

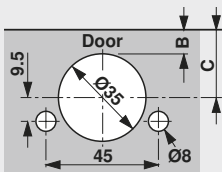


Concealed hinges

Function and design for perfect motion

Quick reference

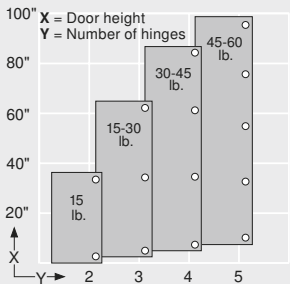
Hinge cup centerpoint



C Cup Centerpoint					
20.5	21.5	22.5	23.5	24.5	25.5
3	4	5	6	7*	8*
B Bore distance					

* only for use with certain Blum hinges

Hinges per door

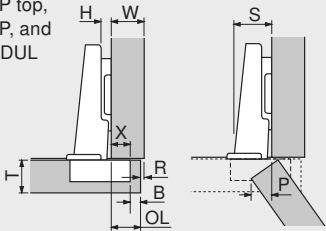


This chart can serve as a guide for determining the number of hinges per door. Note that door weight can also determine the number of hinges required.

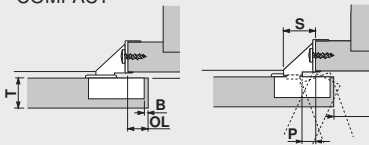
* The distance between the two hinges must be greater than the width of the door for maximum stability.

Hinge abbreviation key

CLIP top,
CLIP, and
MODUL



COMPACT



B = Boring distance

H = Mounting plate height

OL = Door overlay

P = Door protrusion

(at max. opening)

R = Reveal

S = Hinge arm protrusion

T = Door thickness

W = Side panel width

X = Fixed cup distance

Conversion Chart

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

Fixed distance (X)

The distance that the cup overlays the cabinet side panel when a hinge is attached to a 0mm mounting plate. This is used to calculate hinge Overlay with the formula $X + B - H = OL$ (Fixed Distance + Boring Distance - Mounting Plate height = Overlay).



Beautiful hinges inside and out

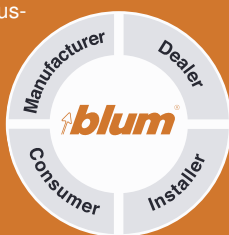


Blum, Inc. is a leading manufacturer of functional hardware for the cabinet and furniture industry specializing in concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make casegoods functional are available within the wide range of lifetime guaranteed Blum products.

Blum's manufacturing and distribution complex in Stanley, North Carolina supplies the North American markets through a network of more than 150 dependable distributors. Wholly owned by the Blum family, the company was formed in 1952 by Julius Blum and is headquartered in Hoechst, Austria.

Global customer benefits

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 from the cabinetmaker to the end consumer.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. Blum hardware is also backed with a lifetime guarantee. What's more they exceed the requirements of ANSI-BHMA standards for cycle life, static load and self-closing performance. Contact your local Blum representative for more details.

CLIP and CLIP top hinge series



- Audible "CLIP" sound confirms the secure connection between hinge and plate
- INSERTA Tool-free attachment and removal
- Mounting plates for panel and face frame
- Nickel plated steel construction
- 3-dimensional adjustments for precise door alignment
- Hinges for angled solutions

CLIP top – Blum's top-of-the-line hinge with the exclusive Spiral-Tech depth adjustment

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

MODUL hinge series



- Simple slide on attachment
- Economical solution
- Mounting plates for panel and face frame
- Nickel plated steel construction
- 3-dimensional adjustment for precise door alignment
- Functional and long lasting

COMPACT hinge series



- Small profile for face frame cabinets
- 38/39 series
 - Nickel plated steel construction
 - 38N and 38/39C: 3-dimensional adjustment
 - 38A: 2-dimensional adjustment
 - 38.: height adjustment
- 33 series
 - Nickel plated zinc die cast construction
 - 2-dimensional adjustment
 - Wide variety of small and large overlays

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CLIP top and CLIP hinges

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CLIP top/CLIP

CLIP top angled hinges

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Angle-to-style cross-reference	page 35		

Angled

CLIP mounting plates

Mounting plates	pages 45-48		
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CLIP plates

MODUL hinges and mounting plates

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General specifications	page 51	Cover caps	page 57
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MODUL

COMPACT hinges

Program Overview	Pages 59-60	Hinges	pages 64-69
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General specifications	page 63		

COMPACT

BLUMOTION for doors

Program overview	pages 73-74	Adapter plates	pages 77-78
Mounting options	page 75		
Applications	page 76		

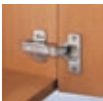
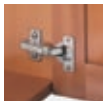
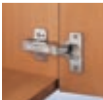
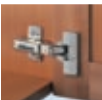
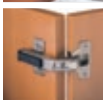
BLUMOTION

Machines and assembly aids

Templates and accessories	pages 81-84	MINIPRESS / MINIDRILL	page 87-88
BLUMOTION for doors boring template	page 82	Knock-in tool & drill bits	page 89
Screws, bumpers, dowels and POZI driver	pages 85-86	Blum testing standards	page 90

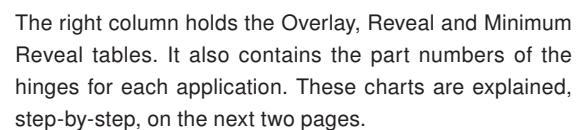
Assembly aids



	CLIP top	CLIP	MODUL
100° hinge		 page 22	 page 52
107° hinge	 page 11	 page 23	
120° hinge	 120° page 12 120°+ page 13		
170° hinge	 170° page 14 Special page 15	 page 24	 page 53
Thick door hinge	 page 16		
Zero protrusion hinge	 page 17		
Aluminum door hinge	 page 18		
Blind corner hinge	 Inset page 19 Overlay page 20		
Diagonal 45° hinge	 page 21		
Mini hinge		 page 25	
Glass door hinge		 page 26	 page 54
Bi-fold hinge		 page 27	
Angled hinges	 page 31		
Mounting plates	 page 45	 page 45	 page 55
BLUMOTION inside	 page 73	 page 73	

cabinet. The right column holds the overlay and reveal tables. Blum makes it easy to use CLIP top, CLIP and MODUL no matter which type of cabinet you build.

To use Euro hinges in a face frame cabinet use the left column.



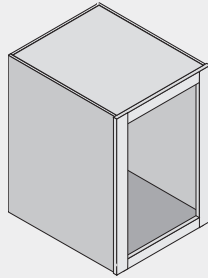
To use Euro hinges in a frameless cabinet use the center column.

Using this section - CLIP top, CLIP and MODUL hinges

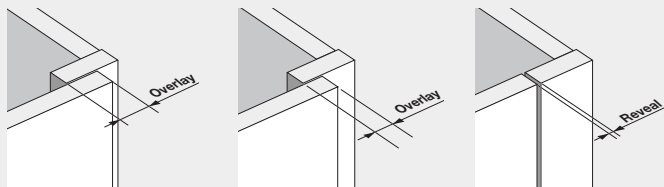
Face frame cabinets

Step 1: Determine cabinet construction

Face frame cabinet



Step 2: Determine the overlay or reveal



Overlay door

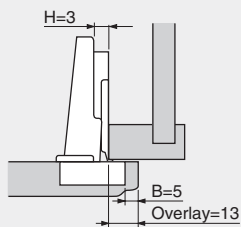
Partial Overlay door

Inset door

Step 3: Find boring distance and mounting plate height in the table. Example:

Overlay table									
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			
H	3	4	5	6	P	S			
Plate	B Bore distance				Clearance				

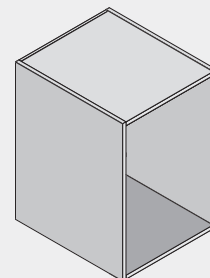
11 fixed distance



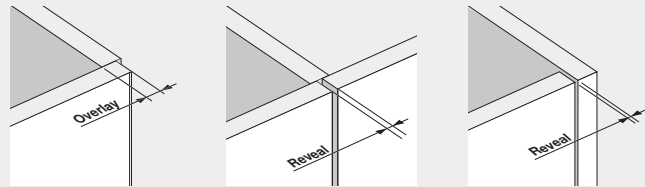
Panel cabinets

Step 1: Determine cabinet construction

Panel cabinet



Step 2: Determine the overlay or reveal



Overlay door

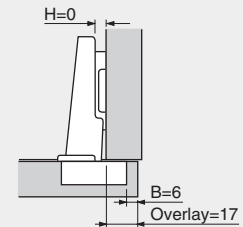
Twin doors

Inset door

Step 3: Find boring distance and mounting plate height in the table. Example:

Overlay table									
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			
H	3	4	5	6	P	S			
Plate	B Bore distance				Clearance				

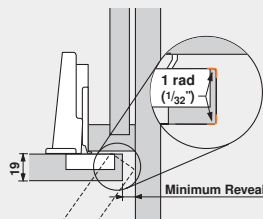
11 fixed distance



Step 4: Check minimum reveal table

All minimum reveal tables are based on square edge doors with a 1mm radius. A larger radius or profile door will reduce the minimum reveal. Trial recommended.

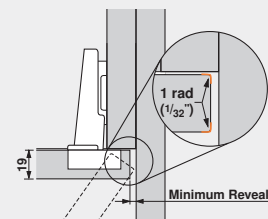
Minimum reveal table					
1.2	1.7	2.0	2.4	3.3	3
1.2	1.7	2.0	2.3	3.1	4
1.1	1.6	1.9	2.2	3.0	5
1.1	1.6	1.9	2.2	2.9	6
16	18	19	20	22	B
T Door thickness					Bore



Step 4: Check minimum reveal table

All minimum reveal tables are based on square edge doors with a 1mm radius. A larger radius or profile door will reduce the minimum reveal. Trial recommended.

Minimum reveal table					
1.2	1.7	2.0	2.4	3.3	3
1.2	1.7	2.0	2.3	3.1	4
1.1	1.6	1.9	2.2	3.0	5
1.1	1.6	1.9	2.2	2.9	6
16	18	19	20	22	B
T Door thickness					Bore



Step 5: Select hinge

Straight-arm hinges

	Self close	Free swing
Screw-on	71T5550	70T5550
Press-in 	71T5580	70T5580
Expando	71T558E	-
INSERTA	71T5590	70T5590

Step 5: Select hinge

Straight-arm hinges

	Self close	Free swing
Screw-on	71T5550	70T5550
Press-in 	71T5580	70T5580
Expando	71T558E	-
INSERTA	71T5590	70T5590

CLIP top 120° hinges



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

page 26
pages 45-49
page 73

Minimum Reveal

Minimum reveal table						
1.2	1.7	2.0	2.4	3.3	3	
1.2	1.7	2.0	2.3	3.1	4	
1.1	1.6	1.9	2.2	3.0	5	
1.1	1.6	1.9	2.2	2.9	6	
16	18	19	20	22	B	
T Door thickness				B Bore		

For door thickness greater than 22mm trial application recommended or use Thick door hinge (page 16).

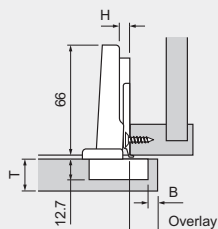
Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

CLIP top/CLIP

Step 1

Frame cabinet applications

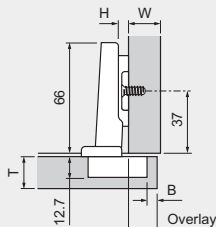
Overlay door



Step 2

Panel cabinet applications

Overlay door



See back cover fold out for more specifications →

Straight-arm hinges

	Self close	Free swing
Screw-on	71T5550	70T5550
Press-in	71T5580	70T5580
Expando	71T558E	-
INSERTA	71T5590	70T5590

Overlay table

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

H Plate 3 4 5 6 P S
B Bore distance Clearances
11 fixed distance

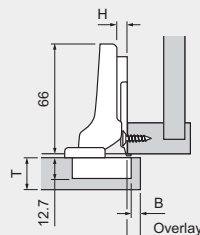
Note:
4.5 plate only available for face frame, 9 plate only available for panel cabinets

Step 4

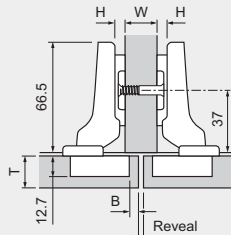
Step 5

Step 3

Partial overlay door



Twin overlay doors



Half-ported hinges (9.5mm)

	Self close	Free swing
Screw-on	71T5650	70T5650
Press-in	71T5680	70T5680
INSERTA	71T5690	70T5690

Overlay table

0	4.5	5.5	6.5	7.5	21.5	30
H Plate	3	4	5	6	P	S
B Bore distance Clearances						

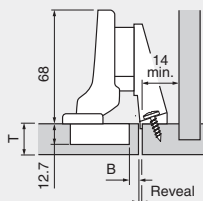
1.5 fixed distance

Reveal table

0	7	5	3	1	16	
10	8	6	4	19	21.5	30
13	11	9	7	22		
H Plate	3	4	5	6	W	P S
B Bore distance Clearances						

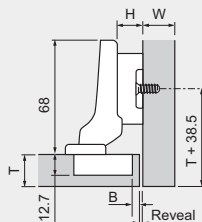
-7.5 fixed distance

Inset door



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

Inset door



Half-ported hinges (9.5mm)

	Self close	Free swing
Screw-on	71T5650	70T5650
Press-in	71T5680	70T5680
INSERTA	71T5690	70T5690

Reveal table

9	4.5	3.5	2.5	1.5	30.5	39
H Plate	3	4	5	6	P	S
B Bore distance Clearances						

-7.5 fixed distance

Ram needed for use with MINIPRESS

For more information on using this section see page 5.
All dimensions in millimeters (inch equivalents as shown).
Subject to technical modifications without notice. © 2004



CLIP top and CLIP hinges

INSERTA tool-free assembly

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



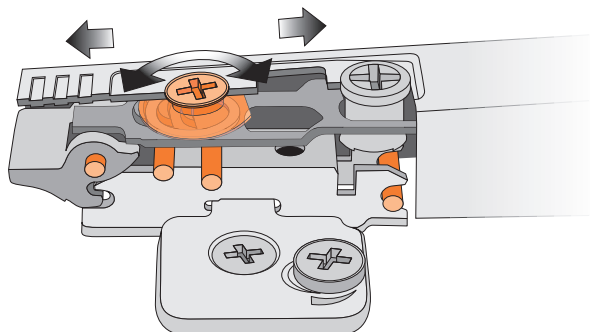
Time proven CLIP technology

Since 1985, the CLIP hinge has been an industry leader in easy, tool-free attachment of door to cabinet.



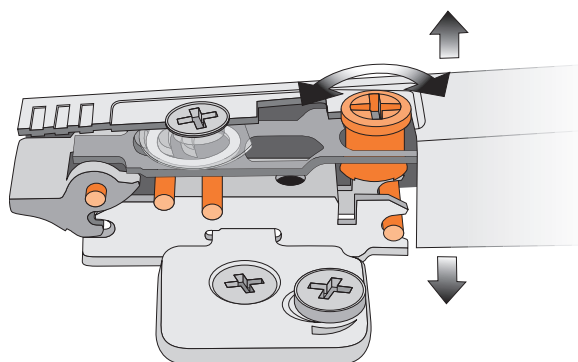
Spiral-Tech depth adjustment

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



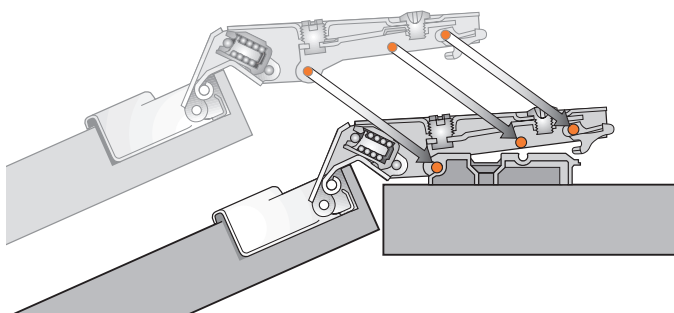
Side adjustment

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



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.

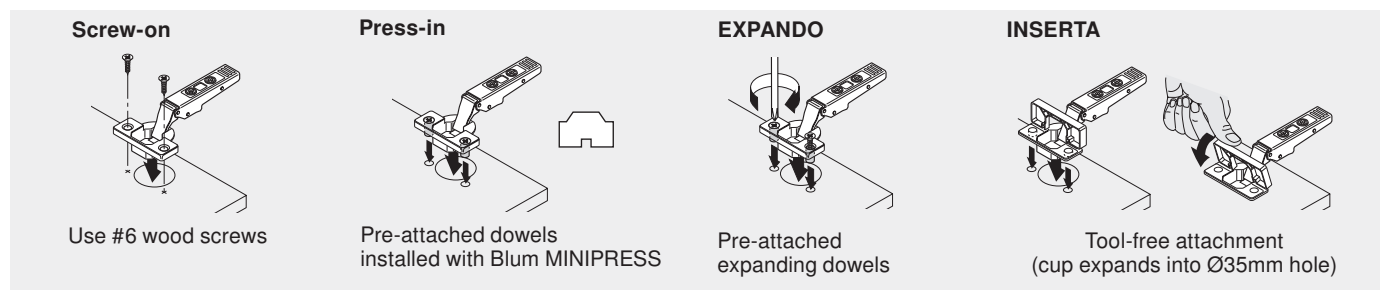


Wide variety of mounting plates

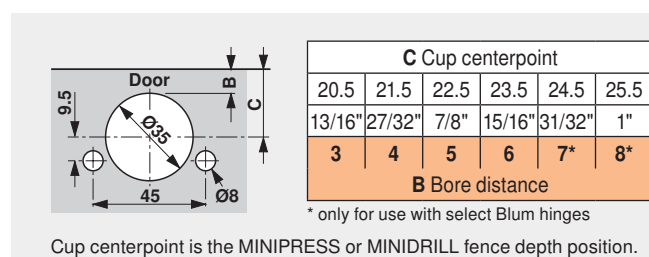
Blum has mounting plates for every application, from wing plates with pre-attached screws or dowels, to Cam height adjustable face frame adapters, to sleek in-line mounting plates.



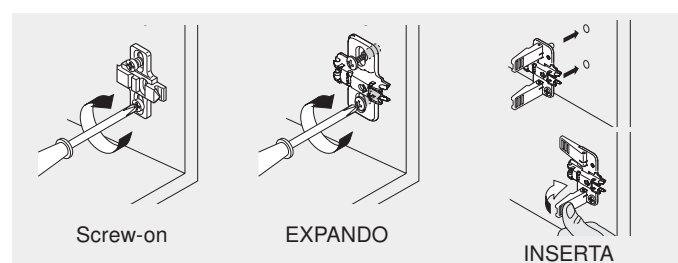
Hinge-to-door attachment



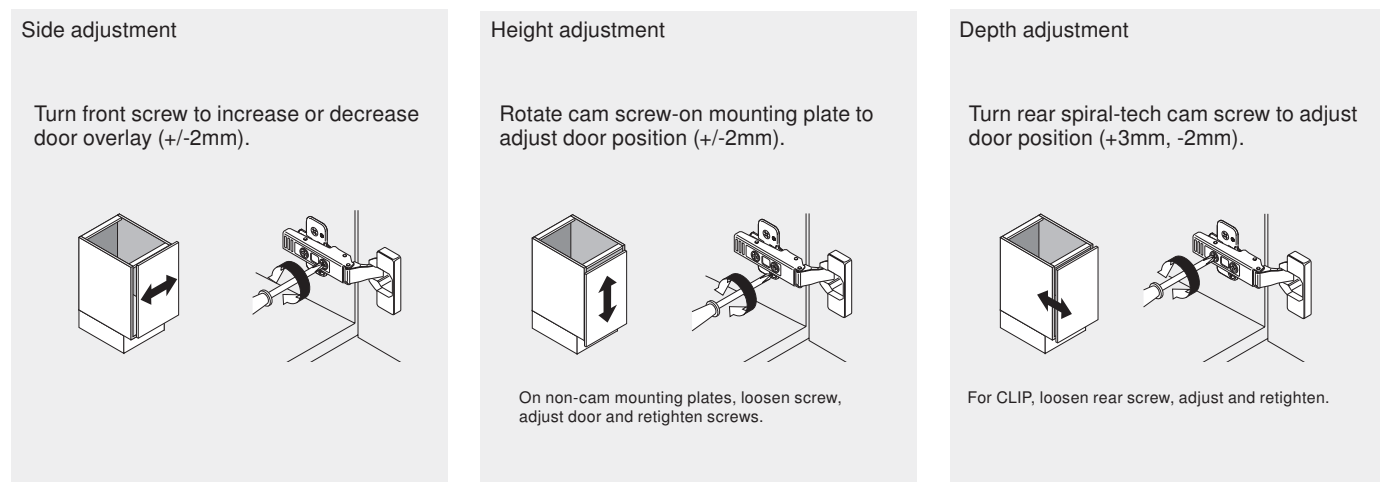
Hinge cup centerpoint



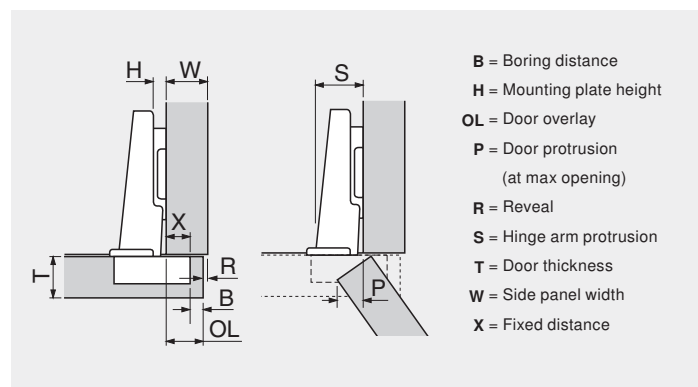
Mounting plate-to-cabinet



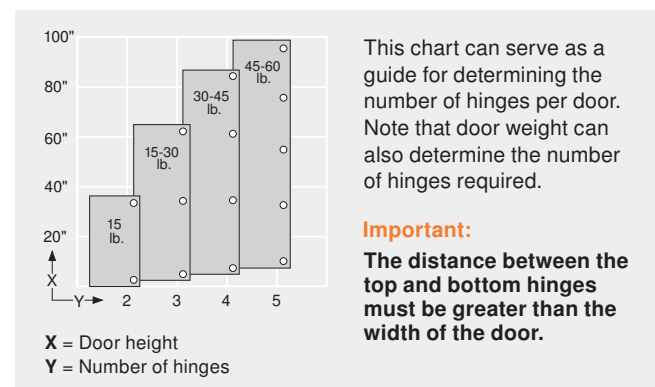
Three-dimensional adjustment



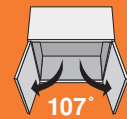
Hinge dimension abbreviations



Hinges per door



CLIP top 107° hinges



CLIP top/CLIP



Features

- 107° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated
- Available with INSERTA tool-free attachment
- 86° angle restriction clips available (page 28)

Cover caps

page 28

Mounting plates

pages 45-49

BLUMOTION for doors

page 73

Minimum Reveal

Minimum reveal table

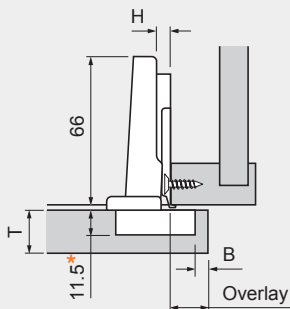
0.6	1.0	1.3	1.7	3
0.6	1.0	1.3	1.6	4
0.6	1.0	1.2	1.5	5
0.6	1.0	1.2	1.4	6
16	18	19	20	B
T Door thickness				Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

For door thickness greater than 20mm trial application recommended or use Thick door hinge (page 16).

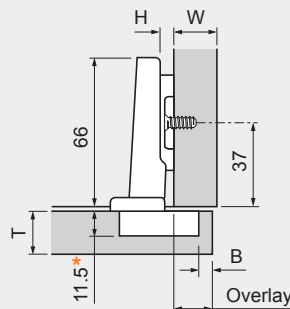
Frame cabinet applications

Overlay door



Panel cabinet applications

Overlay door



Straight-arm hinges

	Self close	Free swing
Screw-on	75T1550	74T1550
Press-in	75T1580	74T1580
INSERTA	75T1590	74T1590

Overlay table

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
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

11 fixed distance

Note: 4.5 plate only available for face frame, 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close
Screw-on	75T1650
Press-in	75T1680
INSERTA	75T1690

Overlay table

0	4.5	5.5	6.5	7.5	20	31
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

1.5 fixed distance

Reveal table

0	7	5	3	1	16	20	31
	10	8	6	4	19		
	13	11	9	7	22		
H	3	4	5	6	W	P	S
Plate	B Bore distance				Panel	Clearances	

Full-cranked hinges (18mm)

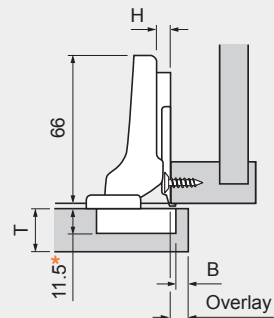
	Self close
Screw-on	75T1750
Press-in	75T1780
INSERTA	75T1790

Reveal table

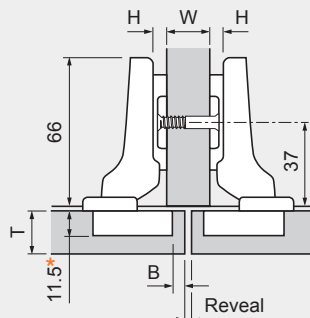
0	4	3	2	1	29	40
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

- 7 fixed distance

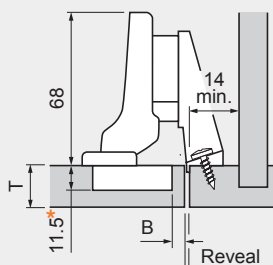
Partial overlay door



Twin overlay doors

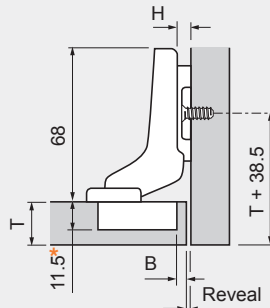


Inset door



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

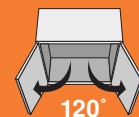
Inset door



* For INSERTA use a cup depth of 12



CLIP top 120° hinges



CLIP top/CLIP



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

Minimum Reveal

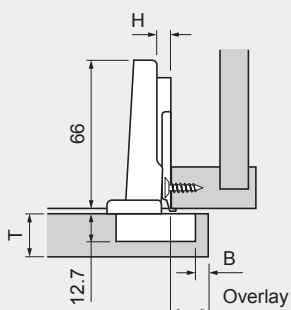
Minimum reveal table					
1.2	1.7	2.0	2.4	3.3	3
1.2	1.7	2.0	2.3	3.1	4
1.1	1.6	1.9	2.2	3.0	5
1.1	1.6	1.9	2.2	2.9	6
16	18	19	20	22	B
T Door thickness					Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

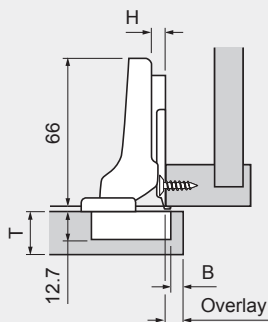
For door thickness greater than 22mm trial application recommended or use Thick door hinge (page 16).

Frame cabinet applications

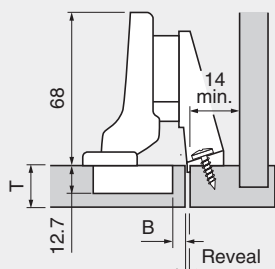
Overlay door



Partial overlay door



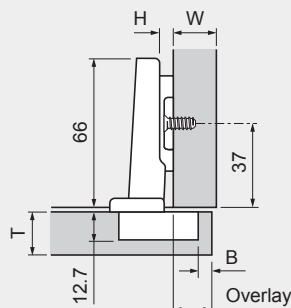
Inset door



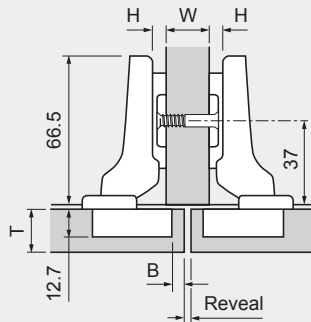
Note: For this application use a half-cranked hinge and mounting plate 175H5030.21

Panel cabinet applications

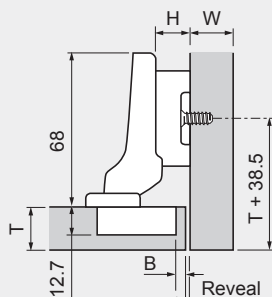
Overlay door



Twin overlay doors



Inset door



See back cover fold out for more specifications →

Straight-arm hinges

	Self close	Free swing
Screw-on	71T5550	70T5550
Press-in	71T5580	70T5580
Expando	71T558E	-
INSERTA	71T5590	70T5590

Overlay table							
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	
H	3	4	5	6	P	S	
Plate	B Bore distance				Clearance		

11 fixed distance

Note:
4.5 plate only available for face frame,
9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close	Free swing
Screw-on	71T5650	70T5650
Press-in	71T5680	70T5680
INSERTA	71T5690	70T5690

Overlay table							
0	4.5	5.5	6.5	7.5	21.5	30	
H	3	4	5	6	P	S	
Plate	B Bore distance				Clearances		

1.5 fixed distance

Reveal table					
0	7	5	3	1	16
	10	8	6	4	19
	13	11	9	7	22
H	3	4	5	6	W
Plate	B Bore distance				P S Clearances

Half-cranked hinges (9.5mm)

	Self close	Free swing
Screw-on	71T5650	70T5650
Press-in	71T5680	70T5680
INSERTA	71T5690	70T5690

Reveal table					
9	4.5	3.5	2.5	1.5	30.5
H	3	4	5	6	P S
Plate	B Bore distance				Clearances

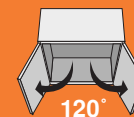
-7.5 fixed distance

For more information on using this section see page 5.

All dimensions in millimeters.

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CLIP top 120°+ hinges



CLIP top/CLIP



Features

- 120° opening angle
- For larger overlays (max. 21mm)
- 3-dimensional adjustment
- All metal hinge, nickel plated
- Available with INSERTA tool-free attachment

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

Minimum Reveal

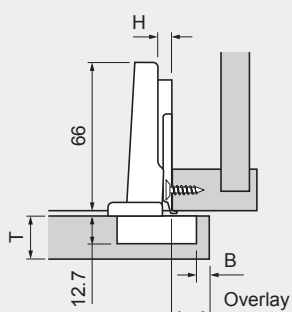
Minimum reveal table						
1.2	1.7	2.0	2.4	3.3	3	
1.2	1.7	2.0	2.3	3.1	4	
1.1	1.6	1.9	2.2	3.0	5	
1.1	1.6	1.9	2.2	2.9	6	
16	18	19	20	22	B	
T Door thickness					Bore	

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

For door thickness greater than 22mm trial application recommended or use Thick door hinge (page 16).

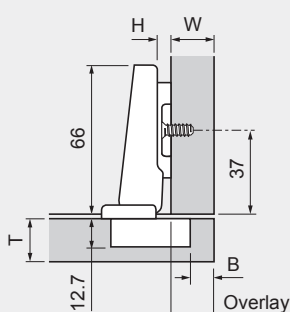
Frame cabinet applications

Overlay door



Panel cabinet applications

Overlay door



Straight-arm hinges

	Self close	Free swing
Screw-on	73T5550	72T5550
Press-in	73T5580	72T5580
Expando	73T558E	-
INSERTA	73T5590	72T5590

Overlay table

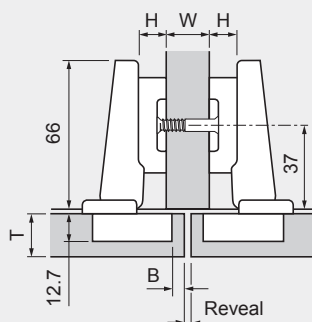
0	16	17	18	19	9.5	19
3	13	14	15	16	12.5	22
4.5	11.5	12.5	13.5	14.5	14	23.5
6	10	11	12	13	15.5	25
9	7	8	9	10	18.5	28
H	3	4	5	6	P	S
Plate	B Bore distance				Clearance	

Note:

4.5 plate only available for face frame, 9 plate only available for panel cabinets

13 fixed distance

Twin overlay doors



Straight-arm hinges

	Self close	Free swing
Screw-on	73T5550	72T5550
Press-in	73T5580	72T5580
Expando	73T558E	-
INSERTA	73T5590	72T5590

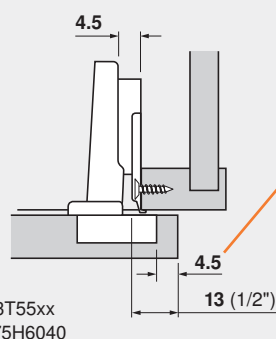
Reveal table

				Twin overlay		
9	2	-	-	16	18.5	28
	5	3	-	19		
	8	6	4	22		
H	3	4	5	6	W	P S
Plate	B Bore distance				Clearances	

4 fixed distance

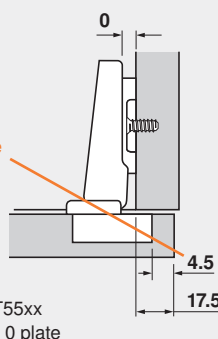
Building both frame and panel cabinets

Frame



Hinge: 73T55xx
Plate: 175H6040

Panel



Hinge: 73T55xx
Plate: any 0 plate

Same 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 4.5mm to achieve:

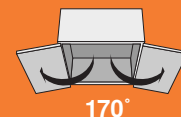
- 13mm (1/2") overlay on frame cabinets and
- 17.5mm overlay on panel cabinets

Use hinge/plate combinations to the left.

