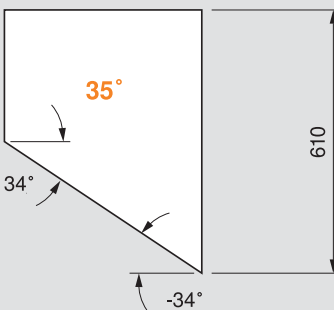
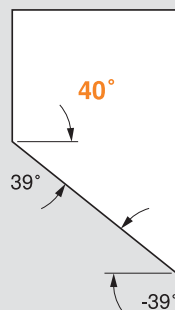
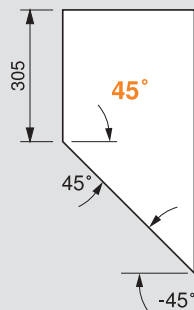
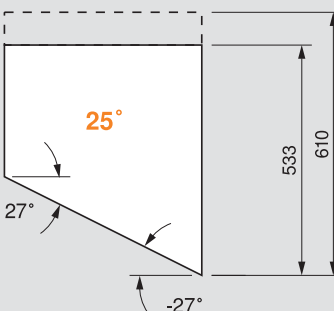
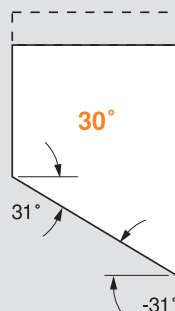
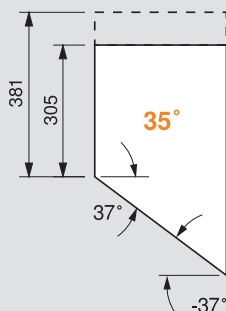
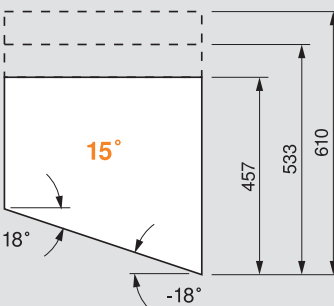
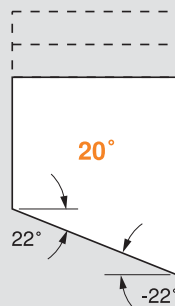
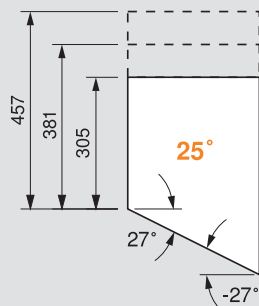
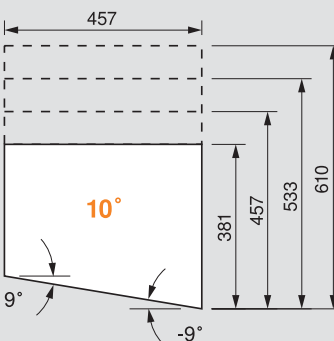
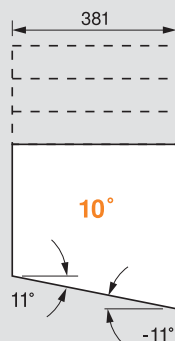
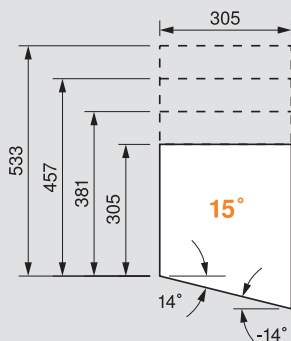
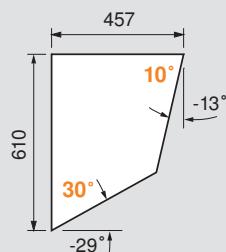
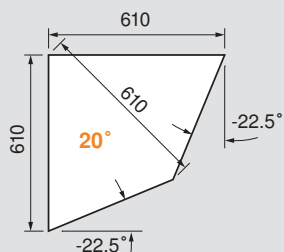
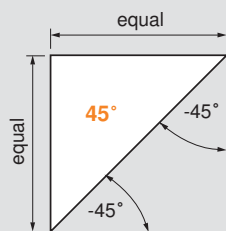
	Part no.		Part no.		Part no.
95° straight-arm	71T9590B	95° half-cranked	71T9690B	95° full-cranked	71T9790B

Angled spacer wedges for positive and negative angled hinges

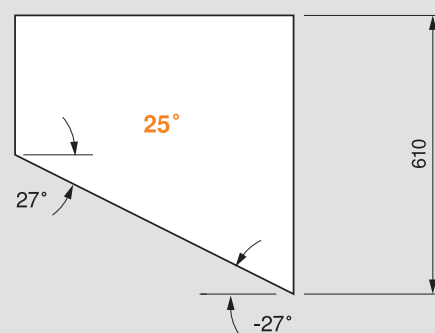
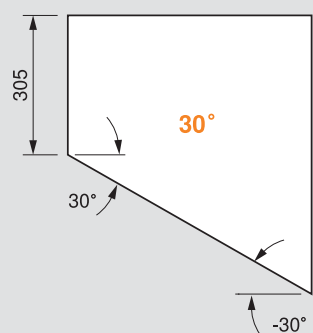
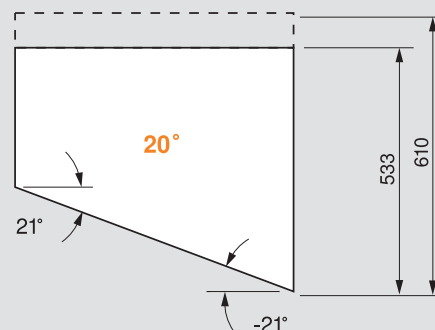
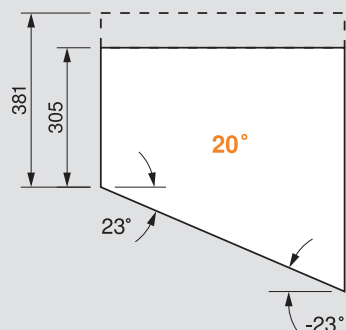
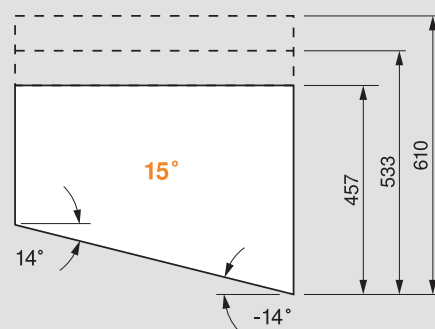
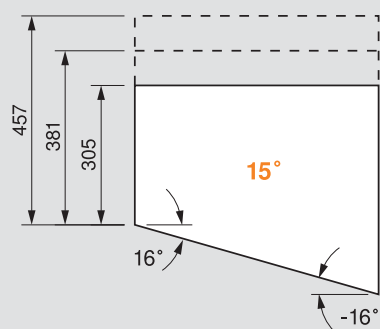
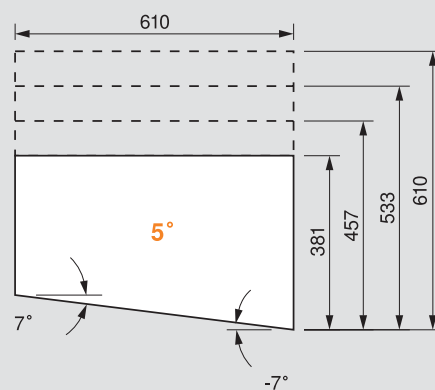
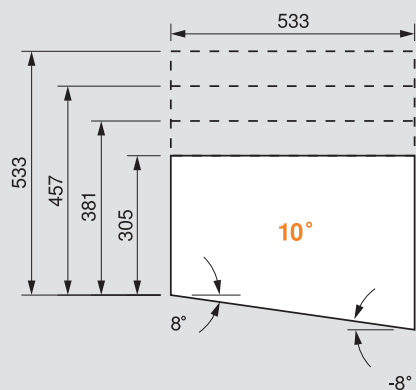
2 mm thickness	4 mm thickness	5 mm thickness	7 mm thickness
			
Part no.	Part no.	Part no.	Part no.
-5°	+5°	+5°	+5°
171A5500	171A5010	171A5040	171A5070

Angled cabinet configurations

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



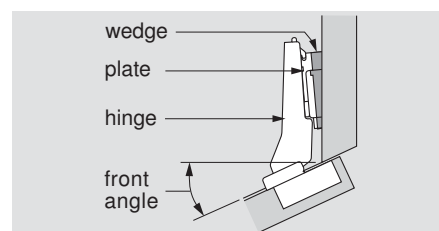
Match desired configuration to angle-to-style cross-reference chart on page 38










Angle-to-style cross-reference

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

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

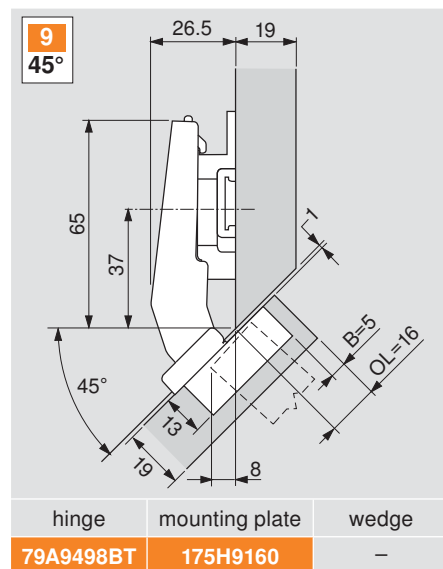
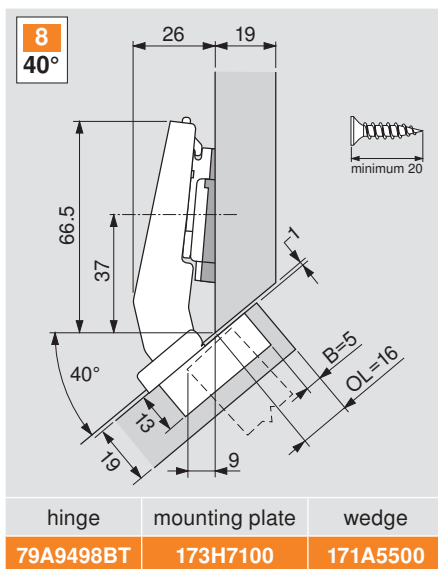
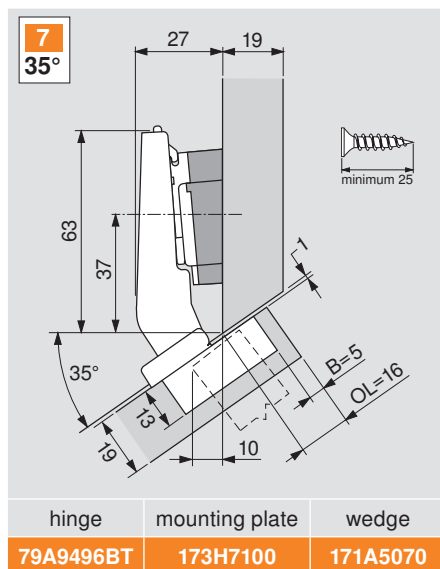
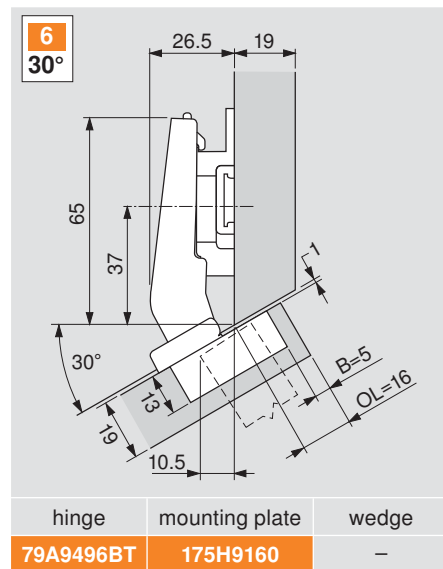
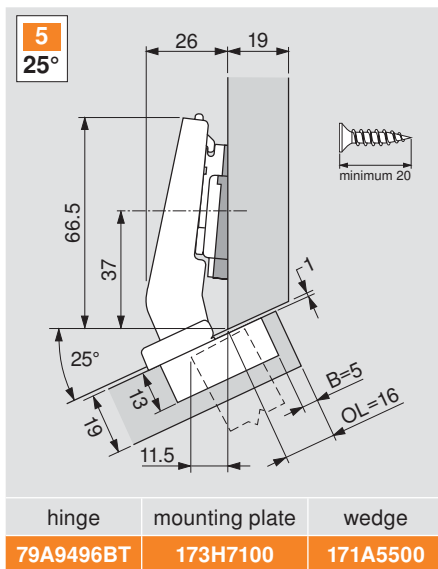
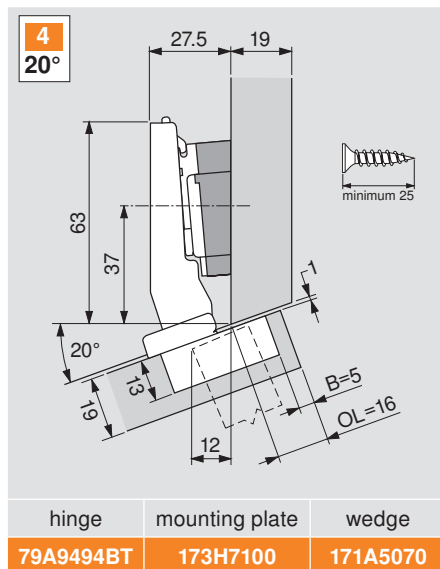
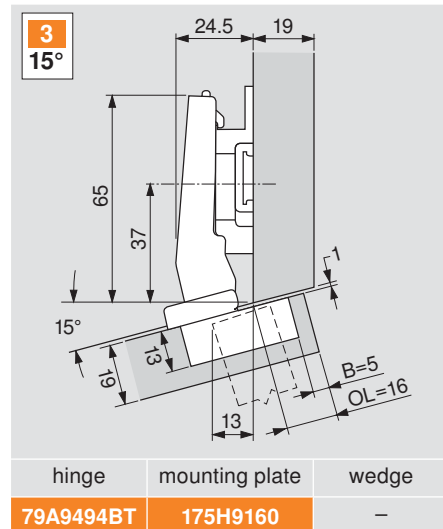
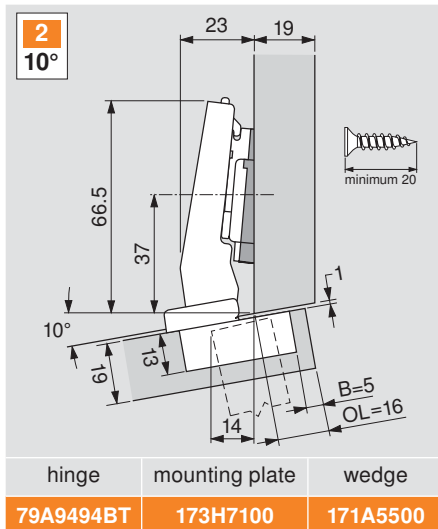
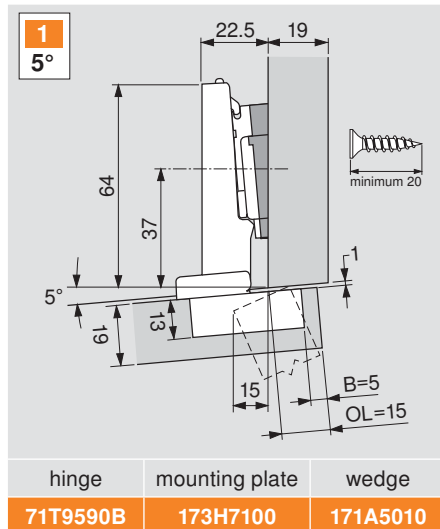


	Positive angles					Negative angles				
										
	maximum overlay	partial overlay	corner merge	inset door	mitered corner		maximum overlay	inset door		
5°	1	10	19	27		-5°	42	51		
	71T9590B	71T9590B	71T9690B	71T9790B			71T9590B	71T9690B		
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100		
	171A5010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

Maximum overlay specifications



Positive angle applications

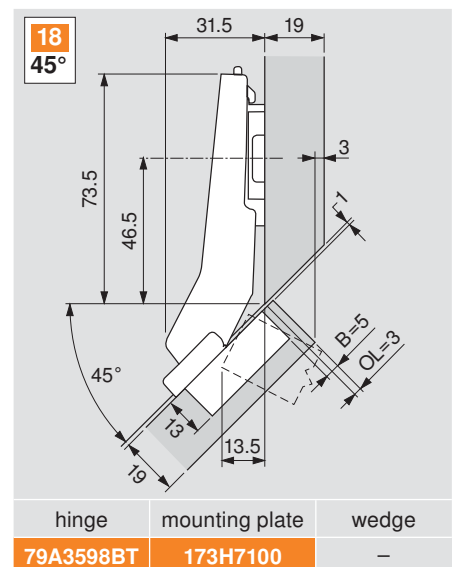
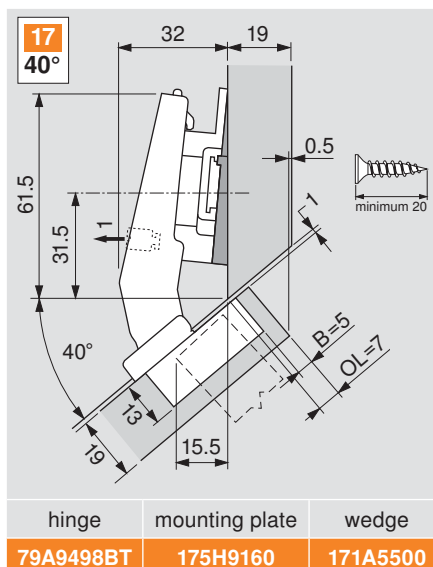
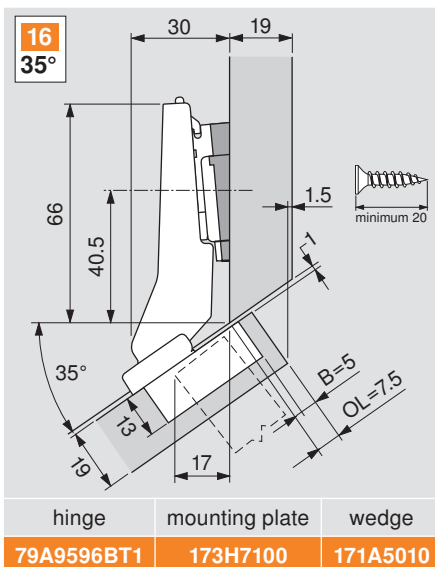
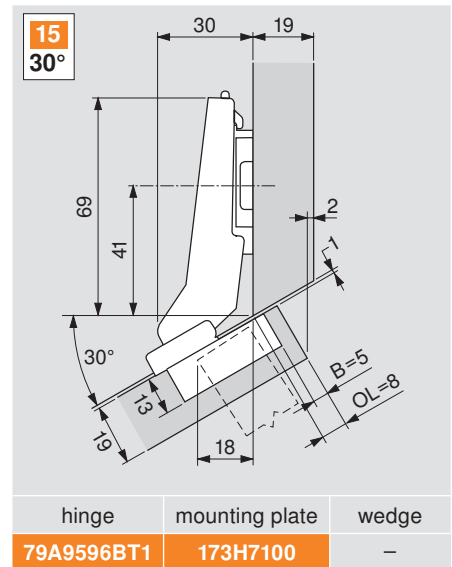
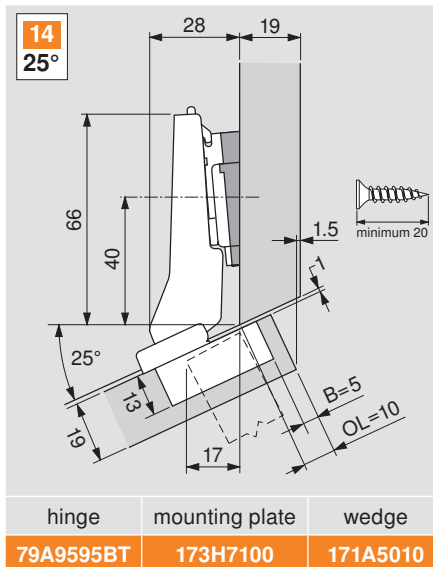
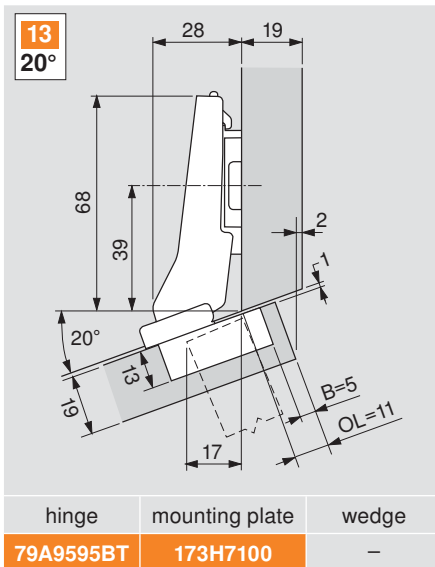
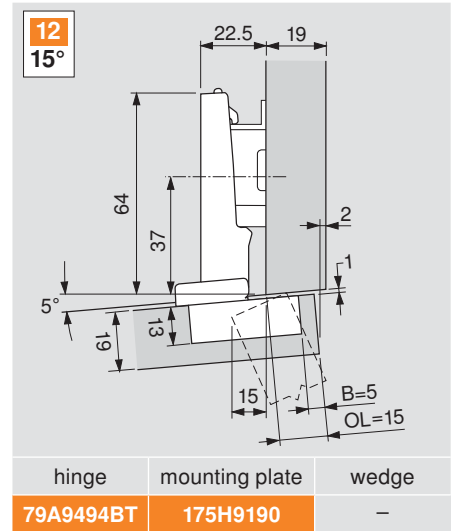
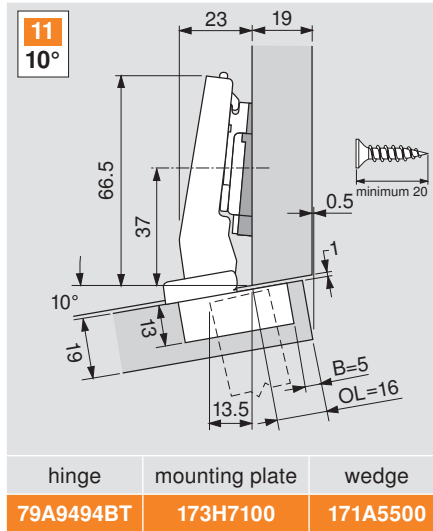
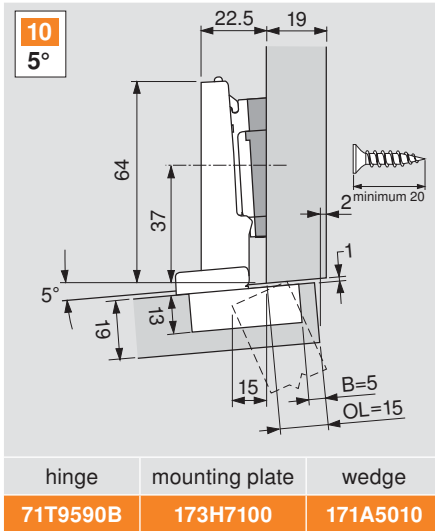


Angled

Partial overlay specifications



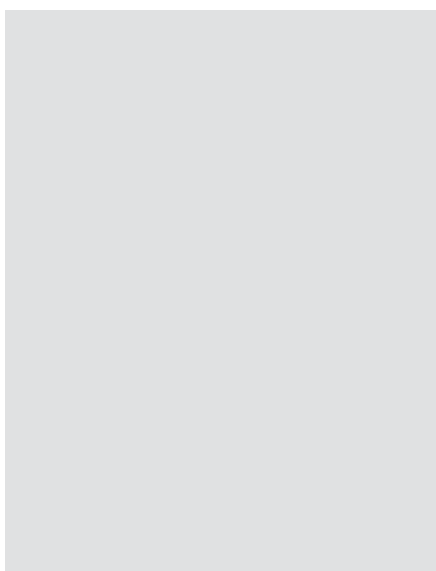
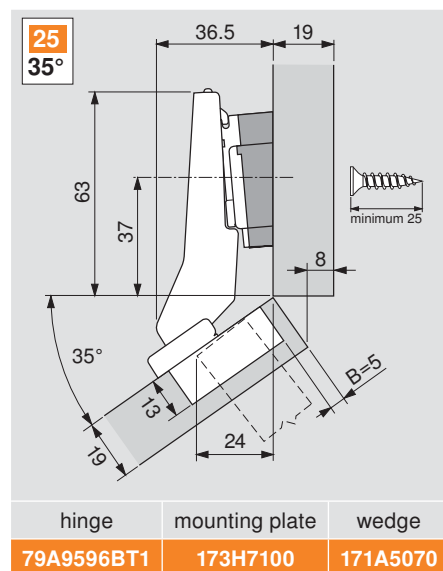
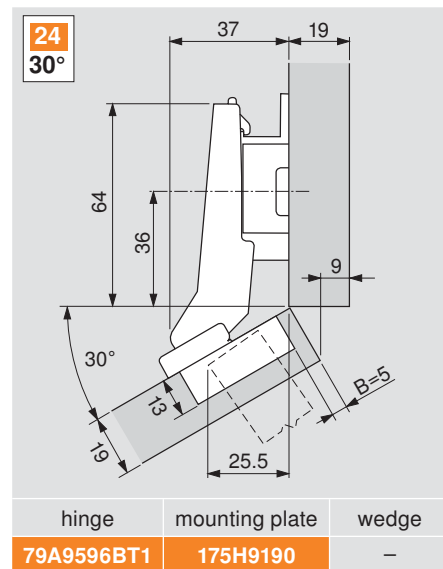
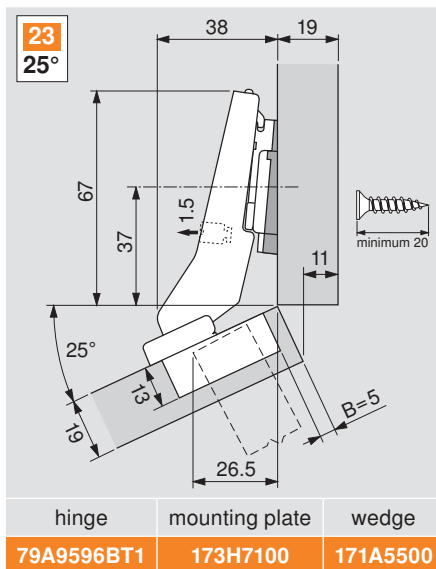
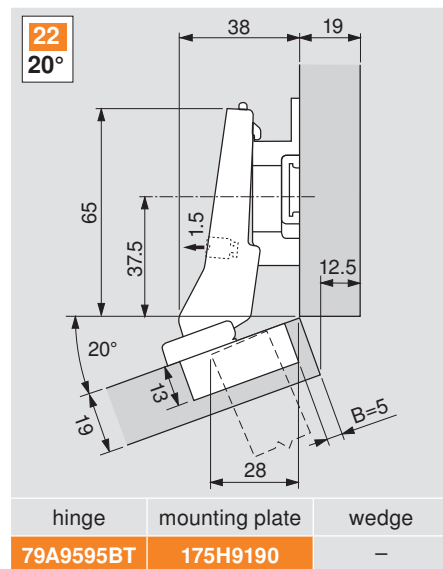
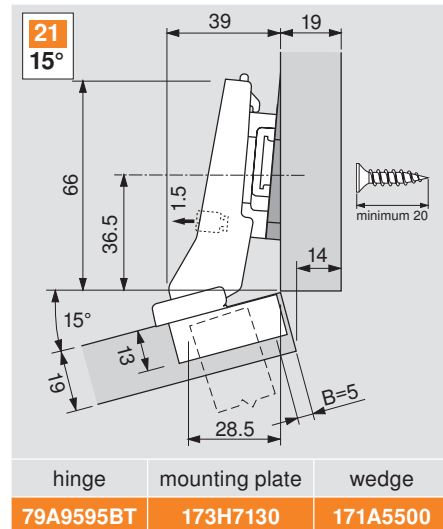
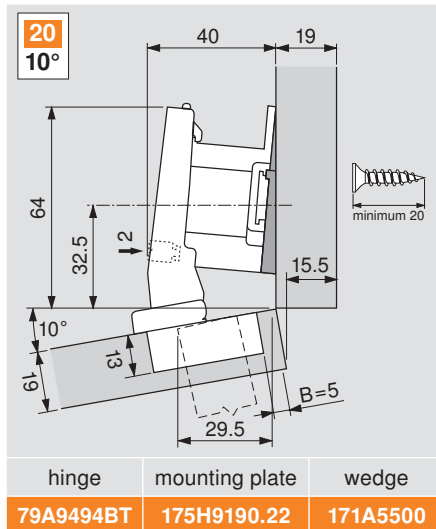
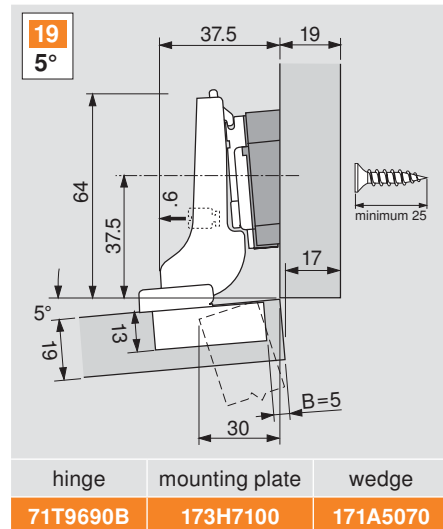
Positive angle applications



Corner merge specifications



Positive angle applications

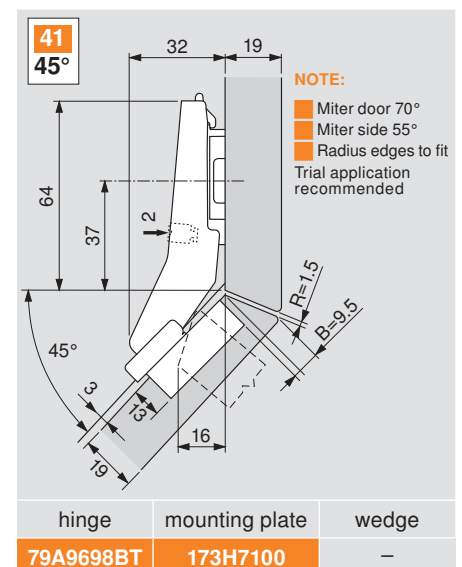
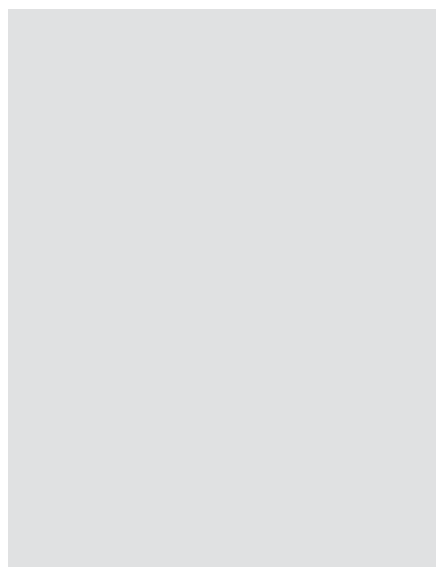
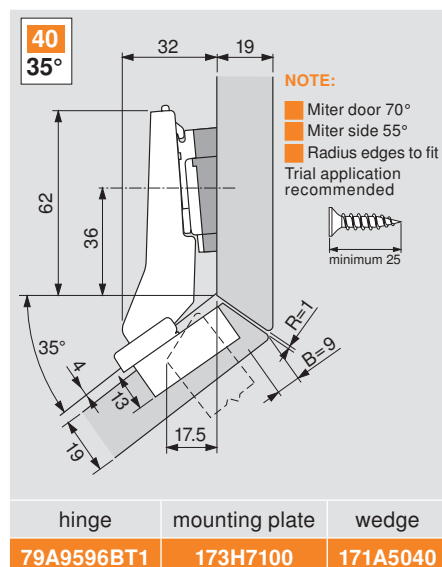
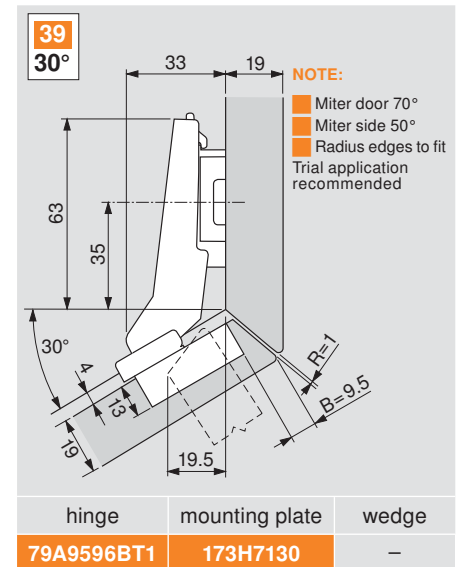
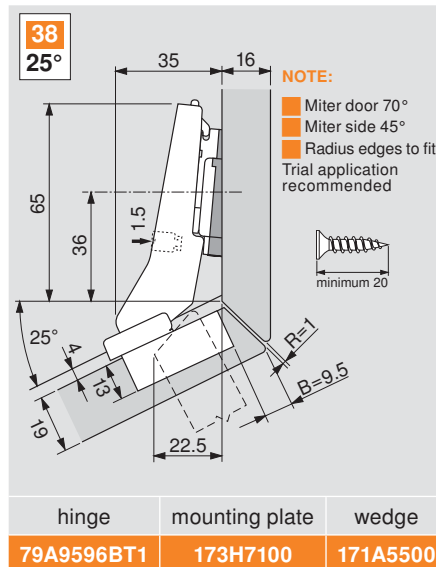
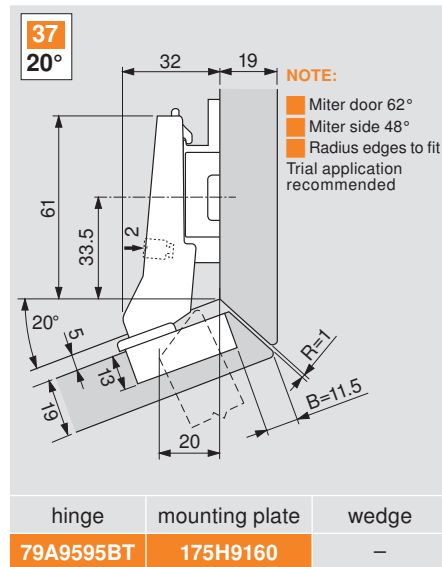
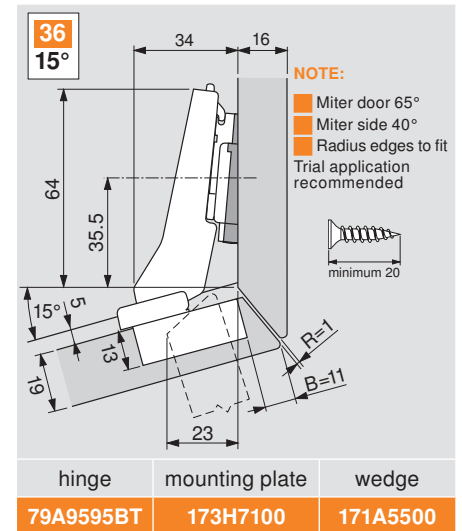
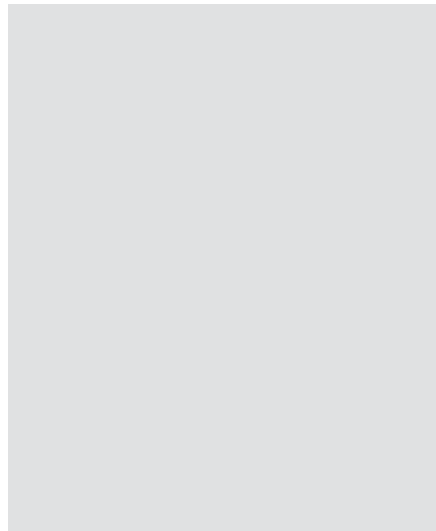
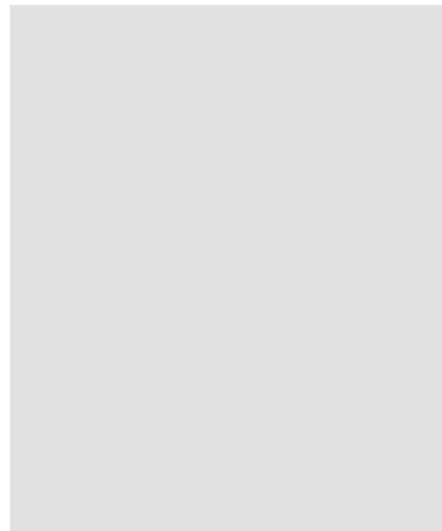


