



Hinge

**ASSA ABLOY**

The global leader in  
door opening solutions

# ASSA ABLOY Door Hinges

## Features & Benefits

ASSA ABLOY

### Door Hinges

#### Key features:

- Standard Imperial hole pattern
- Available grade SS 304
- Fire rated
- 2,000,00 cycles tested
- Ball Bearing

#### Benefits:

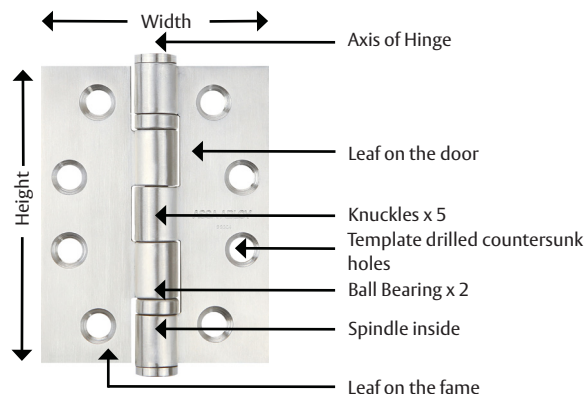
- Suitable for Interior and Exterior doors (Wooden & Metal)
- High corrosion resistance
- Suitable for fire rated doors
- High durability
- Friction resistance

### Standard & Certifications

EN1935  
CE Marked

#### Technical details:

- Manufactured from high grade stainless steel
- Easily seated pin that will not rise during normal use
- Available hinges -
  1. Ball Bearing hinge
  2. Flush hinge
  3. Lift Off hinge
  4. Spring hinge
  5. Concealed hinge
- ASSA ABLOY hinges are suitable for high traffic doors and commercial applications
- Suitable for door weight up to 120 kg



**\*Note:** Some of the abovementioned features may not be applicable for all model of hinges.  
CE Marking and Fire Rating is applicable for only Stainless Steel SS 304 Grade Ball Bearing hinges.

## Ball Bearing Hinges

### Specifications

#### Application:

There are a few variables which must be considered and guidelines to be observed, in order to determine hinge selection for individual doors. It is recommended that the guidelines contained in this catalogue are followed. When reading dimensions, the first figure always indicates the height and the second indicates the width and the third indicates the thickness.  
e.g. 102mm x 76mm x 3mm

#### Hinge height:

The appropriate hinge height for any job is dependent upon the door width, thickness and weight. The height of the hinge is the length of the flap, not including the tips of the pin, as shown in the below diagram.

#### Number of hinges per door:

The following quantity of hinges are recommended for doors of various door height

- Two hinges - Up to 1524mm
- Three hinges - 1524mm - 2286mm
- Four hinges - 2286mm - 3048mm

#### Note:

- For each additional 762mm (30") add one hinge.

#### Fixing screws:

Each butt hinge is supplied with the appropriate sized wood screws. Metal door screws are optional

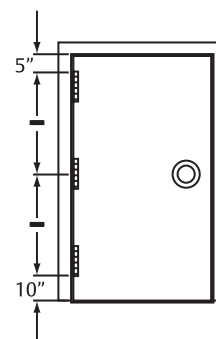
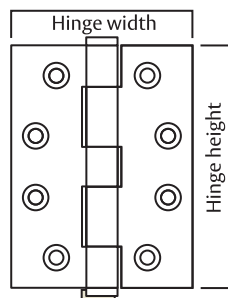
- 8 Gauge screws for 76mm width hinge
- 10 Gauge screws for 102mm and greater width hinges

#### Hinge width:

The door thickness and door jamb width (also trim size if applicable) determine the width of the hinge required. The width is measured across the leaves when the hinge is fully opened as shown in the below diagram.

#### Finishes:

Satin Stainless Steel - SSS



## Ball Bearing Hinges

### Selection Chart

The following chart will be most useful in selecting the correct hinge type. Simply identify the dimensions of the door to be installed and read off the recommended hinge selection. Consideration to door weight must be assessed prior to hinge selection. Variations to this chart will need to be made only in unusual circumstances on specific jobs or according to personal preferences.

