



## Concealed hinges

Premium hinge systems for cabinet doors

[blum.com](https://www.blum.com)

 **blum**<sup>®</sup>

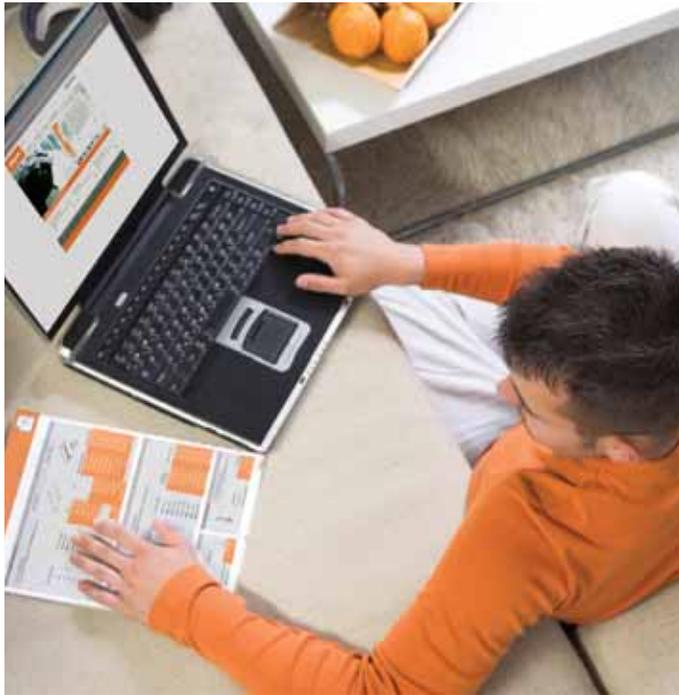
### Simple planning and ordering

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

### Hinge planning tools

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

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



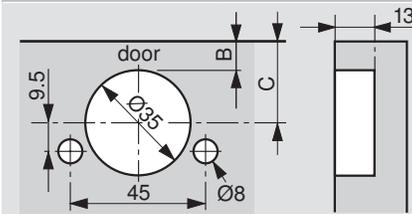
For more information on Concealed hinges please refer to our website at [www.blum.com/us/en/01/#2](http://www.blum.com/us/en/01/#2)

Or simply scan the quick reference code below



## Quick reference

### Hinge cup centerpoint



### C = cup centerpoint

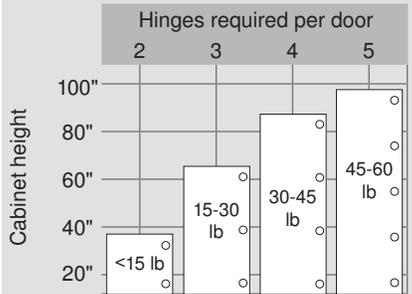
|        |        |      |        |        |      |
|--------|--------|------|--------|--------|------|
| 20.5   | 21.5   | 22.5 | 23.5   | 24.5   | 25.5 |
| 13/16" | 27/32" | 7/8" | 15/16" | 31/32" | 1"   |
| 3      | 4      | 5    | 6      | 7      | 8    |

B = Boring distance

### Conversion chart

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

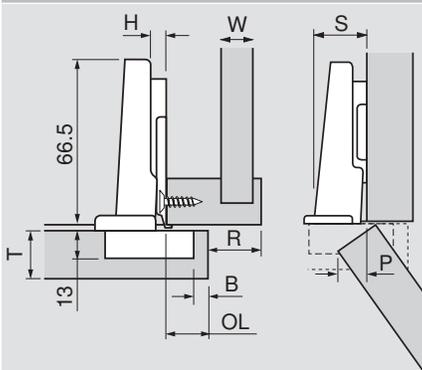
### Hinges per door



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

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

### Hinge abbreviation key



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

### Fixed distance (FD)

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

# Elegant design, superior function

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

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

 **blum**





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## Product overview



### CLIP top BLUMOTION

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



### CLIP top

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



### CLIP

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



### Angled hinges

Angled hinges provide a tremendous array of possibilities for the professional cabinet designer. Specifically designed for panel constructed (frameless) cabinets, the system accommodates cabinet front angles from  $-45^{\circ}$  to  $+45^{\circ}$ , in  $5^{\circ}$  increments.



### CLIP accessories

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



### CLIP mounting plates

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

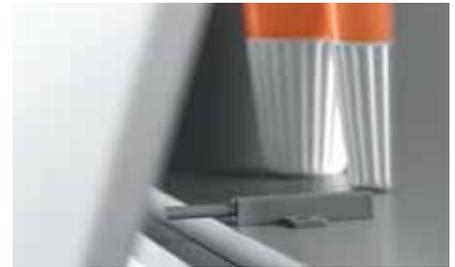
## BLUMOTION for doors

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



## TIP-ON for doors

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



## COMPACT BLUMOTION

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



## COMPACT accessories

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



## Assembly aids

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



## Machines and accessories

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



### Conditions for tests

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

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

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

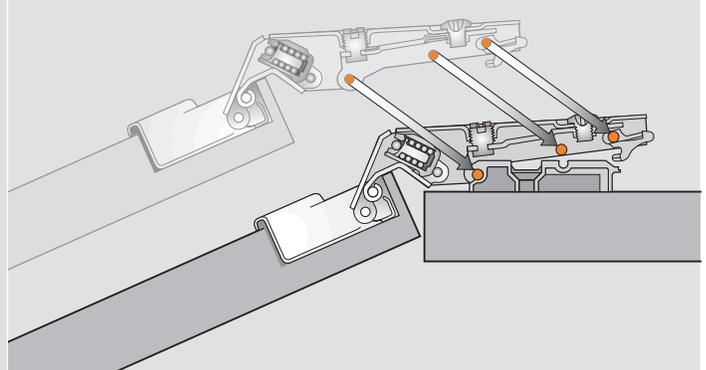
| Cycle test |  |  |   |  |
|------------|--|--|---|--|
|            | <b>Without load</b> <ul style="list-style-type: none"> <li>200,000 opening and closing cycles for all CLIP hinges</li> </ul> |  | <b>With load</b> <ul style="list-style-type: none"> <li>11 lb extra weight is applied for 100,000 opening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

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

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

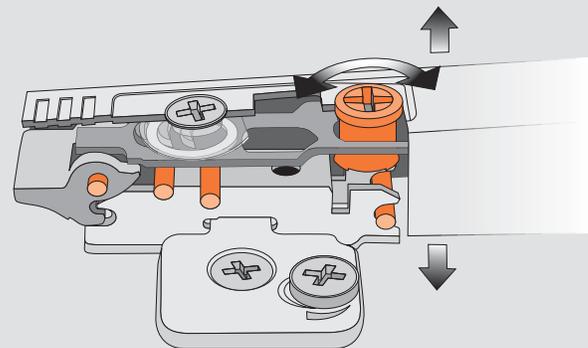
**Blum three-point contact**

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



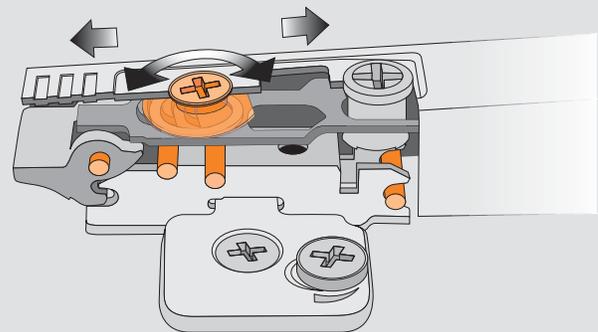
**Side adjustment**

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



**Spiral tech depth adjustment**

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



**Wide variety of mounting plates**

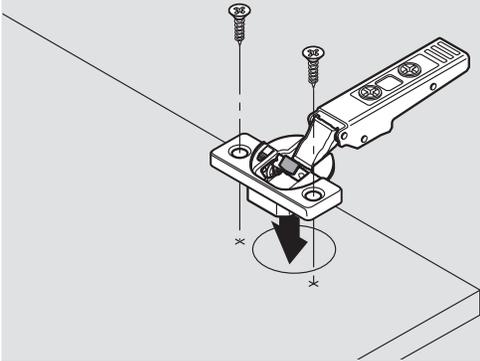
Blum has mounting plates for every application from wing plates with pre-attached screws or dowels and cam height adjustable face frame adapters, to sleek in-line mounting plates.



### Hinge-to-door attachment

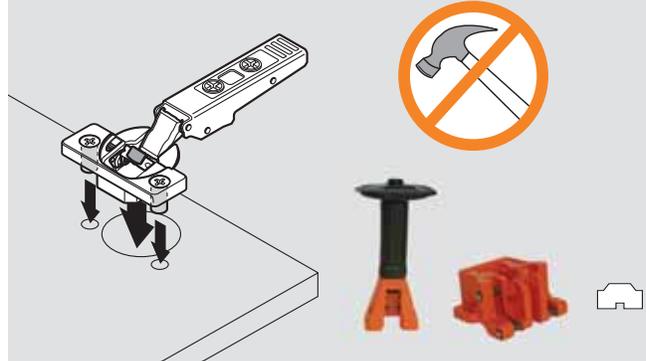
#### Screw-on

Use #6 wood screws



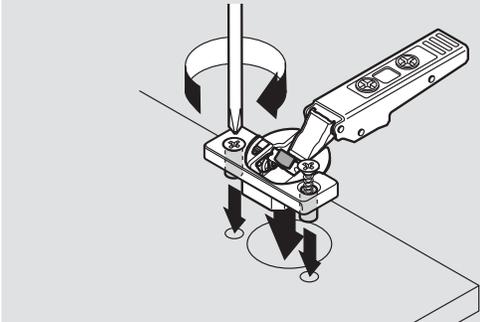
#### Press-in

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



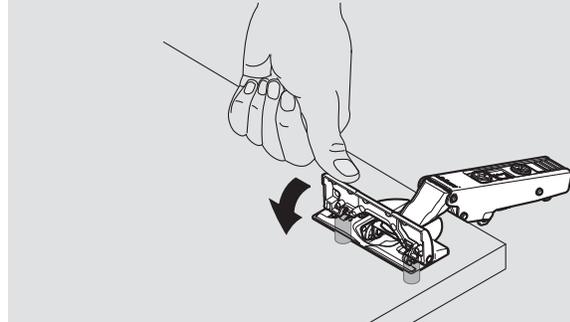
#### EXPANDO

Pre-attached expanding Ø8 mm dowels



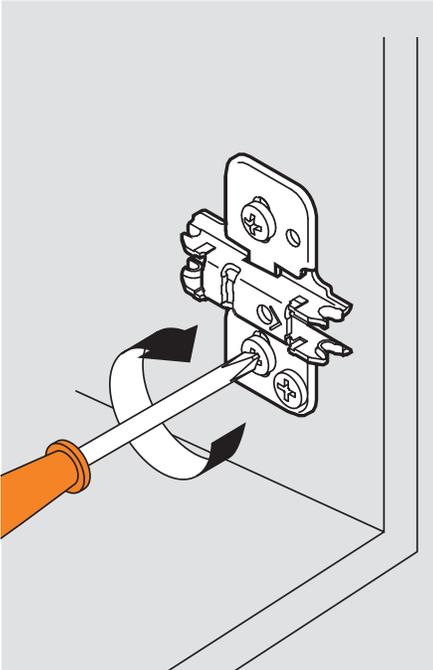
#### INSERTA

Tool-free attachment with INSERTA expanding Ø8 mm dowels



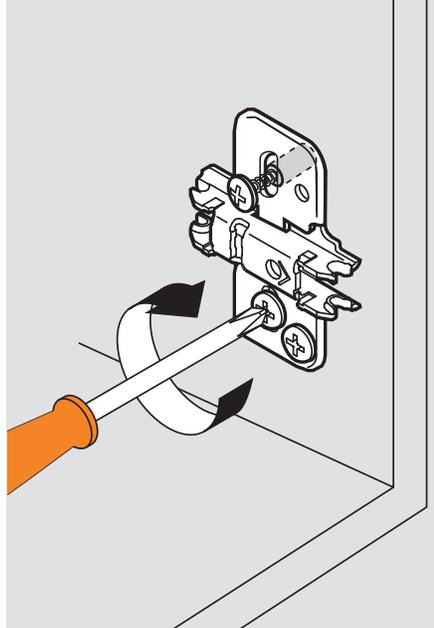
### Mounting plate-to-cabinet

#### Screw-on



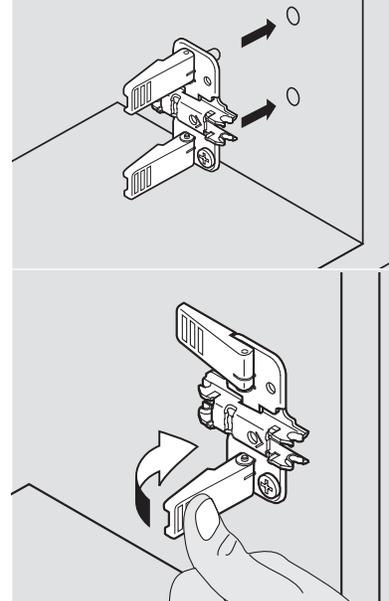
#### EXPANDO

Pre-attached expanding Ø5 mm dowels



#### INSERTA

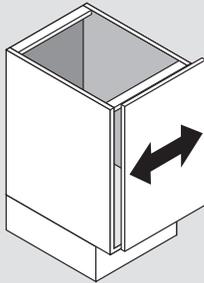
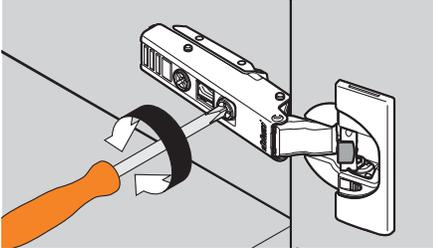
Tool-free attachment with INSERTA expanding Ø5 mm dowels



## Three-dimensional adjustment

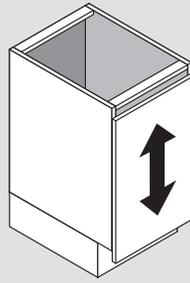
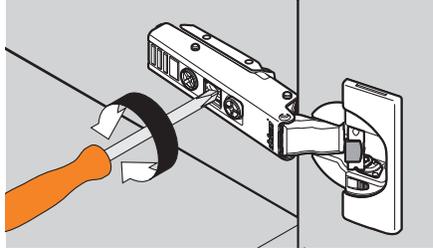
## Side adjustment

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



## Height adjustment

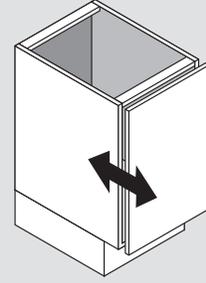
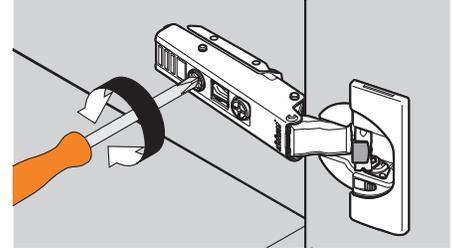
Rotate cam screw on mounting plate to adjust door position ( $\pm 2$  mm)



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

## Depth adjustment

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

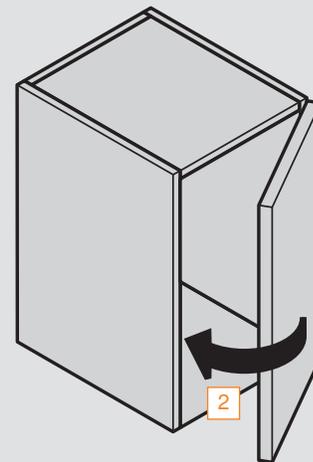
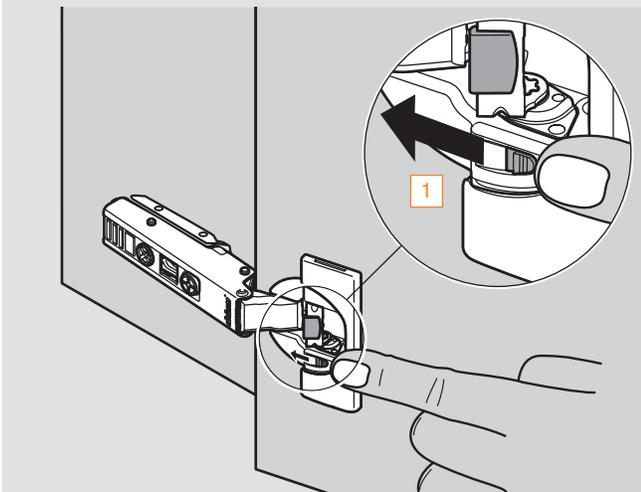


## BLUMOTION deactivation

## Deactivation switch on hinge cup

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

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



## i Temperature information

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

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

### Minimum reveal

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

### Face frame construction

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

### Panel construction

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

### Overlay and reveal tables

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

### Select hinge

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

Hinges

CLIP top BLUMOTION 110°

**Features**

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

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

T = door thickness  
Thickness greater than 26 trial recommended

**Overlay Frame**

**Partial/twin overlay Frame**

**Inset Frame**

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

**Overlay Panel**

**Partial/twin overlay Panel**

**Inset Panel**

| H   | Overlay |      |      |      |      |      |                     | P | S | H | Overlay |     |     |     |     |                      |    | P | S | H | Reveal |     |     |     |     |      |                                | P | S |  |
|-----|---------|------|------|------|------|------|---------------------|---|---|---|---------|-----|-----|-----|-----|----------------------|----|---|---|---|--------|-----|-----|-----|-----|------|--------------------------------|---|---|--|
| 0   | 14      | 15   | 16   | 17   | 18   | 12   | 21.5                |   |   | 0 | 4.5     | 5.5 | 6.5 | 7.5 | 8.5 | 21.5                 | 31 |   |   | 0 | 4      | 3   | 2   | 1   | -   | 30   | 39.5                           |   |   |  |
| 3   | 11      | 12   | 13   | 14   | 15   | 15   | 24.5                |   |   | 3 | 4       | 5   | 6   | 7   |     | Fixed distance = 1.5 |    |   |   | 9 | 4.5    | 3.5 | 2.5 | 1.5 | 0.5 | 30.5 | 40                             |   |   |  |
| 4.5 | 9.5     | 10.5 | 11.5 | 12.5 | 13.5 | 16.5 | 26                  |   |   |   |         |     |     |     |     | B = boring distance  |    |   |   |   | 3      | 4   | 5   | 6   | 7   |      | Fixed distance: 0 = -7 8 = 1.5 |   |   |  |
| 6   | 8       | 9    | 10   | 11   | 12   | 18   | 27.5                |   |   |   |         |     |     |     |     | B = boring distance  |    |   |   |   |        |     |     |     |     |      |                                |   |   |  |
| 9   | 5       | 6    | 7    | 8    | 9    | 21   | 30.5                |   |   |   |         |     |     |     |     |                      |    |   |   |   |        |     |     |     |     |      |                                |   |   |  |
|     | 3       | 4    | 5    | 6    | 7    |      | Fixed distance = 11 |   |   |   |         |     |     |     |     |                      |    |   |   |   |        |     |     |     |     |      |                                |   |   |  |
|     |         |      |      |      |      |      |                     |   |   |   |         |     |     |     |     |                      |    |   |   |   |        |     |     |     |     |      |                                |   |   |  |

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

| Straight-arm |         | Self close |         | Half-cranked |         | Self close |         | Full-cranked |         | Self close |         |
|--------------|---------|------------|---------|--------------|---------|------------|---------|--------------|---------|------------|---------|
| Screw-on     | 71B3550 |            | 71B3550 | Screw-on     | 71B3650 |            | 71B3650 | Screw-on     | 71B3750 |            | 71B3750 |
| Press-in     | 71B3580 |            | 71B3580 | Press-in     | 71B3680 |            | 71B3680 | Press-in     | 71B3780 |            | 71B3780 |
| INSERTA      | 71B3590 |            | 71B3590 | INSERTA      | 71B3690 |            | 71B3690 | INSERTA      | 71B3790 |            | 71B3790 |
| EXPANDO      | 71B358E |            | 71B358E |              |         |            |         |              |         |            |         |

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

**Step 1 – Determine cabinet construction**

Face frame

Panel

**Step 2 – Determine the overlay or reveal**

Overlay

Partial/twin overlay

Inset

**Step 3 – Find boring distance and mounting plate height**

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

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

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

**Step 4 – Check minimum reveal table**

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

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

T = door thickness

| <b>CLIP top BLUMOTION</b> | <b>Page</b> |
|---------------------------|-------------|
| 110°                      | 13          |
| 110°+                     | 14          |
| 95° thick door            | 15          |
| 110° diagonal 45°         | 16          |
| 95° inset blind corner    | 17          |
| 95° overlay blind corner  | 18          |
| 95° narrow aluminum       | 19          |

| <b>CLIP top</b>             | <b>Page</b> |
|-----------------------------|-------------|
| 107°                        | 20          |
| 110°                        | 21          |
| 110°+                       | 22          |
| 120°                        | 23          |
| 120°+                       | 24          |
| 95° thick door              | 25          |
| 170°                        | 26          |
| 170° special applications   | 27          |
| 155° zero protrusion        | 28          |
| 155° special applications   | 29          |
| 125° zero protrusion        | 31          |
| 125° special applications   | 32          |
| 95° inset blind corner      | 33          |
| 95° overlay blind corner    | 34          |
| 120° aluminum for BLUMOTION | 35          |
| 120° aluminum               | 36          |
| 110° diagonal 45°           | 37          |
| 95° mini                    | 38          |
| 95° glass door              | 39          |
| 60° bi-fold                 | 40          |

| <b>CLIP</b> | <b>Page</b> |
|-------------|-------------|
| 107°        | 41          |
| 100°        | 42          |

| <b>Angled</b>                   | <b>Page</b> |
|---------------------------------|-------------|
| CLIP top BLUMOTION and CLIP top | 43          |

| <b>CLIP accessories</b> | <b>Page</b> |
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| Cover caps              | 55          |
| Angle restriction clips | 56          |
| Mounting plates         | 57          |
| BLUMOTION for doors     | 61          |
| TIP-ON for doors        | 69          |

| <b>COMPACT BLUMOTION</b> | <b>Page</b> |
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| 38N for partial overlay  | 78          |
| 39C for full overlay     | 79          |
| 38C for full overlay     | 80          |
| 38B for face mount       | 81          |
| Accessories              | 82          |

| <b>COMPACT</b>          | <b>Page</b> |
|-------------------------|-------------|
| 38N for partial overlay | 84          |
| 39C for full overlay    | 85          |
| 38C for full overlay    | 86          |
| 33                      | 87          |
| BLUMOTION for COMPACT   | 89          |
| Accessories             | 90          |

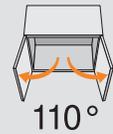
| <b>Machines and assembly aids</b> | <b>Page</b> |
|-----------------------------------|-------------|
| Machines                          | 91          |
| Machine accessories               | 92          |
| Assembly aids                     | 95          |

| <b>Part number index</b> | <b>Page</b> |
|--------------------------|-------------|
| Part numbers             | 101         |

# Hinges



## CLIP top BLUMOTION 110°



### Features

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

### Minimum reveal table

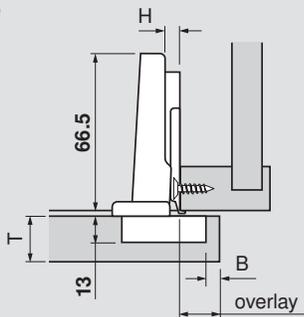
|                     | 0.5 | 1.0 | 1.8 | 2.7 | 4.3 |
|---------------------|-----|-----|-----|-----|-----|
| 3                   | 0.5 | 1.0 | 1.7 | 2.5 | 3.8 |
| 4                   | 0.5 | 0.9 | 1.7 | 2.4 | 3.4 |
| 5                   | 0.5 | 0.9 | 1.6 | 2.3 | 3.2 |
| 6                   | 0.5 | 0.9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

T = door thickness

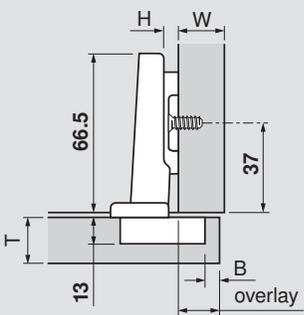
Thickness greater than 26 trial recommended

### Overlay

#### Frame

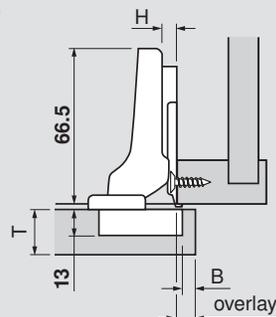


#### Panel

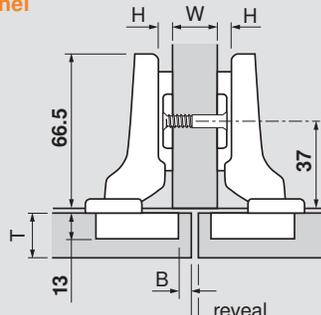


### Partial/twin overlay

#### Frame

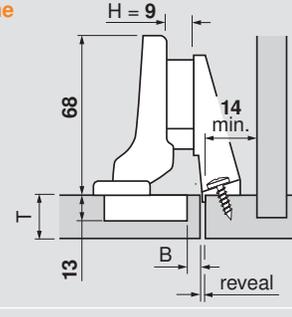


#### Panel



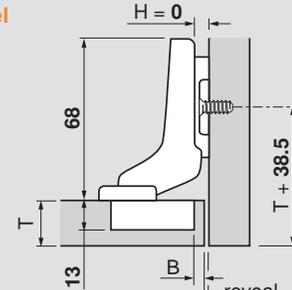
### Inset

#### Frame



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

#### Panel



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

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

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

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

### Abbreviations

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

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

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

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



## CLIP top BLUMOTION 110°+

## Hinges



CLIP top BLUMOTION

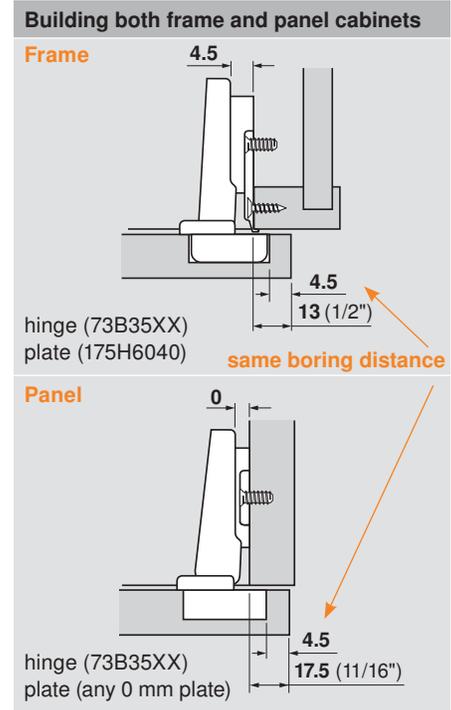
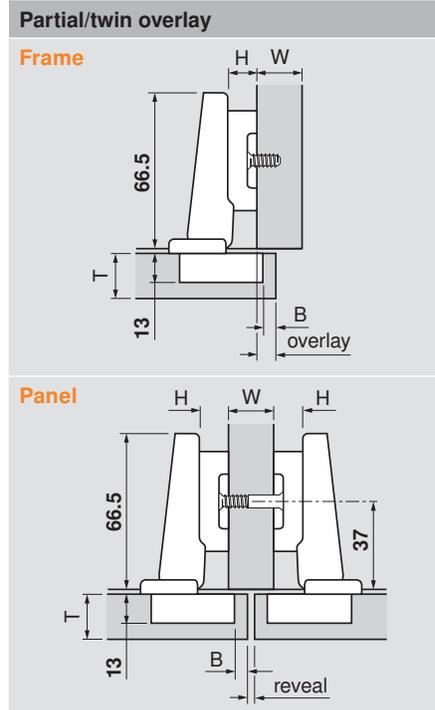
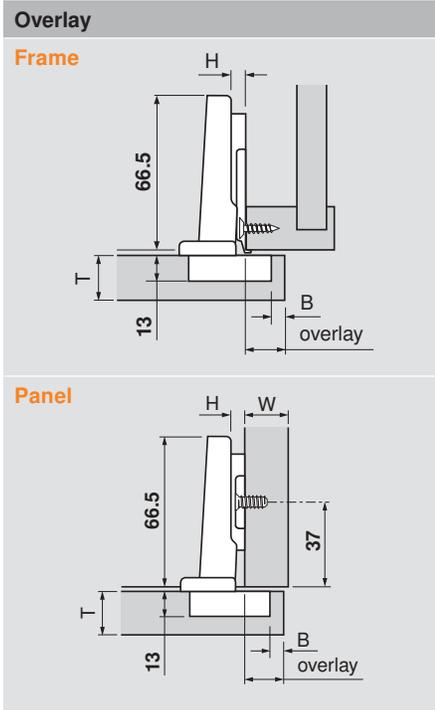


### Features

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

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

Thickness greater than 26 trial recommended



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

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

| H | Overlay             |   |     |   |    |    | P                   | S  |    |
|---|---------------------|---|-----|---|----|----|---------------------|----|----|
| 9 | 7                   | 8 | 8.5 | 9 | 10 | 11 | 19                  | 29 |    |
|   | 3                   | 4 | 4.5 | 5 | 6  | 7  | Fixed distance = 13 |    |    |
|   | B = boring distance |   |     |   |    |    |                     |    |    |
| H | Reveal              |   |     |   |    |    | W                   | P  | S  |
|   | 2                   | - | -   | - | -  | -  | 16                  |    |    |
| 9 | 5                   | 3 | 2   | - | -  | -  | 19                  | 19 | 29 |
|   | 8                   | 6 | 5   | 4 | -  | -  | 22                  |    |    |
|   | 3                   | 4 | 4.5 | 5 | 6  | 7  |                     |    |    |
|   | B = boring distance |   |     |   |    |    |                     |    |    |

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

### Bore all doors at 4.5 mm to achieve:

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

### Advantages:

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

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

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

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

# Hinges



## CLIP top BLUMOTION 95° thick door



### Features

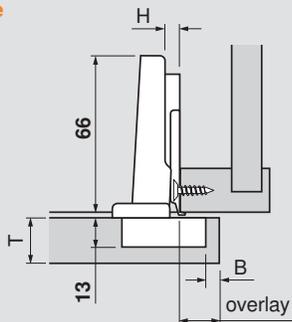
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 30 (1-3/16")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

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

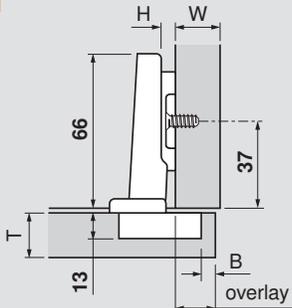
Thickness greater than 30 trial recommended

### Overlay

#### Frame

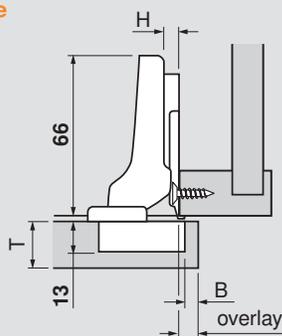


#### Panel

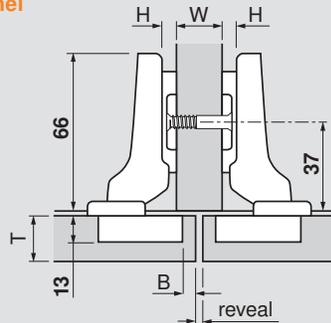


### Partial/twin overlay

#### Frame

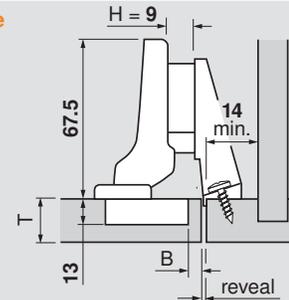


#### Panel



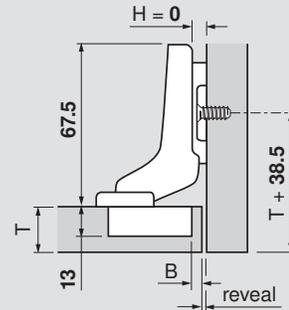
### Inset

#### Frame



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

#### Panel



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

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

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

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

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

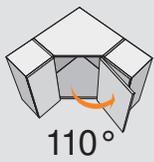
### Abbreviations

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

| Straight-arm | Self close |
|--------------|------------|
| Screw-on     | 71B9550    |
| Press-in     | 71B9580    |
| INSERTA      | 71B9590    |

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

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



## CLIP top BLUMOTION 110° diagonal 45°

## Hinges

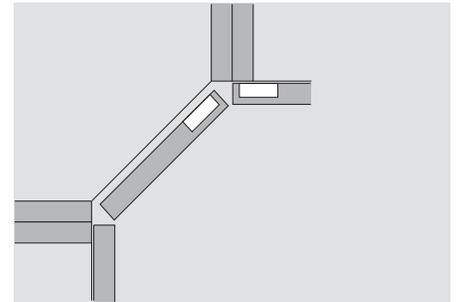


CLIP top BLUMOTION



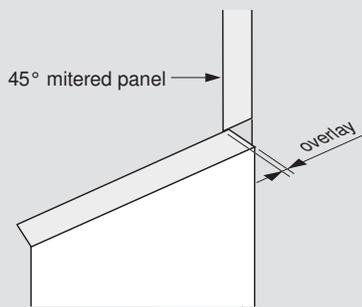
### Features

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

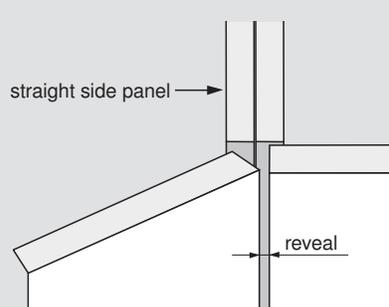


Thickness greater than **19** trial recommended

### Overlay application



### Inside corner



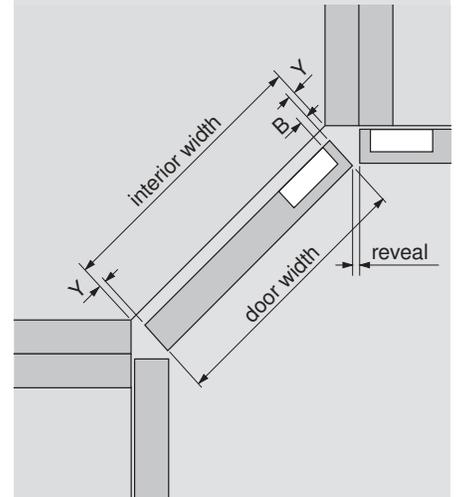
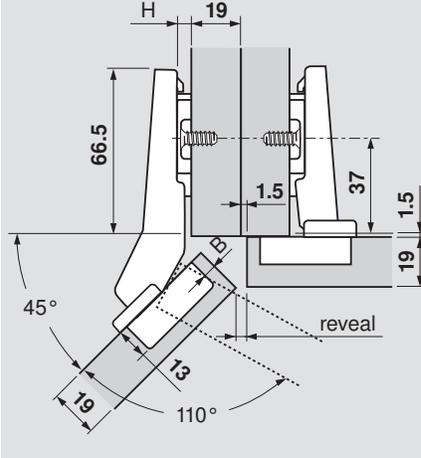
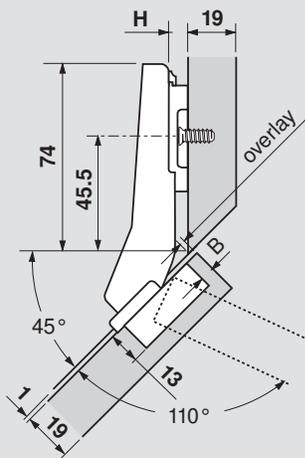
### Calculating door width

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

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

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

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



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

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

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

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

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

| Diagonal 45° hinge | Self close     |
|--------------------|----------------|
| INSERTA            | <b>79B3598</b> |

| Diagonal 45° hinge | Self close     |
|--------------------|----------------|
| INSERTA            | <b>79B3598</b> |

| Abbreviations |                |
|---------------|----------------|
| H             | = Plate height |
| Y             | = Side gap     |

# Hinges



## CLIP top BLUMOTION 95° inset blind corner



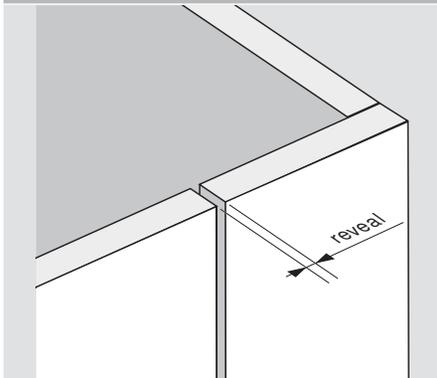
### Features

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

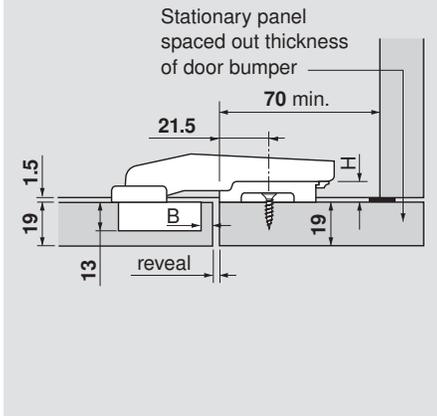
| Minimum reveal table |     |     |     |     |     |     |                    |
|----------------------|-----|-----|-----|-----|-----|-----|--------------------|
| 3                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |                    |
| 4                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 |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