Angled

Mitered corner specifications



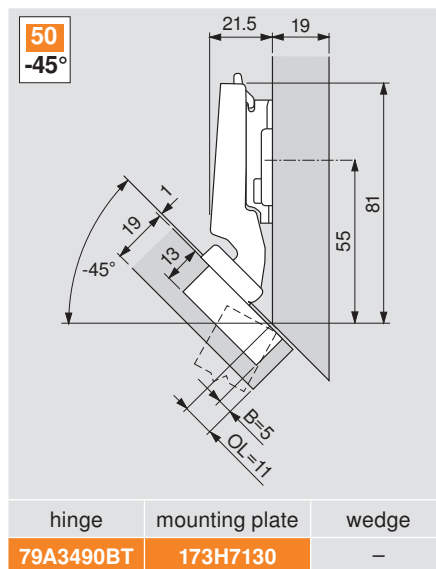
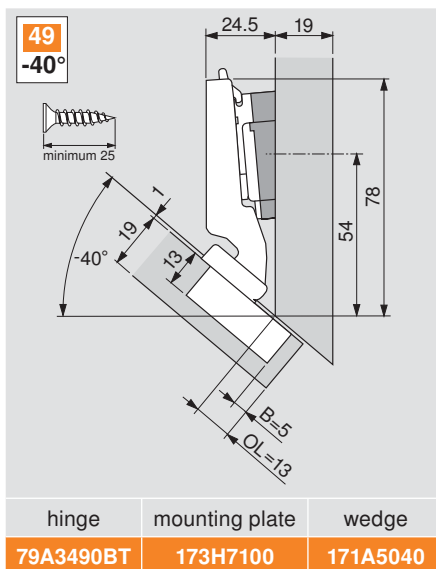
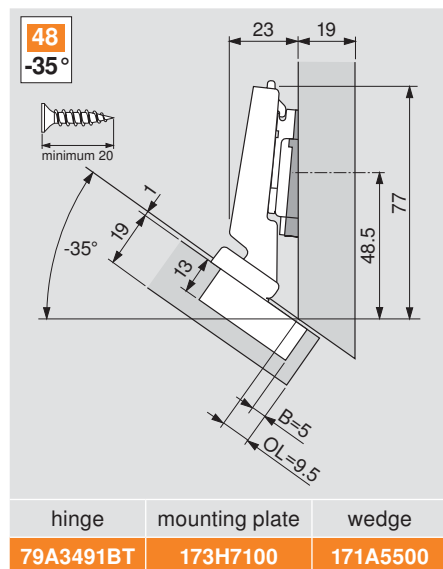
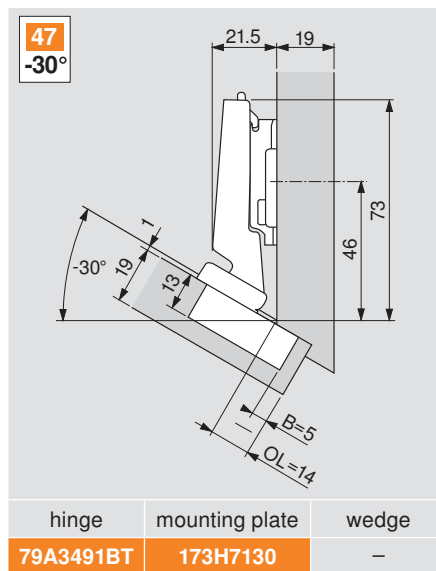
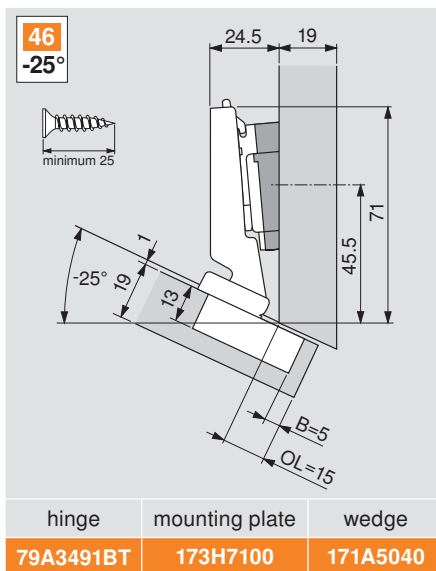
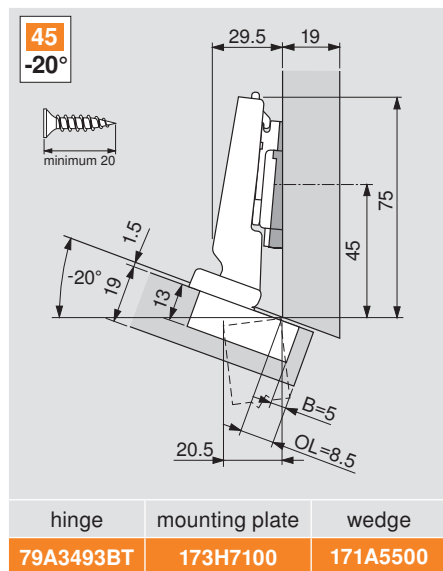
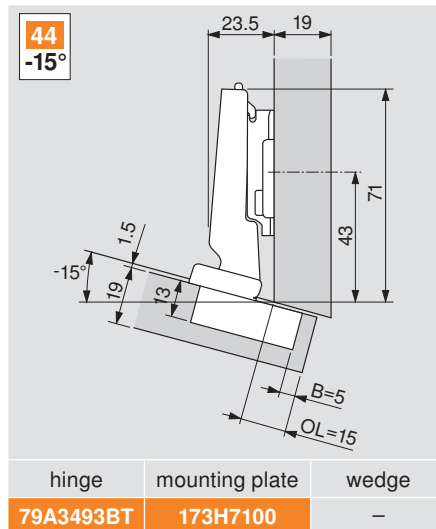
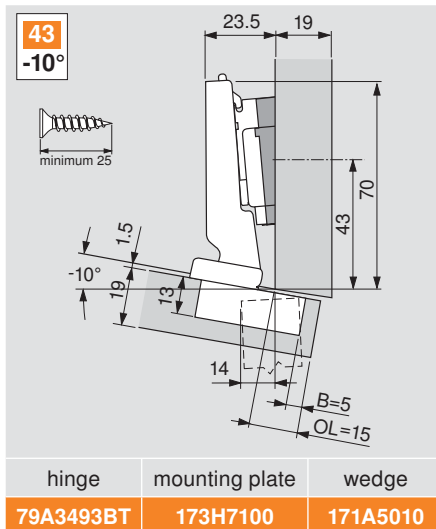
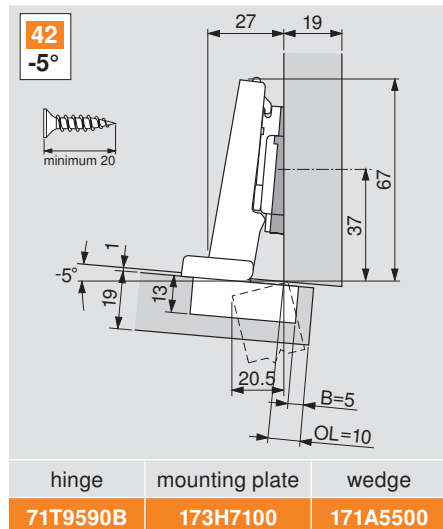
Positive angle applications



Maximum overlay specifications



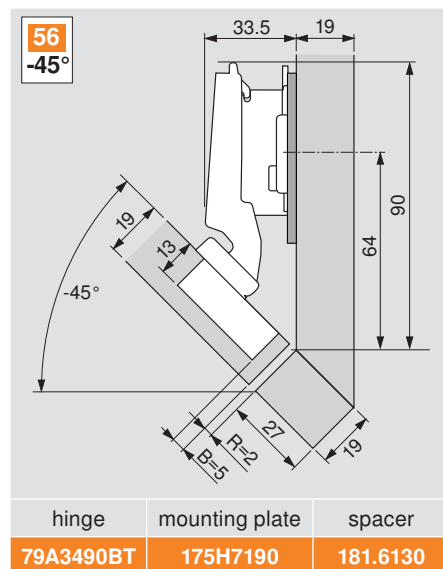
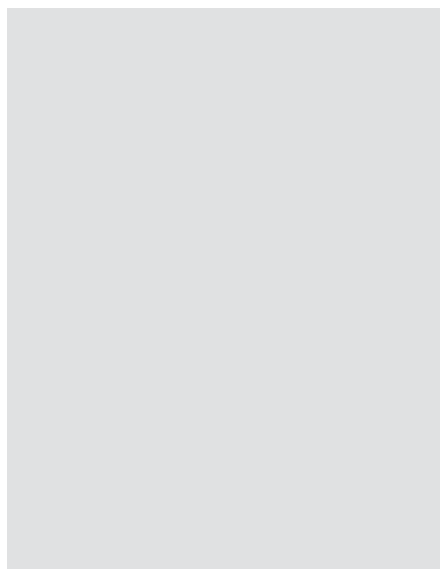
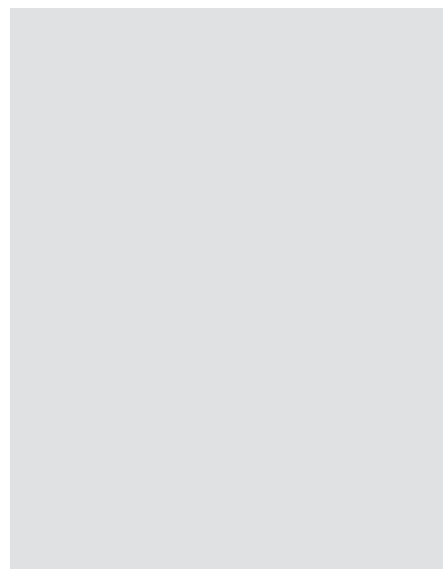
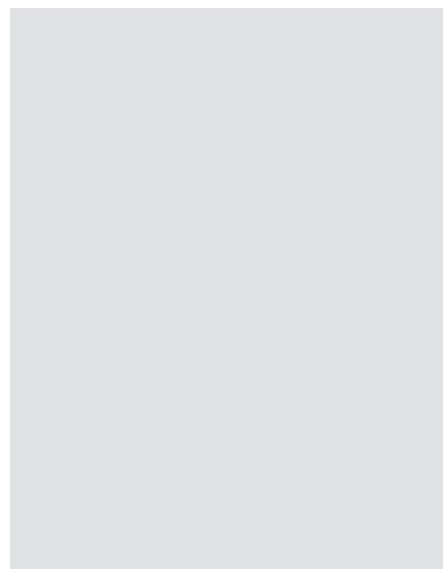
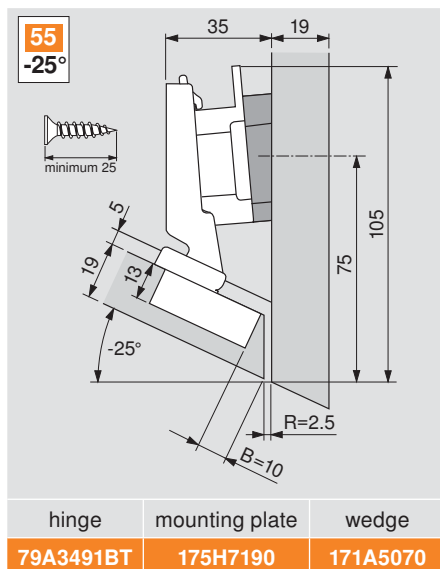
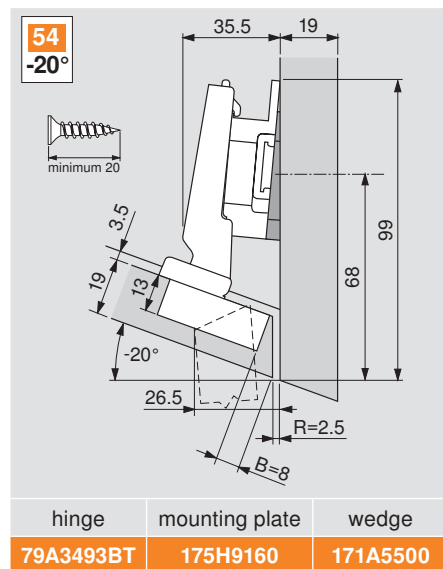
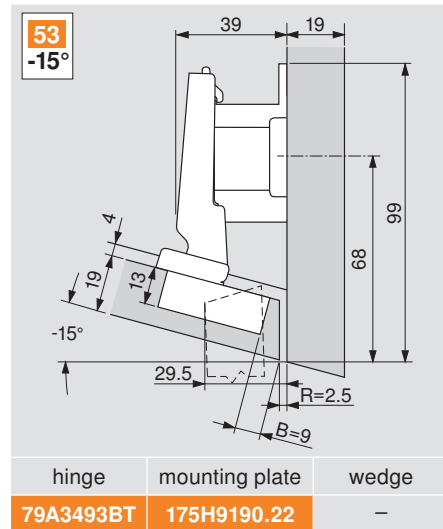
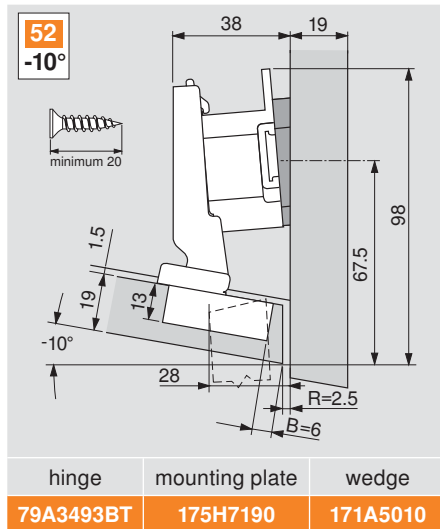
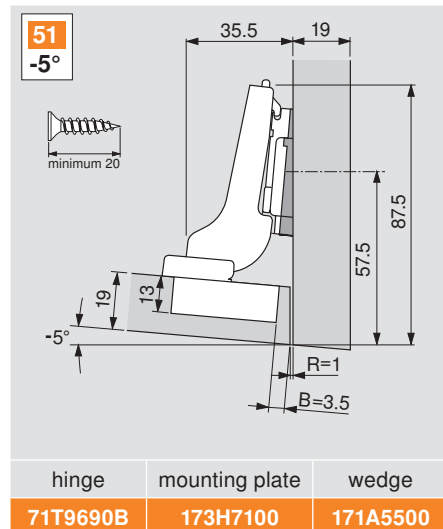
Negative angle applications



Inset door specifications



Negative angle applications



CLIP 100° hinges



Features

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

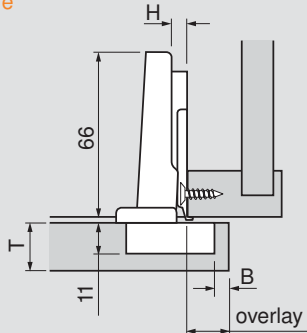
Minimum reveal table

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

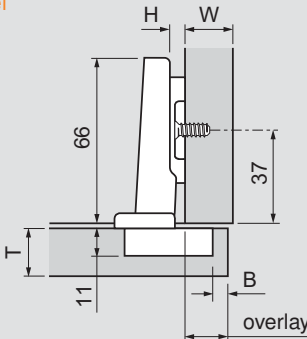
For thickness greater than 24 trial app. recommended

Overlay

Frame

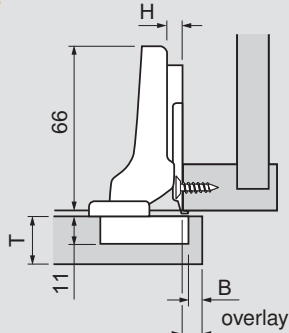


Panel

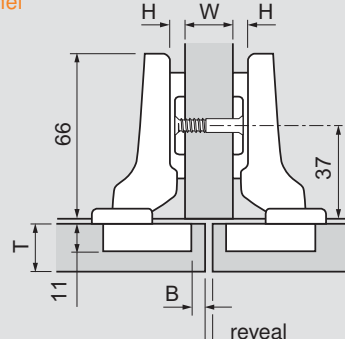


Partial/twin overlay

Frame

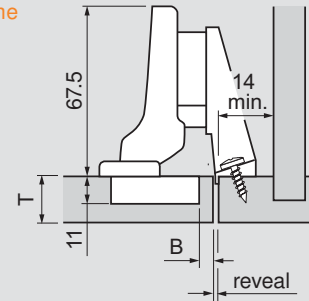


Panel



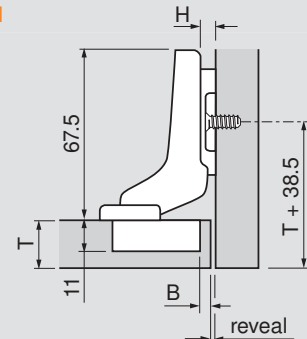
Inset

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

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

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

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

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

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

CLIP 107° hinges



Features

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

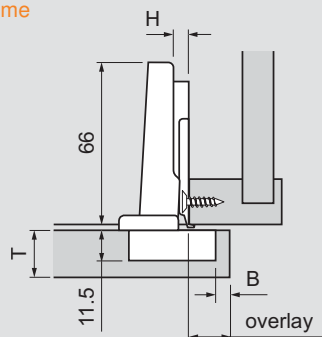
Minimum reveal table

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

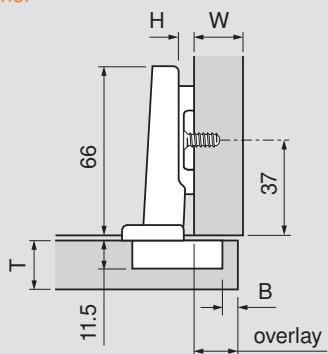
For thickness greater than 22 trial app. recommended

Overlay

Frame

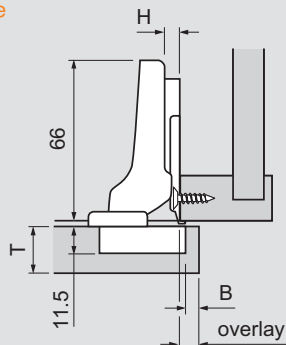


Panel

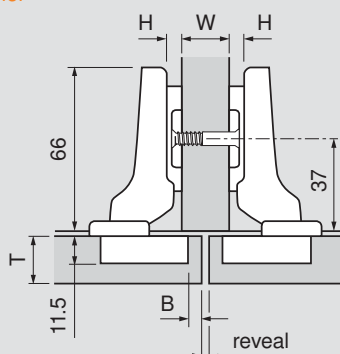


Partial/twin overlay

Frame

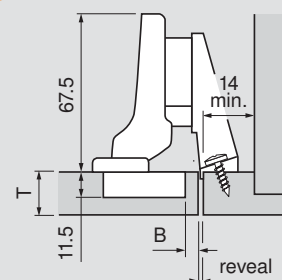


Panel



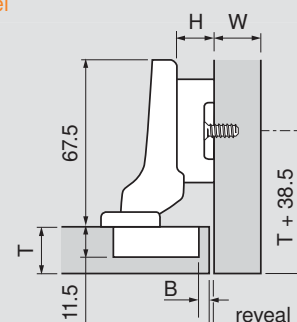
Inset

Frame



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

Panel



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

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

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

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

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

Abbreviations

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

Straight-arm	Self close
Press-in	75M1580

Half-cranked	Self close
Press-in	75M1680

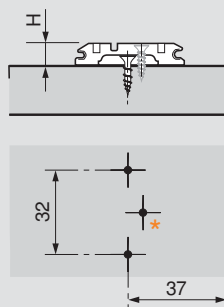
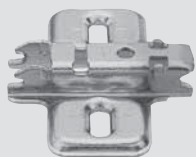
Half-cranked	Self close
Press-in	75M1680

CLIP mounting plates



Standard one-piece wing mounting plates

Wood screw

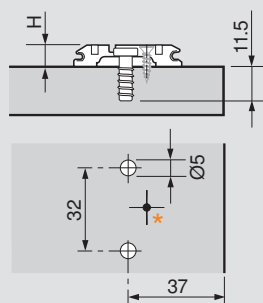


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 3 mm

Part no.

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

System screw

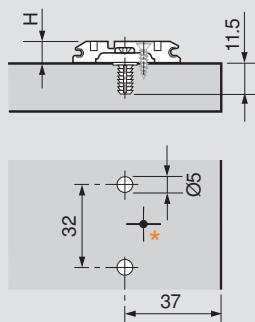


- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment ± 3 mm

Part no.

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

EXPANDO

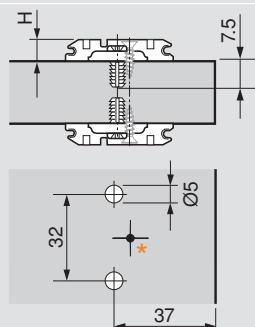


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment ± 2 mm

Part no.

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

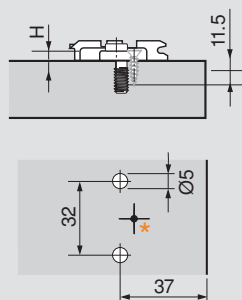


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment ± 2 mm

Part no.

0 plate height (H)	174E610Z
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System screw



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

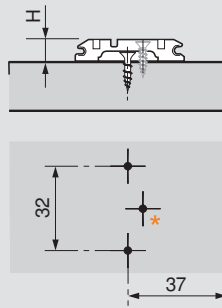
Part no.

0 plate height (H)	175L8100
3 plate height (H)	175L8130
9 plate height (H)	175L8190

*Add additional wood screw if used with wide angled hinges

Cam adjustable wing mounting plates

Wood screw

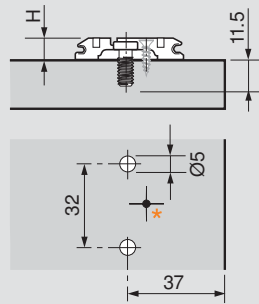


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm

Part no.

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

System screw

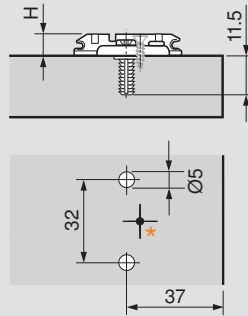


- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H) **173H9100**3 plate height (H) **173H9130**

EXPANDO

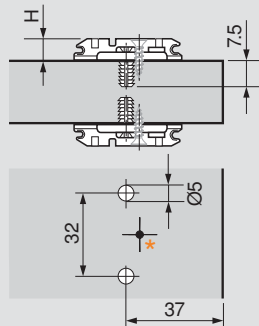


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ± 2 mm

Part no.

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

EXPANDO (twin application)

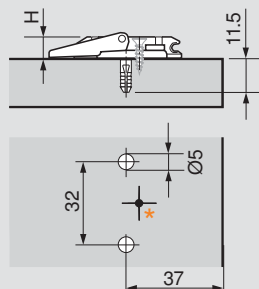


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment ± 2 mm

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**

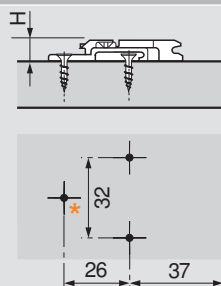
*Add additional wood screw if used with wide angled hinges

CLIP mounting plates



Standard two-piece wing mounting plates

Wood screw

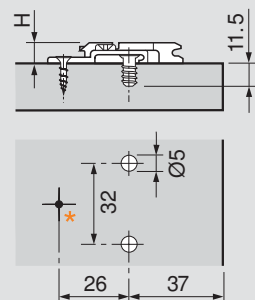


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 2 mm

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

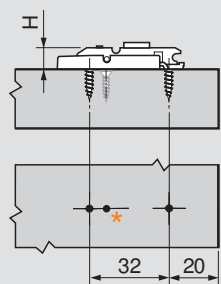
Part no.

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

*Add additional wood screw if used with wide angled hinges

Cam adjustable In-line mounting plates

Wood screw

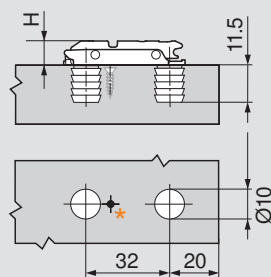


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

0 plate height (H)	175H3100
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Press-in

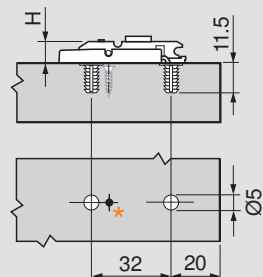


- Steel, nickel-plated
- Pre-attached with 10 mm dowels
- Cam height adjustment ± 2 mm
- Use of insertion ram MZM.0053 required

Part no.

0 plate height (H)	177H3100
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EXPANDO



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

Part no.

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

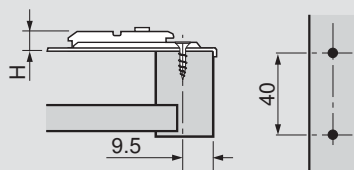
*Add additional wood screw if used with wide angled hinges

Face frame adapter plates



Face frame adapter plates

Cam adjustable center mount

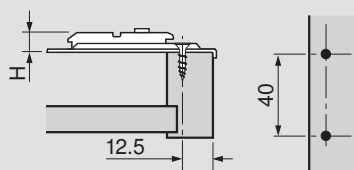


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Cam height adjustment ± 2 mm
- 175H6000 not for use with INSERTA hinges

Part no.

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

Cam adjustable off-center mount

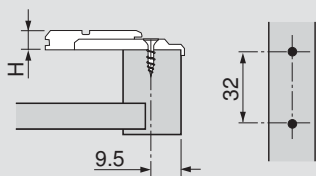


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount 12.5 (1/2")
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	175H6600
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Center mount

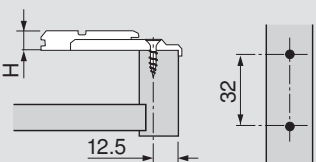


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Height adjustment ± 2 mm

Part no.

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

Off-center mount

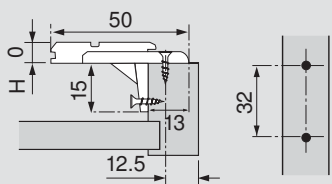


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount 12.5 (1/2")
- Height adjustment ± 2 mm

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

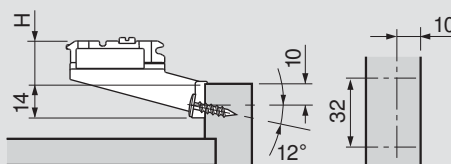
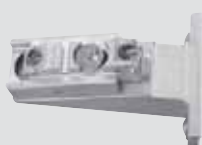
Part no.

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



Soft closing solutions for every application

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

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

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

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



Hinge planning tools

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

Planning tools are easily accessible on our website at blum.com/planning



BLUMOTION for doors overview for Euro hinges



Recommended
BLUMOTION

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

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

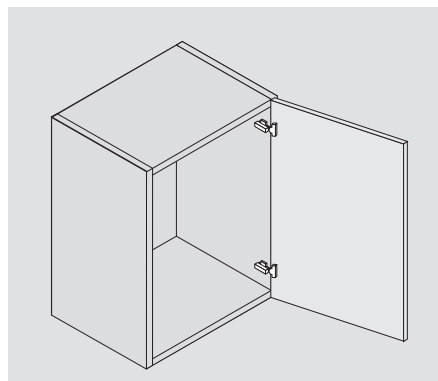
 155°	 100°	 120°	 95°	 95°	 95°	 95°/110°
Zero protrusion hinge	Standard hinge	Aluminum door hinge	Glass door hinge	Mini hinge	Blind corner hinge – overlay and inset	Angled hinges: +30 II, +45 I, +45 II
Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate	Straight-arm hinge, 0 plate				
973A7000	973A0500.01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

BLUMOTION 973A for CLIP top and CLIP hinges

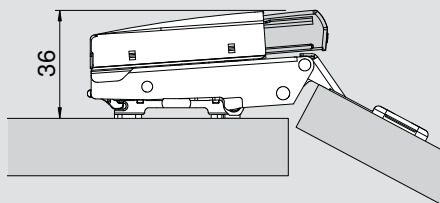


Features

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



For straight-arm hinges



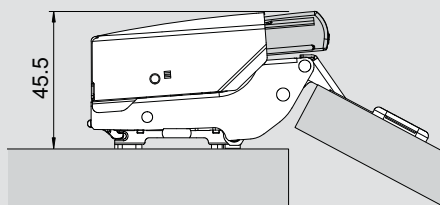
- CLIP top 107°
- CLIP top 110°
- CLIP top 110°+
- CLIP top 120°
- CLIP top 120°+
- CLIP top 95° thick door
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

Part no.

Straight-arm

973A0500.01

For half-cranked arm hinges



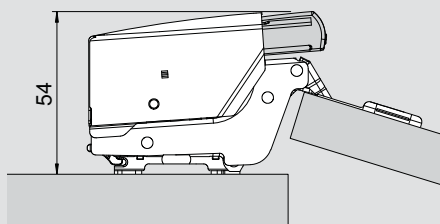
- CLIP top 110°
- CLIP top 120°
- CLIP top 95° thick door
- CLIP 100°
- CLIP 107°

Part no.

Half-cranked arm

973A0600

For full-cranked arm hinges



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

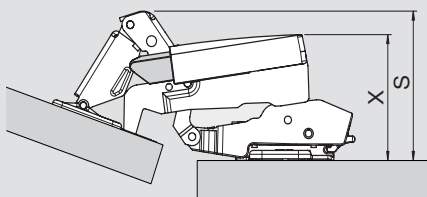
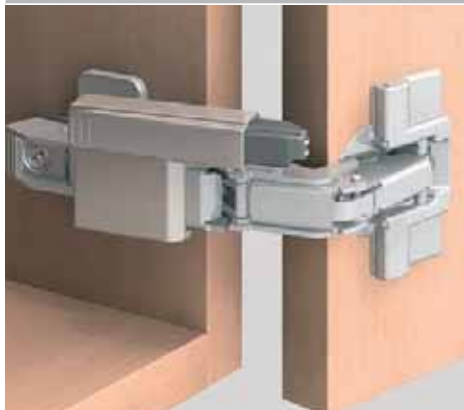
Part no.

Full-cranked arm

973A0700

Specifications

For 170° hinges



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

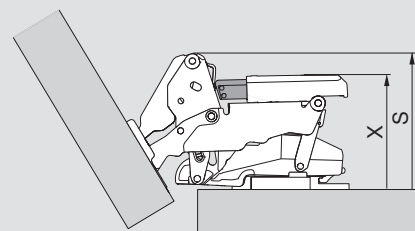
- CLIP top 170° – straight-arm
- CLIP top 170° – half-cranked

Part no.

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

973A6000

For 155° hinges



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

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

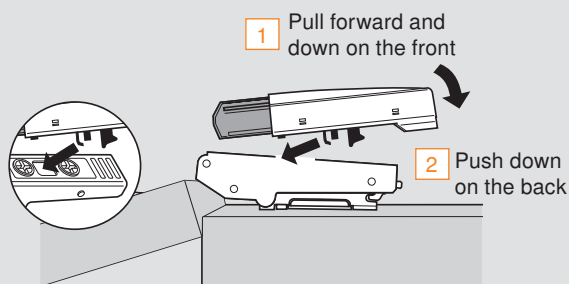
Part no.

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

973A7000

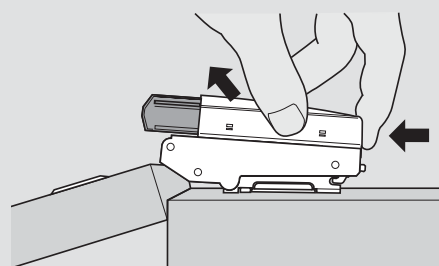
Attachment

Attach to the square hole in the hinge arm



Removal

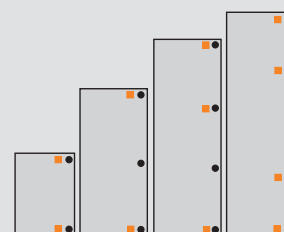
Pull forward and up simultaneously



BLUMOTION per door

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

- BLUMOTION 973A
- Hinges



BLUMOTION 971A for Euro hinges

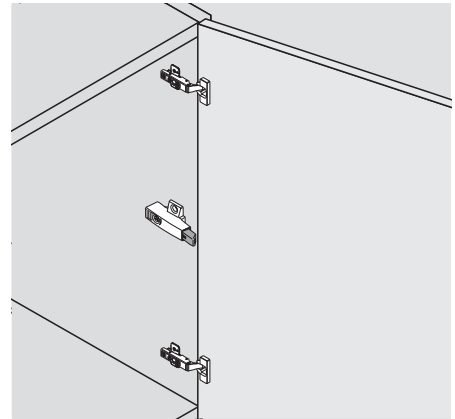
Product



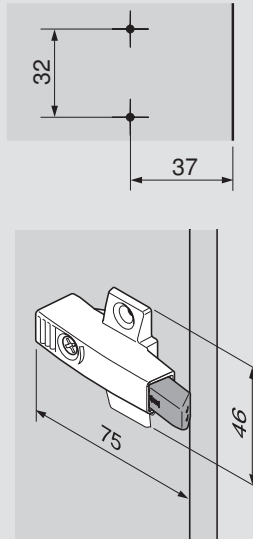
Description

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

Application



Wing plate (screw-on)

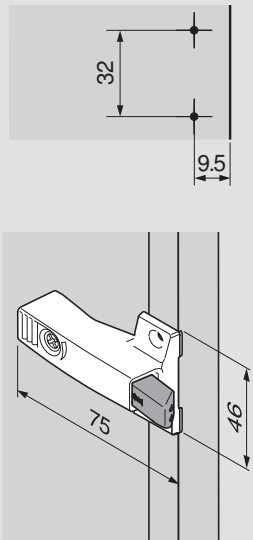


- 37 mm setback, 32 mm apart
- Attach with #6 x 5/8" wood screws

Part no.

0 mm	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

Part no.