**Note:** The chart is intended as a guide only and as such is not meant to be exhaustive or any more than a rule of thumb for particular application.

Door thickness (mm)	Door width (mm)	Door height (mm)	Recommended hinge selection
30mm - 45mm	Under 900	2100mm 2040mm - 2340mm 2100mm	3 Hinges-102 x 76 x 2.5 3 Hinges-102 x 76 x 2.5 3 Hinges-102 x 76 x 3.0
	900 - 1000	2040mm - 2340 mm 2340mm - 3000 mm	3 Hinges-102 x 76 x 3.0 4 Hinges-102 x 76 x 3.0
	Over 1000	2100mm 2040mm - 2340mm 2340mm - 3000mm	3 Hinges-102 x 76 x 3.0 3 Hinges-102 x 102 x 2.5 4 Hinges-102 x 102 x 2.5
45mm - 55mm	Under 900	2100mm 2040mm - 2340mm 2340mm - 3000mm	3 Hinges-102 x 102 x 2.5 3 Hinges-127 x 89 x 3.0 4 Hinges-127 x 89 x 3.0
	900 - 1000	2100mm 2040mm - 2340mm 2340mm - 3000mm	3 Hinges-127 x 89 x 3.0 3 Hinges-127 x 89 x 3.0 4 Hinges-127 x 89 x 3.0
	Over 1000	2100mm 2040mm - 2340mm 2340mm - 3000mm	3 Hinges-127 x 102 x 3.0 3 Hinges-127 x 102 x 3.0 4 Hinges-127 x 102 x 3.0

# Door Hinges - Fire Rated

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## Ball Bearing Hinges

**Model no.:** AH2BB-01, AH2BB-02, AH2BB-03  
AH2BB-04, AH2BB-05

### Description:

AH2BB-01 102 x 76 x 2.5 - 2 Ball Bearing Button  
Tipped SSS 304

AH2BB-02 102 x 76 x 3.0 - 2 Ball Bearing Button  
Tipped SSS 304

AH2BB-03 127 x 76 x 3.0 - 2 Ball Bearing Button  
Tipped SSS 304

AH2BB-04 127 x 89 x 3.0 - 2 Ball Bearing Button  
Tipped SSS 304

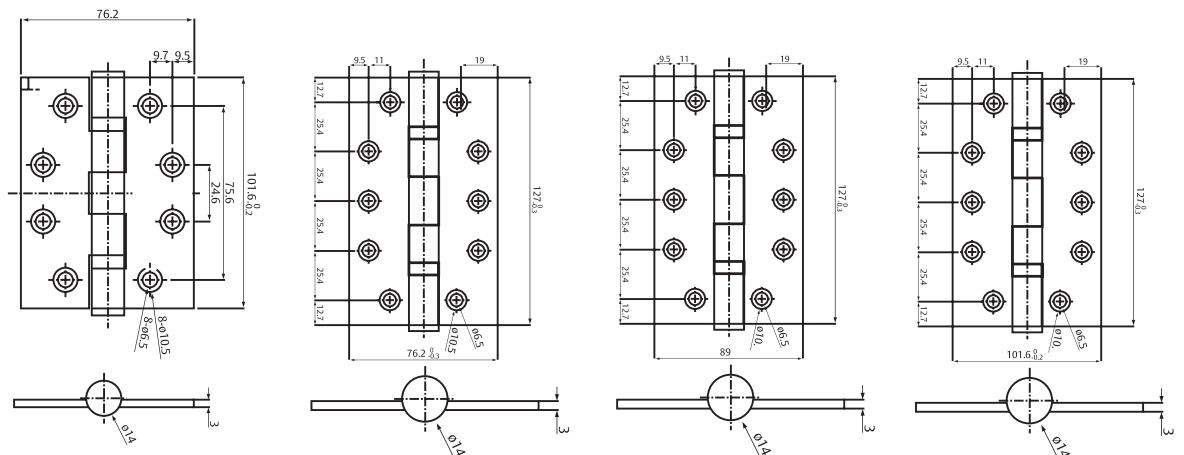
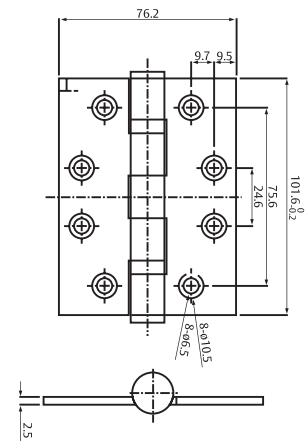
AH2BB-05 127 x 102 x 3.0 - 2 Ball Bearing Button  
Tipped SSS 304