Thickness greater than 24 trial recommended

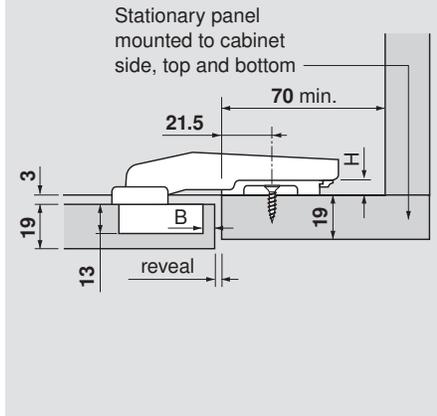
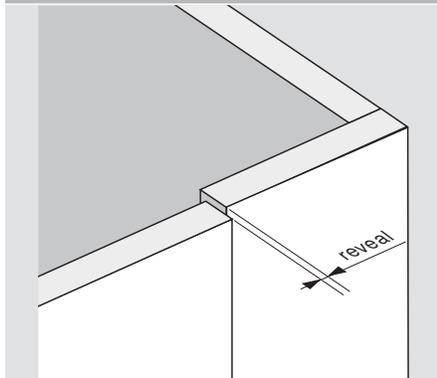
### Flush door applications



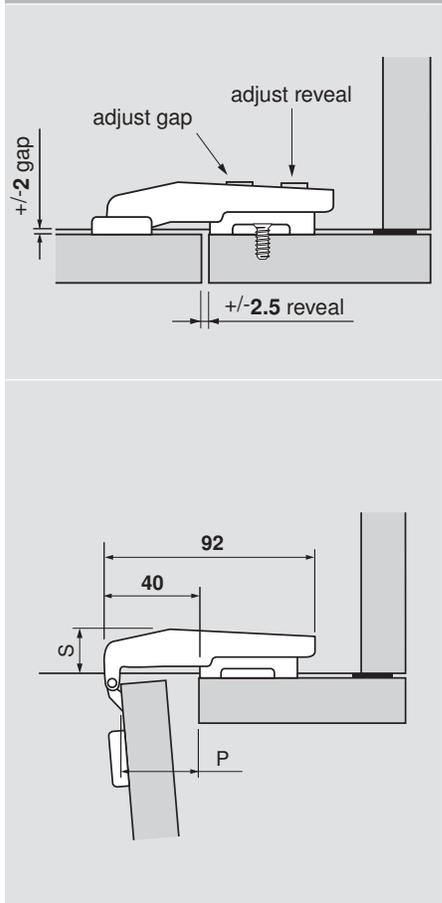
Back of door is flush with stationary panel



### Offset door applications



### Adjustments and clearance



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

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

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

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

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



## CLIP top BLUMOTION 95° overlay blind corner

## Hinges



CLIP top BLUMOTION



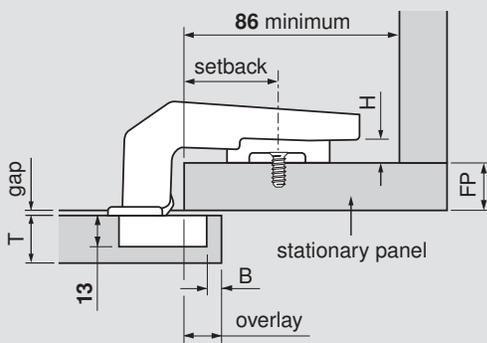
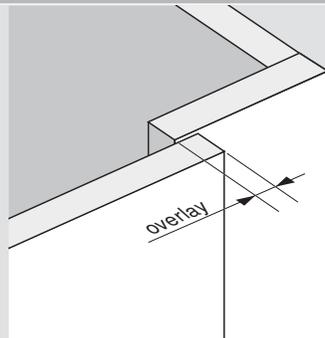
### Features

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

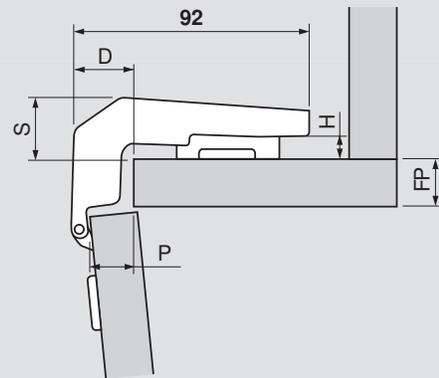
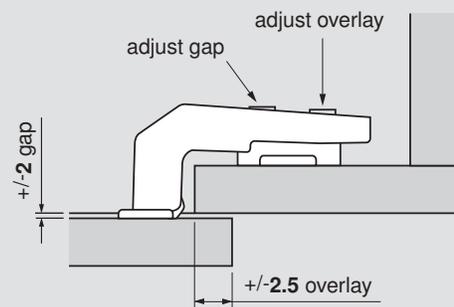
| Minimum reveal table |     |     |     |     |     |     |
|----------------------|-----|-----|-----|-----|-----|-----|
| 3                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 4                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 5                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3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

Thickness greater than 24 trial recommended

### Overlay application



### Adjustments and clearances



**NOTE:** Door gap can be adjusted  $\pm 2$  mm

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

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

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

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

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

| Overlay blind corner | Self close     |
|----------------------|----------------|
| Press-in             | <b>79B9980</b> |

# Hinges



## CLIP top BLUMOTION 95° narrow aluminum door



### Features

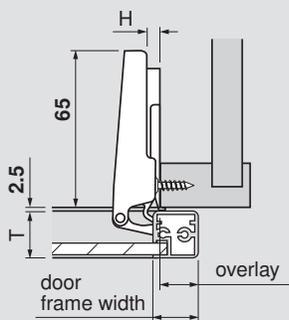
- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 22 (7/8")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

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

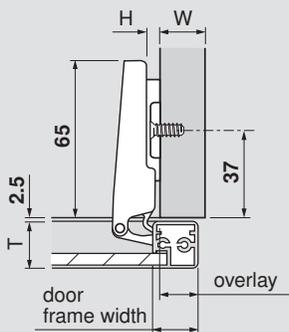
Thickness greater than 22 trial recommended

### Overlay

#### Frame

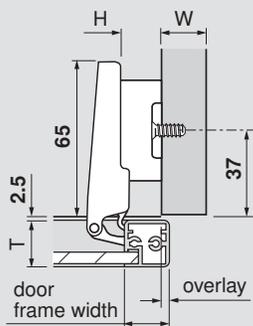


#### Panel

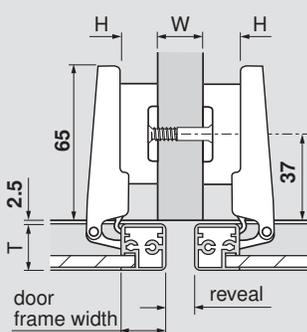


### Partial/twin overlay

#### Panel

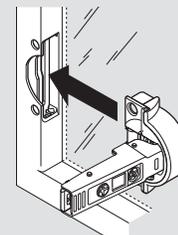


#### Panel

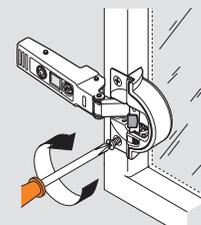


### Installation

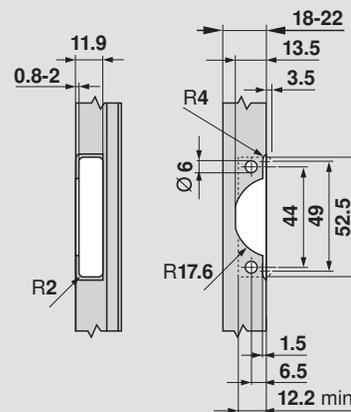
Attach cup adapter to the hinge and insert into machined openings



Attach using aluminum screws provided with hinges (699.110)



### Aluminum door preparation



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

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

| H | Overlay   | P  | S  |
|---|-----------|----|----|
| 9 | 7         | 23 | 31 |
|   | B = fixed |    |    |

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

| Straight-arm | Self close |
|--------------|------------|
| Screw-on     | 71B950A    |

| Straight-arm | Self close |
|--------------|------------|
| Screw-on     | 71B950A    |

### Abbreviations

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



## CLIP top 107°

## Hinges



### Features

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

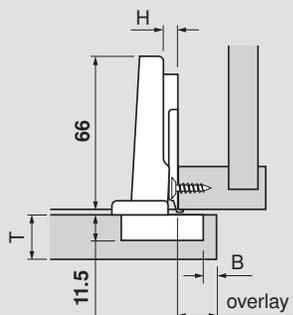
| Minimum reveal table |                    |            |            |            |            |
|----------------------|--------------------|------------|------------|------------|------------|
| <b>3</b>             | <b>0.6</b>         | <b>1.0</b> | <b>1.3</b> | <b>1.7</b> | <b>2.5</b> |
| <b>4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

Thickness greater than **22** trial recommended

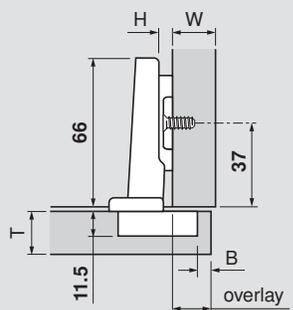
CLIP top

### Overlay

#### Frame



#### Panel



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

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

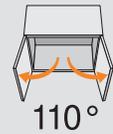
| Straight-arm   | Self close      |
|--|-----------------|
| Screw-on   | <b>75T1550</b>  |
| Press-in  | <b>75T1580</b>  |
| INSERTA  | <b>75T1590B</b> |

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

# Hinges



## CLIP top 110°



### Features

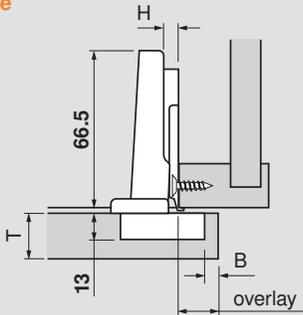
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to 26 (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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

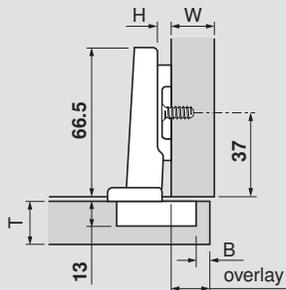
Thickness greater than 26 trial recommended

### Overlay

#### Frame

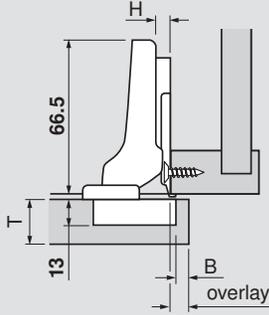


#### Panel

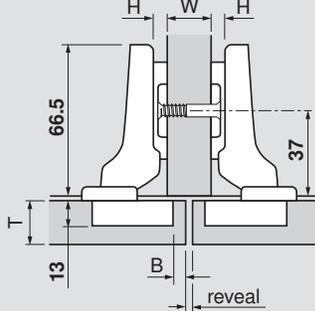


### Partial/twin overlay

#### Frame

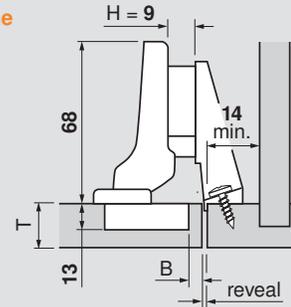


#### Panel



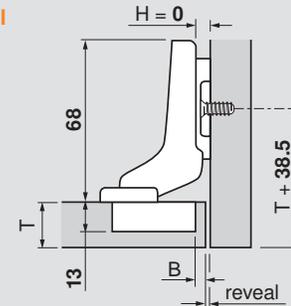
### Inset

#### Frame



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

#### Panel



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

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

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

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

### Abbreviations

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

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

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

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



## CLIP top 110°+

## Hinges



### Features

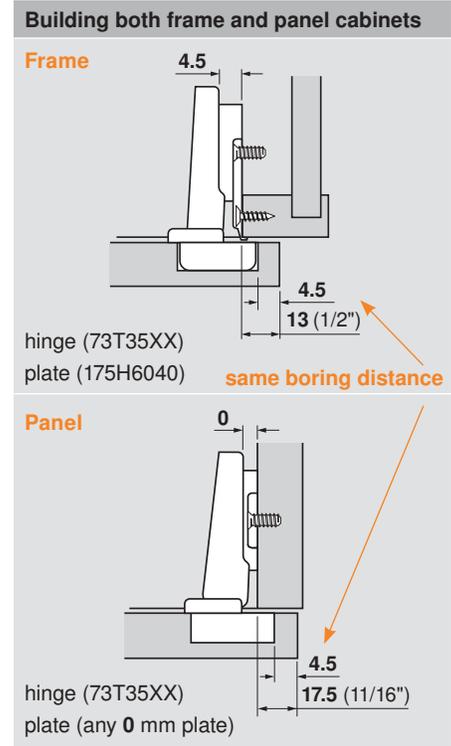
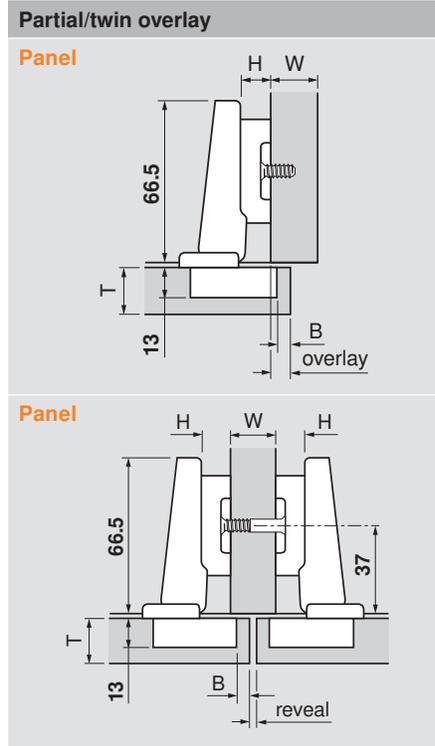
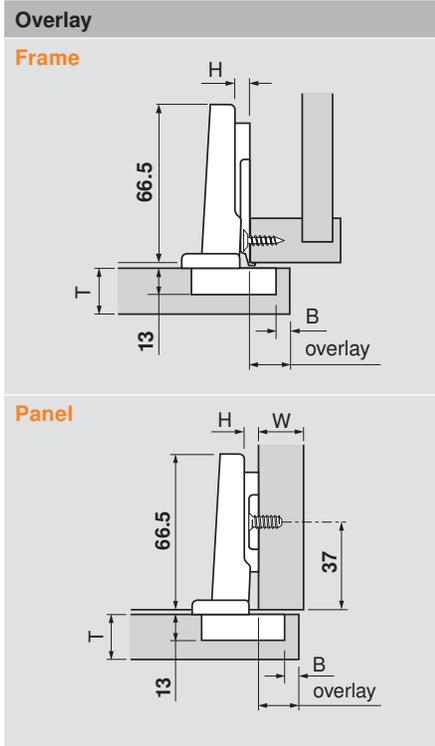
- For larger overlays (22 mm maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in Ø8 mm holes
- For door thicknesses up to 26 (1")
- 86° angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

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

T = door thickness

CLIP top

Thickness greater than 26 trial recommended



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

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

| H | Overlay             |   |     |   |    |    | P                   | S  |    |
|---|---------------------|---|-----|---|----|----|---------------------|----|----|
| 9 | 7                   | 8 | 8.5 | 9 | 10 | 11 | 19                  | 29 |    |
|   | 3                   | 4 | 4.5 | 5 | 6  | 7  | Fixed distance = 13 |    |    |
|   | B = boring distance |   |     |   |    |    |                     |    |    |
| H | Reveal              |   |     |   |    |    | W                   | P  | S  |
|   | 2                   | - | -   | - | -  | -  | 16                  |    |    |
| 9 | 5                   | 3 | 2   | - | -  | -  | 19                  | 19 | 29 |
|   | 8                   | 6 | 5   | 4 | -  | -  | 22                  |    |    |
|   | 3                   | 4 | 4.5 | 5 | 6  | 7  |                     |    |    |
|   | B = boring distance |   |     |   |    |    |                     |    |    |

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

**Bore all doors at 4.5 mm to achieve:**

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

**Advantages:**

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

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

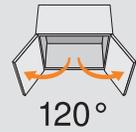
| Straight-arm | Self close | Free swing |
|--------------|------------|------------|
| Screw-on     | 73T3550    | 72T3550.TL |
| Press-in     | 73T3580    | 72T3580.TL |
| INSERTA      | 73T3590    | 72T3590.TL |
| EXPANDO      | 73T358E    |            |

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

# Hinges



## CLIP top 120°



### Features

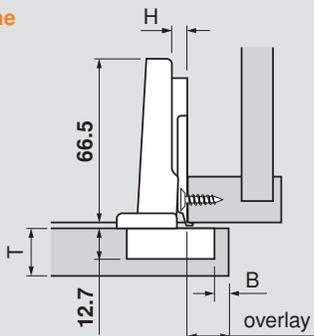
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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

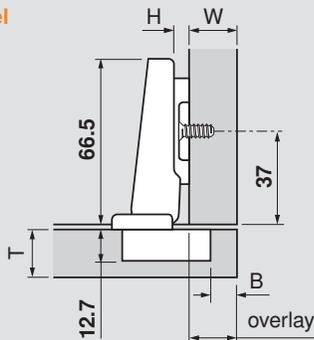
Thickness greater than 22 trial recommended

### Overlay

#### Frame

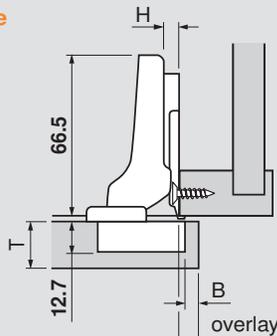


#### Panel

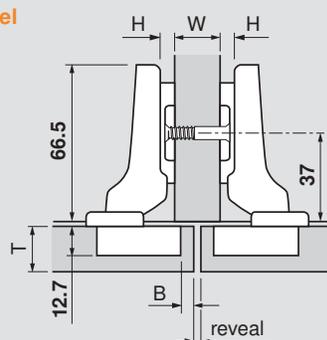


### Partial/twin overlay

#### Frame

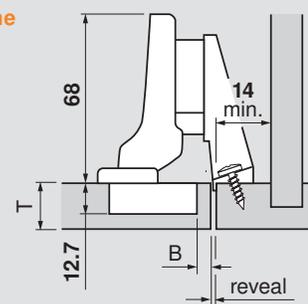


#### Panel



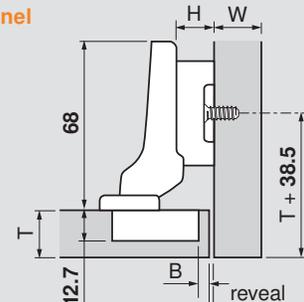
### Inset

#### Frame



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

#### Panel



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

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

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

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

### Abbreviations

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

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

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

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



## CLIP top 120°+

## Hinges



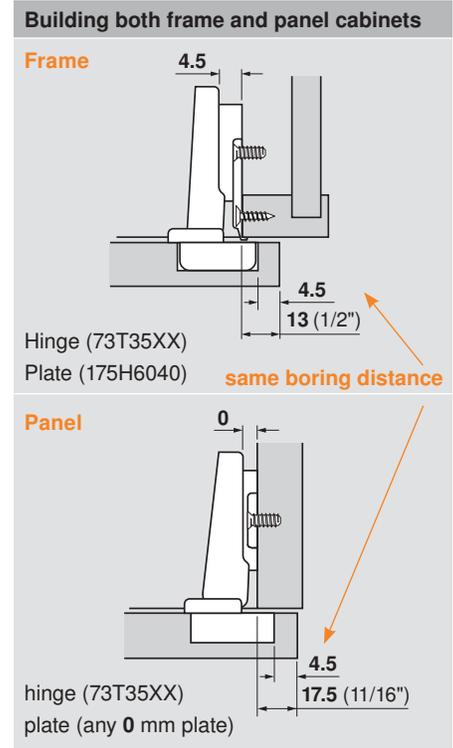
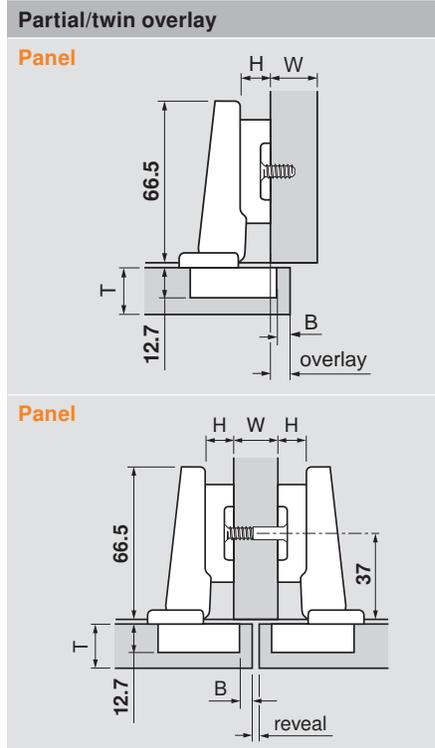
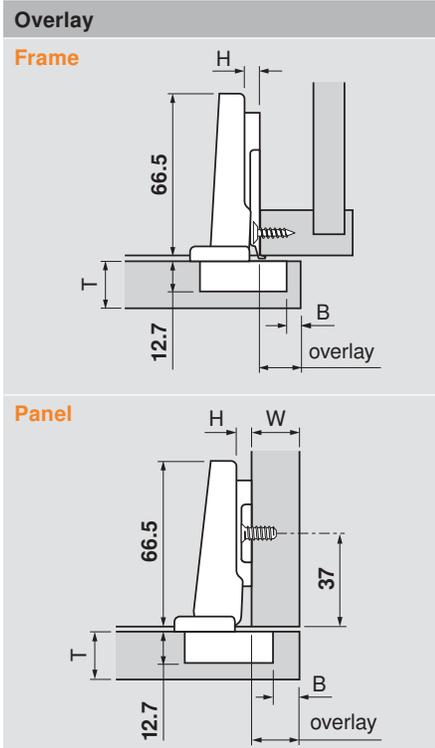
### Features

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

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

Thickness greater than 22 trial recommended

CLIP top



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

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

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

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

### Bore all doors at 4.5 mm to achieve:

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

### Advantages:

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

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

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

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

# Hinges



## CLIP top 95° thick door



### Features

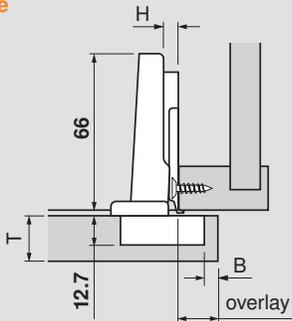
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to **30** (1-3/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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

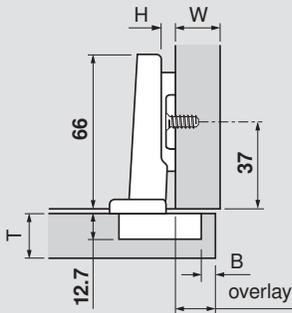
Thickness greater than **30** trial recommended

### Overlay

#### Frame

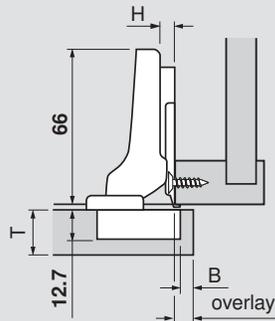


#### Panel

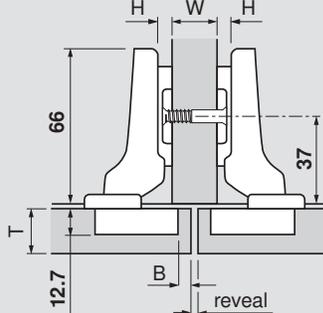


### Partial/twin overlay

#### Frame

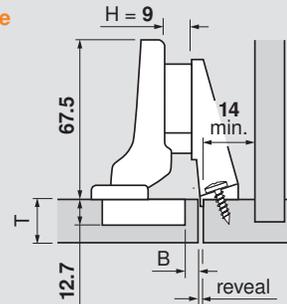


#### Panel



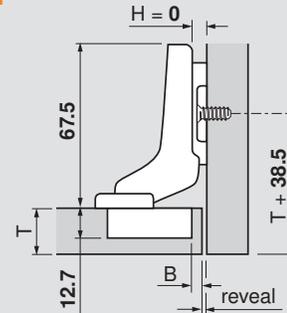
### Inset

#### Frame



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

#### Panel



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

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

| H | Overlay             |     |     |     |     | P                    | S  |
|---|---------------------|-----|-----|-----|-----|----------------------|----|
| 0 | 4.5                 | 5.5 | 6.5 | 7.5 | 8.5 | 24                   | 31 |
|   | 3                   | 4   | 5   | 6   | 7   | Fixed distance = 1.5 |    |
|   | B = boring distance |     |     |     |     |                      |    |
| H | Reveal              |     |     |     | W   | P                    | S  |
| 0 | 7                   | 5   | 3   | 1   | -   | 16                   |    |
|   | 10                  | 8   | 6   | 4   | 2   | 19                   | 24 |
|   | 13                  | 11  | 9   | 7   | 5   | 22                   | 31 |
|   | 3                   | 4   | 5   | 6   | 7   | B = boring distance  |    |
|   | B = boring distance |     |     |     |     |                      |    |

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

### Abbreviations

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

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

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

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



## CLIP top 170°

## Hinges



### Features

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

### Minimum reveal table

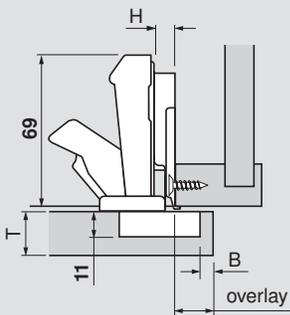
|                     | 3                  | 4  | 5  | 6  | 7  | 8  |
|---------------------|--------------------|----|----|----|----|----|
| 0                   | 0                  | 0  | 0  | 0  | 0  | 0  |
| 0.2                 | 0.2                | 0  | 0  | 0  | 0  | 0  |
| 2.2               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

Thickness greater than 24 trial recommended

CLIP top

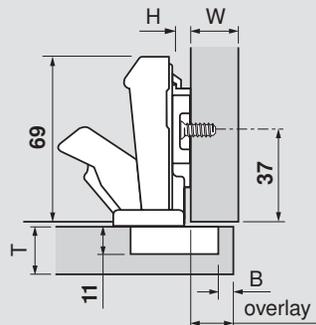
### Overlay

#### Frame



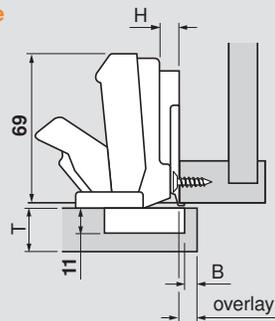
NOTE: 175H6xxx or 175L6600.24 recommended

#### Panel

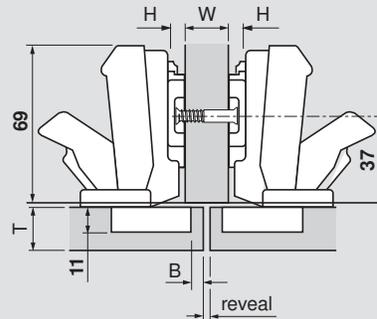


### Partial/twin overlay

#### Frame



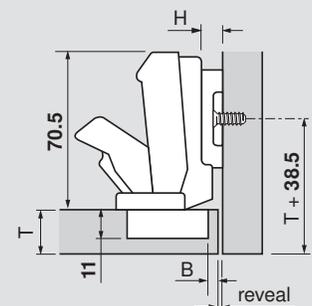
#### Panel



### Inset

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

#### Panel



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

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

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

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

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

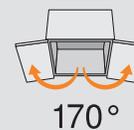
### Abbreviations

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

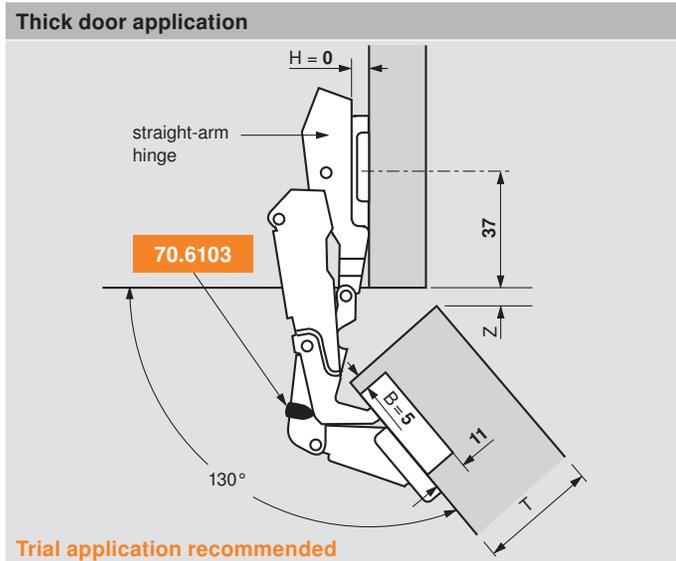
| Straight-arm | Self close | Free swing |
|--------------|------------|------------|
| Screw-on     | 71T6550    | 70T6550.TL |
| Press-in     | 71T6580    |            |
| INSERTA      | 71T6540B   | 70T6540BTL |

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

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



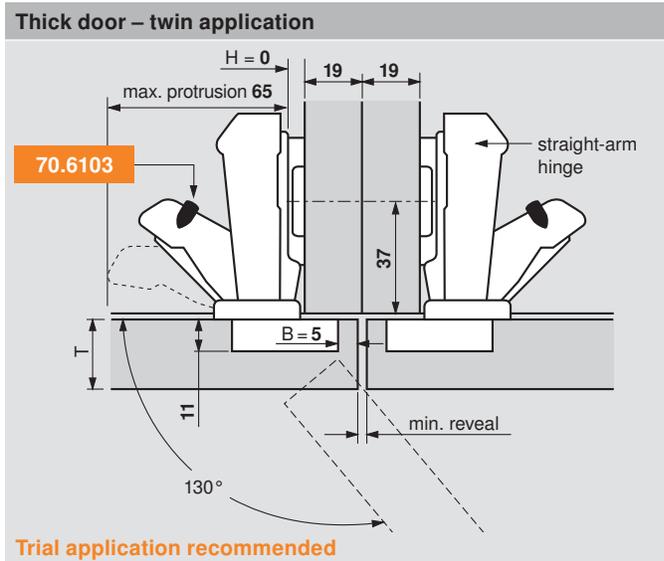
### Straight-arm applications



Trial application recommended

**NOTE:** Inset application can also be achieved with either a straight-arm hinge with a 18 mm plate or half-cranked hinge with 9 mm plate. Setback of mounting plate would be 38.5 mm + door thickness.

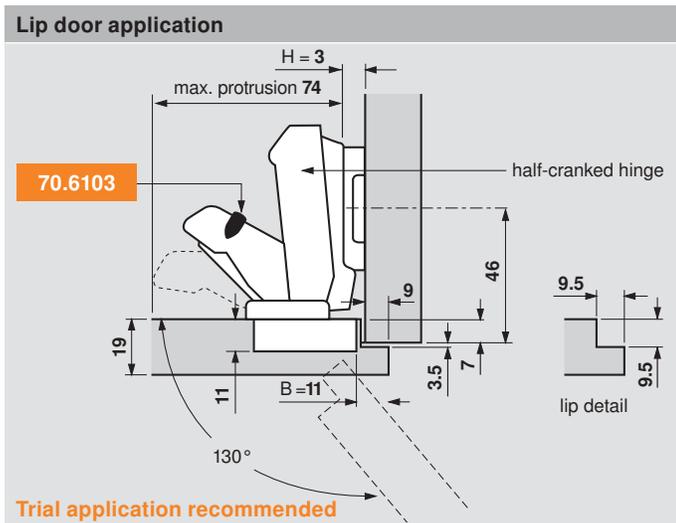
| Z = gap            |    |    |     |     |
|--------------------|----|----|-----|-----|
| 15.5               | 13 | 11 | 9.5 | 7.5 |
| 25                 | 29 | 32 | 35  | 38  |
| T = door thickness |    |    |     |     |



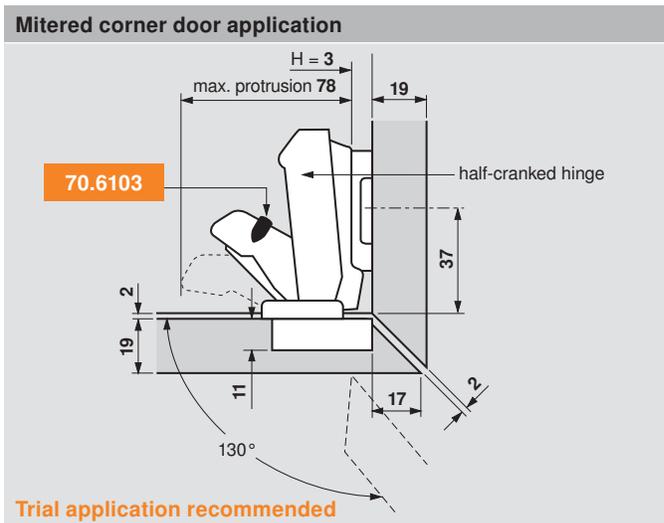
Trial application recommended

| Minimum reveal table |     |      |    |
|----------------------|-----|------|----|
| 0                    | 6.5 | 14.5 | 21 |
| 22                   | 25  | 29   | 32 |
| T = door thickness   |     |      |    |

### Half-cranked applications



Trial application recommended



Trial application recommended

**NOTE:** All 170° special applications can be achieved in face frame cabinets by blocking out behind the frame

### Angle restriction clip

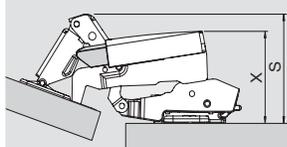


- Reduces opening angle of the CLIP top 170° to 130°
- Installs quickly, easily and tool-free
- Black nylon

Part no.

Angle restriction clip **70.6103**

### BLUMOTION for 170° hinge



| Hinge                      | X  | S        |
|----------------------------|----|----------|
| CLIP top 170° straight-arm | 49 | 65       |
| CLIP top 170° half-cranked | 68 | 75       |
|                            |    | Part no. |

BLUMOTION for 170° hinge

**973A6000**



## CLIP top 155° zero protrusion

## Hinges



### Features

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

### Minimum reveal table

|                     | 3  | 4  | 5  | 6  | 7  | 8  |
|---------------------|----|----|----|----|----|----|
|                     | 0  | 0  | 0  | 0  | 0  | 0  |
|                     | 0  | 0  | 0  | 0  | 0  | 0  |
|                     | 0  | 0  | 0  | 0  | 0  | 0  |
|                     | 0  | 0  | 0  | 0  | 0  | 0  |
|                     | 0  | 0  | 0  | 0  | 0  | 0  |
| B = boring distance | 16 | 18 | 19 | 20 | 22 | 24 |

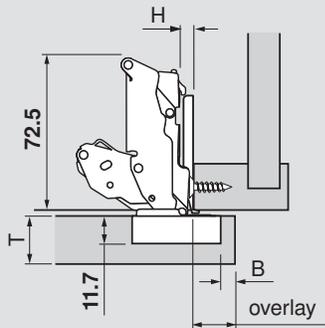
T = door thickness

Thickness greater than **24** please see page 29

CLIP top

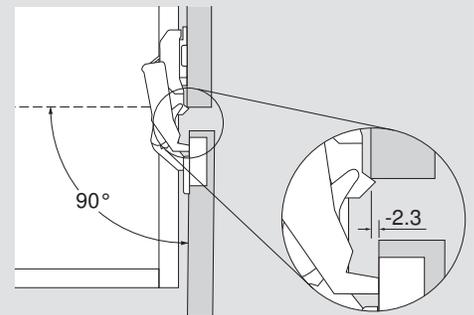
### Overlay

#### Frame



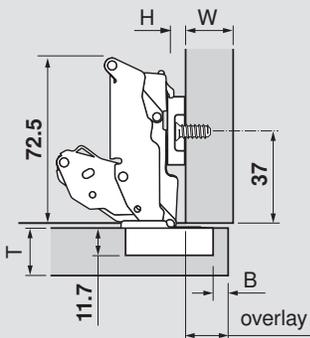
### Door protrusion

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

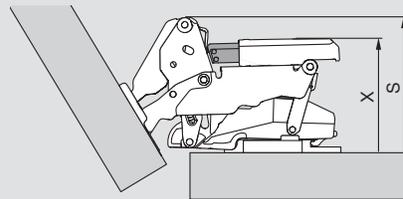


**NOTE:** Use of 0 mm or 3 mm is recommended for zero protrusion

#### Panel

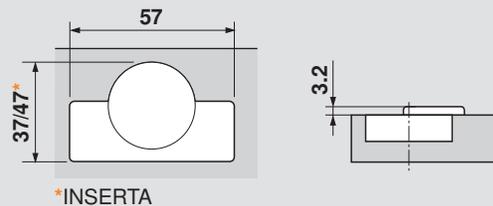


### BLUMOTION for 155° hinges



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

### Hinge cup dimensions



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

### Angle restriction clips



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

Part no.