Advantages:

- Only one machine setting for boring all doors (4.5mm)
- Same hinge used for both applications (73T55xx)

CLIP top 170° hinges



CLIP top/CLIP



Features

- 170° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated
- Available with INSERTA tool-free attachment
- 130° angle restriction clips are available (see pages 15 and 28)

Cover caps

page 28

Mounting plates

pages 45-49

BLUMOTION for doors

page 73

Minimum Reveal

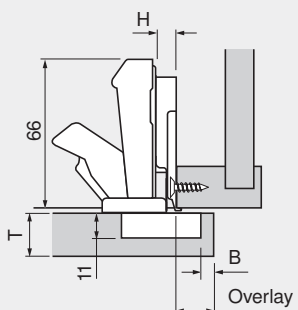
Minimum reveal table						
0	0	0	0	0.2	2.2	3
0	0	0	0	0	1.4	4
0	0	0	0	0	0.9	5
0	0	0	0	0	0	6
0	0	0	0	0	0	7
0	0	0	0	0	0	8
16	18	19	20	22	24	B
T Door thickness						Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

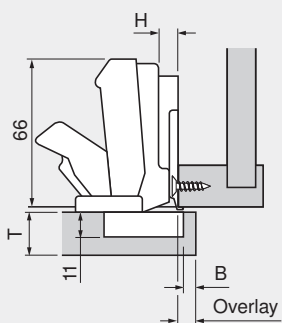
See back cover fold out for more specifications →

Frame cabinet applications

Overlay door



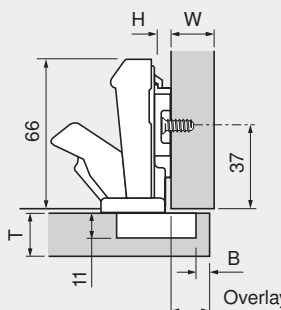
Partial overlay door



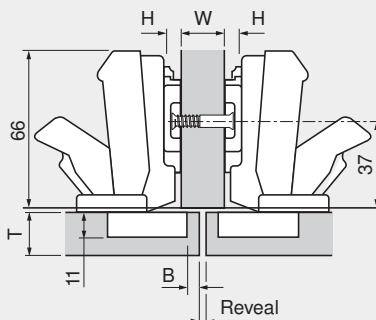
Note: Inset application not recommended for 170 hinges and face frame adapters

Panel cabinet applications

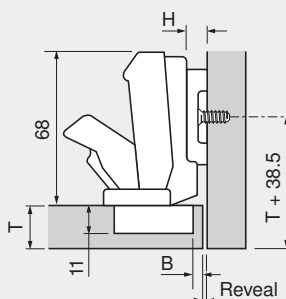
Overlay door



Twin overlay doors



Inset door



Straight-arm hinges

	Self close	Free swing
Screw-on	71T6550	70T6550
Press-in	71T6580	70T6580
INSERTA	71T6540	70T6540

Overlay table									
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	
H	3	4	5	6	7	8	P	S	
Plate	B Bore distance						Clearances		

11 fixed distance

Note: 4.5 plate only available for face frame, 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close	Free swing
Screw-on	71T6650	70T6650
Press-in	71T6680	70T6680
INSERTA	71T6640	-

Overlay table									
0	4.5	5.5	6.5	7.5	8.5	9.5	11	75	
H	3	4	5	6	7	8	P	S	
Plate	B Bore distance						Clearances		

1.5 fixed distance

Reveal table									
0	7	5	3	1	-	-	16	11	75
	10	8	6	4	2	0	19		
	13	11	9	7	5	3	22		
H	3	4	5	6	7	8	W	P	S
Plate	B Bore distance						Panel	Clearances	

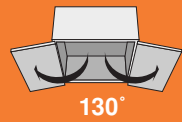
Half-cranked hinges (9.5mm)

	Self close	Free swing
Screw-on	71T6650	70T6650
Press-in	71T6680	70T6680
INSERTA	71T6640	-

Reveal table									
9	4.5	3.5	2.5	1.5	0.5	-	20	84	
H	3	4	5	6	7	8	P	S	
Plate	B Bore distance						Clearances		

- 7.5 fixed distance

CLIP top 170° special applications

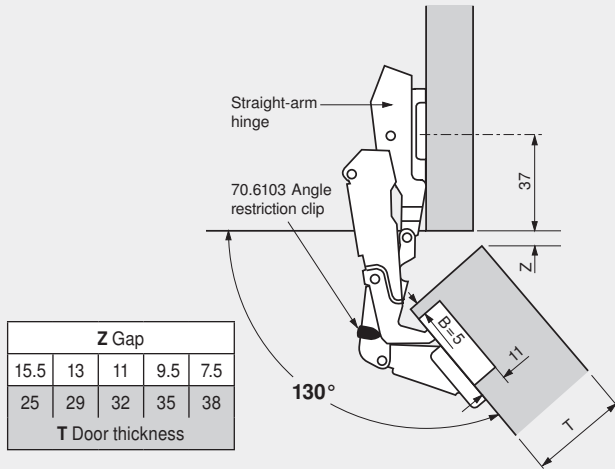


130°

Applications

CLIP top/CLIP

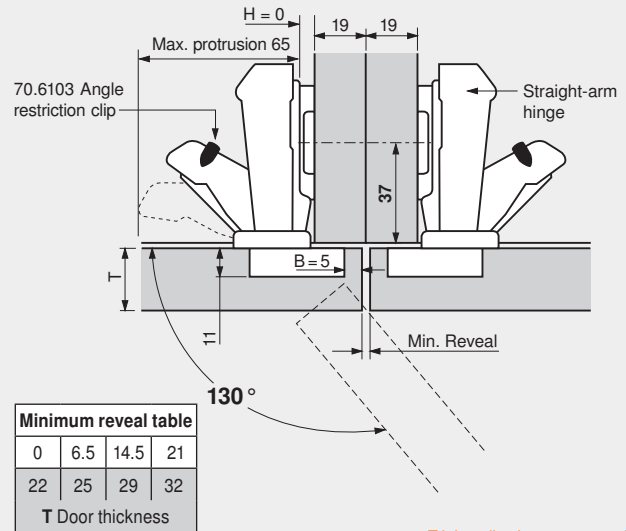
Thick door application



Note: Be aware of door weight, see page 10 for number of hinges per door.

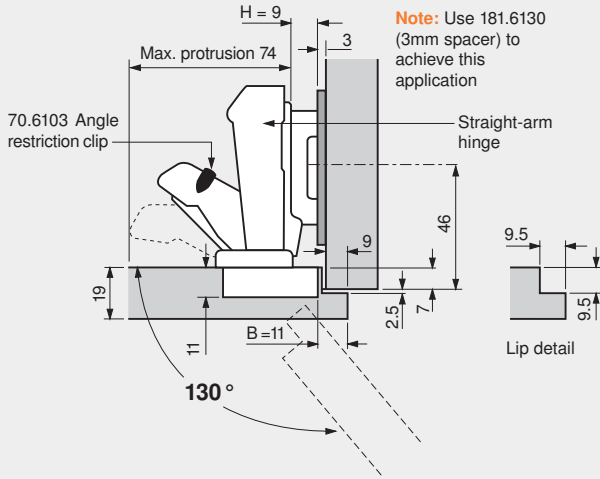
Trial application recommended

Thick door - twin application



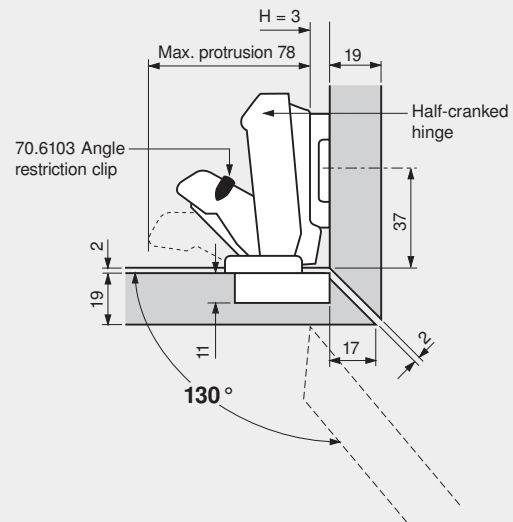
Trial application recommended

Lip door application



Trial application recommended

Mitered corner door application



Trial application recommended

Angle restriction clip



- Reduces opening angle of the CLIP top and CLIP 170° to 130°
- See page 28
- Black nylon

Angle restriction clip

70.6103

3mm spacer



- Mounts under CLIP plates
- Reduces overlay by 3mm
- Brown nylon

3mm spacer

181.6130

CLIP top thick door hinges



CLIP top/CLIP



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

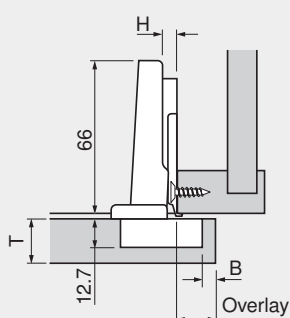
Minimum Reveal

Minimum reveal table									
0.4	0.9	1.3	1.8	2.6	3.1	3.8	3	Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.	
0.4	0.9	1.3	1.8	2.5	2.9	3.5	4		
0.4	0.9	1.3	1.8	2.4	2.8	3.3	5		
0.4	0.9	1.3	1.8	2.3	2.7	3.2	6		
0.4	0.9	1.2	1.7	2.2	2.6	3.1	7		
19	22	24	26	28	29	30	B	Bore	
T Door thickness									

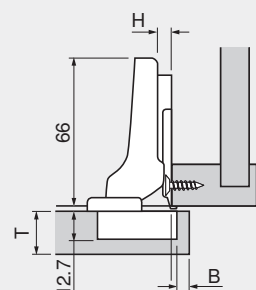
See back cover fold out for more specifications →

Frame cabinet applications

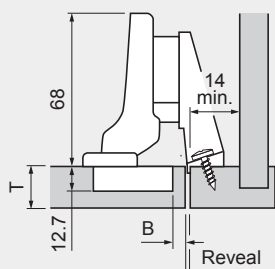
Overlay door



Partial overlay door



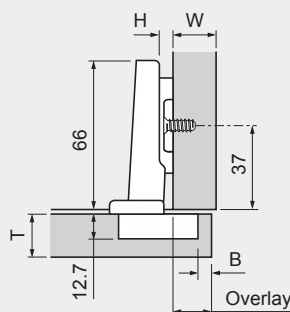
Inset door



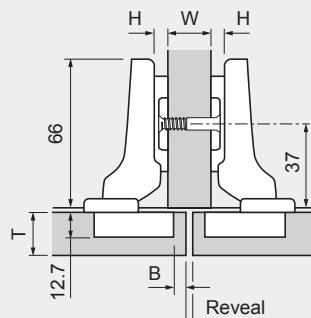
Note: For this application use a half-cranked hinge from above and mounting plate 175H5030.21

Panel cabinet applications

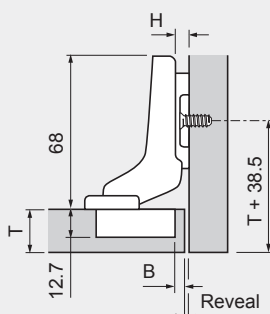
Overlay door



Twin overlay doors



Inset door



Straight-arm hinges

	Self close	Free swing
Screw-on	71T9550	70T9550
Press-in	71T9580	70T9580
INSERTA	71T9590	-

Overlay table									
0	14	15	16	17	18	14.5	22	Clearances	
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		
H	3	4	5	6	7	P	S		
Plate	B Bore distance								

11 fixed distance

Note: 4.5 plate only available for face frame, 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close	Free swing
Screw-on	71T9650	70T9650
Press-in	71T9680	-
INSERTA	71T9690	-

Overlay table						Partial overlay		
0	4.5	5.5	6.5	7.5	8.5	24	31	
H	3	4	5	6	7	P	S	
Plate	B Bore distance						Clearances	

Reveal table							Twin overlay		
0	7	5	3	1	-	16	24	31	
	10	8	6	4	2	19			
	13	11	9	7	5	22			
H	3	4	5	6	7	W	P	S	
Plate	B Bore distance						Panel	Clearances	

Full-cranked hinges (18mm)

	Self close	Free swing
Screw-on	71T9750	70T9750
Press-in	71T9780	-
INSERTA	71T9790	-

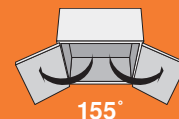
Reveal table								
0	4	3	2	1	-		32.5	40
H	3	4	5	6	7		P	S
Plate	B Bore distance						Clearances	

For more information on using this section see page 5.

All dimensions in millimeters.

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CLIP top zero protrusion hinges



155°

CLIP top/CLIP



Features

- 155° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated
- Available with INSERTA tool-free attachment
- For cabinets with interior drawers

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

Minimum Reveal

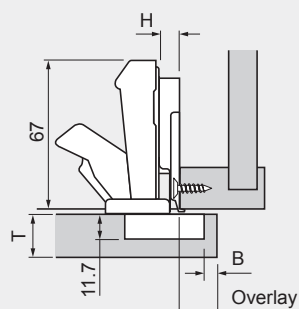
Minimum reveal table						
0	0	0	0	0	0	3
0	0	0	0	0	0	4
0	0	0	0	0	0	5
0	0	0	0	0	0	6
16	18	19	20	22	24	B
T Door thickness						Bore

No minimum reveal required for door thicknesses of up to 24mm

See back cover fold out for more specifications →

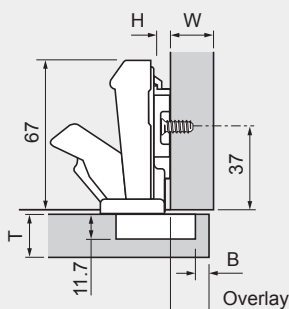
Frame cabinet applications

Overlay door



Panel cabinet applications

Overlay door

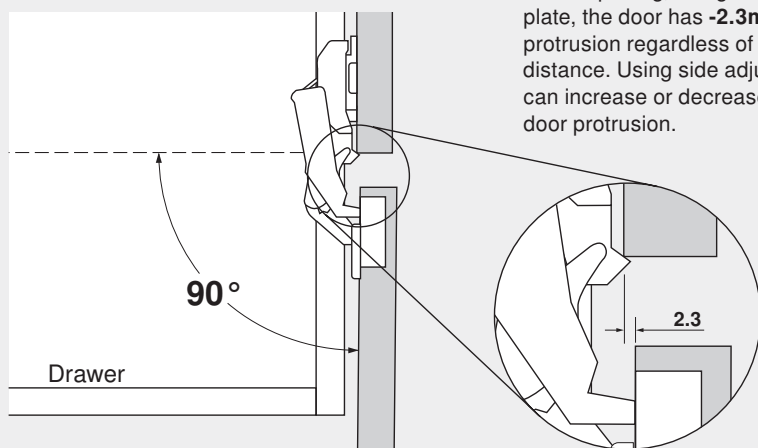


Straight-arm hinges

	Self close
Screw-on	71T7500
Press-in 	71T7530
INSERTA	71T7540

Overlay table						
0	14	15	16	17	-2.3	56
3	11	12	13	14	.7	56
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

Door protrusion

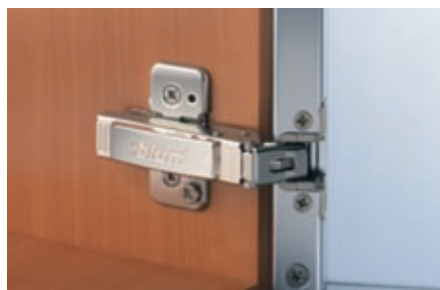


Note: At 90° opening, using a 0mm plate, the door has -2.3mm protrusion regardless of boring distance. Using side adjustment can increase or decrease door protrusion.

CLIP top 120° aluminum door hinges



CLIP top/CLIP



Features

- 120° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated
- Contact Blum for aluminum door suppliers

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

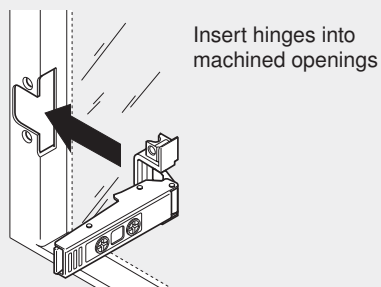
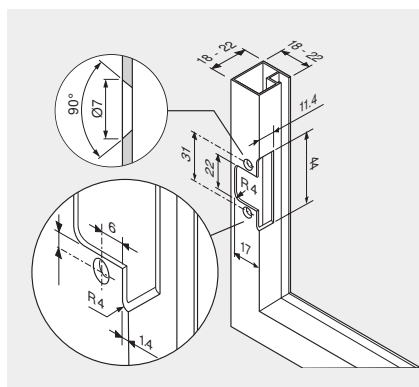
Minimum Reveal

Minimum reveal table					
1.5	1.9	2.4	2.9	3.7	18
1.5	1.8	2.2	2.7	3.3	19
1.4	1.8	2.2	2.6	3.1	20
1.4	1.7	2.1	2.5	3	21
1.2	1.7	2	2.4	2.9	22
18	19	20	21	22	Door Frame Width
T Door thickness					

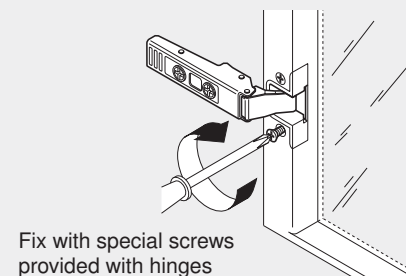
Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

See back cover fold out for more specifications →

Specifications



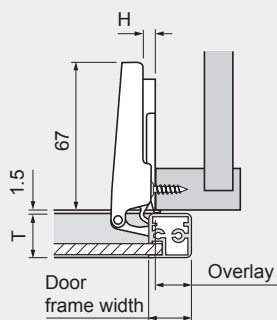
Insert hinges into machined openings



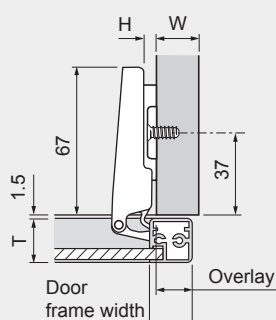
Fix with special screws provided with hinges

Applications

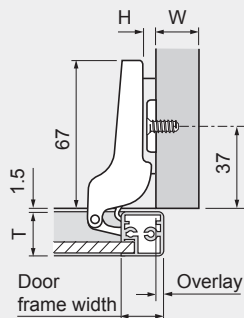
Overlay door - frame cabinets



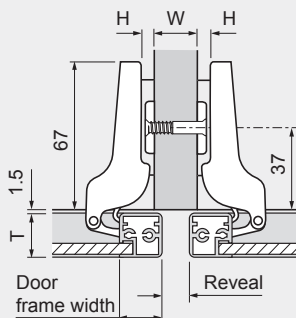
Overlay door - panel cabinets



Partial overlay door - panel cabinets



Twin doors - panel cabinets



Straight-arm hinges

Screw-on Self close
73T550A

Overlay table			
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
H Plate	Fixed Bore distance	P Clearances	S

Note: 4.5 plate only available for face frame, 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

Screw-on Self close
71T560A

Overlay table			
0	3.5	19.5	31
H Plate	Fixed Bore distance	P Clearances	S

Reveal table				
0	9	16	19.5	31
	12	19	19.5	31
H Plate	Fixed Bore distance	W Panel	P Clearances	S

For more information on using this section see page 5.

All dimensions in millimeters. (inch equivalents as shown).

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CLIP top inset blind corner hinges



CLIP top/CLIP



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

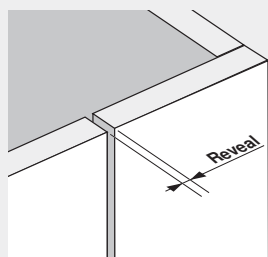
Minimum Reveal

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	0.4	0.4	0.5	0.9	1.3	5
0.1	0.3	0.4	0.5	0.9	1.2	6
0.1	0.3	0.4	0.5	0.9	1.2	7
16	18	19	20	22	24	B
T Door thickness						Bore

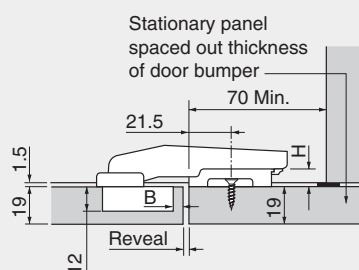
Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

See back cover fold out for more specifications →

Flush door applications



Back of door is flush with stationary panel



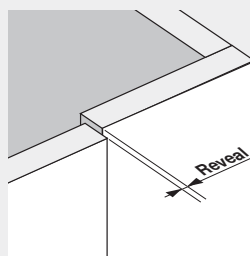
Inset blind corner hinges

	Self close
Screw-on	79T9550
Press-in 	79T9580
INSERTA	79T9590

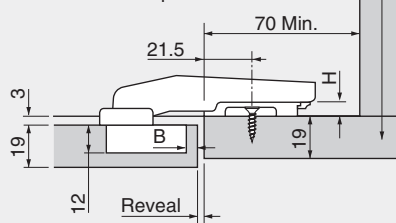
Reveal table

3	5	4	3	2	1	33.5	21
H	3	4	5	6	7	P	S
Plate	B Bore distance					Clearances	

Offset door applications



Stationary panel mounted to cabinet side, top and bottom



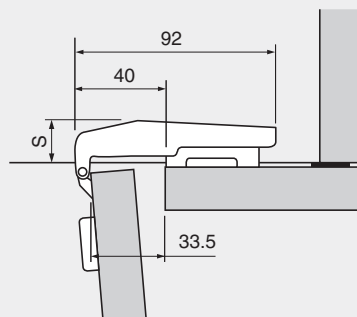
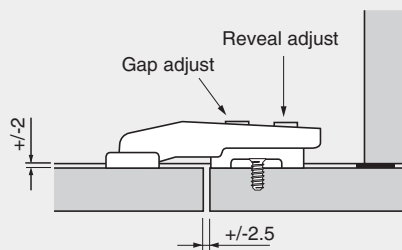
Inset blind corner hinges

	Self close
Screw-on	79T9550
Press-in 	79T9580
INSERTA	79T9590

Reveal table

0	5	4	3	2	1	33.5	18
H	3	4	5	6	7	P	S
Plate	B Bore distance					Clearances	

Adjustments and clearances



CLIP top overlay blind corner hinges



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

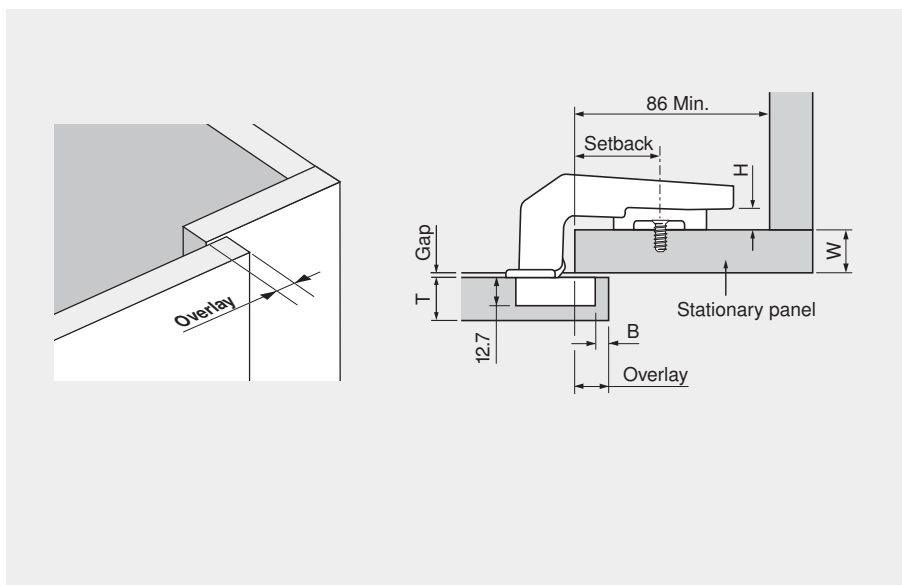
Minimum Reveal

Minimum reveal table							
0.1	0.3	0.4	0.5	0.9	1.3	3	Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.
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	1.2	6	
0.1	0.3	0.4	0.5	0.9	1.2	7	
16	18	19	20	22	24	B	Bore
T Door thickness							

See back cover fold out for more specifications →

CLIP top/CLIP

Overlay application



Overlay blind corner hinges

		Self close
Screw-on		79T9950.37
Press-in		79T9980.37
INSERTA		79T9990.37

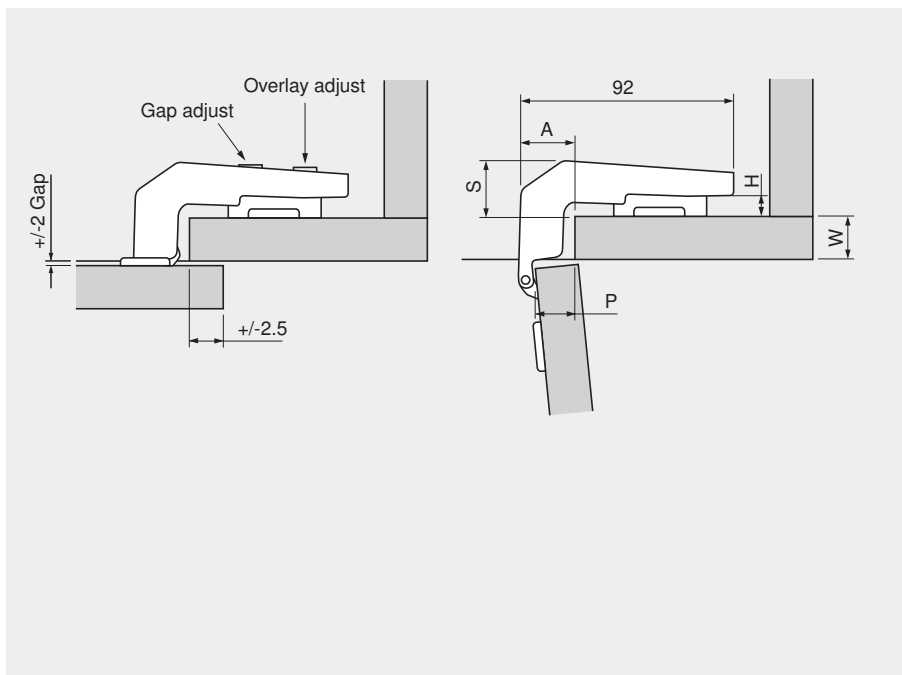
Door Overlay

The door overlay varies depending on the setback position of the mounting plate. Use the table below to select the desired overlay and cross-reference to the plate setback and bore distance.

Overlay table								
27	2	3	4	5	6	7	32	
32	7	8	9	10	11	12	27	
37	12	13	14	15	16	17	22	
Plate Setback	3	4	5	6	7	B Bore distance		
							P	A
							Clearances	

9 fixed distance

Adjustments and clearances



Door Gap

The door gap varies depending on the thickness of the stationary panel and the height of the mounting plate. Using the table below:

1. Select a panel thickness column.
2. Choose a door gap.
3. Cross-reference the plate height.

Gap table				
0	7	4	1	21
3	4	1	-	24
6	1	-	-	27
H	16	19	22	S
Plate	W panel thk.			Clearances

Note: Door gap can be adjusted +/-.

CLIP top diagonal 45° hinges



CLIP top/CLIP



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

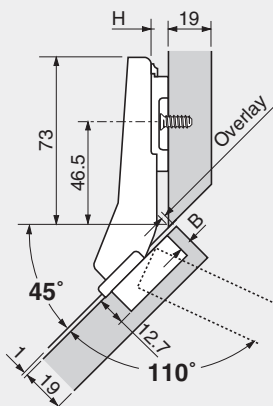
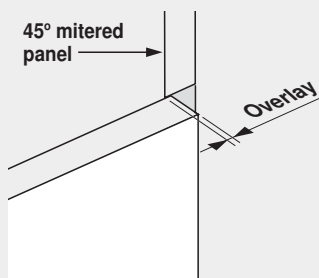
page 28

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page 73

Applications

Overlay application

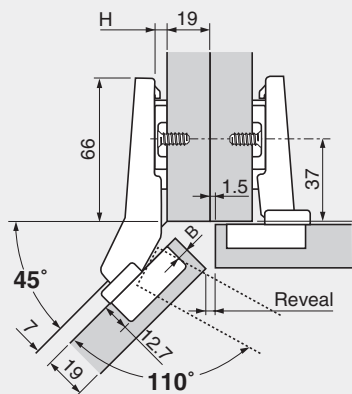
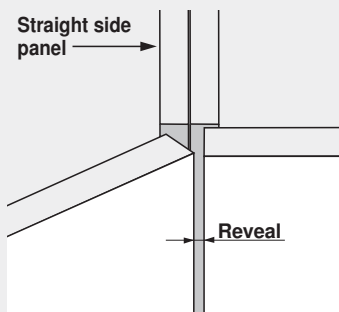


Diagonal 45 hinges

	Self close
Screw-on	79T5550
Press-in 	79T5580
INSERTA	79T5590

Overlay table					
0	1	2	3	4	
H	3	4	5	6	
Plate	B Bore distance				

Inside corner



Diagonal 45 hinges

	Self close
Screw-on	79T5550
Press-in 	79T5580
INSERTA	79T5590

Reveal table					
0	6	5	4	3	
H	3	4	5	6	
Plate	B Bore distance				

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

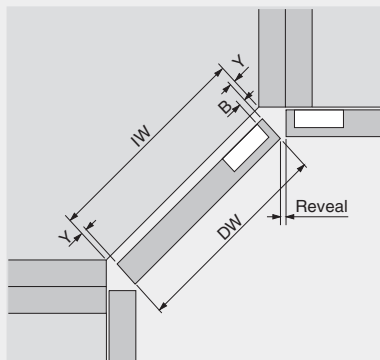
Calculating door width (DW)

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

Step 2: Use the following formula to find the door width: $DW = IW - (Y \times 2)$

Example:

Int. width (IW) = 400mm
Side gap (Y) = 4.5mm
 $391 = 400 - (4.5 \times 2)$



Y Side Gap				
5.5	4.5	3.5	2.5	
3	4	5	6	
B Bore distance				

Note: Calculations based on 19mm (3/4") door thickness.

CLIP 100° hinges



CLIP top/CLIP



Features

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

Cover caps
Mounting plates
BLUMOTION for doors

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pages 45-49

page 73

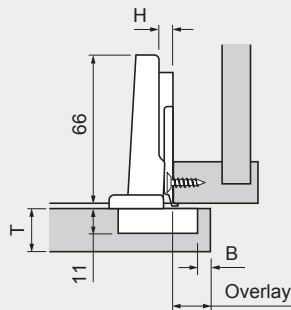
Minimum Reveal

Minimum reveal table							
0.5	0.9	1.1	1.4	2.3	3.6	3	Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.
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	.9	1.1	1.7	2.8	6	
16	18	19	20	22	24	B	Bore
T Door thickness							

See back cover fold out for more specifications →

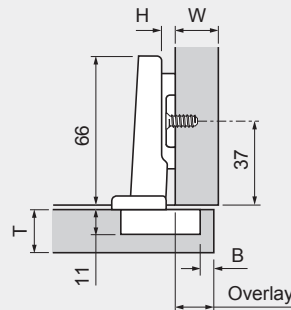
Frame cabinet applications

Overlay door



Panel cabinet applications

Overlay door



Straight-arm hinges

	Self close	Free swing
Screw-on	71M2550	70M2550
Press-in 	71M2580	70M2580
INSERTA	71M2590	70M2590

Overlay table							
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	
H	3	4	5	6	P	S	
Plate	B Bore distance				Clearances		

11 fixed distance

Note: 4.5 plate only available for face frame,
9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close
Screw-on	71M2650
Press-in 	71M2680
INSERTA	71M2590

Overlay table							
0	4.5	5.5	6.5	7.5	18.5	30	
H	3	4	5	6	P	S	
Plate	B Bore distance				Clearances		

1.5 fixed distance

Reveal table							
0	7	5	3	1	16		
	10	8	6	4	19	18.5	30
	13	11	9	7	22		
H	3	4	5	6	W	P	S
Plate	B Bore distance				Panel	Clearances	

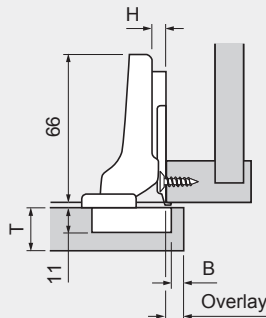
Full-cranked hinges (18mm)

	Self close
Screw-on	71M2750
Press-in 	71M2780
INSERTA	71M2790

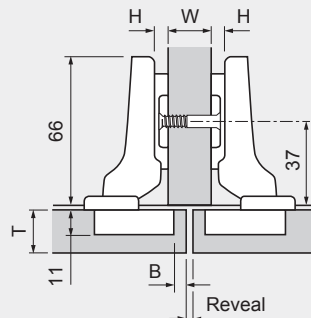
Reveal table							
0	4	3	2	1	27	38	
H	3	4	5	6	P	S	
Plate	B Bore distance				Clearances		

- 7 fixed distance

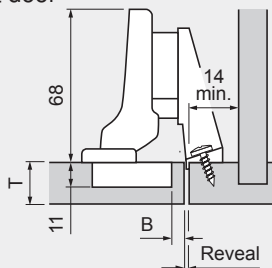
Partial overlay door



Twin overlay doors

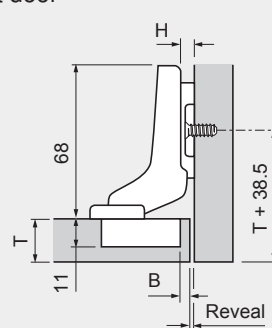


Inset door



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

Inset door



For more information on using this section see page 5.