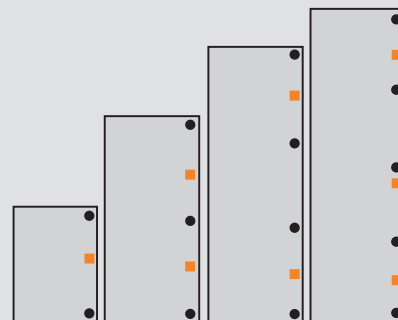
0 mm	971A0700
3 mm	971A2700
Installation screw	606N or 606P

Specifications

BLUMOTION per door

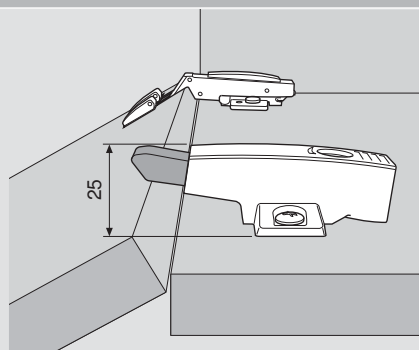
- For optimum BLUMOTION effect, BLUMOTION 971A should be installed onto the hinge-side panel centered between the two hinges
- Tall or heavy doors may require an additional BLUMOTION 971A between the hinges
- Trial application recommended

■ BLUMOTION 973A
● Hinges



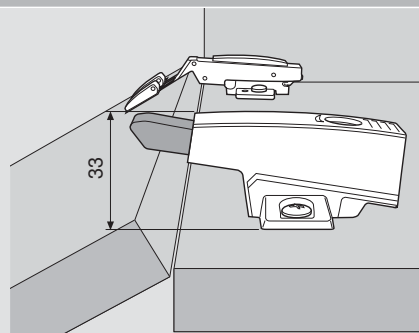
0 mm BLUMOTION application

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



3 mm BLUMOTION application

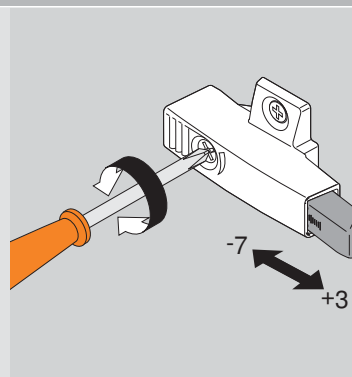
For all hinges with a straight-arm and a 3 mm mounting plate



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

Adjustment

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



BLUMOTION 970A for Euro hinges

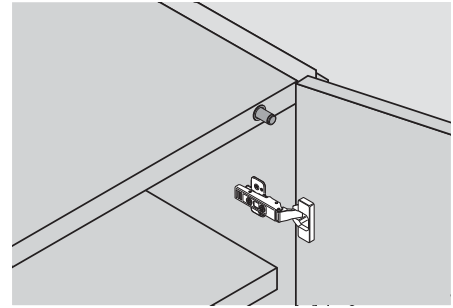
Product



Description

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

Application



BLUMOTION 970A



Part no.

BLUMOTION 970A

970A1002

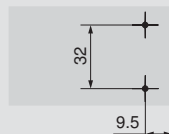
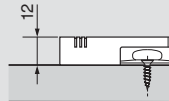
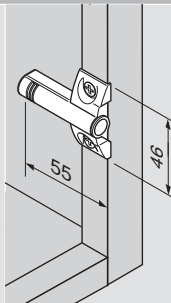
BLUMOTION per door

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

- BLUMOTION 973A
- Hinges



Face frame adapter (screw-on)



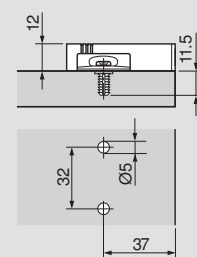
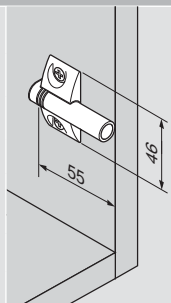
- 9.5 mm setback, 32 mm apart
- Can also be used in panel cabinets
- Attach with #6 x 5/8" wood screws
- Nickel-plated steel

Part no.

Screw-on 970.5701

Installation screw 606N or 606P

37/32 mm adapter (EXPANDO)

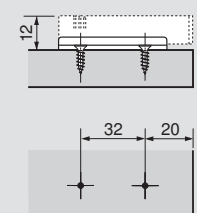
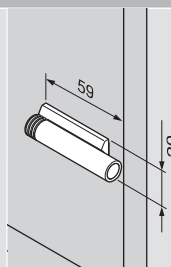


- 37 mm setback, 32 mm apart
- EXPANDO version installs with pre-attached screws
- Nickel-plated steel

Part no.

EXPANDO 970.55E1

In-line adapter (screw-on)

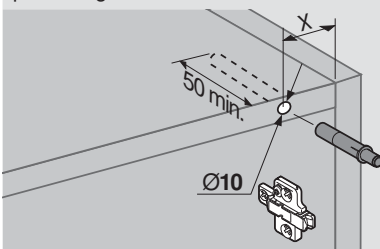


- 20 mm setback, 32 mm apart
- Two-piece design
- Attach with #6 x 5/8" wood screws
- Nickel-plated steel and gray nylon


Part no.

Screw-on 970.5201



Installation screw 606N or 606P

BLUMOTION 970A	Standard applications	For angled applications						
<p>The charts below provide the boring distance based on the application and mounting plate height</p> 	<p>boring distance (X) in mm</p> <table><tr><td>3 mm</td><td>35</td></tr></table> <p>mounting plate height</p>	3 mm	35	<p>boring distance (X) in mm</p> <table><tr><td>35</td><td>48</td></tr></table> <p>application, refer to pages 38 to 45</p> <table><tr><td>35</td><td>20°</td></tr></table>	35	48	35	20°
3 mm	35							
35	48							
35	20°							






Standard application

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

Blind corner applications

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

Angled applications (reference angle applications page 38 to 45)

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





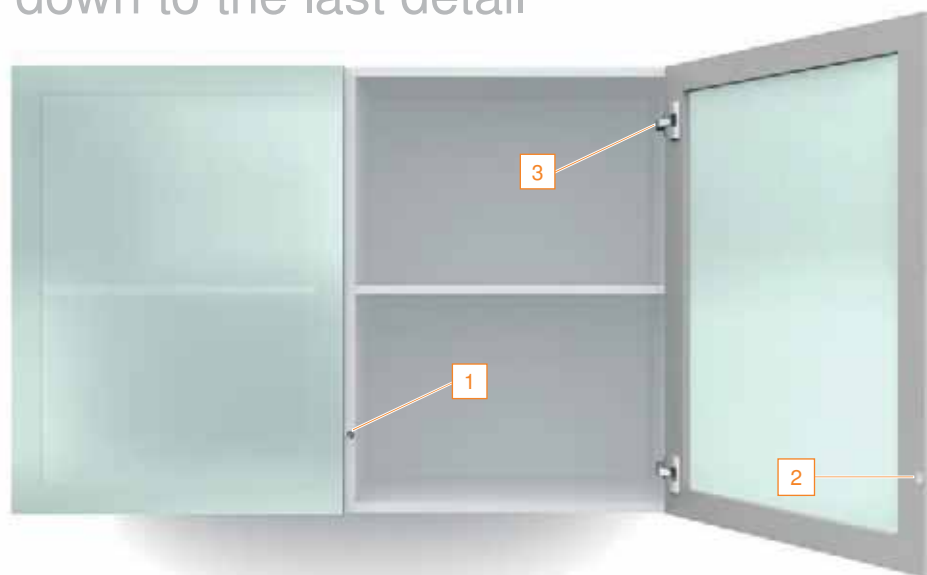
Opening comfort for doors without handles

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

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

TIP-ON for doors program

High **quality**
down to the last detail



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



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



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



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

Adjustments



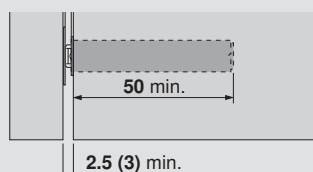
A minimum door gap of 2.5 mm should be planned when using the self-adhesive catch plate. The screw-on catch plate requires a minimum of 3 mm.

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

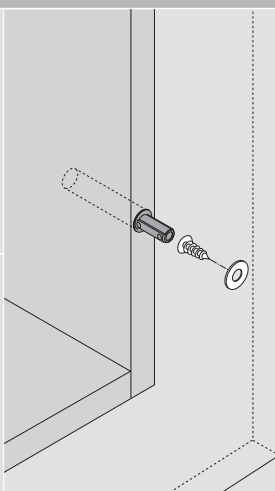
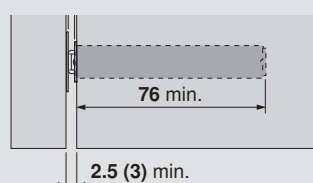
For adapter plate assembly (in-line or wing adapter plates), the door gap can be adjusted to a minimum of 1.5 mm.

TIP-ON boring specifications

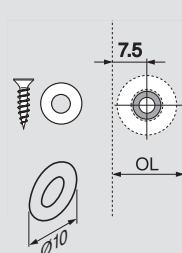
Standard TIP-ON set



Large TIP-ON set



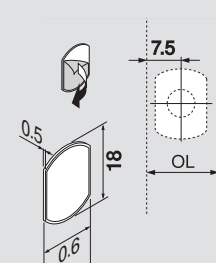
Catch plate (screw-on)



Pre-boring Ø2.5 mm countersunk pilot holes required

OL = Door overlay

Catch plate (self-adhesive)

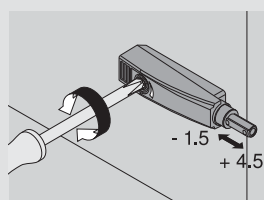
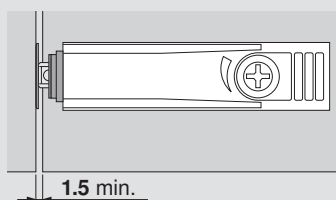


Cleaning of the door surface is recommended

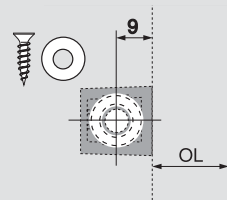
NOTE: Minimum gap of 2.5 mm with a self-adhesive catch plate or 3 mm with a screw-on catch plate

TIP-ON in-line and wing adapter plate specifications

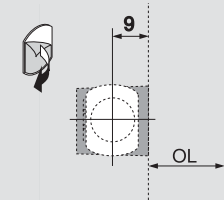
In-line adapter plate



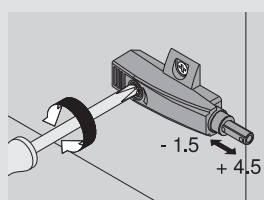
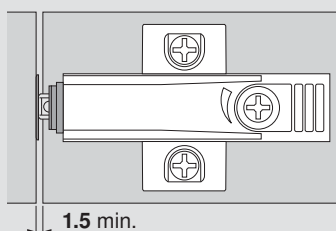
Catch plate (screw-on)



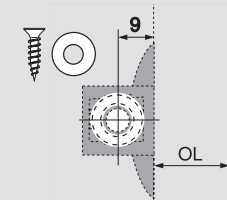
Catch plate (self-adhesive)



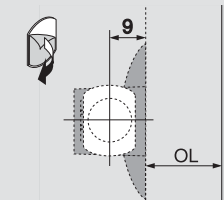
Wing adapter plate



Catch plate (screw-on)



Catch plate (self-adhesive)



NOTE: Factory setting of door gap is 2 mm

Pre-boring Ø2.5 mm countersunk pilot holes required

OL = Door overlay

Cleaning of the door surface is recommended

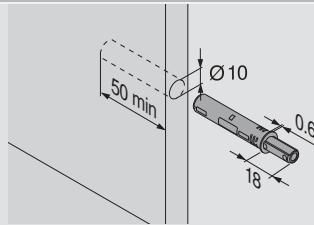
NOTE: Minimum gap of 2.5 mm with a self-adhesive catch plate or 3 mm with a screw-on catch plate

Components

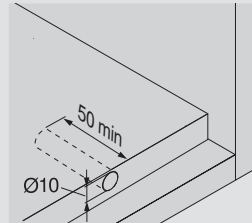
TIP-ON set for standard doors



Overlay



Inset



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

Set includes:

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

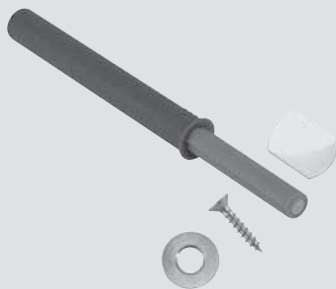
Part no.

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

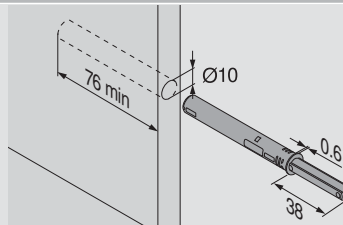
Standard door set

955.1004

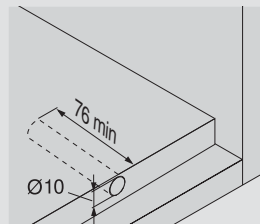
TIP-ON set for large doors



Overlay



Inset



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

Set includes:

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

Part no.

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

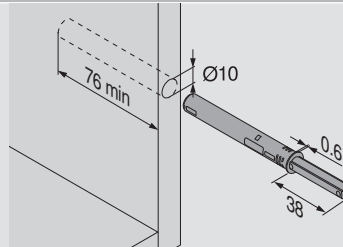
Large door set

955A1004

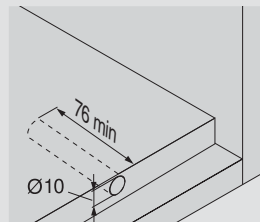
TIP-ON for self closing hinges



Overlay



Inset



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

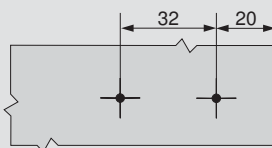
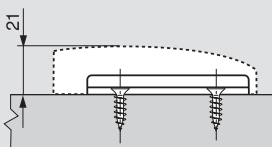
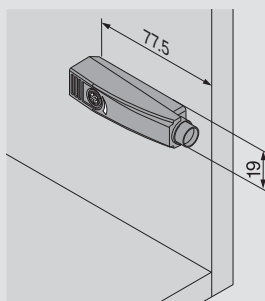
Part no.

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

Self closing hinges

955A1006.01

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



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

Application	Setback
Overlay	20
Inset	22 + door thickness

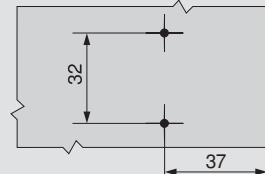
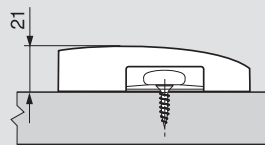
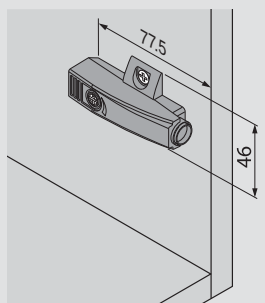
Part no.

Screw-on in-line adapter 955.1201

Installation screw 606N or 606P

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

TIP-ON wing adapter plate (screw-on)



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

Application	Setback
Overlay	37
Inset	39 + door thickness

Part no.

Screw-on in-line adapter 955.1501

Installation screw 606N or 606P

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



Face frame hinges for the life of your cabinet

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

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



Hinge planning tools

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

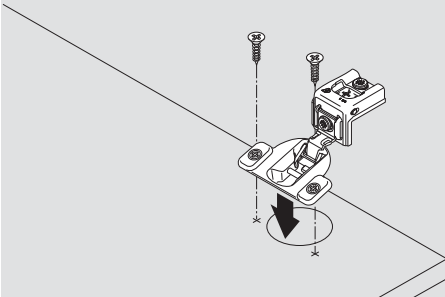
Planning tools are easily accessible on our website at blum.com/planning



COMPACT general specifications

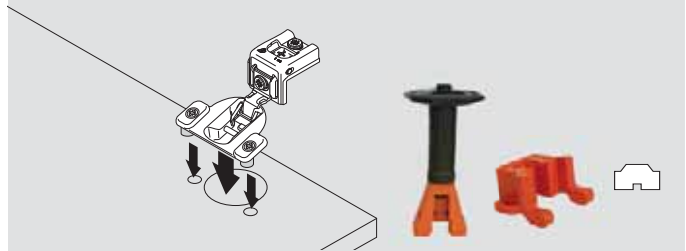
Screw-on hinge attachment

Use #6 wood screws



Press-in hinge attachment

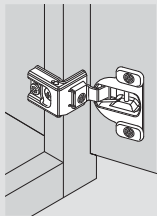
Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.



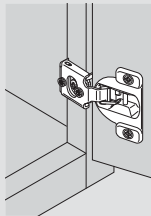
Mounting plate attachment

One-piece assembly

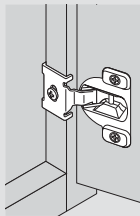
COMPACT 39C/38C
wraparound



COMPACT 38N
wrap or edge

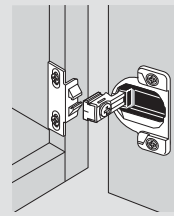


COMPACT 38.
wrap or edge

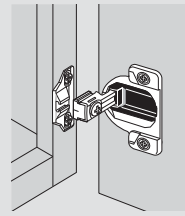


Two-piece assembly

COMPACT 33
edge mount

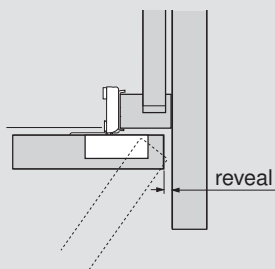


COMPACT 33
face mount



Minimum reveal

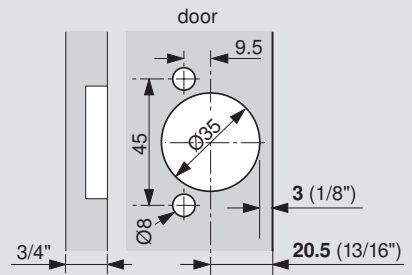
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see minimum reveal table for each hinge).



Hinge cup centerpoint

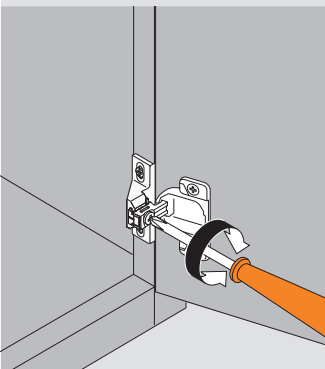
Cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT hinges.

NOTE: Maximum door thickness 3/4"



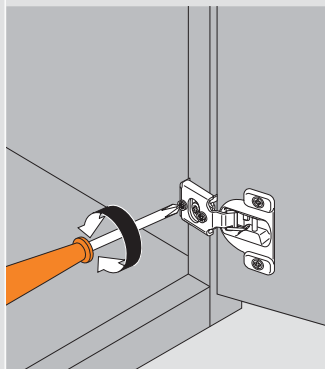
Three-way independent adjustment

Side adjustment



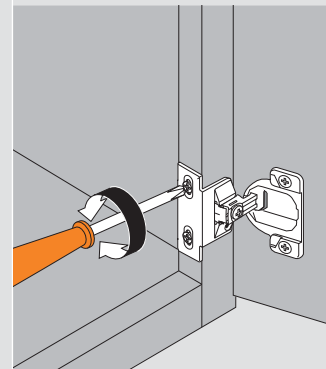
Side adjustment is possible on all COMPACT hinges except 38. series. COMPACT 39C, 38C and 38N have cam side adjustment.

Depth adjustment



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

Height adjustment



All COMPACT hinges are independently height adjustable.

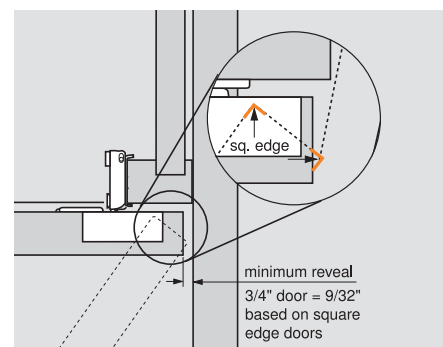
COMPACT 38N hinges for partial overlay



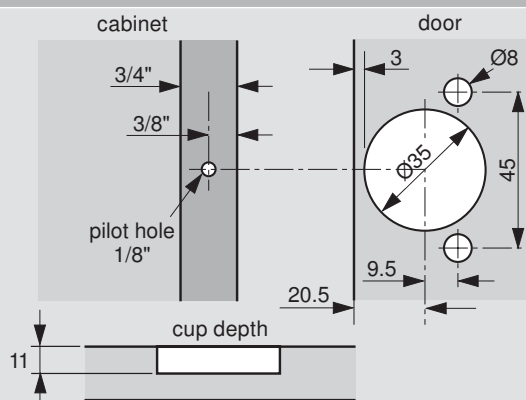
Features

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

Minimum reveal

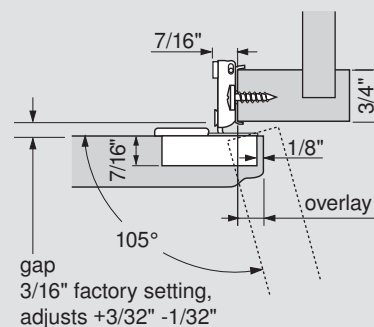


Boring pattern

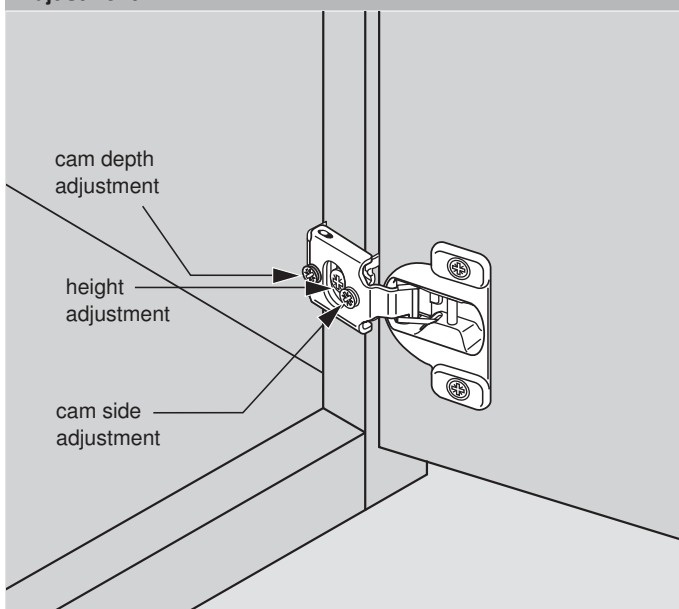


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustment




Calculating door protrusion

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


Wraparound hinges



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

Edge mount hinges



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

Installation screw

Truss head installation screw	834TH
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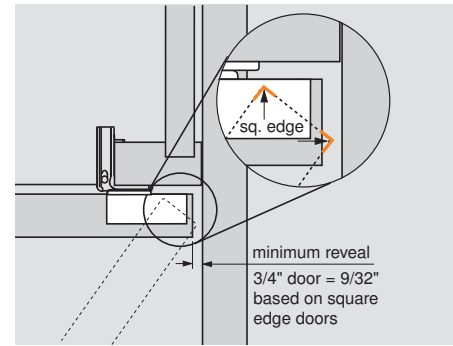
COMPACT 38C hinges for full overlay



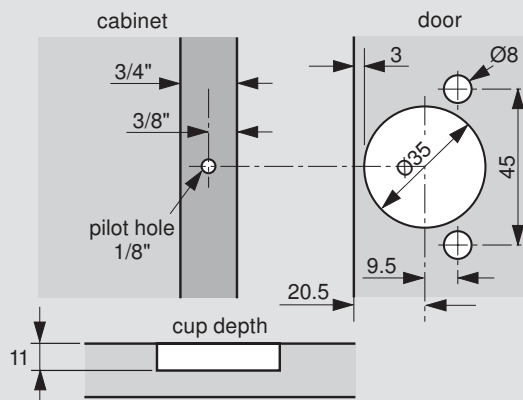
Features

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

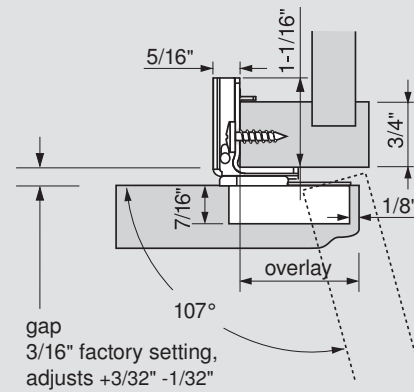
Minimum reveal



Boring pattern

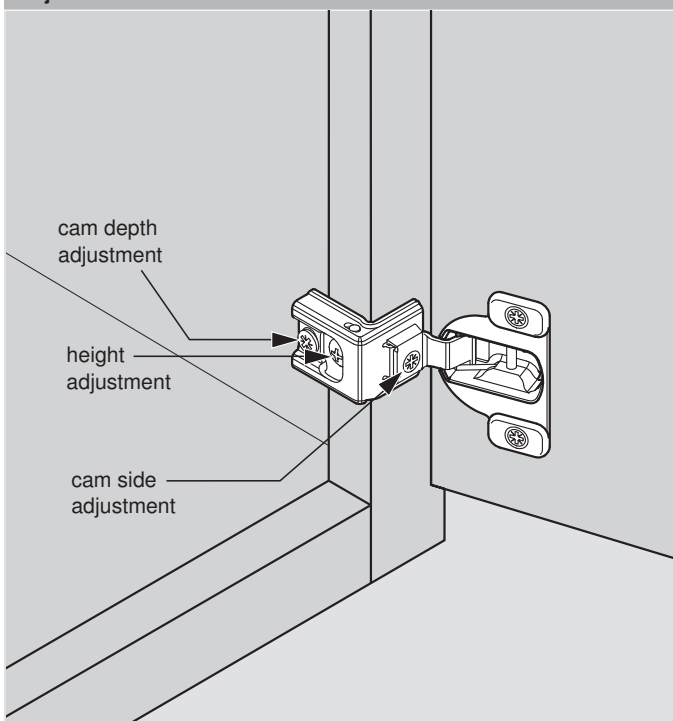


Dimensions




NOTE: Maximum door thickness 3/4"

Adjustment



Wraparound hinges



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

Installation screw

Truss head installation screw

834TH

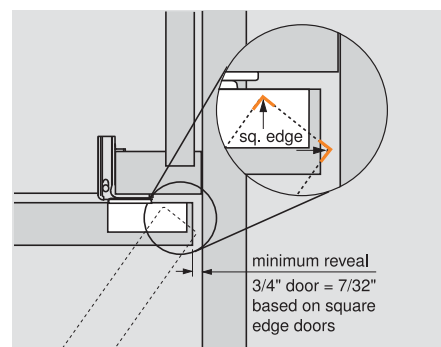
COMPACT 39C hinges for full overlay



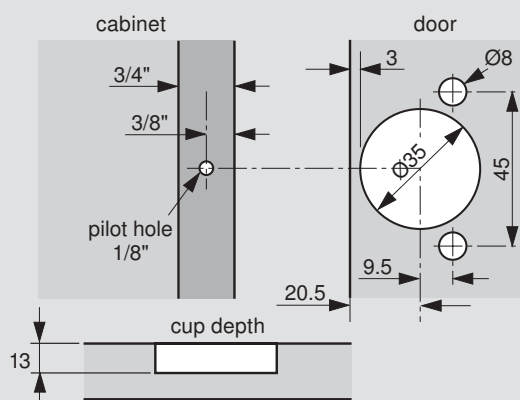
Features

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

Minimum reveal

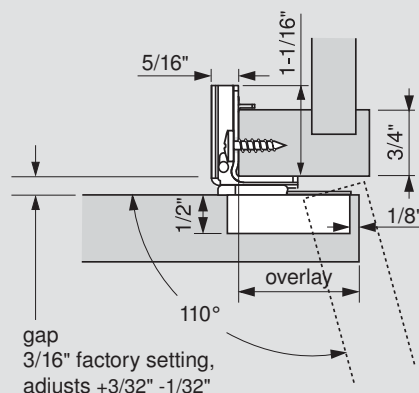


Boring pattern

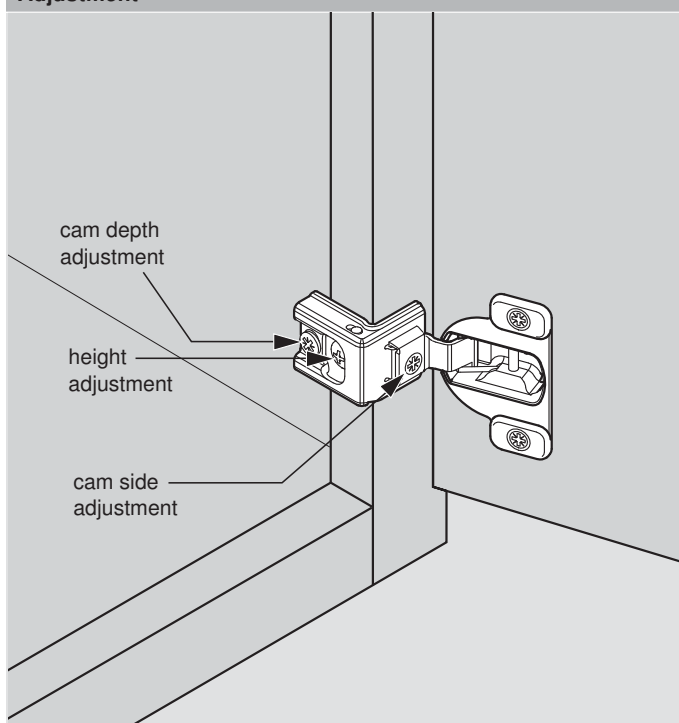


NOTE: Maximum door thickness 3/4"

Dimensions




Adjustment



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

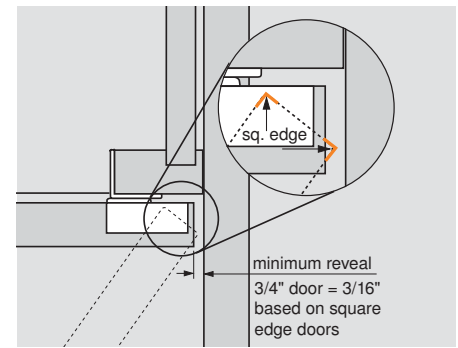
COMPACT 33 hinges



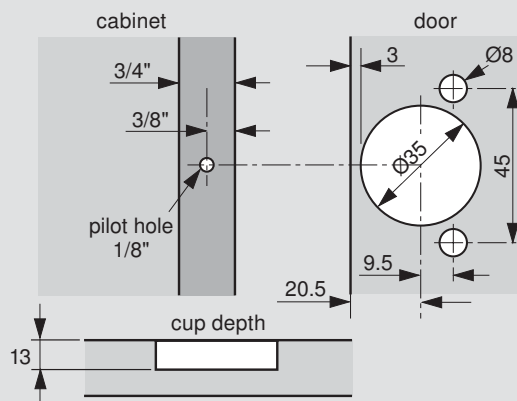
Features

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

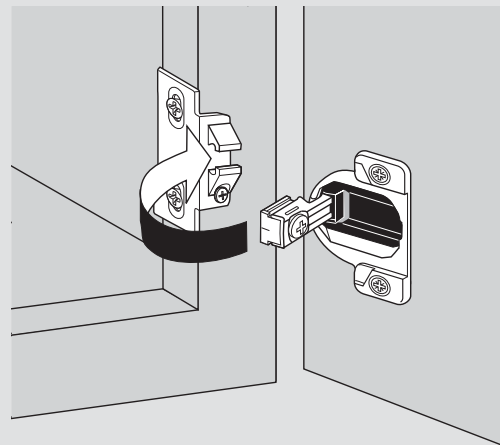
Minimum reveal



Boring pattern



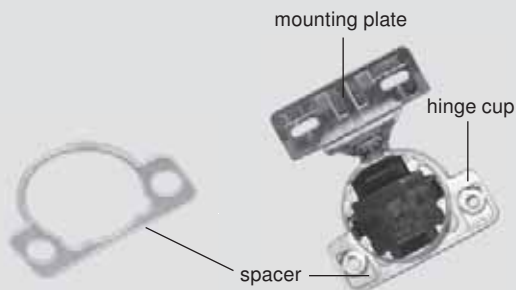
Mounting



NOTE: Maximum door thickness 3/4"

COMPACT 33 spacer

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



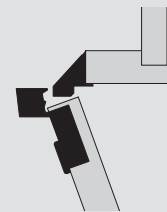
Part no.

COMPACT 33 spacer

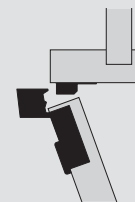
58.0890.1198

Attachment options

Edge mount



Face mount



Overlay

Screw-on



Press-in

33.3600

33.3630

Installation screw

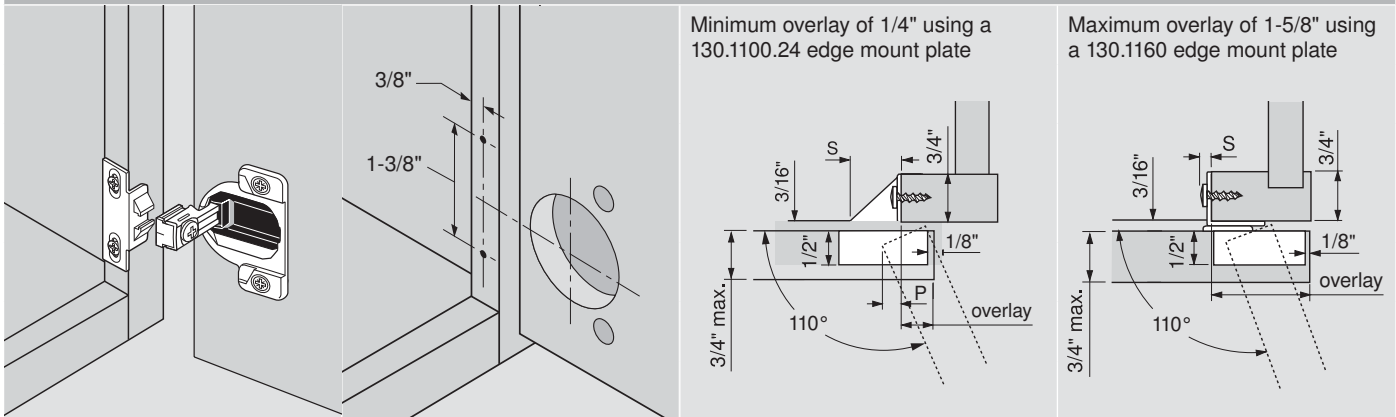
Wood screw

606N or 606P

COMPACT 33 mounting plates



Edge mount specifications



Edge mount mounting plates



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

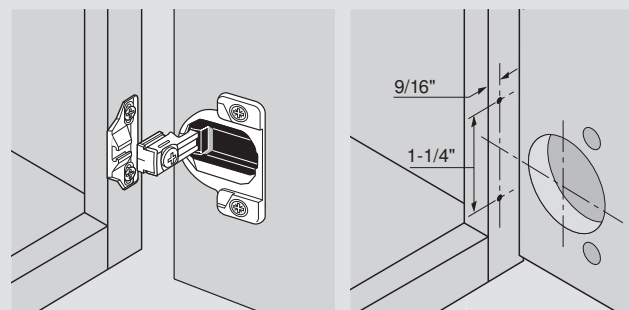
NOTE: An additional screw is required on mounting plates with 1-3/8" to 1-5/8" overlays to insure stability. Install after height adjustments have been made.

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

Face mount mounting plates



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



Overlay

Face mount mounting plate

Part no.