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

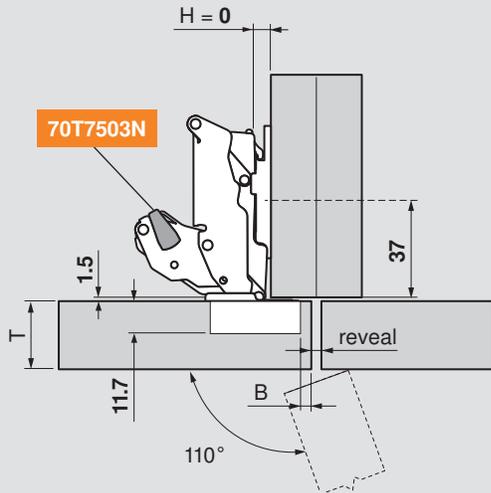
### Abbreviations

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

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



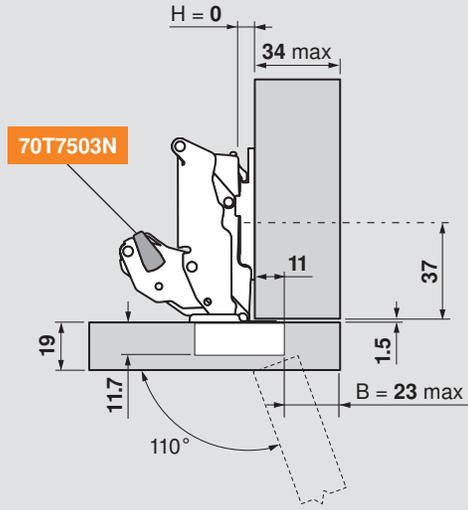
### Maximum door thickness



**Trial application recommended**

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

### Maximum door overlay



**Trial application recommended**

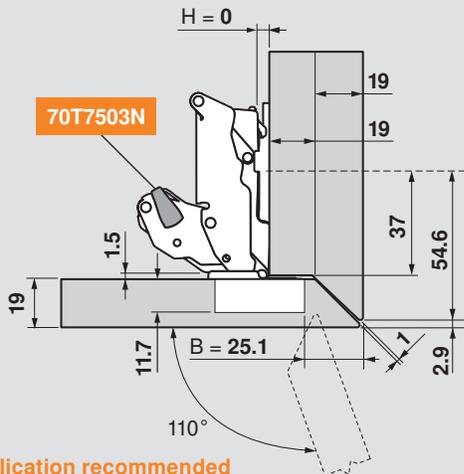
**NOTE:** Inset application can also be achieved with either a straight-arm hinge with a 18 mm plate or half-cranked hinge with 9 mm plate. Setback of mounting plate would be 38.5 mm + door thickness.

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

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

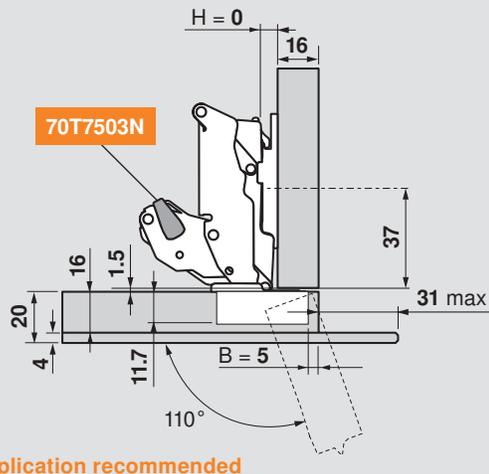
\*Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm

### Mitered door with large overlay



**Trial application recommended**

### Thin facing added to door



**Trial application recommended**

**NOTE:** All 155° special applications can be achieved in face frame cabinets by blocking out behind the frame

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

### Angle restriction clips



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

Part no.

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

### Abbreviations

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

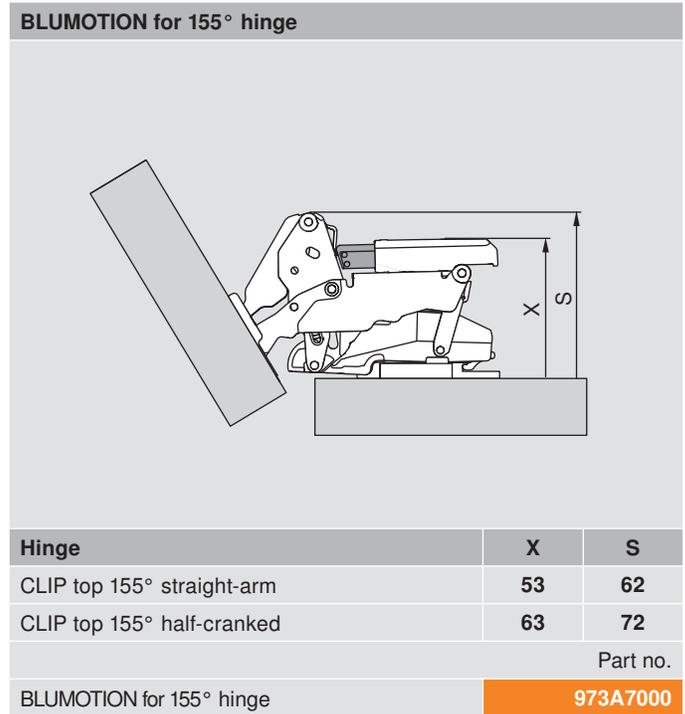
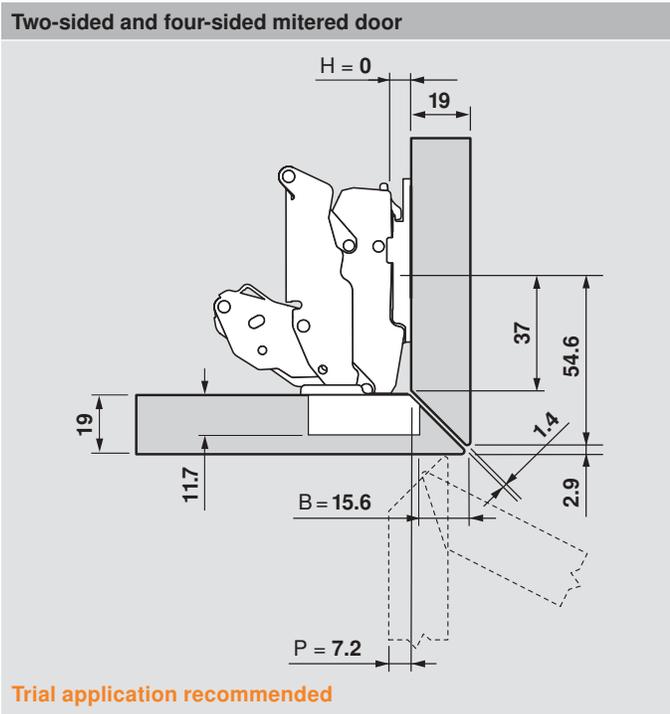
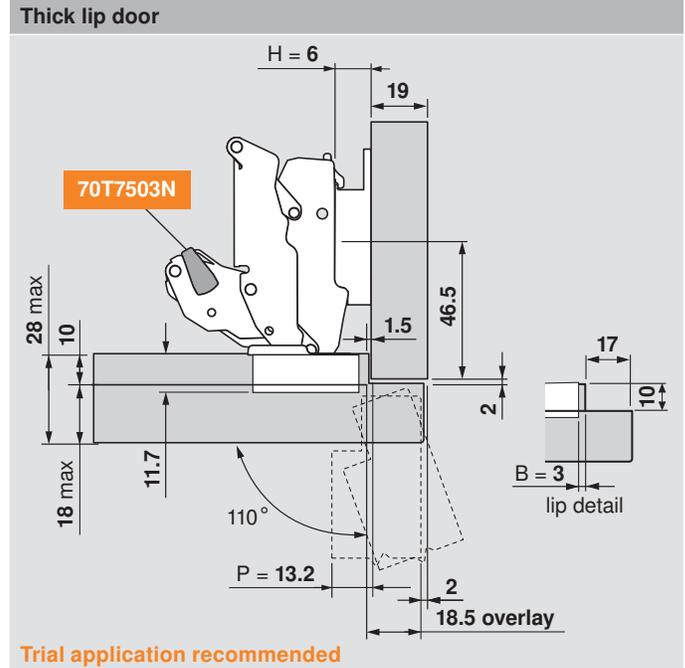
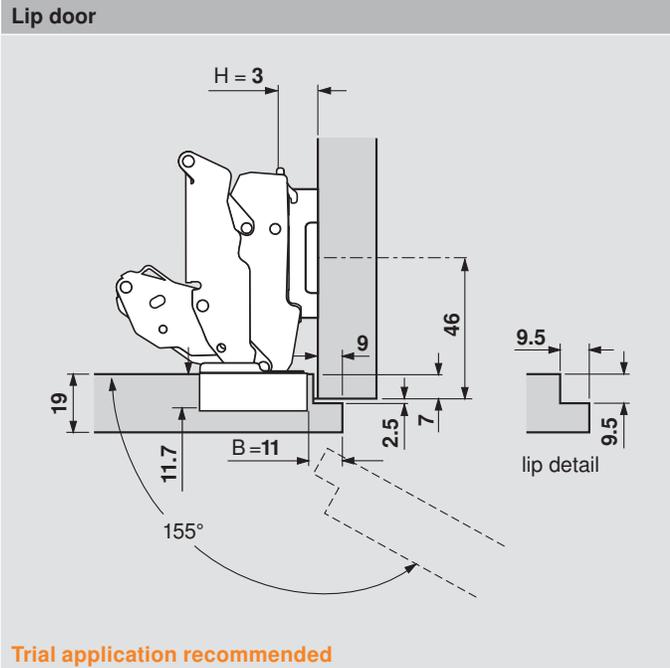


# CLIP top 155° half-cranked special applications

## Hinges



CLIP top



**NOTE:** All 155° special applications can be achieved in face frame cabinets by blocking out behind the frame

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

**Angle restriction clips**

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

Part no.

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

**Abbreviations**

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

# Hinges



## CLIP top 125° zero protrusion for thicker doors



### Features

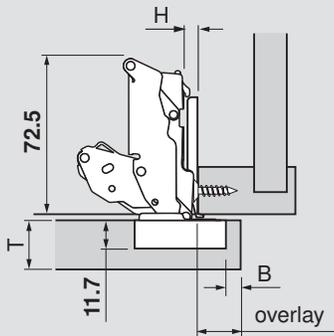
- Zero protrusion hinge for thicker doors
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- For door thicknesses up to 30 (1-3/16")
- 92° angle restriction clip available (70T7503N)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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

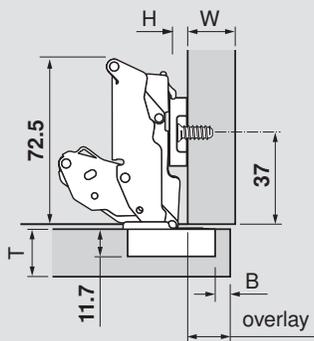
Thickness greater than 30 mm, see next page

### Overlay

#### Frame

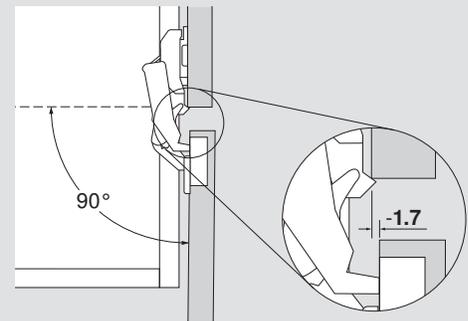


#### Panel



### Door protrusion

At 90° opening, using 0 mm plate, the door will have -1.7 mm protrusion regardless of boring distance. Use side adjustment to increase or decrease door protrusion.



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

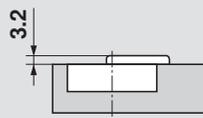
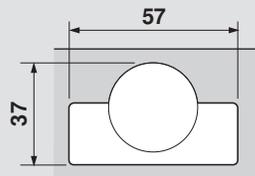
### Hinges per door

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

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

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

### Hinge cup dimensions



### Cover cap



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

Part no.

Cover cap **70.7503**

### Abbreviations

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

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

| Straight-arm | Self close      |
|--------------|-----------------|
| Screw-on     | <b>71T7500D</b> |
| Press-in     | <b>71T7530D</b> |



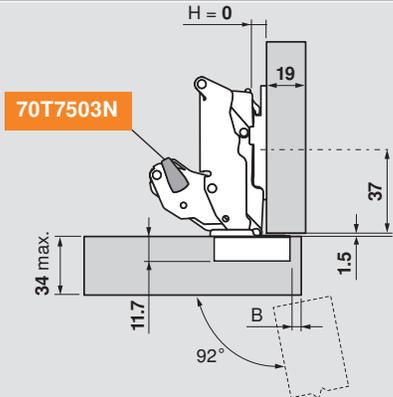
# CLIP top 125° special applications

## Hinges



CLIP top

### Maximum door thickness

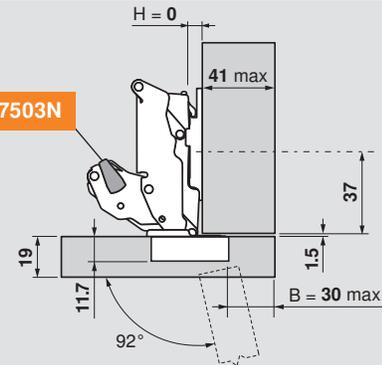


70T7503N

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

| H                   | Overlay |    |    |    |    |    |
|---------------------|---------|----|----|----|----|----|
| 0                   | 14      | 15 | 16 | 17 | 18 | 19 |
|                     | 3       | 4  | 5  | 6  | 7  | 8  |
| B = boring distance |         |    |    |    |    |    |

### Maximum door overlay



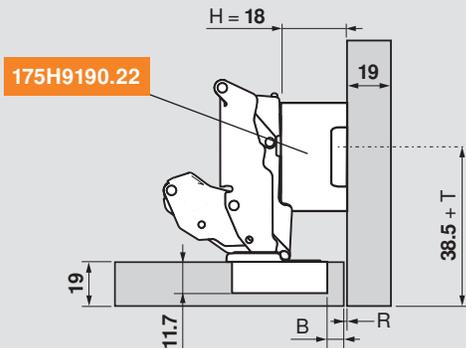
70T7503N

**NOTE:** Must use angle restriction clip to achieve application

| H                   | Overlay |    |    |    |
|---------------------|---------|----|----|----|
| 0                   | 36      | 38 | 39 | 41 |
|                     | 25      | 27 | 28 | 30 |
| B = boring distance |         |    |    |    |

**NOTE:** Inset application can also be achieved with a straight-arm hinge with a 18 mm plate. Setback of mounting plate would be 38.5 mm + door thickness.

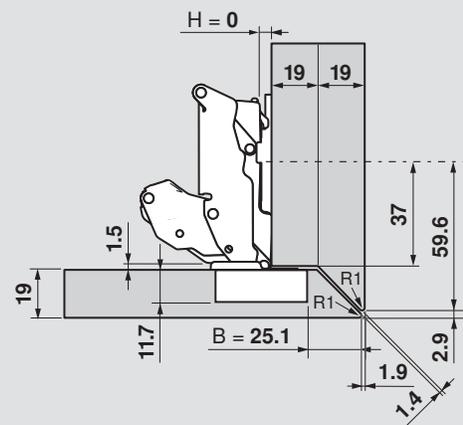
### Inset panel application



175H9190.22

| H                   | Reveal |     |     |     |     |   |
|---------------------|--------|-----|-----|-----|-----|---|
| 18                  | 4.5    | 3.5 | 2.5 | 1.5 | 0.5 | - |
|                     | 3      | 4   | 5   | 6   | 7   | 8 |
| B = boring distance |        |     |     |     |     |   |

### Mitered door with large overlay



**For all special applications, a trial application is always recommended**

**NOTE:** All 125° special applications can be achieved in face frame cabinets by blocking out behind the frame

### Angle restriction clip



- For use with zero protrusion hinges
- Gray nylon

Part no.

92° restriction clip **70T7503N**

### BLUMOTION for doors

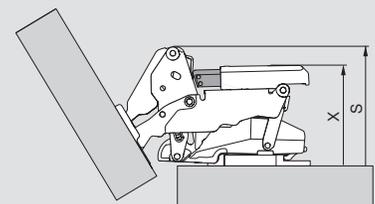


- For use with zero protrusion hinges
- Designed for one BLUMOTION per self closing hinge, however quantity may vary depending on door size and weight

Part no.

BLUMOTION for doors **973A7000**

### Protrusion dimensions

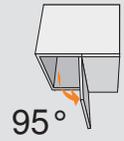


|                     |        |
|---------------------|--------|
| Hinge               | S = 63 |
| BLUMOTION for doors | X = 57 |

# Hinges



## CLIP top 95° inset blind corner



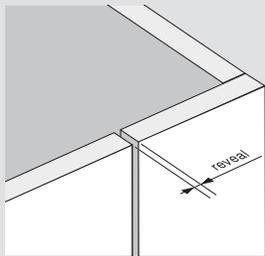
### Features

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

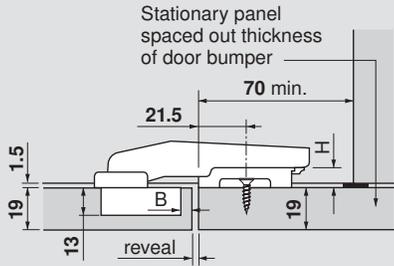
| Minimum reveal table |     |     |     |     |     |     |                    |
|----------------------|-----|-----|-----|-----|-----|-----|--------------------|
| 3                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |                    |
| 4                    | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 |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

Thickness greater than 24 trial recommended

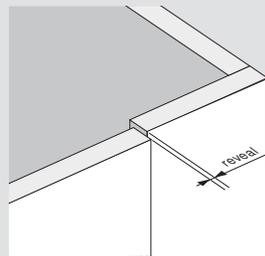
### Flush door applications



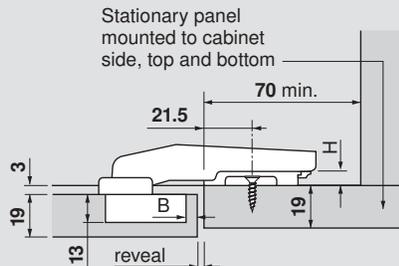
Back of door is flush with stationary panel



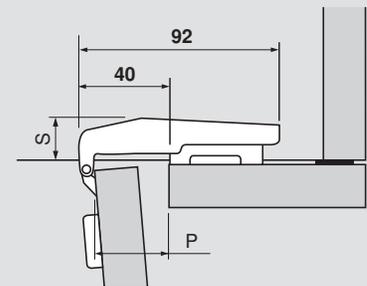
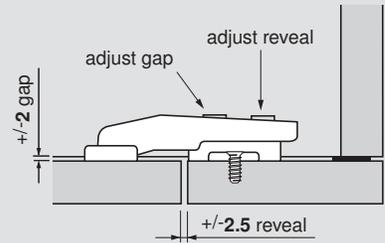
### Offset door applications



Stationary panel mounted to cabinet side, top and bottom



### Adjustments and clearances



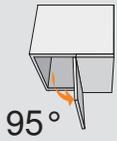
| H | Reveal              |   |   |   |   | P    | S  |
|---|---------------------|---|---|---|---|------|----|
| 3 | 5                   | 4 | 3 | 2 | 1 | 33.5 | 21 |
|   | 3                   | 4 | 5 | 6 | 7 |      |    |
|   | B = boring distance |   |   |   |   |      |    |

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

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

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

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



## CLIP top 95° overlay blind corner

## Hinges



### Features

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

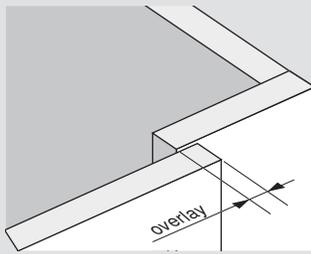
| Minimum reveal table |            |            |            |            |            |            |
|----------------------|------------|------------|------------|------------|------------|------------|
| <b>3</b>             | <b>0.1</b> | <b>0.3</b> | <b>0.4</b> | <b>0.5</b> | <b>0.9</b> | <b>1.3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

T = door thickness

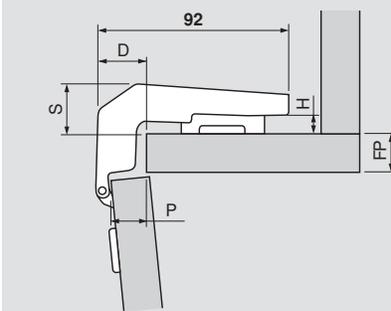
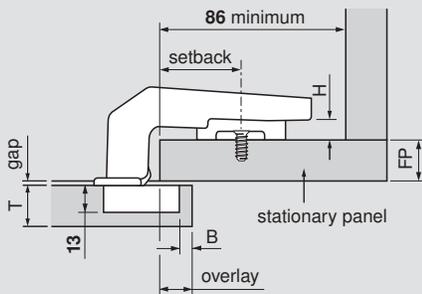
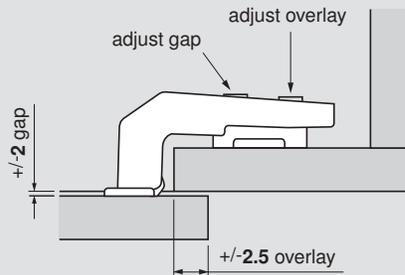
Thickness greater than **24** trial recommended

CLIP top

### Overlay application



### Adjustments and clearances



**NOTE:** Door gap can be adjusted  $\pm 2$  mm

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

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

| H        | Gap                        |           |           | S         |
|----------|----------------------------|-----------|-----------|-----------|
| <b>0</b> | <b>7</b>                   | <b>4</b>  | <b>1</b>  | <b>21</b> |
| <b>3</b> | <b>4</b>                   | <b>1</b>  | <b>-</b>  | <b>24</b> |
| <b>6</b> | <b>1</b>                   | <b>-</b>  | <b>-</b>  | <b>27</b> |
|          | <b>16</b>                  | <b>19</b> | <b>22</b> |           |
|          | FP = front panel thickness |           |           |           |

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

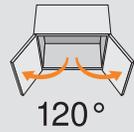
| Abbreviations |                         |
|---------------|-------------------------|
| D             | = Depth                 |
| FP            | = Front panel thickness |
| H             | = Plate height          |
| P             | = Door protrusion       |
| S             | = Side arm protrusion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

| Overlay blind corner | Self close        |
|----------------------|-------------------|
| INSERTA              | <b>79T9990B37</b> |

# Hinges



## CLIP top 120° aluminum door for BLUMOTION



### Features

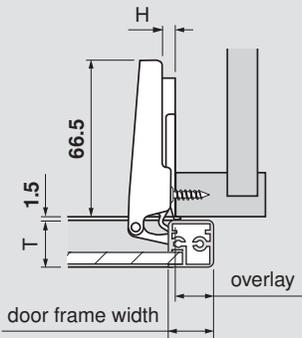
- For use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated

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

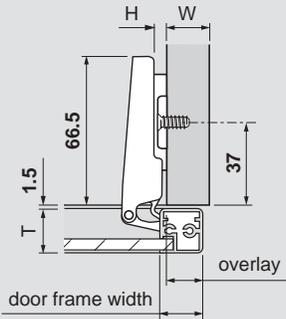
Thickness greater than 22 trial recommended

### Overlay

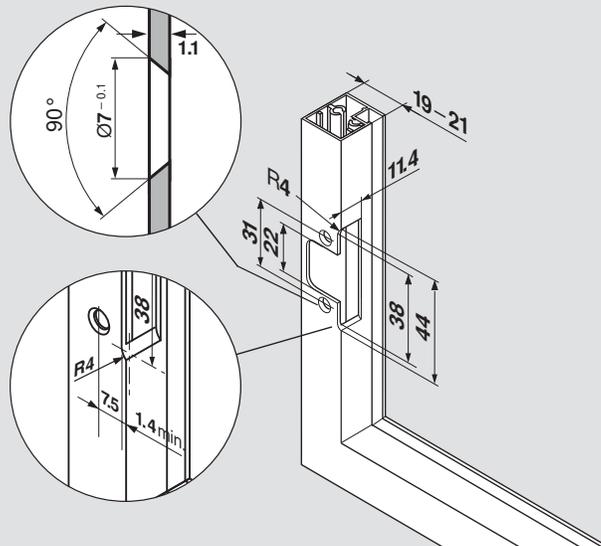
#### Frame



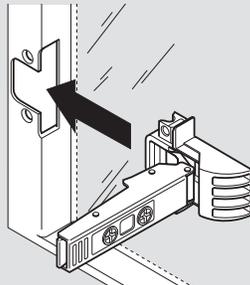
#### Panel



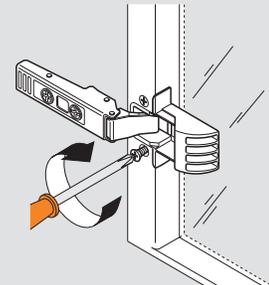
### Specifications



Insert hinges into machined openings



Attach with special screws provided with hinges (699.110)



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

Fixed boring distance

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

| Straight-arm | Self close |
|--------------|------------|
| Screw-on     | 73T550AB   |

### Abbreviations

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



# CLIP top 120° aluminum door

## Hinges



### Features

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

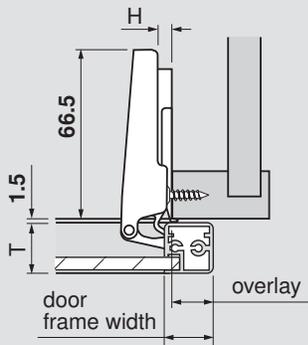
| Minimum reveal table |                    |     |     |     |     |
|----------------------|--------------------|-----|-----|-----|-----|
| 18                   | 1.5                | 1.9 | 2.4 | 2.9 | 3.7 |
| 19                   | 1.5                | 1.8 | 2.2 | 2.7 | 3.3 |
| 20                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

Thickness greater than 22 trial recommended

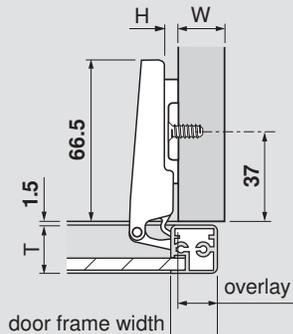
CLIP top

### Overlay

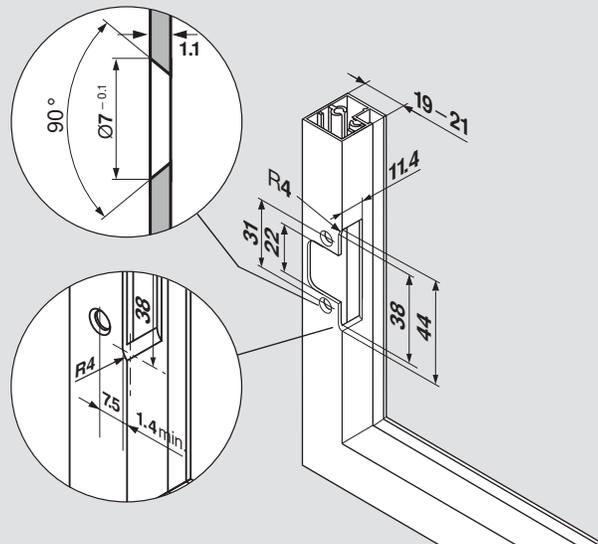
#### Frame



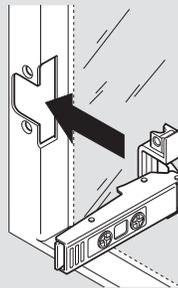
#### Panel



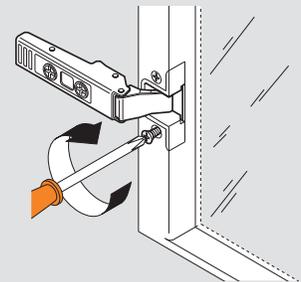
### Specifications



Insert hinges into machined openings



Attach with special screws provided with hinges (699.110)



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

Fixed boring distance

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

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

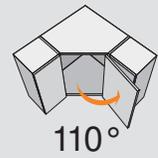
### Abbreviations

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

# Hinges

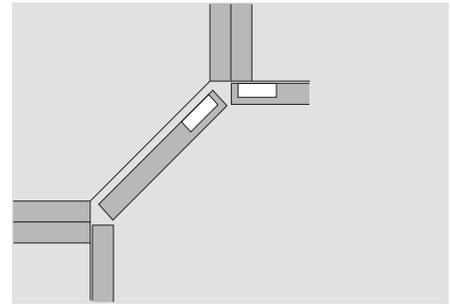


## CLIP top 110° diagonal 45°



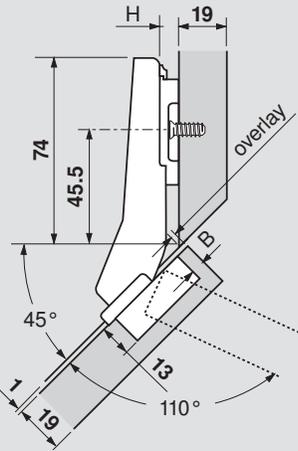
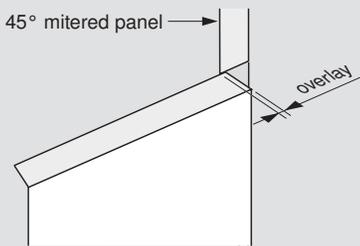
### Features

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

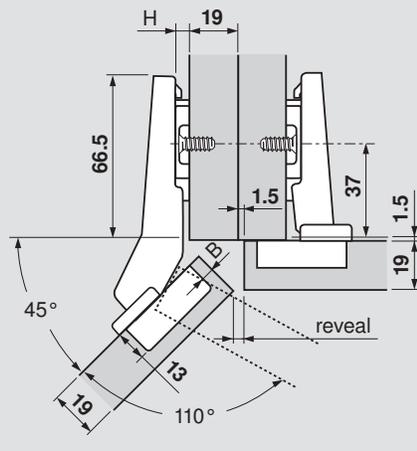
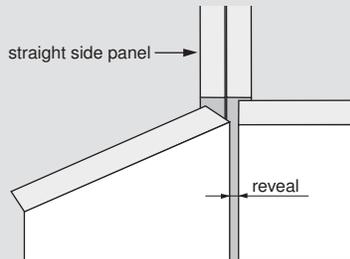


Thickness greater than 19 mm recommended

### Overlay application



### Inside corner



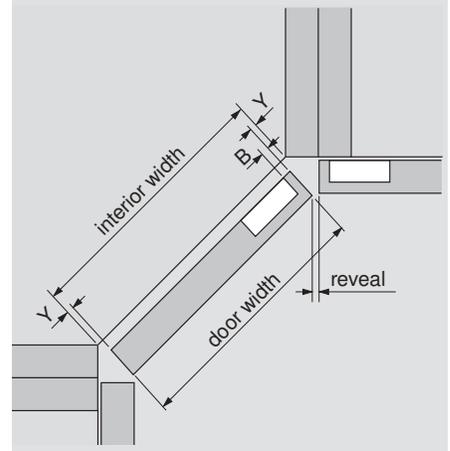
### Calculating door width

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

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

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

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



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

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

| Y = side gap                                   |     |     |     |
|--|-----|-----|-----|
| 5.5  | 4.5 | 3.5 | 2.5 |
| 3  | 4   | 5   | 6   |
| B = boring distance                            |     |     |     |
| <b>NOTE:</b> Based on 19 (3/4") door thickness |     |     |     |

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

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

| Abbreviations |                |
|---------------|----------------|
| H             | = Plate height |
| Y             | = Side gap     |



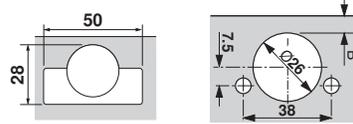
# CLIP top 95° mini

## Hinges



### Features

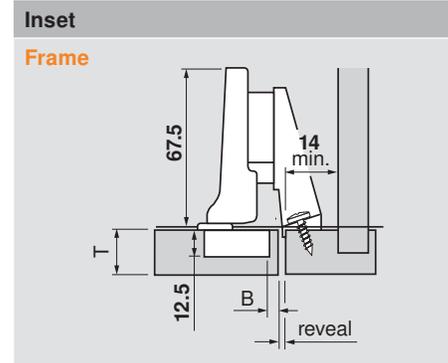
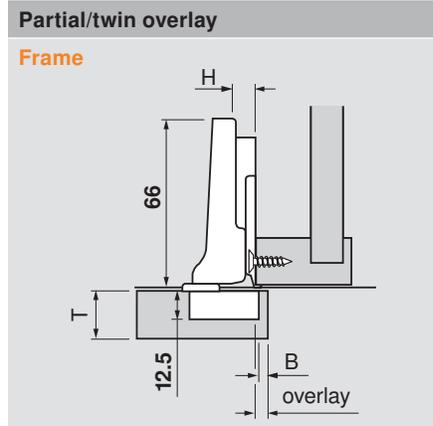
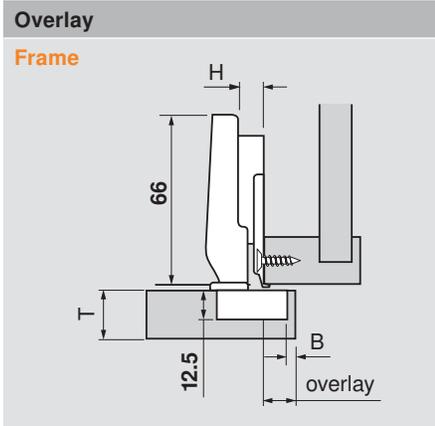
- For small doors or doors with small frames
- Side adjustment of +0.5 mm to -3.5 mm
- 26 mm drill bit required (1" cannot be used)
- Three-dimensional adjustment
- For door thicknesses up to 26 (1")
- All metal hinge, nickel-plated



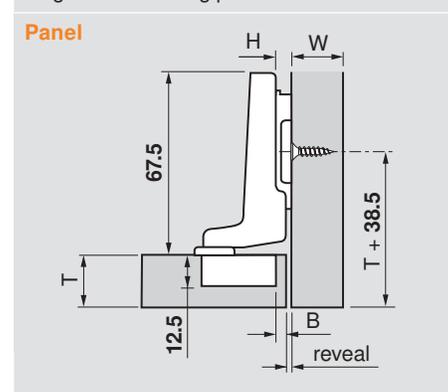
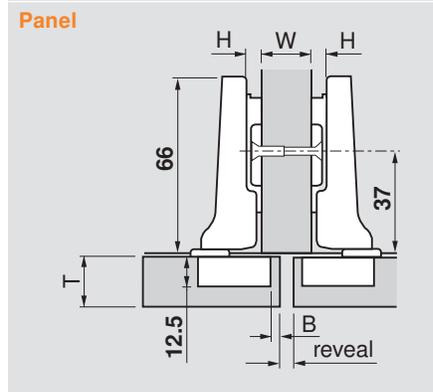
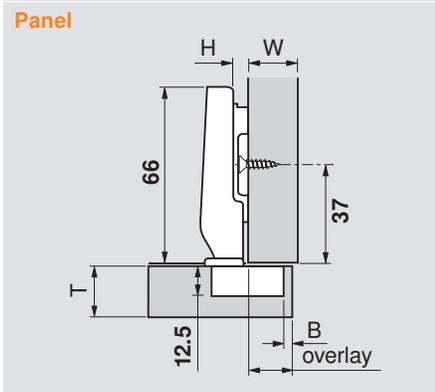
|   |                     | Minimum reveal table |     |     |     |     |     |     |
|---|---------------------|----------------------|-----|-----|-----|-----|-----|-----|
| 3 | B = boring distance | 1.1                  | 2.2 | 3.0 | 3.8 | 5.5 | 7.3 | 9.1 |
|   |                     | 1.1        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

Thickness greater than 26 trial recommended

CLIP top



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



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

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

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

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

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

### Abbreviations

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

| Straight-arm | Self close |
|--------------|------------|
| Screw-on     | 71T0550    |

| Half-cranked | Self close |
|--------------|------------|
| Screw-on     | 71T0650    |

| Full-cranked | Self close |
|--------------|------------|
| Screw-on     | 71T0750    |

# Hinges



## CLIP top 95° glass door



### Features

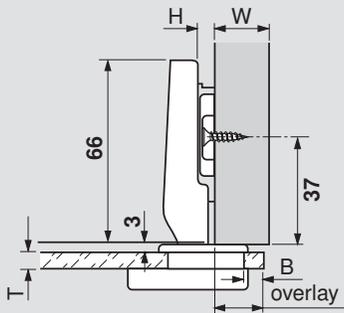
- For glass thickness of 4.5 mm to 7 mm
- Side adjustment of +0.5 mm to -3.5 mm
- Three-dimensional adjustment
- Fixing screws included (605.1100)
- 26 mm drill bit required (1" cannot be used)