All dimensions in millimeters.

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CLIP 107° hinges



CLIP top/CLIP



Features

- 107° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated
- 86° angle restriction clips available (page 28)

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

page 73

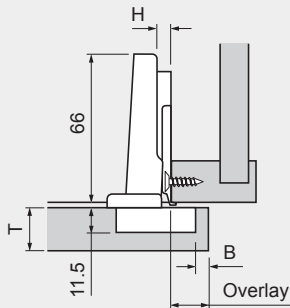
Minimum Reveal

Minimum reveal table						
0.6	1.0	1.3	1.7	2.5	4.1	3
0.6	1.0	1.3	1.6	2.4	3.7	4
0.6	1.0	1.2	1.5	2.2	3.5	5
0.6	1.0	1.2	1.4	2.0	3.3	6
16	18	19	20	22	24	B
T Door thickness						Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

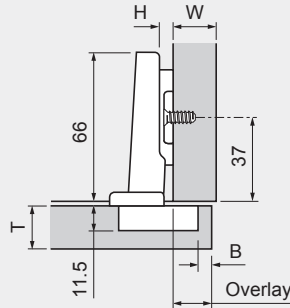
Frame cabinet applications

Overlay door



Panel cabinet applications

Overlay door



See back cover fold out for more specifications →

Straight-arm hinges

	Self close
Screw-on	75M1550
Press-in	75M1580

Overlay table						
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
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

11 fixed distance

Note: 4.5 plate only available for face frame, 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close
Screw-on	75M1650
Press-in	75M1680

Overlay table						
0	4.5	5.5	6.5	7.5	20	31
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

1.5 fixed distance

Reveal table						
0	7	5	3	1	16	
	10	8	6	4	19	20
	13	11	9	7	22	31
H	3	4	5	6	W	P S
Plate	B Bore distance				Panel	Clearances

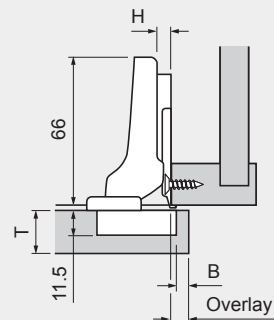
Half-cranked hinges (9.5mm)

	Self close
Screw-on	75M1650
Press-in	75M1680

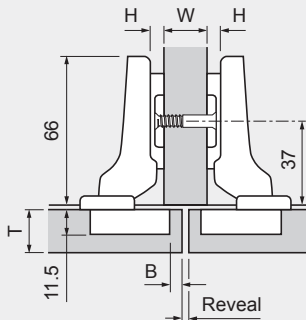
Reveal table						
9	4.5	3.5	2.5	1.5	29	40
H	3	4	5	6	P	S
Plate	B Bore distance				Clearances	

- 7.5 fixed distance

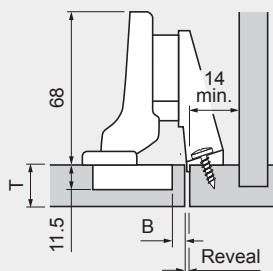
Partial overlay door



Twin overlay doors

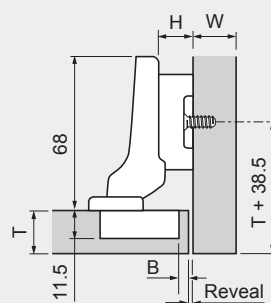


Inset door

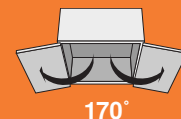


Note: For this application use a half-cranked hinge from above and mounting plate 175H5030.21

Inset door

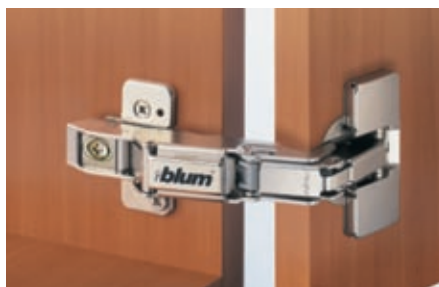


CLIP 170 hinges



170°

CLIP top/CLIP



Features

- 170° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated
- Available with INSERTA tool-free attachment
- 130° angle restriction clips are available (see page 28)

Cover caps

page 28

Mounting plates

pages 45-49

BLUMOTION for doors

page 73

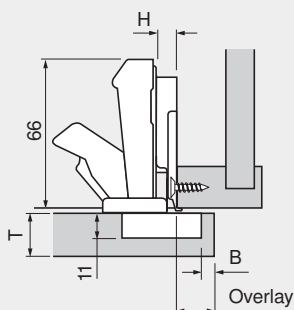
Minimum Reveal

Minimum reveal table						
0	0	0	0	0.2	2.2	3
0	0	0	0	0	1.4	4
0	0	0	0	0	0.9	5
0	0	0	0	0	0	6
0	0	0	0	0	0	7
0	0	0	0	0	0	8
16	18	19	20	22	24	B
T Door thickness						Bore

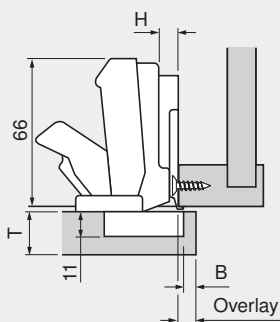
Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

Frame cabinet applications

Overlay door



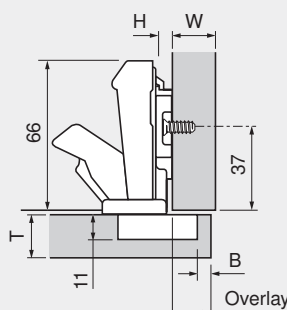
Partial overlay door



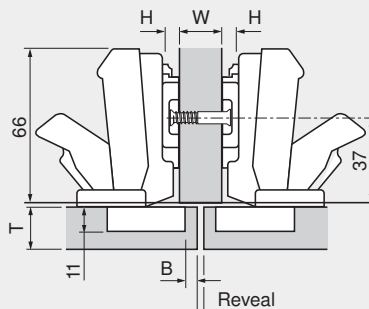
Note: Inset application not recommended for 170 hinges and face frame adapters

Panel cabinet applications

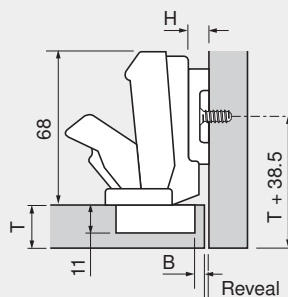
Overlay door



Twin overlay doors



Inset door



See back cover fold out for more specifications →

Straight-arm hinges

	Self close
Screw-on	71.6550
Press-in	71.6580
INSERTA	71.6540.01

Overlay table									
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	
H	3	4	5	6	7	8	P	S	
Plate	B Bore distance						Clearances		

11 fixed distance

Note: 4.5 plate only available for face frame, 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close
Screw-on	71.6650
Press-in	71.6680

Overlay table									
0	4.5	5.5	6.5	7.5	8.5	9.5	11	75	
H	3	4	5	6	7	8	P	S	
Plate	B Bore distance						Clearances		

1.5 fixed distance

Reveal table									
0	7	5	3	1	-	-	16	11	75
	10	8	6	4	2	0	19		
	13	11	9	7	5	3	22		
H	3	4	5	6	7	8	W	P	S
Plate	B Bore distance						Panel	Clearances	

Half-cranked hinges (9.5mm)

	Self close
Screw-on	71.6650
Press-in	71.6680

Reveal table									
9	4.5	3.5	2.5	1.5	.5	-	20	84	
H	3	4	5	6	7	8	P	S	
Plate	B Bore distance						Clearances		

- 7.5 fixed distance

For more information on using this section see page 5.

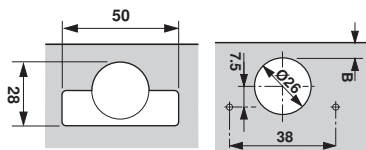
All dimensions in millimeters.

Subject to technical modifications without notice. © 2004



Features

- 94° opening angle
- Side adjustment of +0.5 to -3.5mm
- Hinge for small doors or doors with small frames



Minimum Reveal

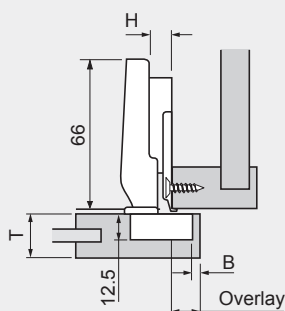
Minimum reveal table							
1.1	2.2	3.0	3.8	5.5	7.3	9.1	3
1.1	2.0	2.7	3.5	5.0	6.8	8.6	4
1.1	1.8	2.4	3.0	4.6	6.3	8.0	5
16	18	19	20	22	24	26	B
T Door thickness							Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

See back cover fold out for more specifications →

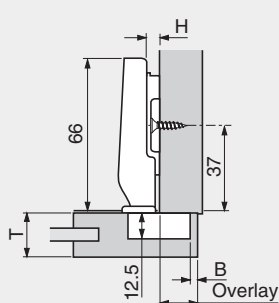
Frame cabinet applications

Overlay door

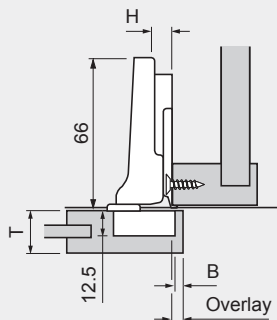


Panel cabinet applications

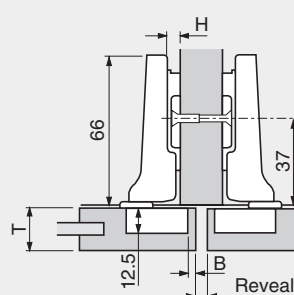
Overlay door



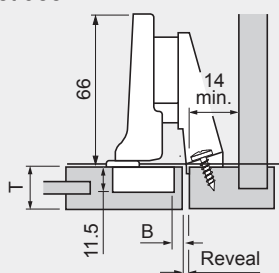
Partial overlay door



Twin overlay doors

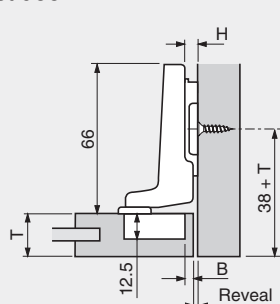


Inset door



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

Inset door



Straight-arm hinges

	Self close
Screw-on	71M0550

Overlay table					
0	13	14	15	6	18
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
H	3	4	5	P	S
Plate	B	Bore distance		Clearances	

10 fixed distance

Note: 4.5 plate only available for face frame,
9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

	Self close
Screw-on	71M0650

Overlay table					
0	3.5	4.5	5.5	15.5	25
H	3	4	5	P	S
Plate	B	Bore distance		Clearances	

.5 fixed distance

Reveal table					
0	9	7	5	16	
	12	10	8	19	
	15	13	11	22	
H	3	4	5	W	P S
Plate	B	Bore distance		Panel	Clearances

Full-cranked hinges (18mm)

	Self close
Screw-on	71M0750

Reveal table					
0	5	4	3	24	33
H	3	4	5	P	S
Plate	B	Bore distance		Clearances	

-8 fixed distance



Features

- 94° opening angle
- 3-dimensional adjustment
- For glass thickness of 4.5 to 7mm
- Side adjustment of +.5 to -3.5mm
- Fixing screws included

Mounting plates
BLUMOTION for doors

pages 45-49

page 73

Minimum Reveal

Minimum reveal table

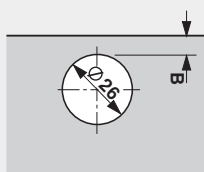
0	0	0	0	5.5
0	0	0	0	6
0	0	0	0	6.5
0	0	0	0	7
4.5	5	6	7	B
T Door thickness				Bore

Cross reference the door thickness and bore distance to assure that doors won't bind when opened.

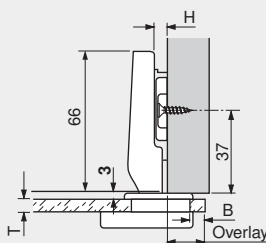
See back cover fold out for more specifications →

Panel cabinet applications

Boring pattern



Overlay door



Straight-arm hinges

Self close

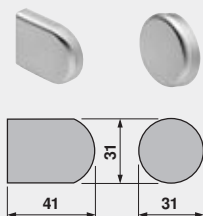
Screw-on 75M4100

Overlay table

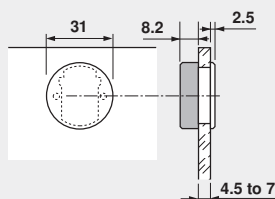
0	15.5	16	16.5	17	6	19
3	12.5	13	13.5	14	9	22
6	9.5	10	10.5	11	12	25
9	6.5	7	7.5	8	15	28
H	5.5	6	6.5	7	P	S
Plate	B Bore distance				Clearances	

10 fixed distance

Cover caps for door front (required)



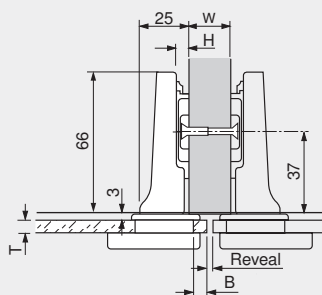
Both available in:
G = Gold polished
S = Black
CR = Chrome polished



D - shape 84.4120

Round 84.4140

Twin overlay doors



Half-cranked hinges (9.5mm)

Self close

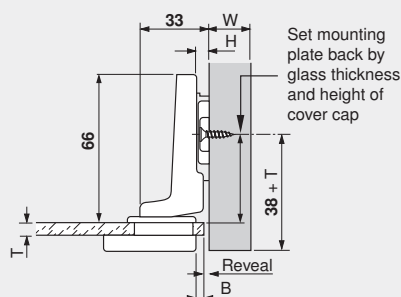
Screw-on 75M4200

Reveal table

	4	3	1	.5	16		
0	7	6	5	4	19	15	25
	10	9	8	7	22		
H	5.5	6	6.5	7	W	P	S
Plate	B Bore distance				Panel	Clearances	

.5 fixed distance

Inset door



Full-cranked hinges (18mm)

Self close

Screw-on 75M4300

Reveal table

0	2.5	2	1.5	1	23.5	33
H	5.5	6	6.5	7	P	S
Plate	B Bore distance				Clearances	

- 8 fixed distance

CLIP bi-fold hinges



CLIP top/CLIP



Features

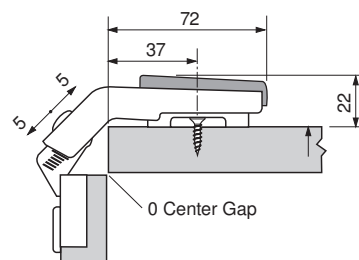
- 60° opening angle
- 3-dimensional adjustment
- All metal hinge, nickel plated

Cover caps
Mounting plates
BLUMOTION for doors

page 28

pages 45-49

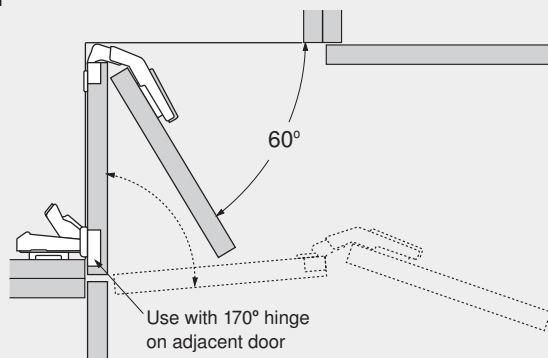
page 73



See back cover fold out for more specifications →

Application

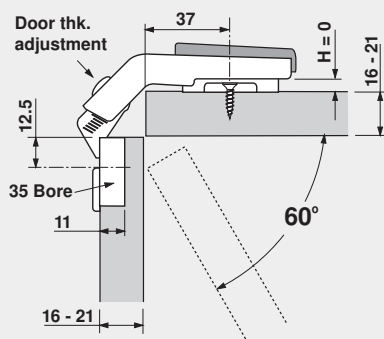
Inside corner



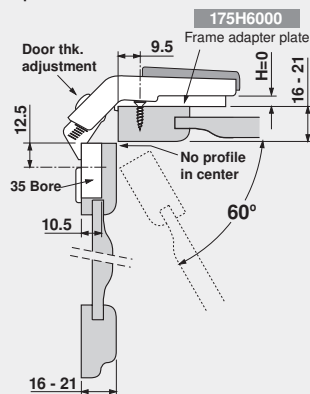
Bi-fold hinges

	Self close
Screw-on	79M8500.10
Press-in 	79M8530.10

With flat panel doors



With profile doors



Calculating door sizes

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

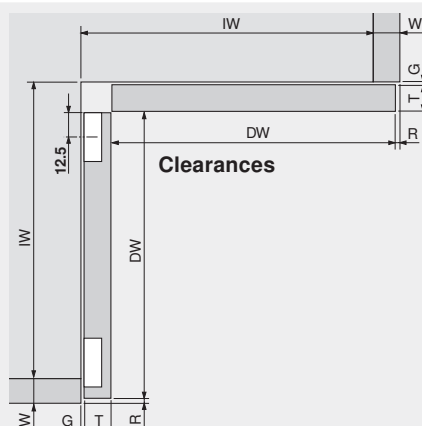
Step 1: Add the interior width (IW) to the side panel width (W).

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

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

Formula: $DW = (IW + W) - T - R - G$

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



Cover caps and angle restriction clips

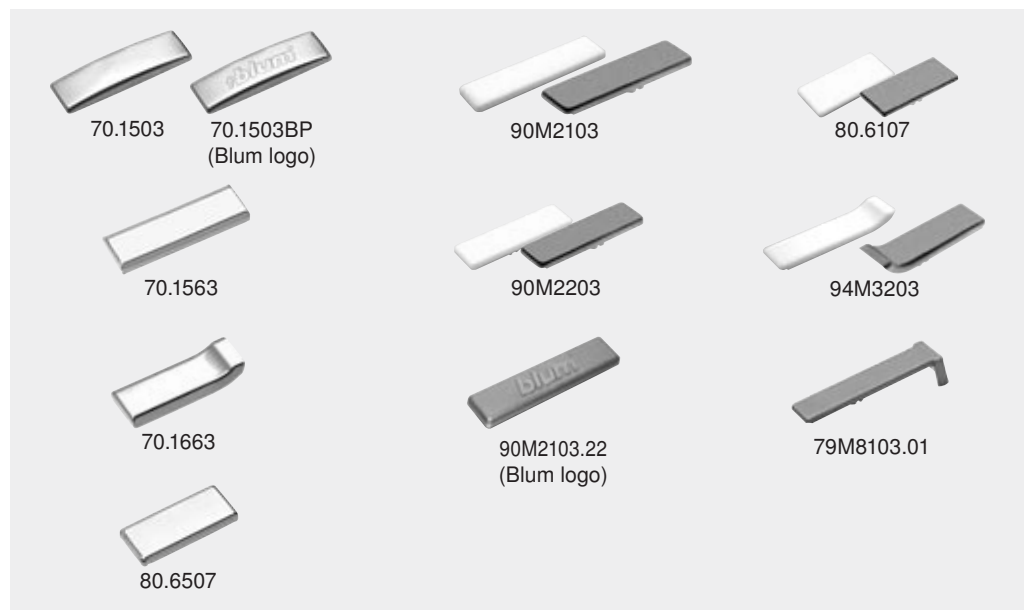
a

Nickel plated steel

Nylon (back or white)

CLIP top hinge cup cover cap

CLIP top/CLIP



- Elegant design to cover screws
- Clip-on attachment/removal
- Nickel plated steel

For CLIP top hinges only

Suitable for screw-on, press-in and EXPANDO hinge cups for CLIP top 107°, 120°, thick door and blind corner hinges.

Hinge cup
cover cap

70T1504

CLIP top / CLIP cover caps

100°, 107°, 120°, and 120+ and thick door hinges

170° and Zero protrusion hinges

Diagonal 45° and blind corner hinges

Bi-fold hinges

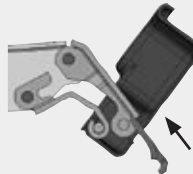
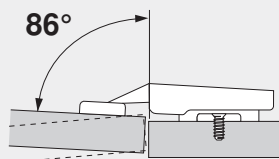
Angled, mini and glass door hinges

	Nylon	Steel
Straight-arm	90M2103	70.1503
Cranked-arm	94M3203	70.1663
	80.6107	80.6507
	90M2103	70.1503
Black only	79M8103.01	
Straight-arm	90M2203	70.1563
Cranked-arm	90M2203	70.1563

Note: Custom logo available in nylon or nickel plated steel cover caps. Consult your Blum representative for minimum quantities and lead times on custom logos.

Angle restriction clips

86° restriction clip for the CLIP top 107

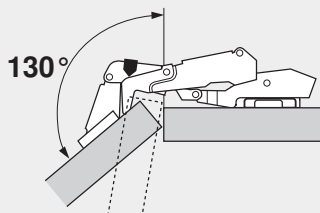


- Reduces opening angle of the CLIP top or CLIP 107° to 86°
- Installs quickly and easily without tools
- Non-removable

86° Angle restriction clip

74.1103

130° restriction clip for the CLIP top 170



- Reduces opening angle of the CLIP top or CLIP 170° to 130°
- Required for special applications of the 170° hinge
- Installs quickly and easily without tools

130° Angle restriction clip

70.6103



CLIP top angled hinges

CLIP top angled hinge program

Angled



CLIP top hinges from +45° to -45°

Angled hinges provide a tremendous array of possibilities for the cabinet design professional. 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 twelve 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.

On pages **33-34**, configurations of common American cabinet widths are shown with the transition of cabinet depths that create the need for angled hinges. Because the self-closing action starts at 5° before final closed position and a built-in closing reserve of 3°, the Blum system offers a solution for all angled cabinet applications.

Step 1. On page **35** cross-reference the corner style that is needed for your particular angled 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 **36** through **42** are in numerical order and show all the details.

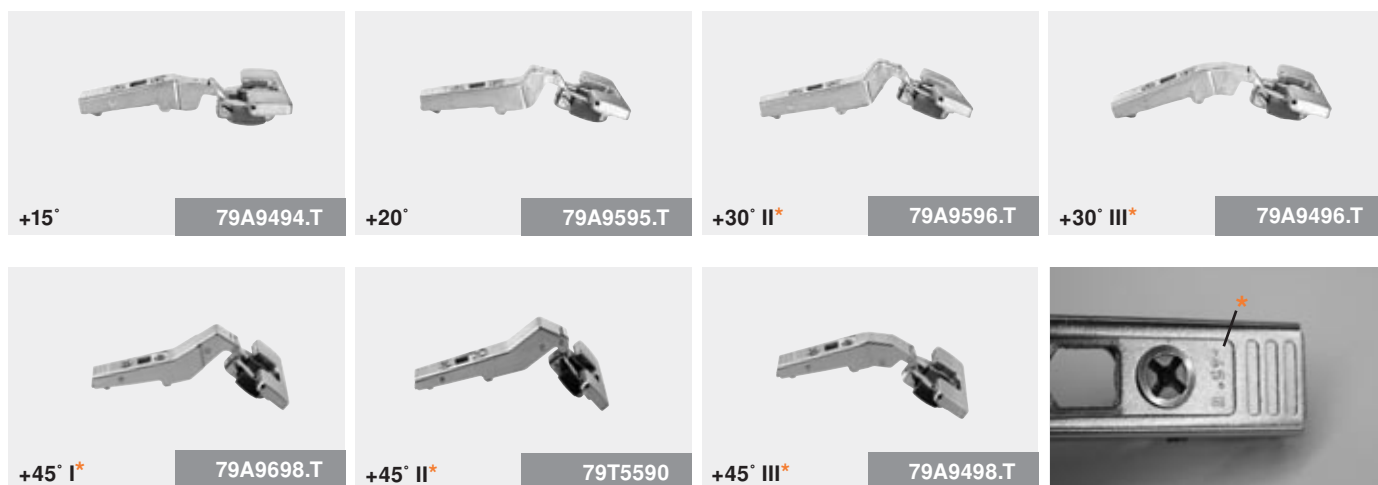
Cover caps
Mounting plates
BLUMOTION for doors

page 28

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Positive angled CLIP top hinges

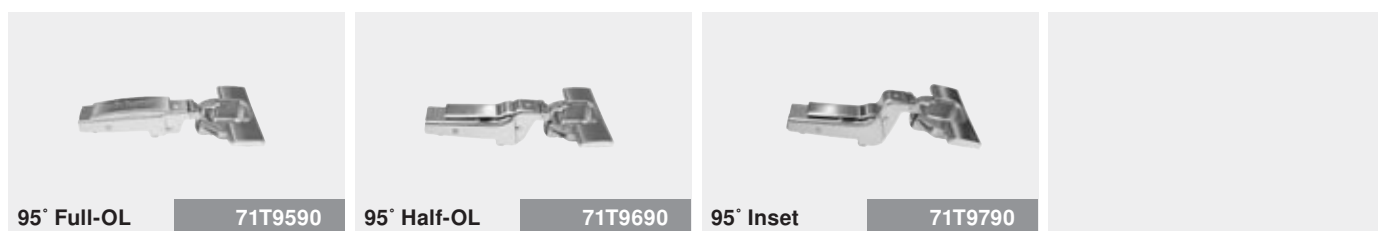


* These angled hinges are marked with a I, II, or III on the hinge arm for differentiation (see photo).

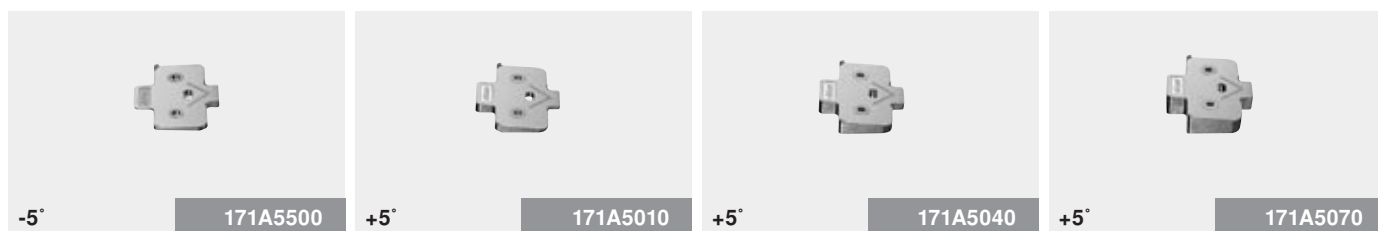
Negative angled CLIP top hinges



Standard CLIP top thick door hinges used in angled applications



Angled spacer wedges for positive and negative angled hinges

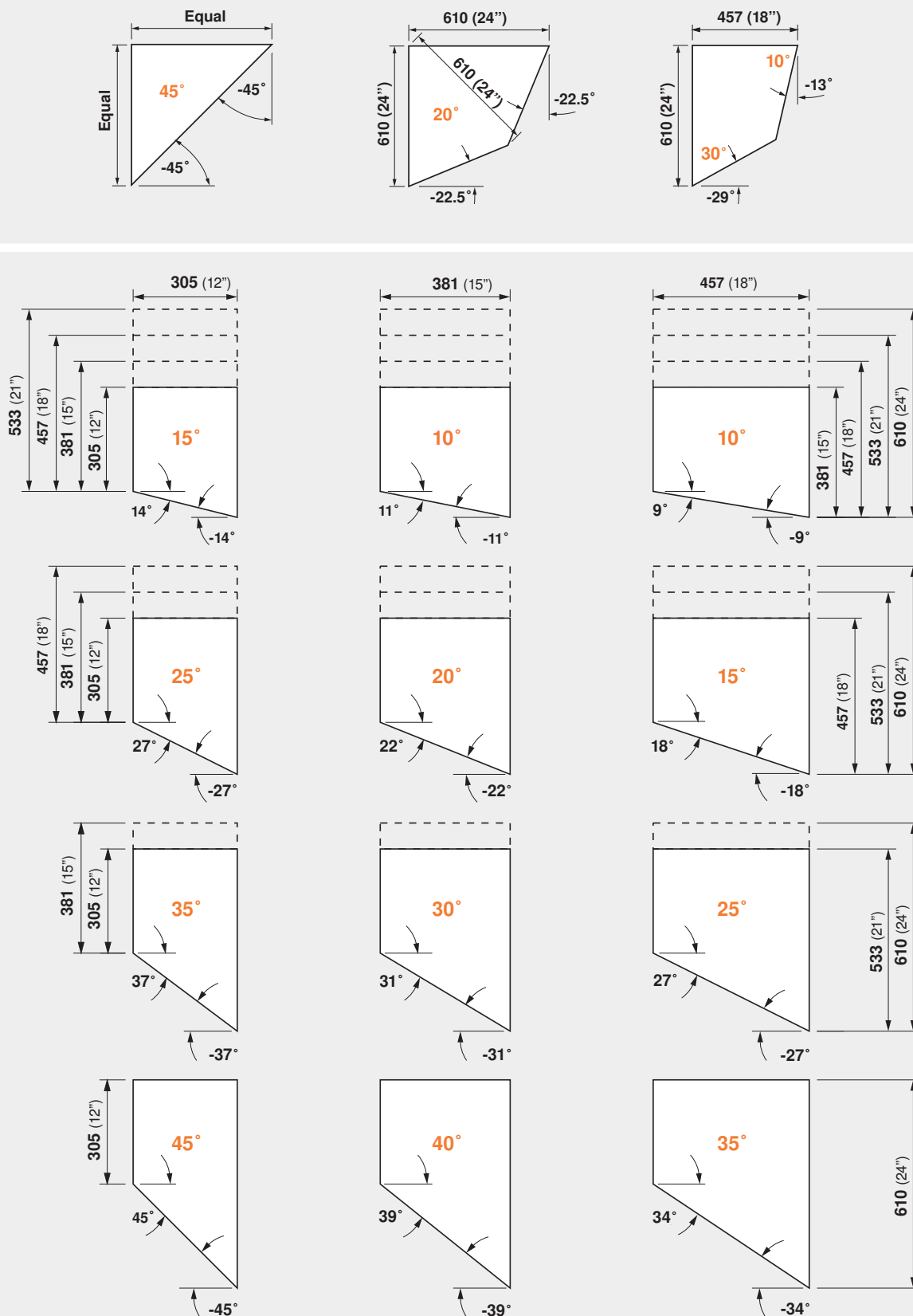


Angled cabinet configurations



Match desired configuration to "Angle-to-style cross-reference" chart on page 35

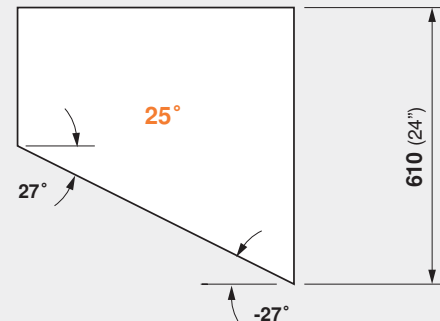
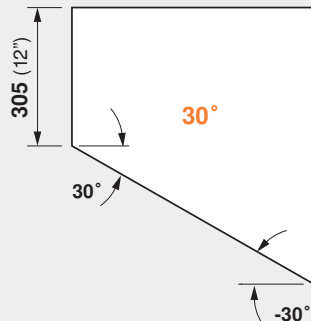
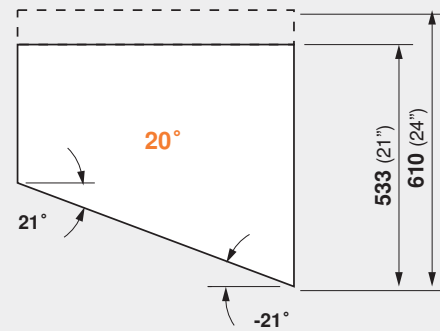
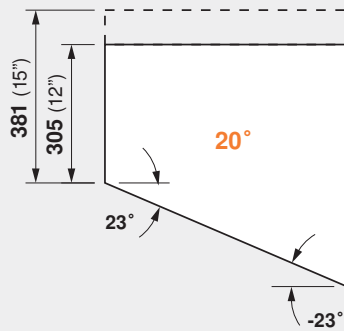
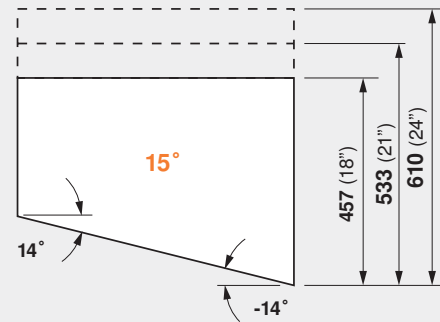
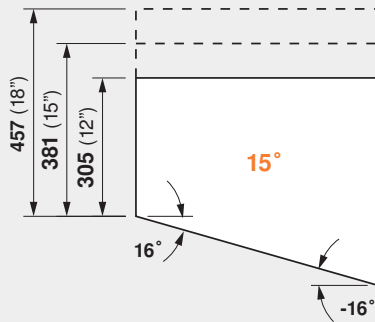
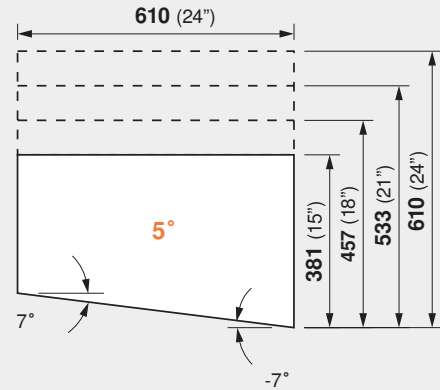
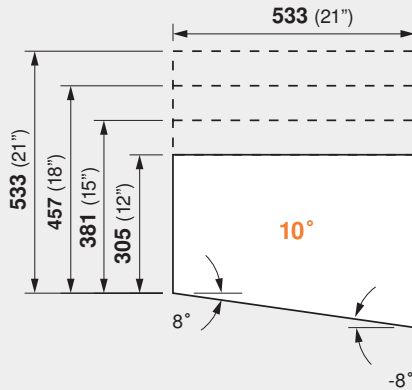
Angled