## Product Information

### Hinge Size (mm):

Height	Width	Thickness	Grade
102	76	2.5	SSS 304
102	76	3	SSS 304
127	76	3	SSS 304
127	89	3	SSS 304
127	102	3	SSS 304



**\*Note:** The above model Hinges come with wooden screws as standard.  
Please clearly mention metal screws while ordering for metal doors.  
Add "M" as suffix in the model no., E.g. AH2BB-01M

# Door Hinges - Special Application

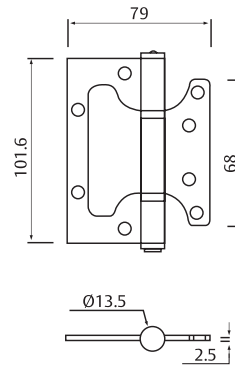
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## Flush Hinge

**Model No.:** AA-FH-01

**Description:** Stainless Steel Flush hinge

Model No.	L	W	T	Door Mass
AA-FH-01	101	79	2.5	40 kg

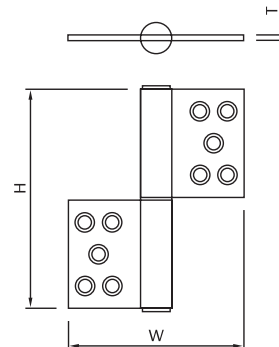


## Lift Off Hinge

**Model No.:** AA-LH-01, AA-LH-02

**Description:** Stainless Steel Lift Off hinge

Model No.	L	W	T	Door Mass
AA-LH-01	100	88	3	40 kg
AA-LH-02	127	100	3	40 kg

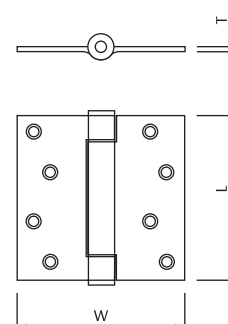


## Spring Hinge

**Model No.:** AA-SH-01, AA-SH-02

**Description:** Stainless Steel Single Action Spring hinge

Model No.	L	W	T	Door Mass
AA-SH-01	102	102	3	40 kg
AA-SH-02	102	76	3	40 kg



# Door Hinges - Concealed

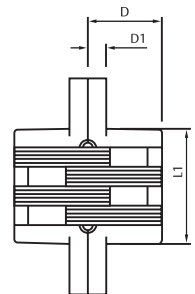
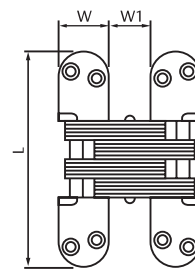
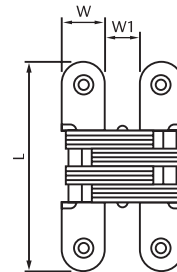
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## Light Duty Concealed Hinge

**Model No.:** AA-CH-01, AA-CH-02, AA-CH-03,

**Description:** Zinc alloy concealed hinge

Model No.	L	L1	W	W1	D	D1	Door Mass
AA-CH-01	118	65	25	17	38	12	40 kg
AA-CH-02	118	62	28	22	42	10.5	40 kg
AA-CH-03	140	75	35	28	51	12	60 kg