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

Thickness greater than 7 trial recommended

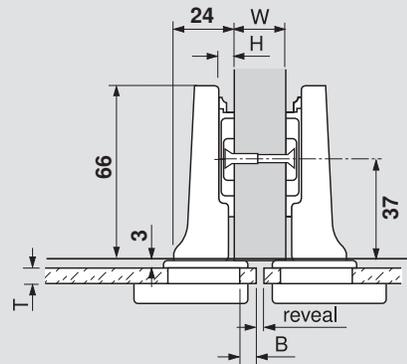
### Overlay

#### Panel



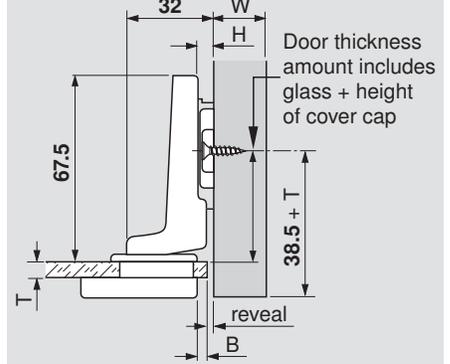
### Partial/twin overlay

#### Panel



### Inset

#### Panel

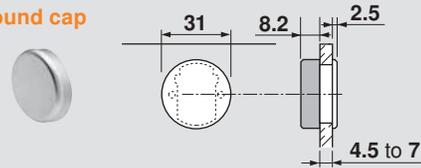


### Cover caps for door front

#### D-shape cap



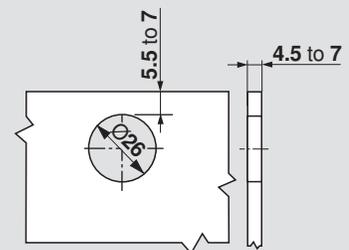
#### Round cap



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

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

### Boring pattern



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

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

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

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

### Abbreviations

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

| Straight-arm | Self close |
|--------------|------------|
| Screw-on     | 75T4100    |

| Half-cranked | Self close |
|--------------|------------|
| Screw-on     | 75T4200    |

| Full-cranked | Self close |
|--------------|------------|
| Screw-on     | 75T4300    |



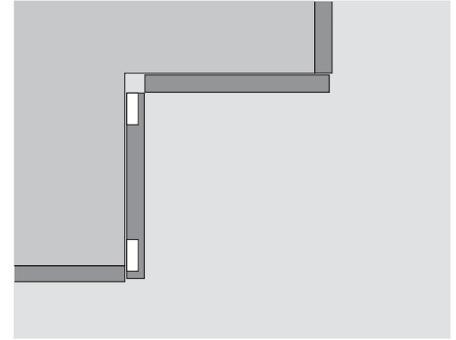
## CLIP top 60° bi-fold

## Hinges



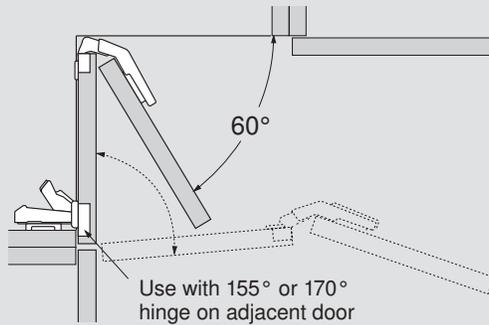
### Features

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



CLIP top

### Inside corner application



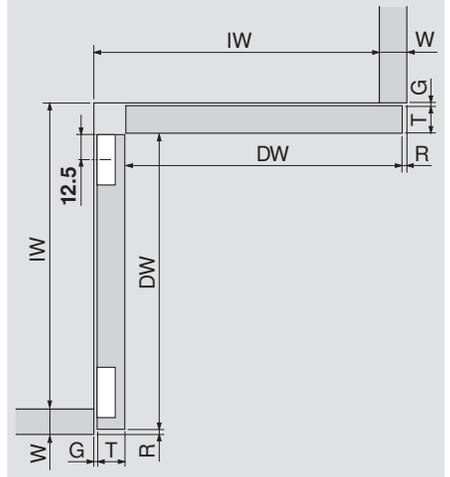
### Calculating door sizes

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

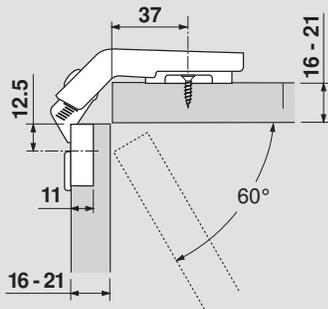
- Step 1.** Add the interior width to the side panel width (W)
- Step 2.** Subtract door thickness (T) and reveal (R)
- Step 3.** Subtract gap (G) and bumper thickness behind adjacent door

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

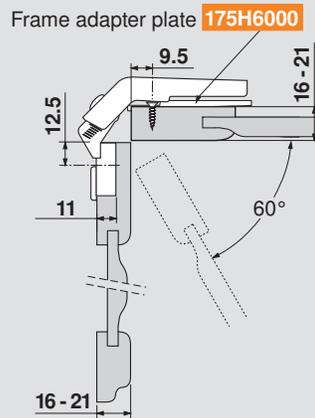
**Example:**  $DW = (500 + 19) - 19 - 3 - 1$   
 $DW = 496 \text{ mm}$



### With flat panel doors

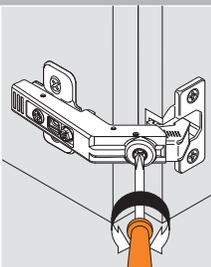


### With profile doors

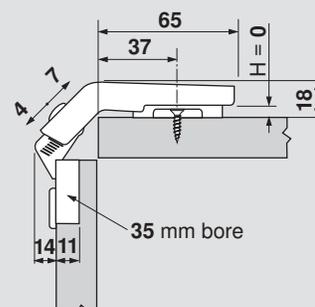


### Adjustment

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



### General specifications



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

### Abbreviations

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

# Hinges



## CLIP 107°



### Features

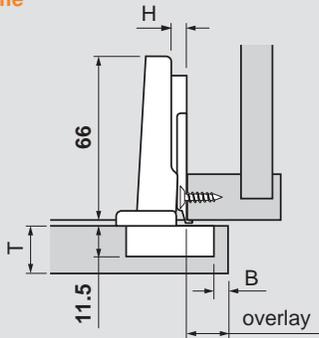
- Three-dimensional adjustment
- For door thicknesses up to **22** (7/8")
- 86° angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

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

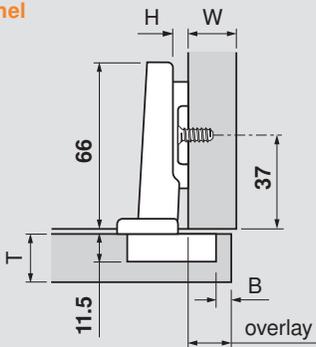
Thickness greater than **22** trial recommended

### Overlay

#### Frame



#### Panel



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

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

#### Straight-arm



#### Self close

**75M1580**

### Abbreviations

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



# CLIP 100°

# Hinges



### Features

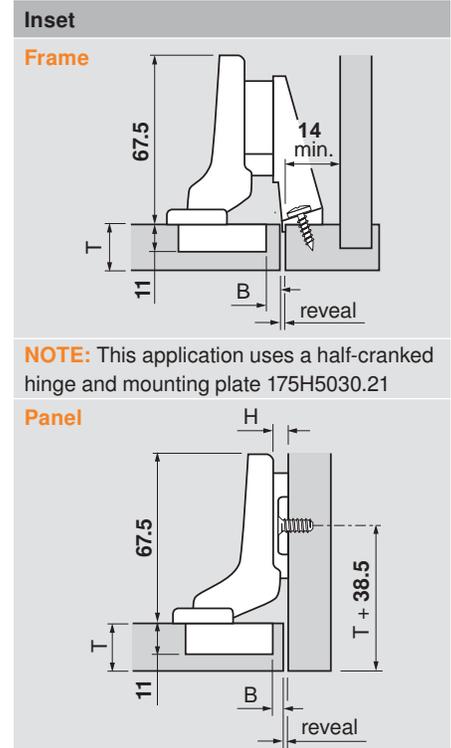
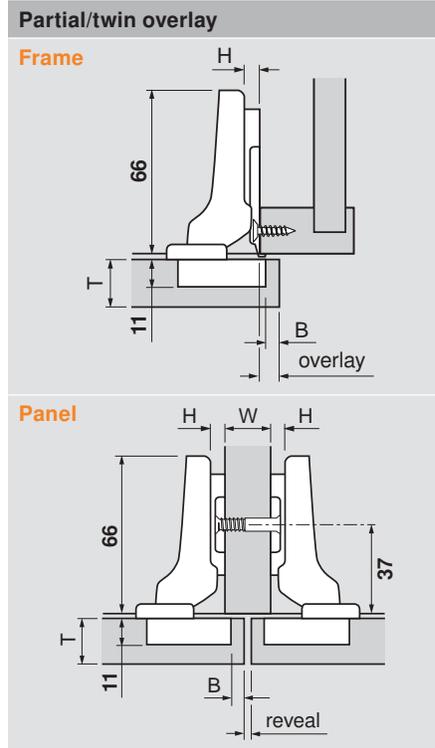
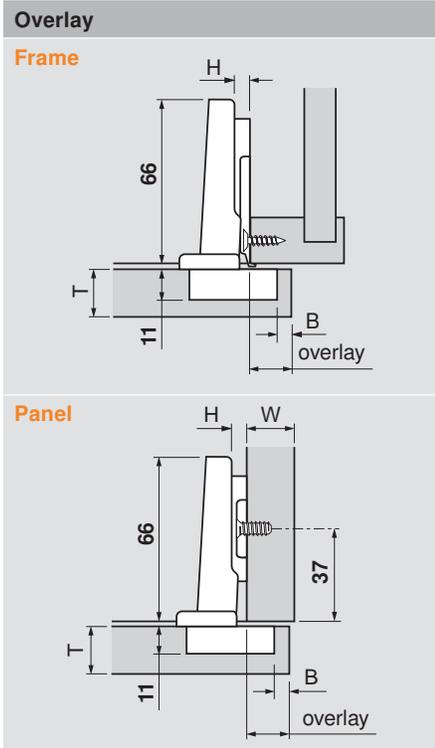
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

| Minimum reveal table |     |     |     |     |     |     |
|----------------------|-----|-----|-----|-----|-----|-----|
| 3                    | 0.5 | 0.9 | 1.1 | 1.4 | 2.3 | 3.6 |
| 4                    | 0.5 | 0.8 | 1.0 | 1.3 | 2.0 | 3.3 |
| 5                    | 0.4 | 0.8 | 1.0 | 1.2 | 1.8 | 3.0 |
| 6                    | 0.4 | 0.8 | 0.9 | 1.1 | 1.7 | 2.8 |
| B = boring distance  | 16  | 18  | 19  | 20  | 22  | 24  |

T = door thickness

Thickness greater than 24 trial recommended

CLIP



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

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

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

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

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

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

### Abbreviations

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

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

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

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

## Angled hinges from +45° to -45°

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

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

### Step 1.

On page 47, the angle-to-style cross-reference provides an overview of all the angled hinge applications available to assist with your specific application.

### Step 2.

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

### Step 3.

Cross-reference the angle to the style to find the hinge/plate/wedge combination and the specification number. Specifications on pages 48 to 54 are in numerical order and show all the details.

# Angled hinges CLIP top BLUMOTION and CLIP top

## Hinges



### Positive angle hinges

NOTE: **CLIP top BLUMOTION** CLIP top

|      |                  |      |                  |          |                  |           |                  |
|------|------------------|------|------------------|----------|------------------|-----------|------------------|
|      | Part no.         |      | Part no.         |          | Part no.         |           | Part no.         |
| +15° | <b>79B9494</b>   | +20° | <b>79B9595</b>   | +30° II* | <b>79B9596</b>   | +30° III* | <b>79B9496</b>   |
| +15° | <b>79A9494BT</b> | +20° | <b>79A9595BT</b> | +30° II* | <b>79A9596BT</b> | +30° III* | <b>79A9496BT</b> |

|         |                  |          |                 |           |                  |  |
|---------|------------------|----------|-----------------|-----------|------------------|--|
|         | Part no.         |          | Part no.        |           | Part no.         |  |
| +45° I* | <b>79B9698</b>   | +45° II* | <b>79B3598</b>  | +45° III* | <b>79B9498</b>   |  |
| +45° I* | <b>79A9698BT</b> | +45° II* | <b>79T5590B</b> | +45° III* | <b>79A9498BT</b> |  |

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

### Negative angle hinges

|      |                  |      |                  |      |                  |
|------|------------------|------|------------------|------|------------------|
|      | Part no.         |      | Part no.         |      | Part no.         |
| -15° | <b>79B3493</b>   | -30° | <b>79B3491</b>   | -45° | <b>79B3490</b>   |
| -15° | <b>79A5493BT</b> | -30° | <b>79A5491BT</b> | -45° | <b>79A5490BT</b> |

### Standard thick door hinges used in angled applications

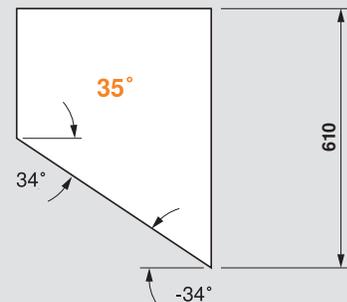
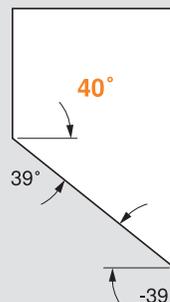
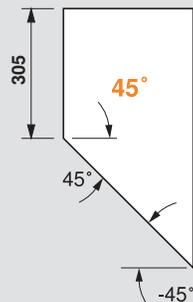
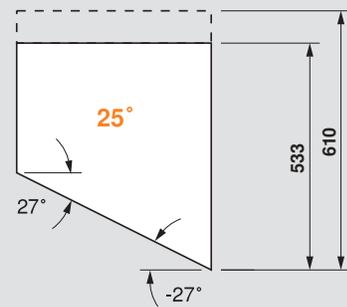
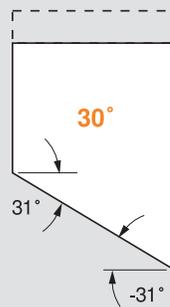
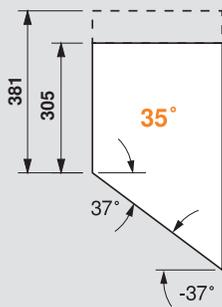
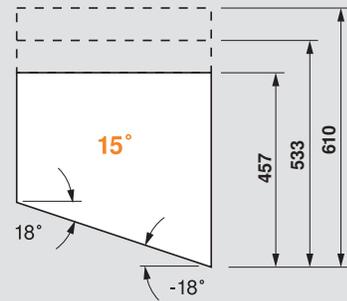
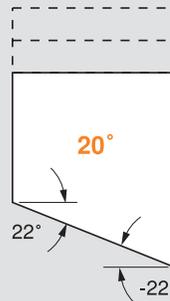
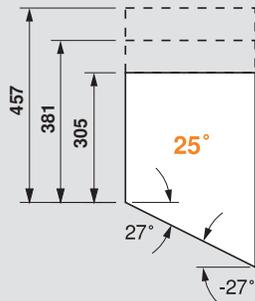
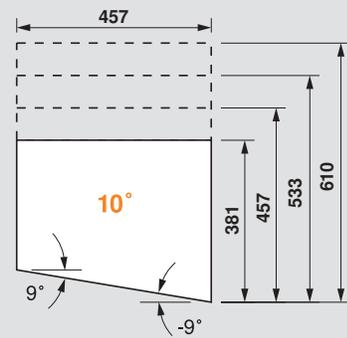
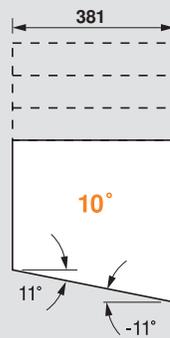
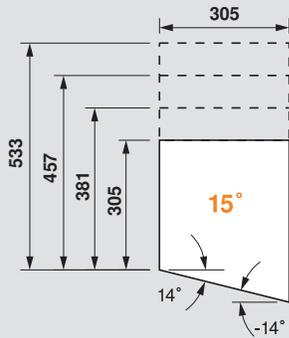
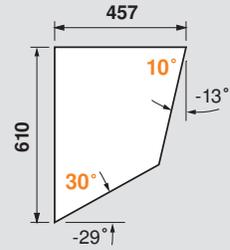
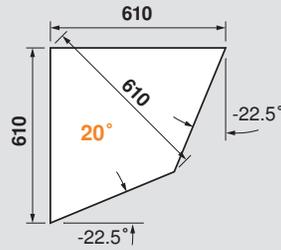
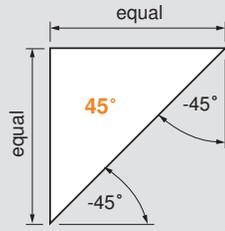
|                  |                 |                  |                 |                  |                 |
|------------------|-----------------|------------------|-----------------|------------------|-----------------|
|                  | Part no.        |                  | Part no.        |                  | Part no.        |
| 95° straight-arm | <b>71B9590</b>  | 95° half-cranked | <b>71B9690</b>  | 95° full-cranked | <b>71B9790</b>  |
| 95° straight-arm | <b>71T9590B</b> | 95° half-cranked | <b>71T9690B</b> | 95° full-cranked | <b>71T9790B</b> |

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

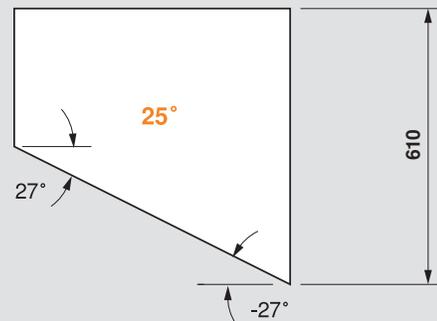
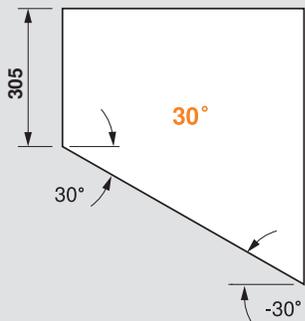
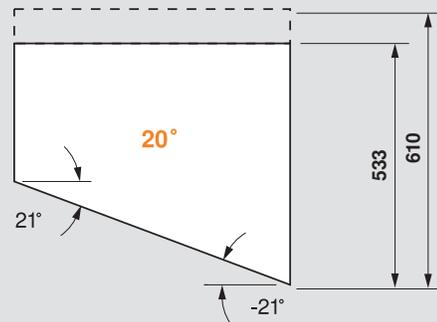
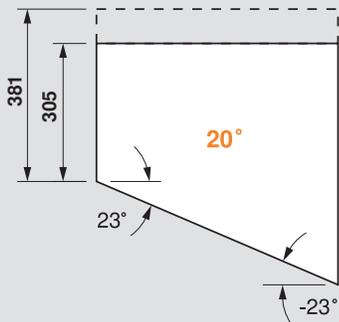
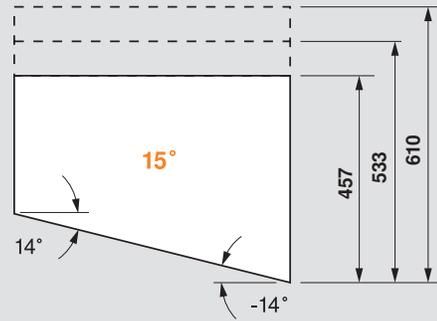
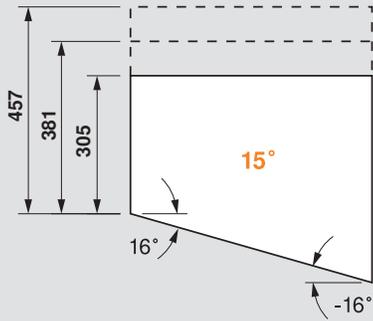
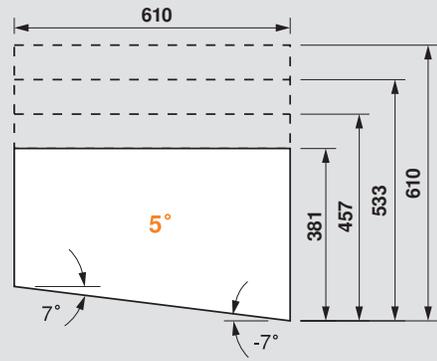
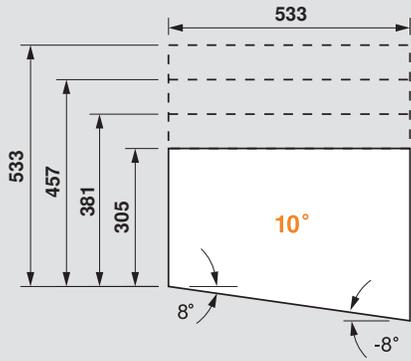
|                |                 |                |                 |
|----------------|-----------------|----------------|-----------------|
| 2 mm thickness | 4 mm thickness  | 5 mm thickness | 7 mm thickness  |
|                |                 |                |                 |
| Part no.  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

Angled hinges

Match desired configuration to angle-to-style cross-reference chart on page 47



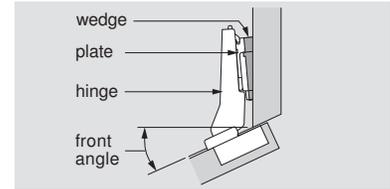
Match desired configuration to angle-to-style cross-reference chart on page 47



### Application number

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

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

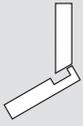


### Positive angles

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

### Negative angles

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



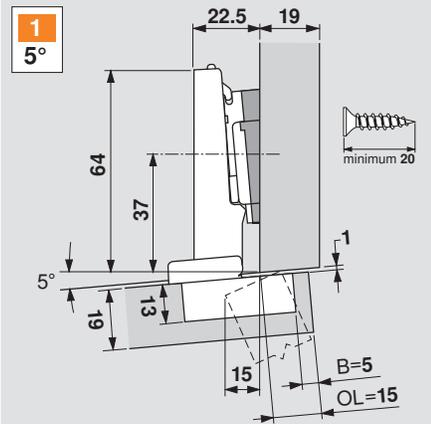
## Maximum overlay specifications

## Hinges

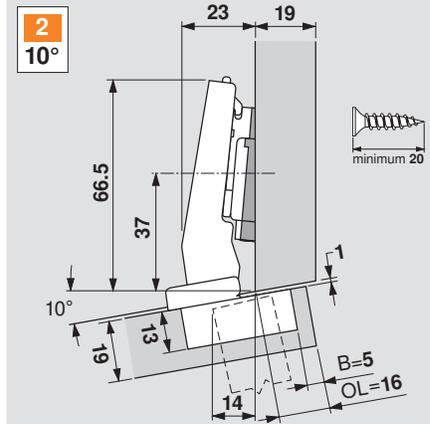


### Positive angle applications

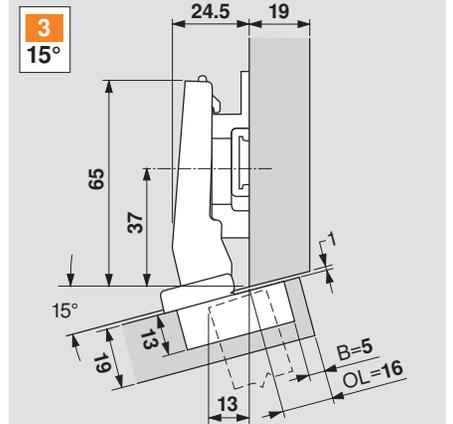
NOTE: CLIP top BLUMOTION CLIP top



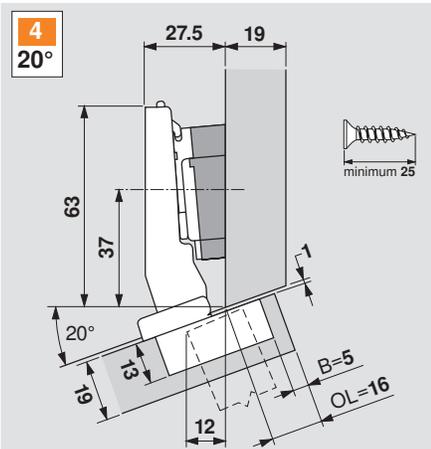
| Hinge    | Mounting plate | Wedge    |
|----------|----------------|----------|
| 71B9590  | 173H7100       | 171A5010 |
| 71T9590B | 173H7100       | 171A5010 |



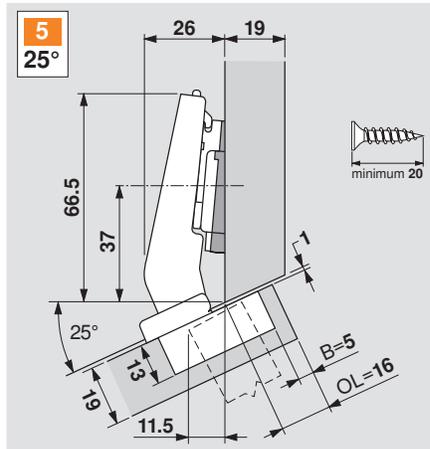
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9494   | 173H7100       | 171A5500 |
| 79A9494BT | 173H7100       | 171A5500 |



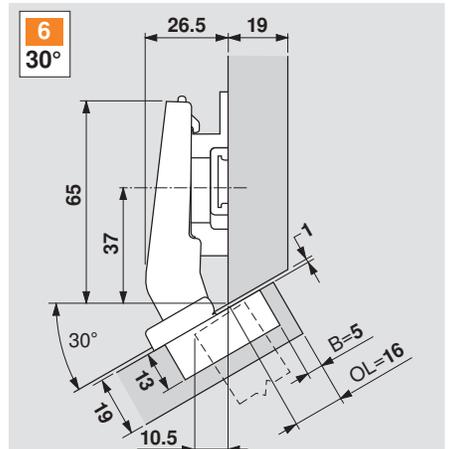
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9494   | 175H9160       | -     |
| 79A9494BT | 175H9160       | -     |



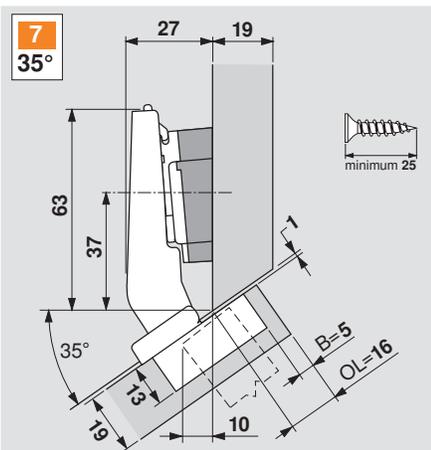
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9494   | 173H7100       | 171A5070 |
| 79A9494BT | 173H7100       | 171A5070 |



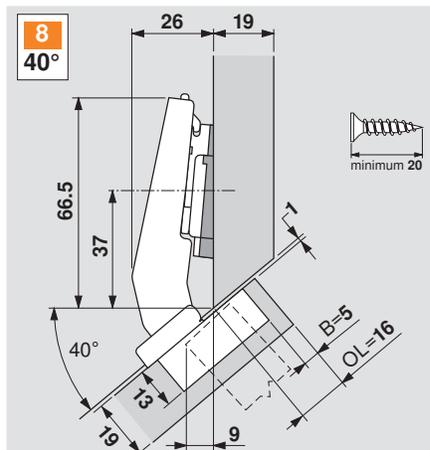
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9496   | 173H7100       | 171A5500 |
| 79A9496BT | 173H7100       | 171A5500 |



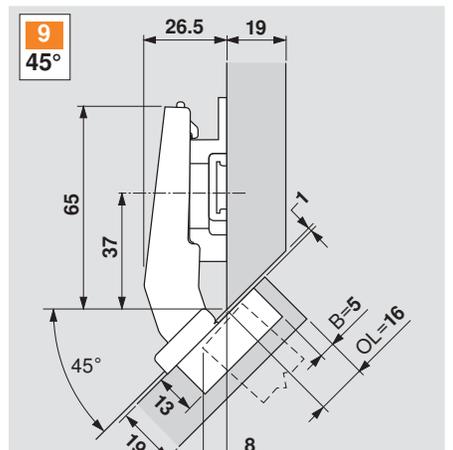
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9496   | 175H9160       | -     |
| 79A9496BT | 175H9160       | -     |



| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9496   | 173H7100       | 171A5070 |
| 79A9496BT | 173H7100       | 171A5070 |



| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9498   | 173H7100       | 171A5500 |
| 79A9498BT | 173H7100       | 171A5500 |



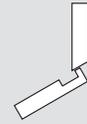
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9498   | 175H9160       | -     |
| 79A9498BT | 175H9160       | -     |

Angled hinges

# Hinges

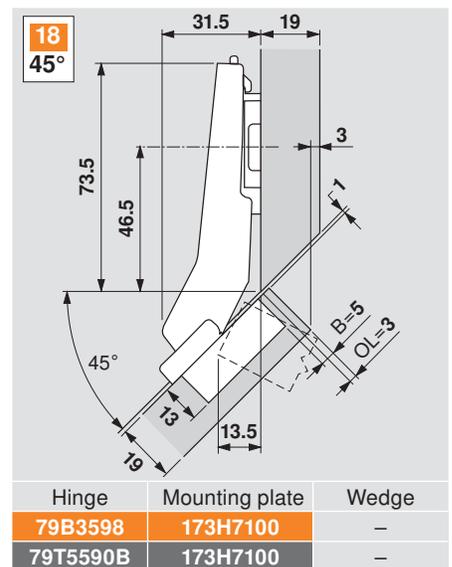
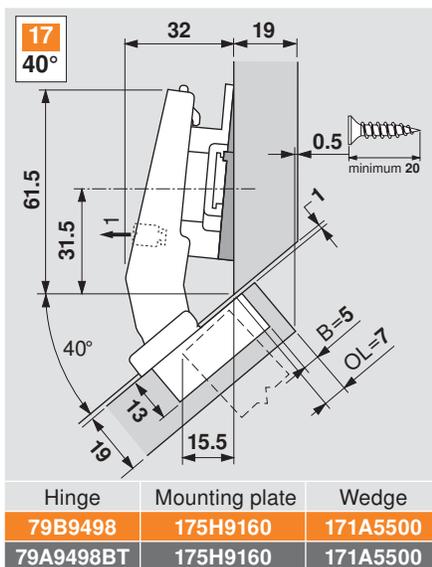
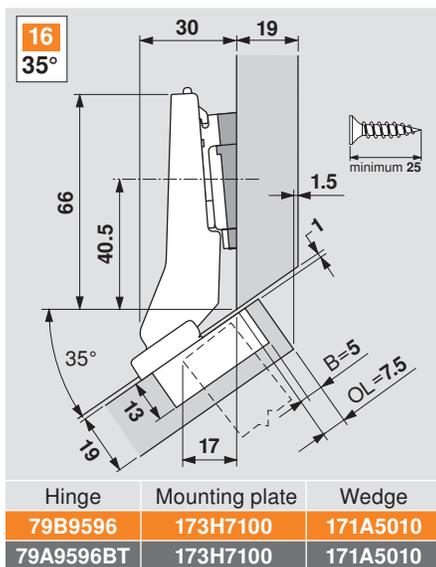
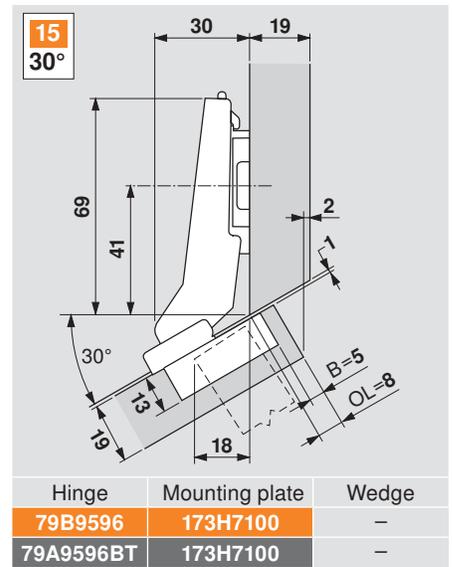
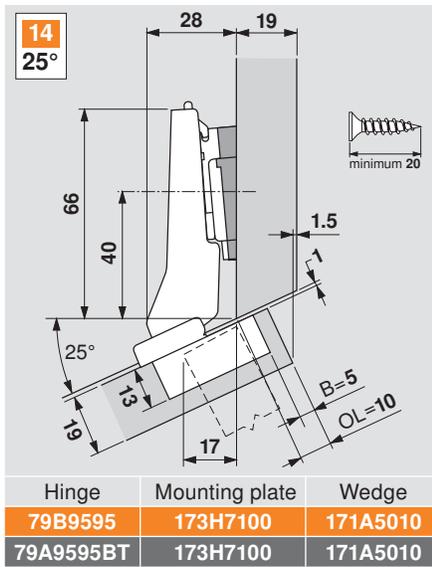
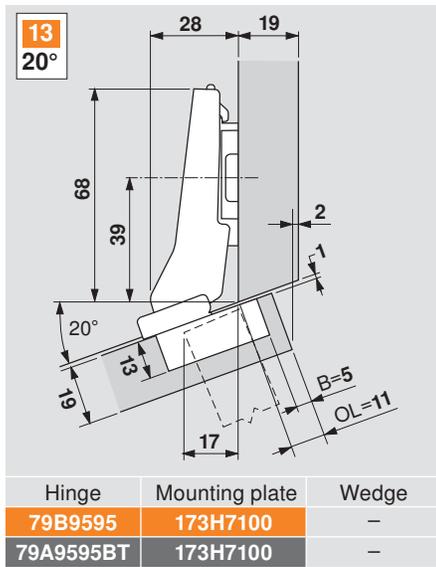
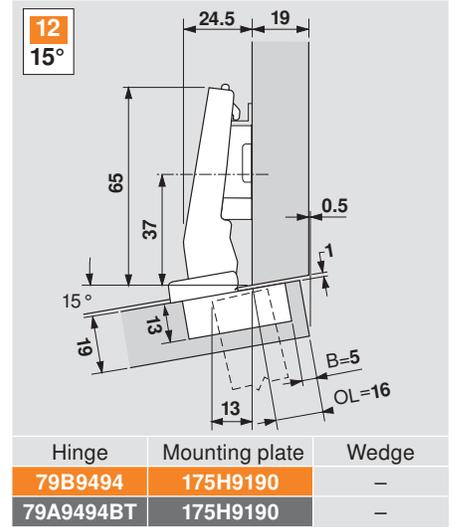
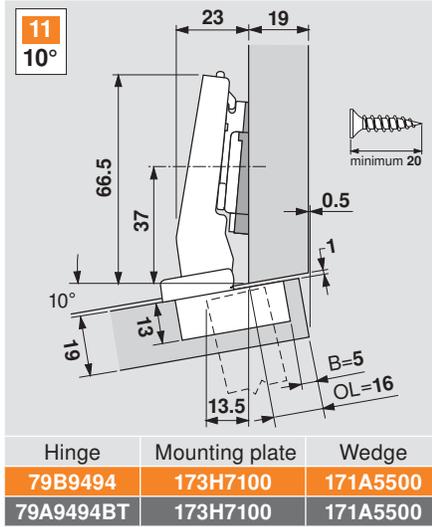
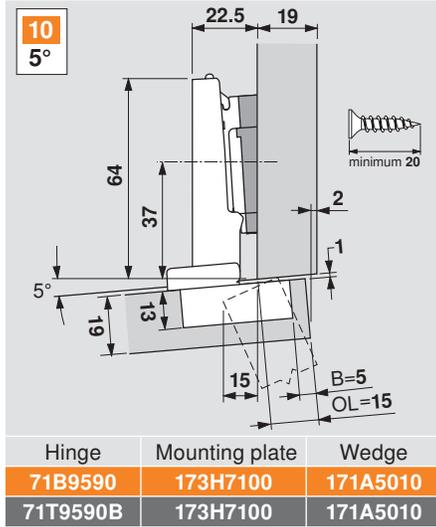