133.0240

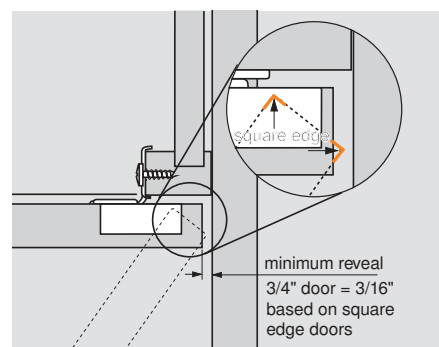
COMPACT 38. hinges for partial overlay



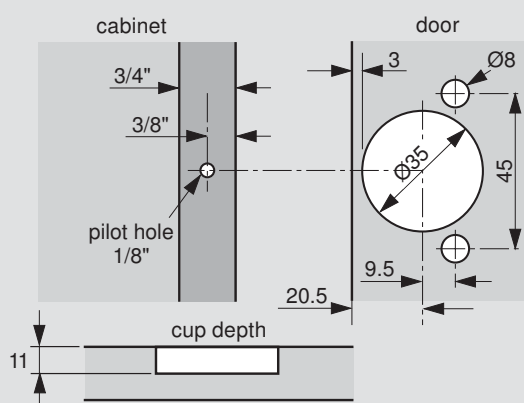
Features

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

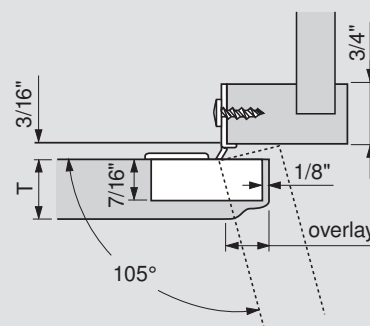
Minimum reveal



Boring pattern

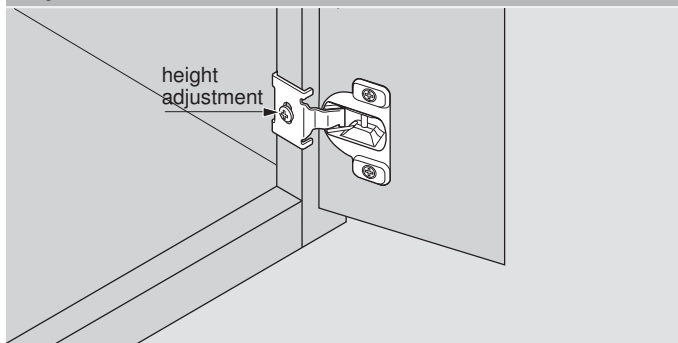


Dimensions



NOTE: Maximum door thickness 3/4"

Adjustment



Wraparound



Overlay

1/2"

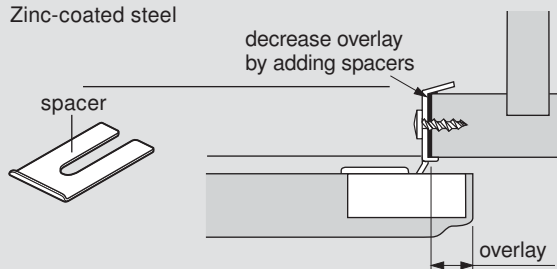


Press-in

38.3580.08

Distance spacer for 38. hinges

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



Part no.

38. distance spacer

36.3515

Installation screw

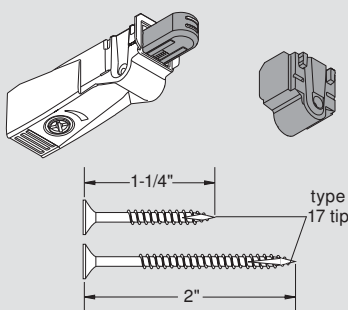
Truss head installation screw

834TH

BLUMOTION 971A for COMPACT hinges

BLUMOTION
inside

BLUMOTION 971A poly-bag set



Can be used for all COMPACT overlays

Set includes:

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

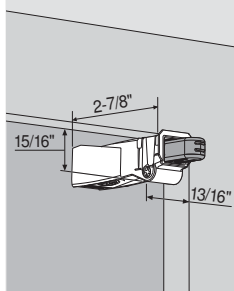
Part no.

Poly-bag set

971A9700.22

Full overlay

Full overlay – 1" or greater overlay



Part no.

BLUMOTION

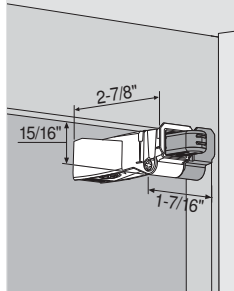
971A9700

Installation screw (1-1/4")

8114Z

Partial overlay

Partial overlay – less than 1" overlay



Part no.

BLUMOTION

971A9700

Spacer

971A9709

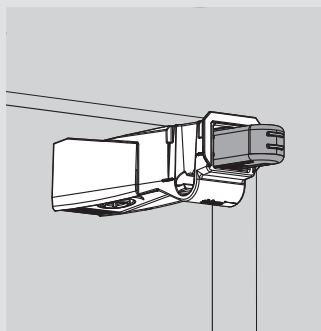
Installation screw (2")

8200Z

Specifications

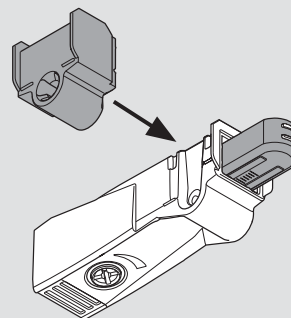
Mounting

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



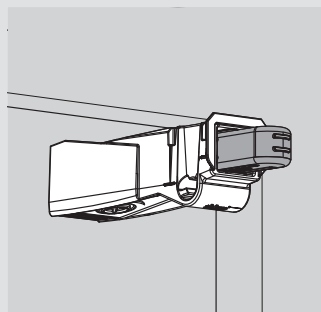
Attachment of partial overlay spacer

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



Adjustment

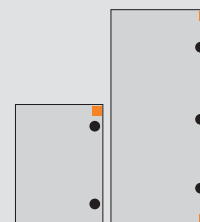
Use a Phillips or POZI screwdriver to adjust the contact point in or out (+5/-5 mm). Adjust out for larger, heavier doors or in for smaller, lighter doors.



BLUMOTION per door



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

- BLUMOTION 973A
- Hinges



Hinge accessories

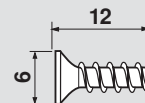
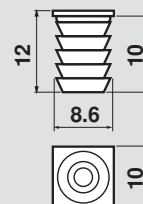
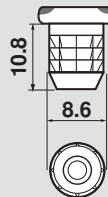
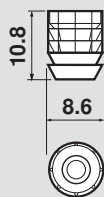
COMPACT cover caps

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

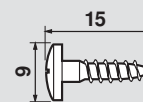
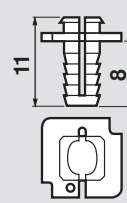
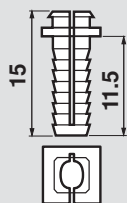
Ø8 mm dowels



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

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

Ø5 mm dowels



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

Screws

Deep thread wood screw

- For attaching hinges and mounting plates

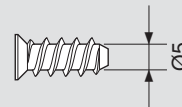


Part no.

#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

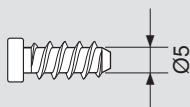


Part no.

#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

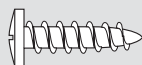
- Pilot bore Ø5 mm (3/16") hole
- Replacement screw for mounting plates with pre-mounted system screws



Part no.

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

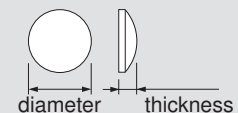


Part no.

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

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



Part no.

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

Twin application screw

- Pre-bored Ø5 (3/16") hole



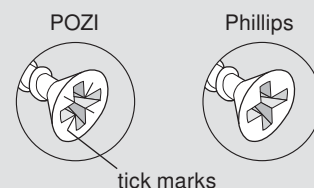
Part no.

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

POZI DRIVER and bits



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



Part no.

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

Assembly aids

Knock-in tool



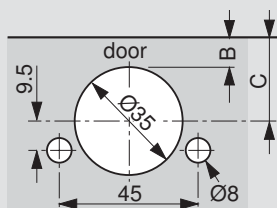
- Can be used to insert all Blum press-in hinges

Part no.

Knock-in tool

ZME.0710

ECODRILL



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

ECODRILL

M31.1000

Accessories

Replacement Ø35 mm bit

M31.ZB35.02

Replacement Ø8 mm bit

M31.ZB08.02

Tool set

MZW.1300

ECOJIG



holes are:
32mm apart,
37mm setback



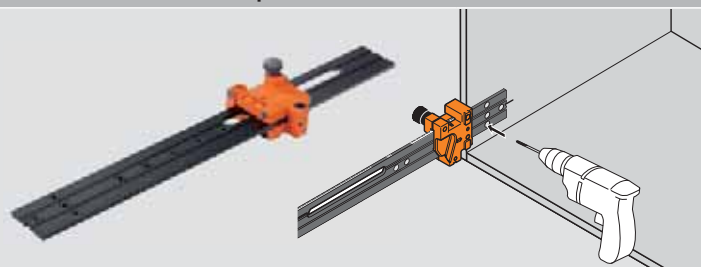
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

65.5070

Universal individual template



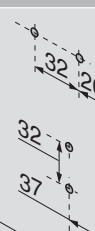
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

Part no.

Universal individual template

65.1051.01

Mounting plate template



- Use with CLIP mounting plates on overlay applications on panel cabinets
- For wing mounting plates (37 mm setback) and in-line mounting plates (20 mm setback)
- Simple location of mounting plate screw positions
- Pilot bore Ø2.5 mm holes for wood screws

Part no.

Mounting plate template

65.5300

QUICKFIX

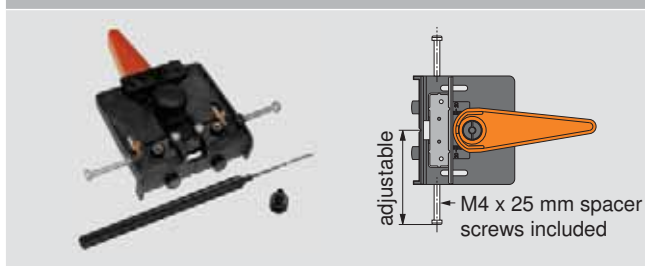


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line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

Dowelling fixture	69.3600
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INSERTA boring template

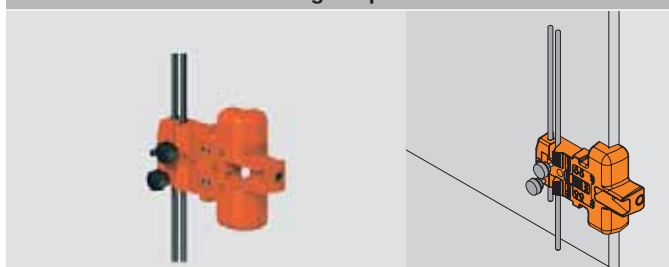


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

INSERTA boring template	65.059A
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BLUMOTION for doors boring template



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

Part no.

BLUMOTION for doors boring template	65.5000
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Assembly aids

Machines

MINIPRESS P – Deluxe boring and insertion machine



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

Part no.

Single phase – 220V power

M53.1053*US

Three-phase – 220V power

M53.1004*US

MINIPRESS M – 110V manual boring and insertion machine



- 110V power with molding plug (portable)
- Does not require pressurized air
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Accepts new 8 or 9 spindle heads

Part no.

Single phase – 110V power

M52.1056*US

MINIDRILL P – Standard boring machine



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

Part no.

Single phase – 220V power

M53.1053*50

Machine accessories

9 spindle head



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

Includes:

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

Part no.

9 spindle head	MZK.190S
Chuck cover cap	M30.1329

8 spindle head



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

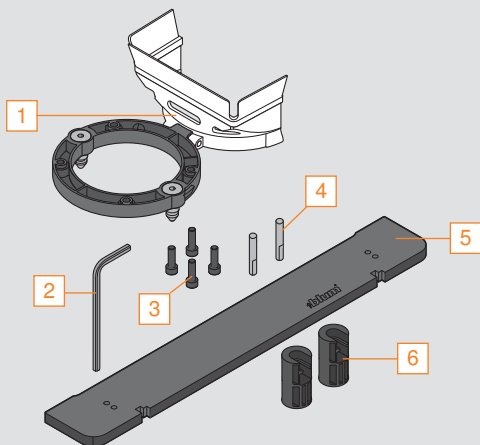
Includes:

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

Part no.

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

Spindle head retrofit set



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

Set includes:

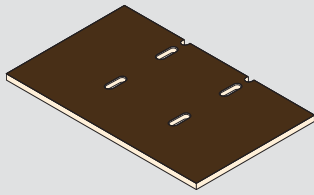
- 1 Adapter ring and shield
- 2 Ø5 mm allen wrench
- 3 Mounting bolts (qty 4)
- 4 Alignment pins (qty 2)
- 5 Alignment template
- 6 13 mm fixed depth stop (qty 2)

Part no.

Spindle head retrofit set	M30.1313.UM
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Assembly aids

Work table for M51 machine

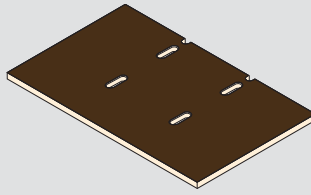


Part no.

Work table

MZA.1000

Work table for M52 machine

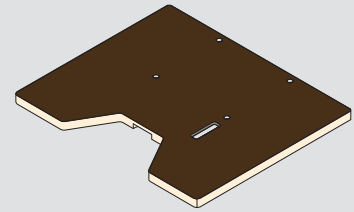


Part no.

Work table

MZA.5200

Work table for M53 machine



Part no.

Work table

MZA.5300

Center ruler



Part no.

Center ruler, **600 (2')**

M30.0212

Extension ruler



Part no.

Extension ruler, **1250 (4')**

MZL.1250.US

Extension ruler support



Part no.

Extension ruler support

MZV.2100

Ruler stop

Left or right ruler stop



Part no.

Ruler stop

MZS.3000

Small ruler stop

Left or right ruler stop



Part no.

Small ruler stop

MZS.2000

Large ruler stop

Symmetrical ruler stop



Part no.

Large ruler stop

MZS.1000

Fixed depth stop

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



Part no.

Fixed depth stop

M30.1304.01

Fixed depth stop

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



Part no.

Fixed depth stop

M30.1304.02

Digital counter set



Part no.

Digital counter set

MZE.2110

Hold down clamp set



Part no.

Hold down clamp set

M53.0720.US

Laser center point set



Part no.

Laser center point set

MZR.5300.US

Breakaway clutch

For use with MINIPRESS and MINIDRILL



Part no.

Breakaway clutch

MZK.2009

Euro hinge insertion ram

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



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

Part no.

#10 insertion ram

MZM.0010.01

Euro hinge insertion ram

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



Part no.

#18 insertion ram

MZM.0018

Euro hinge insertion ram

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



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

Part no.

#40 insertion ram

MZM.0040

COMPACT hinge insertion ram

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



Part no.

#47 insertion ram

MZM.0047

Mounting plate insertion Ram

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



Part no.

#53 insertion ram

MZM.0053

Machine drill bits



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 with center point

M01.ZB35.02 R

Twist drill bits – high speed steel



VPB-5



Twist drill bit



*Chuck for DB-2mm

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



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72T3580.TL	15	90M2203	32	M53.1004*US	82
72T3590.TL	15	94M3203	32	M53.1053*50	82
72T550A.TL	25	955.1004	66	M53.1053*US	82
73T3550	15	955A1004	66	MZA.1000	84
73T3580	15	955A1006.01	66	MZA.5200	84
73T358E	15	955.1201	67	MZA.5300	84
73T3590	15	955.1501	67	MZE.2110	84
73T550A	25	970.5201	60	MZK.190S	83
73T550AB	24	970.55E1	60	MZK.2009	84
73T5550	17	970.5701	60	MZK.880S	83
73T5580	17	970A1002	60	MZL.1250.US	84
73T558E	17	971A0500	58	MZM.0010.01	85
73T5590B	17	971A0700	58	MZM.0018	85
74.1103	33	971A2700	58	MZM.0040	85
75M1580	47	971A9700	77	MZM.0047	85
75M1680	47	971A9700.22	77	MZM.0053	85
75T1550	13	971A9709	77	MZR.5300.US	84
75T1580	13	973A0500.01	56	MZS.1000	84
75T1590B	13	973A0600	56	MZS.2000	84
75T4100	30	973A0700	56	MZS.3000	84
75T4200	30	973A6000	19, 57	MZW.1300	80
75T4300	30	973A7000	21, 23, 57	MZV.2100	84
79A5490BT	35	BIT HOLDER	79	POZI BIT #2x1	79
79A5491BT	35	DB-2mm	85	POZI BIT #2x2	79
79A5493BT	35	DB-2.5mm	85	POZI DRIVER	79
79A9494BT	35	DB-5mm	81, 85	SJ5312	79
79A9496BT	35	DB-8mm	85	VPB-5	85
79A9498BT	35	DB-10mm	85	ZME.0710	80
79A9595BT	35	DB-10 x 2mm	85		
79A9596BT1	35	FX4041	79		
79A9698BT	35	M01.ZB05.D2 R	85		



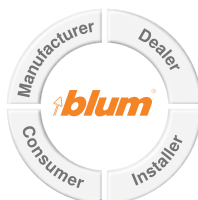
Why choose Blum



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

Commitment to manufacturing in the U.S.

Blum manufactures many of its products in our 450,000 sq ft manufacturing, logistics and warehouse facility located in Stanley, North Carolina. Manufacturing closer to the customer allows Blum to react quickly to changing customer needs including unexpected surges in demand. Customer pickups and deliveries can be timed to better match their production schedules. Blum is committed to manufacturing in the U.S. for the U.S. market.



Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. What's more they exceed the requirements of ANSI/ BHMA standards for cycle life, static load and self-closing performance.

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Stanley, NC 28164
800-438-6788
blum.com



ISO 9001
Certified Quality
System



Premium concealed hinges



Premium concealed hinges

CLIP top and COMPACT hinges with integrated BLUMOTION

Elegant design and superior function

Get to know the advantages of integrated BLUMOTION.
Discover the possibilities of CLIP top BLUMOTION and
COMPACT BLUMOTION hinges. Inspire your customers.
Perfecting motion for doors, for the lifetime of the cabinet.

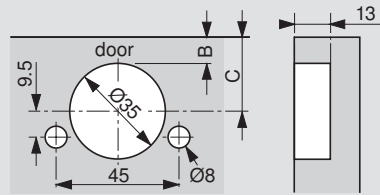


Contents

2	BLUMOTION soft close
4	CLIP top BLUMOTION hinges
6	General specifications
16	Angled hinge program
26	CLIP top 155° hinges
29	CLIP mounting plates
33	CLIP top BLUMOTION hinge accessories
34	COMPACT BLUMOTION hinges
36	General specifications
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43	Assembly aids
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Quick reference

Hinge cup centerpoint

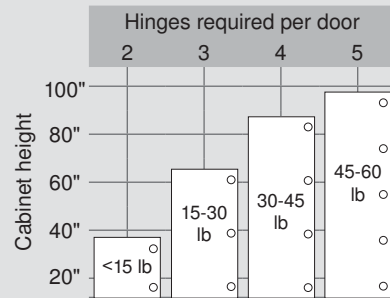


C = Cup centerpoint

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

B = Bore distance

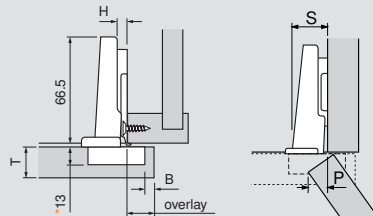
Hinges per door



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

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

Hinge abbreviation key



B = Boring distance

H = Plate height

OL = Door overlay

P = Door protrusion

R = Reveal

S = Side arm protrusion

T = Door thickness

W = Side panel width

FD = Fixed distance

Conversion chart

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

Fixed distance (FD)

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

This is used to calculate hinge overlay with the formula $X + B \text{ minus } H = OL$ (Fixed distance + boring distance minus plate height = overlay)



The elegant design of CLIP top BLUMOTION creates a sleek, sophisticated look while remaining easy to install and adjust



BLUMOTION deactivation option

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

CLIP top BLUMOTION or COMPACT BLUMOTION hinges allow you to simply slide the switch on the hinge, close the door once and deactivation is complete. This creates a quicker, but still silent, close. BLUMOTION can be reactivated in the same way.

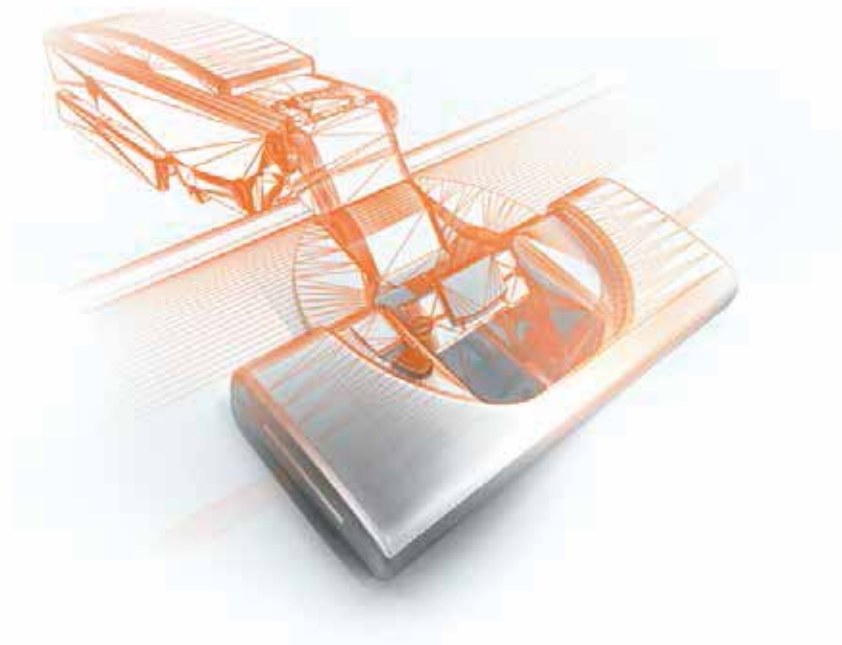


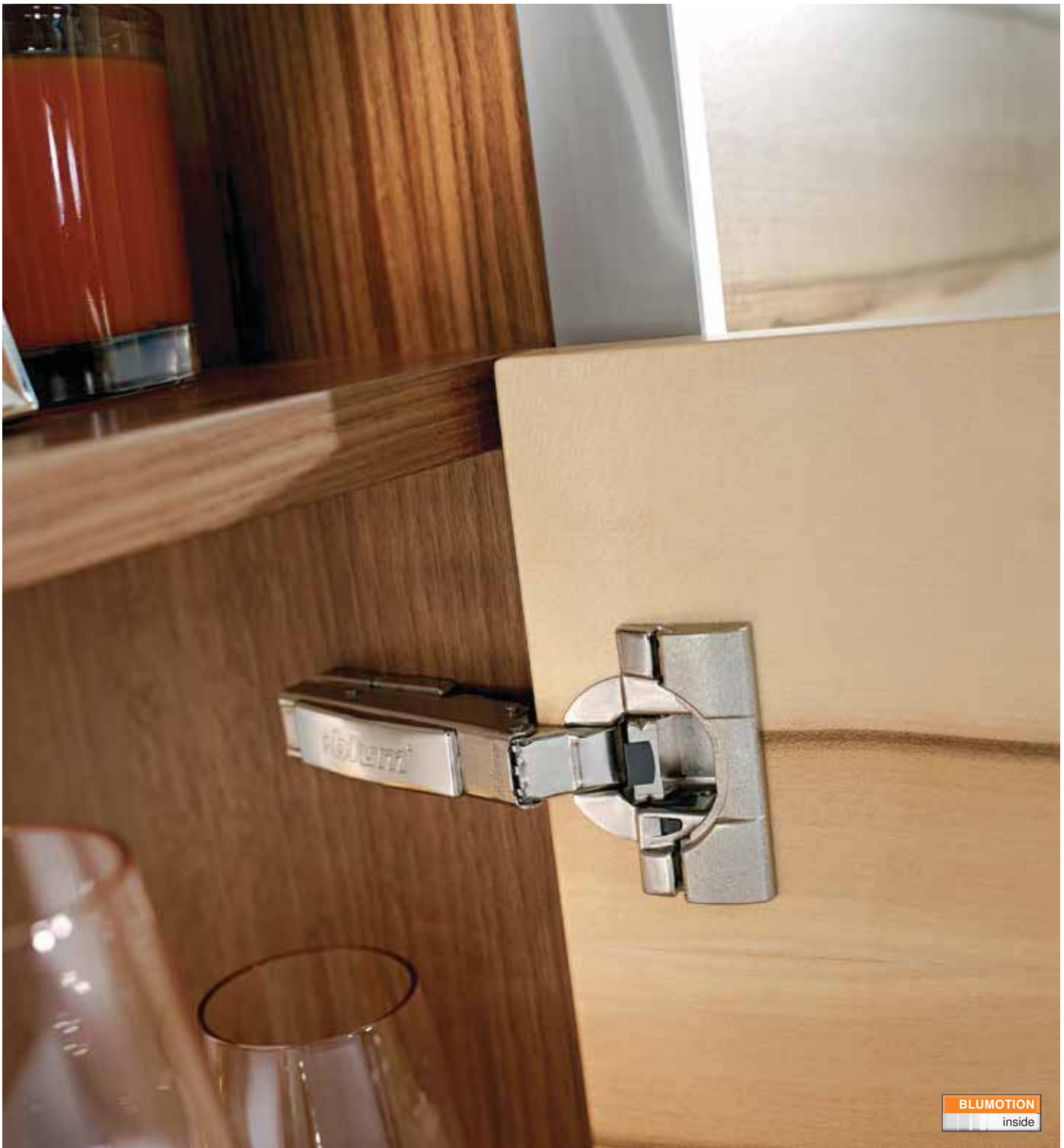
Innovative technology concentrated into a small space

Silent and effortless closing

Silent and effortless, that's how cabinet doors close with BLUMOTION. Because the BLUMOTION mechanism is now integrated into the hinge cup, the same quiet close is achieved with a more discreet hinge.

The braking action increases with the force of the door allowing it to close softly. This technology enables BLUMOTION to adjust itself automatically to each door size, weight and closing speed. Additionally, the integrated overload safety feature protects the BLUMOTION system from damage through abuse.





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



Elegant design, Superior function

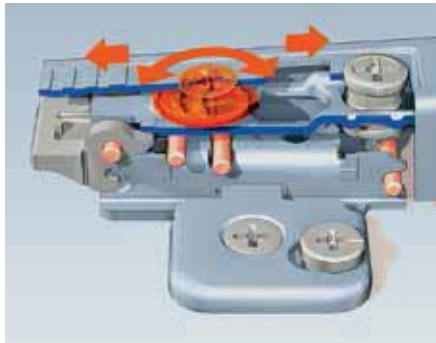
Silent and effortless, that's how cabinet doors close with CLIP top BLUMOTION hinges – regardless of the weight or closing speed. The BLUMOTION soft close mechanism is integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum.

With CLIP top BLUMOTION, you can now use thicker doors – depending on the application. The new geometry ensures that the door does not make contact with the cabinet face even with smaller door gaps.



CLIP

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



CLIP top

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



CLIP top BLUMOTION

Because the BLUMOTION function is now integrated into the hinge cup, additional assembly processes are no longer necessary after adjustment is complete.



Boring pattern

The CLIP top BLUMOTION boring pattern for the hinge cup remains unchanged, however, a 13 mm boring depth is required for all three holes (35 mm and 8 mm).



INSERTA

The INSERTA mechanism enables tool-free attachment of the hinge to the door. Press the insertion lever down and the dowels expand to hold the hinge in place.



Mounting plates

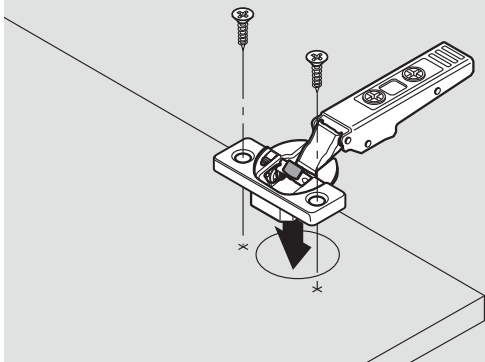
CLIP top BLUMOTION works with all current CLIP mounting plates so you can start using this new hinge right away with little change to production.

General specifications

Hinge-to-door attachment

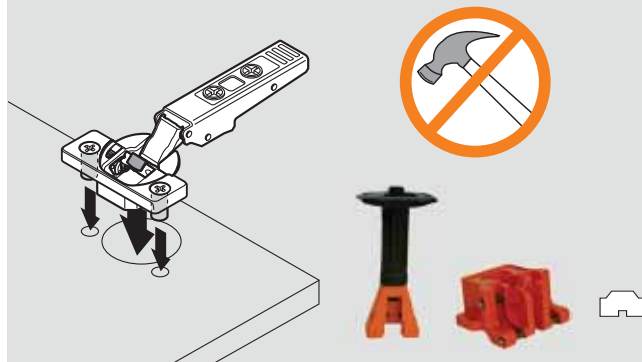
Screw-on

Use #6 wood screws



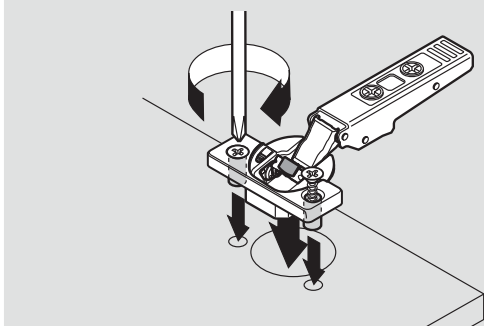
Press-in

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



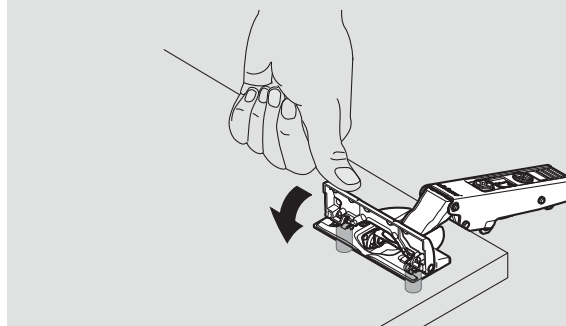
EXPANDO

Pre-attached expanding Ø8 mm dowels



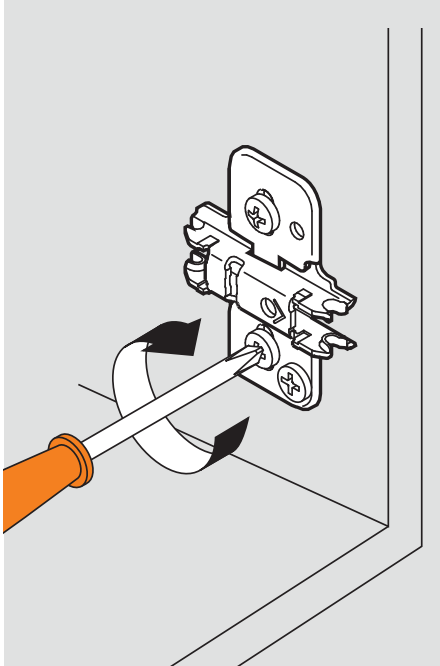
INSERTA

Tool-free attachment with INSERTA expanding Ø8 mm dowels



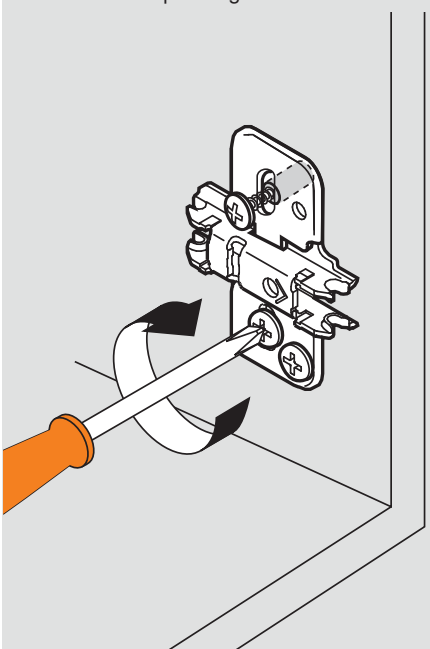
Mounting plate-to-cabinet

Screw-on



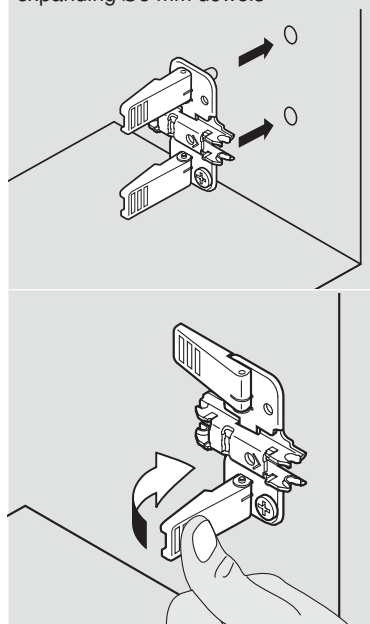
EXPANDO

Pre-attached expanding Ø5 mm dowels



INSERTA

Tool-free attachment with INSERTA expanding Ø5 mm dowels

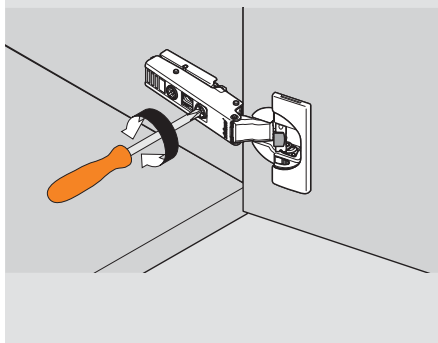
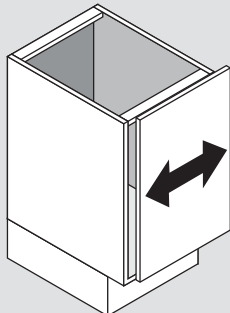


Adjustment

Three-dimensional adjustment

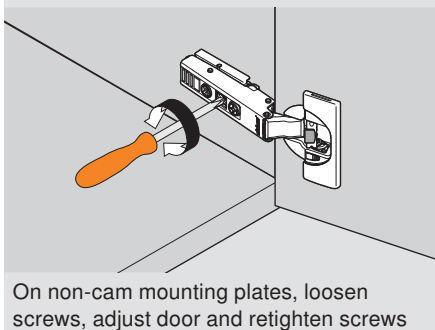
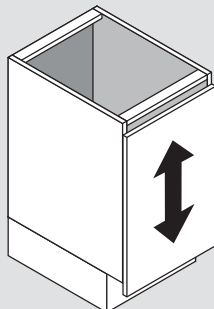
Side adjustment

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



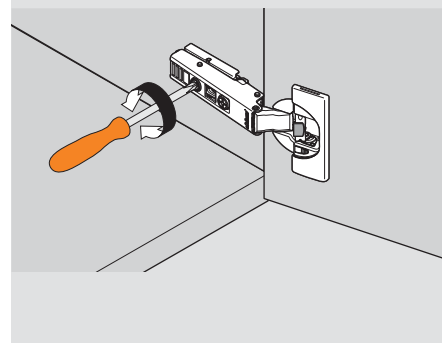
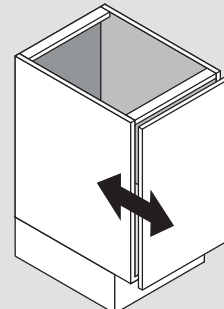
Height adjustment

Rotate cam screw on mounting plate to adjust door position (± 2 mm)



Depth adjustment

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

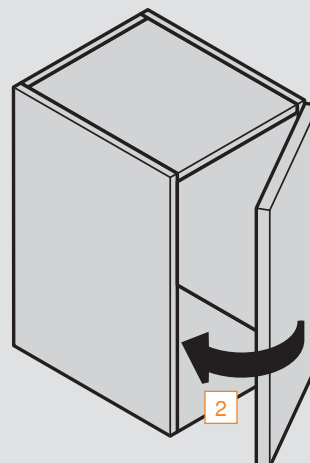
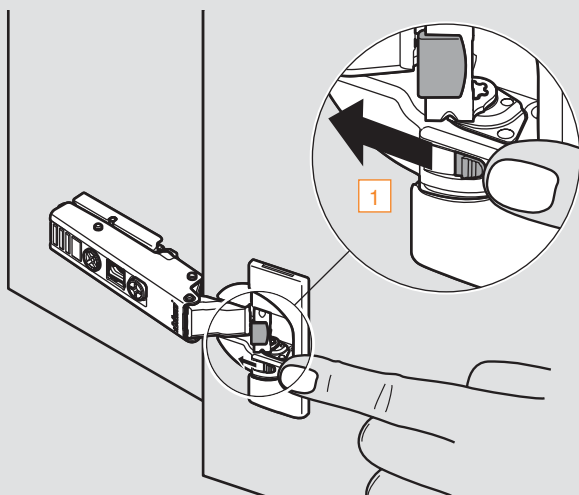


BLUMOTION deactivation

Deactivation switch on hinge cup

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

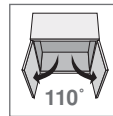
Door must be closed once for the deactivation to be complete. To reactivate, move switch back to original position.