Angled cabinet configurations

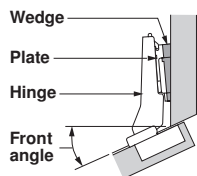


Match desired configuration to "Angle-to-style cross-reference" chart on page 35



Angled

Angle-to-style cross-reference



Code number	Specifications on pages 36-42	
Hinge	Clip top hinge	Part number
Plate	Clip mounting plate	Part number
Wedge	May or may not be required	Part number

Positive angles

Negative angles



Maximum overlay

Partial overlay

Corner merge

Inset door

Mitered corner

Maximum overlay

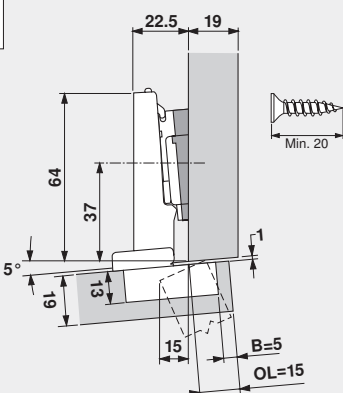
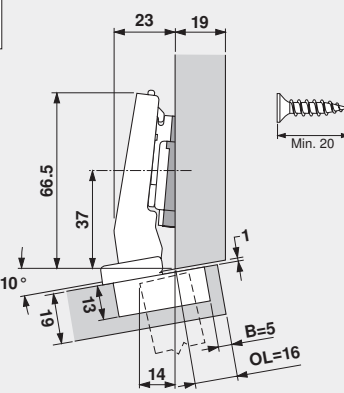
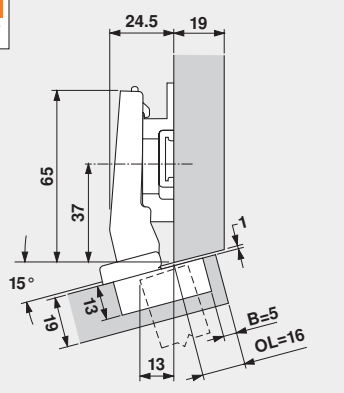
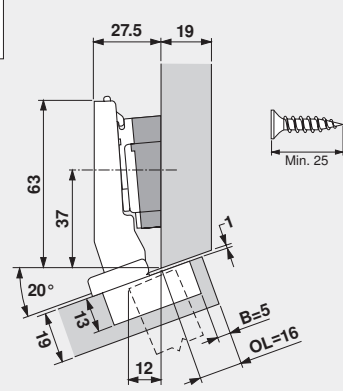
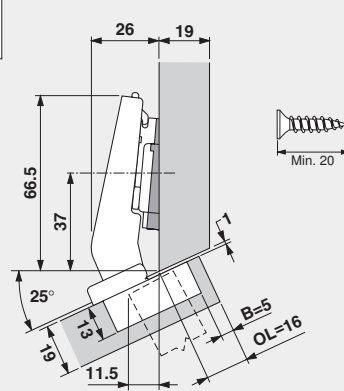
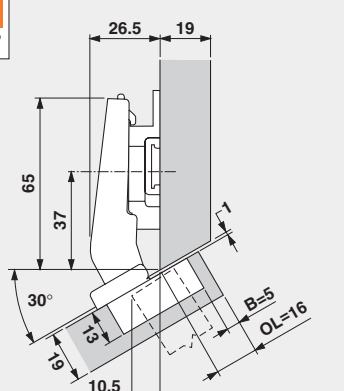
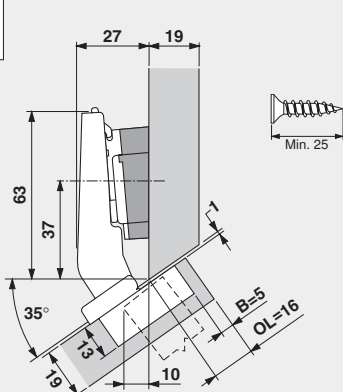
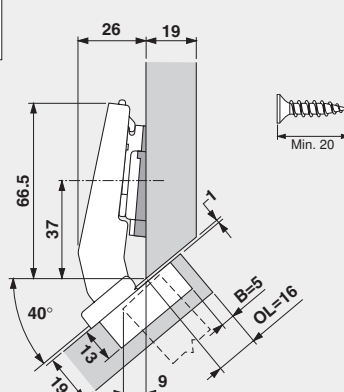
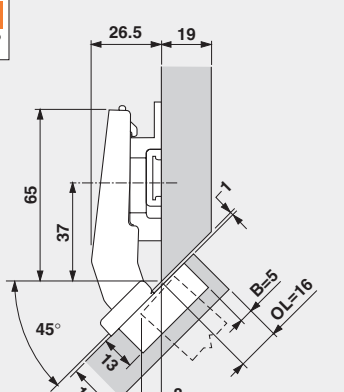
Inset door

	1	10	19	27			42	51
5°	71T9590	71T9590	71T9690	71T9790		-5°	71T9590	71T9690
	173H7100	173H7100	173H7100	173H7100			173H7100	173H7100
	171A5010	171A5010	171A5070	171A5010			171A5500	171A5500
10°	2	11	20	28		-10°	43	52
	79A9494.T	79A9494.T	79A9494.T	79A9494.T			79A5493.T	79A5493.T
	173H7100	173H7100	175H9190.22	175H9190.22			173H7100	175H7190
	171A5500	171A5500	171A5500	171A5500			171A5010	171A5070
15°	3	12	21	29	36	-15°	44	53
	79A9494.T	79A9494.T	79A9595.T	79A9595.T	79A9595.T		79A5493.T	79A5493.T
	175H9160	175H9190	173H7130	175H9190	173H7100		173H7100	175H9190.22
	—	—	171A5500	171A5500	171A5500		—	—
20°	4	13	22	30	37	-20°	45	54
	79A9494.T	79A9595.T	79A9595.T	79A9595.T	79A9595.T		79A5493.T	79A5493.T
	173H7100	173H7100	175H9190	175H9190.22	175H9160		173H7100	175H7160
	171A5070	—	—	—	—		171A5500	171A5500
25°	5	14	23	31	38	-25°	46	55
	79A9496.T	79A9595.T	79A9596.T	79A9596.T	79A9596.T		79A5491.T	79A5491.T
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	175H7190
	171A5500	171A5010	171A5500	—	171A5500		171A5040	171A5070
30°	6	15	24	32	39	-30°	47	
	79A9496.T	79A9596.T	79A9596.T	79A9596.T	79A9596.T		79A5491.T	
	175H9160	173H7100	175H9190	175H9190.22	173H7130		173H7130	
	—	—	—	—	—		—	
35°	7	16	25	33	40	-35°	48	
	79A9496.T	79A9596.T	79A9596.T	79A9596.T	79A9596.T		79A5491.T	
	173H7100	173H7100	173H7100	175H9190.22	173H7100		173H7100	
	171A5070	171A5010	171A5070	171A5010	171A5040		171A5500	
40°	8	17		34		-40°	49	
	79A9498.T	79A9498.T		79A9698.T			79A5490.T	
	173H7100	175H9160		175H9190			173H7100	
	171A5500	171A5500		171A5500			171A5040	
45°	9	18	26	35	41	-45°	50	56
	79A9498.T	79T5590	79A9698.T	79T5590	79A9698.T		79A5490.T	79A5490.T
	175H9160	173H7100	173H7100	175H9190.22	173H7100		173H7130	175H7190
	—	—	—	—	—		—	181A6130

Maximum overlay specifications



Positive angles

1 5°  Hinge Mtg. plate Wedge 71T9590 • 173H7100 171A5010	2 10°  Hinge Mtg. plate Wedge 79A9494.T 173H7100 171A5500	3 15°  Hinge Mtg. plate Wedge 79A9494.T 175H9160 —
4 20°  Hinge Mtg. plate Wedge 79A9494.T 173H7100 171A5070	5 25°  Hinge Mtg. plate Wedge 79A9496.T 173H7100 171A5500	6 30°  Hinge Mtg. plate Wedge 79A9496.T 175H9160 —
7 35°  Hinge Mtg. plate Wedge 79A9496.T 173H7100 171A5070	8 40°  Hinge Mtg. plate Wedge 79A9498.T 173H7100 171A5500	9 45°  Hinge Mtg. plate Wedge 79A9498.T 175H9160 —

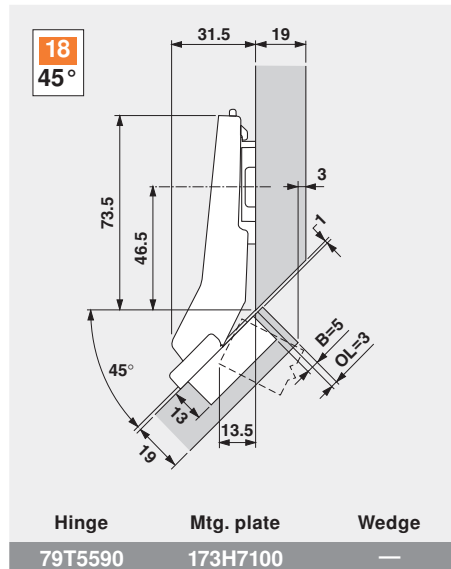
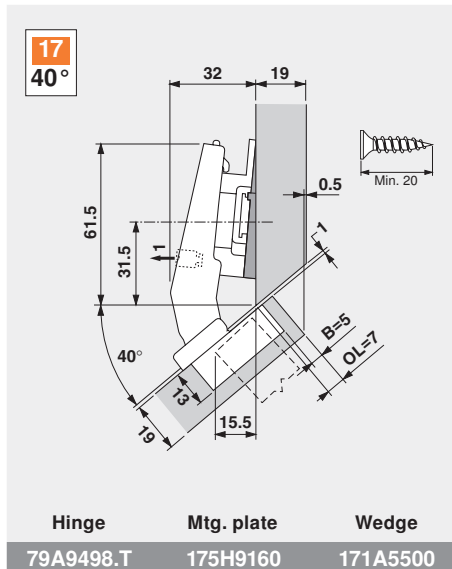
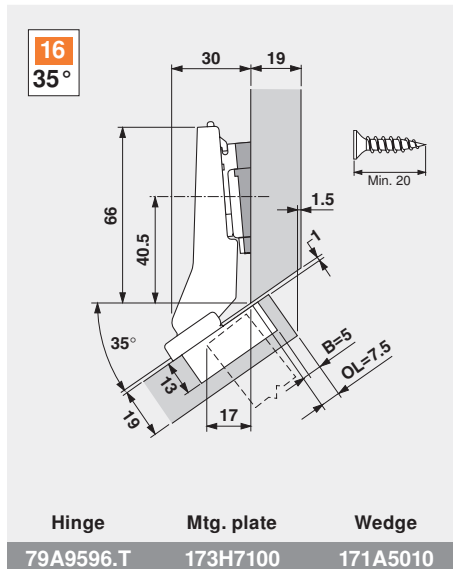
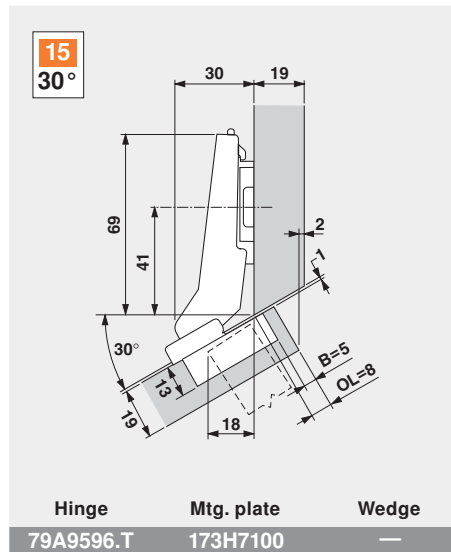
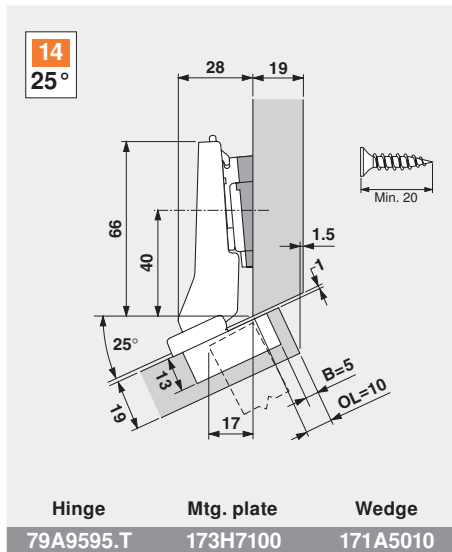
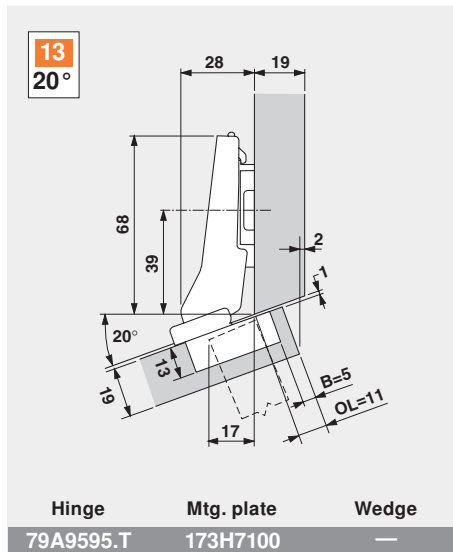
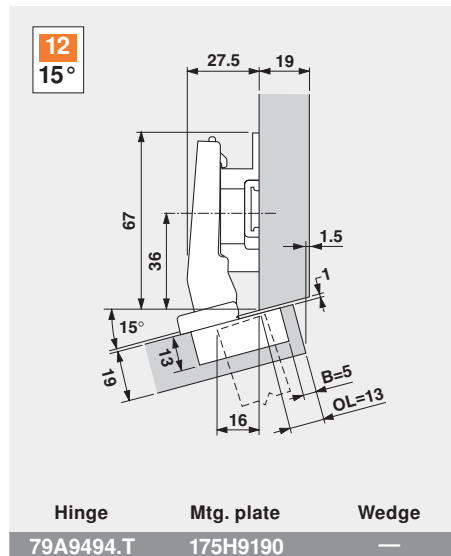
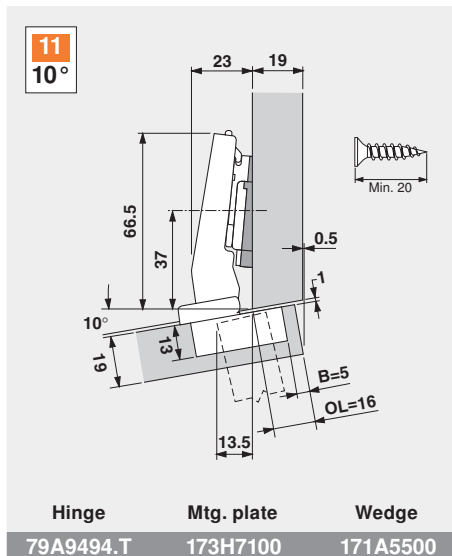
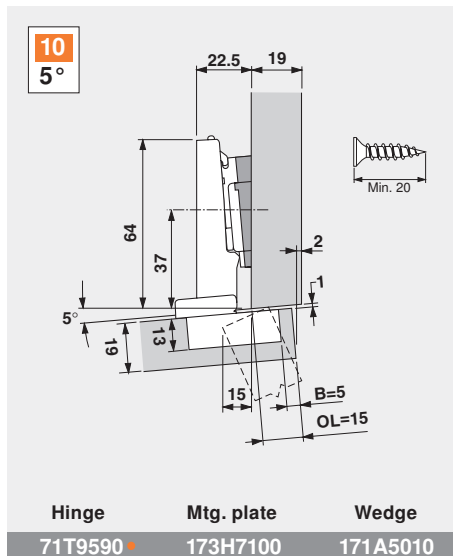
• Any full overlay CLIP top hinge can be used

All dimensions in millimeters (inch equivalents as shown).
Subject to technical modifications without notice. © 2004

Partial overlay specifications

Positive angles

Angled



• Any full overlay CLIP top hinge can be used

Corner merge specifications

Positive angles

19 5° Hinge Mtg. plate Wedge 71T9690 • 173H7100 171A5070	20 10° Hinge Mtg. plate Wedge 79A9494.T 175H9190.22 171A5500	21 15° Hinge Mtg. plate Wedge 79A9595.T 173H7130 171A5500
22 20° Hinge Mtg. plate Wedge 79A9595.T 175H9190 —	23 25° Hinge Mtg. plate Wedge 79A9596.T 173H7100 171A5500	24 30° Hinge Mtg. plate Wedge 79A9596.T 175H9190 —
25 35° Hinge Mtg. plate Wedge 79A9596.T 173H7100 171A5070		26 45° Hinge Mtg. plate Wedge 79A9698.T 173H7100 —

• Any full overlay CLIP top hinge can be used

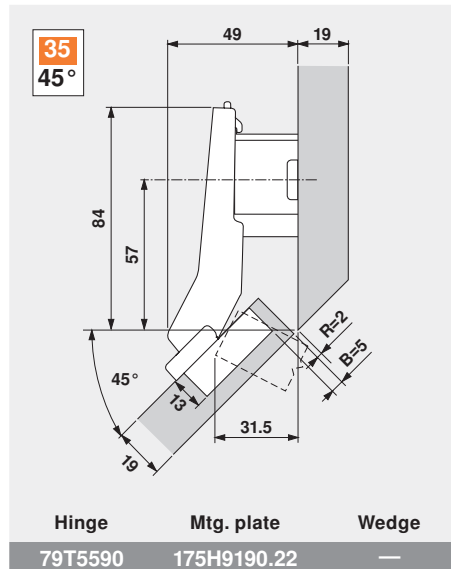
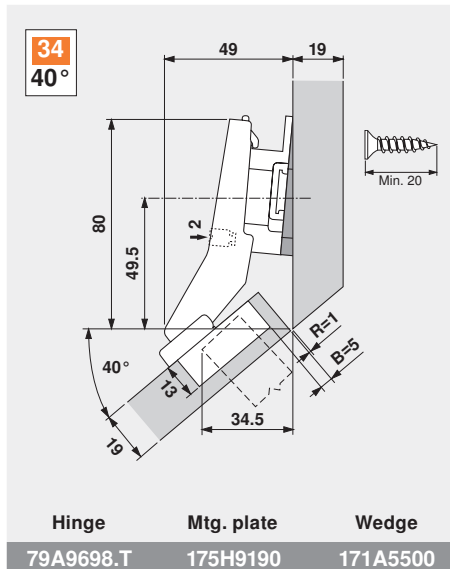
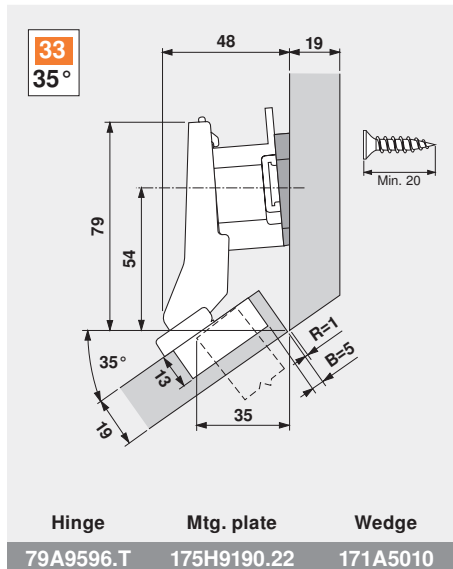
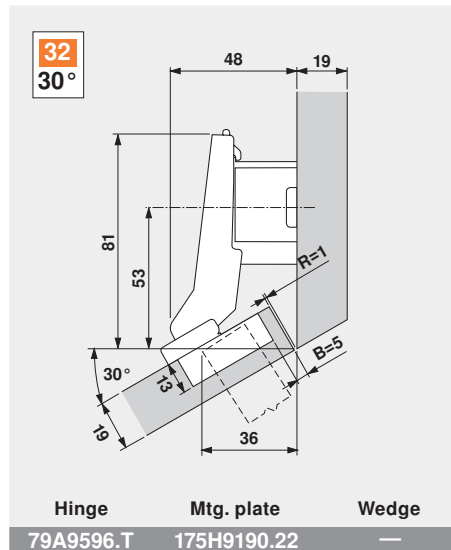
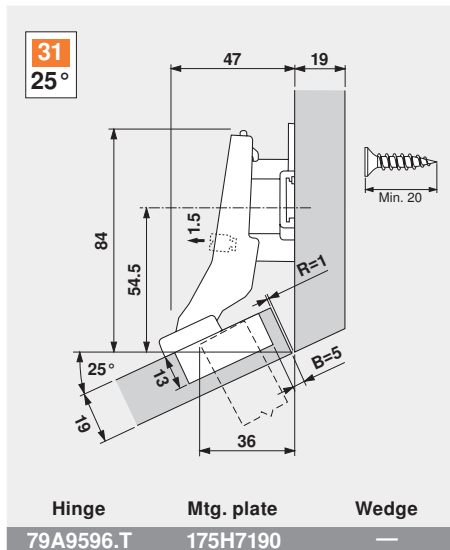
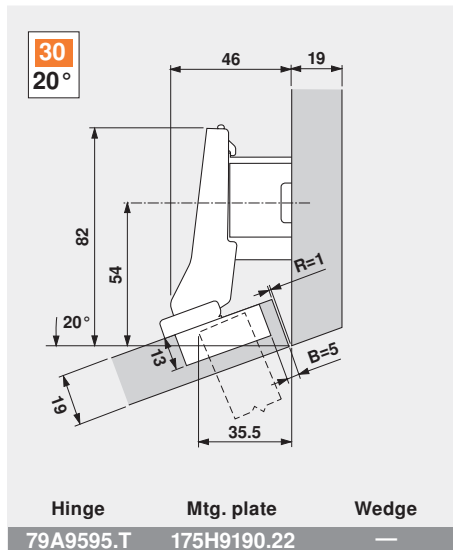
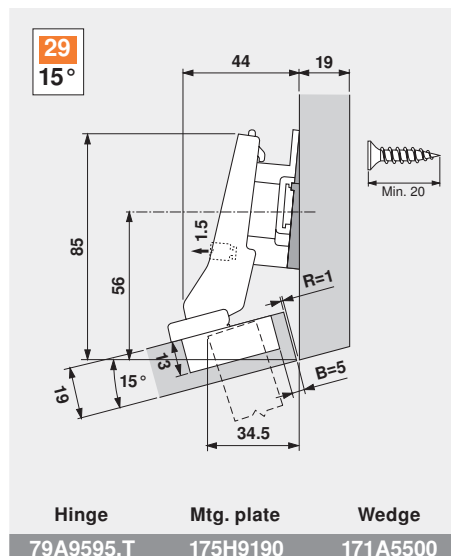
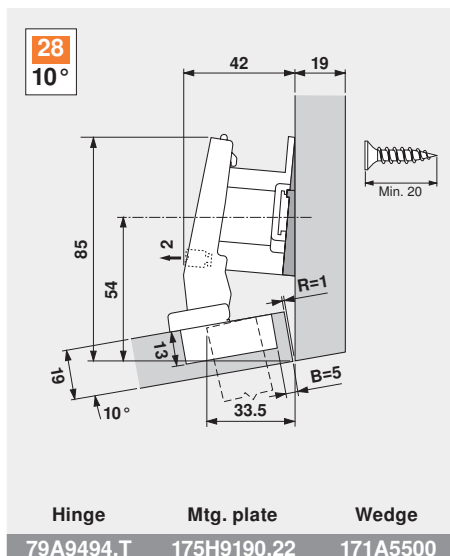
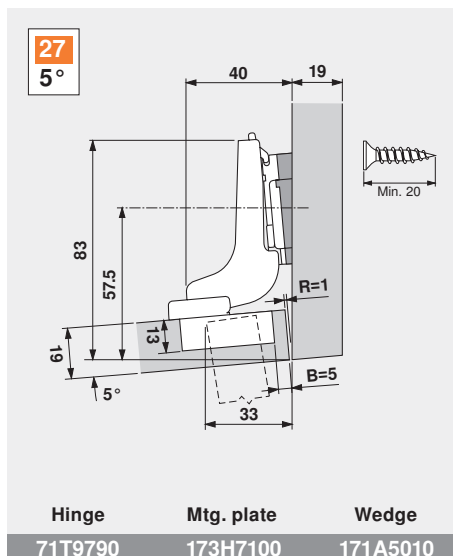
All dimensions in millimeters (inch equivalents as shown).
Subject to technical modifications without notice. © 2004

Inset door specifications



Positive angles

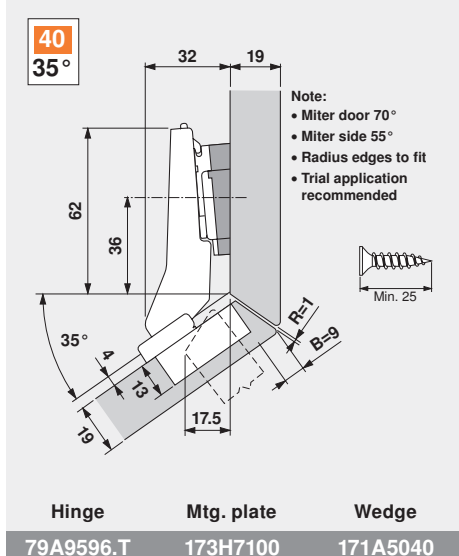
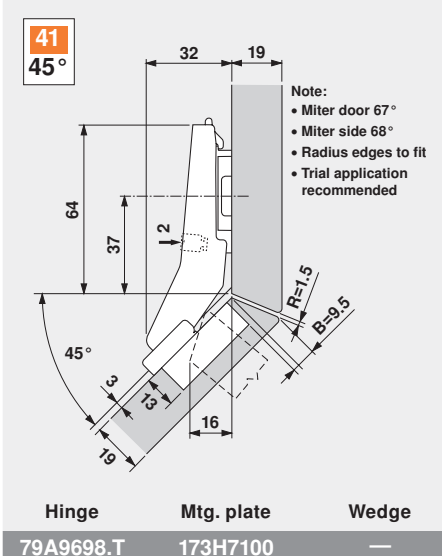
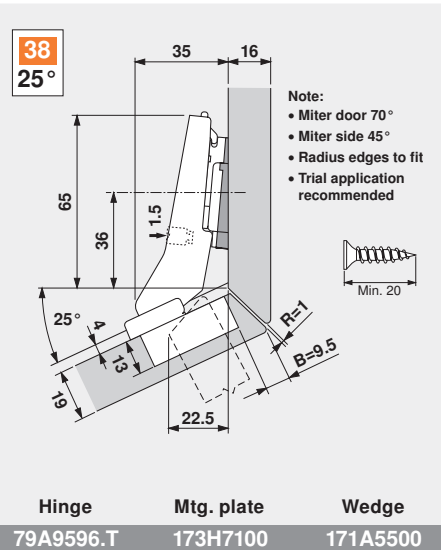
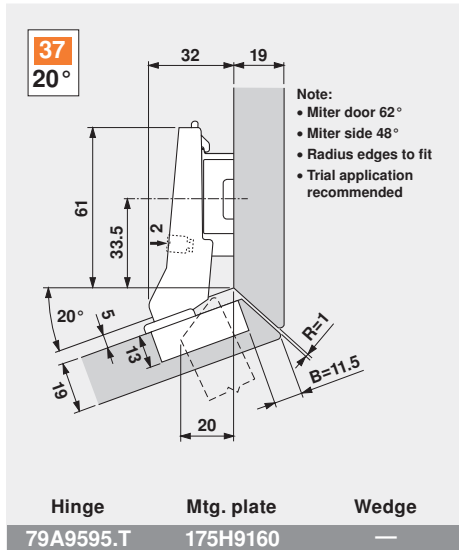
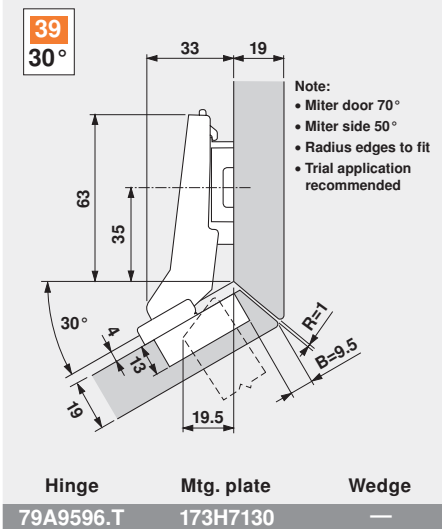
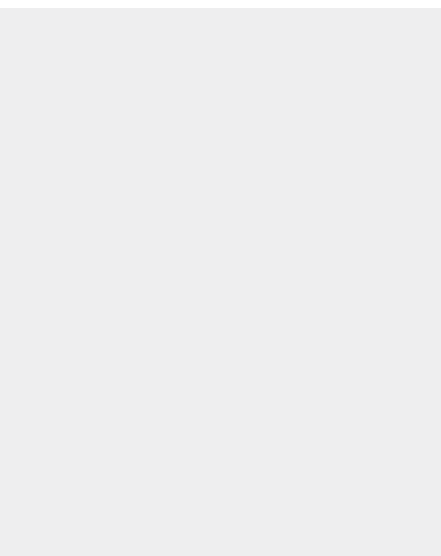
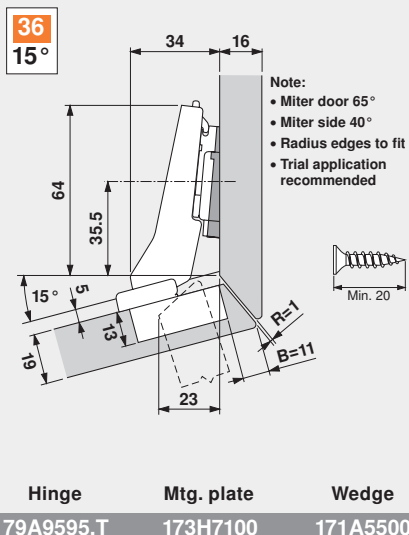
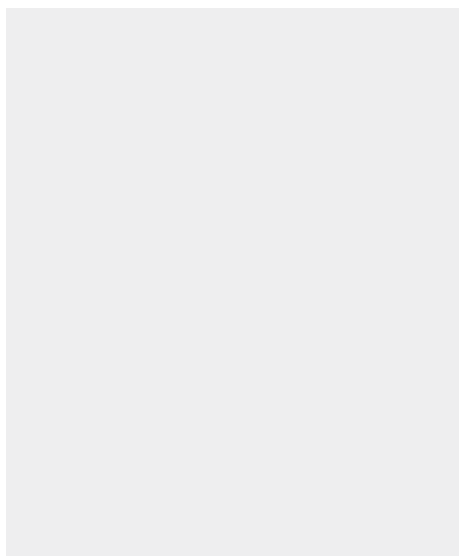
Angled