## 3D Adjustable Concealed Hinge

AA-3CH-01  
AA-3CH-02

**Model No.:** AA-3CH-01, AA-3CH-02

**Description:**

- 3D adjustable concealed hinge
- Area of application: For wooden frames, for flush wooden interior doors
- Door weight: AA-3CH-01-40 kg , AA-3CH-02-60 kg
- Opening angle: <180°
- Adjustment facility: Continuously 3D Adjustable - height , side and closing pressure  $\pm 1$ mm



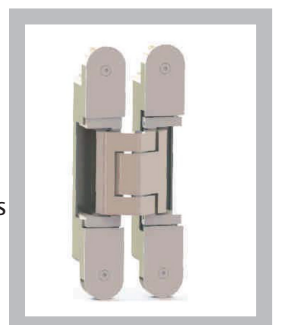
## 3D Adjustable Concealed Hinge

AA-3CH-03  
AA-3CH-04

**Model No.:** AA-3CH-03, AA-3CH-04

**Description:**

- 3D adjustable concealed hinge
- Application: For wooden/steel/aluminium frames
- Door thickness: >40mm; Opening angle: <180°
- Door weight: AA-3CH-03-80 kg with 3 Hinges, AA-3CH-04-120 kg with 3 hinges
- Door width: AA-3CH-03-  $\leq 1000$ mm, AA-3CH-04- $\leq 1200$ mm
- Adjustment feature: AA-3CH-03- Continuously 3D adjustable height, side  $\pm 3.0$ mm and closing pressure  $\pm 1$ mm, AA-3CH-04- (side  $\pm 3.5$ mm)





# Door Hinges - Concealed

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## 3D Adjustable Concealed Hinge

### Instructions and Templates

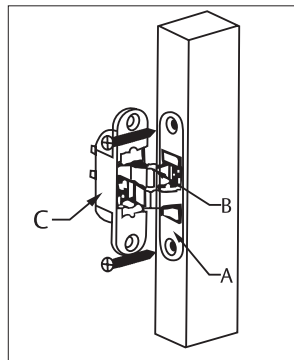
#### 3D Adjustable Concealed Hinge Fitting Instructions (for wooden door)

**Model no.:** AA-3CH-01

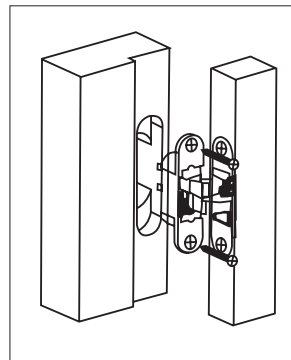
For non-rebated interior doors

Door weight ≤40 kg/2pc, door width ≤900mm, Door thickness ≥35mm

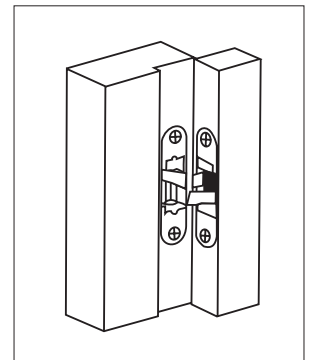
##### Installation



1. Install hinge on the door leaf, with adjusting hole B always up, hinge part A on door leaf & hinge part C on the door frame.

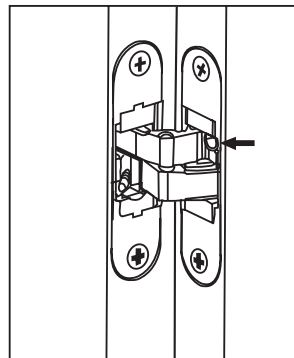


2. install hinge on the door frame.