## Partial overlay specifications

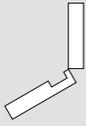


### Positive angle applications

NOTE: **CLIP top BLUMOTION** CLIP top



# Corner merge specifications

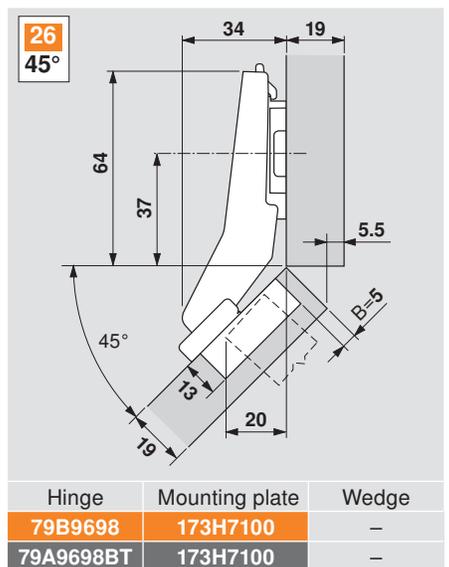
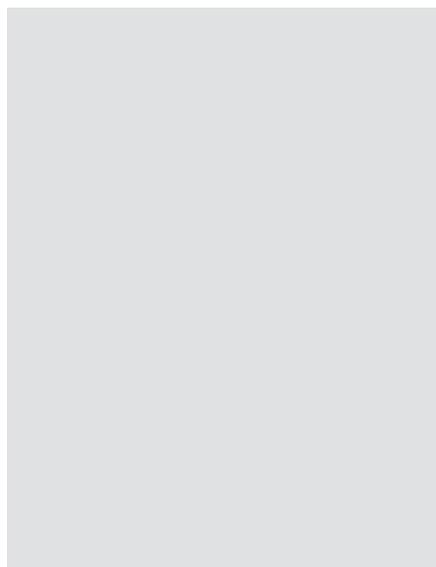
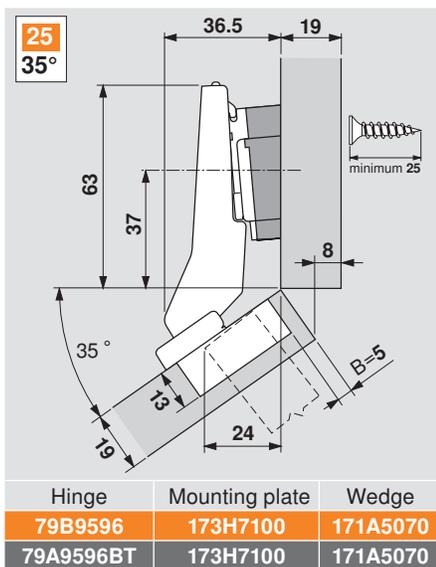
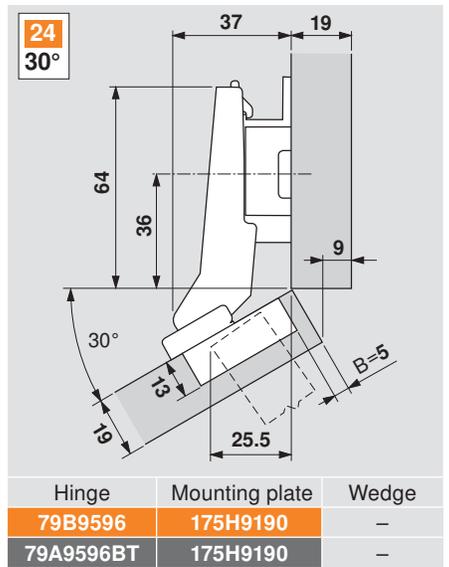
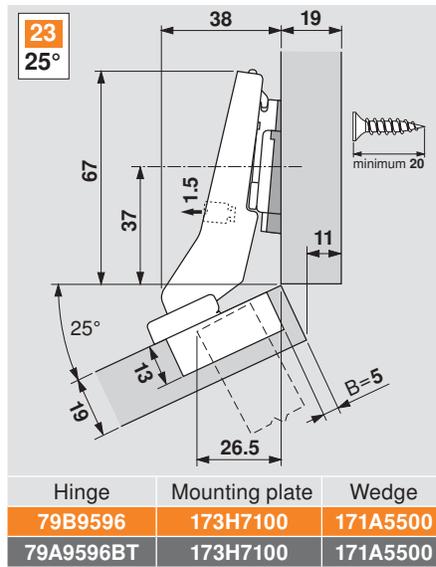
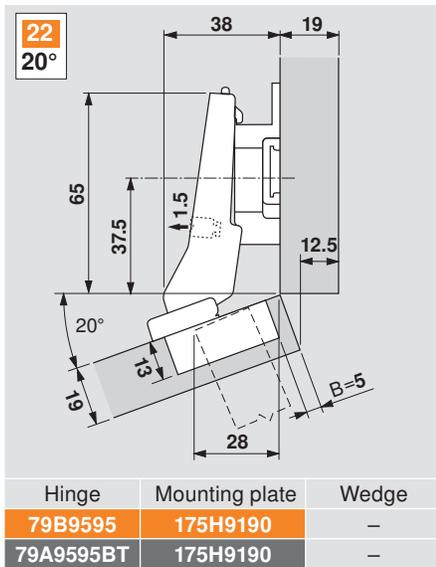
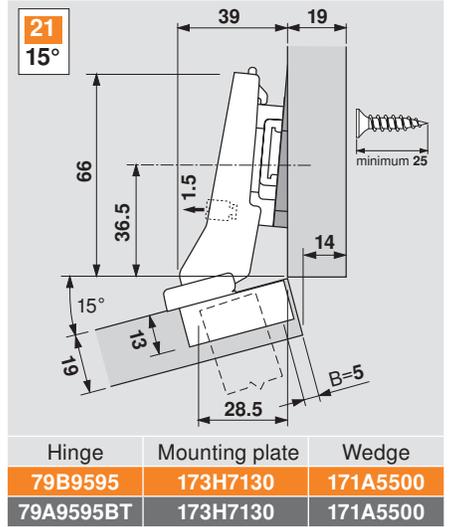
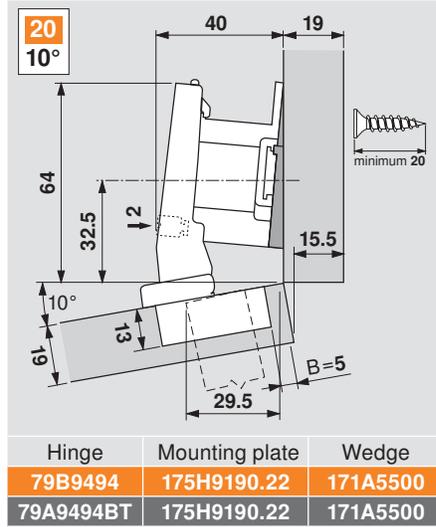
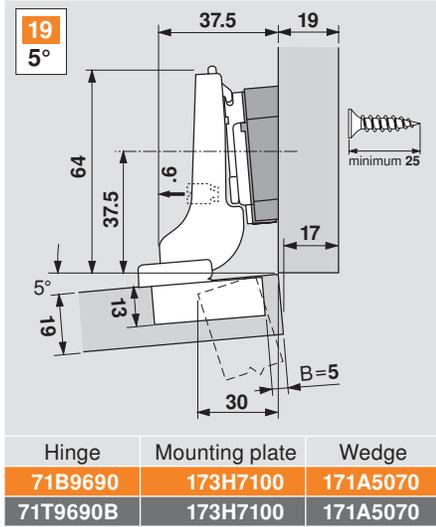


# Hinges



## Positive angle applications

NOTE: CLIP top BLUMOTION CLIP top

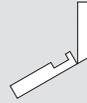


Angled hinges

# Hinges

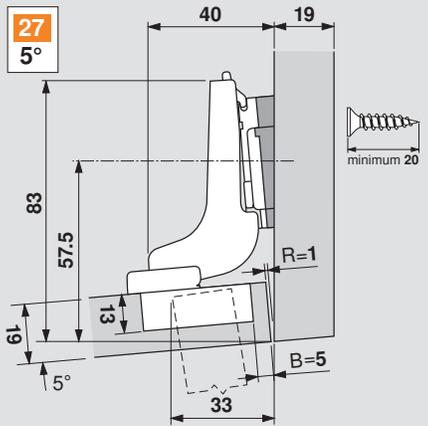


# Inset door specifications

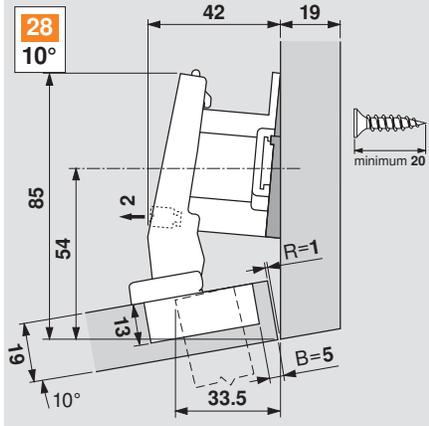


## Positive angle applications

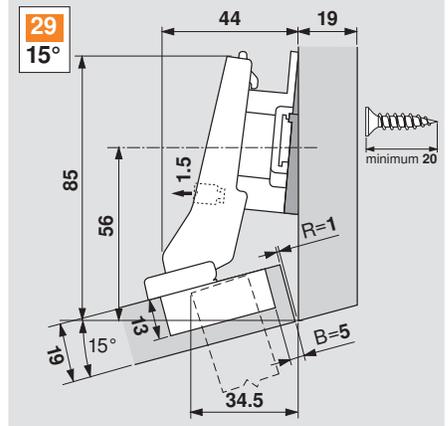
NOTE: **CLIP top BLUMOTION** CLIP top



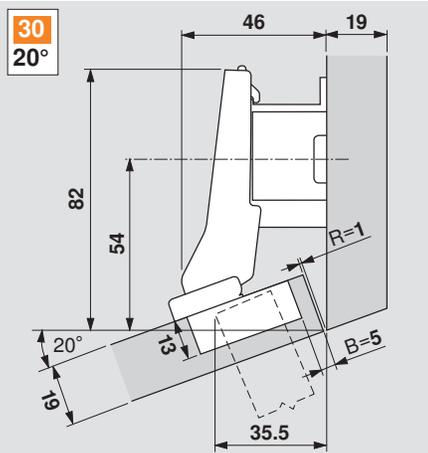
| Hinge    | Mounting plate | Wedge    |
|----------|----------------|----------|
| 71B9790  | 173H7100       | 171A5010 |
| 71T9790B | 173H7100       | 171A5010 |



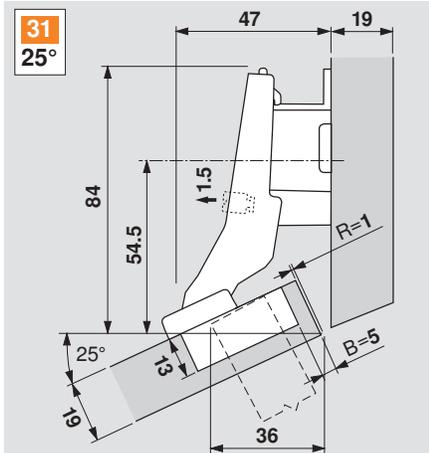
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9494   | 175H9190.22    | 171A5500 |
| 79A9494BT | 175H9190.22    | 171A5500 |



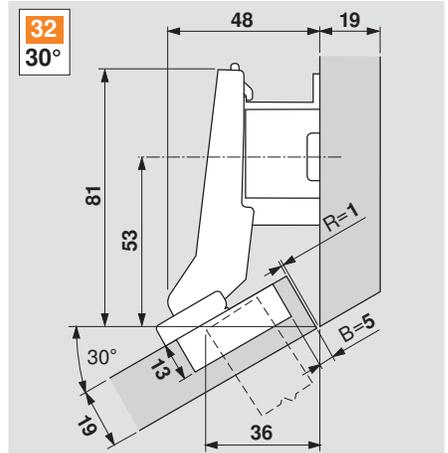
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9595   | 175H9190       | 171A5500 |
| 79A9595BT | 175H9190       | 171A5500 |



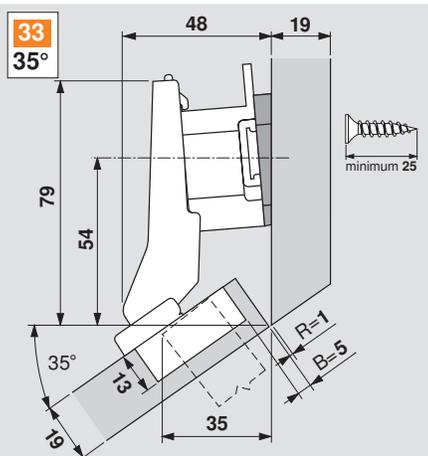
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9595   | 175H9190.22    | -     |
| 79A9595BT | 175H9190.22    | -     |



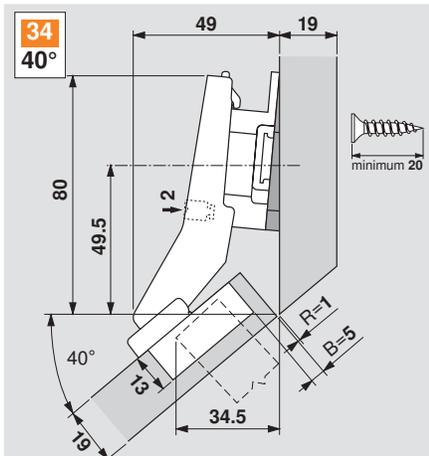
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9596   | 175H9190.22    | -     |
| 79A9596BT | 175H9190.22    | -     |



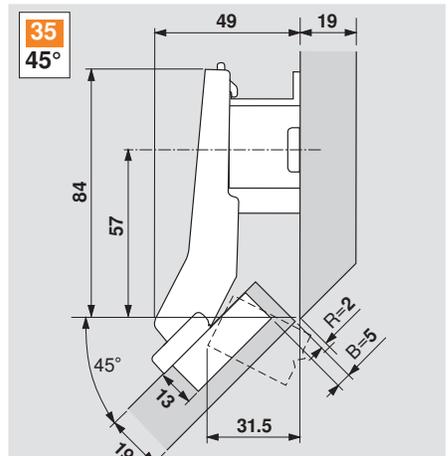
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9596   | 175H9190.22    | -     |
| 79A9596BT | 175H9190.22    | -     |



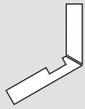
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9596   | 175H9190.22    | 171A5010 |
| 79A9596BT | 175H9190.22    | 171A5010 |



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



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



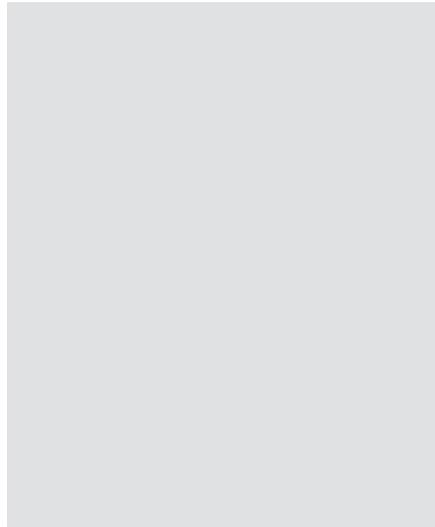
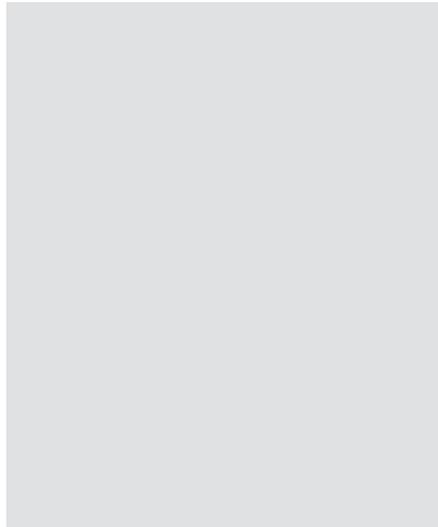
## Mitered corner specifications

## Hinges



### Positive angle applications

NOTE: CLIP top BLUMOTION CLIP top



**36**  
**15°**

NOTE:  
 ■ Miter door 65°  
 ■ Miter side 40°  
 ■ Radius edges to fit  
 Trial application recommended

| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9595   | 173H7100       | 171A5500 |
| 79A9595BT | 173H7100       | 171A5500 |

**37**  
**20°**

NOTE:  
 ■ Miter door 62°  
 ■ Miter side 48°  
 ■ Radius edges to fit  
 Trial application recommended

| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9595   | 175H9160       | -     |
| 79A9595BT | 175H9160       | -     |

**38**  
**25°**

NOTE:  
 ■ Miter door 70°  
 ■ Miter side 45°  
 ■ Radius edges to fit  
 Trial application recommended

| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9596   | 173H7100       | 171A5500 |
| 79A9596BT | 173H7100       | 171A5500 |

**39**  
**30°**

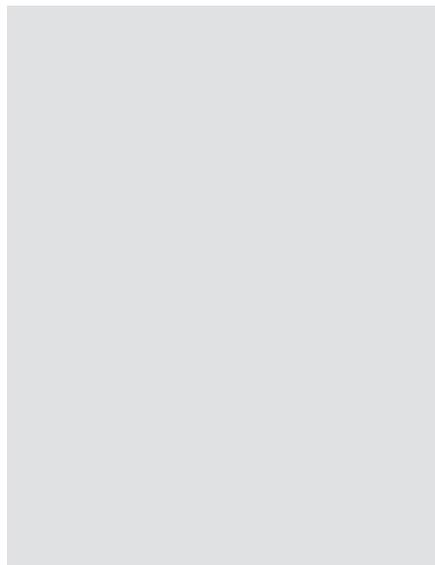
NOTE:  
 ■ Miter door 70°  
 ■ Miter side 50°  
 ■ Radius edges to fit  
 Trial application recommended

| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9596   | 173H7130       | -     |
| 79A9596BT | 173H7130       | -     |

**40**  
**35°**

NOTE:  
 ■ Miter door 70°  
 ■ Miter side 55°  
 ■ Radius edges to fit  
 Trial application recommended

| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B9596   | 173H7100       | 171A5040 |
| 79A9596BT | 173H7100       | 171A5040 |



**41**  
**45°**

NOTE:  
 ■ Miter door 67°  
 ■ Miter side 68°  
 ■ Radius edges to fit  
 Trial application recommended

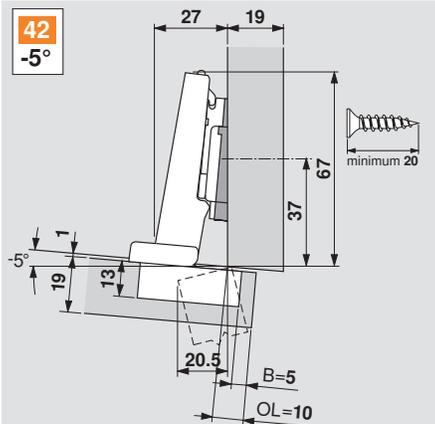
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B9698   | 173H7100       | -     |
| 79A9698BT | 173H7100       | -     |

Angled hinges

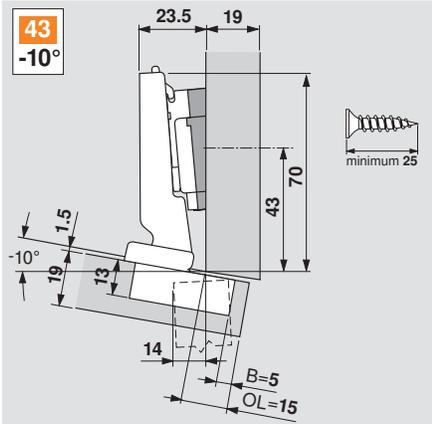


### Negative angle applications

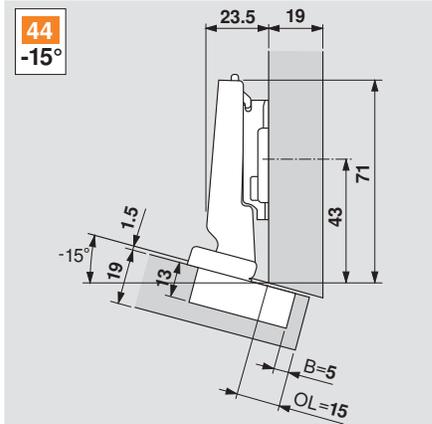
NOTE: **CLIP top BLUMOTION** CLIP top



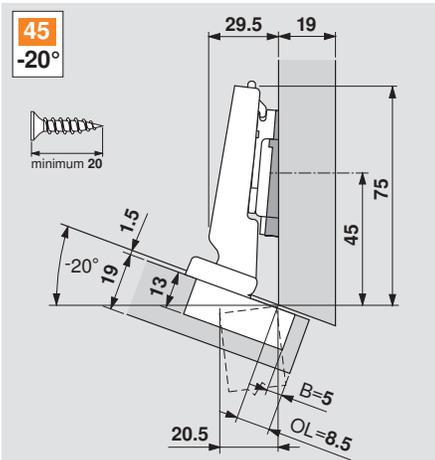
| Hinge    | Mounting plate | Wedge    |
|----------|----------------|----------|
| 71B9590  | 173H7100       | 171A5500 |
| 71T9590B | 173H7100       | 171A5500 |



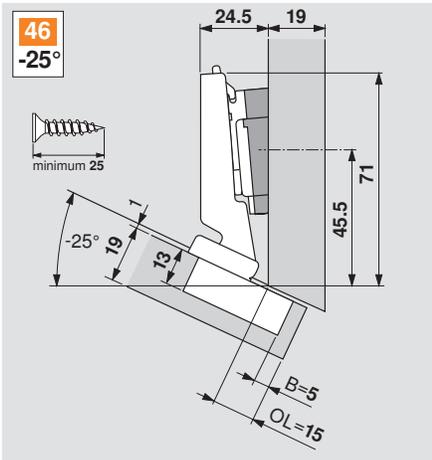
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B3493   | 173H7100       | 171A5010 |
| 79A5493BT | 173H7100       | 171A5010 |



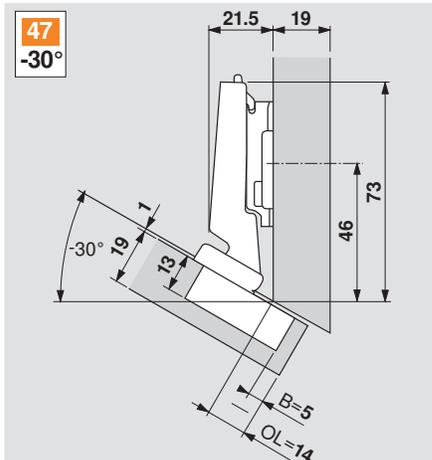
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B3493   | 173H7100       | -     |
| 79A5493BT | 173H7100       | -     |



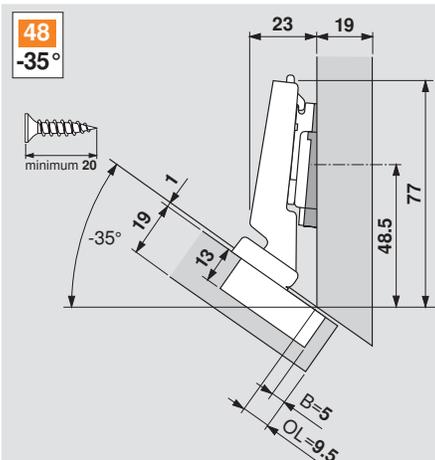
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B3493   | 173H7100       | 171A5500 |
| 79A5493BT | 173H7100       | 171A5500 |



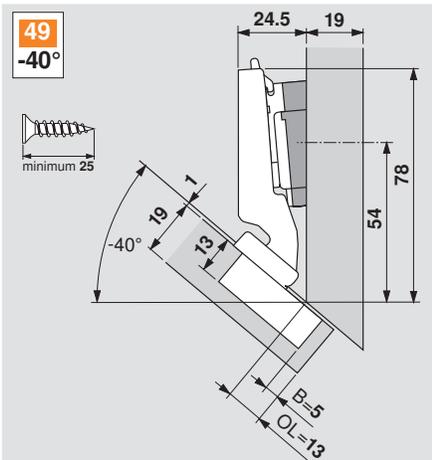
| Hinge     | Mounting plate | Wedge    |
|-----------|----------------|----------|
| 79B3491   | 173H7100       | 171A5040 |
| 79A5491BT | 173H7100       | 171A5040 |



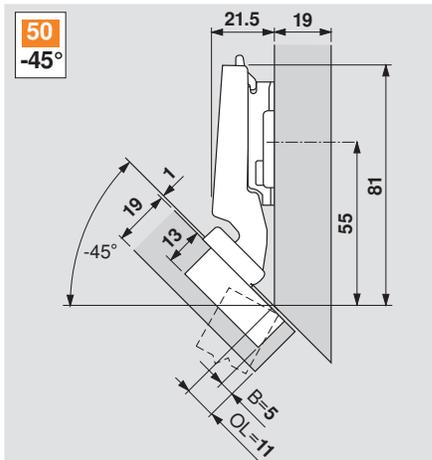
| Hinge     | Mounting plate | Wedge |
|-----------|----------------|-------|
| 79B3491   | 173H7130       | -     |
| 79A5491BT | 173H7130       | -     |



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



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



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

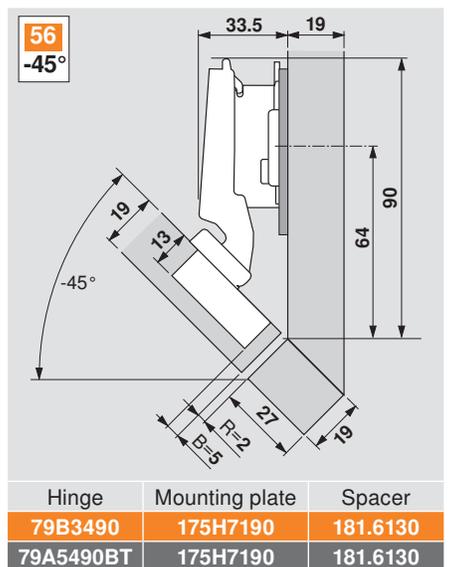
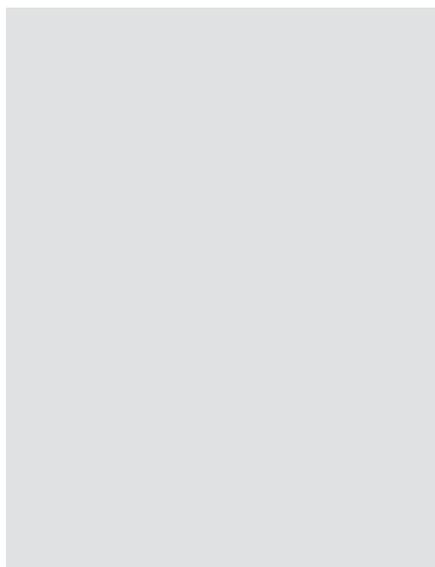
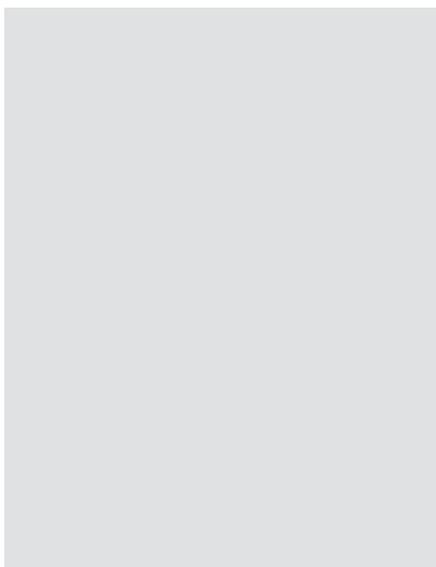
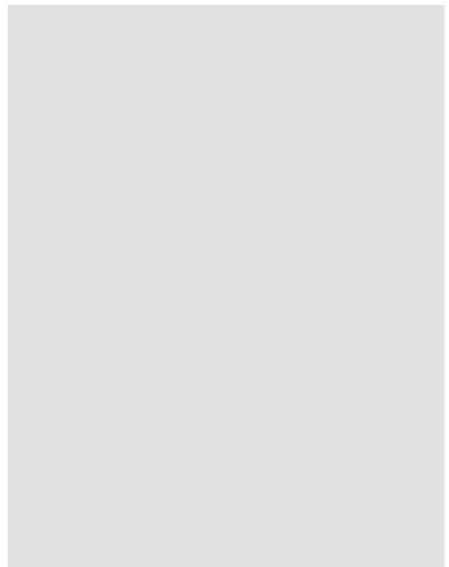
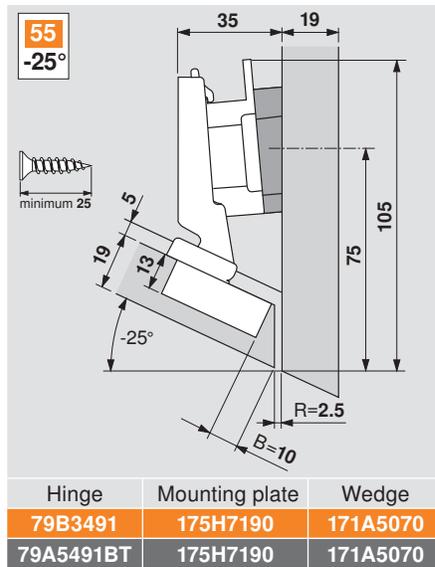
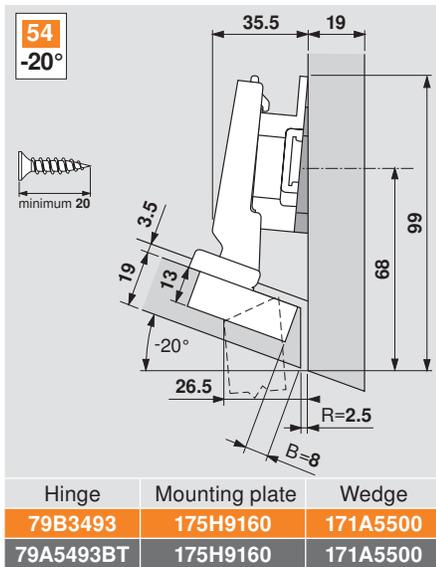
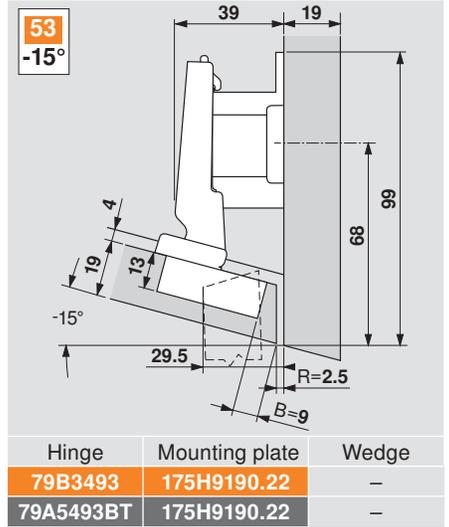
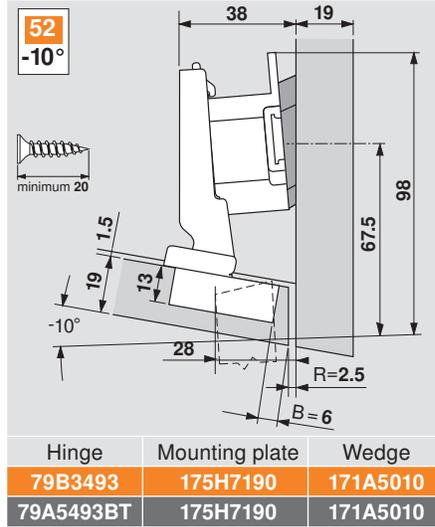
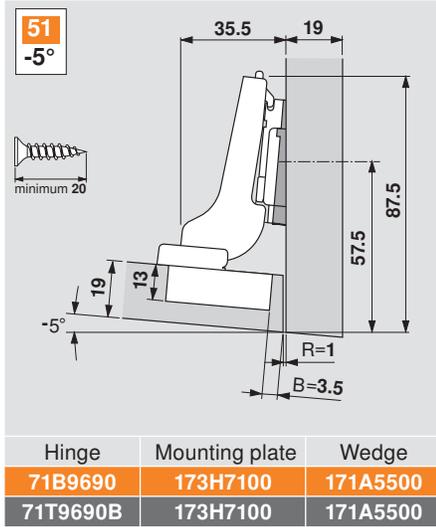
# Inset door specifications

# Hinges



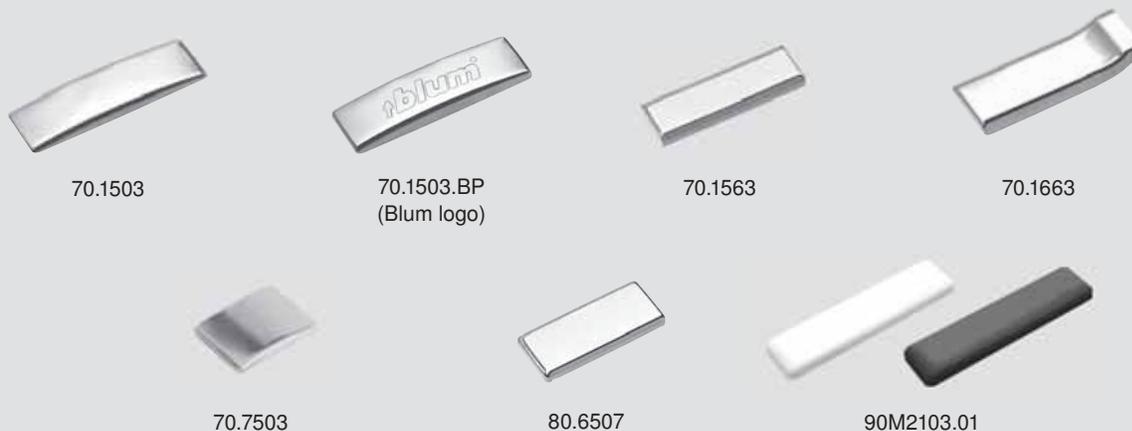
## Negative angle applications

NOTE: CLIP top BLUMOTION CLIP top



Angled hinges

Hinge arm cover cap



|   |                    | Nylon      | Steel      |
|---|--------------------|------------|------------|
| 100°, 107°, 110°, 110°+, 120°, 120°+, thick door and bi-fold hinges | Straight-arm       | 90M2103.01 | 70.1503    |
|   | Embossed Blum logo |            | 70.1503.BP |
|   | Cranked-arm        |            | 70.1663    |
| Diagonal 45°, blind corner, narrow aluminum door hinges             |                    | 90M2103.01 | 70.1503    |
| Angled, mini and glass door hinges with straight or cranked-arms    |                    |            | 70.1563    |
| 155°/125° hinges  |                    |            | 70.7503    |
| 170° hinges   |                    |            | 80.6507    |

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

Hinge cup spacer

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



Part no.

Hinge cup spacer

70T3507.21

Hinge cup cover cap

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



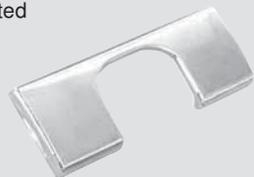
Part no.

Hinge cup cover cap

70T3504

Hinge cup cover cap

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



Part no.

Hinge cup cover cap

70T1504

3 mm spacer

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

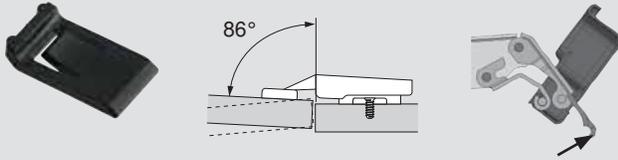


Part no.

3 mm spacer

181.6130

Angle restriction clip for 107° hinges



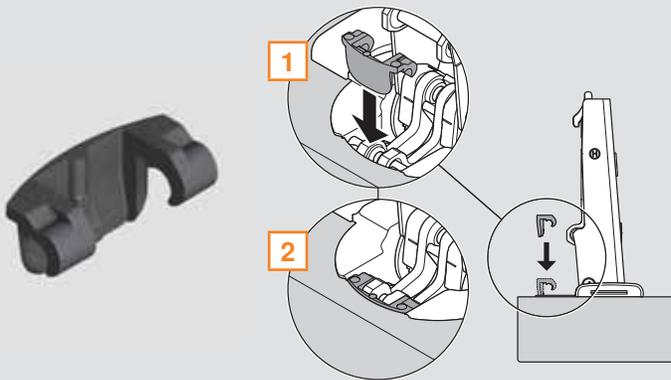
- Reduces opening angle of the CLIP top and CLIP 107° to 86°
- For use with CLIP top and CLIP 107° hinges only
- Installs quickly, easily and tool-free
- Non-removable
- Black nylon

Part no.

86° Angle restriction clip

74.1103

Angle restriction clip for 110° hinges



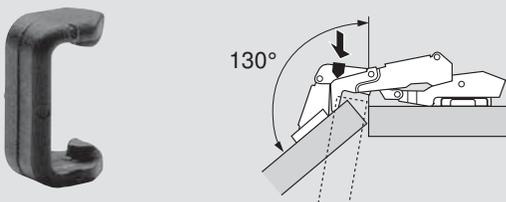
- Reduces opening angle of the CLIP top 110° and 110°+ to 86°
- For use with CLIP top 110° and 110°+ hinges only
- Installs quickly, easily and tool-free either before or after the hinge has been installed
- Black nylon

Part no.