Mitered corner specifications



Positive angles

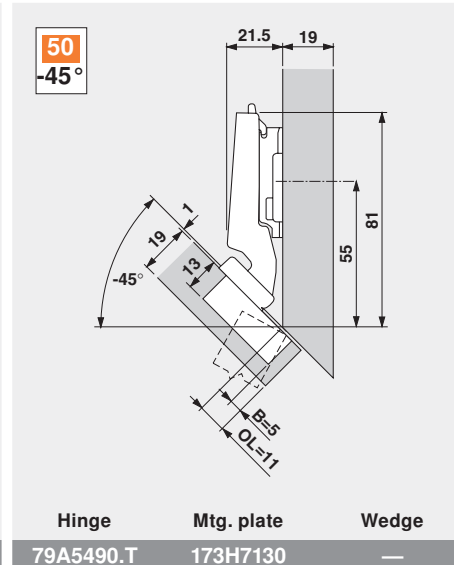
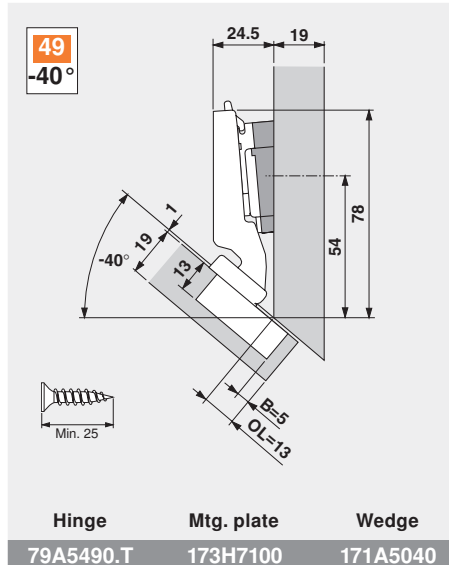
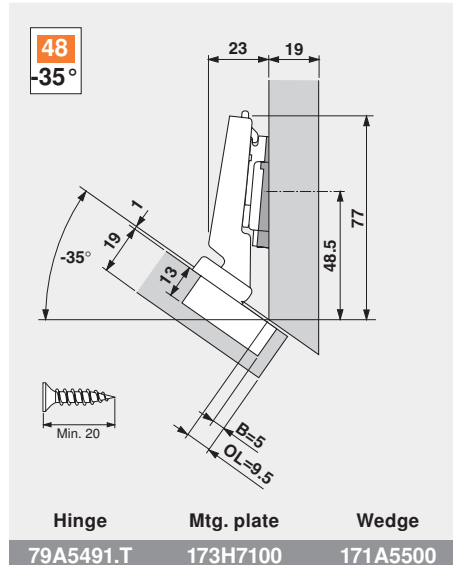
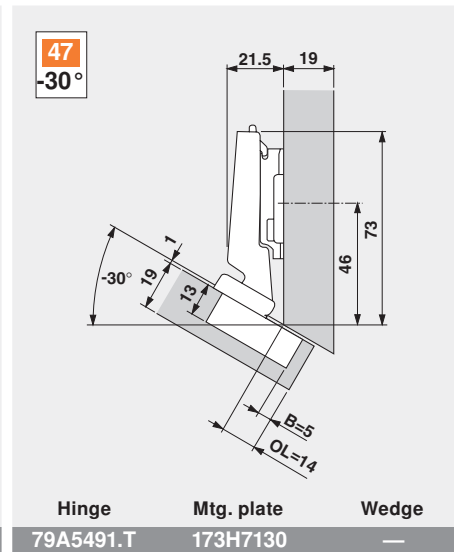
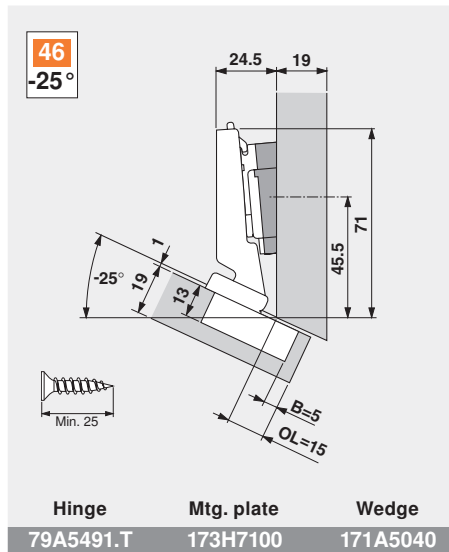
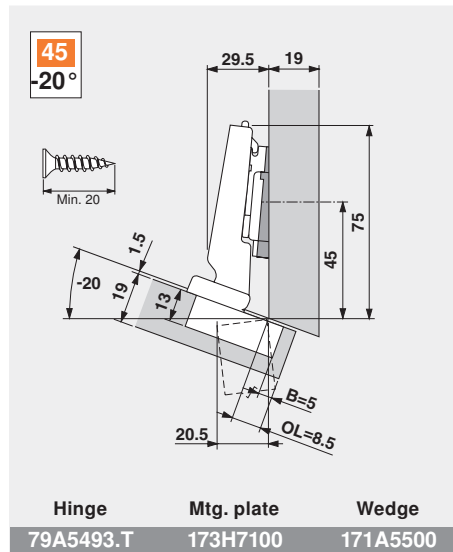
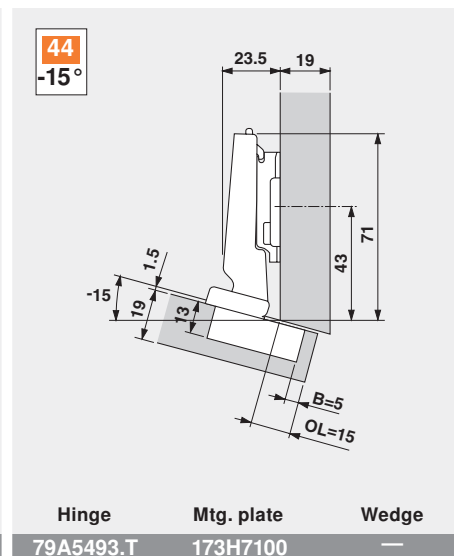
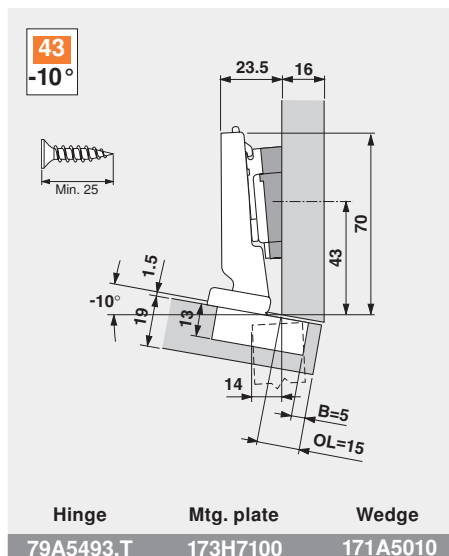
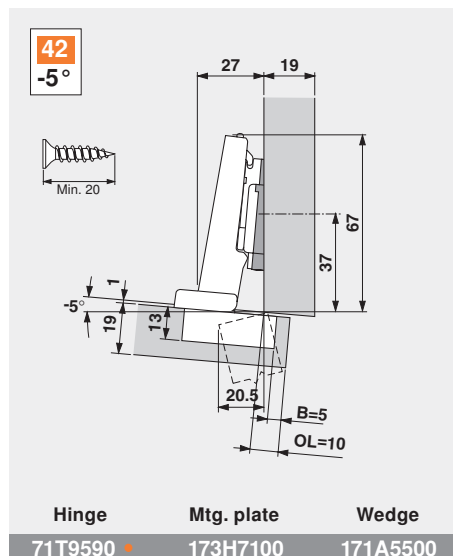


Maximum overlay specifications



Negative angles

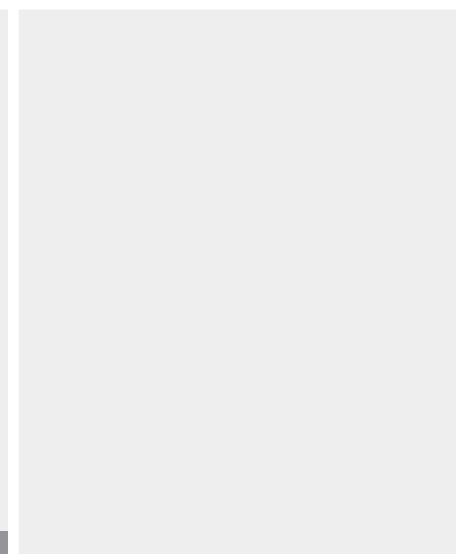
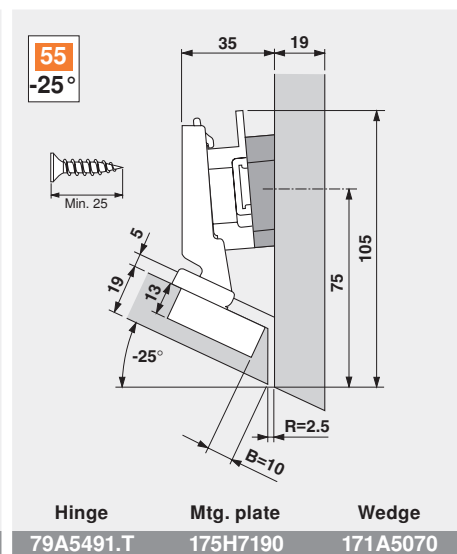
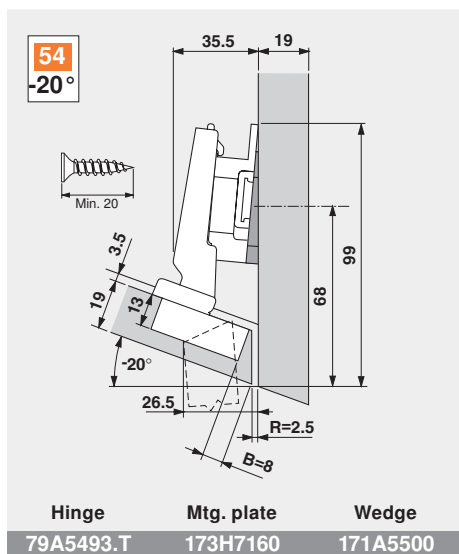
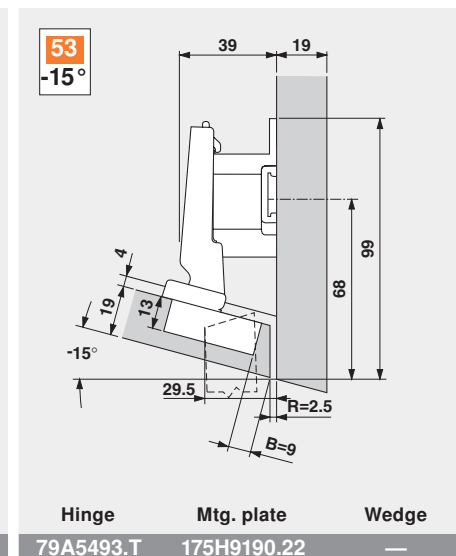
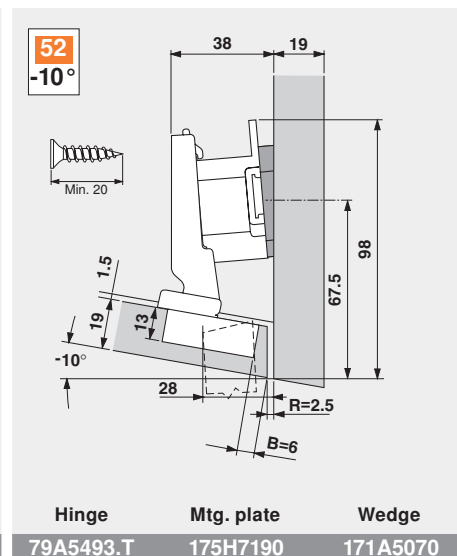
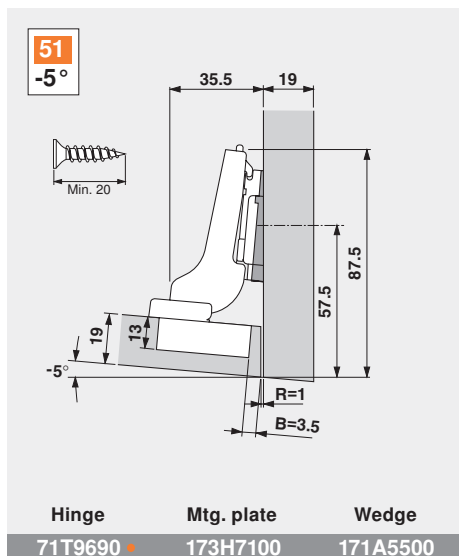
Angled



• Any full overlay CLIP hinge can be used



Negative angles

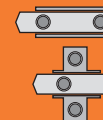


• Any half overlay CLIP top hinge can be used

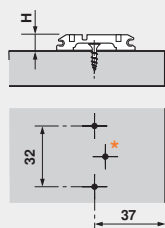
All dimensions in millimeters (inch equivalents as shown).
Subject to technical modifications without notice. © 2004



CLIP mounting plates



One piece wing mounting plate



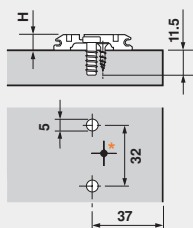
- Steel, nickel plated
- Attached with wood screws #6 x 5/8" (606P)
- Height adjustment +/-3mm
- *Add additional wood screw if used with wide angled hinges

Wood screws
#6 x 5/8" (606P)

(H) Height 0
173L6100

(H) Height 3
173L6130

One piece wing mounting plate



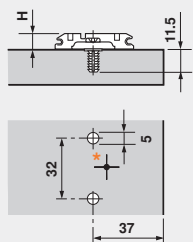
- Steel, nickel plated
- Attached with pre-mounted system screws Ø5mm (668.1450.EH)
- Height adjustment +/-3mm
- *Add additional wood screw if used with wide angled hinges

System screws
668.1450.EH

(H) Height 0
173L8100

(H) Height 3
173L8130

EXPANDO mounting plate



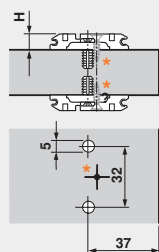
- Steel, nickel plated
- Attached with pre-mounted screws with EXPANDO dowels
- Height adjustment +/-2mm
- *Add additional wood screw if used with wide angled hinges

EXPANDO dowels
Pre-mounted

(H) Height 0
174E6100.01

(H) Height 3
174E6130.01

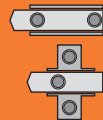
EXPANDO mounting plate (twin application)



- Steel, nickel plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application
- Height adjustment +/-2mm
- *Additional wood screw required

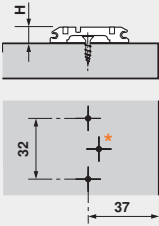
EXPANDO dowels
Pre-mounted

(H) Height 0
174E610Z



Cam mounting plate



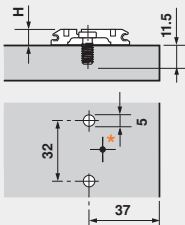


- Steel, nickel plated
- Attached with wood screws #6 x 5/8" (606P)
- Cam height adjustable +/-2mm
- *Add additional wood screw if used with wide angled hinges

Wood screws #6 x 5/8" (606P)	(H) Height 0 173H7100	(H) Height 3 173H7130

Cam mounting plate



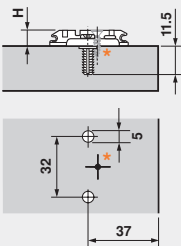


- Steel, nickel plated
- Attached with system screws (661.1150.HG)
- Cam height adjustment +/-2mm
- *Add additional wood screw if used with wide angled hinges

Wood screws or System screws #7 x 5/8" (707N) 661.1150.HG	(H) Height 0 173H9100	(H) Height 3 173H9130

EXPANDO cam mounting plate



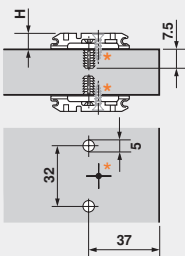


- Steel, nickel plated
- Attached with pre-mounted screws with EXPANDO dowels
- Cam height adjustment +/-2mm
- *Add additional wood screw if used with wide angled hinges

EXPANDO dowels Pre-mounted	(H) Height 0 174H7100E	(H) Height 3 174H7130E

EXPANDO cam mounting plate (twin application)



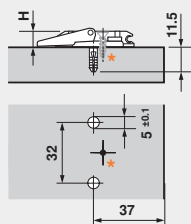


- Steel, nickel plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application
- Cam height adjustment +/-2mm
- *Additional wood screw required

EXPANDO dowels Pre-mounted	(H) Height 0 174H710ZE



INSERTA cam mounting plate

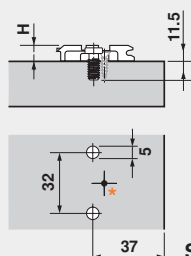


- Steel (closing lever – zinc die-cast, nickel plated)
- Tool-free assembly with self-anchoring feature
- Cam height adjustment ± 2 mm
- *Add additional wood screw if used with wide angle hinges

INSERTA dowels Pre-mounted

(H) Height 0	(H) Height 3
174H7100I	174H7130I

One piece wing mounting plate

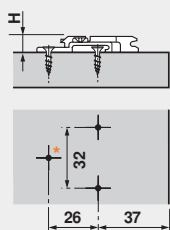


- Zinc die-cast, nickel plated
- Attached with pre-mounted system screws $\varnothing 5$ mm (668.1450.EH)
- Height adjustment ± 3 mm
- *Add additional wood screw if used with wide angle hinges

System screws 668.1450.EH

(H) Height 0	(H) Height 3	(H) Height 9
175L8100	175L8130	175L8190

Two piece wing mounting plate

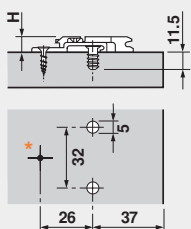


- Zinc die-cast, nickel plated
- Attached with wood screws #6 x 5/8" (606P)
- Height adjustment ± 2 mm
- *Add additional wood screw if used with wide angled hinges

Wood screws #6 x 5/8" (606P)

(H) Height 0	(H) Height 3	(H) Height 9
175H7100	175H7130	175H7190

Two piece wing mounting plate

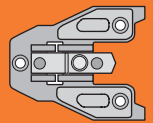


- Zinc die-cast, nickel plated
- Attached with system screws $\varnothing 5$ mm (661.1150.HG)
- Height adjustment ± 2 mm
- *Add additional wood screw if used with wide angled hinges

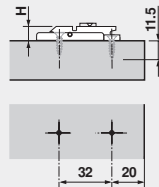
Wood screws or System screws #7 x 5/8" (707N) 661.1150.HG

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

CLIP in-line mounting and face frame adapter plates



Screw-on cam in-line mounting plate

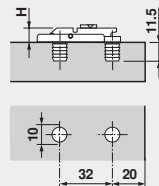


- Zinc die-cast, nickel plated
- Screw-on assembly with included screws (629.1700)
- Cam height adjustment ± 2 mm
- Use of the Quickfix or mounting plate template recommended for proper installation

Wood screws
629.1700 (included)

(H) Height 0
175H5100.05

Press-in cam in-line mounting plate



- Zinc die-cast, nickel plated
- Press-in assembly with pre-attached dowels
- Assembly with #50 insertion ram or knock-in tool (page 89)
- Cam height adjustment ± 2 mm
- Use of the Quickfix or mounting plate template recommended for proper installation

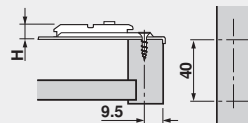
Press-in
Pre-mounted dowels

(H) Height 0
177H5100

(H) Height 3
177H5130

CLIP plates

Face frame cam adapter plate – center mount



- Steel, zinc die-cast and nickel plated
- Center mount **9.5** (3/8")
- Cam height adjustment ± 2 mm
- Use of the PlateMate recommended (see page 84)

Wood screws
#7 x 3/4" (7074N)

(H) Height 0
175H6000 *

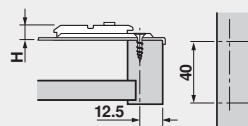
(H) Height 3
175H6030

(H) Height 4.5
175H6040

(H) Height 6
175H6060

* 175H6000 not for use with INSERTA hinges (use 175H6600)

Face frame cam adapter plate – off-center mount

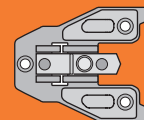


- Steel, zinc die-cast and nickel plated
- For use with INSERTA hinge cups
- Off-center mount **12.5** (1/2")
- Cam height adjustment ± 2 mm
- Use of the PlateMate recommended (see page 84)

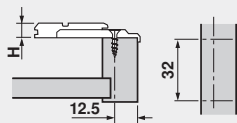
Wood screws
#7 x 3/4" (7074N)

(H) Height 0
175H6600

CLIP face frame adapter plates



Face frame adapter plate – off-center mount



- Zinc die-cast, nickel plated
- Off-center mount **12.5** (1/2")
- Height adjustment +/-2mm
- Use of the PlateMate recommended (see page 84)

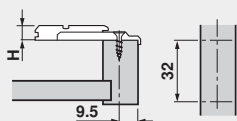
Wood screws
#7 x 3/4" (7074N)

(H) Height 0
175L6600.22

(H) Height 3
175L6630.22

(H) Height 6
175L6660.22

Face frame adapter plate – center mount

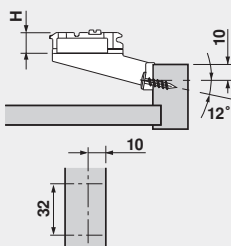
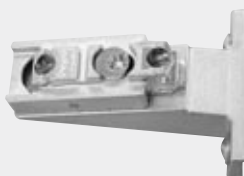


- Zinc die-cast, nickel plated
- Center mount **9** (3/8")
- Height adjustment +/-2mm
- Use of the PlateMate recommended (see page 84)
- Not for use with INSERTA hinge cups

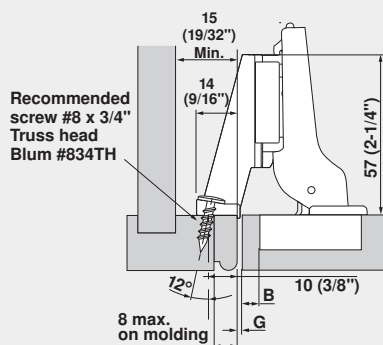
Wood screws
#7 x 3/4" (7074N)

(H) Height 3
175L6030.21

Inset face frame cam adapter plate



- Use with half-cranked hinges only
- Zinc die-cast, nickel plated
- Attached with truss head screws #8 x 3/4" (834TH)
- No build-up behind face frame is necessary
- Can be used on frames with applied bead molding
- Cam height adjustment +/-2mm
- 170° hinges not recommended
- Use of the PlateMate required (see page 84)



Boring distance (B)	6 (1/4")	5 (3/16")	4 (5/32")	3 (1/8")
Door gap (G)	1.6 (1/16")	2.6 (3/32")	3.6 (5/32")	4.6 (3/16")

Note: Pre-bore holes for mounting to frame at 12° with 65.5030.01 boring template on page 84

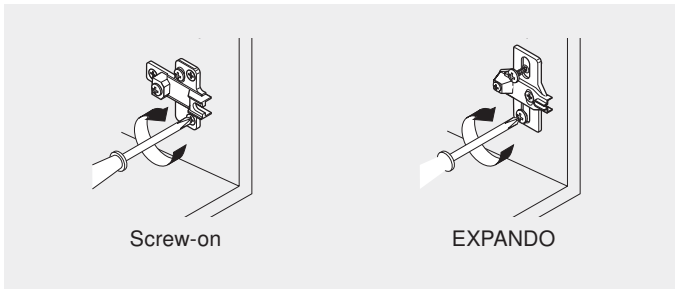
Wood screws
#8 x 3/4" truss head (834TH)

(H) Height 9
175H5030.21

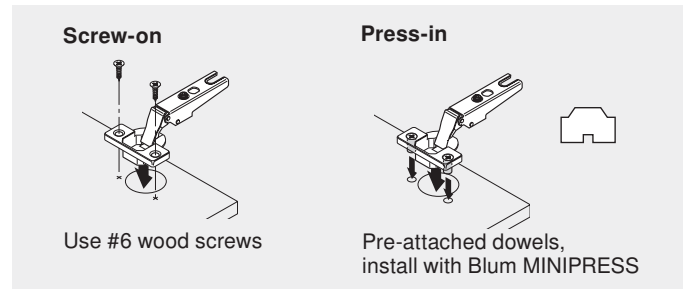


MODUL hinges

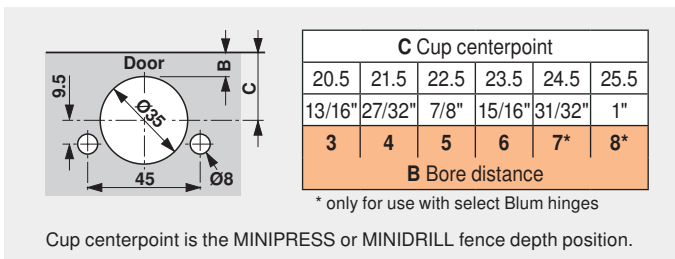
Mounting plate-to-cabinet



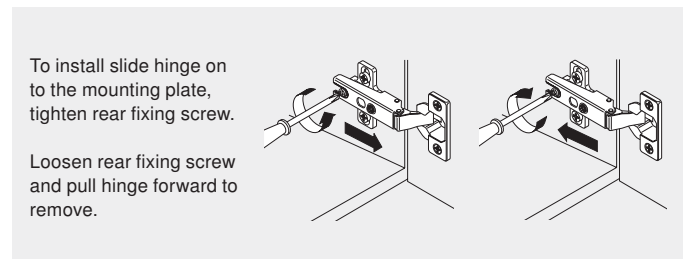
Hinge-to-door attachment



Blum boring pattern



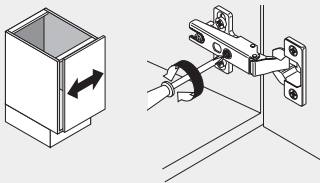
Door-to-cabinet attachment



Three-dimensional adjustment

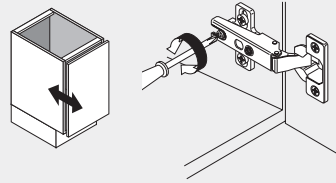
Side adjustment

Turn front screw to increase or decrease door overlay.
Range = +/-2mm



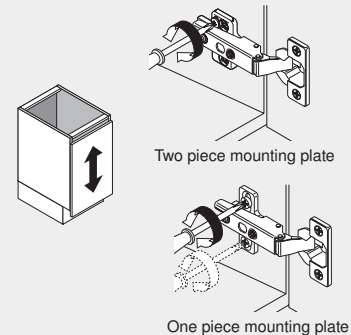
Depth adjustment

Loosen back screw. Adjust door to position and tighten screw.
Range = +/-2mm

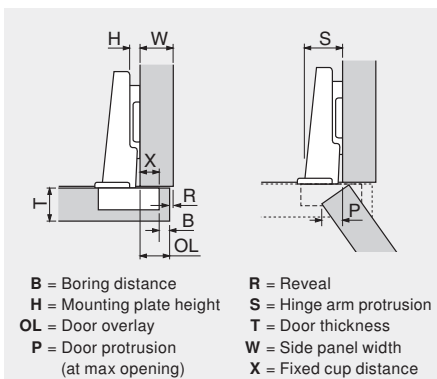


Height adjustment

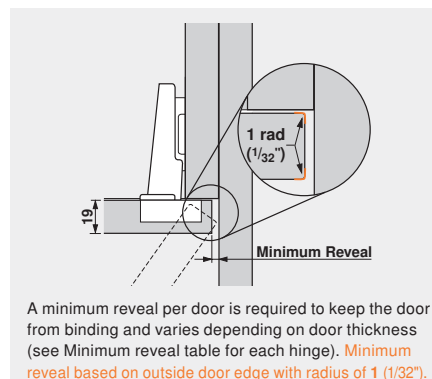
Loosen screw(s) on the mounting plate. Adjust door to position and tighten screws.
Range = +/-3mm



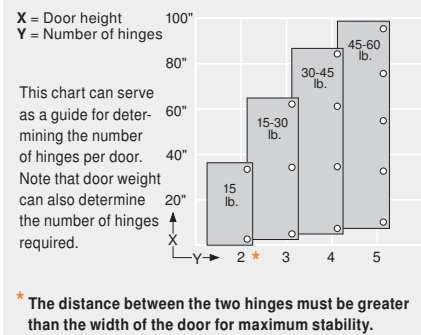
Hinge dimension abbreviations

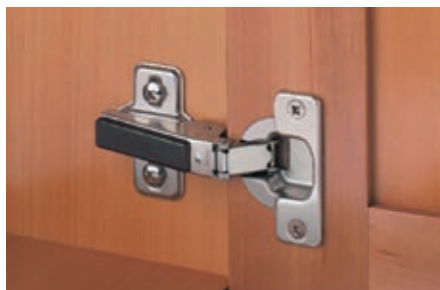


Minimum reveal



Hinges per door





Features

- 100° opening angle
- All metal hinge, nickel plated
- 3-dimensional adjustment
- Slide-on hinge arm

Cover caps
Mounting plates

page 57

pages 55-56

Minimum Reveal

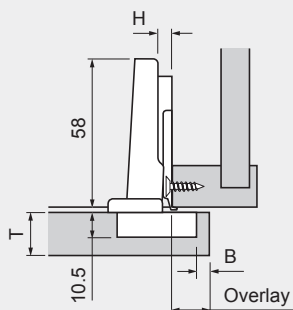
Minimum reveal table							
0.5	0.9	1.1	1.4	2.3	3.6	5.2	3
0.5	0.8	1.0	1.3	2.0	3.3	4.8	4
0.4	0.8	1.0	1.2	1.8	3.0	4.4	5
0.4	0.8	0.9	1.1	1.7	2.8	4.1	6
16	18	19	20	22	24	26	B
T Door thickness							Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

See back cover fold out for more specifications →

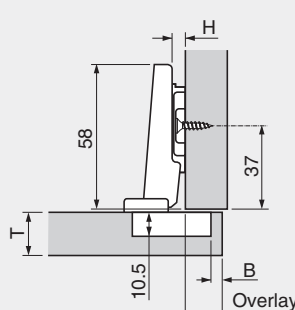
Frame cabinet applications

Overlay door



Panel cabinet applications

Overlay door



Straight-arm hinges

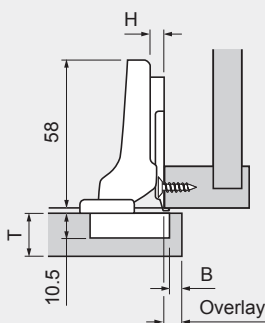
	Self close	Free swing
Screw-on	91M2550	90M2550
Press-in	91M2580	90M2580

Overlay table							
0	14	15	16	17	9	20	
3	11	12	13	14	12	23	
6	8	9	10	11	15	26	
9	5	6	7	8	18	29	
H	3	4	5	6	P	S	
Plate	B	Bore distance			Clearances		

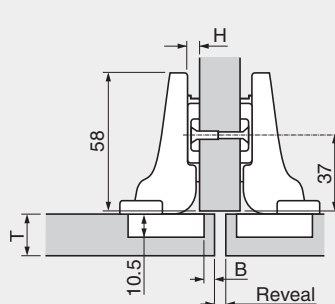
11 fixed distance

Note: 9 plate only available for panel cabinets

Partial overlay door



Twin overlay doors



Half-cranked hinges (9.5mm)

	Self close	Free swing
Screw-on	91M2650	90M2650
Press-in	91M2680	90M2680

Overlay table							
0	4.5	5.5	6.5	7.5	18.5	30	
H	3	4	5	6	P	S	
Plate	B	Bore distance			Clearances		

1.5 fixed distance

Reveal table							
0	7	5	3	1	16		
	10	8	6	4	19	18.5	30
	13	11	9	7	22		
H	3	4	5	6	W	P	S
Plate	B	Bore distance			Panel	Clearances	

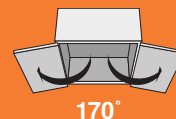
Full-cranked hinges (18mm)

	Self close	Free swing
Screw-on	91M2750	90M2750
Press-in	91M2780	90M2780

Reveal table							
0	4	3	2	1	27	38	
H	3	4	5	6	P	S	
Plate	B	Bore distance			Clearances		

- 7 fixed distance

MODUL 170° hinges



Features

- 170° opening angle
- All metal hinge, nickel plated
- 3-dimensional adjustment
- Slide-on hinge arm

Cover caps
Mounting plates

page 57

pages 55-56

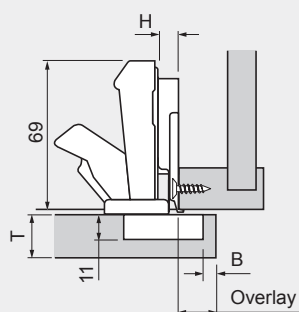
Minimum Reveal

Minimum reveal table							
0	0	0	0	0.2	2.2	4.2	3
0	0	0	0	0	1.4	3.8	4
0	0	0	0	0	.9	2.7	5
0	0	0	0	0	0	2.2	6
0	0	0	0	0	0	1.7	7
0	0	0	0	0	0	1.3	8
16	18	19	20	22	24	26	B
T Door thickness							Bore

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

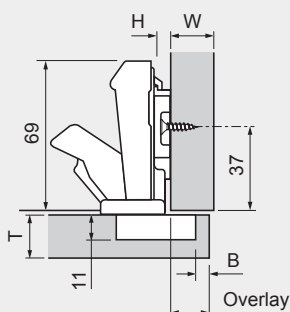
Frame cabinet applications

Overlay door

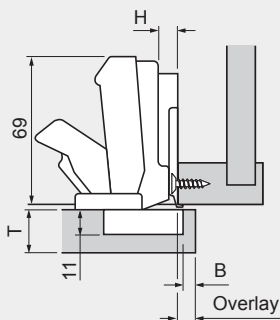


Panel cabinet applications

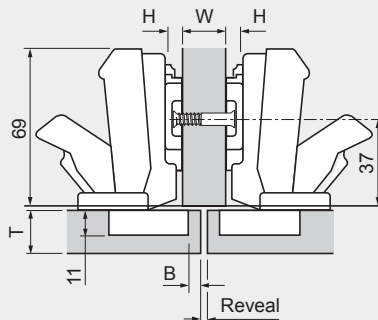
Overlay door



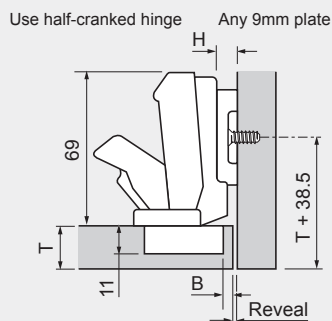
Partial overlay door



Twin overlay doors



Inset door



Straight-arm hinges

Self close

Screw-on 91A6550

Press-in 18 91A6580

Overlay table

0	14	15	16	17	18	19	1.5	65
3	11	12	13	14	15	16	4.5	68
6	8	9	10	11	12	13	7.5	71
9	5	6	7	8	9	10	10.5	74
H	3	4	5	6	7	8	P	S
Plate	B Bore distance						Clearances	

11 fixed distance

Note: 9 plate only available for panel cabinets

Half-cranked hinges (9.5mm)

Self close

Screw-on 91A6650

Press-in 18 91A6680

Overlay table

0	4.5	5.5	6.5	7.5	8.5	9.5	11	75
H	3	4	5	6	7	8	P	S
Plate	B Bore distance						Clearances	

1.5 fixed distance

Reveal table

0	7	5	3	1	-	-	16		
	10	8	6	4	2	0	19	11	75
	13	11	9	7	5	3	22		
H	3	4	5	6	7	8	W	P	S
Plate	B Bore distance						Panel	Clearances	

Half-cranked hinges (9.5mm)

Self close

Screw-on 91A6650

Press-in 18 91A6680

Reveal table

9	4.5	3.5	2.5	1.5	0.5	-	20	84
H	3	4	5	6	7	8	P	S
Plate	B Bore distance						Clearances	

- 7.5 fixed distance

95°



- 95° opening angle
- All metal hinge, nickel plated
- 3-dimensional adjustment
- Slide-on hinge arm

page 57

pages 55-56

Minimum reveal table							
0.2	0.3	0.4	0.5	0.9	1.3		3
0.2	0.3	0.4	0.5	0.9	1.3		4
0.2	0.3	0.4	0.5	0.9	1.3		5
0.1	0.3	0.4	0.5	0.9	1.2		6
0.1	0.3	0.4	0.5	0.9	1.2		7
16	18	19	20	22	24		B

Cross-reference the door thickness and bore distance to assure that doors won't bind when opened.