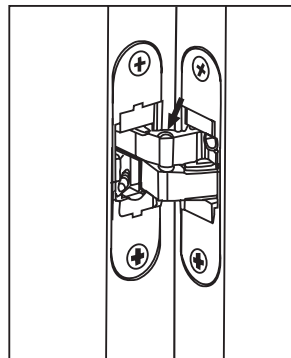


3. Stick the self-adhesive cover plates on the hinge after completion of adjustment.

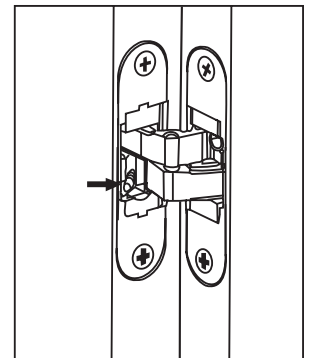
##### Hinge Adjustment



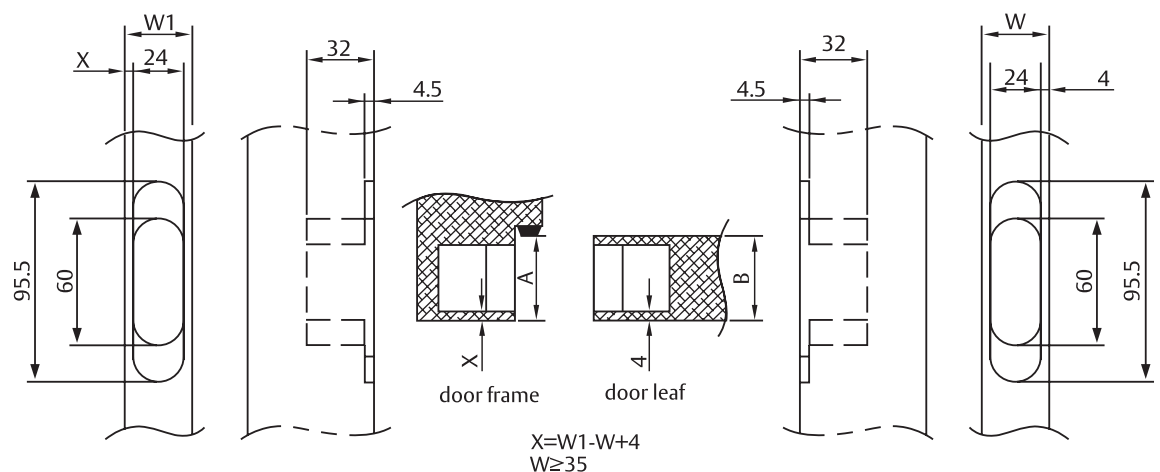
Depth Adjustment:  
Use an allen key to twist the screw (arrow marked).  
Depth adjustment: ±1.0mm



Height Adjustment:  
Use an allen key to twist the screw (arrow marked).  
Height adjustment: ±1.5mm



Side Adjustment:  
Use an allen key to twist the screw (arrow marked).  
Side adjustment: ±1.0mm



Template for door frame

Template for door frame



# Door Hinges - Concealed

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## 3D Adjustable Concealed Hinge

### Instructions and Templates

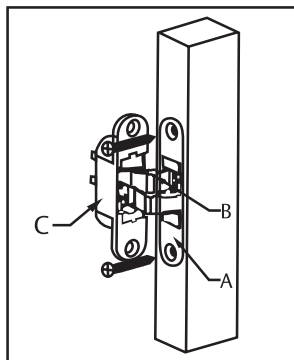
#### 3D Adjustable Concealed Hinge Fitting Instructions (for wooden door)

**Model no.:** AA-3CH-02

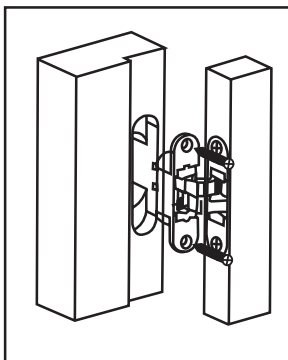
For non-rebated interior doors

Door weight ≤ 60 kg/2pc, door width ≤ 900mm, Door thickness ≥ 35mm

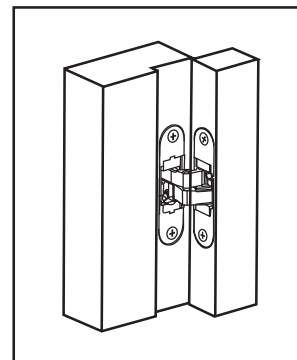
#### Installation



1. Install hinge on the door leaf, with adjusting hole B always up, hinge part A on door leaf & hinge part C on the door frame.