Angle restriction clip

70T3553

Angle restriction clip for 170° hinges



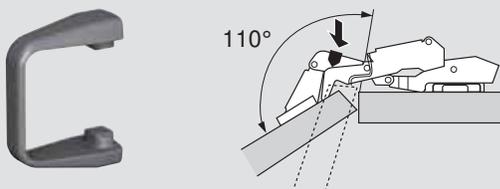
- Reduces opening angle of the CLIP top 170° to 130°
- Required for special applications of the 170° hinge
- Installs quickly, easily and tool-free
- Black nylon

Part no.

130° Angle restriction clip

70.6103

Angle restriction clips for zero protrusion hinges



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

Part no.

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

70T7503N

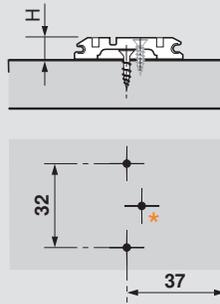
92° Angle restriction clip for 155°

70T7503N09

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

Standard one-piece wing mounting plates

Wood screw

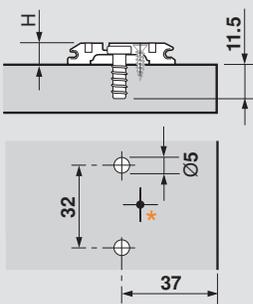


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 3$  mm

Part no.

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

System screw

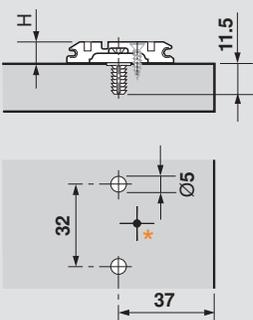


- Steel, nickel-plated
- Attached with pre-mounted  $\text{Ø}5$  mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

Part no.

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

EXPANDO

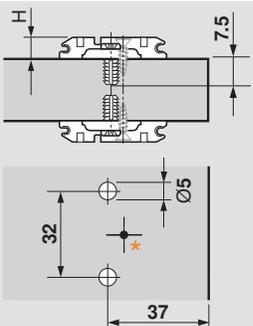


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

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

EXPANDO (twin application)

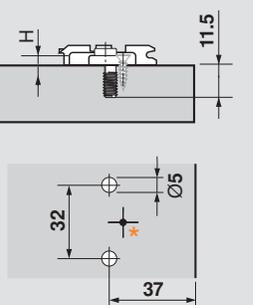


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Height adjustment  $\pm 2$  mm

Part no.

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

System screw



- Zinc die-cast, nickel-plated
- Attached with pre-mounted  $\text{Ø}5$  mm system screws (668.1450.EH)
- Height adjustment  $\pm 3$  mm

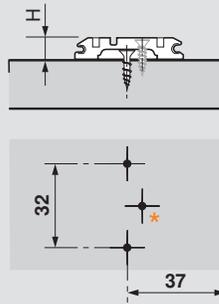
Part no.

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

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

Cam adjustable wing mounting plates

Wood screw



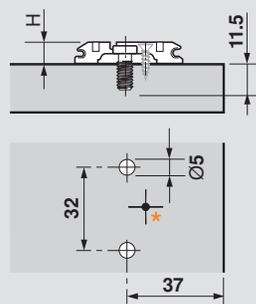
- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment  $\pm 2$  mm

Part no.

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

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

System screw



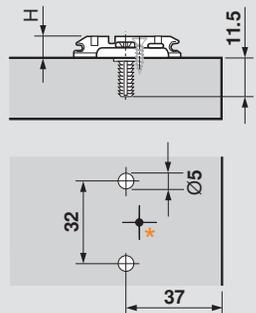
- Steel, nickel-plated
- Attached with #7 x 5/8" wood screws or  $\text{Ø}5 \times 13$  mm system screws
- Cam height adjustment  $\pm 2$  mm

Part no.

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

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

EXPANDO



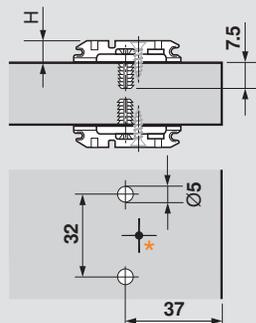
- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Cam height adjustment  $\pm 2$  mm

Part no.

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

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

EXPANDO (twin application)

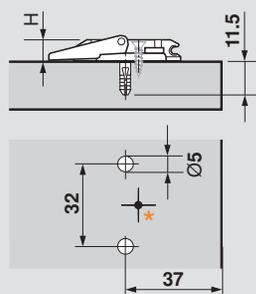


- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment  $\pm 2$  mm

Part no.

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

INSERTA



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

Part no.

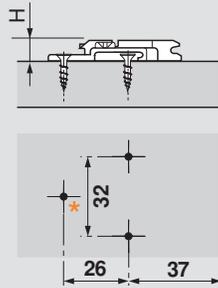
0 plate height (H) **174H7100I**

3 plate height (H) **174H7130I**

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

### Standard two-piece wing mounting plates

#### Wood screw

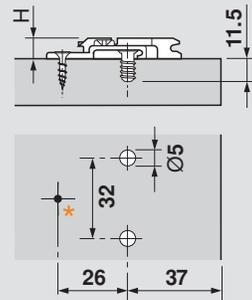


- Zinc die-cast, nickel-plated
- Attached with #6 x 5/8" wood screws
- Height adjustment  $\pm 2$  mm

Part no.

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

#### System screw



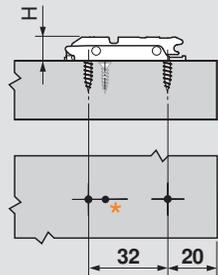
- Zinc die-cast, nickel-plated
- Attached with #7 x 5/8" wood screws or  $\text{Ø}5 \times 13$  mm system screws
- Height adjustment  $\pm 2$  mm

Part no.

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

### Cam adjustable in-line mounting plates

#### Wood screw

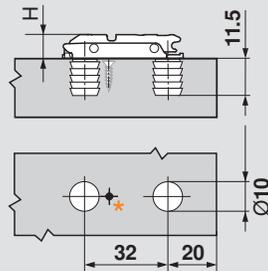


- Steel, nickel-plated
- Attached with #6 x 5/8" wood screws
- Cam height adjustment  $\pm 2$  mm
- Use of mounting plate template recommended

Part no.

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

#### Press-in

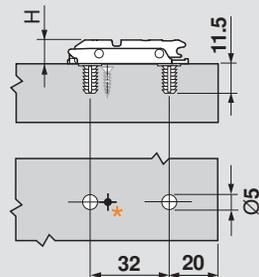


- Steel, nickel-plated
- Pre-attached with 10 mm dowels
- Cam height adjustment  $\pm 2$  mm
- Use of insertion ram MZM.0053 required

Part no.

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

#### EXPANDO



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

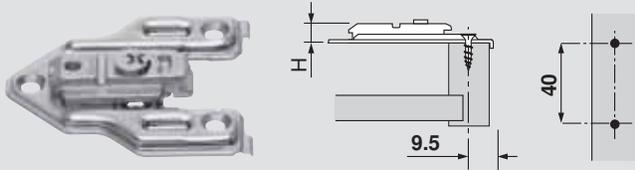
Part no.

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

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

Face frame adapter plates

Cam adjustable center mount



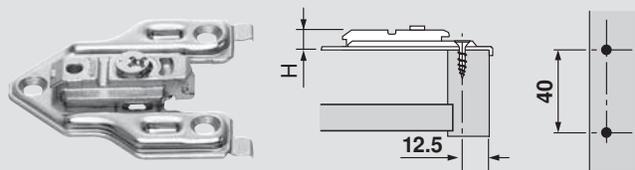
- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Cam height adjustment ±2 mm
- 175H6000 not for use with INSERTA hinges

Part no.

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

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

Cam adjustable off-center mount

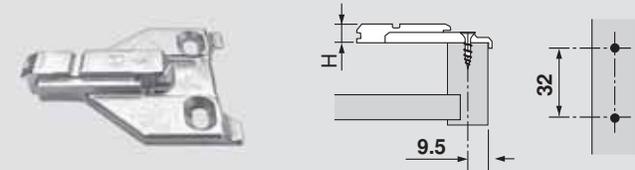


- Steel, zinc die-cast and nickel-plated
- Attached with #7 x 3/4" wood screws
- For use with INSERTA hinge cups
- Off-center mount 12.5 (1/2")
- Cam height adjustment ±2 mm

Part no.

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

Center mount

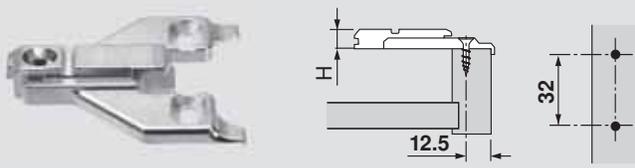


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Center mount 9.5 (3/8")
- Height adjustment ±2 mm

Part no.

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

Off-center mount

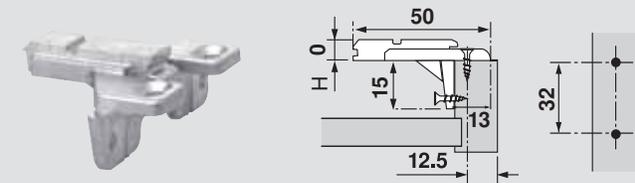


- Zinc die-cast, nickel-plated
- Attached with #7 x 3/4" wood screws
- Off-center mount 12.5 (1/2")
- Height adjustment ±2 mm

Part no.

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

With flange



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

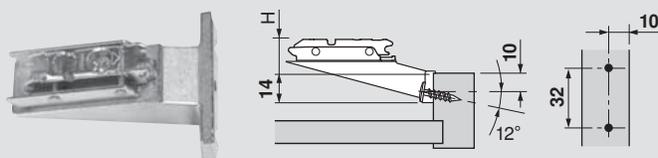
Part no.

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

**NOTE:** Use of PLATEMATE required with all face frame adapter plates. Reference page 96

Inset face frame adapter

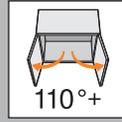
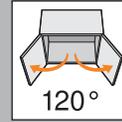
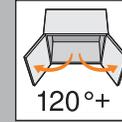
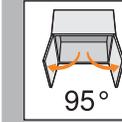
Truss head screw



- Zinc die-cast, nickel-plated
- Attached with #8 x 3/4" truss head screws
- Can be used with applied bead molding
- Cam height adjustment ±2 mm
- Use with half-cranked hinges only
- Wide angle hinges not recommended
- Use of PLATEMATE required for installation

Part no.

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

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

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

BLUMOTION  
for doors

# Hinges

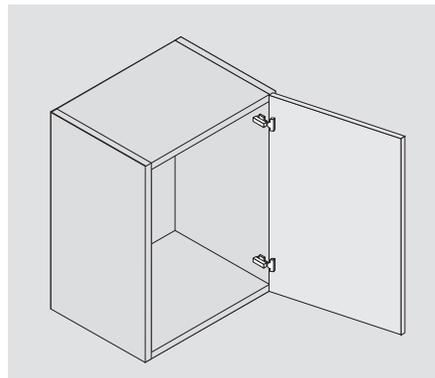


## BLUMOTION 973A for CLIP hinges

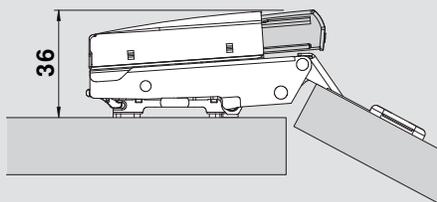


### Features

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



### For straight-arm hinges



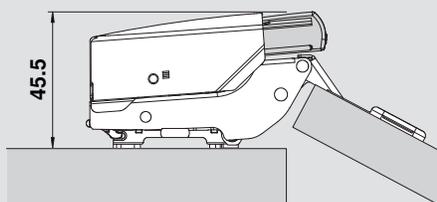
- CLIP top 107°
- CLIP top 110°
- CLIP top 110°+
- CLIP top 120°
- CLIP top 120°+
- CLIP top 95° thick door
- CLIP top 120° aluminum door
- CLIP 100°
- CLIP 107°

Part no.

Straight-arm

**973A0500.01**

### For half-cranked arm hinges



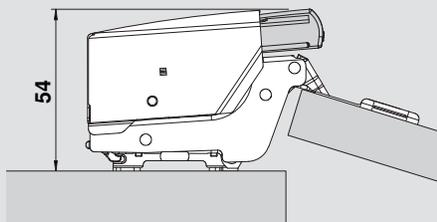
- CLIP top 110°
- CLIP top 120°
- CLIP top 95° thick door
- CLIP 100°

Part no.

Half-cranked arm

**973A0600**

### For full-cranked arm hinges



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

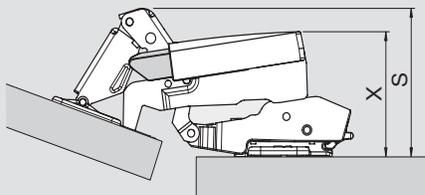
Part no.

Full-cranked arm

**973A0700**

Specifications

For 170° hinges



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

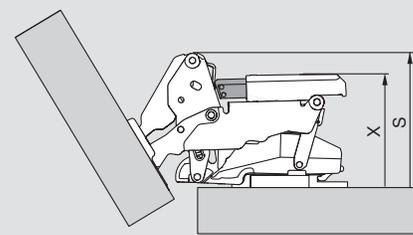
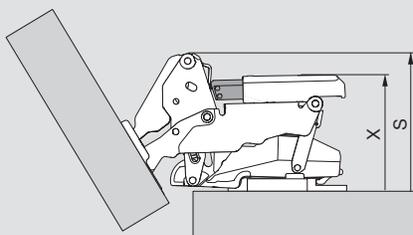
| Hinge                      | X  | S       |
|----------------------------|----|---------|
| CLIP top 170° straight-arm | 49 | 65 max. |
| CLIP top 170° half-cranked | 68 | 75 max. |

Part no.

973A6000

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

For zero protrusion hinges 155°/125°



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

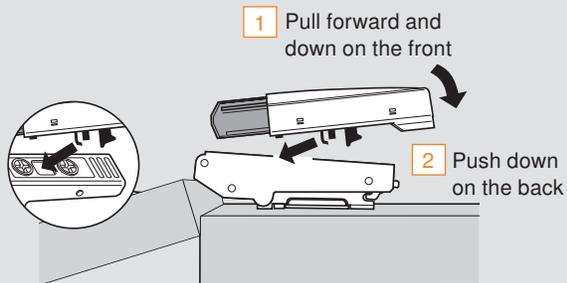
Part no.

973A7000

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

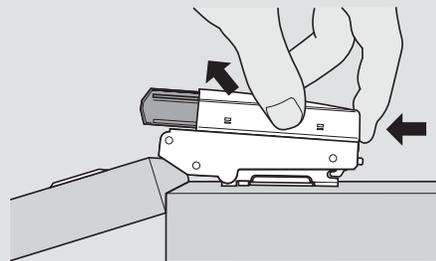
Attachment

Attach to the square hole in the hinge arm



Removal

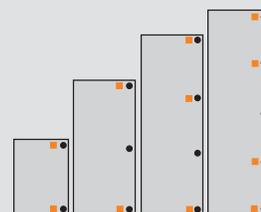
Pull forward and up simultaneously



BLUMOTION per door

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

- BLUMOTION 973A
- Hinges



BLUMOTION for doors

# Hinges

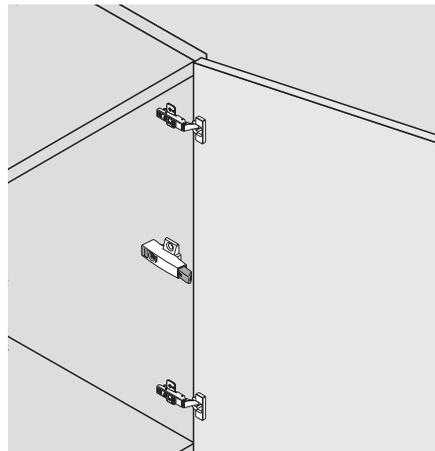


## BLUMOTION 971A for CLIP hinges

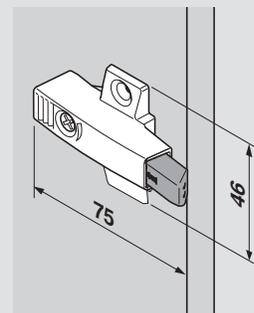
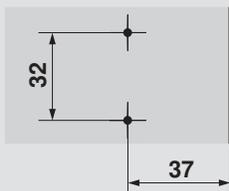


### Features

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



### Wing plate (screw-on)

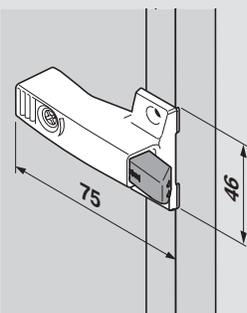
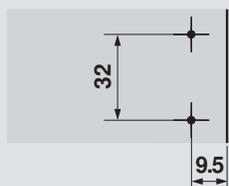


- 37 mm setback, 32 mm apart
- Attach with #6 x 5/8" wood screws
- Nickel-plated steel and gray nylon

Part no.

|                    |              |
|--------------------|--------------|
| 0 mm               | 971A0500     |
| Installation screw | 606N or 606P |

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



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

Part no.

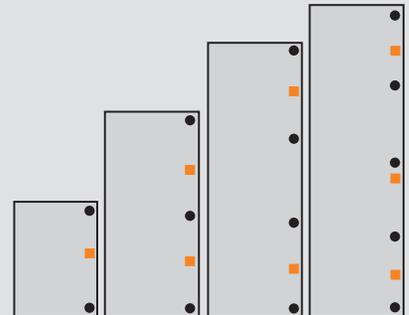
|                    |              |
|--------------------|--------------|
| 0 mm               | 971A0700     |
| Installation screw | 606N or 606P |

Specifications

**BLUMOTION per door**

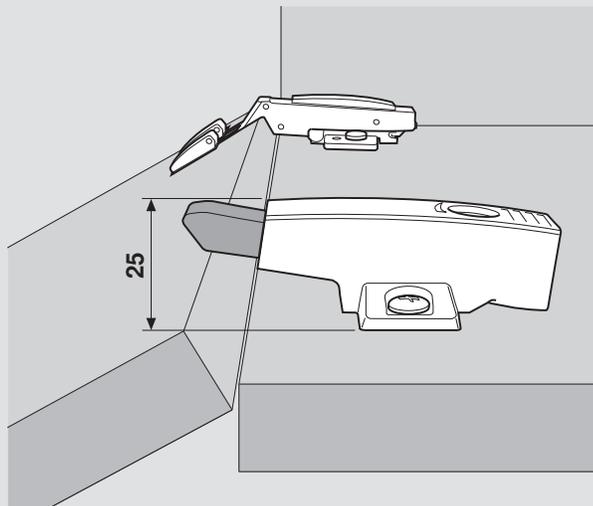
- For optimum BLUMOTION effect, BLUMOTION 971A should be installed onto the hinge-side panel centered between the two hinges
- Tall or heavy doors may require an additional BLUMOTION 971A between the hinges
- Trial application recommended

■ BLUMOTION 973A  
● Hinges



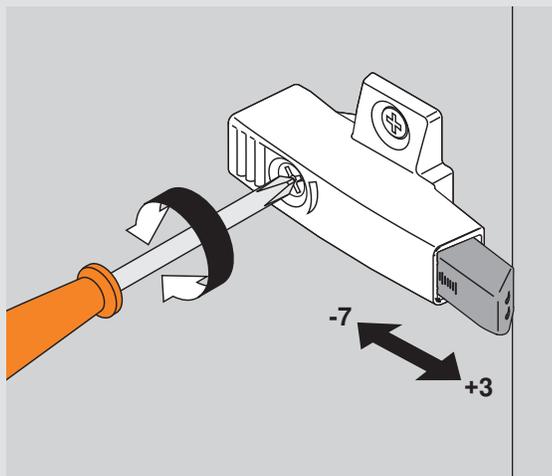
**0 mm BLUMOTION application**

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



**Adjustment**

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



BLUMOTION  
for doors

# Hinges

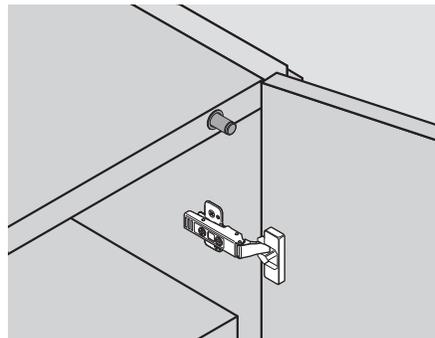


## BLUMOTION 970A for CLIP hinges



### Features

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



### BLUMOTION 970A



Part no.

BLUMOTION 970A

970A1002

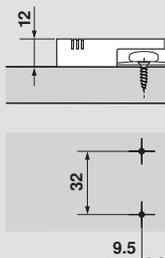
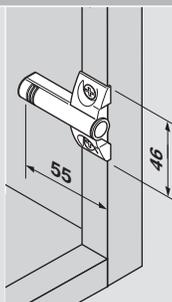
### BLUMOTION per door

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

- BLUMOTION 973A
- Hinges



### Face frame adapter (screw-on)

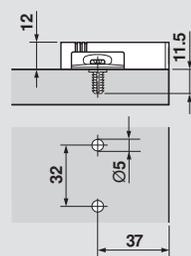
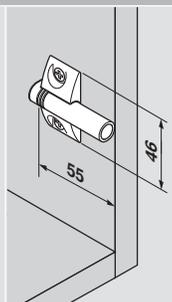


- 9.5 mm setback, 32 mm apart
- Can also be used in panel cabinets
- Attach with #6 x 5/8" wood screws
- Steel, nickel-plated

Part no.

|                    |              |
|--------------------|--------------|
| Screw-on           | 970.5701     |
| Installation screw | 606N or 606P |

### Wing adapter (EXPANDO)

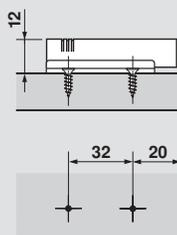
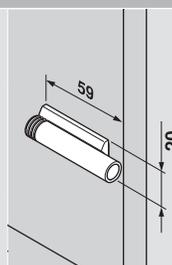


- 37 mm setback, 32 mm apart
- EXPANDO version installs with pre-attached screws
- Steel, nickel-plated

Part no.

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

### In-line adapter (screw-on)



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

Part no.

|                    |              |
|--------------------|--------------|
| Screw-on           | 970.5201     |
| Installation screw | 606N or 606P |

**BLUMOTION 970A**

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

**Standard applications**

boring distance (X) in mm

|      |    |
|------|----|
| 3 mm | 35 |
|------|----|

mounting plate height

**For angled applications**

boring distance (X) in mm

|    |    |
|----|----|
| 35 | 48 |
|----|----|

application, refer to pages 45 to 52

|    |     |
|----|-----|
| 35 | 20° |
|----|-----|

**Standard application**

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

**Blind corner applications**

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

**Angled applications (reference angle applications page (47 to 54))**

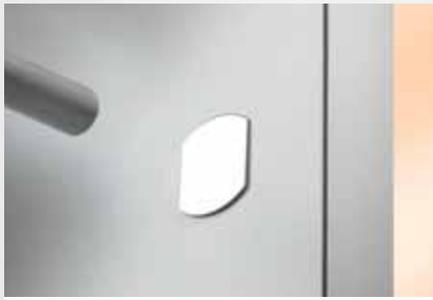
|      | Max. overlay boring distance | Partial overlay boring dist. | Corner merge boring distance | Inset boring distance | Mitered corner boring distance |    |    |    |    |    |
|------|------------------------------|------------------------------|------------------------------|-----------------------|--------------------------------|----|----|----|----|--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

BLUMOTION for doors



### Mounting

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



### Catch plate

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



### Hinges

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

## TIP-ON for doors

### Opening comfort for doors without handles

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

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

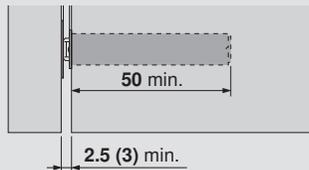
**Tool-free door gap adjustment**

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

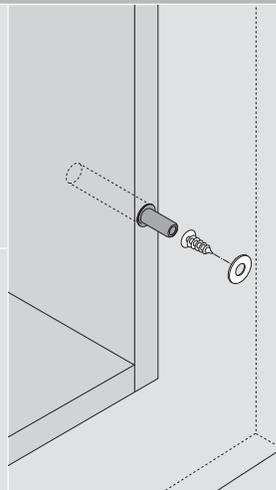
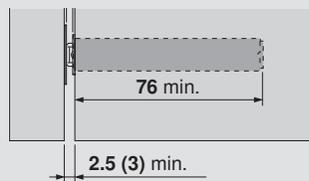


**TIP-ON boring specifications**

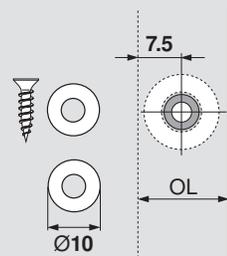
**Standard TIP-ON set**



**Large TIP-ON set**



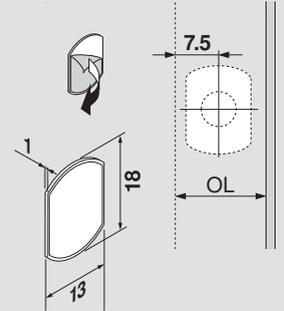
**Catch plate (screw-on)**



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

OL = Door overlay

**Catch plate (self-adhesive)**



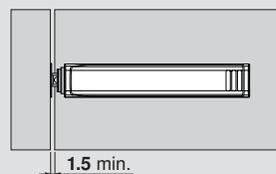
Cleaning of the door surface is recommended

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

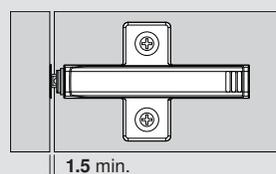
TIP-ON for doors

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

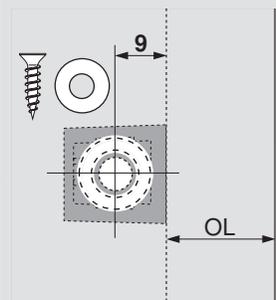
**In-line adapter plate**



**Wing adapter plate**

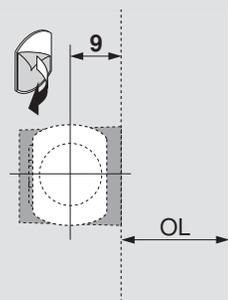


**Catch plate (screw-on)**



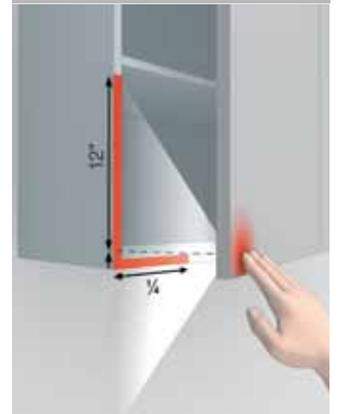
Pre-boring Ø2.5 mm counter-sunk pilot holes required  
OL = Door overlay

**Catch plate (self-adhesive)**



Cleaning of the door surface is recommended

**Installation position**



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

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

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

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

### TIP-ON set for standard doors

|  |   |   |
|--|---|---|
|  | <p><b>Overlay</b></p> <p><b>Inset</b></p> | <ul style="list-style-type: none"> <li>Nylon gray unit with magnet tip</li> <li>Adjustment range +4 mm to -1 mm</li> <li>For use with Blum Euro free swing hinges</li> <li>For door heights less than 48"</li> <li>Works for overlay and inset applications</li> <li>Can be bored into the panel or used with an adapter plate</li> </ul> <p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>TIP-ON unit</li> <li>Self-adhesive catch plate</li> <li>Screw-on catch plate</li> <li>Wood screw</li> </ul> <p style="text-align: right;">Part no.</p> |
| <p><b>NOTE:</b> Due to various door weights and sizes, trial application recommended</p> |   | <p>Standard door set <span style="float: right;"><b>956.1004</b></span></p>   |

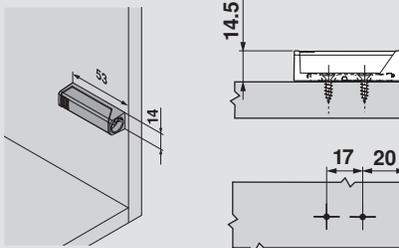
### TIP-ON set for large doors

|  |   |  |
|--|---|--|
|  | <p><b>Overlay</b></p> <p><b>Inset</b></p> | <ul style="list-style-type: none"> <li>Nylon gray unit with magnet tip</li> <li>Adjustment range +4 mm to -1 mm</li> <li>For use with Blum Euro free swing hinges</li> <li>For door heights greater than 48"</li> <li>Works for overlay and inset applications</li> <li>Can be bored into the panel or used with an adapter plate</li> </ul> <p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>TIP-ON unit</li> <li>Self-adhesive catch plate</li> <li>Screw-on catch plate</li> <li>Wood screw</li> </ul> <p style="text-align: right;">Part no.</p> |
| <p><b>NOTE:</b> Due to various door weights and sizes, trial application recommended</p> |   | <p>Large door set <span style="float: right;"><b>956A1004</b></span></p>   |

### TIP-ON for self close hinges

|  |   |  |
|--|---|--|
|  | <p><b>Overlay</b></p> <p><b>Inset</b></p> | <ul style="list-style-type: none"> <li>Nylon gray unit with bumper tip</li> <li>Adjustment range +4 mm to -1 mm</li> <li>For use with Blum Euro self close hinges</li> <li>For door widths greater than 10"</li> <li>Works for overlay and inset applications</li> <li>Can be bored into the panel or used with an adapter plate</li> </ul> <p style="text-align: right;">Part no.</p> |
| <p><b>NOTE:</b> Due to various door weights and sizes, trial application recommended</p> |   | <p>Self close hinges <span style="float: right;"><b>956A1006</b></span></p>  |

TIP-ON in-line adapter plate for standard doors



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

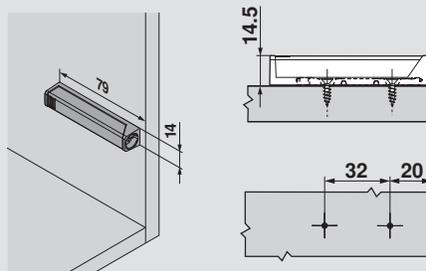
|             |                     |
|-------------|---------------------|
| Application | Setback             |
| Overlay     | 20                  |
| Inset       | 22 + door thickness |

Part no.

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

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

TIP-ON in-line adapter plate for large doors



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

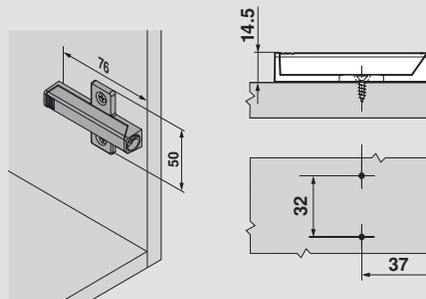
|             |                     |
|-------------|---------------------|
| Application | Setback             |
| Overlay     | 20                  |
| Inset       | 22 + door thickness |

Part no.

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

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

TIP-ON wing adapter plate for large doors



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

|             |                     |
|-------------|---------------------|
| Application | Setback             |
| Overlay     | 37                  |
| Inset       | 39 + door thickness |

Part no.

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

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

TIP-ON for doors

## COMPACT BLUMOTION and COMPACT hinges A complete face frame program

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

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



### Deactivation option

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



### Interchangeability

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



### Overload safety feature

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

## Hinges



## COMPACT BLUMOTION and COMPACT hinges overview



### COMPACT BLUMOTION 38N hinges for partial overlay

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



### COMPACT BLUMOTION 39C/38C hinges for full overlay

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

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



### COMPACT BLUMOTION 38B face mount hinges for full overlay

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



### COMPACT 38N hinges for partial overlay

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



### COMPACT 39C/38C hinges for full overlay

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

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



### COMPACT 33 hinges for partial and full overlay

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

### Conditions for tests

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

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

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

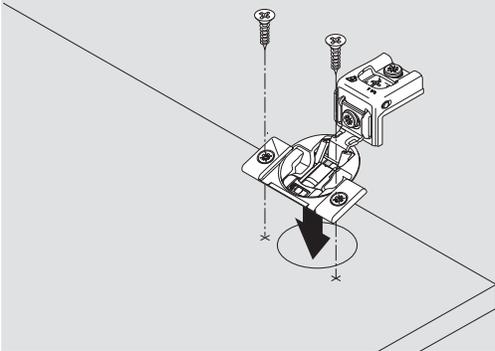
| Cycle test |   |  |   |  |
|------------|---|--|---|--|
|            | <b>Without load</b> <ul style="list-style-type: none"> <li>100,000 opening and closing for all COMPACT</li> </ul> |  | <b>With load</b> <ul style="list-style-type: none"> <li>11 lb extra weight is applied for 100,000 opening and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

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

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

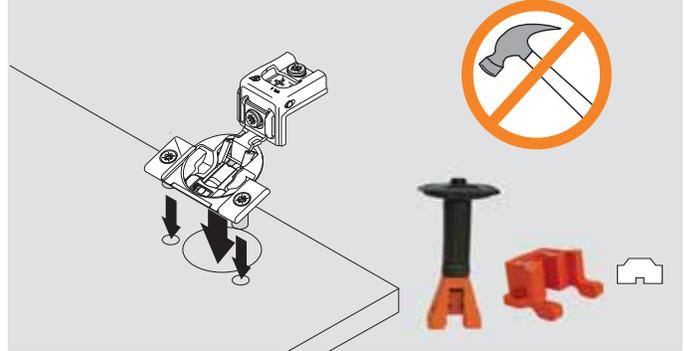
**Screw-on**

Use #6 wood screws



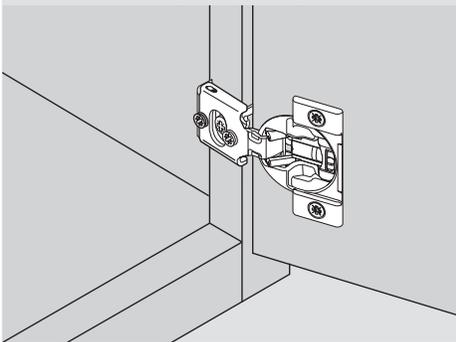
**Press-in**

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

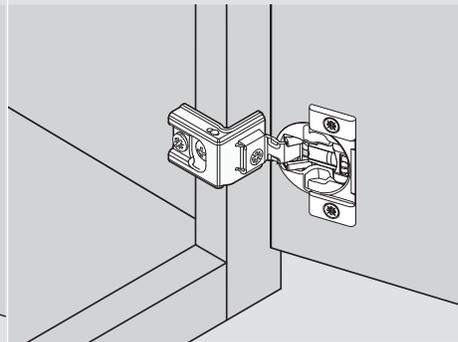


**Mounting plate attachment**

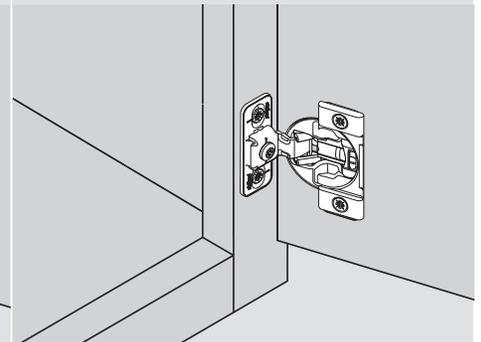
**38N series – wraparound/edge mount**



**39C/38C series – wraparound**



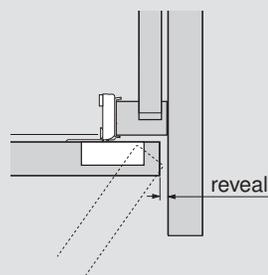
**38B series – face mount**



**Minimum reveal**

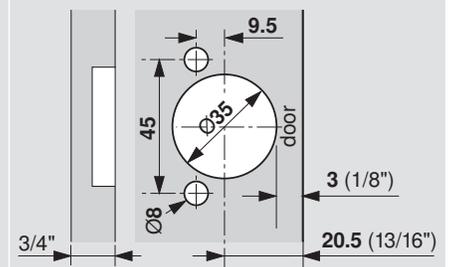
A minimum reveal per door is required to keep the door from binding and varies depending on door thickness.

See minimum reveal table for each hinge.