See back cover fold out for more specifications ➔

Stationary panel spaced out thickness of door bumper

28 Min.

14*

H=3

19

2

12

Reveal

*Requires 14mm setback with special mounting plate 199.8130

Stationary panel mounted to cabinet side, top and bottom

35 Min.

9

3

19

12

19

H=0

Reveal

		Self close
Screw-on		99M9550
Press-in		99M9580

Reveal table						
3	5	4	3	2	1	33
H Plate	3	4	5	6	7	P Clearances

		Self close
Screw-on		99M9550
Press-in		99M9580

Reveal table						
0	5	4	3	2	1	33
H Plate	3	4	5	6	7	P Clearances
B Bore distance						

MODUL

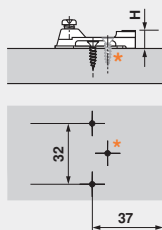
For more information on using this section see page 5.

All dimensions in millimeters (inch equivalents as shown).

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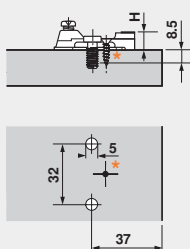
One piece wing mounting plate



- Steel, nickel plated
- Attached with wood screws #6 x 16mm (606P)
- Height adjustment +/-3mm
- *Add additional wood screw if used with wide angle hinges

Wood screws	(H) Height 0	(H) Height 3
#6 x 5/8" (606P)	193L6100	193L6130

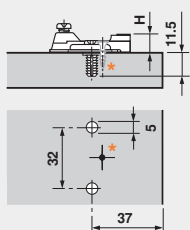
One piece wing mounting plate



- Steel, nickel plated
- Attached with pre-mounted system screws Ø5mm
- Height adjustment +/-3mm
- *Add additional wood screw if used with wide angled hinges

System screws	(H) Height 0	(H) Height 3
668.1450.EH	193L8100	193L8130

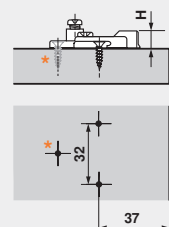
EXPANDO wing mounting plate



- Steel, nickel plated
- Attached with pre-mounted screws with EXPANDO dowels
- Height adjustment +/-2mm
- *Add additional wood screw if used with wide angled hinges

EXPANDO dowels	(H) Height 0
Pre-mounted	194E6100.ED

Two piece mounting plate

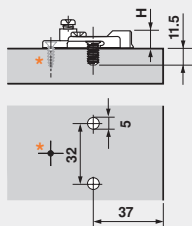


- Zinc die-cast, nickel plated
- Attached with #6 wood screw (606P)
- Height adjustment +/-2mm
- *Add additional wood screw if used with wide angled hinges

Wood screws	(H) Height 0	(H) Height 3	(H) Height 9
#6 x 5/8" (606P)	195H7100	195H7130	195H7190



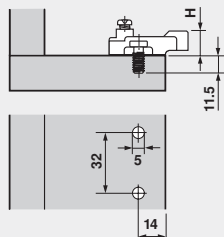
Two piece wing mounting plate



- Zinc die-cast, nickel plated
- Attached with system screws Ø6 x 14.5mm (661.1450)
- Height adjustment +/-2mm
- *Add additional wood screw if used with wide angle hinges

Wood screw or System screws	(H) Height 0	(H) Height 3	(H) Height 6	(H) Height 9	(H) Height 18
#7 x 5/8" (707N) 661.1150.HG	195H9100	195H9130	195H9160.02	195H9190	195H9100.22

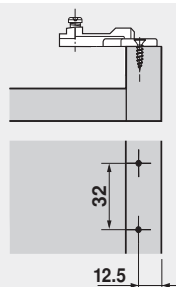
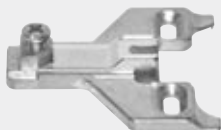
Blind corner application mounting plate



- Zinc die-cast, nickel plated
- Attached with pre-mounted system screws Ø5mm
- Height adjustment +/-2mm
- Setback 14mm

System screws	(H) Height 3
668.1450.EH	199.8130

Face frame adapter plate



- Zinc die-cast, nickel plated
- Attached with #7 wood screws (7074N)
- Height adjustment +/-2mm
- Use of the PlateMate recommended for proper installation

Wood screws	(H) Height 0	(H) Height 6
#7 x 3/4" (7074N)	198.6600.23	198.6660.22



Nylon (black or white)



MODUL cover caps

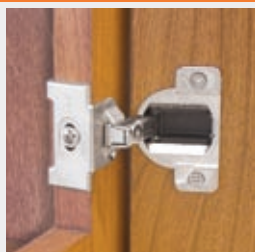
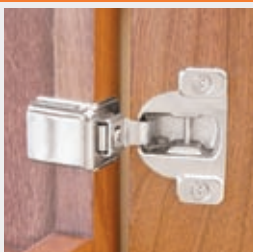
MODUL 100° hinges

MODUL 170° hinges

MODUL Blind corner hinges

Nylon	
Straight-arm	90M2103
Cranked-arm	94M3203
	80.6107
Straight-arm	90M2103

Note: Custom logo available in nylon (black or white). Consult your Blum representative for minimum quantities and lead times on custom logos.



COMPACT hinges



Partial overlay



COMPACT 38N

- Wrap around and edge mount
- Cam depth and side adjustable
- Height adjustable

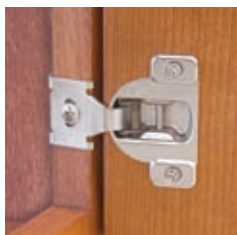
page 64



COMPACT 33

- Wrap around and edge mount
- Height and side adjustable
- 2-piece zinc die cast

page 67 - 68



COMPACT 38.

- Wrap around and edge mount
- Height adjustable

page 69

Cover caps

page 70

Full overlay



COMPACT 38/39C

- Wrap around mount
- Cam depth and side adjustable
- Height adjustable

pages 65 - 66



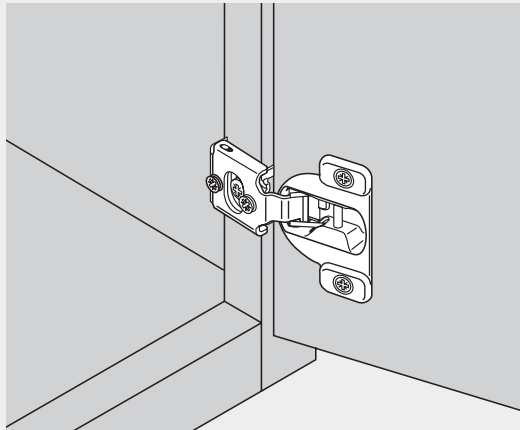
COMPACT 33

- Wrap around, edge and face mount
- Height and side adjustable
- 2-piece zinc die cast

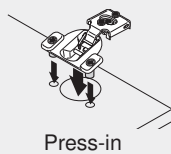
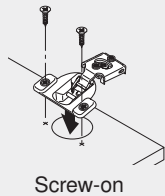
page 67 - 68

Using this section - COMPACT hinges

COMPACT 38/39 - one piece hinges



Step 1: Choose the insertion type



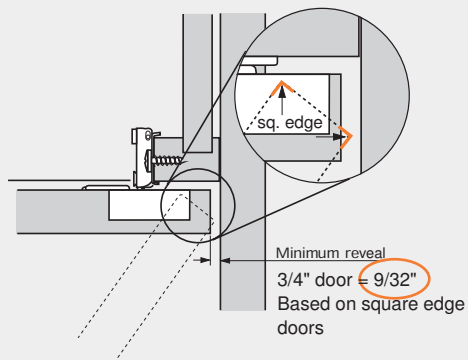
Step 2: Choose the overlay

	Self close	
	7/16"	1/2"
Screw-on	38N355C.07	38N355C.08
Press-in	38N358C.07	38N358C.08

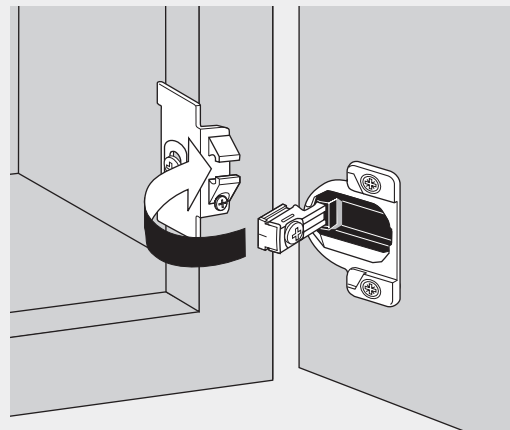
Ram needed for use with MINIPRESS

Step 3: Check minimum reveal

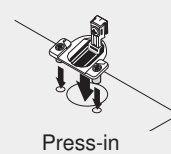
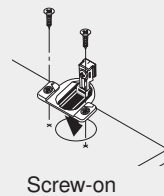
All minimum reveal tables are based on square edge doors. A radius or profile door will reduce the minimum reveal. Trial recommended.



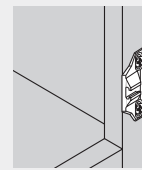
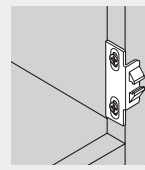
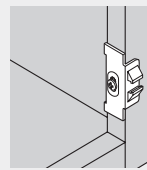
COMPACT 33 - two piece hinges



Step 1: Choose the insertion type

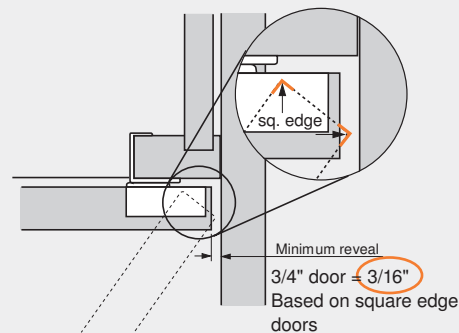


Step 2: Choose the overlay by the mounting plate



Step 3: Check minimum reveal

All minimum reveal tables are based on square edge doors. A radius or profile door will reduce the minimum reveal. Trial recommended.



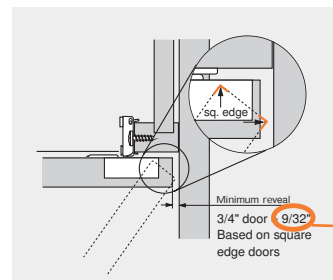
COMPACT 38N hinges



Features

- Steel, nickel plated
- 105° opening angle
- One piece assembly
- Wrap around and edge mount
- 7/16" cup depth
- +/- 1/8" height adjustment
- +/- 1/16" side adjustment
- +3/32" -1/32" cam depth adjustment

Minimum reveal



Step 1

General specs & installation
Cover caps
BLUMOTION for doors

pages 63
page 71
page 73

Step 3

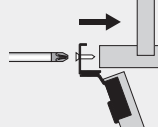
Overlay application

Wrap around	3/8"	7/16"	1/2"	5/8"	3/4"
Screw-on	38N355C.06	38N355C.07	38N355C.08	38N355C.10	38N355C.12
Press-in	38N358C.06	38N358C.07	38N358C.08	38N358C.10	38N358C.12
Edge mount	1/2"				
Screw-on	38N355CE08				
Press-in	38N358CE08				

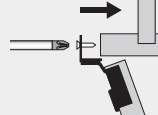
Step 2

Attachment

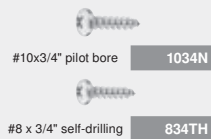
Wrap around



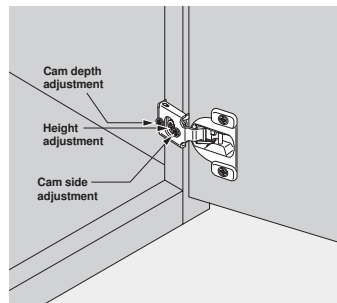
Edge mount



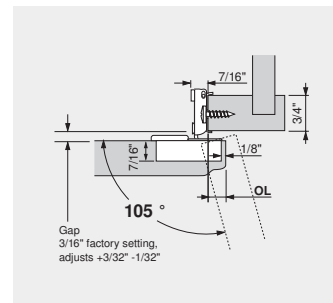
Wood screws



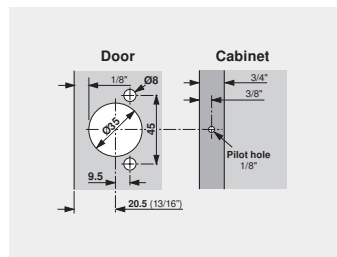
Adjustment



Dimensions



Boring pattern



Door protrusion

OL	P
3/8"	1/4"
7/16"	3/16"
1/2"	1/8"
5/8"	0
3/4"	0

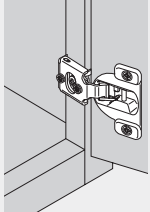
OL = Door overlay
P = Door Protrusion

Dimensions in inches. Metric where shown.
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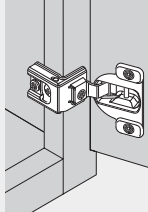
Mounting plate attachment

One piece assembly

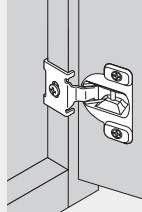
COMPACT 38N
wrap or edge



COMPACT 38C/39C
wrap around

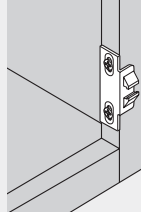


COMPACT 38.
wrap or edge

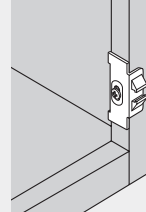


Two piece assembly

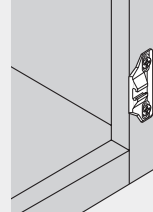
COMPACT 33
edge mount



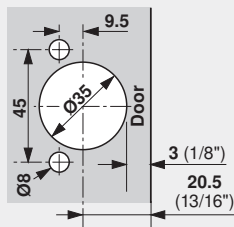
COMPACT 33
wrap around



COMPACT 33
face mount

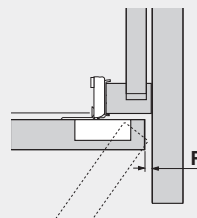


Hinge cup centerpoint



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

Minimum reveal

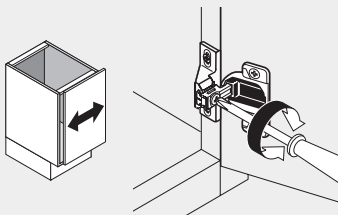


A minimum reveal per door is required to keep the door from binding and varies depending on door thickness (see Minimum reveal table for each hinge).

Three-way independent adjustment

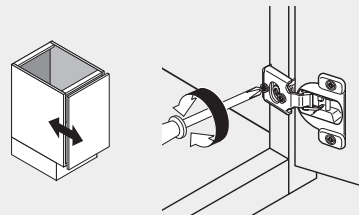
Side adjustment

Side adjustment possible on all COMPACT hinges except 38. series. COMPACT 38C/39C have cam side adjustment.



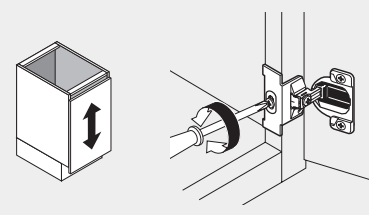
Depth adjustment

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



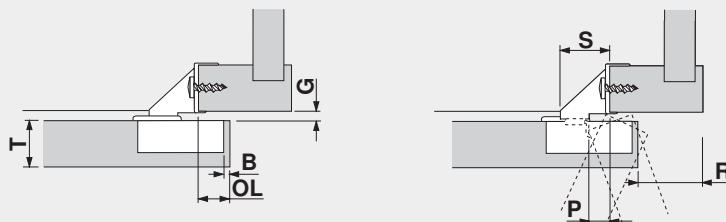
Height adjustment

All COMPACT hinges are independently height adjustable.



One piece mounting plate

Hinge dimension abbreviations

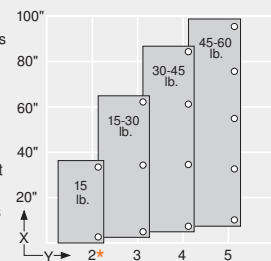


B = Boring distance
OL = Door overlay
G = Door gap
P = Door protrusion (at max. opening)
R = Reveal
S = Hinge arm protrusion
T = Door thickness

Hinges per door

X = Door height
Y = Number of hinges

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.



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

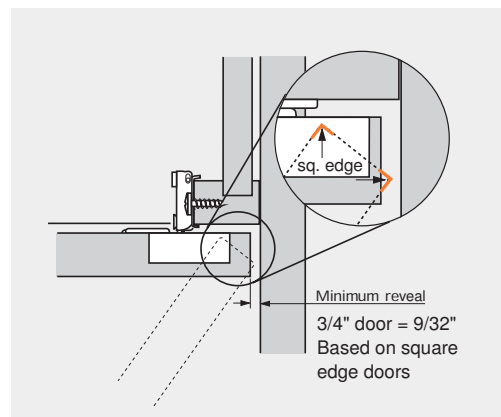
COMPACT 38N hinges



Features

- Steel, nickel plated
- 105° opening angle
- One piece assembly
- Wrap around and edge mount
- 7/16" cup depth
- +/-1/8" height adjustment
- +/-1/16" side adjustment
- +3/32" -1/32" cam depth adjustment

Minimum reveal



General specs & installation
Cover caps
BLUMOTION for doors

pages 63

page 71

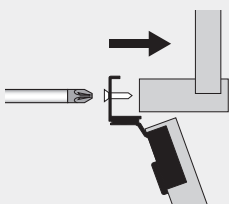
page 73

Overlay application

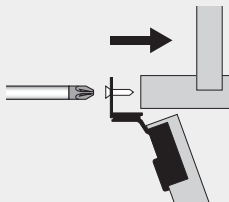
Wrap around	3/8"	7/16"	1/2"	5/8"	3/4"
Screw-on	38N355C.06	38N355C.07	38N355C.08	38N355C.10	38N355C.12
Press-in 	38N358C.06	38N358C.07	38N358C.08	38N358C.10	38N358C.12
Edge mount	1/2"				
Screw-on	38N355CE08				
Press-in 	38N358CE08				

Attachment

Wrap around



Edge mount



Wood screws



#10x3/4" pilot bore

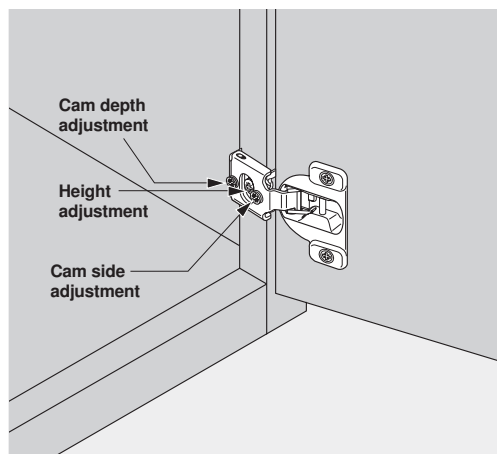
1034N



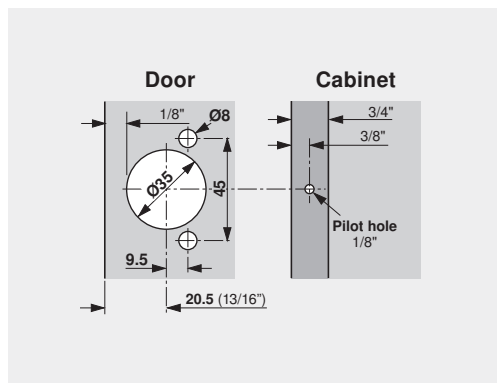
#8 x 3/4" self-drilling

834TH

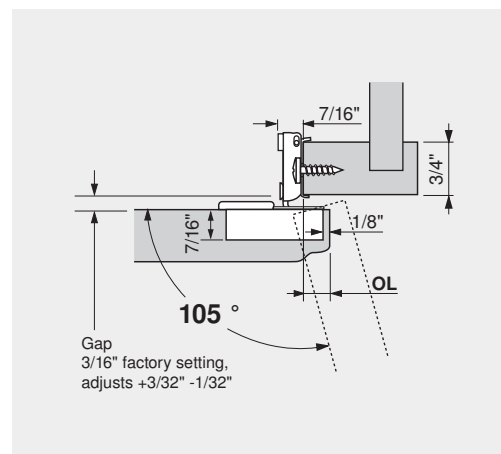
Adjustment



Boring pattern



Dimensions



Door protrusion

OL	P
3/8"	1/4"
7/16"	3/16"
1/2"	1/8"
5/8"	0
3/4"	0

OL = Door overlay
P = Door Protrusion

COMPACT

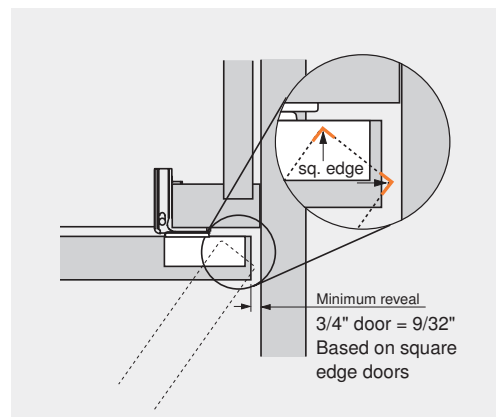
COMPACT 38C hinges



Features

- Steel, nickel plated
- 107° opening angle
- One piece assembly
- Wrap around mount
- 7/16" cup depth
- +/-1/8" height adjustment
- +/-1/16" cam side adjustment
- +3/32" -1/32" cam depth adjustment

Minimum reveal



General specs & installation
Cover caps
BLUMOTION for doors

pages 63

page 71

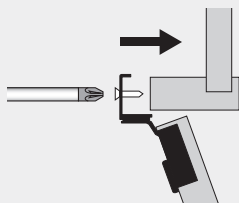
page 73

Overlay application

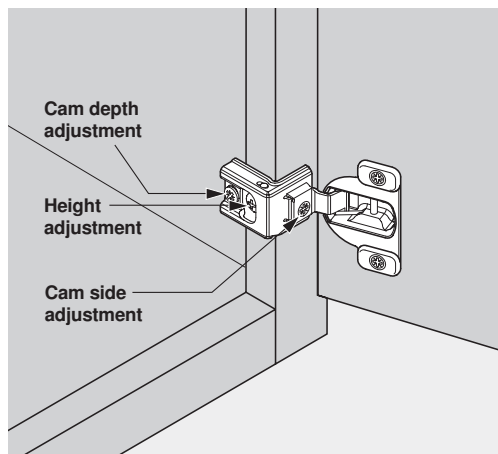
Wrap around	1"	1-1/4"	1-5/16"	1-3/8"	1-1/2"	1-9/16"
Screw-on	38C355C.16	38C355C.20	38C358C.21	38C355C.22	38C355C.24	38C355C.25
Press-in 	38C358C.16	38C358C.20	38C358C.21	38C358C.22	38C358C.24	38C358C.25

Attachment

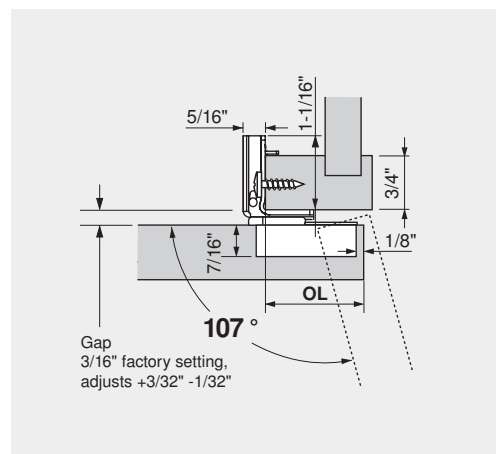
Wrap around



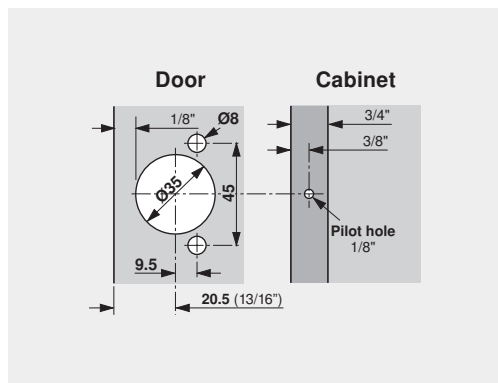
Adjustment



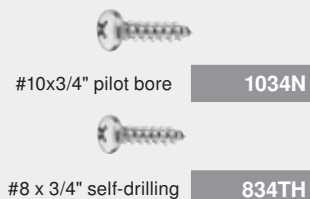
Dimensions



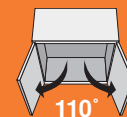
Boring pattern



Wood screws



COMPACT 39C hinges



Features

- Steel, nickel plated
- 110° opening angle
- One piece assembly
- Wrap around mount
- 1/2" cup depth
- +/-1/8" height adjustment
- +/-1/16" cam side adjustment
- +3/32" -1/32" cam depth adjustment

General specs & installation

pages 63

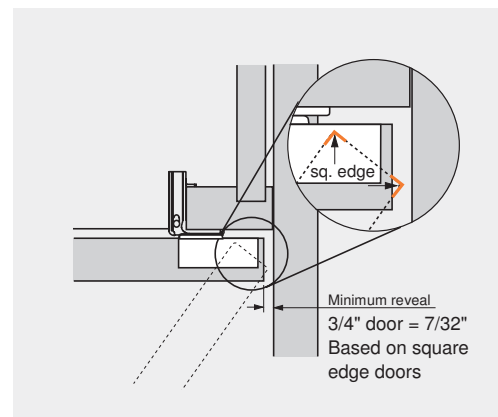
Cover caps

page 71

BLUMOTION for doors

page 73

Minimum reveal

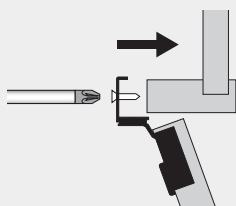


Overlay application

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

Attachment

Wrap around



Wood screws

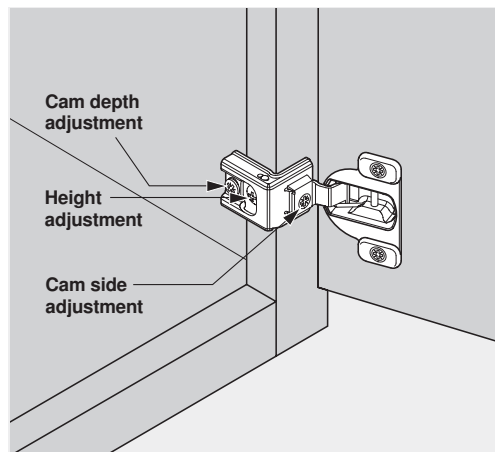
#10x3/4" pilot bore

1034N

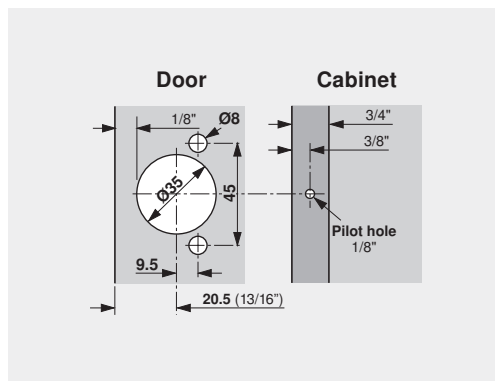
#8 x 3/4" self-drilling

834TH

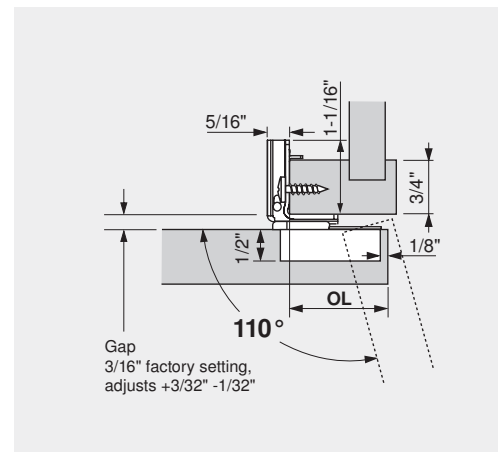
Adjustment



Boring pattern



Dimensions



COMPACT

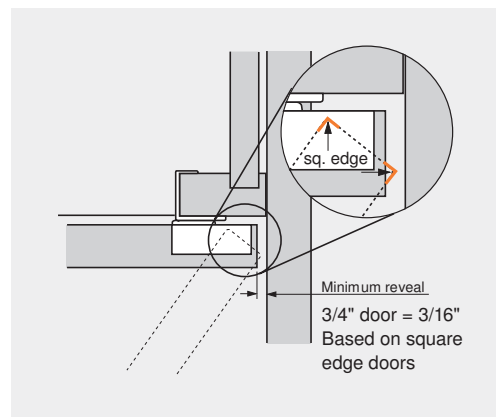
COMPACT 33 hinges



Features

- Zinc die-cast hinge and mounting plates
- 110° opening angle
- Two piece assembly
- Wrap around, edge or face mount
- 1/2" cup depth
- +/- 9/64" height adjustment
- -1/8" side adjustment only

Minimum reveal



General specs & installation
BLUMOTION for doors

page 63

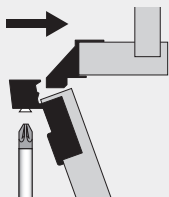
page 73

Overlay Application

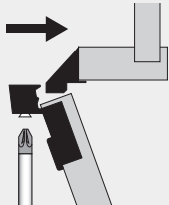
Screw-on	33.3600
Press-in 	33.3630

Attachment

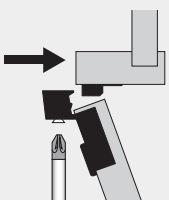
Wrap around



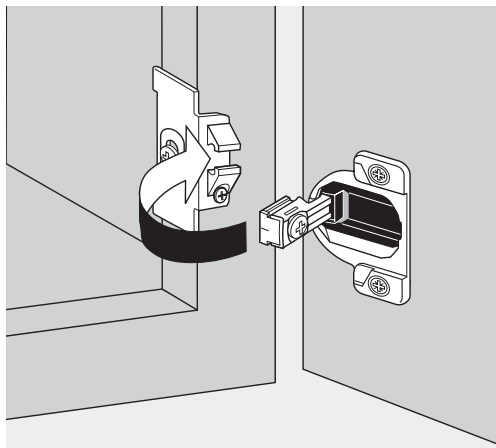
Edge mount



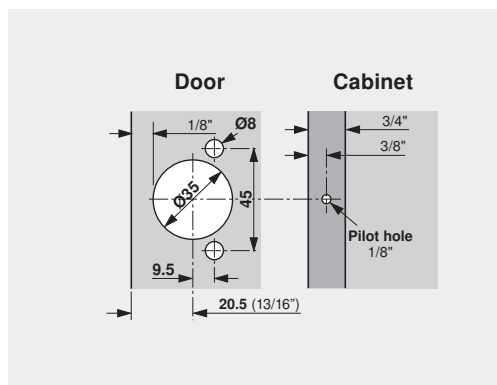
Face mount



Mounting



Boring pattern

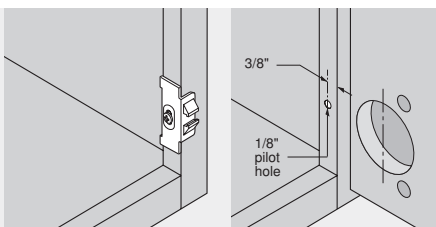


Dimensions

Vary by mounting plate (see page 68)

COMPACT 33 mounting plates

Wrap around mounting plates



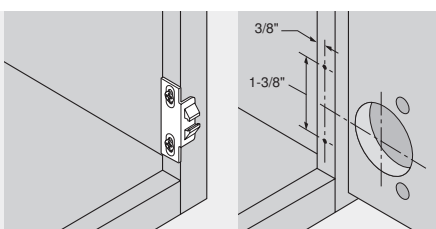
- Zinc die-cast, nickel plated
- Attached with #10 x 3/4" wood screws (**1034N**) or #8 x Self-drilling wood screws (**834TH**)
- Overlays from 1/2" to 1-5/8"

Overlays

* An additional attachment 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.