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.

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



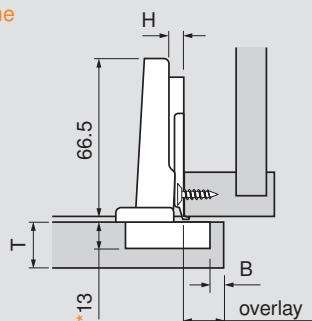
Minimum reveal table

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

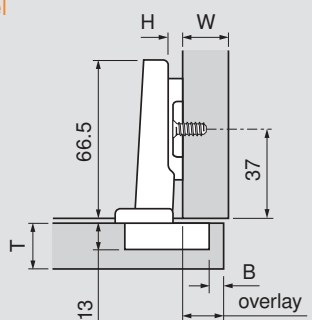
For thickness greater than 26 trial app. recommended

Overlay

Frame

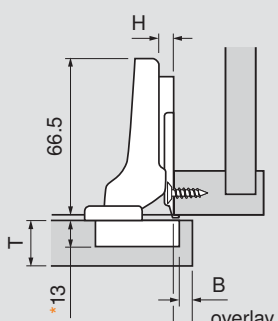


Panel

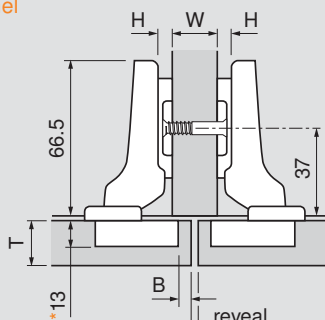


Partial/twin overlay

Frame

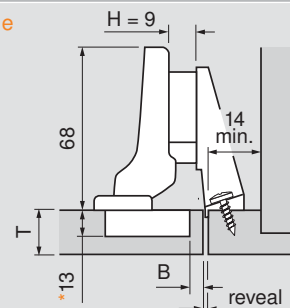


Panel



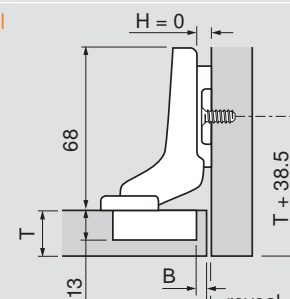
Inset

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	21.5	31
	10	8	6	4	2	19		
	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

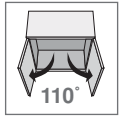
H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
W	=	Side panel width

Straight-arm	Self close
Screw-on	71B3550
Press-in	71B3580
EXPANDO	71B358E
INSERTA	71B3590

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
- Compatible with existing CLIP mounting plates and hinge arm cover caps



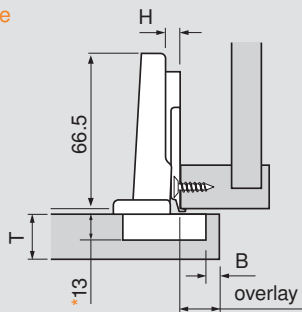
Minimum reveal table					
3	0.5	1.0	1.8	2.7	4.3
4	0.5	1.0	1.7	2.5	3.8
4.5	0.5	1.0	1.7	2.5	3.6
5	0.5	0.9	1.7	2.4	3.4
6	0.5	0.9	1.6	2.3	3.2
7	0.5	0.9	1.6	2.2	3.0
B = boring distance	16	19	22	24	26

T = door thickness

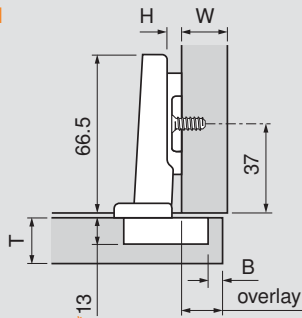
For thickness greater than 26 trial app. recommended

Overlay

Frame

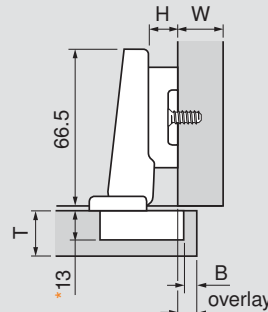


Panel

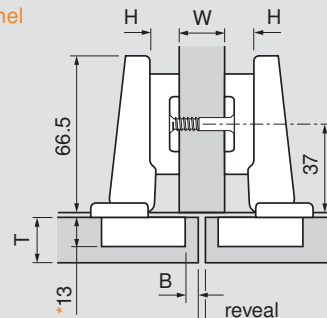


Partial/twin overlay

Panel

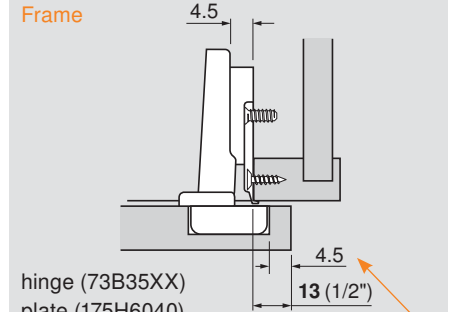


Panel

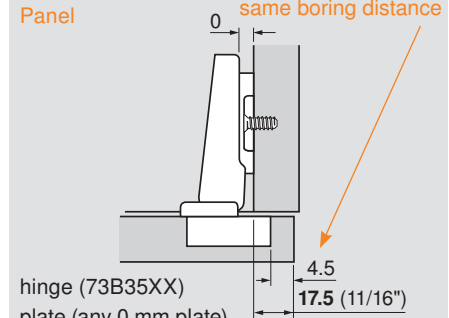


Building both frame and panel cabinets

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
9	2	–	–	–	–	–	16	19	29
	5	3	2	–	–	–	19		
	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:

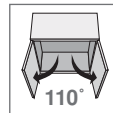
- One machine setting for boring all doors
- Same hinge used for both applications

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

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

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

Door thickness dimensions for 110° and 110°+ hinges



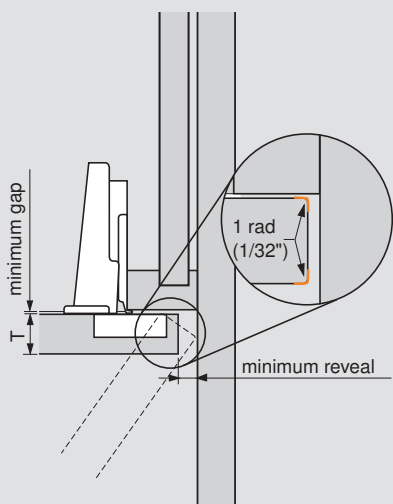
New geometry for thick door applications

Minimum reveals increase with door thickness. The following applications show common examples of necessary reveal and door gap for each door thickness.

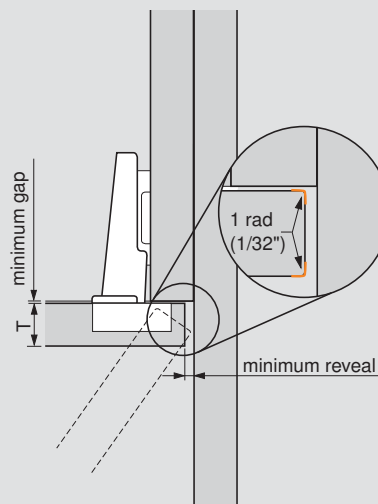
The factory setting for the door gap (distance between the back of door and front of side panel/frame) is 1.5 mm. For full opening angle without contacting the side panel or frame, the gap behind the door and the minimum reveal must be adjusted according to the table below.

NOTE: All dimensions based on 1 mm door radius

Frame application



Panel application



3/4" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.0	3	1.5
1.0	4	1.5
.9	4.5*	1.5
.9	5	1.5
.9	6	1.5
.9	7	1.5

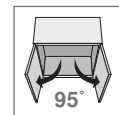
7/8" thick door		
Minimum reveal	B Bore	Minimum gap behind door
1.8	3	1.5
1.7	4	1.5
1.7	4.5*	1.5
1.7	5	1.5
1.6	6	1.5
1.6	7	1.5

1" thick door		
Minimum reveal	B Bore	Minimum gap behind door**
4.3	3	1.5
3.8	4	1.5
3.6	4.5*	2.0
3.4	5	2.2
3.2	6	3.2
3.0	7	4.2

*4.5 mm bore distance for use with 110°+ hinges, reference page 9

**Factory setting is 1.5, may require adjustment

CLIP top BLUMOTION 95° thick door hinges



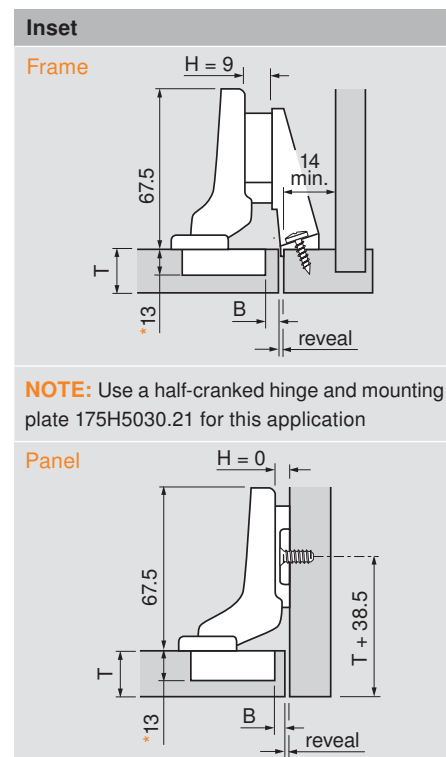
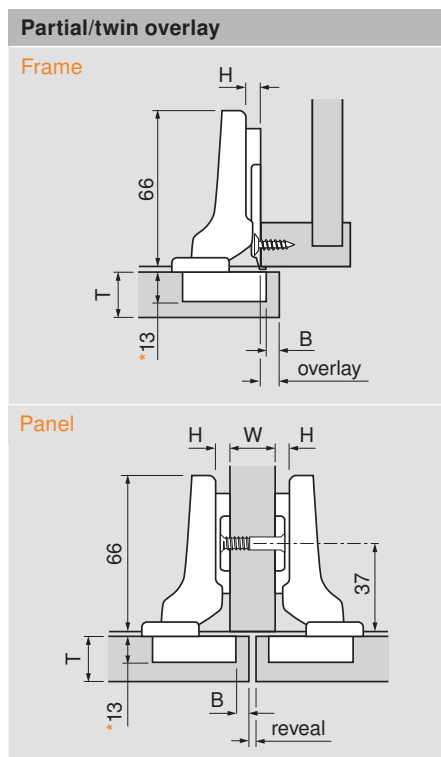
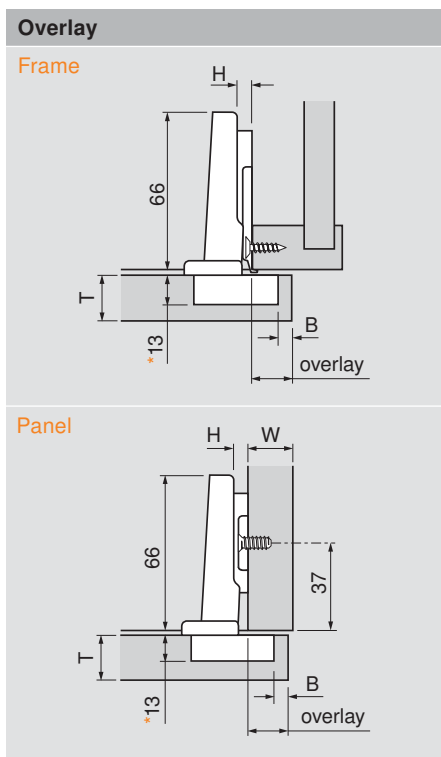
Features

- 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							

For thickness greater than 30 trial app. recommended



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

*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			
	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

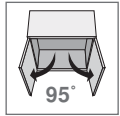
H	=	Plate height
P	=	Door protrusion
S	=	Side arm protrusion
W	=	Side panel width

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 95° narrow aluminum door hinges



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

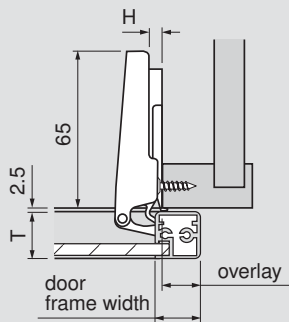


Minimum reveal table					
18	0.2	0.3	0.4	0.6	0.7
19	0.2	0.3	0.4	0.6	0.7
20	0.2	0.3	0.4	0.5	0.7
21	0.2	0.3	0.4	0.5	0.7
22	0.2	0.3	0.4	0.5	0.7
door frame width	18	19	20	21	22
T = door thickness					

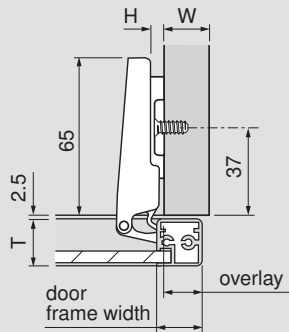
For thickness greater than 22 trial app. recommended

Overlay

Frame

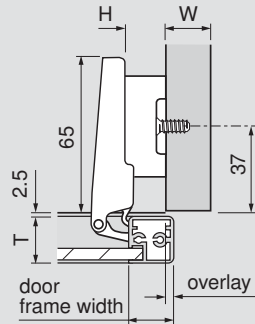


Panel

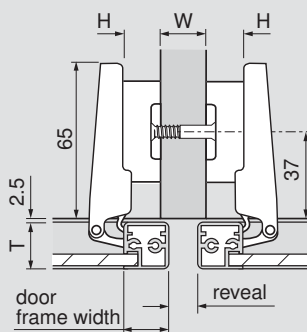


Partial/twin overlay

Frame

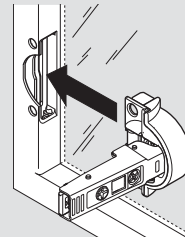


Panel

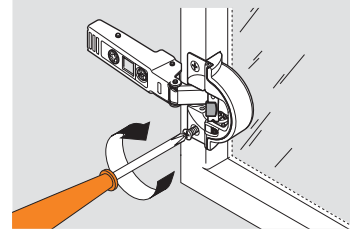


Installation

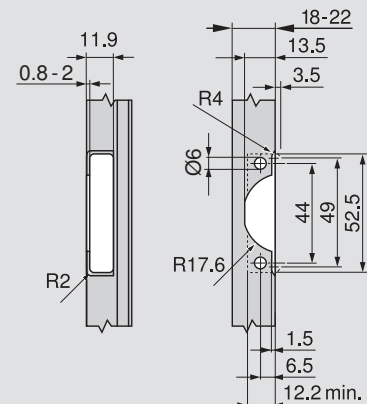
Attach cup adapter to the hinge and insert into machined openings



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				

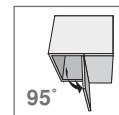
Abbreviations

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

Screw-on	Self close
	71B950A

Screw-on	Self close
	71B950A

CLIP top BLUMOTION 95° inset blind corner hinges



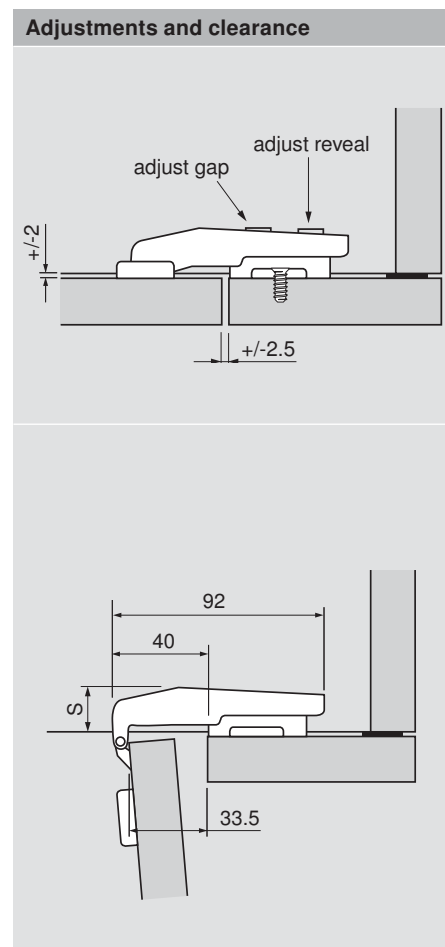
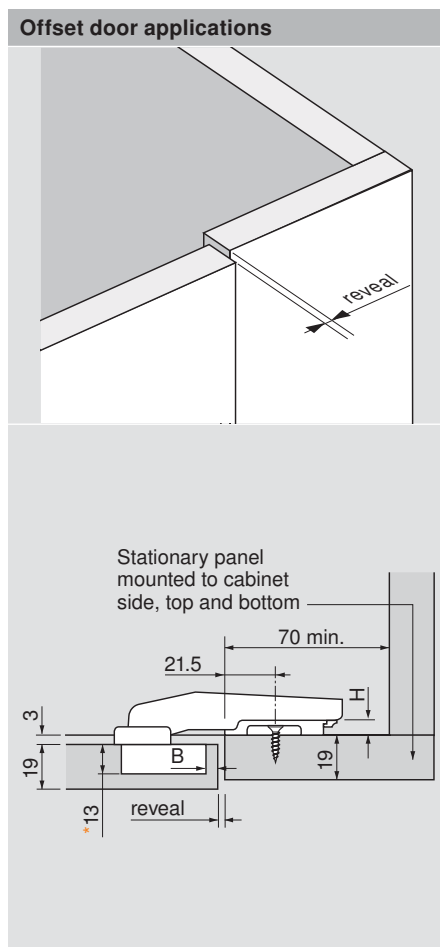
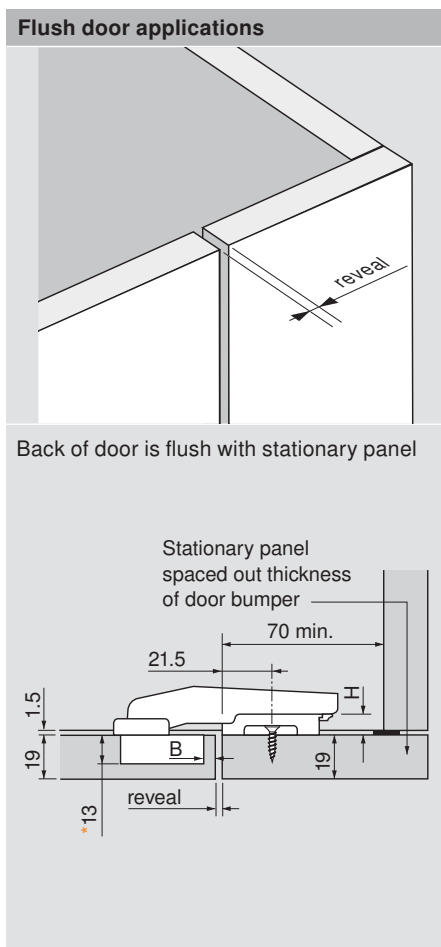
Features

- 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	0.4	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						

For thickness greater than 24 trial app. recommended



*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							

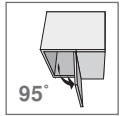
H	Reveal					P	S
0	5	4	3	2	1	33.5	21
	3	4	5	6	7		
B = boring distance							

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 hinge



Features

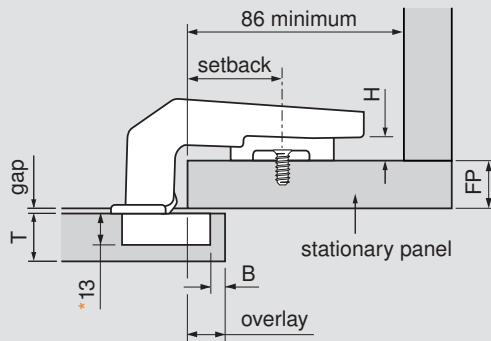
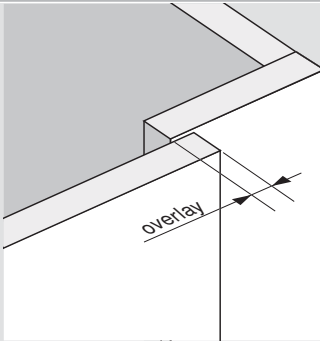
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to **24** (15/16")
- Overload safety feature
- Boring distance range 3 mm to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps



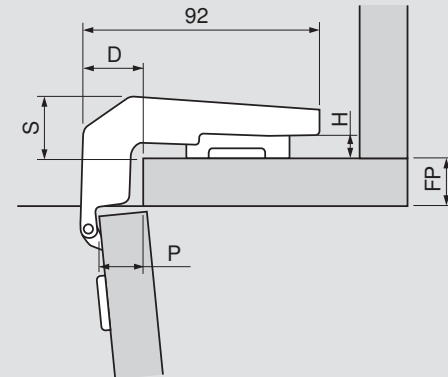
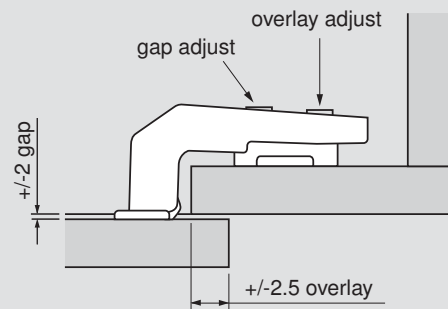
Minimum reveal table						
3	0.1	0.3	0.4	0.5	0.9	1.3
4	0.1	0.3	0.4	0.5	0.9	1.3
5	0.1	0.3	0.4	0.5	0.9	1.3
6	0.1	0.3	0.4	0.5	0.9	1.2
7	0.1	0.3	0.4	0.5	0.9	1.2
B= boring distance	16	18	19	20	22	24

T = door thickness
For thickness greater than 24 trial app. recommended

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	7	32
32	7	8	9	10	11	12	12	27
37	12	13	14	15	16	17	17	22
	3	4	5	6	7	fixed distance = 9		
	B = boring distance							

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

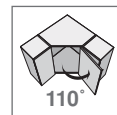
H	Gap			S
0	7	4	1	21
3	4	1	—	24
6	1	—	—	27
	16	19	22	
	FP = front panel thickness			

NOTE: 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

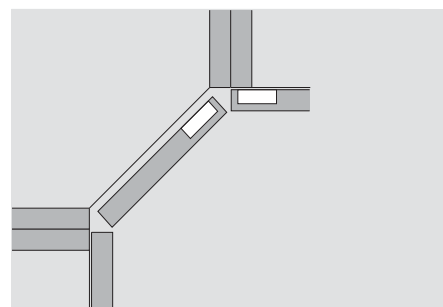
Overlay blind corner	Self close
Press-in	79B9980

CLIP top BLUMOTION 110° diagonal hinge



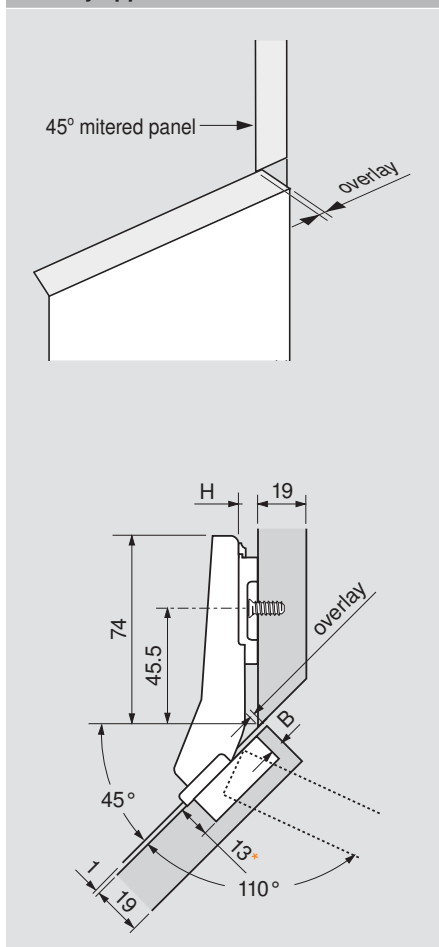
Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

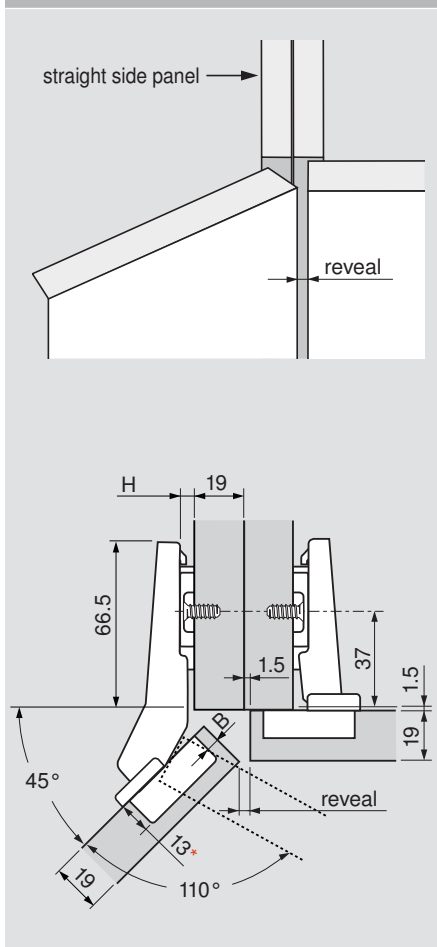


For thickness greater than 19 mm app. recommended

Overlay application



Inside corner



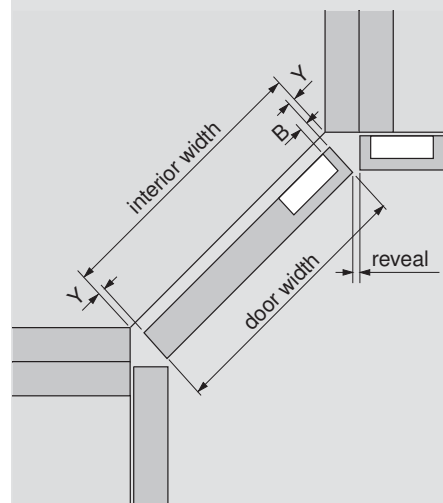
Calculating door width

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

CLIP top BLUMOTION angled hinge program



CLIP top BLUMOTION hinges from +45° to -45°

Angled hinges provide a tremendous array of possibilities for the cabinet design professional. Specifically designed for panel (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 BLUMOTION hinges feature "Spiral Tech" depth adjustment which eliminates loosening and retightening the adjustment screws. Also, all CLIP top BLUMOTION angled hinges are INSERTA for tool free hinge-to-door attachment.








Step 1. On page 18, 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 19 to 25 are in numerical order and show all the details.

CLIP top BLUMOTION angled hinges

Positive angled hinges

	Part no.		Part no.		Part no.		Part no.
+15°	79B9494	+20°	79B9595	+30° II*	79B9596	+30° III*	79B9496
	Part no.		Part no.		Part no.		
+45° I*	79B9698	+45° II*	79B3598	+45° III*	79B9498		

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


Negative angled hinges

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

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	

Wedge spacers for positive and negative angles

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

Angle-to-style cross-reference

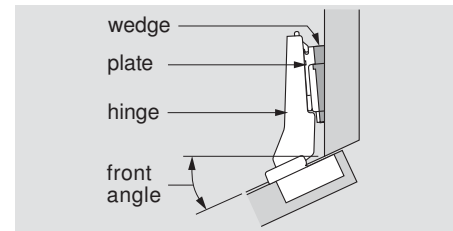
BLUMOTION
inside








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

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

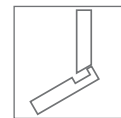
Application number

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

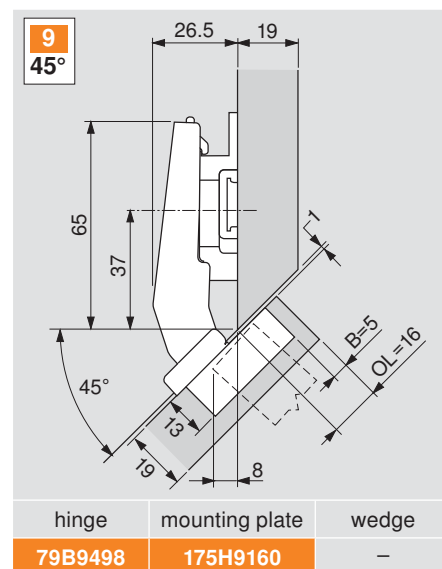
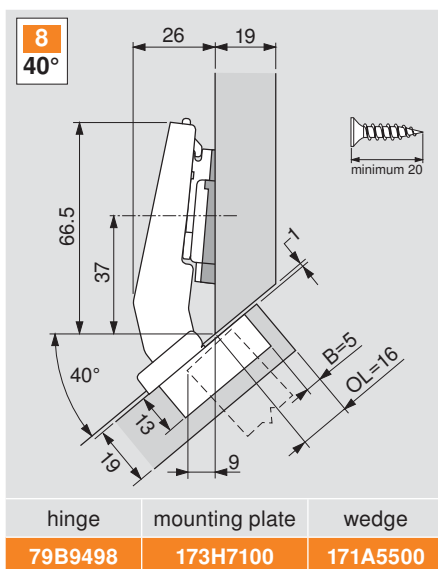
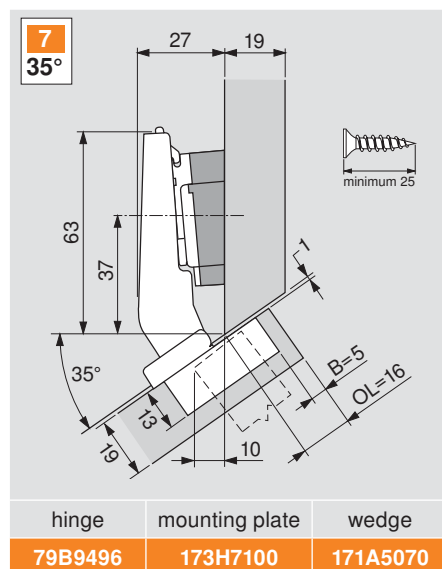
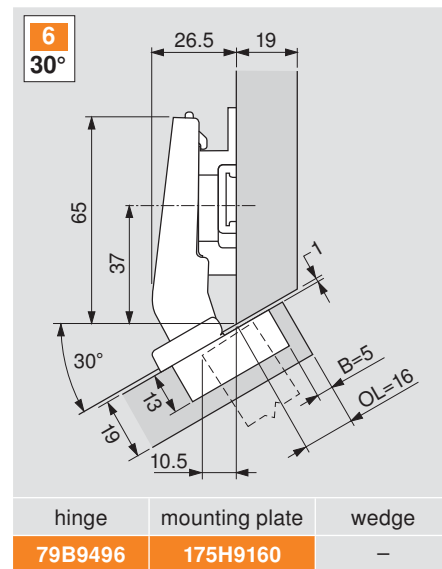
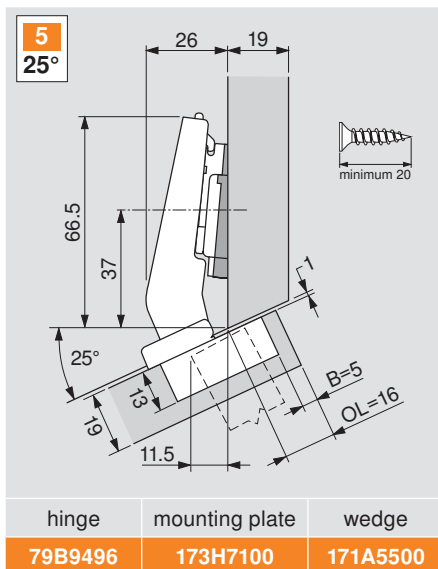
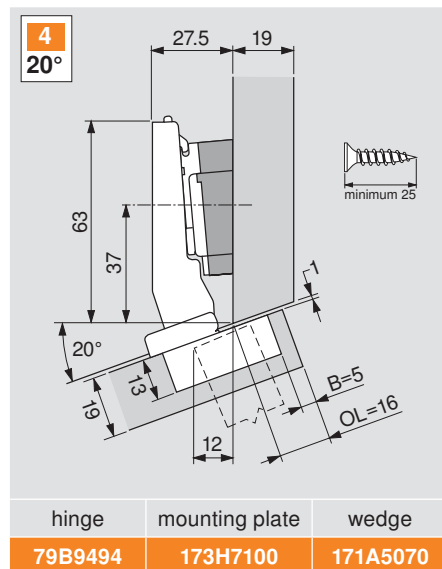
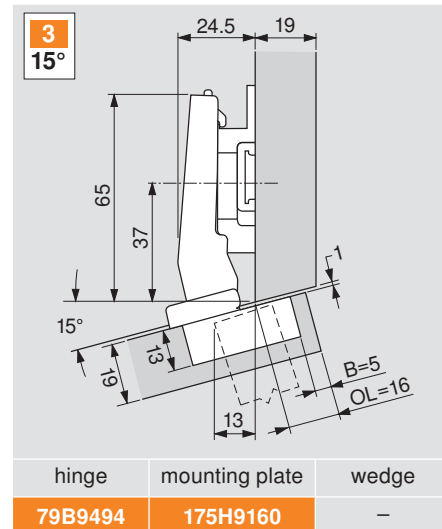
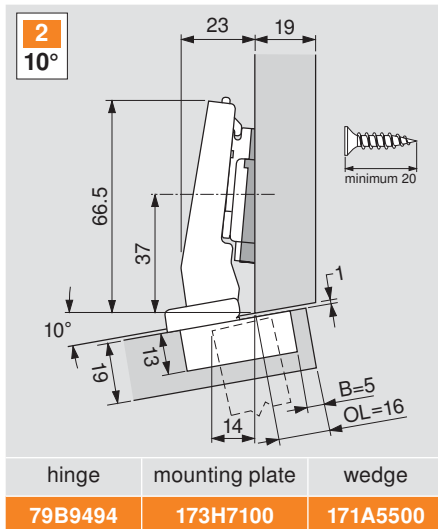
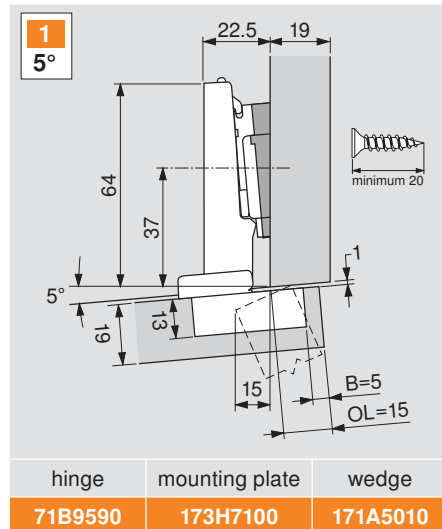