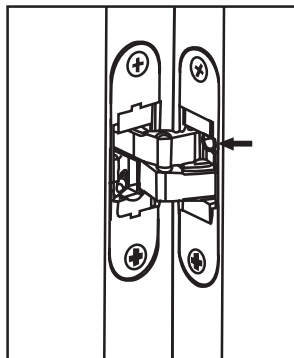


2. install hinge on the door frame.

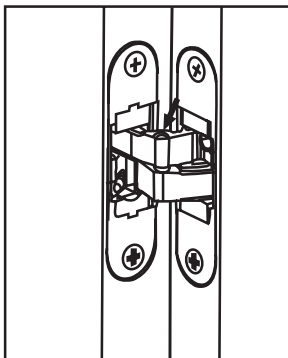


3. Stick the self-adhesive cover plates on the hinge after completion of adjustment.

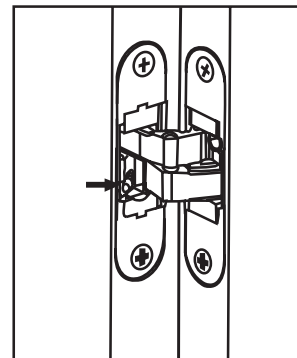
#### Hinge Adjustment



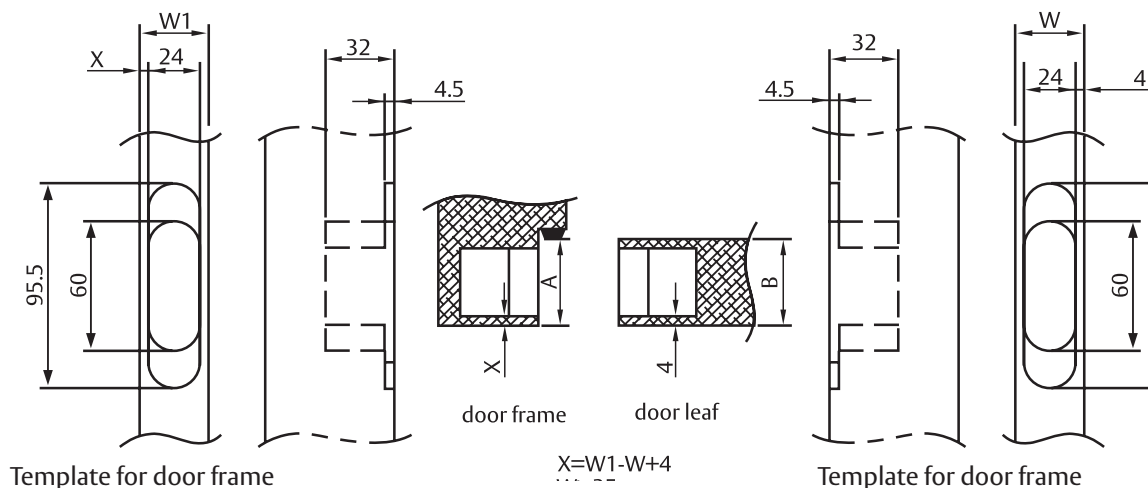
Depth Adjustment:  
Use an allen key to twist the screw (arrow marked).  
Depth adjustment: ±1.0mm



Height Adjustment:  
Use an allen key to twist the screw (arrow marked).  
Height adjustment: ±1.5mm



Side Adjustment:  
Use an allen key to twist the screw (arrow marked).  
Side adjustment: ±1.0mm



# Door Hinges - Concealed

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## 3D Adjustable Concealed Hinge

### Instructions and Templates

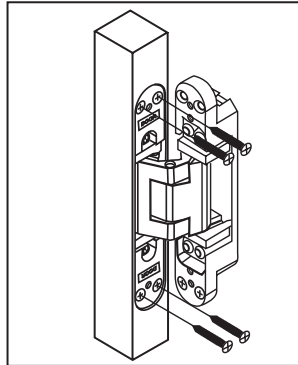
## 3D Adjustable Concealed Hinge Fitting Instructions (for wooden door)