1/2"	5/8"	3/4"	1"	1-1/8"
130.2100.23	130.2100.26	130.2100.22	130.2110.02	130.2120.02
1-1/4"	1-3/8"	1-1/2"	1-5/8"	
130.2130.02	130.2140.02 *	130.2150.02 *	130.2160 *	

Edge mount mounting plates



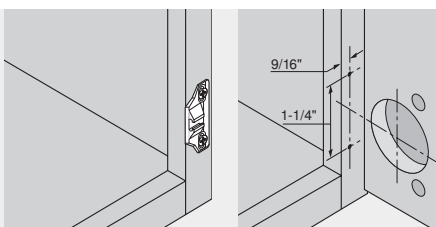
- Zinc die-cast, nickel plated
- Attached with #6 x 5/8" wood screws (**606P**)
- Overlays from 1/4" to 1-5/8"

Overlays

* An additional attachment 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.

1/4"	1/2"	5/8"	3/4"	1"
130.1100.24	130.1100.23	130.1100.26	130.1100.22	130.1110.02
1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-5/8"
130.1120.02	130.1130.02	130.1140.02 *	130.1150.02 *	130.1160 *

Face mount mounting plates



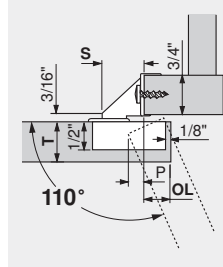
- Zinc die-cast, nickel plated
- Attached with #6 x 5/8" wood screws (**606P**)
- Overlay 1-3/8" or greater

Overlays

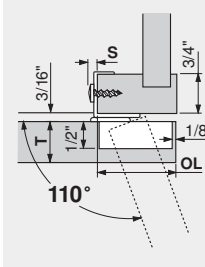
1-3/8" +
133.0240

Mounting plate specifications

Maximum overlay of 1/2" using a 130.2100.23 wrap around plate



Maximum overlay of 1-5/8" using a 130.2160 wrap around plate



Hinge arm protrusion (**S**), and door protrusion (**P**), for **wrap around** mounting plates

Mounting Plate	OL	S	P
130.2100.23	1/2"	7/8"	1/4"
130.2100.26	5/8"	3/4"	1/8"
130.2100.22	3/4"	5/8"	0
130.2110.02	1"	3/8"	0
130.2120.02	1-1/8"	1/4"	0
130.2130.02	1-1/4"	3/16"	0
130.2140.02	1-3/8"	3/16"	0
130.2150.02	1-1/2"	3/16"	0
130.2160	1-5/8"	3/16"	0

Hinge arm protrusion (**S**), and door protrusion (**P**), for **edge mount** mounting plates

Mounting Plate	OL	S	P
130.1100.24	1/4"	1-1/8"	1/2"
130.1100.23	1/2"	7/8"	1/4"
130.1100.26	5/8"	3/4"	1/8"
130.1100.22	3/4"	5/8"	0
130.1110.02	1"	3/8"	0
130.1120.02	1-1/8"	1/4"	0
130.1130.02	1-1/4"	3/16"	0
130.1140.02	1-3/8"	3/16"	0
130.1150.02	1-1/2"	3/16"	0
130.1160	1-5/8"	3/16"	0

All dimensions in inches.

Subject to technical modifications without notice. © 2004

COMPACT 38. hinges



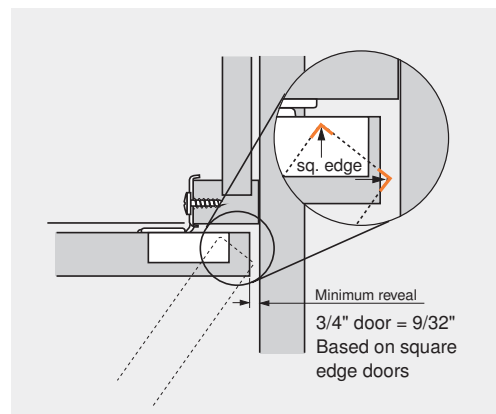
Features

- Steel, nickel plated
- 105° opening angle
- One piece assembly
- Self-closing
- Wrap around or edge mount
- 7/16" cup depth
- +/-1/8" height adjustment

General specs & installation

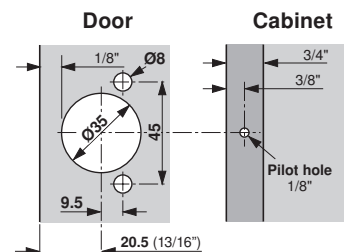
page 63

Minimum reveal



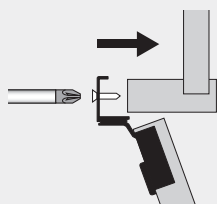
Overlay Application

Wrap around	7/16"	1/2"
Press-in 	38.3580.07	38.3580.08
Edge mount		1/2"
Press-in 		38.3580E08

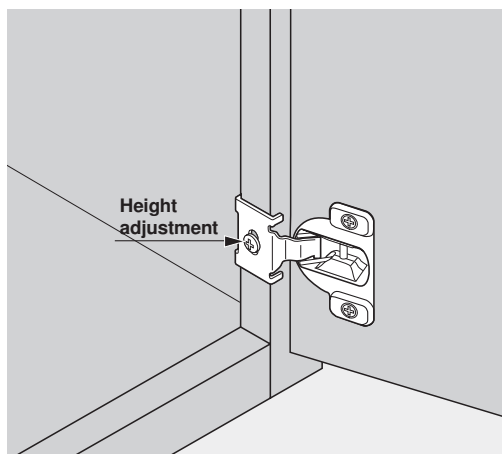


Attachment

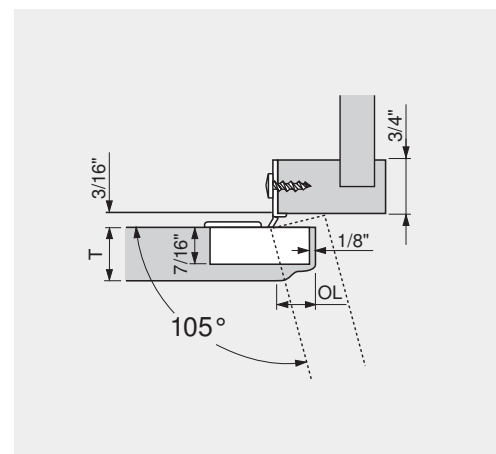
Wrap around or edge mount



Adjustment

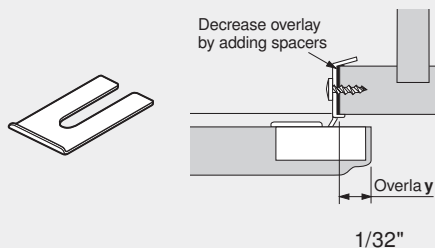


Dimensions



Distance spacer for 38. hinges

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



38. Distance spacer

36.3515

Wood screws



#10x3/4" pilot bore

1034N



#8 x 3/4" self-drilling

834TH

Door protrusion

OL	S	P
7/16"	5/16"	3/16"
1/2"	1/4"	1/8"

OL = Door overlay
S = Hinge protrusion
P = Door protrusion

COMPACT 38N cover caps



Features

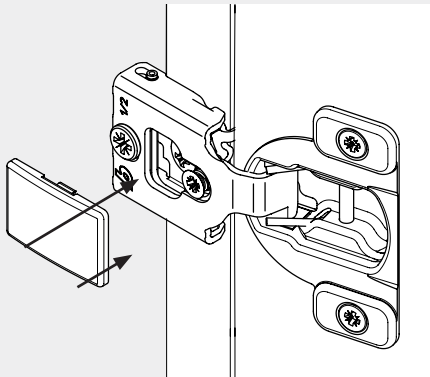
- Steel, nickel plated
- Available for the new COMPACT 38N and COMPACT 38/39C series hinges
- Clip on attachment/removal
- Available blank or with printed custom logo (minimums apply)

COMPACT 38/39C cover caps



Attachment

38N

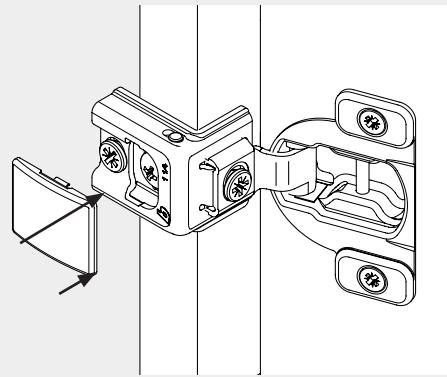


For COMPACT 38N hinges

Stainless steel cover caps

38N3508

38/39C

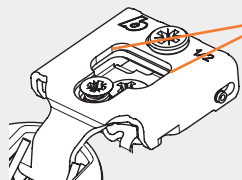


For COMPACT 38/39C hinges

Stainless steel cover caps

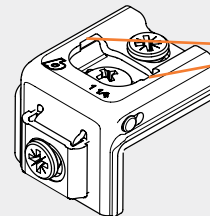
38C3508

38N cutouts



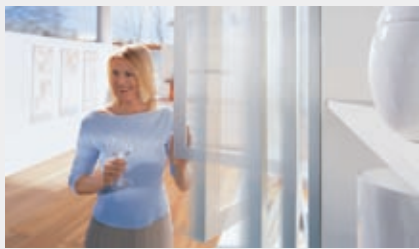
Cutouts for cover cap attachment

38/39C cutouts



Cutouts for cover cap attachment

Note: Custom logo available. Consult your Blum representative for minimum quantities and lead times on custom logos.

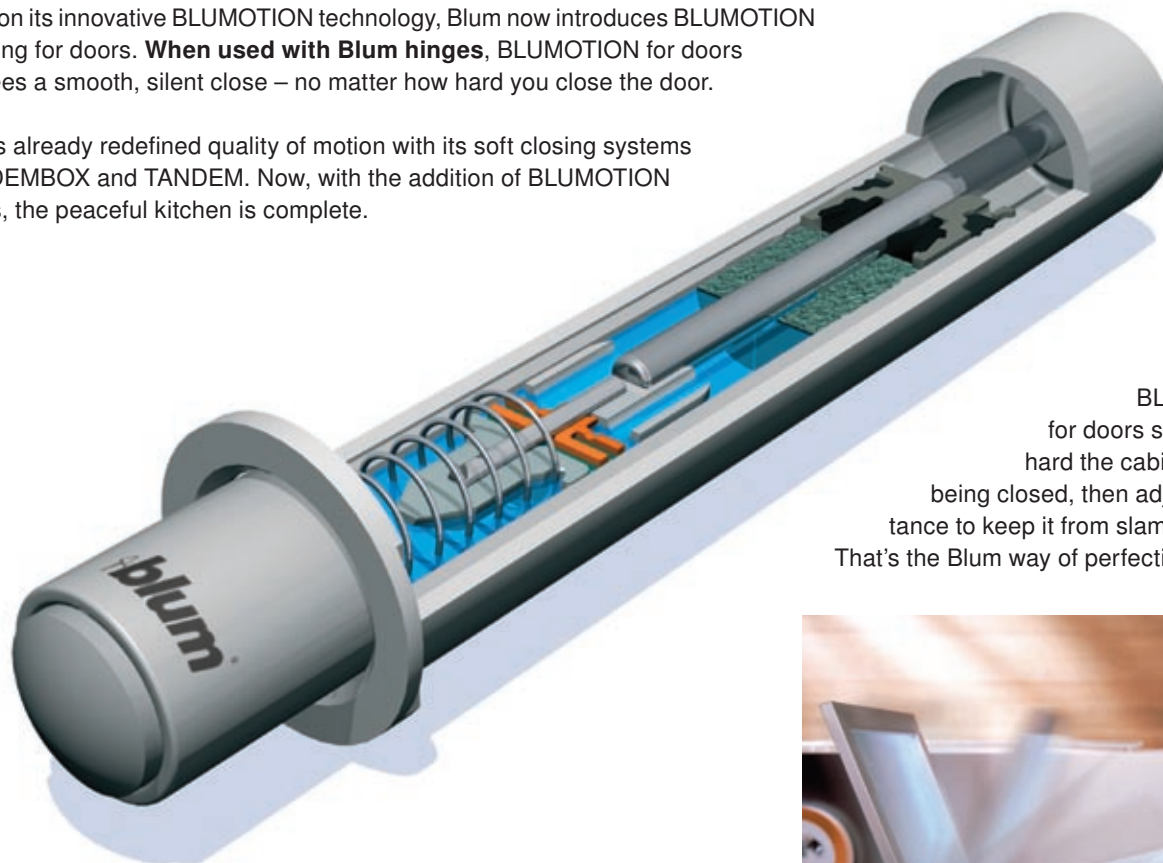


BLUMOTION for doors

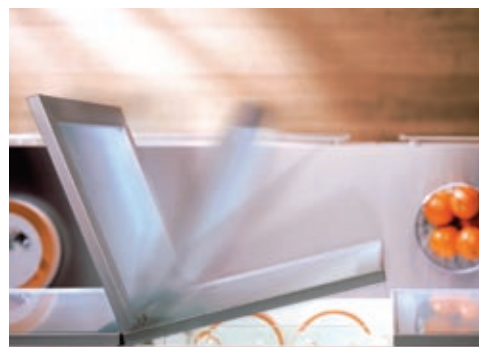


Building on its innovative BLUMOTION technology, Blum now introduces BLUMOTION soft closing for doors. **When used with Blum hinges**, BLUMOTION for doors guarantees a smooth, silent close – no matter how hard you close the door.

Blum has already redefined quality of motion with its soft closing systems for TANDEMBOX and TANDEM. Now, with the addition of BLUMOTION for doors, the peaceful kitchen is complete.



BLUMOTION for doors senses how hard the cabinet door is being closed, then adjusts resistance to keep it from slamming shut. That's the Blum way of perfecting motion.



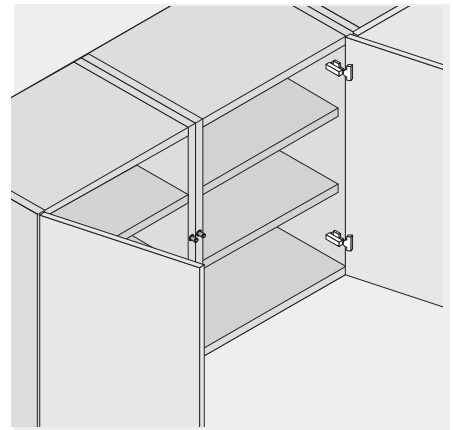
Product



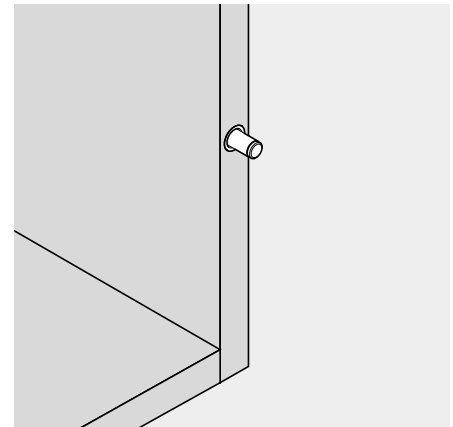
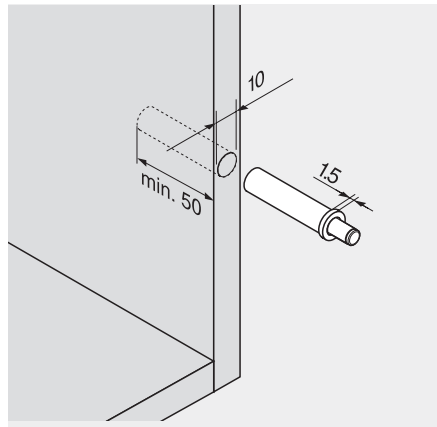
Description

- BLUMOTION soft closing system for doors with Blum hinges
- Installs into end panel (left) or with various adapter plates
- Automatically adjusts to the closing force of the door

Application



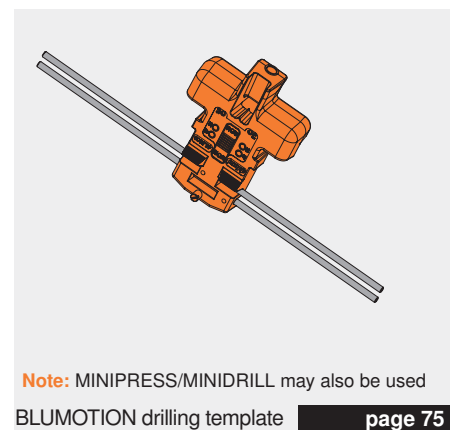
End panel installation



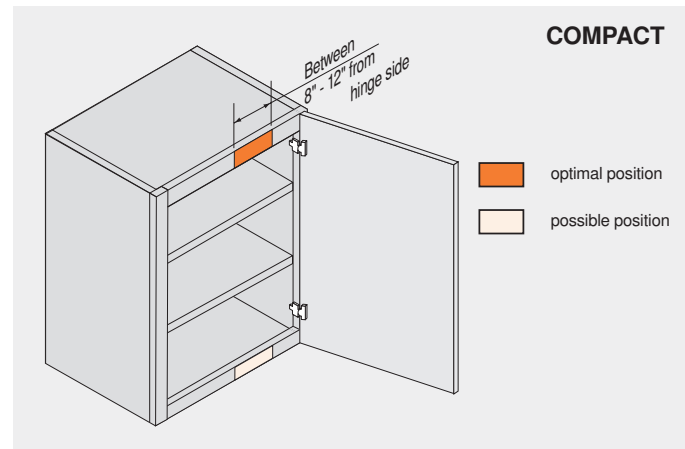
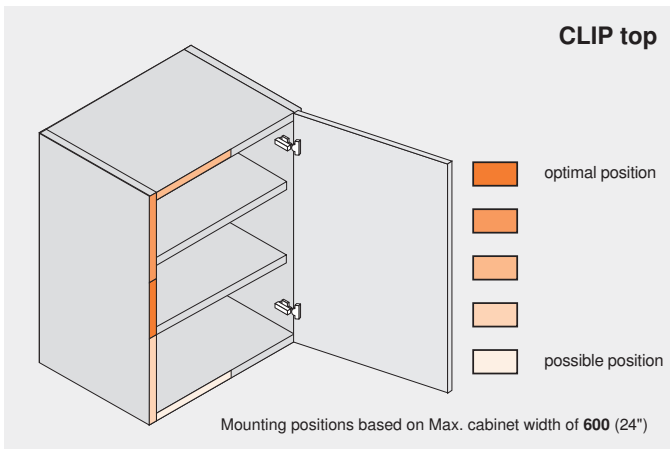
Adapter plate mounting



Assembly Aids



Mounting positions



Trial application recommended

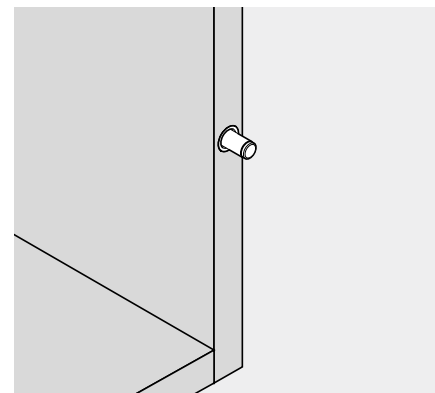
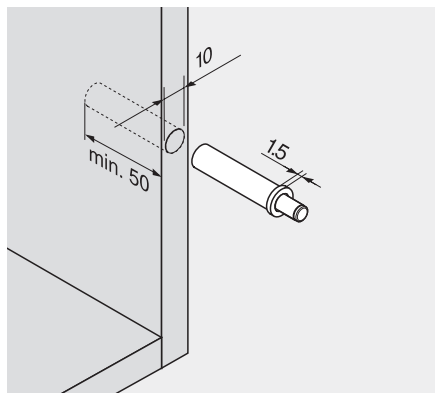
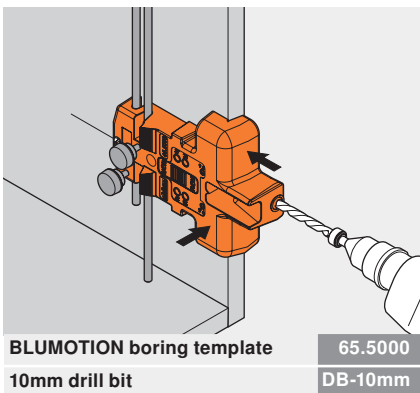
BLUMOTION for doors is fine tuned for Blum hinges. The perfect motion, smooth and silent, can only be guaranteed with Blum hinges. In most applications one BLUMOTION is sufficient. For heavier or taller

doors, the use of two BLUMOTION devices may be necessary. Based on door weight, size, width and number of hinges used, optimal mounting position may vary. Trial application is recommended.

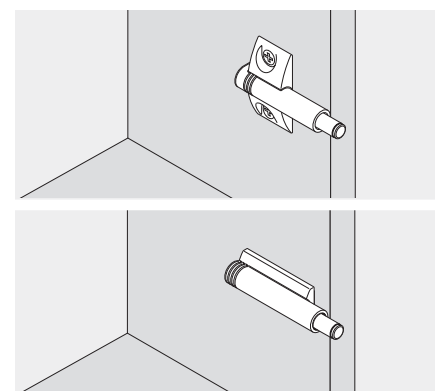
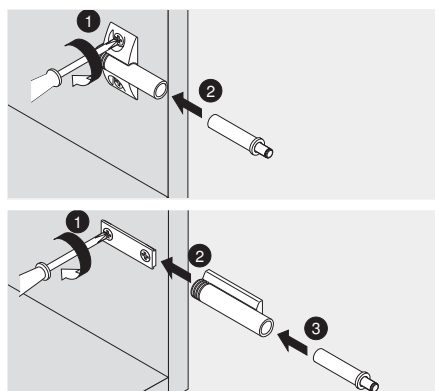
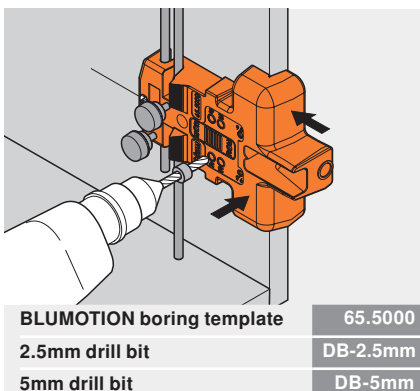
Note: For CLIP mini or glass door hinges, mount the BLUMOTION device in the center of the opening at the top or bottom.

Mounting with BLUMOTION boring template

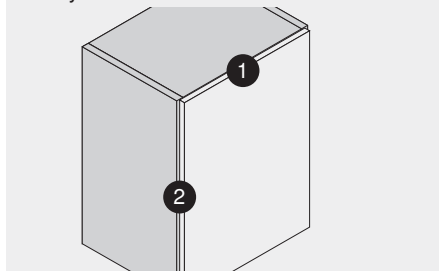
For a discreet look, BLUMOTION may be bored directly into the end panel of the cabinet.



Blum has various BLUMOTION adapter plates for applications including double doors, 32mm line boring and face frame.



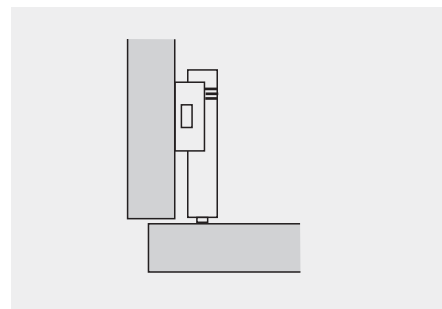
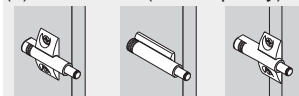
Overlay



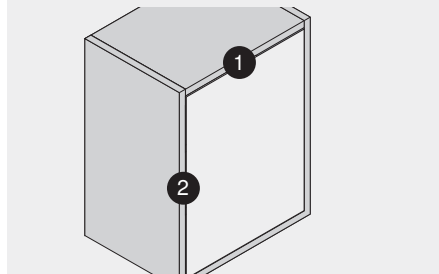
(1) Top mount



(2) Side mount (CLIP top only)



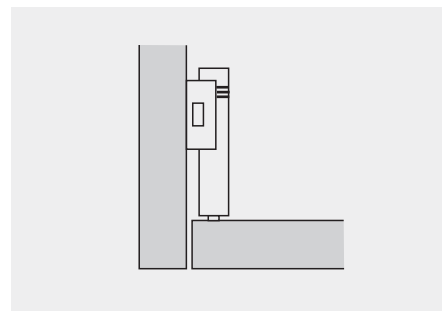
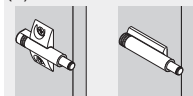
Inset



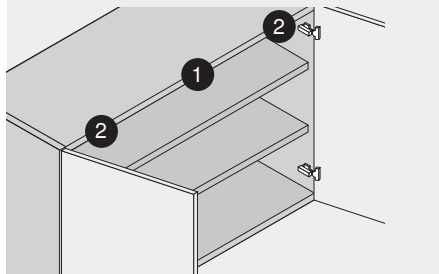
(1) Top mount



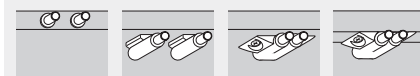
(2) Side mount



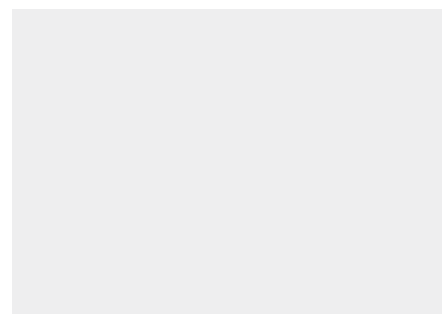
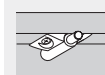
Double door cabinet



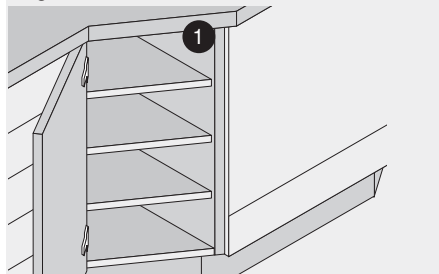
(1) Top mount for CLIP top



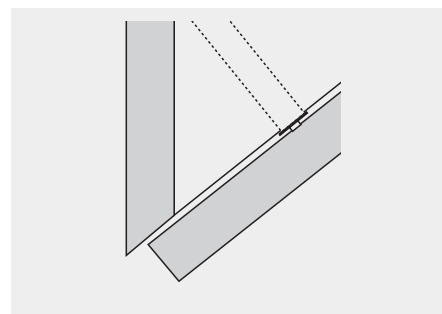
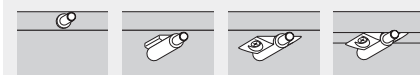
(2) Top mount for COMPACT



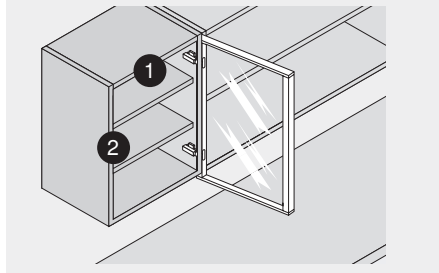
Angled cabinet door



(1) Top mount



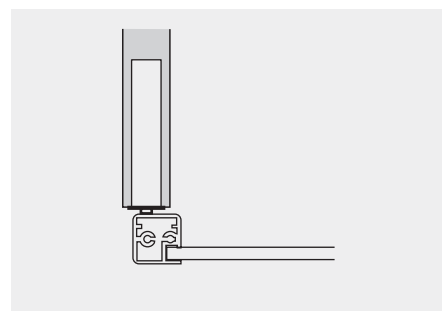
Aluminum frame door



(1) Top mount

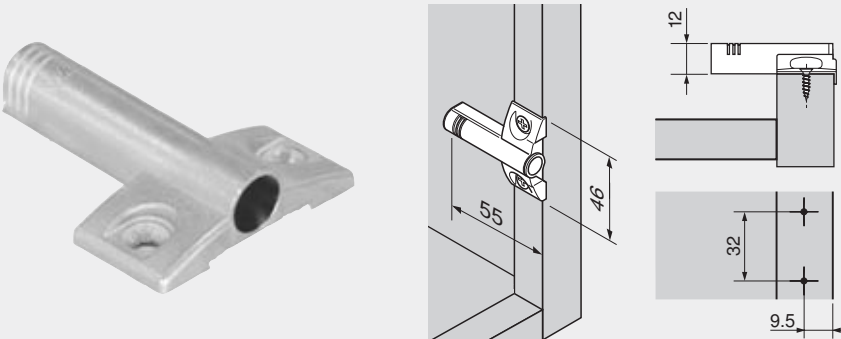


(2) Side mount



Adapter plates

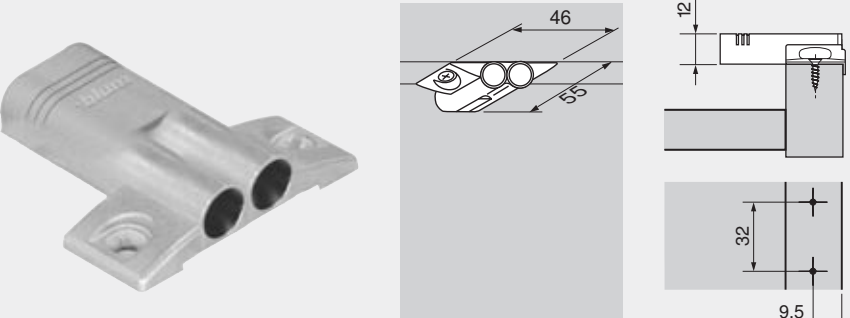
Face frame adapter



- For use with BLUMOTION in face frame applications
- Can also be used in panel cabinets
- Installs with two #6 x 5/8" wood screws (606N or 606P)
- BLUMOTION 970.1002 must be ordered separately

Zinc die-cast	970.5701
Nylon – gray	970.1701

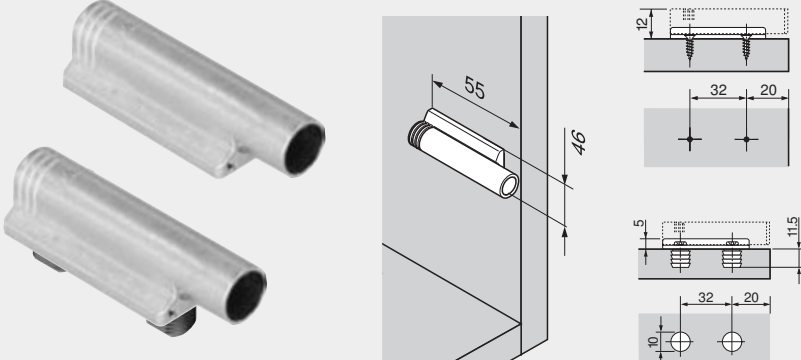
Face frame double adapter



- Ideal for butt (twin) door applications
- Can also be used in panel cabinets
- Installs with two #6 x 5/8" wood screws (606N or 606P)
- Two BLUMOTION 970.1002 must be ordered separately