	Positive angles						Negative angles			
										
	maximum overlay	partial overlay	corner merge	inset door	mitered corner		maximum overlay	inset door		
5°	1	10	19	27		-5°	42	51		
	71B9590	71B9590	71B9690	71B9790			71B9590	71B9690		
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100		
	171A5010	171A5010	171A5070	171A5010			171A5500	171A5500		
10°	2	11	20	28		-10°	43	52		
	79B9494	79B9494	79B9494	79B9494			79B3493	79B3493		
	173H7100	173H7100	175H9190.22	175H9190.22			173H7100	175H7190		
	171A5500	171A5500	171A5500	171A5500			171A5010	171A5010		
15°	3	12	21	29		36	-15°	44	53	
	79B9494	79B9494	79B9595	79B9595		79B9595		79B3493	79B3493	
	175H9160	175H9190	173H7130	175H9190		173H7100		175H9190.22		
			171A5500	171A5500		171A5500				
20°	4	13	22	30	37	-20°	45	54		
	79B9494	79B9595	79B9595	79B9595	79B9595		79B3493	79B3493		
	173H7100	173H7100	175H9190	175H9190.22	175H9160		173H7100	175H9160		
	171A5070						171A5500	171A5500		
25°	5	14	23	31	38	-25°	46	55		
	79B9496	79B9595	79B9596	79B9596	79B9596		79B3491	79B3491		
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	175H7190		
	171A5500	171A5010	171A5500		171A5500		171A5040	171A5070		
30°	6	15	24	32	39	-30°	47			
	79B9496	79B9596	79B9596	79B9596	79B9596		79B3491			
	175H9160	173H7100	175H9190	175H9190.22	173H7130		173H7130			
35°	7	16	25	33	40	-35°	48			
	79B9496	79B9596	79B9596	79B9596	79B9596		79B3491			
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100			
	171A5070	171A5010	171A5070	171A5010	171A5040		171A5500			
40°	8	17		34		-40°	49			
	79B9498	79B9498		79B9698						
	173H7100	175H9160		175H9190						
	171A5500	171A5500		171A5500						
45°	9	18	26	35	41	-45°	50			
	79B9498	79B3598	79B9698	79B3598	79B9698		79B3490	79B3490		
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130	175H7190		
							181.6130			

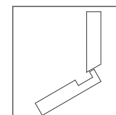
Maximum overlay specifications



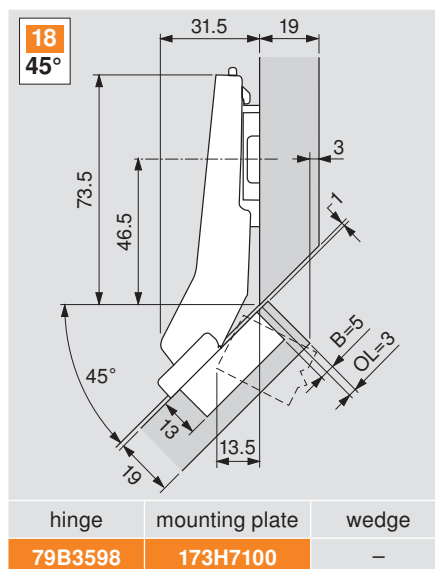
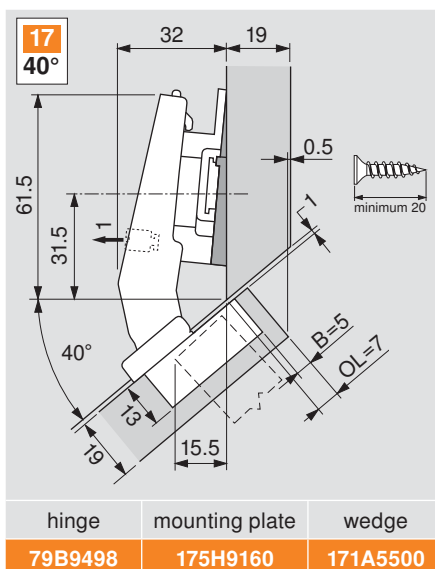
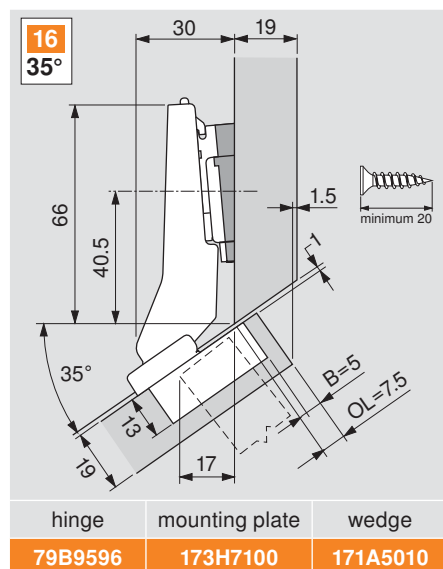
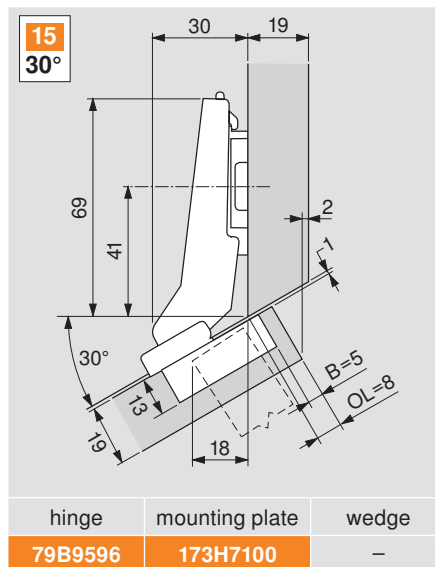
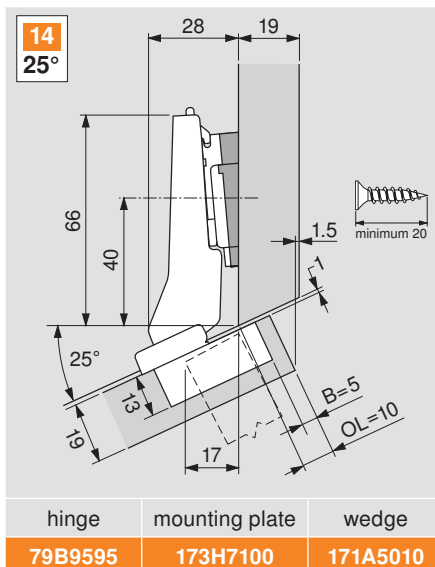
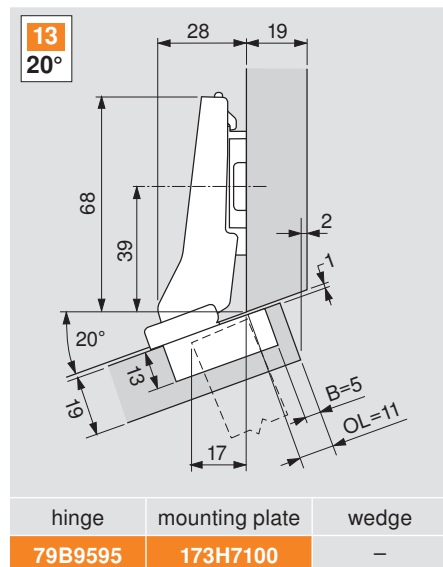
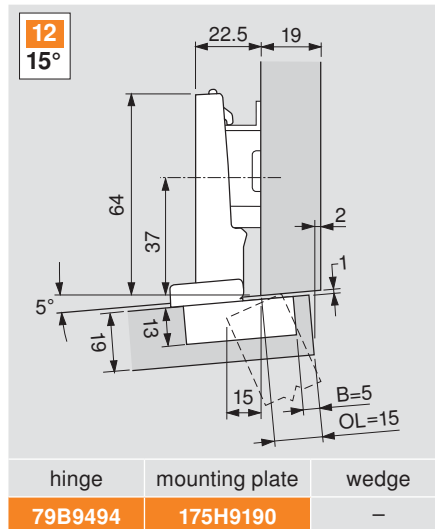
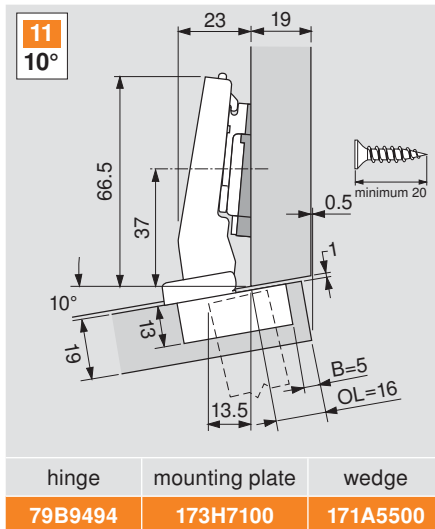
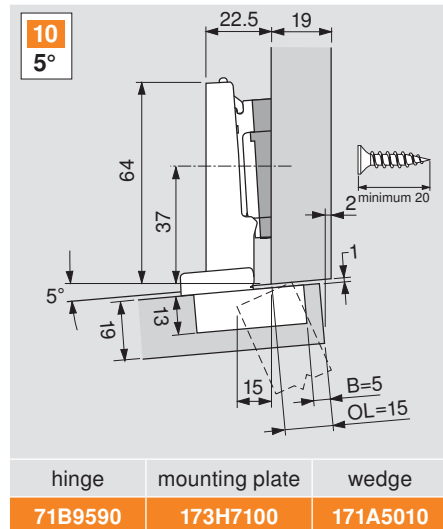
Positive angle applications



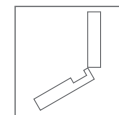
Partial overlay specifications



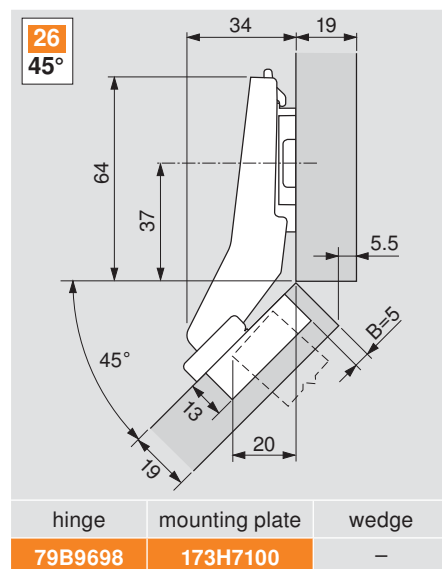
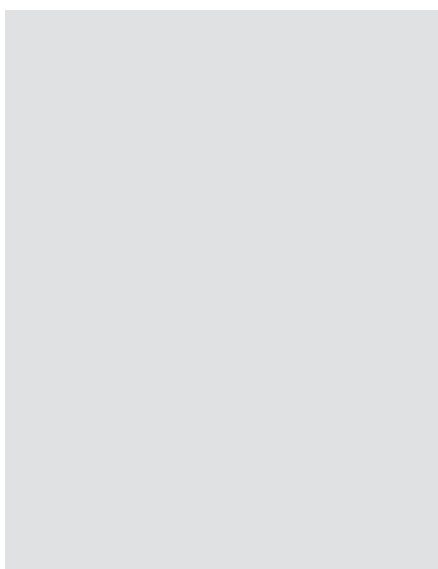
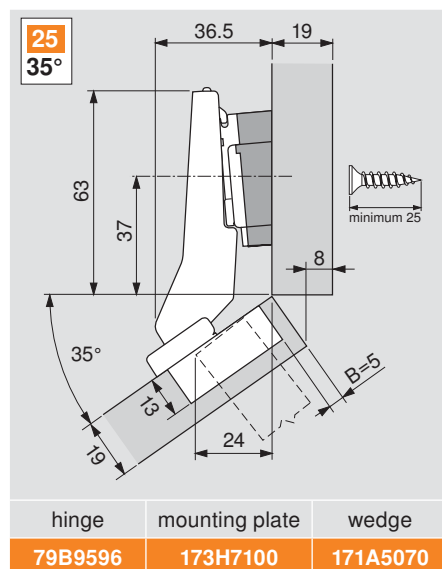
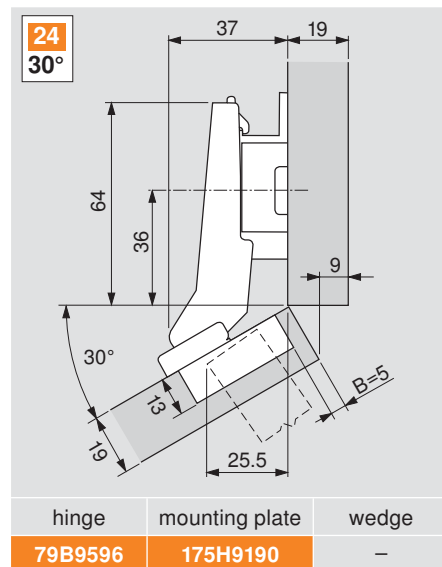
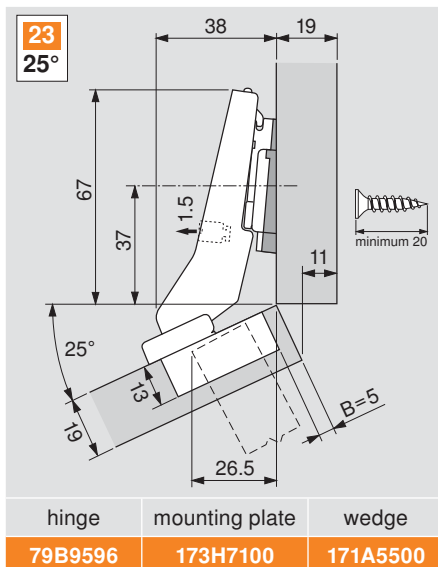
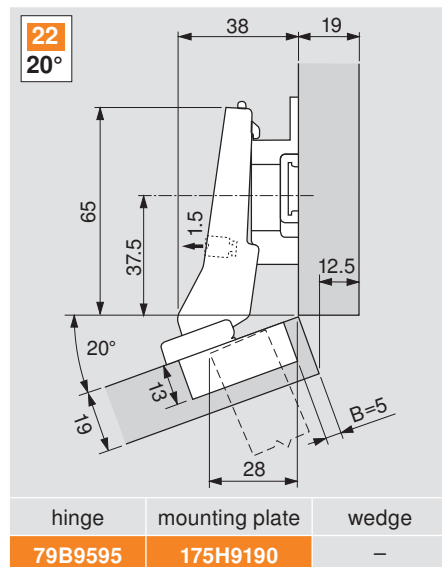
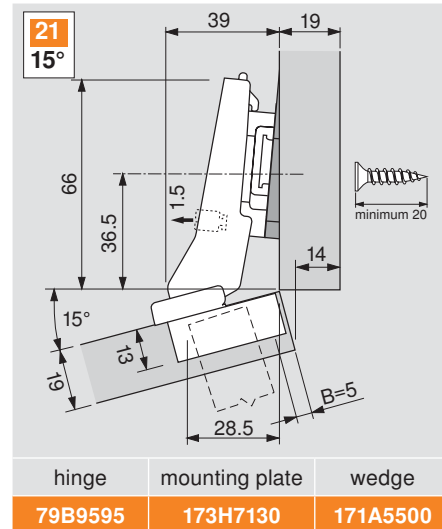
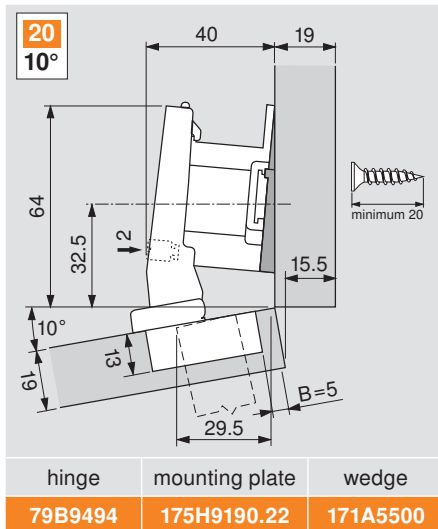
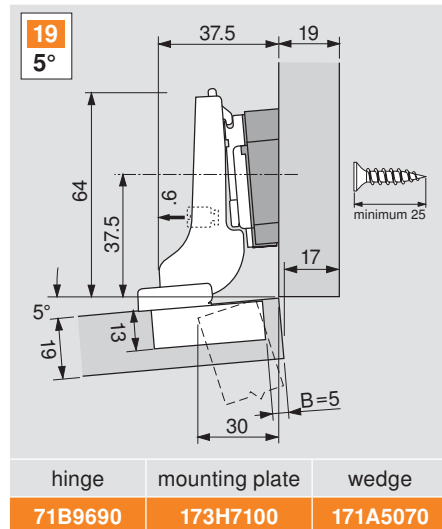
Positive angle applications



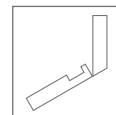
Corner merge specifications



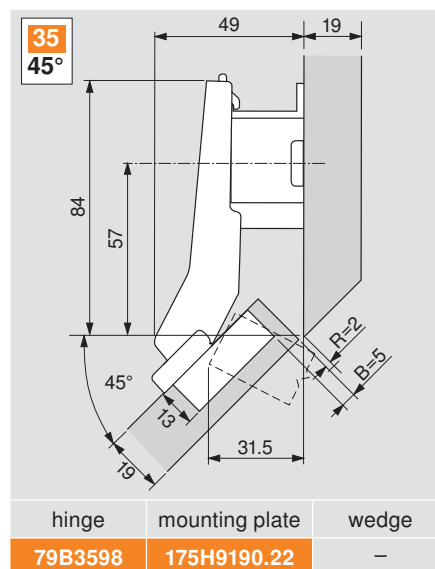
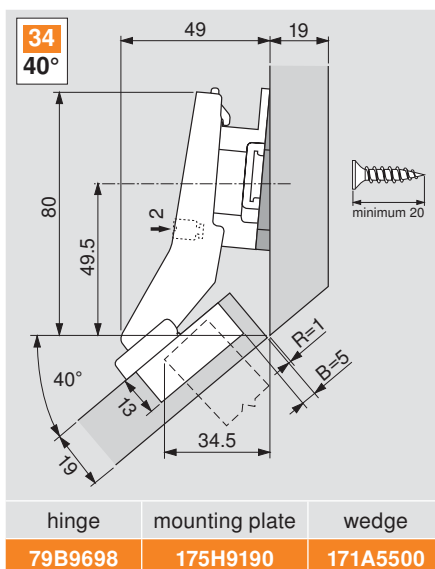
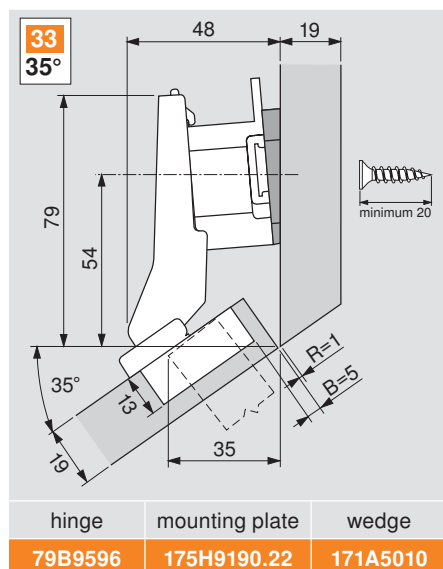
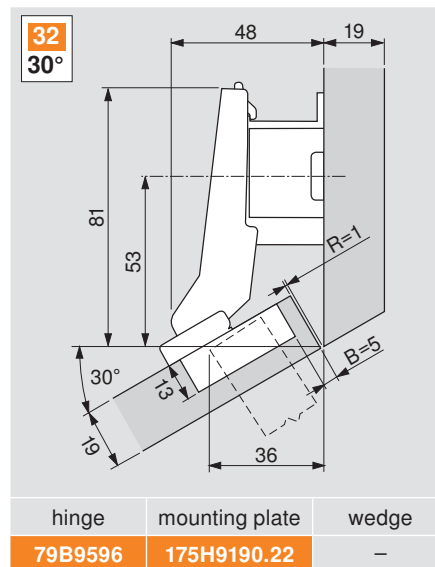
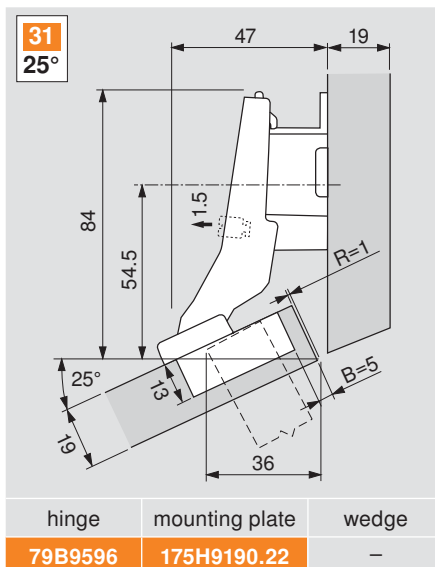
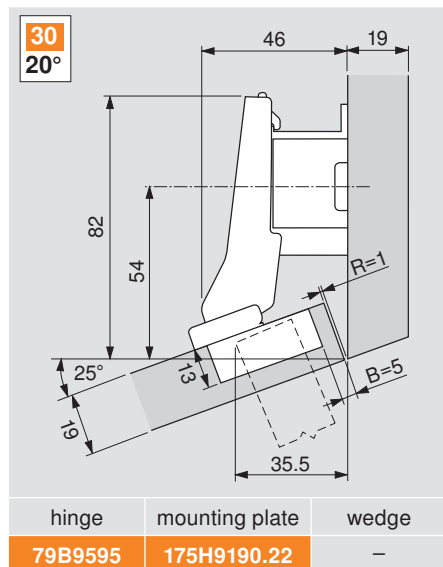
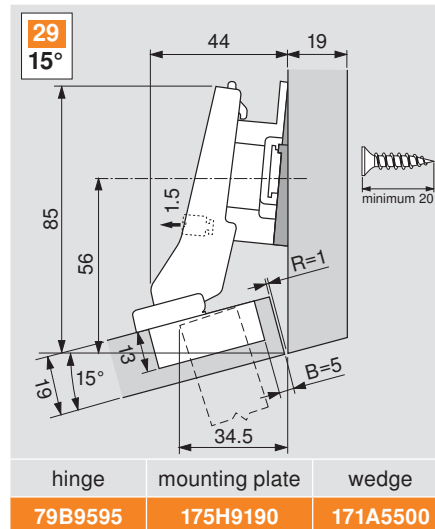
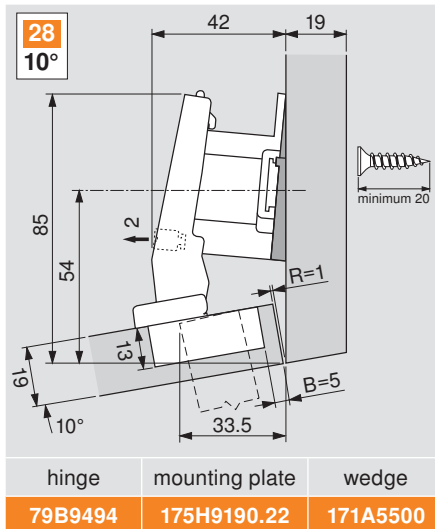
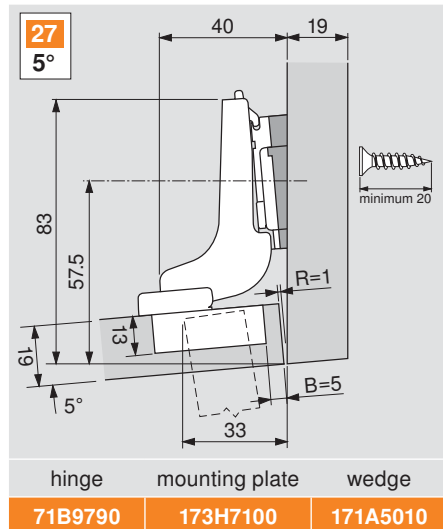
Positive angle applications



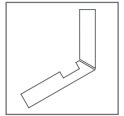
Inset door specifications



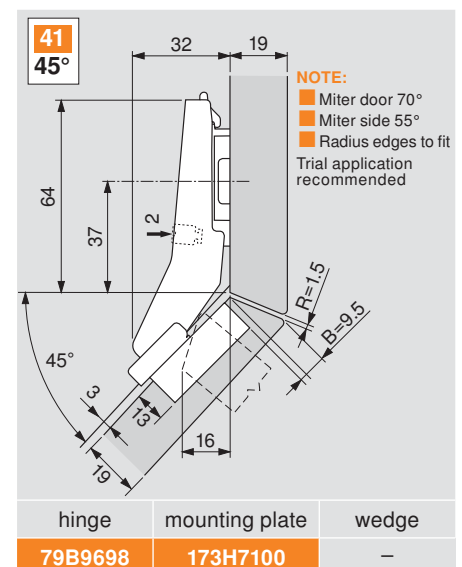
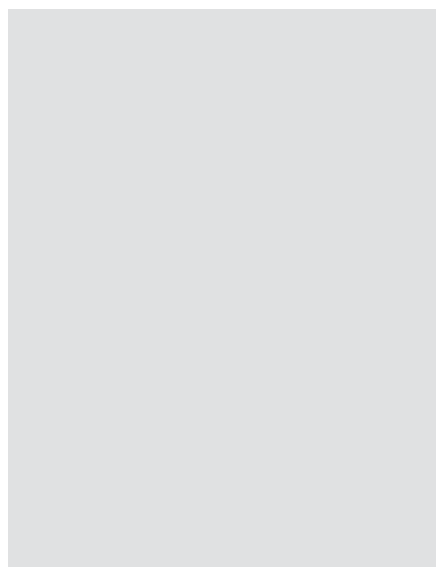
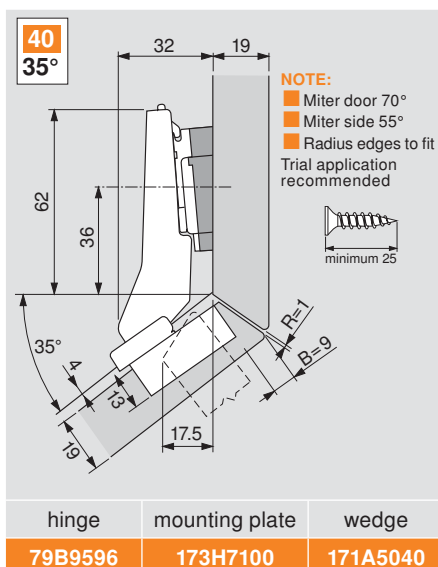
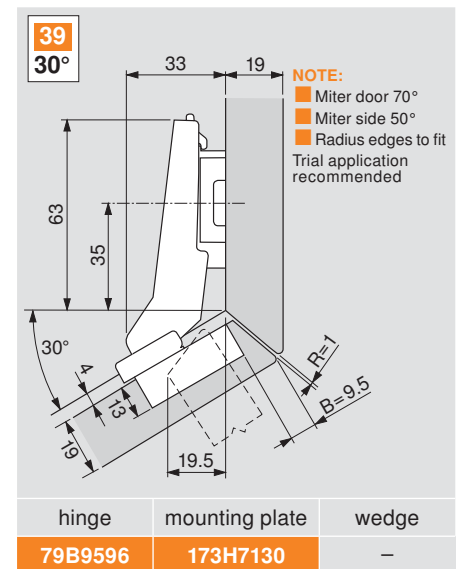
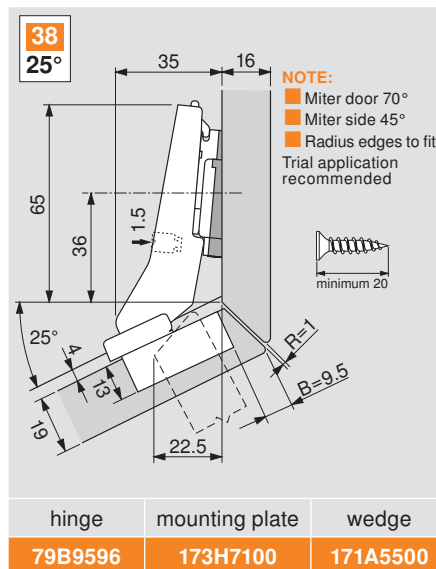
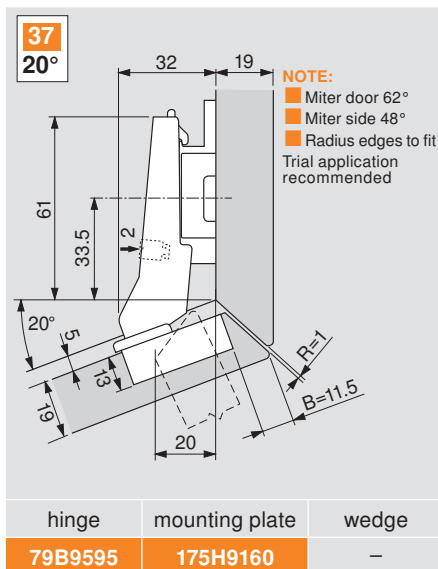
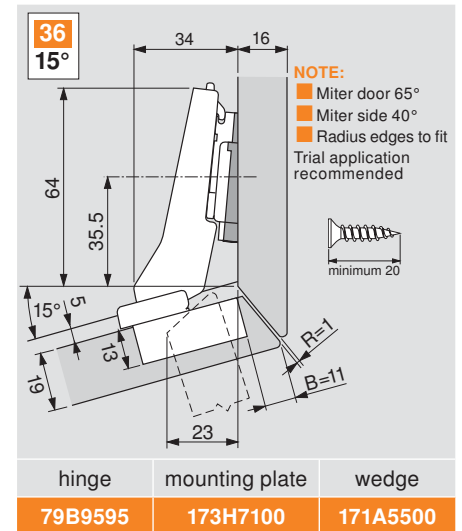
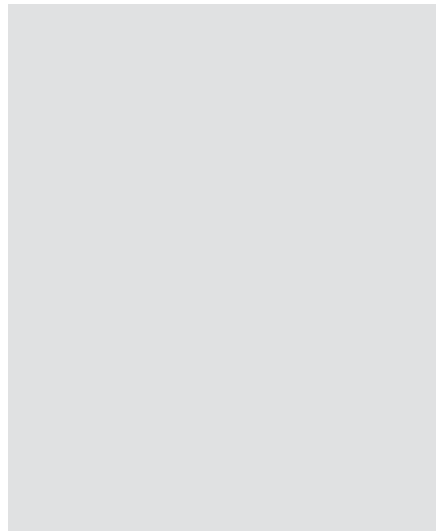
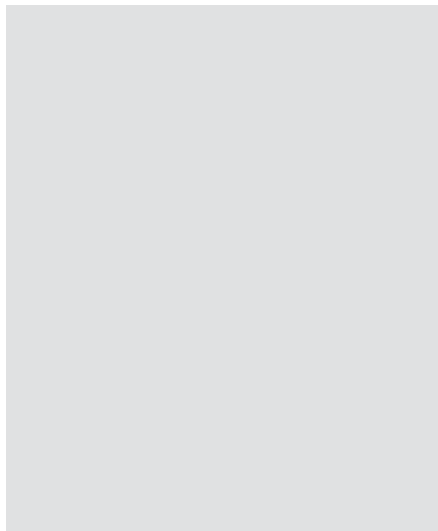
Positive angle applications



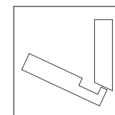
Mitered corner specifications



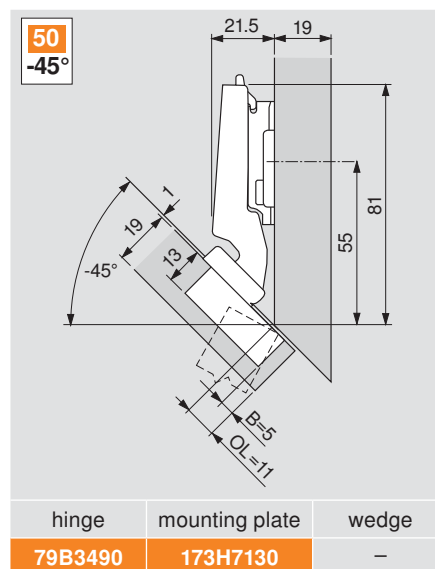
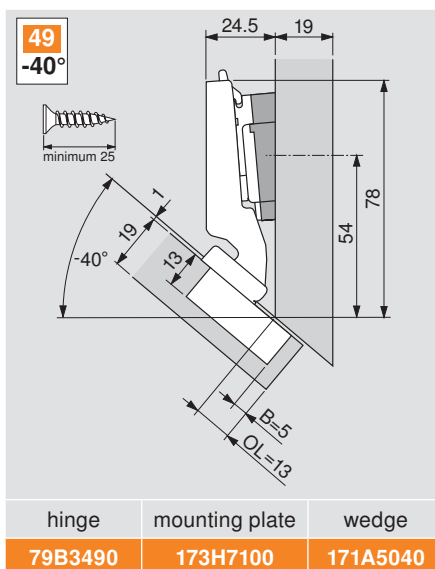
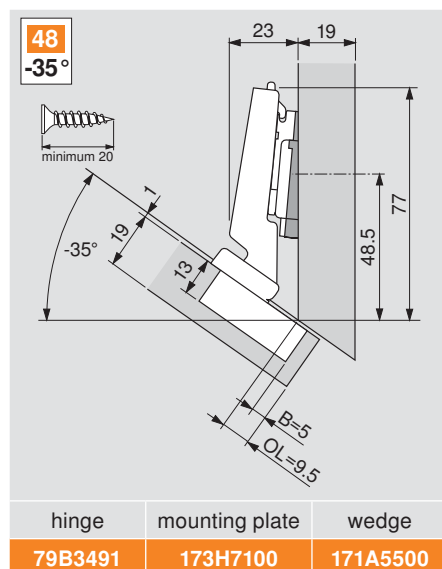
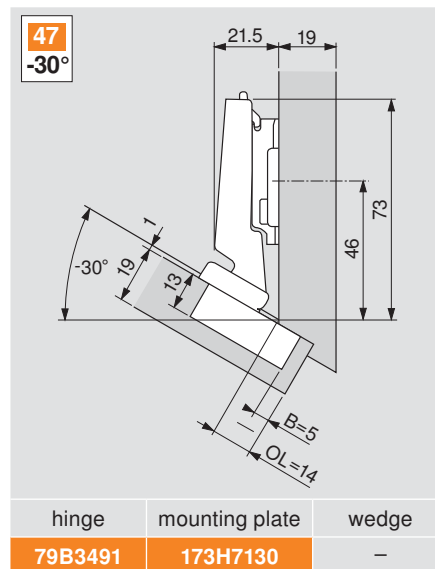
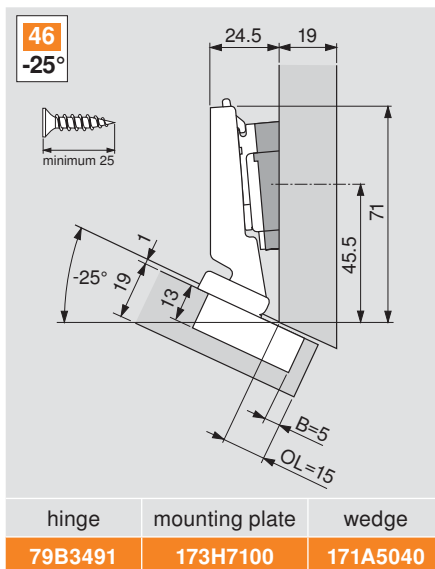
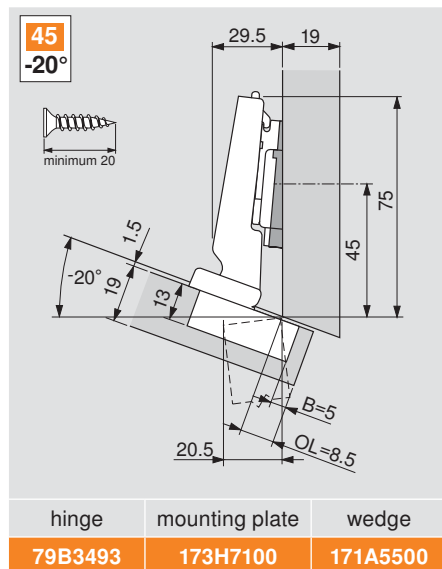
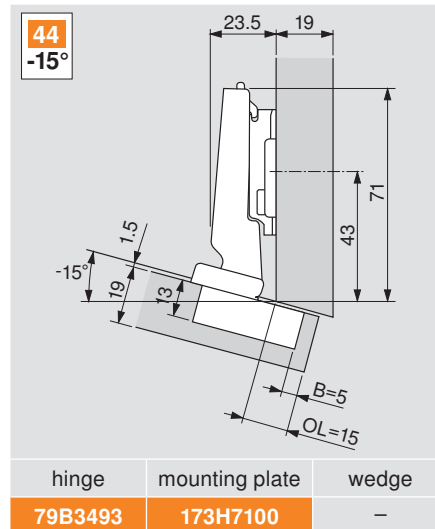
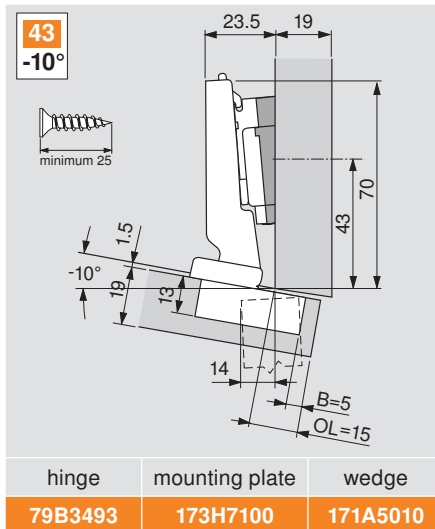
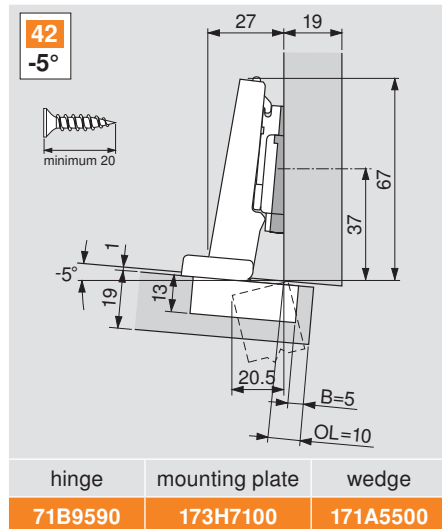
Positive angle applications