**Hinge cup centerpoint**

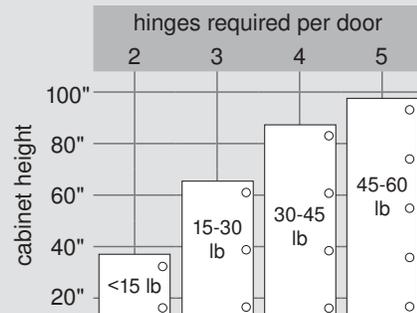
Hinge cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT BLUMOTION hinges



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

**Hinges per door**

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

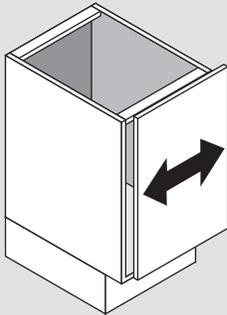
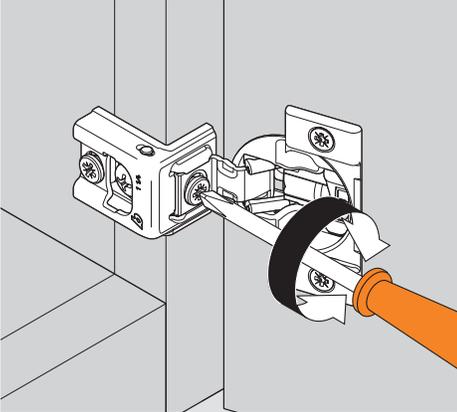


**NOTE:** The distance between the top and bottom hinges must be greater than the width of the door

## Three-dimensional adjustment

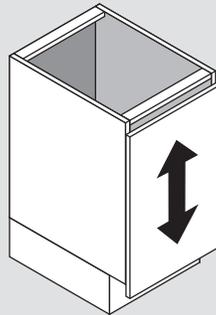
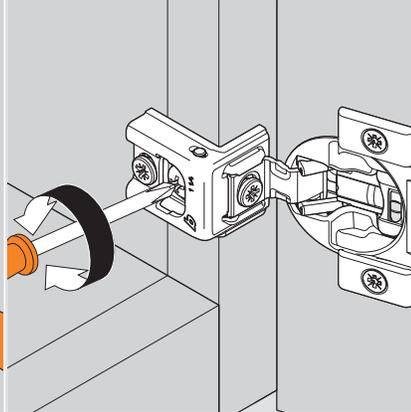
### Side adjustment

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



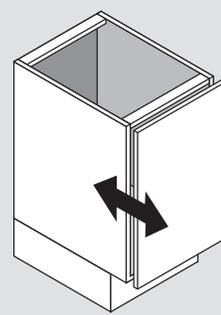
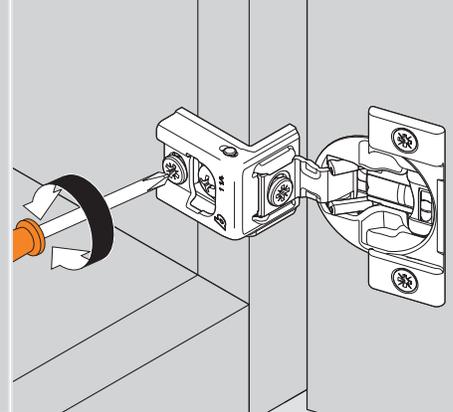
### Height adjustment

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



### Depth adjustment

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

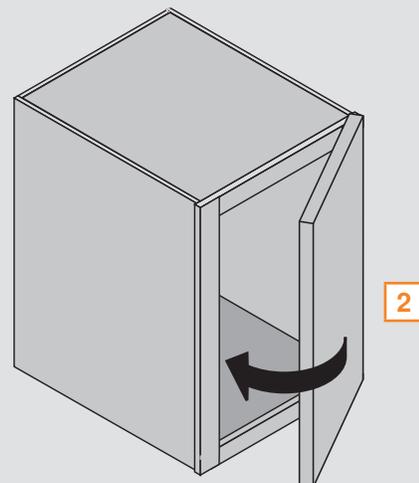
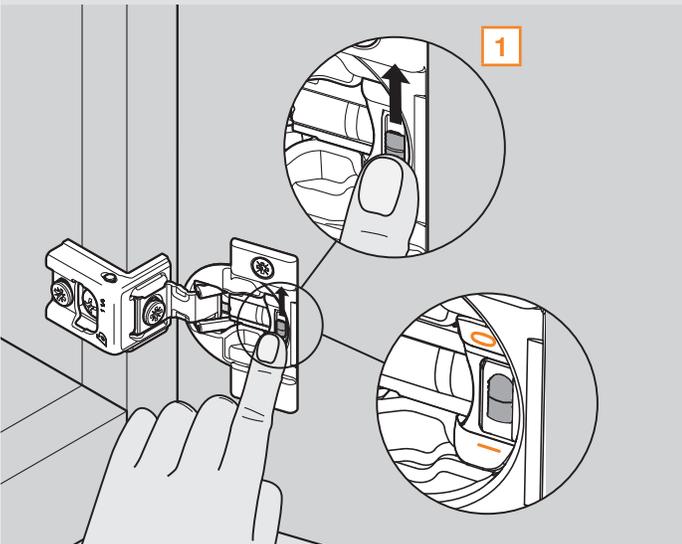


## BLUMOTION deactivation

### Deactivation switch on the hinge cup

For small or light doors, the BLUMOTION can be deactivated on one of the hinges. COMPACT BLUMOTION comes in the activated position, marked with a "1". The deactivated position is marked with a "0".

Door must be closed once for the deactivation to be complete. To reactivate, move switch back to the original position "1".





## COMPACT BLUMOTION 38N for partial overlay

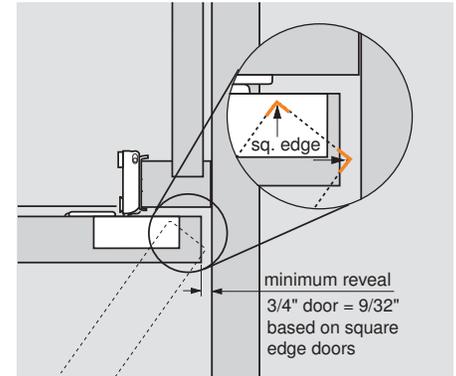
## Hinges



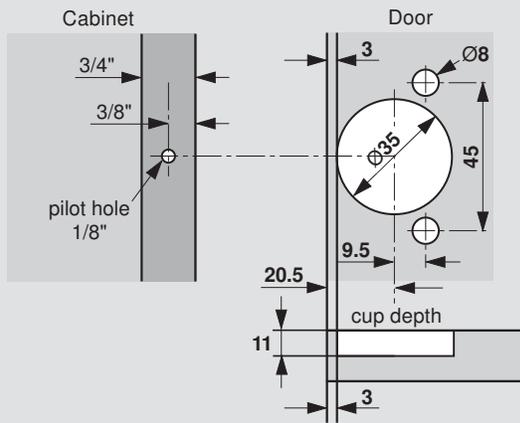
### Features

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

### Minimum reveal

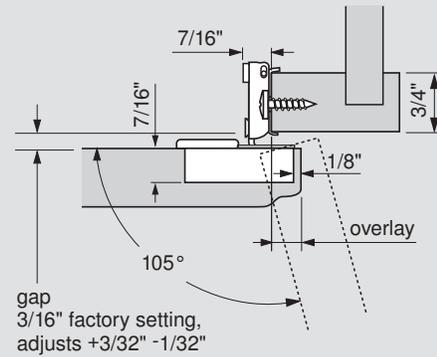


### Boring pattern

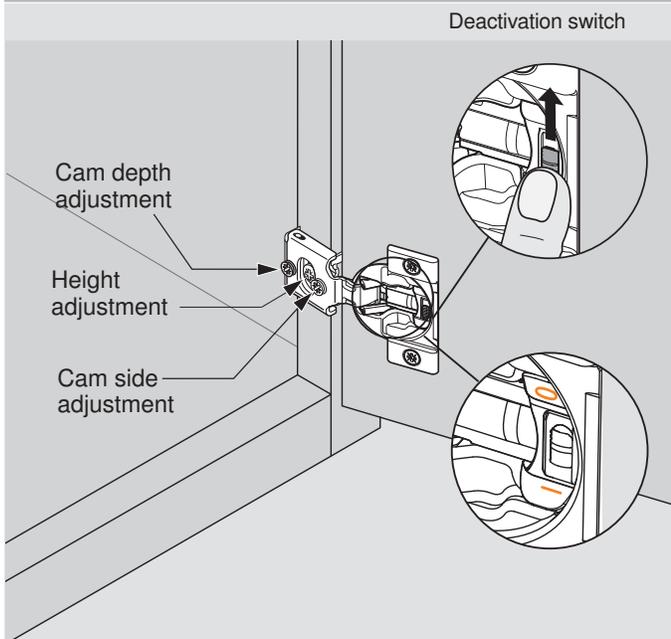


**NOTE:** Maximum door thickness 3/4"

### Dimensions

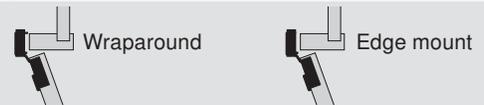


### Adjustment



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

### Wraparound and edge mount hinges



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

\*Available as edge mount hinge

### Installation screw

|                  |       |
|------------------|-------|
| Truss head screw | 834TH |
|------------------|-------|

### Accessories

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

\*See page 82 for additional cover cap options

COMPACT  
BLUMOTION

# Hinges



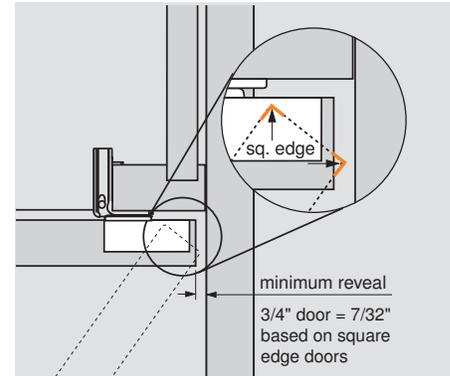
## COMPACT BLUMOTION 39C for full overlay



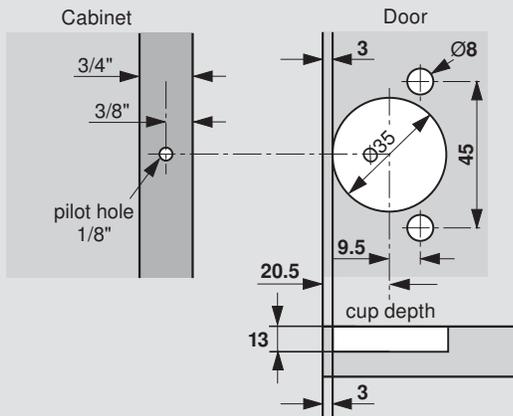
### Features

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

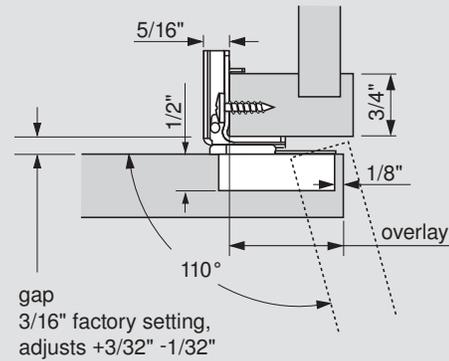
### Minimum reveal



### Boring pattern

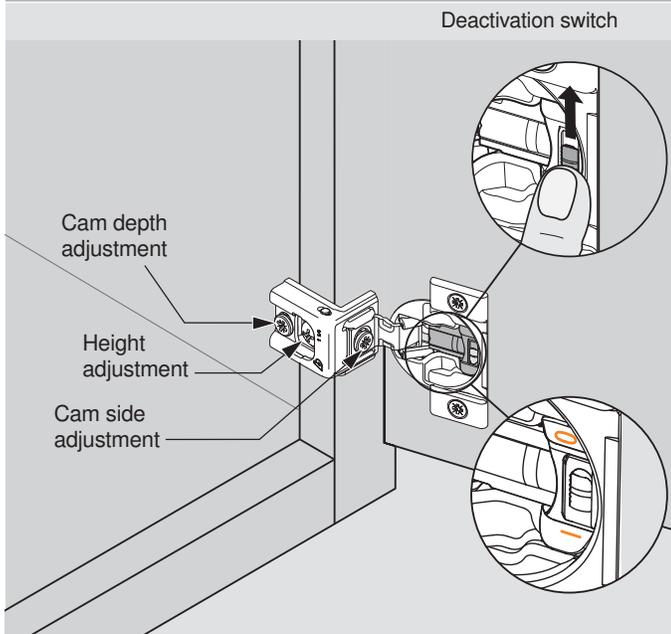


### Dimensions



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

### Adjustments



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

### Wraparound hinges



| Overlay | Screw-on   | <sup>47</sup> Press-in |
|---------|------------|------------------------|
| 1"      | 39C355B.16 | 39C358B.16             |
| 1-1/4"  | 39C355B.20 | 39C358B.20             |
| 1-5/16" | 39C355B.21 | 39C358B.21             |
| 1-3/8"  | 39C355B.22 | 39C358B.22             |
| 1-1/2"  | 39C355B.24 | 39C358B.24             |
| 1-9/16" | 39C355B.25 | 39C358B.25             |

### Installation screw

|                  |       |
|------------------|-------|
| Truss head screw | 834TH |
|------------------|-------|

### Accessories

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

\*See page 82 for additional cover cap options



## COMPACT BLUMOTION 38C for full overlay

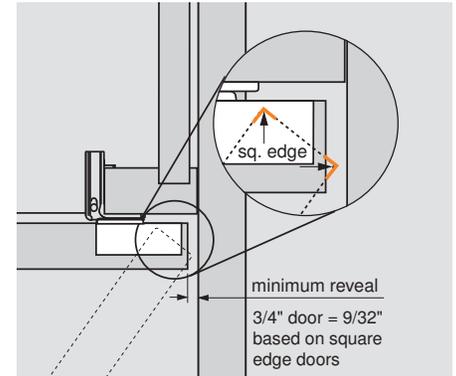
## Hinges



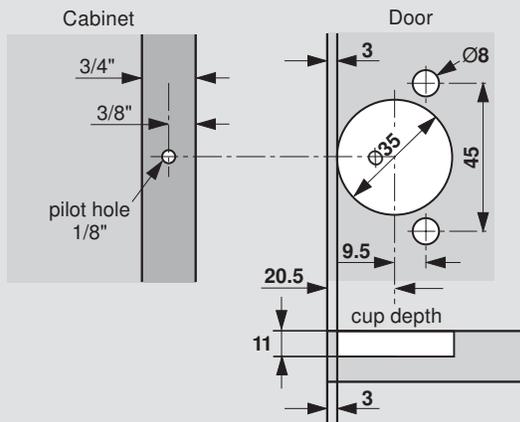
### Features

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

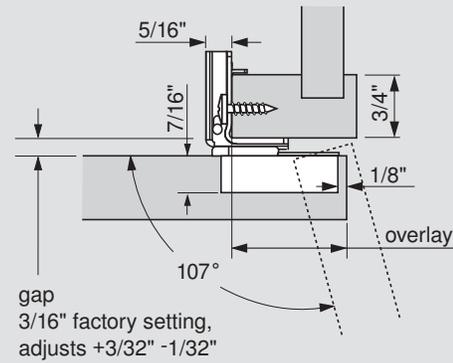
### Minimum reveal



### Boring pattern

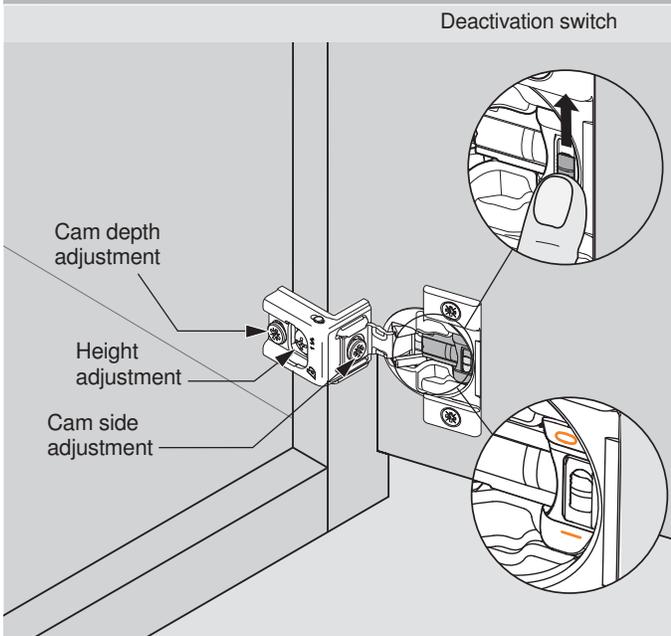


### Dimensions



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

### Adjustments



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

### Wraparound hinges



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

### Installation screw

|                  |       |
|------------------|-------|
| Truss head screw | 834TH |
|------------------|-------|

### Accessories

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

\*See page 82 for additional cover cap options

COMPACT  
BLUMOTION

# Hinges



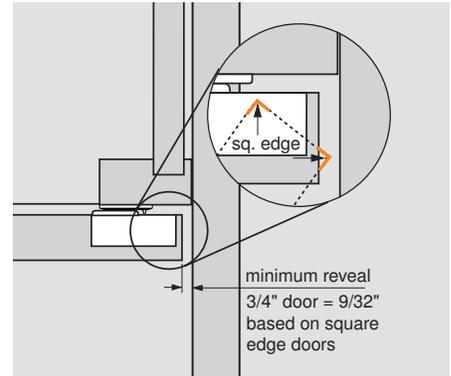
## COMPACT BLUMOTION 38B for face mount



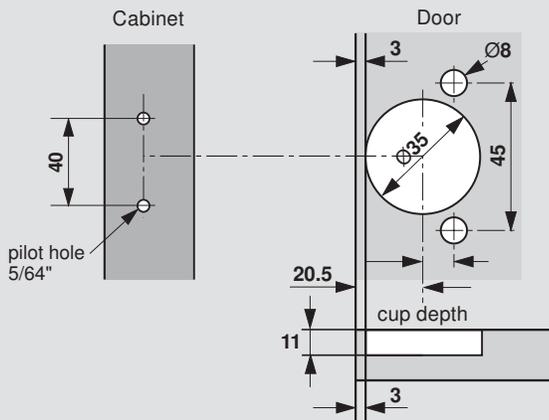
### Features

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

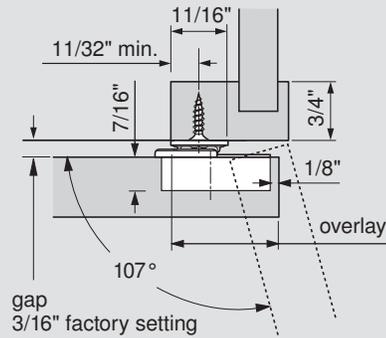
### Minimum reveal



### Boring pattern

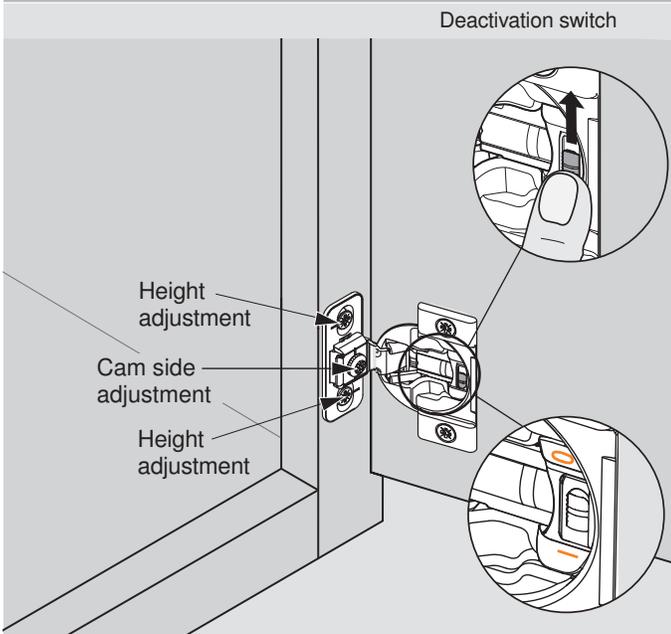


### Dimensions



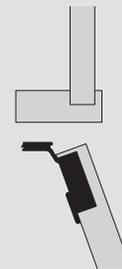
**NOTE:** Maximum door thickness 3/4"

### Adjustments



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

### Face mount hinges



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

| Installation screw   |
|----------------------|
| Flat head wood screw |

**606N or 606P**

| Accessories            |
|------------------------|
| Angle restriction clip |
| Hinge cup spacer       |

**38C315B3.1**  
**38C355B9**

Hinge arm cover caps



39C/38C cover cap



38N cover cap



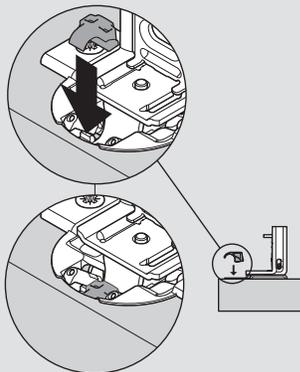
- Steel, nickel-plated cap
- Available blank or embossed (Blum logo)
- Also available with printed custom logo (minimum order quantity applies)

Part no.

|                                      |                   |
|--------------------------------------|-------------------|
| 39C/38C blank cover cap              | <b>38C3508</b>    |
| 39C/38C Blum logo embossed cover cap | <b>38C3508.BP</b> |
| 38N blank cover cap                  | <b>38N3508B</b>   |
| 38N Blum logo embossed cover cap     | <b>38N3508BBP</b> |

Angle restriction clip

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

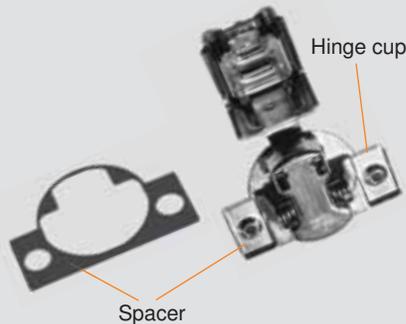


Part no.

Angle restriction clip **38C315B3.1**

Hinge cup spacer

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

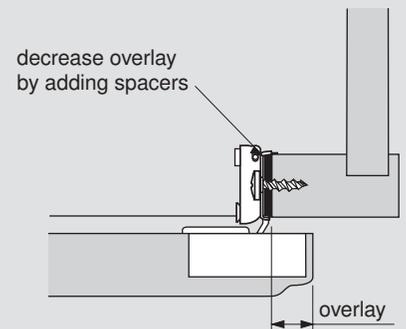
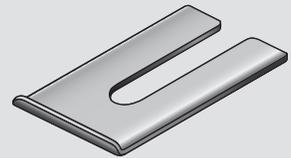


Part no.

Hinge cup spacer **38C355B9**

Distance spacer

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

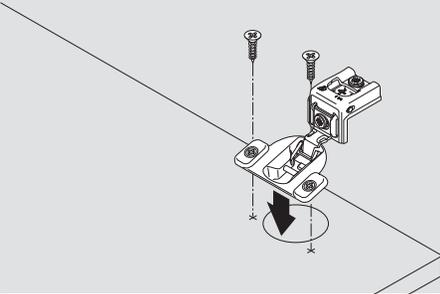


Part no.

Distance spacer **36.3515**

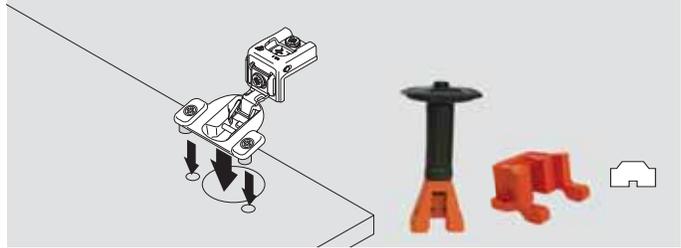
### Screw-on hinge attachment

Use #6 wood screws



### Press-in hinge attachment

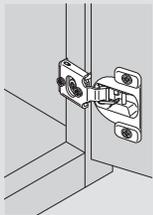
Pre-attached Ø8 dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.



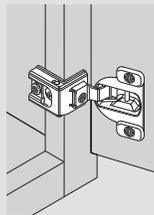
### Mounting plate attachment

#### One-piece assembly

COMPACT 38N  
wrap or edge

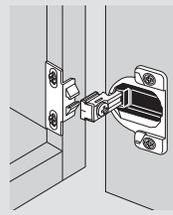


COMPACT 39C/38C  
wraparound



#### Two-piece assembly

COMPACT 33  
edge mount

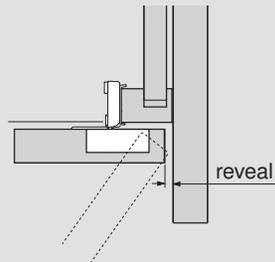


COMPACT 33  
face mount



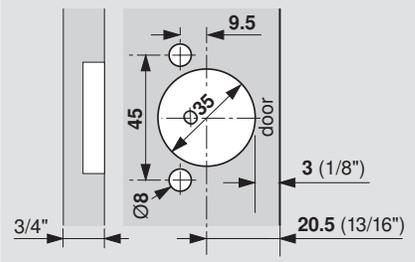
### Minimum reveal

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



### Hinge cup centerpoint

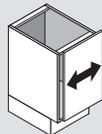
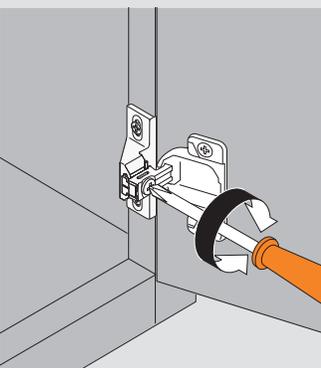
Cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT hinges.



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

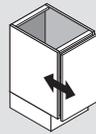
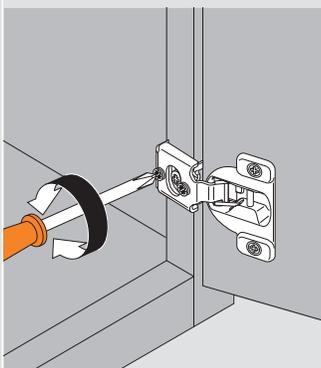
### Three-way independent adjustment

#### Side adjustment



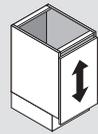
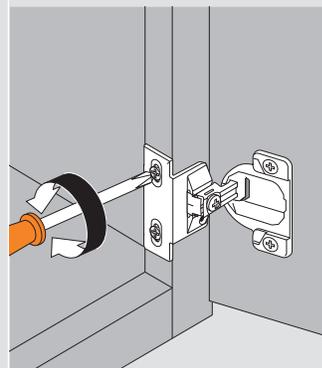
Side adjustment is possible on all COMPACT hinges. COMPACT 38N, 39C and 38C have cam side adjustment.

#### Depth adjustment



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

#### Height adjustment



All COMPACT hinges are independently height adjustable



## COMPACT 38N for partial overlay

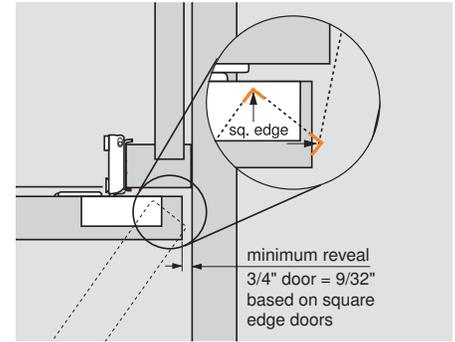
## Hinges



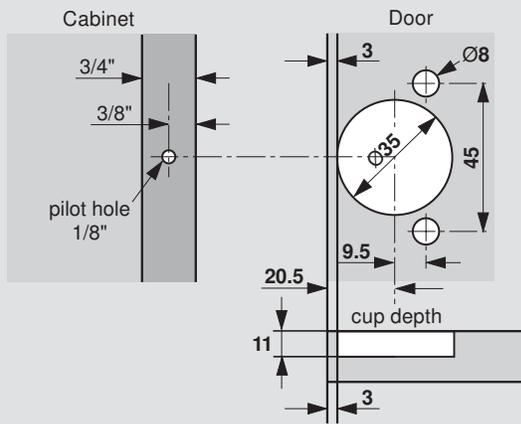
### Features

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

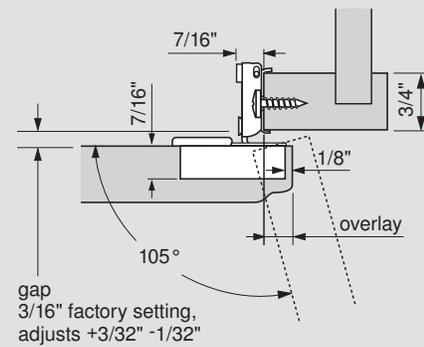
### Minimum reveal



### Boring pattern

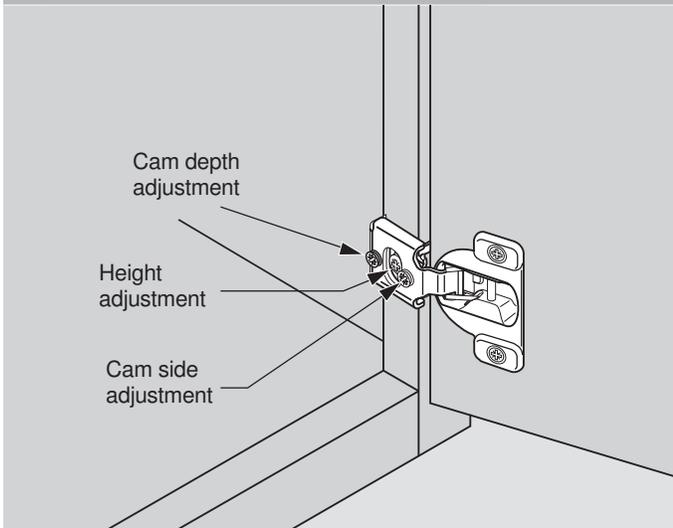


### Dimensions



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

### Adjustments



### Wraparound hinges



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

### Edge mount hinges



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

### Calculating door protrusion

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

### Installation screw

|                               |       |
|-------------------------------|-------|
| Truss head installation screw | 834TH |
|-------------------------------|-------|

# Hinges



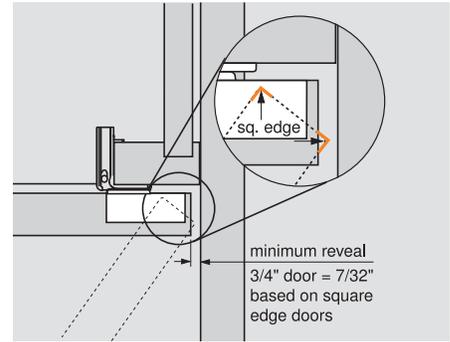
## COMPACT 39C for full overlay



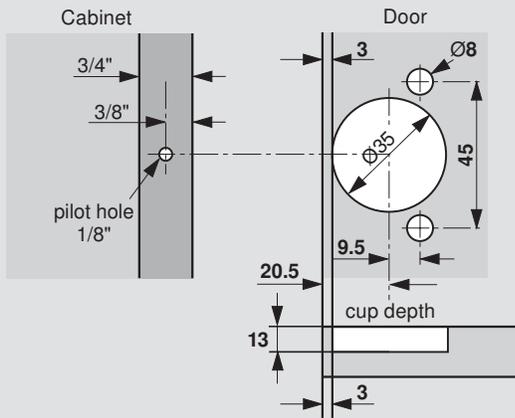
### Features

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

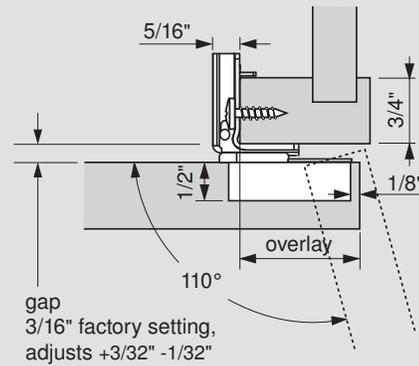
### Minimum reveal



### Boring pattern

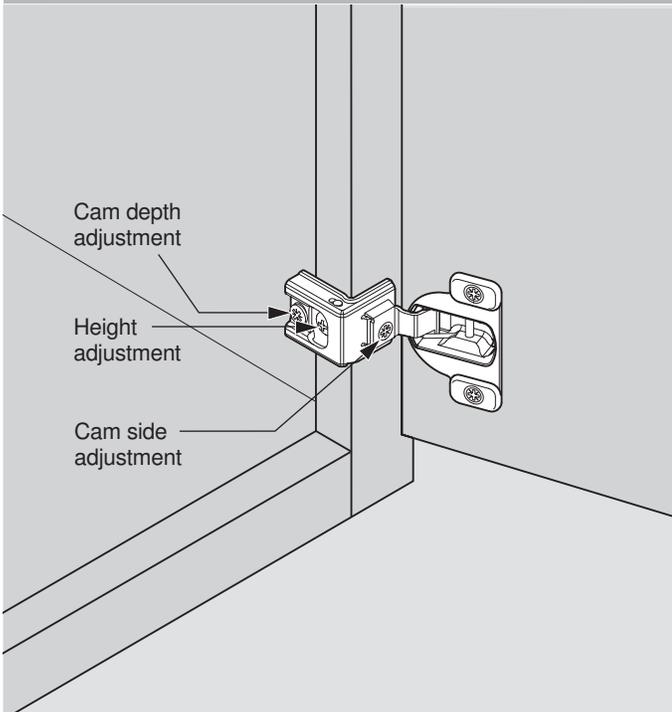


### Dimensions



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

### Adjustments



### Wraparound hinges



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

### Installation screw

Truss head installation screw

834TH



107°

## COMPACT 38C for full overlay

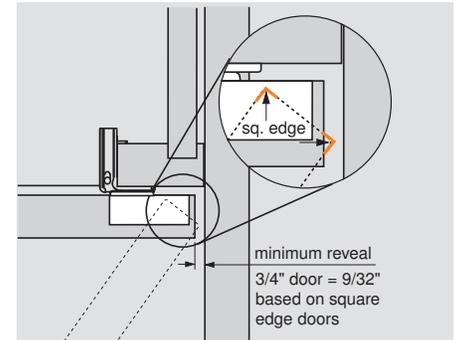
## Hinges



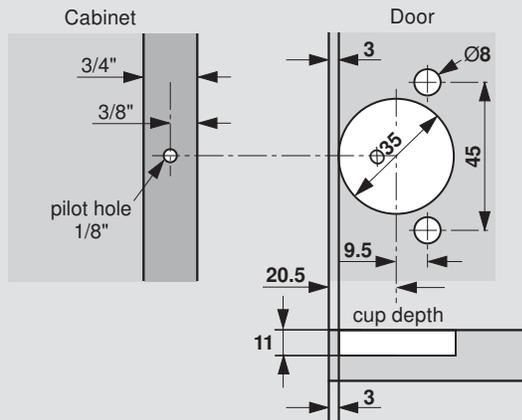
### Features

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

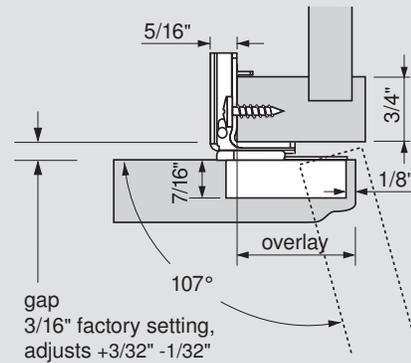
### Minimum reveal



### Boring pattern

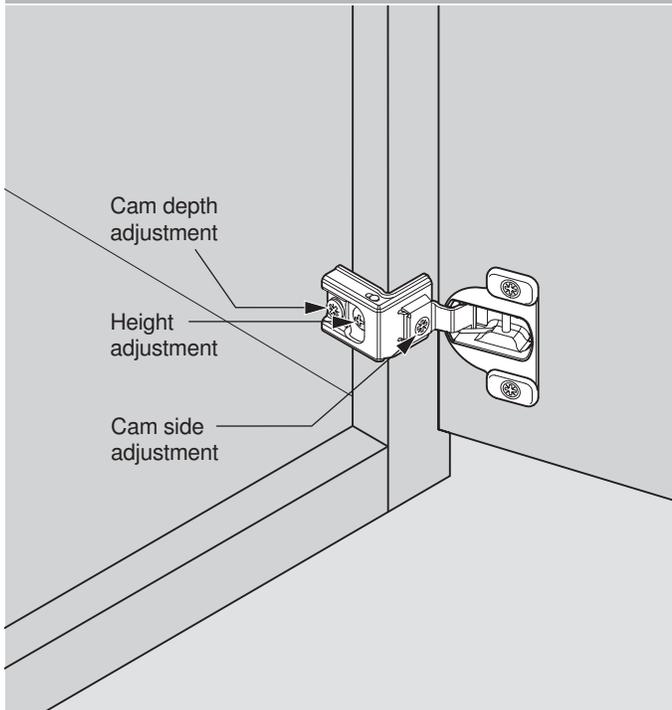


### Dimensions



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

### Adjustments



### Wraparound hinges



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

### Installation screw

Truss head installation screw

834TH

# Hinges



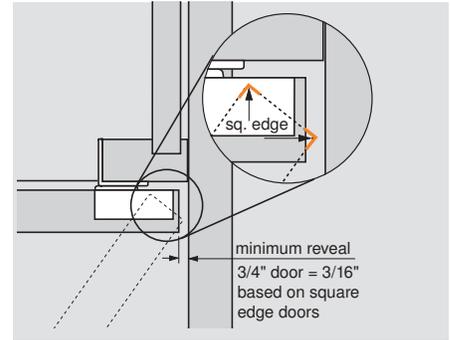
## COMPACT 33



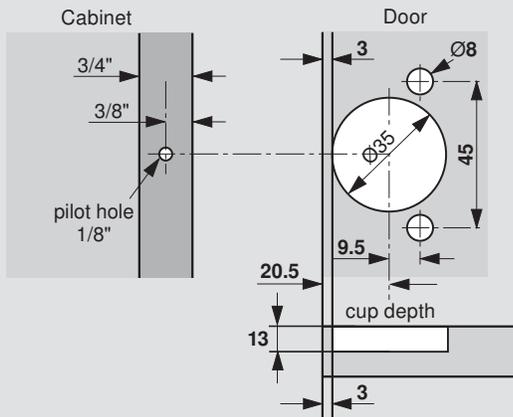
### Features

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

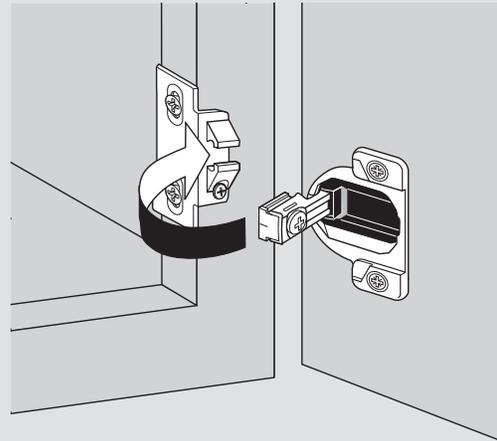
### Minimum reveal



### Boring pattern



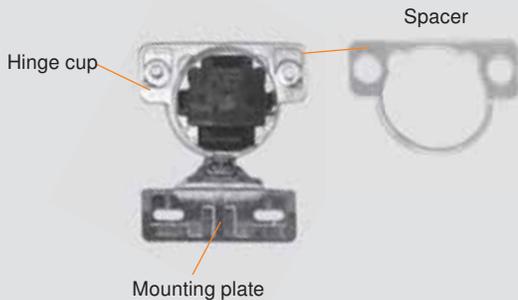
### Mounting



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

### COMPACT 33 spacer

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



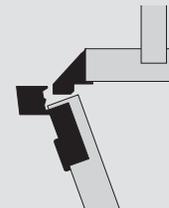
Part no.