**Model no.:** AA-3CH-03

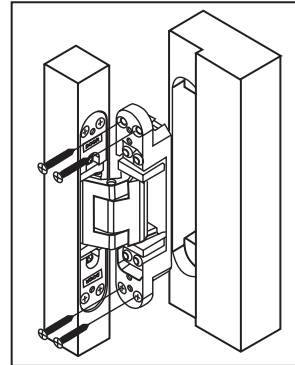
For non-rebated interior doors

Door weight ≤ 60 kg/2pc, door width ≤ 900mm, Door thickness ≥ 35mm

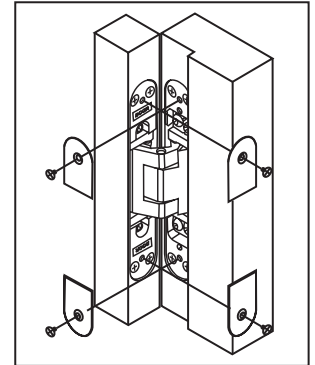
### Installation



1. Install hinge on the door leaf, with hinge part stamping marked with "Door" on door leaf.

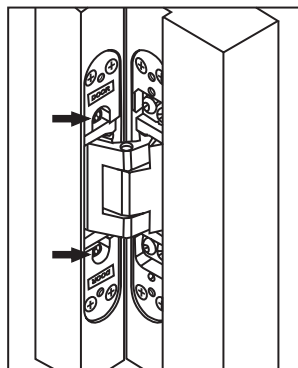


2. install hinge on the door frame.

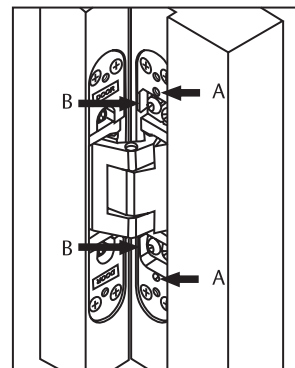


3. Fix cover plates on the hinge with screws after completion of adjustment.

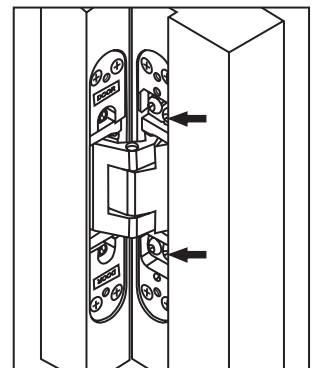
### Hinge Adjustment



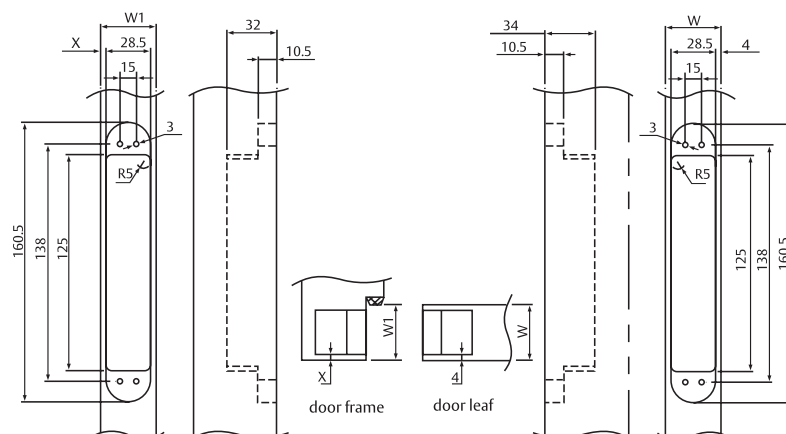
**Side Adjustment:**  
Use an allen key to twist the screw (arrow marked). Both the upper and the lower screws are requested to be adjusted in the same way.  
Side adjustment:  $\pm 2.5\text{mm}$



**Height Adjustment:**  
Slightly loosen the grab screws (arrow marked with B.) Both the upper and the lower screws (arrow marked with B.) are requested to be adjusted and tightened in the same way. Retighten the grab screws (arrow marked with A)  
Height adjustment:  $\pm 2.5\text{mm}$