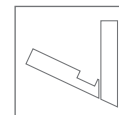
Maximum overlay specifications



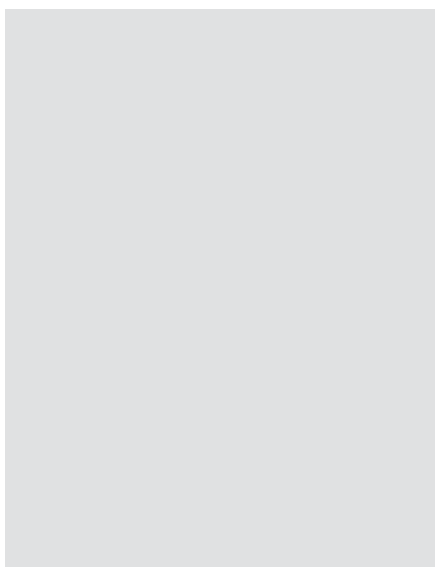
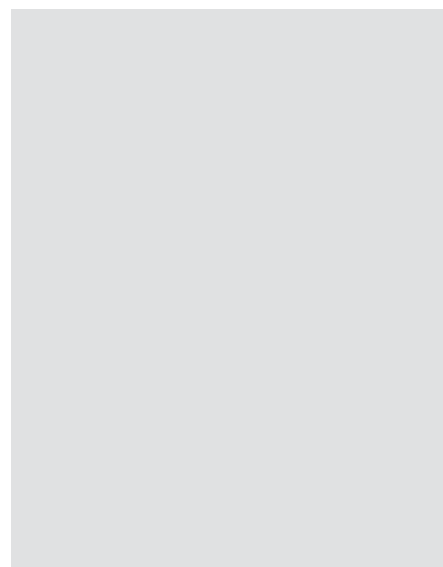
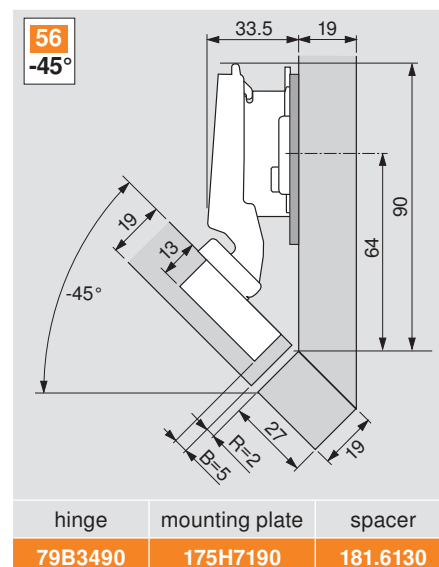
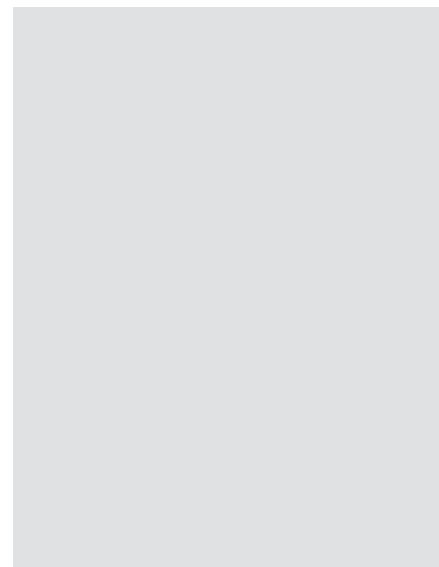
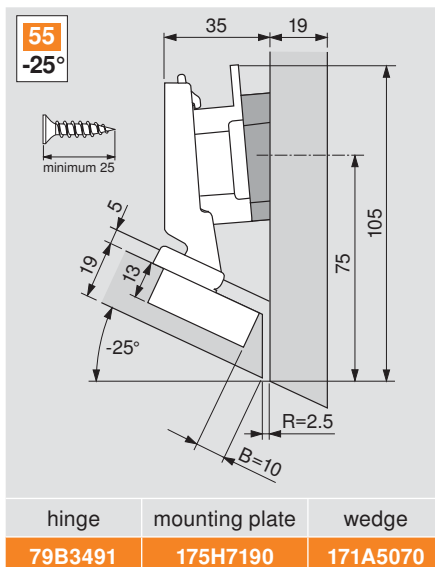
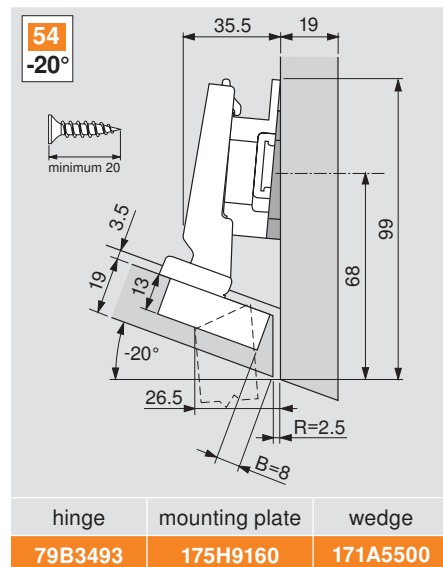
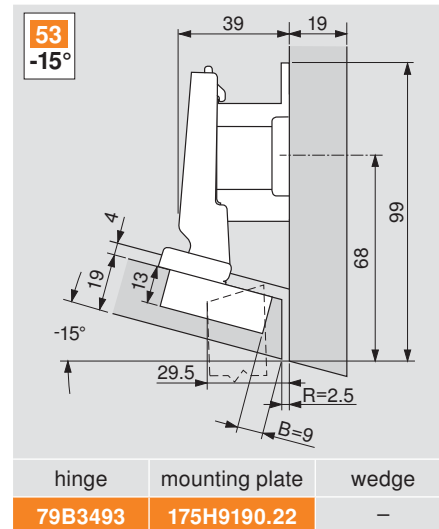
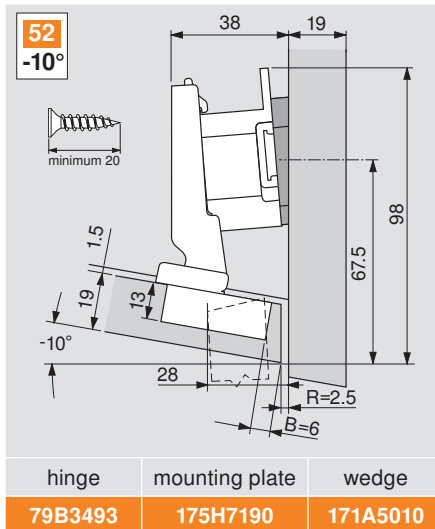
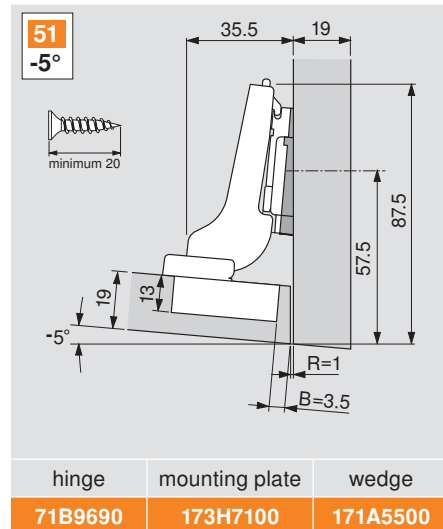
Negative angle applications



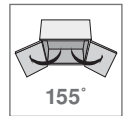
Inset door specifications



Negative angle applications



CLIP top 155° zero protrusion hinges



Features

- Zero protrusion hinge
- For use in cabinets with interior roll-outs
- For door thicknesses up to 24 (15/16")
- Add-on BLUMOTION available
- Compatible with existing CLIP mounting plates

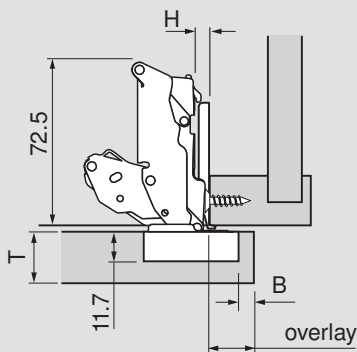


Minimum reveal table						
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
B = boring distance	16	18	19	20	22	24
T = door thickness						

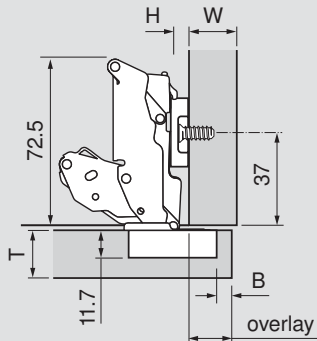
For thickness greater than 24, please see page 27

Overlay

Frame

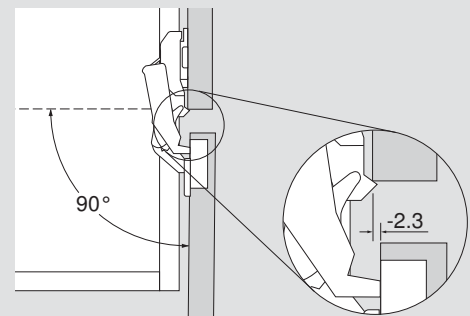


Panel



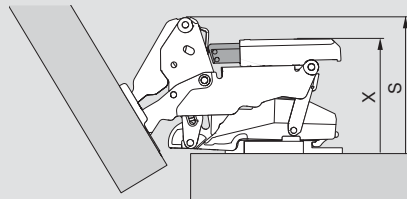
Door protrusion

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



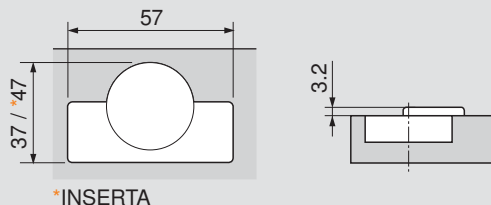
NOTE: Use of 0 mm or 3 mm is recommended for zero protrusion

BLUMOTION for 155° hinges



Hinge	X	S
CLIP top 155° straight-arm	53	61
CLIP top 155° half-cranked	63	71
Part no.		
BLUMOTION for 155° hinge	973A7000	

Hinge cup dimensions



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

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

Angle restriction clips



- For use with 155° hinges only
- Gray nylon

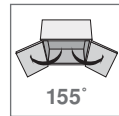
Part no.

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

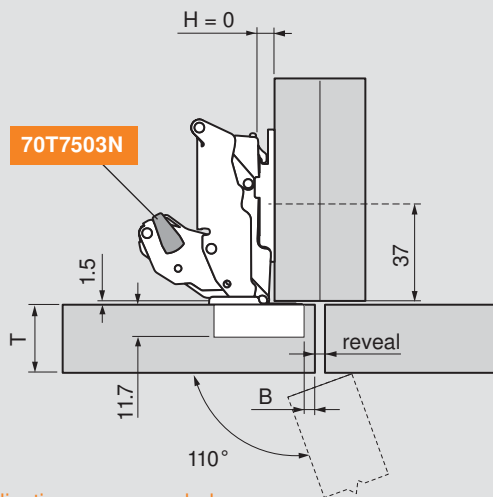
Abbreviations

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

CLIP top 155° straight-arm special applications



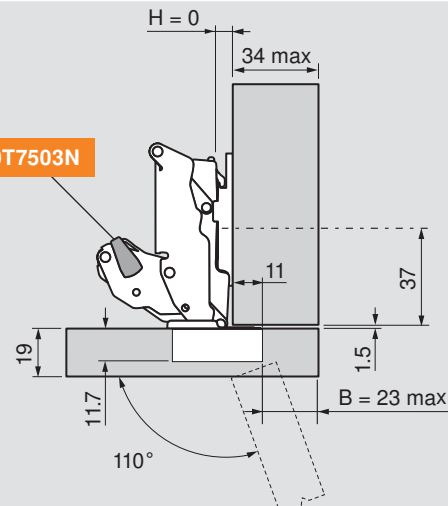
Maximum door thickness



Trial application recommended

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

Maximum door overlay



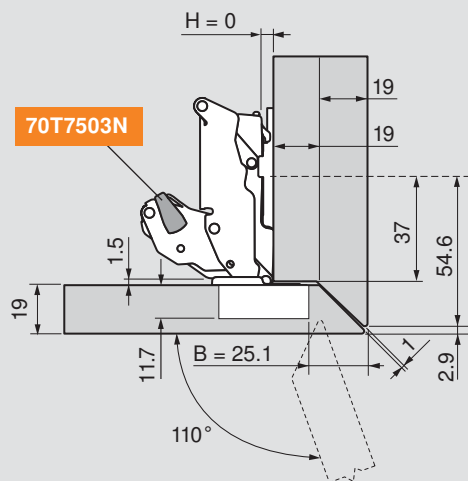
Trial application recommended

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

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

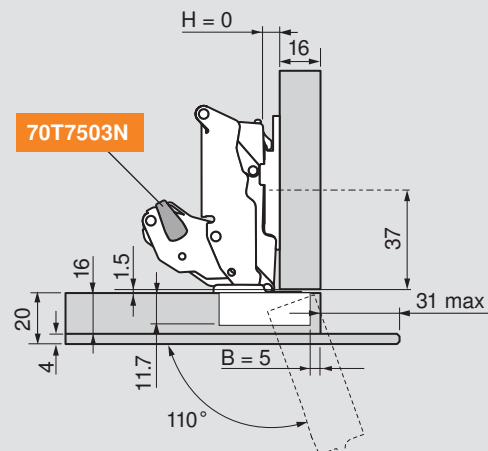
H	Overlay							
0	19	22	24	26	28	30	32	34
	8	11	13	15	17	19	21	23
	B = boring distance							

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° hinges only
- Gray nylon

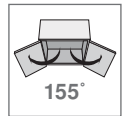
Part no.

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

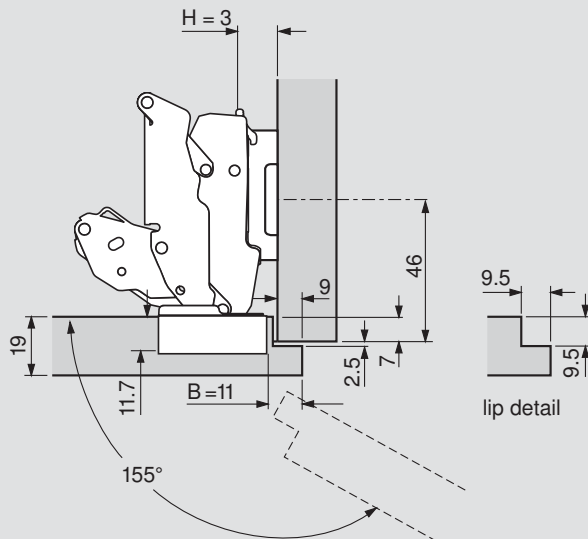
Abbreviations

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

CLIP top 155° half-cranked special applications

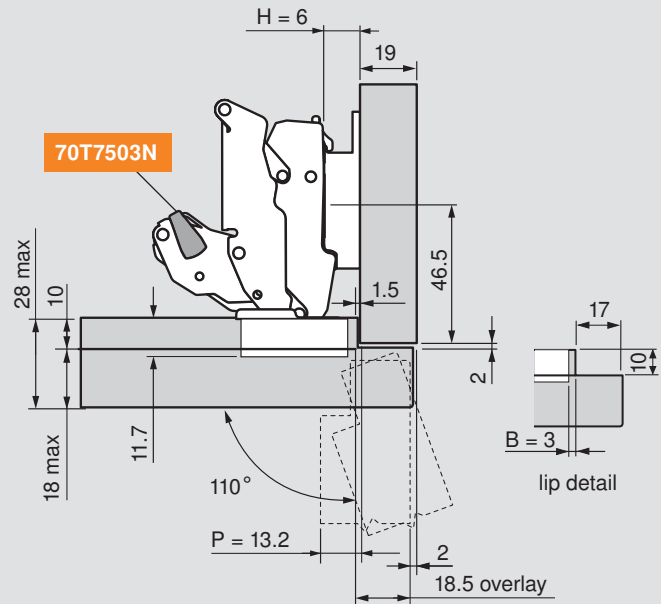


Lip door



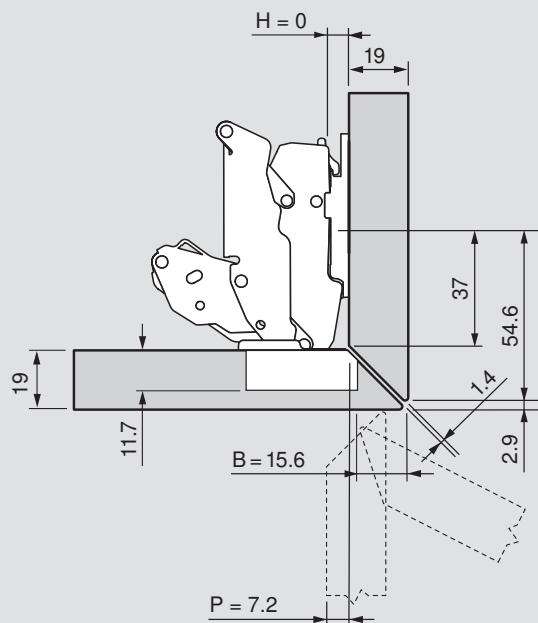
Trial application recommended

Thick lip door



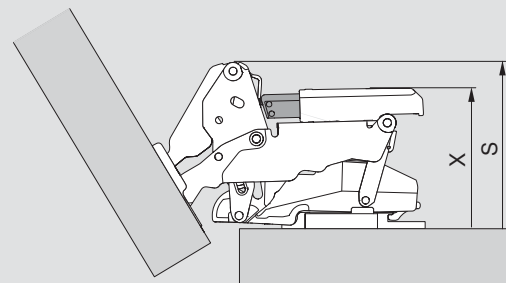
Trial application recommended

Two-sided and four-sided mitered door



Trial application recommended

BLUMOTION for 155° hinges



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

Part no.

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

Abbreviations

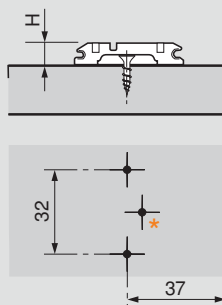
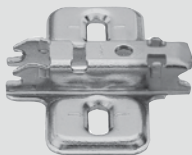
H	= Plate height
P	= Door protrusion
S	= Side arm protrusion
W	= Side panel width

CLIP mounting plates



Standard one-piece wing mounting plates

Wood screw

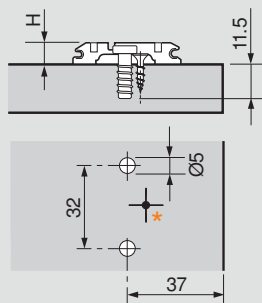


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 3 mm

Part no.

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

System screw

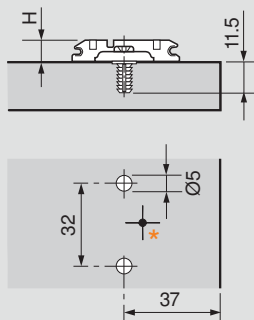


- Steel, nickel-plated
- Attached with pre-mounted Ø5 mm system screws (668.1450.EH)
- Height adjustment ± 3 mm

Part no.

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

EXPANDO

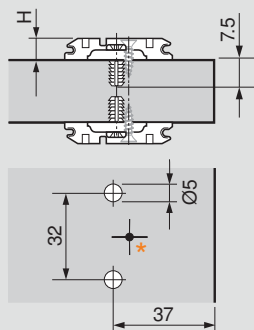


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment ± 2 mm

Part no.

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

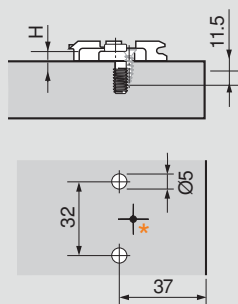


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment ± 2 mm

Part no.

0 plate height (H)	174E610Z
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System screw



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

Part no.

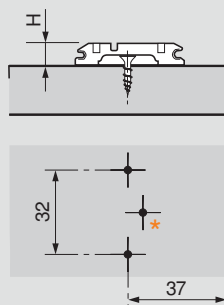
0 plate height (H)	175L8100
3 plate height (H)	175L8130
9 plate height (H)	175L8190

*Add additional wood screw if used with wide angled hinges

CLIP mounting plates

Cam adjustable wing mounting plates

Wood screw

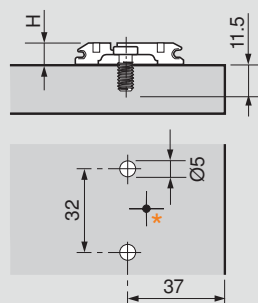
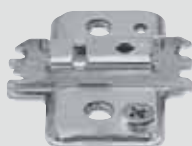


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm

Part no.

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

System screw

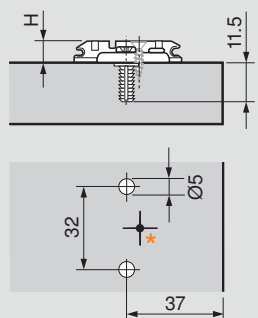


- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or Ø5 x 13 mm system screws
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	173H9100
3 plate height (H)	173H9130

EXPANDO

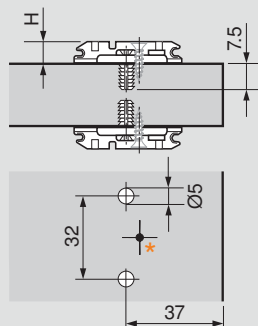


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment ± 2 mm

Part no.

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

EXPANDO (twin application)

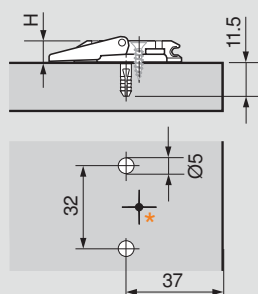


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment ± 2 mm

Part no.

0 plate height (H)	174H710ZE
--------------------	------------------

INSERTA

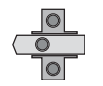


- Steel (closing lever – zinc die-cast, nickel-plated)
- Tool-free assembly with INSERTA self-anchoring feature
- Cam height adjustment ± 2 mm

Part no.

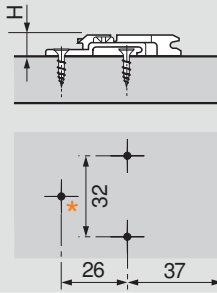
0 plate height (H)	174H7100I
3 plate height (H)	174H7130I

*Add additional wood screw if used with wide angled hinges



Standard two-piece wing mounting plates

Wood screw

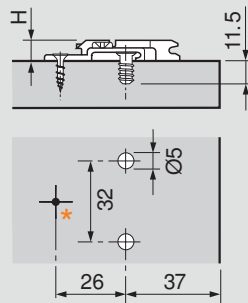
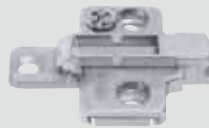


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment ± 2 mm

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

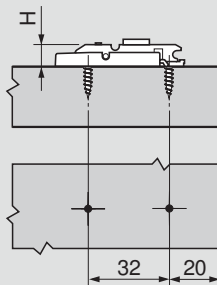
Part no.

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

*Add additional wood screw if used with wide angled hinges

Cam adjustable In-line mounting plates

Wood screw

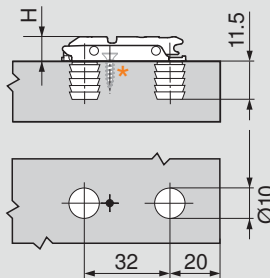


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

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

Press-in

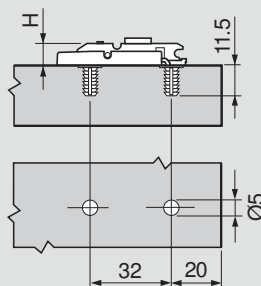


- Steel, nickel-plated
- Pre-attached with 10 mm dowels
- Cam height adjustment ± 2 mm
- **Use of insertion ram MZM.0053 required**

Part no.

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

EXPANDO

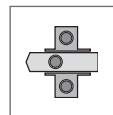


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels
- Cam height adjustment ± 2 mm
- Use of mounting plate template recommended

Part no.

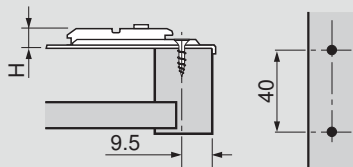
0 plate height (H)	177H3100E
3 plate height (H)	177H3130E

Face frame adapter plates



Face frame adapter plates

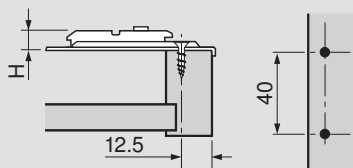
Cam adjustable center mount



- Steel, zinc die-cast and nickel-plated
 - Attached with #7 x 3/4" wood screws
 - Center mount **9.5** (3/8")
 - Cam height adjustment ± 2 mm
 - 175H6000 not for use with INSERTA hinges
- Part no.

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

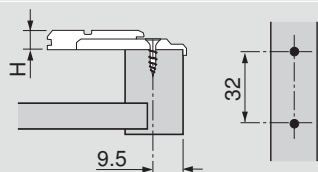
Cam adjustable off-center mount



- Steel, zinc die-cast and nickel-plated
 - Attached with #7 x 3/4" wood screws
 - For use with INSERTA hinge cups
 - Off-center mount **12.5** (1/2")
 - Cam height adjustment ± 2 mm
- Part no.

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

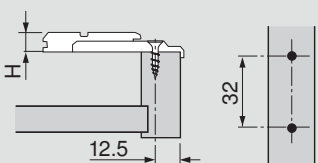
Center mount



- 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
--------------------	--------------------

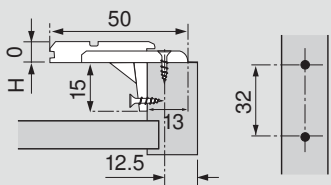
Off-center mount



- 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



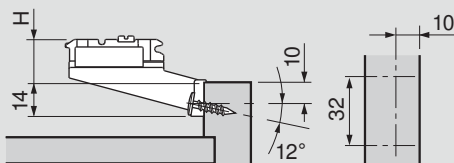
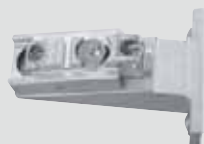
- Recommended when using 170° and zero protrusion hinges on face frame cabinets
 - Zinc die-cast, nickel-plated
 - Attached with #7 x 3/4" wood screws
 - Off-center mount **12.5** (1/2")
 - Height adjustment ± 2 mm
- Part no.

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

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

Inset face frame adapter

Truss head screw



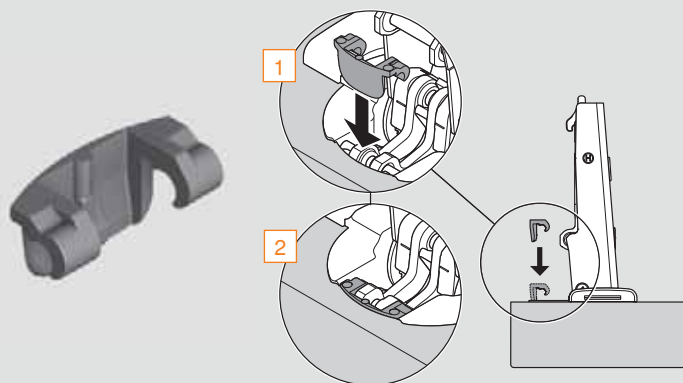
- Zinc die-cast, nickel-plated
 - Attached with #8 x 3/4" truss head screws
 - Can be used with applied bead molding
 - Cam height adjustment ± 2 mm
 - Use with half-cranked hinges only
 - Wide angle hinges not recommended
 - Use of PLATEMATE required for installation**
- Part no.

9 plate height (H)	175H5030.21
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CLIP top BLUMOTION hinge accessories

a

Angle restriction clip



- Restricts opening angle to 86°
- For use with CLIP top BLUMOTION and CLIP top 110° and 110°+ hinges
- Can be inserted/removed before or after the hinge has been installed

Part no.

Angle restriction clip

70T3553

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



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



Part no.

Hinge cup cover cap

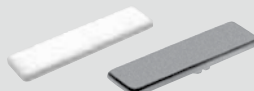
70T3504

Hinge arm cover cap

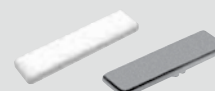


70.1503

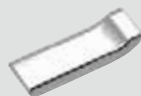
70.1503.BP
(Blum logo)



90M2103.01



90M2203



70.1663



94M3203



70.7503

nylon

steel

110°, 110°+, and 95° thick door hinges	Straight-arm	90M2103.01	70.1503
	With Blum logo		70.1503.BP
	Cranked-arm	94M3203	70.1663
155° hinges	Wide angle hinges		70.7503
45°, blind corner and narrow aluminum door hinges	Specialty hinges	90M2103.01	70.1503
Angled hinges	Straight-arm	90M2203	70.1503

NOTE: Custom logo cover caps are available in black/white nylon or in nickel-plated steel. Consult your Blum representative for minimum quantities and lead times on custom logos.



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



A complete face frame program

Since the 1980s Blum's COMPACT concealed hinge has proven itself as the high quality solution for face frame cabinets. The new BLUMOTION soft closing mechanism is integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum hardware. COMPACT BLUMOTION hinges are available for most overlay face frame applications or door styles.



39C/38C series – Full overlay hinges

COMPACT BLUMOTION 39C full overlay hinges with a 110° opening angle and 1/2" cup depth and 38C full overlay hinges with a 107° opening angle and 7/16" cup depth (ideal for profile doors).



38N series – Partial overlay hinges

COMPACT BLUMOTION 38N partial overlay hinges with a 105° opening angle and 7/16" cup depth.



38B series – Full overlay, face mount hinges

COMPACT BLUMOTION 38B full overlay face mount hinges with a 107° opening angle and 7/16" cup depth.



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.



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.



Interchangeable with COMPACT hinges

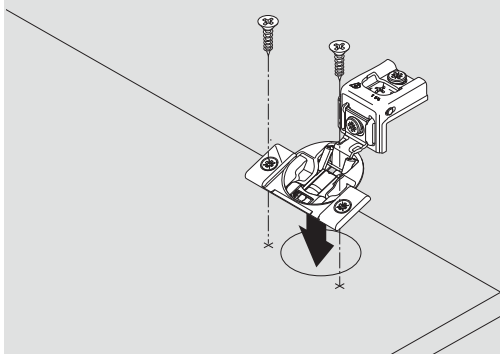
COMPACT BLUMOTION hinges are interchangeable with current COMPACT hinges so no need to change existing setups or workflows.

General specifications

BLUMOTION
inside

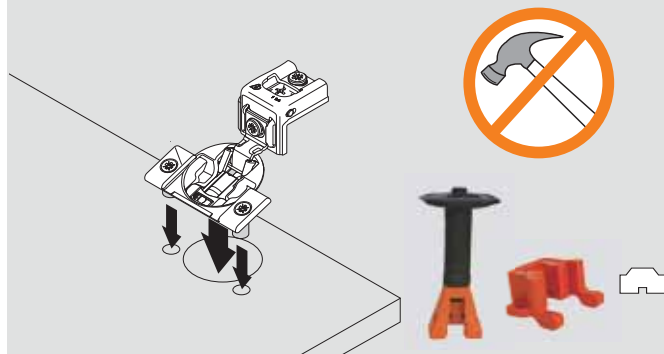
Screw-on

Use #6 wood screws



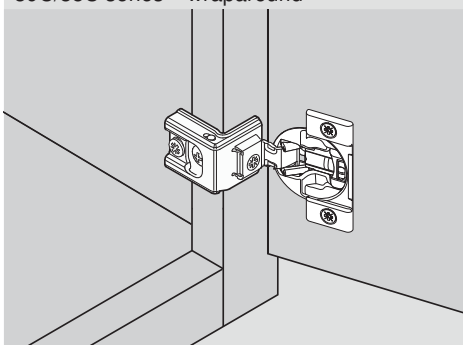
Press-in

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

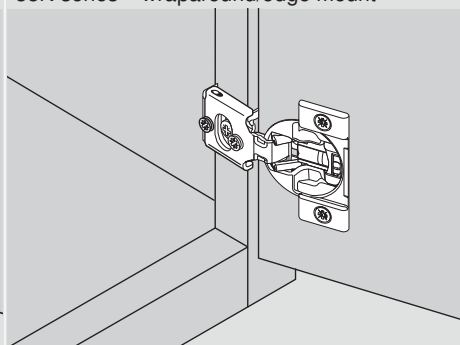


Mounting plate attachment

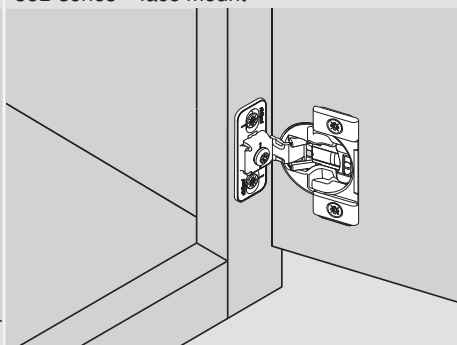
39C/38C series – wraparound



38N series – wraparound/edge mount



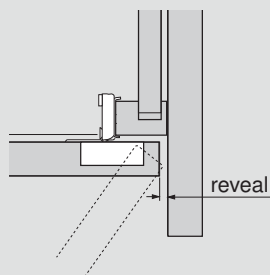
38B series – face mount



Minimum reveal

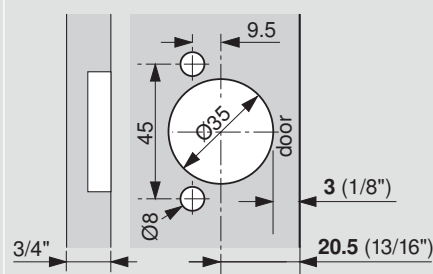
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness.