COMPACT 33 spacer

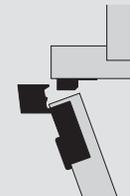
58.0890.1198

### Attachment options

#### Edge mount



#### Face mount



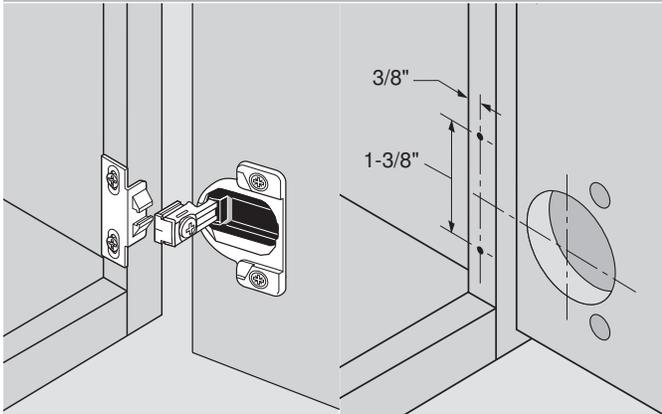
| Attachment | Screw-on | Press-in |
|------------|----------|----------|
|            | 33.3600  | 33.3630  |

### Installation screw

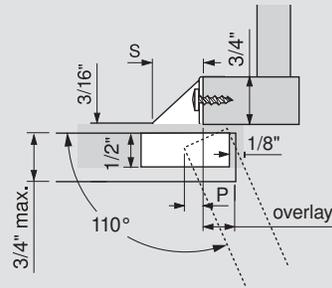
Wood screw

606N or 606P

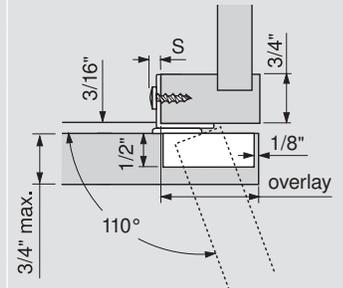
**Edge mount specifications**



Minimum overlay of 1/4" using a 130.1100.24 edge mount plate



Maximum overlay of 1-5/8" using a 130.1160 edge mount plate



**Edge mount mounting plates**

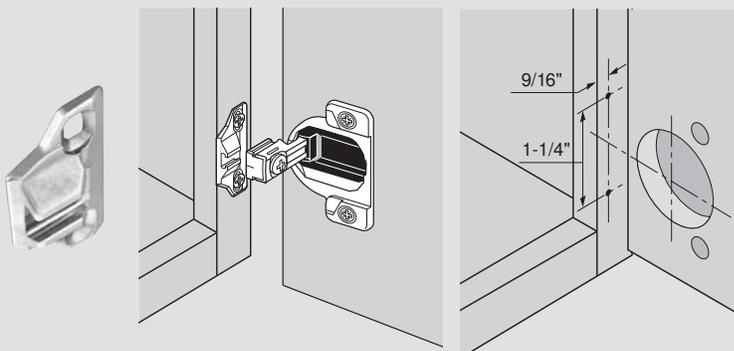


- Zinc die-cast, nickel-plated
- Attaches with #6 x 5/8" wood screws (606N or 606P)
- Overlays from 1/4" to 1-5/8"

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

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

**Face mount mounting plate**



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

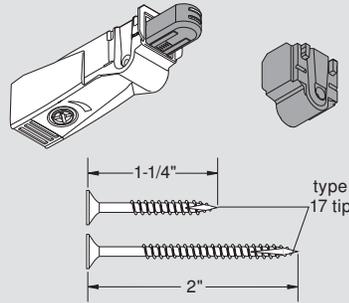
|                |          |
|----------------|----------|
| Mounting plate | Part no. |
| Face mount     | 133.0240 |

# Hinges



## BLUMOTION 971A for COMPACT hinges

### BLUMOTION 971A poly-bag set



Can be used for all COMPACT hinges

Set includes:

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

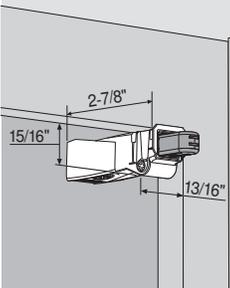
Part no.

Poly-bag set

**971A9700.22**

### Full overlay

- Full overlay – 1" or greater overlay

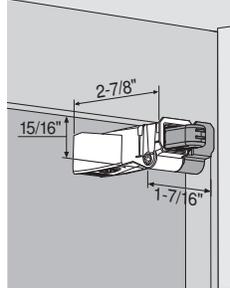


Part no.

|                             |                 |
|-----------------------------|-----------------|
| BLUMOTION                   | <b>971A9700</b> |
| Installation screw (1-1/4") | <b>8114Z</b>    |

### Partial overlay

- Partial overlay – less than 1" overlay



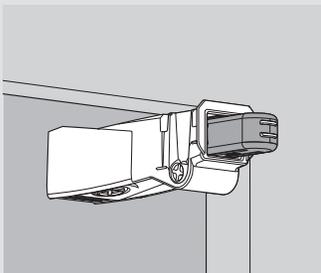
Part no.

|                         |                 |
|-------------------------|-----------------|
| BLUMOTION               | <b>971A9700</b> |
| Spacer                  | <b>971A9709</b> |
| Installation screw (2") | <b>8200Z</b>    |

## Specifications

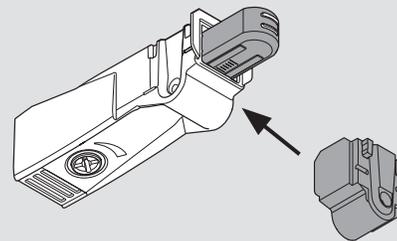
### Mounting

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



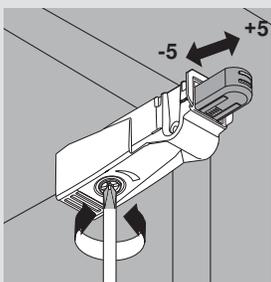
### Attachment of partial overlay spacer

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



### Adjustment

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

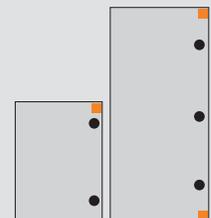


### BLUMOTION per door

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

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

- BLUMOTION 973A
- Hinges



COMPACT cover caps

**COMPACT 38N cover cap**



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

Part no.

|               |                |
|---------------|----------------|
| 38N cover cap | <b>70.7503</b> |
|---------------|----------------|

**COMPACT 39C/38C cover cap**

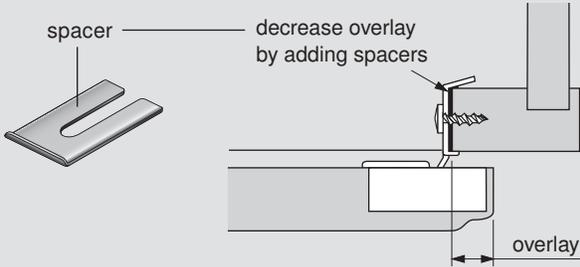


- Use with COMPACT 39C/38C hinges only
- Clip on attachment/removal
- Available blank/embossed blum logo or with printed custom logo (minimums apply)
- Steel, nickel-plated

Part no.

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

**Distance spacer**



- Decreases door overlay in 1/32" increments
- Can be stacked to achieve desired overlay reduction
- Steel, zinc-coated

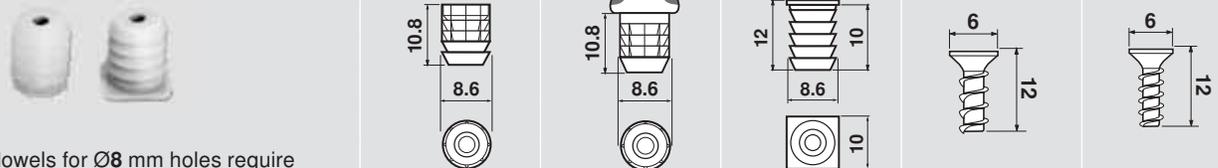
Part no.

|                 |                |
|-----------------|----------------|
| Distance spacer | <b>36.3515</b> |
|-----------------|----------------|

Dowel cross-reference chart

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

**Ø8 mm dowels**



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

| Dowels for Ø8 mm hole                 |                 | <b>70.0532</b> | <b>70T5582.01</b>       | <b>34.3582.01</b> | <b>602.1200</b>    | <b>608.1200</b>    |
|---------------------------------------|-----------------|----------------|-------------------------|-------------------|--------------------|--------------------|
| Type                                  | Series          | Without flange | Square head with flange | With flange       | Installation screw | Installation screw |
| CLIP top BLUMOTION, CLIP top and CLIP | 100°/107°       | ✓              |                         |                   |                    | ✓                  |
|                                       | 110°/110°+      |                | ✓                       |                   | ✓                  |                    |
|                                       | 120°/120°+      | ✓              |                         |                   |                    | ✓                  |
|                                       | 170°            | ✓              |                         |                   |                    | ✓                  |
|                                       | Thick door      | ✓              |                         |                   |                    | ✓                  |
|                                       | Zero protrusion | ✓              |                         |                   |                    | ✓                  |
|                                       | Diagonal 45°    | ✓              |                         |                   |                    | ✓                  |
|                                       | Blind corner    | ✓              |                         |                   |                    | ✓                  |
| Bi-fold                               | ✓               |                |                         |                   | ✓                  |                    |
| COMPACT BLUMOTION and COMPACT         | 38N             |                |                         | ✓                 |                    | ✓                  |
|                                       | 39C/38C/38B     |                |                         | ✓                 |                    | ✓                  |
|                                       | 33              |                |                         | ✓                 |                    | ✓                  |

COMPACT

**MINIPRESS P – Deluxe boring and insertion machine**



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

Part no.

Single phase – 220V power

**M53.1053\*US**

Three-phase – 220V power

**M53.1004\*US**

**MINIPRESS M – 110V manual boring and insertion machine**



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

Part no.

Single phase – 110V power

**M52.1056\*US**

**MINIDRILL P – Standard boring machine**



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

Part no.

Single phase – 220V power

**M53.1053\*50**

## 9 spindle head



**NOTE:** Requires 5 each left hand and 4 each right hand drill bits. Recommended drill bit size for quick disconnect chucks: overall length is 57 mm and shank is 10 mm in diameter and 27 mm in length.

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

**Includes:**

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

Part no.

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

## 8 spindle head



**NOTE:** Requires 4 each left hand and 4 each right hand drill bits. Recommended drill bit size for quick disconnect chucks: overall length is 57 mm and shank is 10 mm in diameter and 27 mm in length.

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

**Includes:**

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

Part no.

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

## Spindle head retrofit set



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

**Set includes:**

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

Part no.

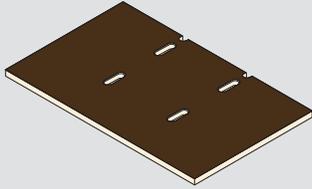
|                           |                    |
|---------------------------|--------------------|
| Spindle head retrofit set | <b>M30.1313.UM</b> |
|---------------------------|--------------------|

# Hinges



# Machine accessories

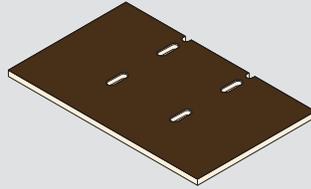
## Work table for M51 machine



Part no.

Work table **MZA.1000**

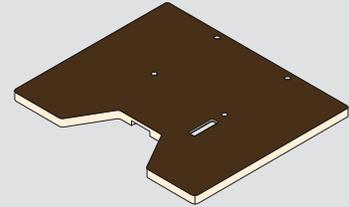
## Work table for M52 machine



Part no.

Work table **MZA.5200**

## Work table for M53 machine



Part no.

Work table **MZA.5300**

## Center ruler



Part no.

Center ruler, 600 (2') **M30.0212**

## Extension ruler



Part no.

Extension ruler, 1250 (4') **MZL.1250.US**

## Extension ruler support



Part no.

Extension ruler support **MZV.2100**

## Ruler stop

- Left or right ruler stop



Part no.

Ruler stop **MZS.3000**

## Small ruler stop

- Left or right ruler stop



Part no.

Small ruler stop **MZS.2000**

## Large ruler stop

- Symmetrical ruler stop



Part no.

Large ruler stop **MZS.1000**

## Fixed depth stop

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



Part no.

Fixed depth stop **M30.1304.01**

## Fixed depth stop

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



Part no.

Fixed depth stop **M30.1304.02**

## Digital counter set

- For MINIPRESS P



Part no.

Digital counter set **MZE.2110**

## Hold down clamp set



Part no.

Hold down clamp set **M53.0720.US**

## Laser center point set



Part no.

Laser center point set **MZR.5300.US**

## Breakaway clutch

- For use with MINIPRESS and MINIDRILL



Part no.

Breakaway clutch **MZK.2009**

**Euro hinge insertion ram**

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



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

Part no.

#10 insertion ram

**MZM.0010.01**

**Euro hinge insertion ram**

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



Part no.

#18 insertion ram

**MZM.0018**

**Euro hinge insertion ram**

- Can be used for inserting most Blum press-in Euro hinges



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

Part no.

#40 insertion ram

**MZM.0040**

**COMPACT hinge insertion ram**

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



Part no.

#47 insertion ram

**MZM.0047**

**Mounting plate insertion Ram**

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



Part no.

#53 insertion ram

**MZM.0053**

**Machine drill bits**



Ø5 mm



Ø8 mm



Ø10 mm



Ø35 mm

Part no.

Ø5 mm drill bit (right handed)

**M01.ZB05.D2 R**

Ø5 mm drill bit (left handed)

**M01.ZB05.D3 L**

Ø8 mm drill bit (left handed)

**M01.ZB08.03 L**

Ø10 mm drill bit (right handed)

**M01.ZB10.02 R**

Ø10 mm drill bit (left handed)

**M01.ZB10.03 L**

Ø20 mm drill bit (right handed)

**M01.ZB20.02 R**

Ø35 mm drill bit (right handed)

**M01.ZB35.02 R**

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

**Twist drill bits – high speed steel**



VPB-5



Twist drill bit



\*Chuck for DB-2 mm

Part no.

VPB-5 centering bit

**VPB-5**

Ø2 mm left

**DB-2mm**

Ø2.5 mm right

**DB-2.5mm**

Ø5 mm right

**DB-5mm**

Ø8 mm right

**DB-8mm**

Ø10 mm right

**DB-10mm**

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

Ø10 mm chuck for DB-2 mm

**DB-10 x 2mm**

### Knock-in tool



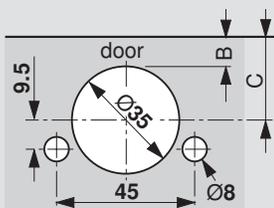
- Can be used to insert all Blum press-in hinges

Part no.

Knock-in tool

**ZME.0710**

### ECODRILL



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

Part no.

ECODRILL

**M31.1000**

#### Accessories

Replacement Ø35 mm bit

**M31.ZB35.02**

Replacement Ø8 mm bit

**M31.ZB08.02**

Tool set

**MZW.1300**

### ECOJIG



holes are:  
32 mm apart,  
37 mm setback



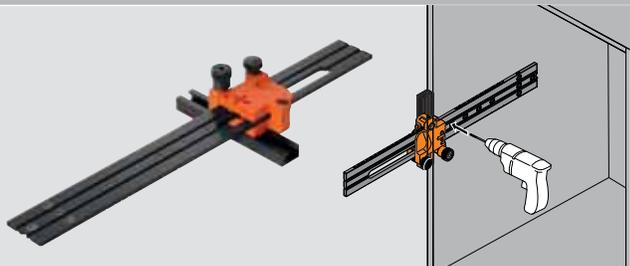
- Used to bore Ø5 mm holes for mounting plates that are mounted with system screws, EXPANDO dowels or INSERTA
- Also can be used to pre-bore Ø5 mm holes for EXPANDO BLUMOTION adapters
- Ø5 mm stop collar included

Part no.

ECOJIG

**65.5070**

### Universal individual template



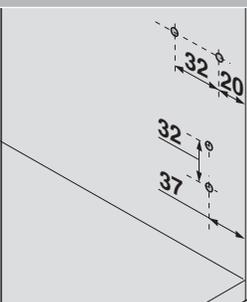
- For pre-boring mounting plates
- Also used for marking and pre-boring cabinet profiles, BLUMOTION, TIP-ON adapter plates and AVENTOS locating pins
- Calibrated scale for accurate setting

Part no.

Universal individual template

**65.1051.02**

### Mounting plate template



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

Part no.

Mounting plate template

**65.5300\***

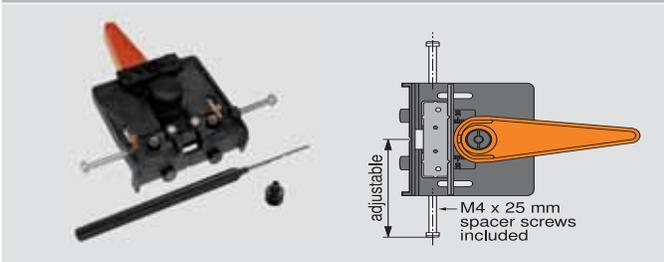
QUICKFIX



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

|                          |            |
|--------------------------|------------|
|                          | Part no.   |
| QUICKFIX                 | 65.7500.03 |
| <b>Accessories</b>       |            |
| Additional CLIP template | 65.7510.03 |
| 2.2 meter rail           | 65.7590    |
| Ø5 mm drill bit          | DB-5mm     |

PLATEMATE



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

|           |            |
|-----------|------------|
|           | Part no.   |
| PLATEMATE | 65.5030.01 |

Dowelling fixture



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

|                   |          |
|-------------------|----------|
|                   | Part no. |
| Dowelling fixture | 69.3600  |

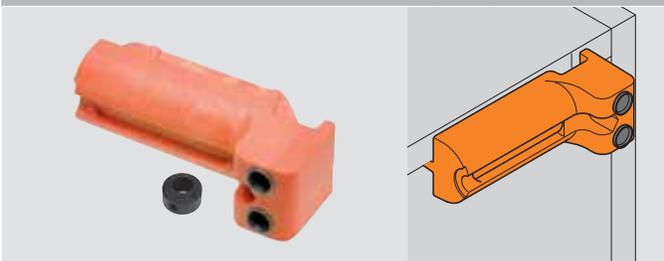
INSERTA boring template



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

|                         |          |
|-------------------------|----------|
|                         | Part no. |
| INSERTA boring template | 65.059A  |

BLUMOTION and TIP-ON for doors boring template



- For pre-boring BLUMOTION and TIP-ON units
- Ø10 mm drill bushing for edge boring
- Bores left and right side of cabinet
- Includes Ø10 mm stop collar

|  |          |
|--|----------|
|  | Part no. |
| BLUMOTION and TIP-ON for doors boring template | 65.5010  |

# Hinges



# Assembly aids

## Deep thread wood screw

For attaching hinges and mounting plates

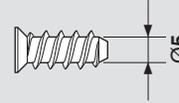


Part no.

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

## Deep thread system screw

Pilot bore Ø5 (3/16") hole

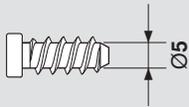


Part no.

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

## Pan head system screw

Pilot bore Ø5 (3/16") hole



Part no.

|                       |                    |
|-----------------------|--------------------|
| #7 x 14.5 mm, #2 POZI | <b>668.1450.EH</b> |
|-----------------------|--------------------|

## Truss head screw

For attaching COMPACT hinges to face frame  
Type 17



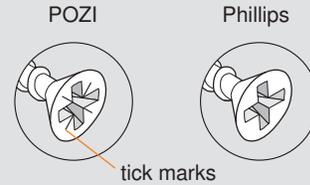
Part no.

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

## POZI DRIVER and bits



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



Part no.

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

## Twin application screw

Pre-bored Ø5 (3/16") hole

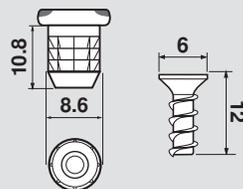


Part no.

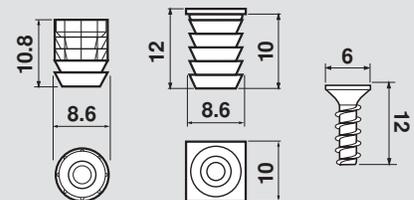
|   |                 |
|---|-----------------|
| 14 (9/16") screw  | <b>612.2010</b> |
| 16 (5/8") sleeve<br>For panel thickness<br>16 - 20 mm   | <b>612.2020</b> |
| 20 (25/32") sleeve<br>For panel thickness<br>20 - 24 mm | <b>612.2420</b> |

## Ø8 mm dowels

Square head dowel for attaching to hinges

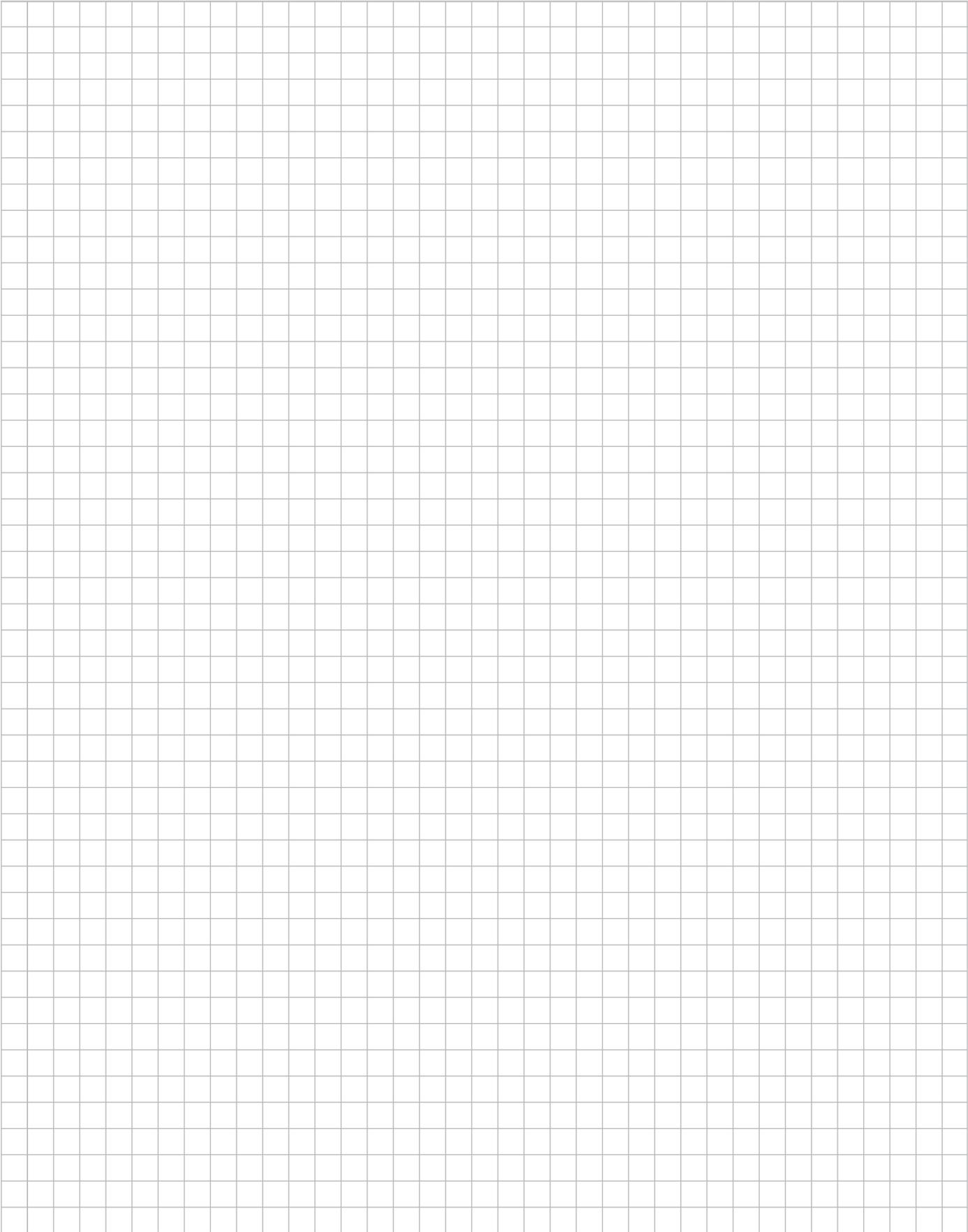


Round dowel for insertion into doors

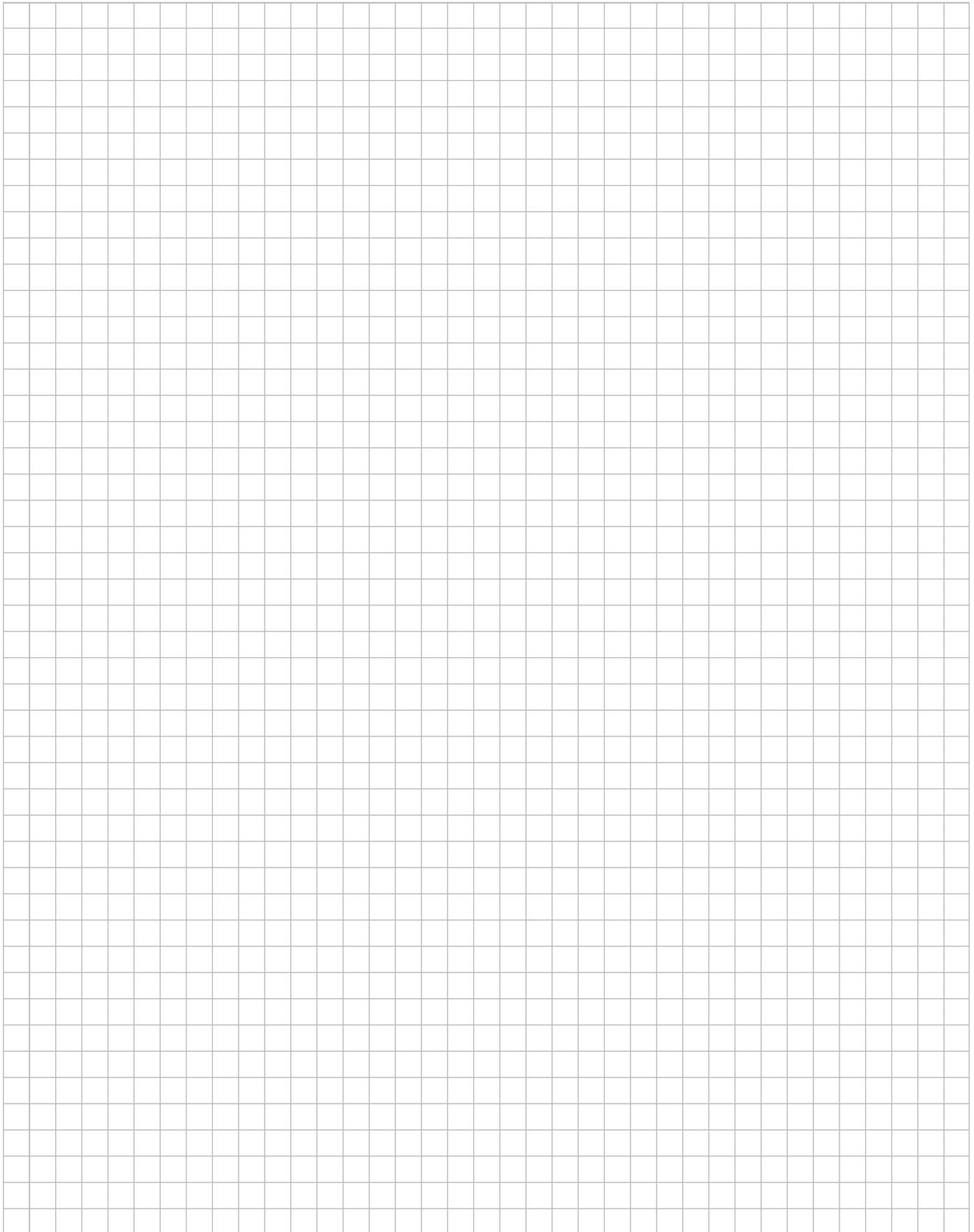


Part no.

|                    |                   |                    |                   |
|--------------------|-------------------|--------------------|-------------------|
| Ø8 mm square dowel | <b>70T5582.01</b> | Ø8 mm round dowel  | <b>70.0532</b>    |
| Installation screw | <b>602.1200</b>   | With flange        | <b>34.3582.01</b> |
|                    |                   | Installation screw | <b>608.1200</b>   |







# Hinges



# Part numbers

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|-------------|----------|------------|--------|--------------|--------|------------|--------|
| 130.1100.22 | 88       | 175L8190   | 57     | 39C355C.16   | 85     | 707N       | 97     |
| 130.1100.23 | 88       | 177H3100   | 59     | 39C355C.20   | 85     | 70M2550.TL | 42     |
| 130.1100.24 | 88       | 177H3100E  | 59     | 39C355C.21   | 85     | 70M2580.TL | 42     |
| 130.1100.26 | 88       | 177H3130E  | 59     | 39C355C.22   | 85     | 70M2650.TL | 42     |
| 130.1110.02 | 88       | 181.6130   | 55     | 39C355C.24   | 85     | 70M2750.TL | 42     |
| 130.1120.02 | 88       | 33.3600    | 87     | 39C358B.16   | 79     | 70M2780.TL | 42     |
| 130.1130.02 | 88       | 33.3630    | 87     | 39C358B.20   | 79     | 70T1504    | 55     |
| 130.1140.02 | 88       | 34.3582.01 | 90     | 39C358B.21   | 79     | 70T3504    | 55     |
| 130.1150.02 | 88       | 36.3515    | 82, 90 | 39C358B.22   | 79     | 70T3507.21 | 55     |
| 130.1160    | 88       | 38B355BF22 | 81     | 39C358B.24   | 79     | 70T3550.TL | 21     |
| 133.0240    | 88       | 38B358BF22 | 81     | 39C358B.25   | 79     | 70T3553    | 56     |
| 171A5010    | 44       | 38C315B3.1 | 82     | 39C358C.16   | 85     | 70T3580.TL | 21     |
| 171A5040    | 44       | 38C3508    | 82, 90 | 39C358C.20   | 85     | 70T3590.TL | 21     |
| 171A5070    | 44       | 38C3508.BP | 82, 90 | 39C358C.21   | 85     | 70T3650.TL | 21     |
| 171A5500    | 44       | 38C355B.20 | 80     | 39C358C.22   | 85     | 70T3690.TL | 21     |
| 173H7100    | 58       | 38C355B9   | 82     | 39C358C.24   | 85     | 70T3750.TL | 21     |
| 173H7130    | 58       | 38C355C.20 | 86     | 39C358C.25   | 85     | 70T5582.01 | 90     |
| 173H9100    | 58       | 38C358B.20 | 80     | 58.0890.1198 | 87     | 70T6540BTL | 26     |
| 173H9130    | 58       | 38C358C.20 | 86     | 602.1200     | 90     | 70T6550.TL | 26     |
| 173L6100    | 57       | 38C358C.21 | 86     | 6062N        | 97     | 70T6650.TL | 26     |
| 173L6130    | 57       | 38C358C.22 | 86     | 6064N        | 97     | 70T7503N   | 56     |
| 173L8100    | 57       | 38C358C.24 | 86     | 606N         | 97     | 70T7503N09 | 56     |
| 173L8130    | 57       | 38C358C.25 | 86     | 606P         | 97     | 70T9550.TL | 25     |
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| 174E610Z    | 57       | 38N3508BBP | 82     | 612.2010     | 97     | 70T9650.TL | 25     |
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| 174H710ZE   | 58       | 38N355B.10 | 78     | 65.059A      | 96     | 71B3580    | 13     |
| 174H7130E   | 58       | 38N355B.12 | 78     | 65.1051.02   | 95     | 71B358E    | 13     |
| 174H7130I   | 58       | 38N355BE08 | 78     | 65.5010      | 96     | 71B3590    | 13     |
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| 175H6000    | 60       | 38N355C.10 | 84     | 65.5300*     | 95     | 71B3690    | 13     |
| 175H6030    | 60       | 38N355C.12 | 84     | 65.7500.03   | 96     | 71B3750    | 13     |
| 175H6040    | 60       | 38N355CE08 | 84     | 65.7590      | 96     | 71B3780    | 13     |
| 175H6060    | 60       | 38N358B.05 | 78     | 65.7510.03   | 96     | 71B3790    | 13     |
| 175H6600    | 60       | 38N358B.06 | 78     | 661.1000.HG  | 97     | 71B950A    | 19     |
| 175H7100    | 59       | 38N358B.08 | 78     | 661.1150.HG  | 97     | 71B9550    | 15     |
| 175H7130    | 59       | 38N358B.10 | 78     | 661.1300.HG  | 97     | 71B9580    | 15     |
| 175H7190    | 59       | 38N358B.12 | 78     | 661.1450.HG  | 97     | 71B9590    | 15, 44 |
| 175H9100    | 59       | 38N358BE08 | 78     | 661.2000.HG  | 97     | 71B9650    | 15     |
| 175H9130    | 59       | 38N358C.06 | 84     | 661.2500.HG  | 97     | 71B9680    | 15     |
| 175H9160    | 59       | 38N358C.08 | 84     | 668.1450.EH  | 97     | 71B9690    | 15, 44 |
| 175H9190    | 59       | 38N358C.10 | 84     | 69.3600      | 96     | 71B9750    | 15     |
| 175H9190.22 | 59       | 38N358C.12 | 84     | 70.0532      | 90     | 71B9780    | 15     |
| 175L6030.21 | 60       | 38N358CE08 | 84     | 70.1503      | 55     | 71B9790    | 15, 44 |
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| 175L6600.24 | 60       | 39C355B.20 | 79     | 70.1563      | 55     | 71M2580    | 42     |
| 175L6630.22 | 60       | 39C355B.21 | 79     | 70.1663      | 55     | 71M2590B   | 42     |
| 175L6660.22 | 60       | 39C355B.22 | 79     | 70.6103      | 56     | 71M2650    | 42     |
| 175L8100    | 57       | 39C355B.24 | 79     | 70.7503      | 55, 90 | 71M2680    | 42     |
| 175L8130    | 57       | 39C355B.25 | 79     | 7074N        | 97     | 71M2690B   | 42     |

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| 71M2790B   | 42       | 73T3580    | 22     | 834TH         | 97 | MZA.5200      | 93 |
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| 71T3590    | 21       | 73T558E    | 24     | 956.1201      | 72 | MZM.0010.01   | 94 |
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| 71T3680    | 21       | 74.1103    | 56     | 956A1501      | 72 | MZM.0040      | 94 |
| 71T3690    | 21       | 75M1580    | 41     | 970.5201      | 67 | MZM.0047      | 94 |
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| 71T3790    | 21       | 75T1590B   | 20     | 970A1002      | 67 | MZS.1000      | 93 |
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| 73B358E    | 14       | 80.6507    | 55     | M53.1053*50   | 91 |               |    |





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Blum, Inc.  
7733 Old Plank Rd.  
Stanley, NC 28164  
800-438-6788  
[blum.com](http://blum.com)