Zinc die-cast	970.6701
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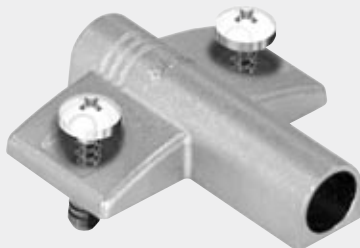
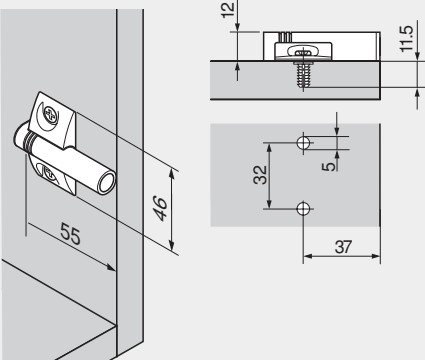
In-line adapter: screw-on & press-in



- Two piece design
- Installs with two #6 x 5/8" wood screws (606N or 606P)
- BLUMOTION 970.1002 must be ordered separately

Screw-on zinc die-cast	970.5201
Press-in zinc die-cast	970.5231
Screw-on nylon - gray	970.1201
Press-in nylon - gray	970.1231

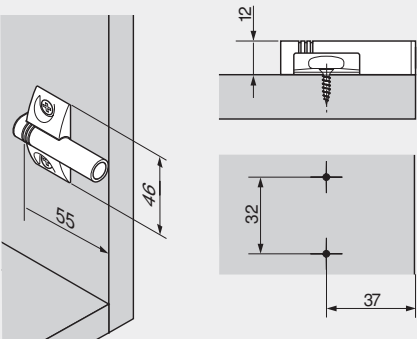
37/32mm adapter - EXPANDO

- Adapter for use with 32mm line boring and 37mm setback
- Installs with pre-attached EXPANDO screws
- BLUMOTION 970.1002 must be ordered separately

Zinc die-cast	970.55E1
Nylon – gray	970.15E1

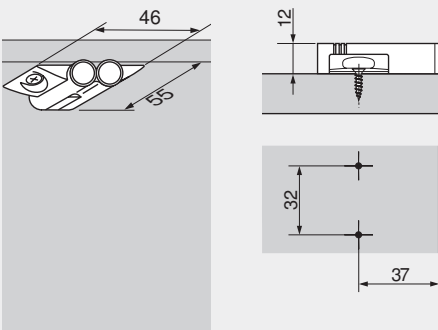
37/32mm adapter

- Installs with two #6 x 5/8" wood screws (606N or 606P)
- BLUMOTION 970.1002 must be ordered separately

Nylon – gray	970.1501
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37/32mm double adapter

- Ideal for butt (twin) door applications or heavy doors
- Installs with two #6 x 5/8" wood screws (606N or 606P)
- Two BLUMOTION 970.1002 must be ordered separately

Nylon – gray	970.2501
--------------	----------

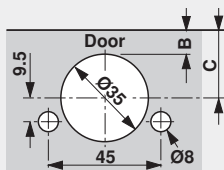
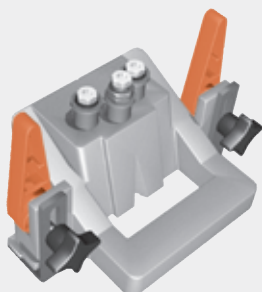




Machines & assembly aids

Templates and accessories

ECODRILL and accessories

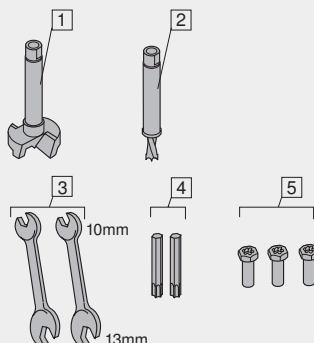
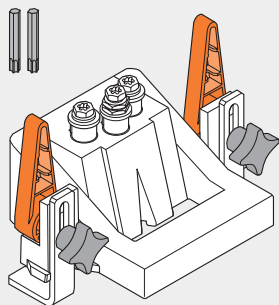


Blum boring pattern

- Simple device for boring Blum hinge pattern
- Driven by electric/cordless drill (14v or better)
- Each drill bit is driven separately and retracts automatically
- Variable boring distance from 2mm to 8mm
- Clamps to various door thicknesses up to **40mm** (1-9/16")
- Includes drill bits (pre-installed) and two Torx driver bits

ECODRILL	M31.1000
Replacement Ø35mm bit	M31.ZB35.02
Replacement Ø8mm bit	M31.ZB08.03
Tool set	MZW.1300

ECODRILL and Torx bits (included)



Replacement drill bits

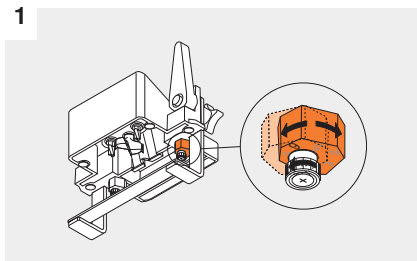
1	Ø35mm drill bit
2	Ø8mm drill bit

Tool Set

3	2 wrenches
4	2 Torx driver bits
5	3 Torx chucks

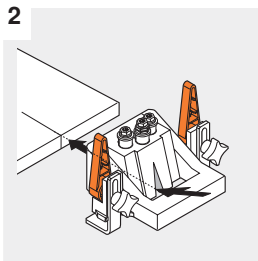
Using the ECODRILL

1



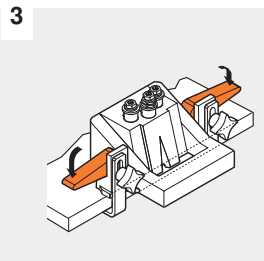
Set boring distance cams by rotating to the desired position

2



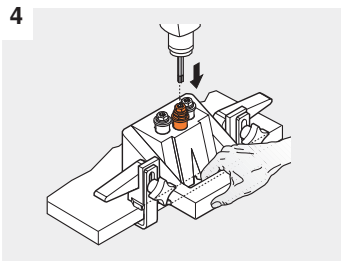
Align ECODRILL body with hinge center line marked on the door

3

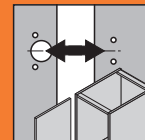


Secure ECODRILL to the door by rotating the clamp arms

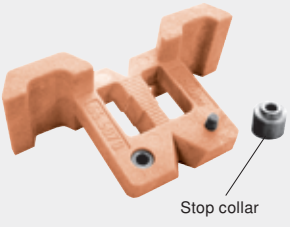
4



With the Torx bit, bore the three holes separately

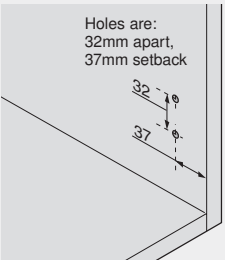


ECOJIG boring template for mounting plates



Stop collar

Holes are:
32mm apart,
37mm setback

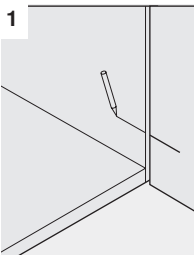


- Use to bore Ø5mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Ø5mm stop collar included

ECOJIG	65.5070
Ø5mm bit	DB-5mm

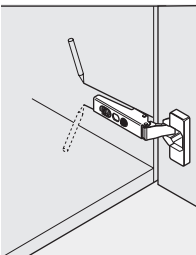
Using the ECOJIG

1



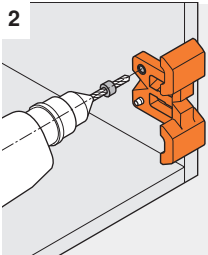
Mark hinge center line, or hinge arm outline, on cabinet side panel

2



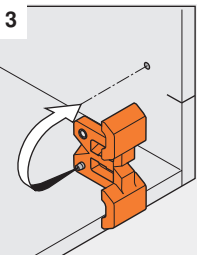
Align template with marks and drill top Ø5mm hole

3



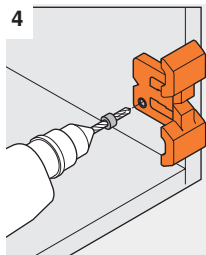
Flip template over and seat locator pin into top hole

4



Drill the bottom Ø5mm hole

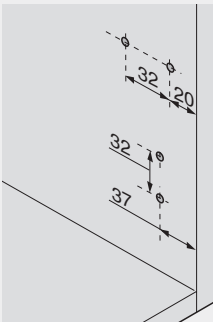
5



Install INSERTA, EXPANDO or system screw mounting plate

Mounting plate template

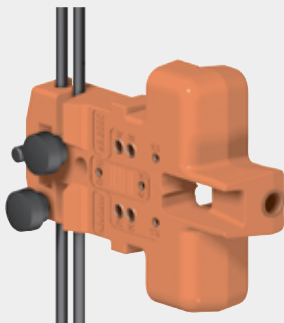


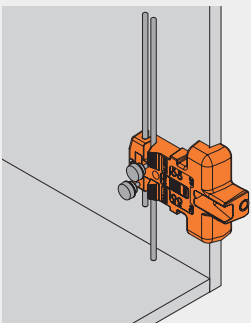


- Use with CLIP or MODUL mounting plates on overlay applications on panel cabinets
- Simple location of mounting plate screw positions
- Transfers measurements from door to cabinet
- If mounting plates are standard, multiple templates can be attached to a wooden strip
- Pilot bores Ø2.5mm holes for wood screws
- For wing plates or 175H5100.05 In-line plate

Mounting plate template	65.5300
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BLUMOTION for doors boring template



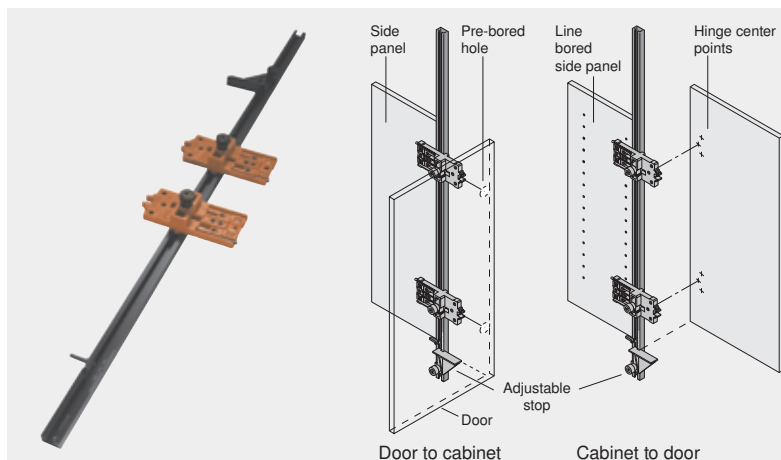


- Simple device for pre-boring for BLUMOTION for doors
- 10mm diameter bushing for edge boring panel
- Templates for all BLUMOTION adapters
- Vertical guides for setting height
- Includes 10mm, 5mm, and 2.5mm stop collars
- Can also be used to bore for wing and in-line mounting plates

BLUMOTION boring template	65.5000
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Templates and accessories

QUICKFIX

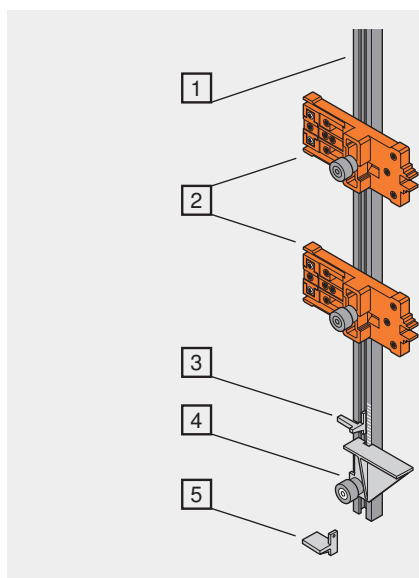


- Simple device to locate hinge and plate positions
- Transfer positions from door-to-cabinet and from cabinet-to-door
- Positions can be transferred from either assembled or unassembled cabinets
- Adjustable stop for various door overlays has calibration to simplify set-up
- For use with wing or in-line mounting plates

QUICKFIX

65.7500.01

Specifications



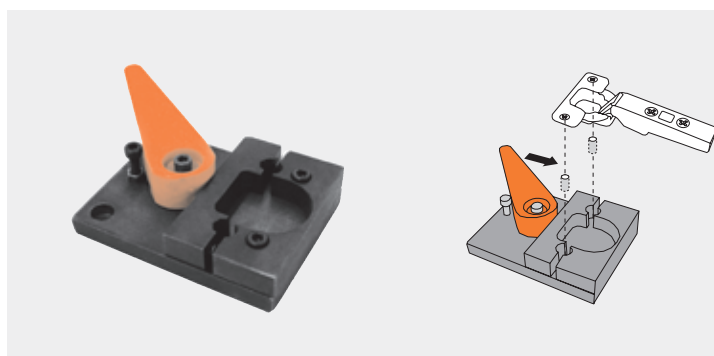
QUICKFIX parts included

- | | |
|---|--|
| 1 | Rail, 1 meter long |
| 2 | Template with marking pin (2 included) |
| 3 | Fixed inner stop |
| 4 | Adjustable overlay stop |
| 5 | Fixed outer stop |

Accessories for QUICKFIX

Additional CLIP template	65.7510.01
MODUL template	65.9510
2.2 meter rail	65.7590
Ø5mm drill bit	DB-5mm

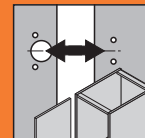
Manual doweling template



- Template for manually attaching/removing dowels for CLIP top, CLIP, COMPACT and MODUL hinges
- Can be mounted to a work surface for stability
- Works for all Blum hinge and dowel combinations.
- See page 86 for dowel reference

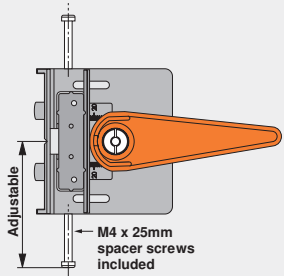
Manual doweling template

69.3600



PlateMate





Adjustable

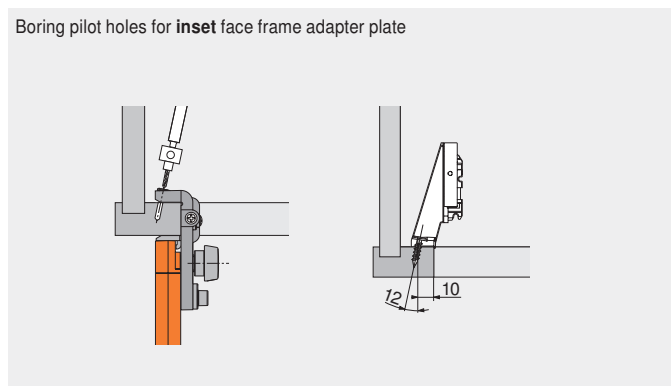
M4 x 25mm spacer screws included

- 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:
 - 2.5mm pilot bit and drill bit extension
 - reversible bushing insert for 32mm hole spacing (for 175L6xxx)
 - reversible bushing insert for 40mm hole spacing (for 175H6xxx)
 - bushings reverse from 9.5mm to 12.7mm setback

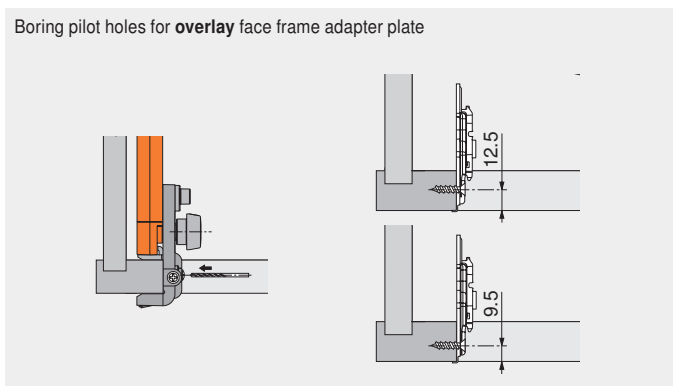
PlateMate	65.5030.01
Ø2.5mm drill bit	DB-2.5mm

Using the PlateMate

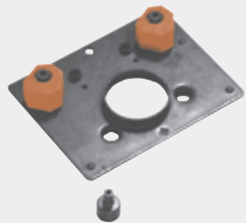
Boring pilot holes for **inset** face frame adapter plate

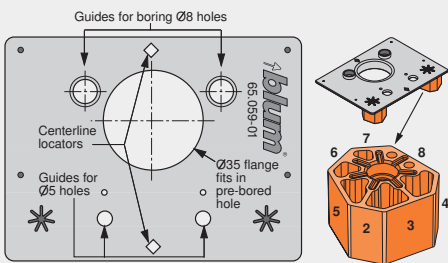


Boring pilot holes for **overlay** face frame adapter plate



INSERTA boring template





Guides for boring Ø8 holes

Centerline locators

Guides for Ø5 holes

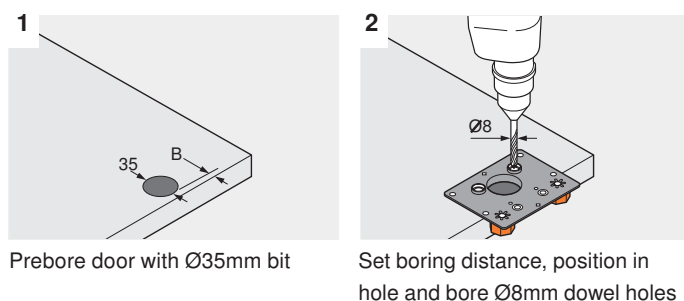
Ø35 flange fits in pre-bored hole

Two rotating cams provide seven boring settings for hinge cups

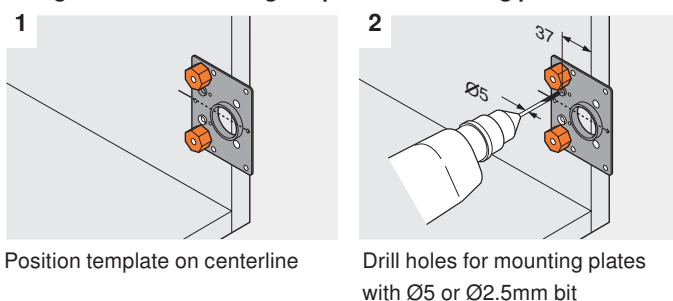
- For installing Blum hinges with INSERTA or EXPANDO cups
- For boring Ø8mm dowels after Ø35mm hole is bored
- Boring distance adjusts from 2 to 8mm
- Template for boring Ø5mm holes for system screw mounting plates
- Includes drill bushing to pilot bore Ø2.5mm for wood screw plates

INSERTA boring template	65.0590
Ø8mm drill bit	DB-8mm
Ø5mm drill bit	DB-5mm

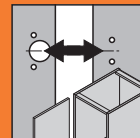
Using the INSERTA boring template for hinges



Using the INSERTA boring template for mounting plates

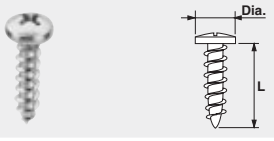


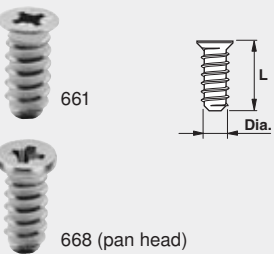
Screws, bumpers and POZI driver



Screws

Wood screws		Head diameter	Length	Head	Part No.
		#6	13 (1/2")	#2 Phillips	6062N
		#6	16 (5/8")	#2 Phillips	606N
		#6	16 (5/8")	#2 POZI	606P
		#6	19 (3/4")	#2 Phillips	6064N
		#7	16 (5/8")	#2 Phillips	707N
		#7	19 (3/4")	#2 Phillips	7074N

Truss and Panhead screws		Head diameter	Length	Head	Part No.
		#8	19 (3/4")	#2 Phillips	834TH
		#10	19 (3/4")	#2 Phillips	1034N

System screws		Hole diameter	Length	Head	Part No.
		5	10 (13/32")	#2 POZI	661.1000.HG
		5	11.5 (15/32")	#2 POZI	661.1150.HG
		5	13 (1/2")	#2 POZI	661.1300.HG
		5	14.5 (9/16")	#2 POZI	661.1450.HG
		5	20 (25/32")	#2 POZI	661.2000.HG
		5	25 (1")	#2 POZI	661.2500.HG
		5	30 (1-3/16")	#2 POZI	661.3000.HG
		5	14.5 (9/16")	#2 POZI pan head	668.1450.EH

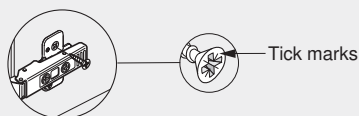
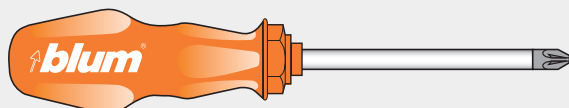
*Replacement screw for plates with premounted system screws

Twin application screws		Hole diameter	Length	Type	Head	Range	Part No.
		5	14 (9/16")	Male	Slot	-	612.2010
		5	20 (25/32")	Female	Slot	16-20	612.2020
		5	24 (15/16")	Female	Slot	20-24	612.2420

Bumpers

Adhesive backed		Diameter	Thickness	Color	Part No.
		7.5mm	2mm	Clear	FX4041
		12mm	3.5mm	Clear	SJ5312

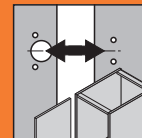
POZI screwdriver and bits



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

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

Dowel cross-reference

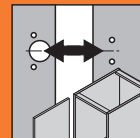


Blum press-in and EXPANDO dowels simplify installation. Use the chart below to find the proper hinge - dowel combination.

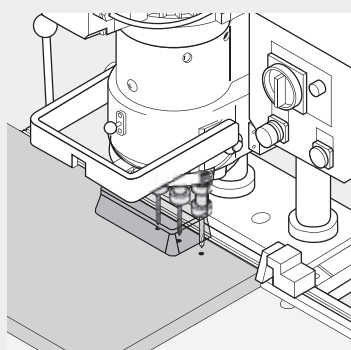
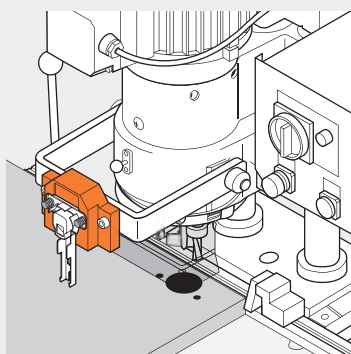
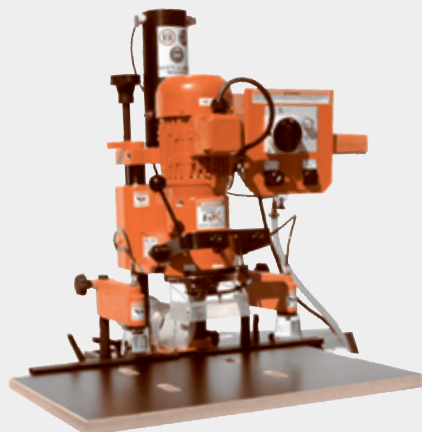
Hinge			70.0532	34.3582.01	70.0582	70T5582
All dowels for Ø8mm hole and require the 608.1200 screw 						
Type	Series	Cup material	Dowels without flange	Dowels with flange		
COMPACT	33	Zinc	●			
	38A	Steel	○	●		
	38C / 39C		○	●		
	38N		○	●		
	38.		○	●		
CLIP top and CLIP	100°/107°	Steel	○		●	
	120°/120°+		○			●
	170°		●			
	Thick door		○		●	
	Zero protrusion		●			
	Diagonal 45°		○		●	
	Blind corner		○		●	
	Bi-fold	Zinc	●			
MODUL	100°	Steel	○		●	
	170°		●			
	Blind corner		○		●	

- = recommended
- = optional

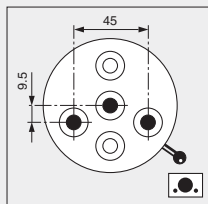
All dowels for Ø5mm hole (Blum mounting plates)			Dowels				Screws
							 618.1500 618.1250
Type	Series	Application					
EXPANDO	174H7100E	std. application	174H7100E8				618.1500
	174E6100.01			174E6102			
	174H710ZE	twin application			174H710E8Z		618.1250
	174E610Z					174E610Z4	



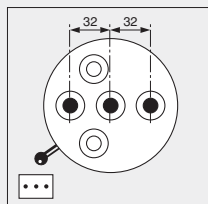
MINIPRESS



Blum hinge pattern



Blum mounting plate pattern



Features:

- 5-spindle swiveling boring head
- Pneumatic moisture trap
- Adjustable air regulator
- Adjustable stroke controls
- Adjustable fencing system
- Boring depth adjustment
- Pneumatic hold down clamps
- Swing arm for insertion ram
- Dust evacuation jet
- Dust collection outlet

MINIPRESS-includes:

- Center ruler
- Work table
- (2) narrow ruler stops
- insertion ram
- (2) fixed boring depth stops
- Tool kit
- Replacable Break-away clutch

440V / 3 phase

M51P1005.US

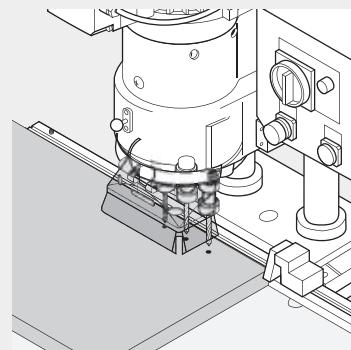
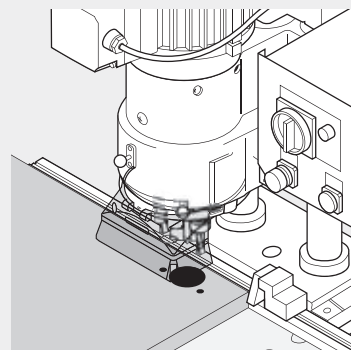
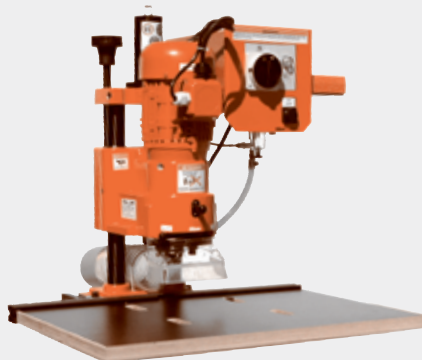
220V / 3 phase

M51P1004.US

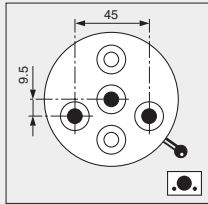
220V / 1 phase

M51P1053.US

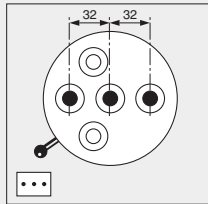
MINIDRILL



Blum hinge pattern



Blum mounting plate pattern



Features:

- For boring only
- 5-spindle swiveling boring head
- Pneumatic moisture trap
- Adjustable air regulator
- Adjustable stroke controls
- Adjustable fencing system
- Boring depth adjustment

MINIDRILL includes:

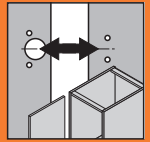
- Center ruler
- Work table
- (2) narrow ruler stops
- (2) fixed boring depth stops
- Tool kit
- Replacable Break-away clutch

220V / 3 phase

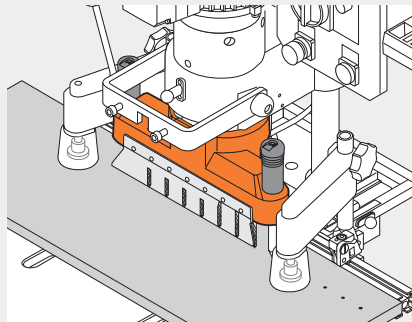
M51P1004.50

220V / 1 phase

M51P1053.50

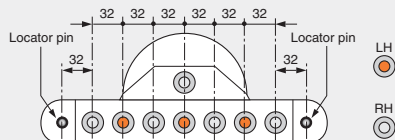


7-Spindle head



7-Spindle head features:

- Bores 7 holes, spaced 32mm apart, parallel to fence
- Retractable index pins located on both sides permits continuous boring
- Easily mounts to the MINIPRESS
- Includes setup template and distance spacers for the MINIPRESS stroke
- For use with MINIPRESS only
- Max. distance from edge of panel = **96mm**



7-Spindle head

MZK.1000.US

Bits required separately:

(4) Ø5mm right hand drill bits

M01.ZB05.D2 R

(3) Ø5mm left hand drill bits

M01.ZB05.D3 L

Insertion rams

MZM.0019



MZM.0018



MZM.0011



MZM.0010



For 107/120 hinges

MZM.0010

For 100/thick door hinges

MZM.0011

For 170 hinges

MZM.0018

For In-line mtg. plates

MZM.0050

For blind corner hinges

MZM.0019

For diagonal 45 hinges

MZM.0021

For bi-fold hinges

MZM.0021

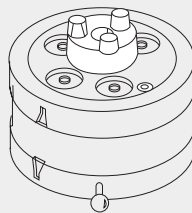
For CLIP top zero-protrusion

MZM.0022

For COMPACT hinges

MZM.0037

Replacement break-away clutch

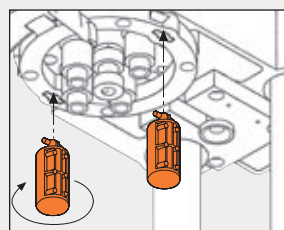


- Prevents permanent damage to the MINIPRESS or MINIDRILL gearbox from misuse
- Only for use with the New M51P10xx.xx series machines

Replacement break-away clutch

MZK.200-90

Fixed depth stops

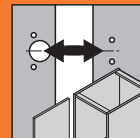


Sets boring depth of bits no matter what panel or door thickness is used.

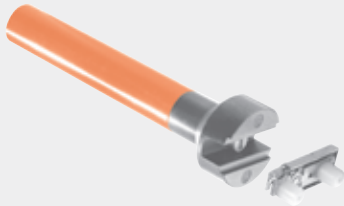
- For 13mm bore depth, adjust drill bits to **57mm** length

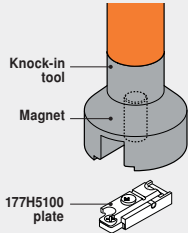
Fixed depth stops for 13mm (1/2")

M30.1304



Mounting plate knock-in tool





- Magnet holds mounting plate making insertion easier
- Made of hardened steel with durable acrylic handle
- For use with mounting plate: 177H5100 and 175H5130

Knock-in hand tool

65.6100

Drill bits



Ø5mm



Ø8mm



Ø10mm



Ø35mm



T108



VPB-5



Chuck for DB-1/8
Use to pilot bore for screw-on hinges with MINIPRESS or MINIDRILL



Twist drill bit

Ø5mm drill bit (RH)	M01.ZB05.D2 R
Ø5mm drill bit (LH)	M01.ZB05.D3 L
Ø8mm drill bit (LH)	M01.ZB08.03 L
Ø10mm drill bit (RH)	M01.ZB10.02 R
Ø10mm drill bit (LH)	M01.ZB10.03 L
Ø20mm drill bit (RH)	M01.ZB20.02 R
Ø25mm drill bit (RH)	M01.ZB25.02 R
Ø35mm drill bit (RH)	M01.ZB35.02 R

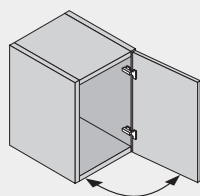
Countersink drill bits	
Ø8mm drill bit (LH)	T108-8mm L
Ø10mm drill bit (RH)	T108-10mm R
Ø10mm drill bit (LH)	T108-10mm L

Twist drill bits - high speed steel	
VPB-5 centering bit	VPB-5
1/8" left	DB-1/8
2.5mm right	DB-2.5mm
5mm right	DB-5mm
8mm right	DB-8mm
10mm right	DB-10mm
10mm chuck for DB-1/8	DB-10 x 1/8

Hinge and mounting plate testing



All Blum products undergo strict quality control procedures through all stages of production. All concealed hinges are designed for indoor use only. Careful attention must be paid to installation or operating instructions when using Blum products (see catalogs or operating manuals for all technical information).



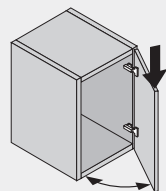
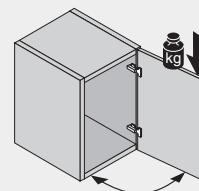
Cycle test

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



Cycle test with load

11 lbs. extra weight applied for 100,000 opening and closing cycles.



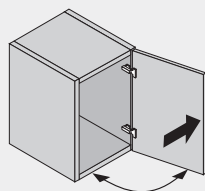
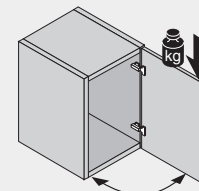
Static load test

67 lbs. applied 10 times for 5 seconds each at 45 degree opening angle.



Dynamic load test

44 lbs. extra weight applied for 50 opening and closing cycles.



Over push test

11 lbs. applied 10 times for 5 seconds each.



All Blum hinges and mounting plates must pass these tests without showing a measurable reduction in performance or deviation in adjustment position. Testing standards vary between products and applications.

All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements.

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- Machine and assembly aids
- METABOX drawer system
- ORGA-LINE drawer dividing system
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- TANDEM concealed runners
- TANDEMBOX drawer system



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