See minimum reveal table for each hinge.



Hinge cup centerpoint

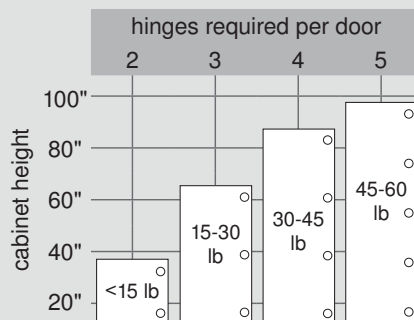
Hinge cup centerpoint and MINIPRESS/MINIDRILL setback position is **20.5 (13/16")** for COMPACT BLUMOTION hinges



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.

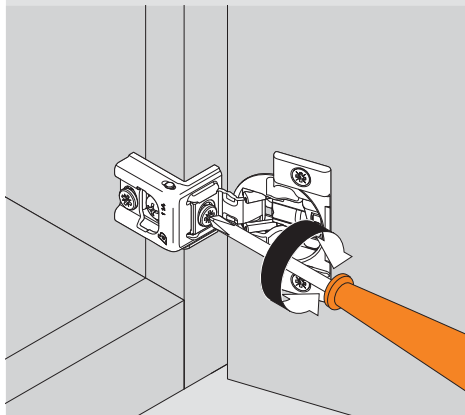
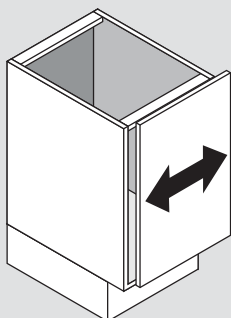


NOTE: The distance between the top and bottom hinges must be greater than the width of the door

Three-dimensional adjustment

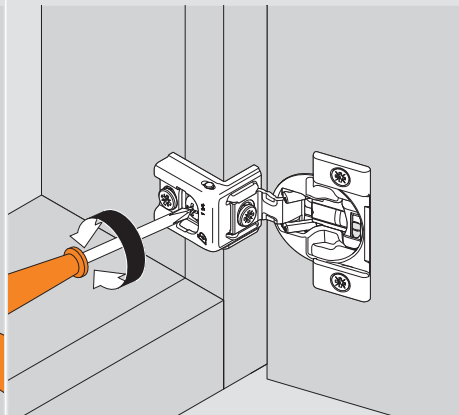
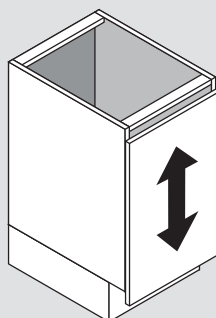
Side adjustment

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



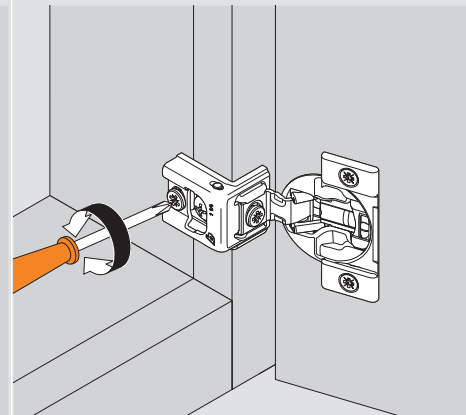
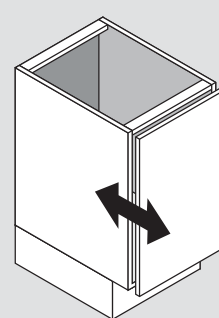
Height adjustment

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



Depth adjustment

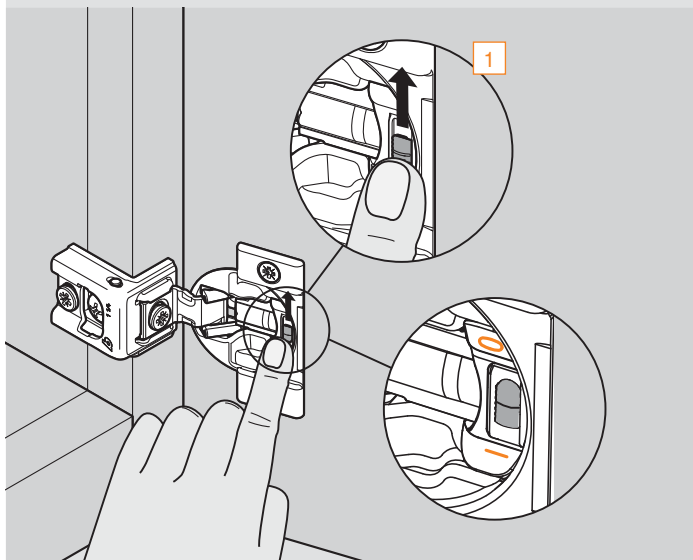
Rotate the rear cam screw to adjust door gap ($+ 3/32"$, $- 1/32"$)



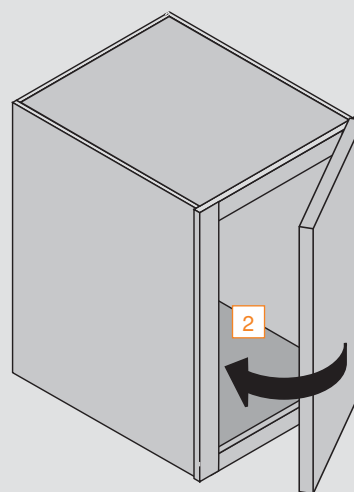
BLUMOTION deactivation

Deactivation switch on the hinge cup

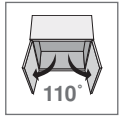
For small or light doors, the BLUMOTION can be deactivated on one of the hinges. COMPACT BLUMOTION comes in the activated position, marked with a "I". The deactivated position is marked with a "0".



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



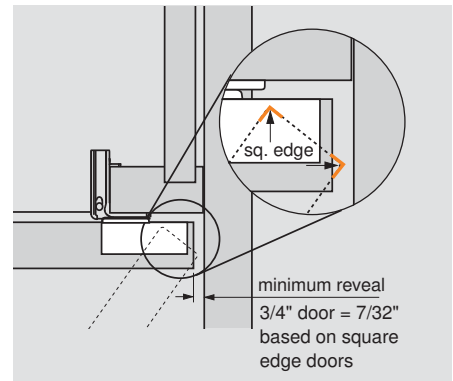
COMPACT BLUMOTION 39C hinges for full overlay



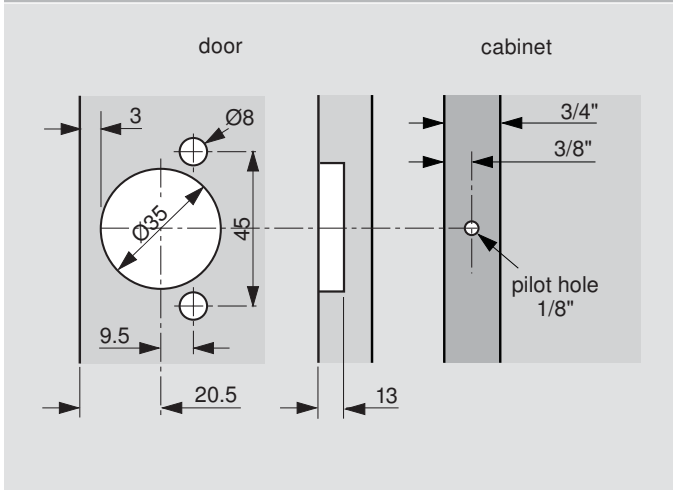
Description

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

Minimum reveal

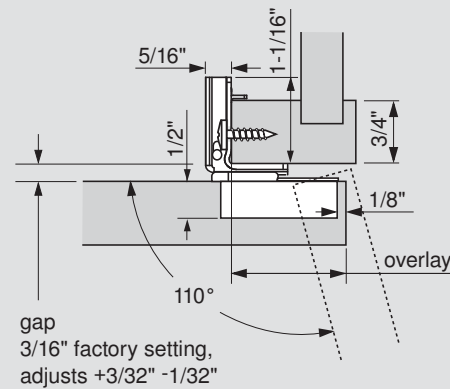


Boring pattern

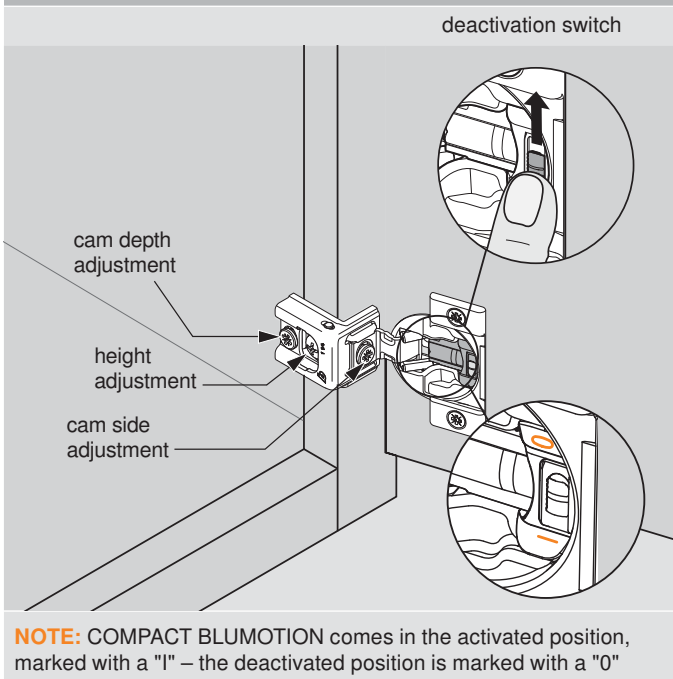


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustment



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

Wraparound hinges



overlay	screw-on	47 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

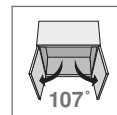
Truss head screw	834TH
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Accessories

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

*See page 42 for additional cover cap options

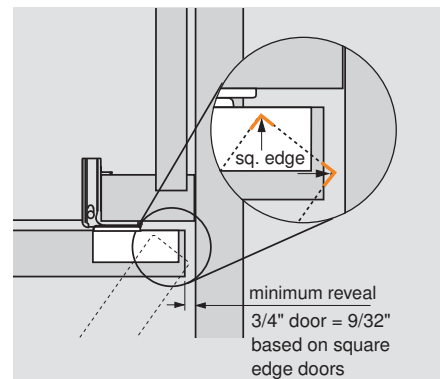
COMPACT BLUMOTION 38C hinges for full overlay



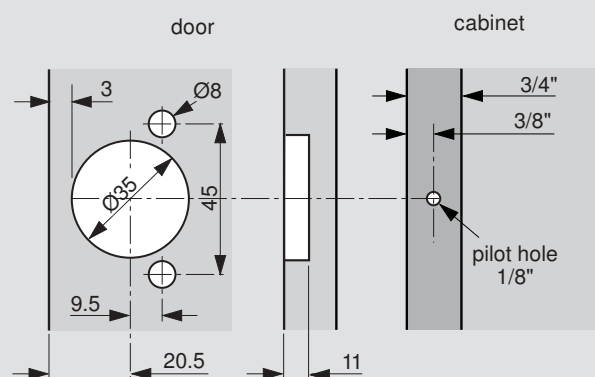
Description

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

Minimum reveal

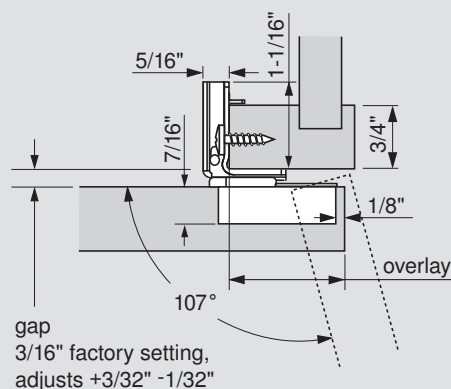


Boring pattern

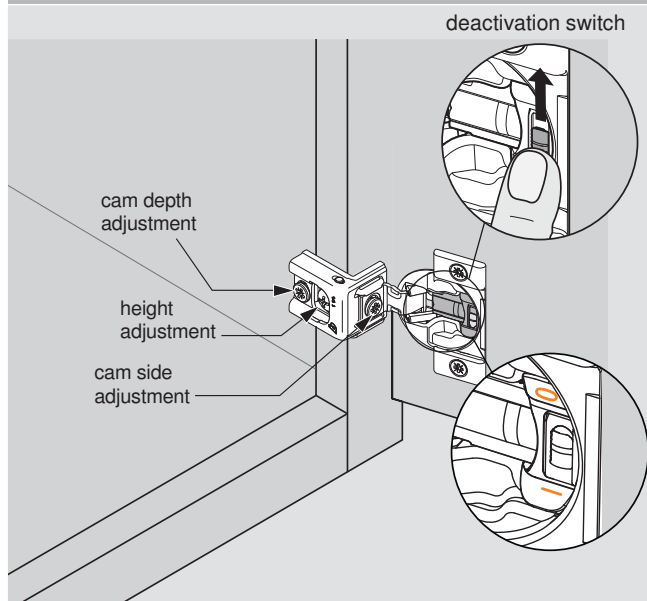


NOTE: Maximum door thickness 3/4"

Dimensions



Adjustment



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

Wraparound hinges



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

Installation screw

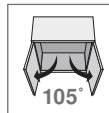
Truss head screw	834TH
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Accessories

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

*See page 42 for additional cover cap options

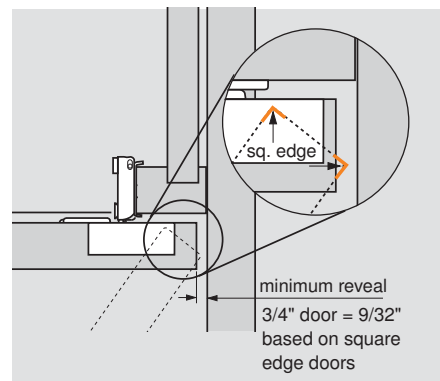
COMPACT BLUMOTION 38N hinges for partial overlay



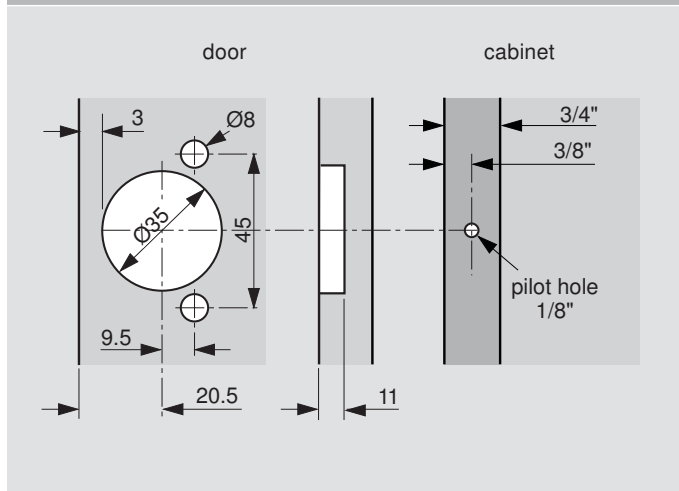
Description

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

Minimum reveal

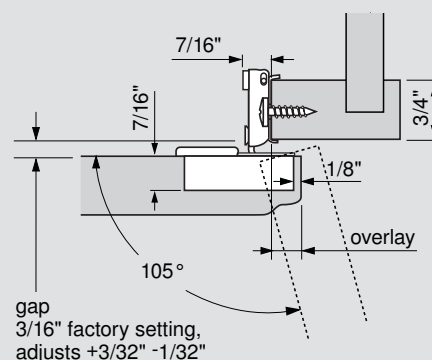


Boring pattern

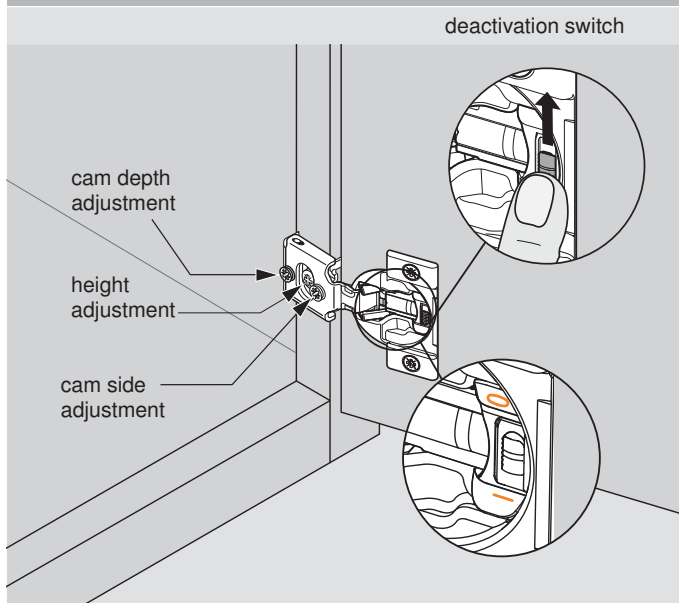


NOTE: Maximum door thickness 3/4"

Dimensions

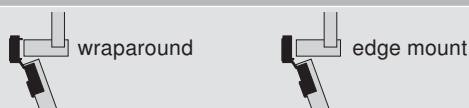


Adjustment



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

Wraparound and edge mount hinges



overlay	door protrusion	screw-on	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
------------------	-------

Accessories

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

*See page 42 for additional cover cap options

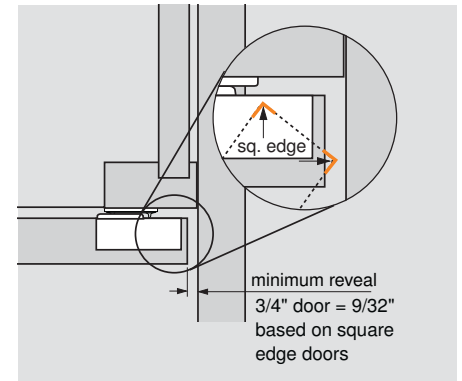
COMPACT BLUMOTION 38B hinges for face mount



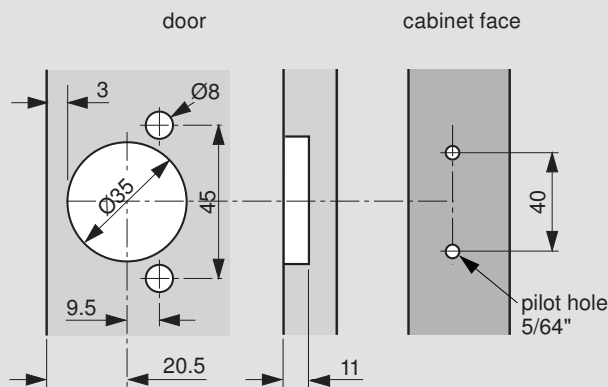
Description

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

Minimum reveal

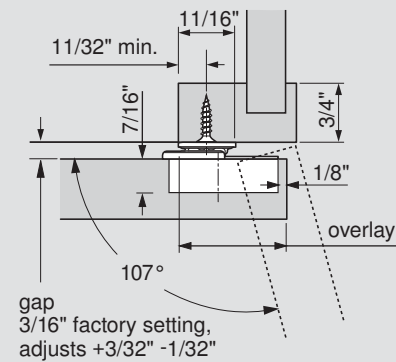


Boring pattern

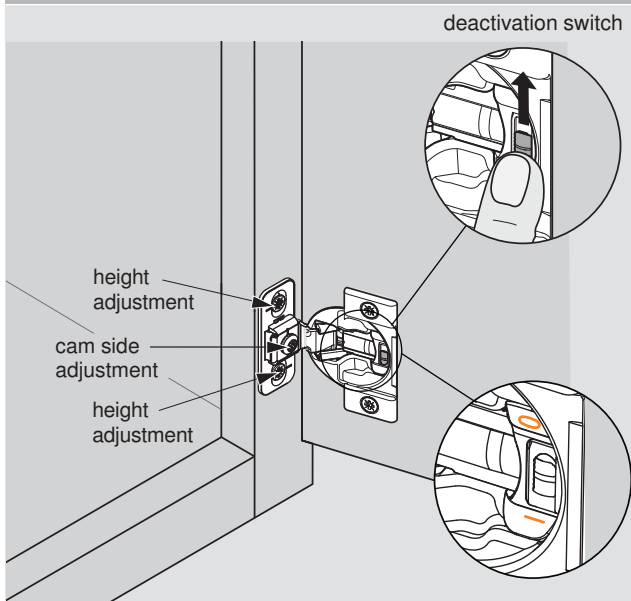


NOTE: Maximum door thickness 3/4"

Dimensions

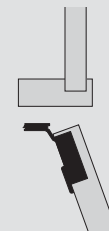


Adjustment



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
----------------------	---------------------

Accessories

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

COMPACT BLUMOTION hinge accessories

a

Hinge arm cover caps



39C/38C cover cap



38N cover cap



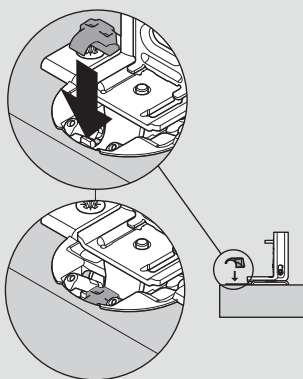
- Steel, nickel-plated cap
- Available blank or embossed (Blum logo)
- Also available with printed custom logo (minimum order quantity applies)

Part no.

39C/38C blank cover cap	38C3508
39C/38C Blum logo embossed cover cap	38C3508.BP
39C/38C Blum logo with black ink cover cap	38C3508.BL
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

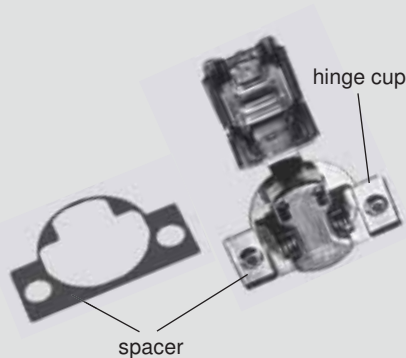


Part no.

Angle restriction clip **38C315B3.1**

Hinge cup spacer

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

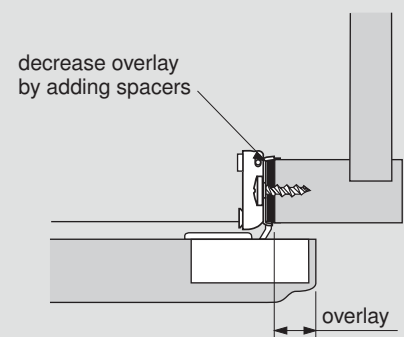
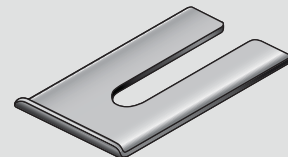


Part no.

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**

Assembly aids

a

Deep thread wood screw

- For attaching hinges and mounting plates

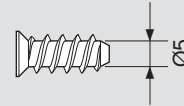


Part no.

#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

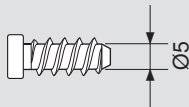


Part no.

#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

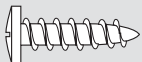


Part no.

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

- For attaching hinge to face frame
- Type 17



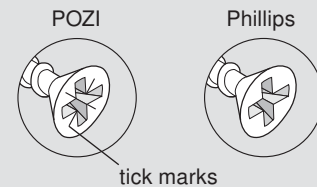
Part no.

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

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 1" POZI bit insert	POZI BIT #2X2

Twin application screw

- Pre-bored Ø5 (3/16") hole

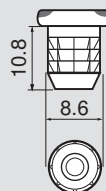


Part no.

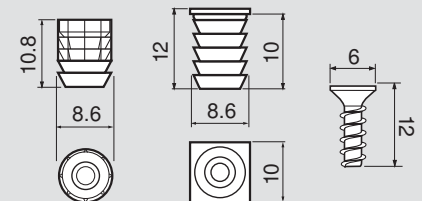
14 (9/16") screw	612.2010
20 (25/32") sleeve	612.2020
24 (15/16") sleeve	612.2420

Ø8 millimeter dowels

Square head dowel for attaching to hinges



Round dowel for insertion into doors



Part no.

Part no.	Ø8 mm round dowel	70.0532
Ø8 mm square dowel	With flange	34.3582.01
Installation screw	Installation screw	608.1200

Assembly aids

Machines

MINIPRESS P – Deluxe boring and insertion machine



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

Part no.

Single phase – 220V power

M53.1053*US

Three-phase – 220V power

M53.1004*US

MINIPRESS M – 110V manual boring and insertion machine



- 110V power with molding plug (portable)
- Does not require pressurized air
- Ruler stops (qty 4)
- Tool kit included
- Dust collection attachment
- Accepts new 8 or 9 spindle heads

Part no.

Single phase – 110V power

M52.1056*US

MINIDRILL P – Standard boring machine



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

Part no.

Single phase – 220V power

M53.1053*50

Machine accessories

9 spindle head



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

Includes:

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

Part no.

9 spindle head	MZK.190S
Chuck cover cap	M30.1329

8 spindle head



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

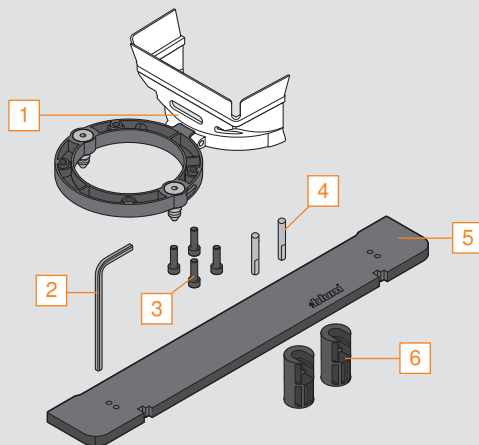
Includes:

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

Part no.

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

Spindle head retrofit set



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

Set includes:

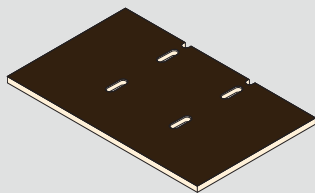
- 1 Adapter ring and shield
- 2 Ø5 mm allen wrench
- 3 Mounting bolts (qty 4)
- 4 Alignment pins (qty 2)
- 5 Alignment template
- 6 13 mm fixed depth stop (qty 2)

Part no.

Spindle head retrofit set	M30.1313.UM
---------------------------	--------------------

Assembly aids

Work table for M51 machine

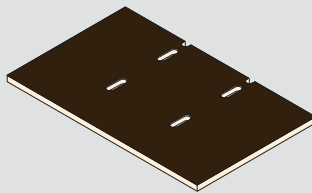


Part no.

Work table

MZA.1000

Work table for M52 machine

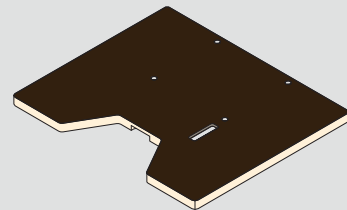


Part no.

Work table

MZA.5200

Work table for M53 machine



Part no.

Work table

MZA.5300

Center ruler



Part no.

Center ruler, 600 (2')

M30.0212

Extension ruler



Part no.

Extension ruler

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



NOTE: Not for use with CLIP top BLUMOTION and CLIP top 95°, CLIP 100°, wide angle or specialty hinges

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° and 155° wide angle hinges

Part no.

#40 insertion ram

MZM.0040**COMPACT hinge insertion ram**

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



Part no.

#47 insertion ram

MZM.0047**Mounting plate insertion Ram**

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



Part no.

#53 insertion ram

MZM.0053**Machine drill bits**

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 with center point

M01.ZB35.02 R**Twist drill bits – high speed steel**

VPB-5



Twist drill bit



*Chuck for DB-2mm

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

Assembly aids

Knock-in tool



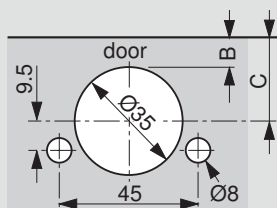
- Can be used to insert all Blum press-in hinges

Part no.

Knock-in tool

ZME.0710

ECODRILL



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

ECODRILL

M31.1000

Accessories

Replacement Ø35 mm bit

M31.ZB35.02

Replacement Ø8 mm bit

M31.ZB08.02

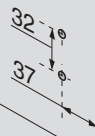
Tool set

MZW.1300

ECOJIG



holes are:
32mm apart,
37mm setback



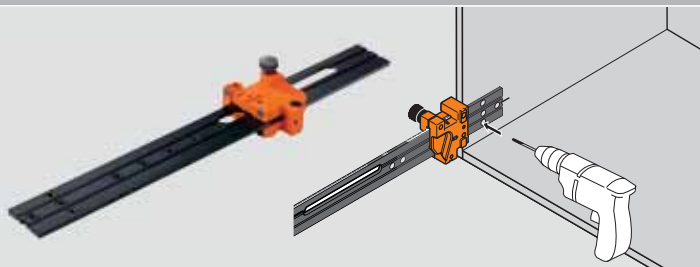
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

65.5070

Universal individual template



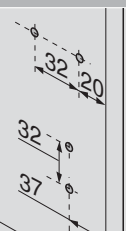
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

Part no.

Universal individual template

65.1051.01

Mounting plate template



- Use with CLIP mounting plates on overlay applications on panel cabinets
- For wing mounting plates (37 mm setback) and in-line mounting plates (20 mm setback)
- Simple location of mounting plate screw positions
- Pilot bore Ø2.5 mm holes for wood screws

Part no.

Mounting plate template

65.5300

QUICKFIX

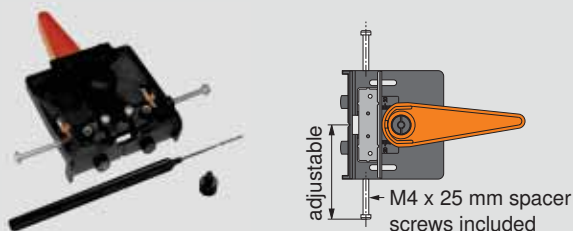


- Drilling sleeve dimensions changed from 2.5 mm to 5 mm for drilling for in-line mounting plates
- Locates/matches positions of hinges and plates on cabinets and doors
- Transfers positions from door-to-cabinet and cabinet-to-door
- Adjustable stop for various door overlays
- For use with wing or in-line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

Dowelling fixture



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

Part no.

Dowelling fixture	69.3600
-------------------	---------

INSERTA boring template

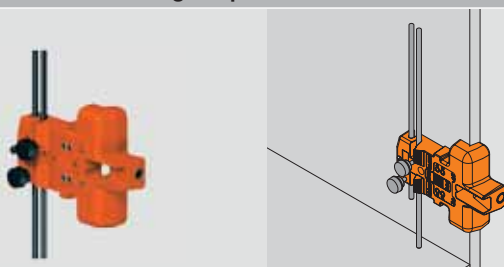


- For boring Ø8 mm dowel holes after Ø35 mm hole is bored
- Boring distance adjusts from 2 mm to 8 mm
- Also bores Ø5 mm holes for system screw mounting plates
- Includes drill stop collar to pilot bore Ø2.5 mm for screw-on plates

Part no.

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

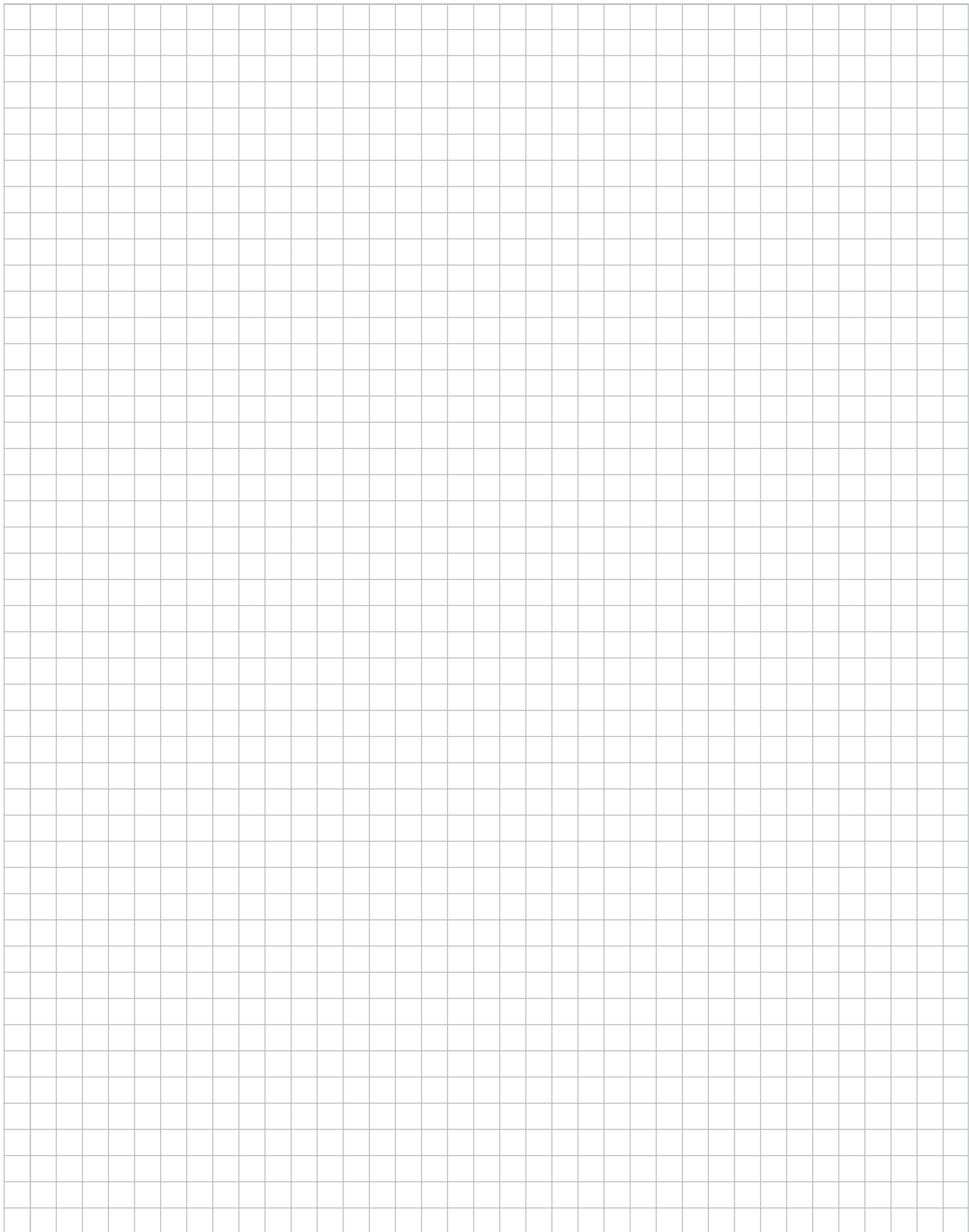
BLUMOTION for doors boring template



- 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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