**Depth Adjustment:**  
Use an allen key to twist the Both the upper and the lower screws are requested to be adjusted and tightened in the same way.  
Depth adjustment:  $\pm 1.0\text{mm}$



AA-3CH-03

# Door Hinges - Concealed

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## 3D Adjustable Concealed Hinge

## Instruction and Templates

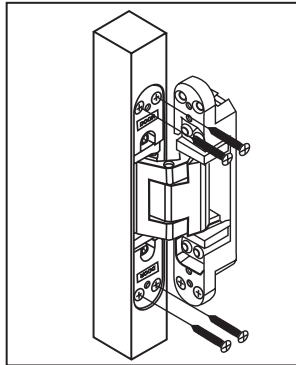
### 3D Adjustable Concealed Hinge Fitting Instructions (for wooden door)

**Model no.:** AA-3CH-04

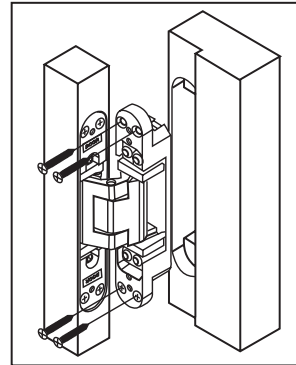
For non-rebated interior doors

Door weight  $\leq 120$  kg/2pc, door width  $\leq 1000$ mm, Door thickness  $\geq 40$ mm

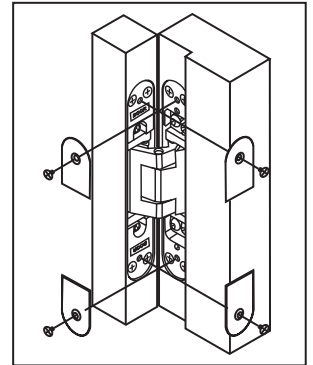
#### Installation



1. Install hinge on the door leaf, with hinge part stamping market with "Door" on door leaf.

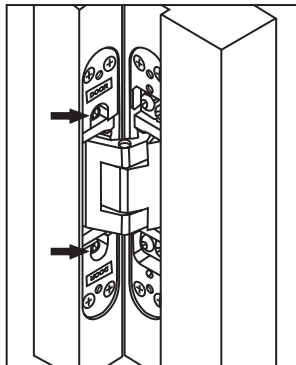


2. install hinge on the door frame.

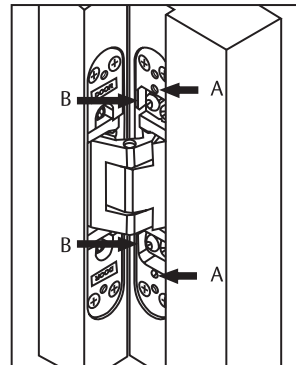


3. Fix cover plates on the hinge with screws after completion of adjustment.

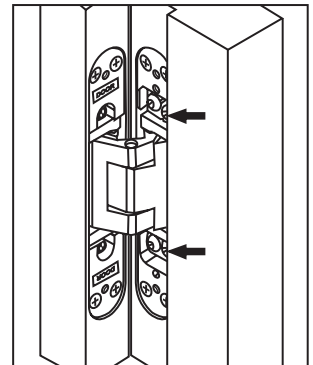
#### Hinge Adjustment



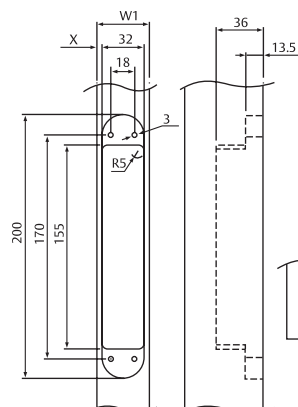
Side Adjustment:  
Use an allen key to twist the screw (arrow marked). Both the upper and lower screws are requested to be adjusted in the same way.  
Side adjustment:  $\pm 3.0$ mm



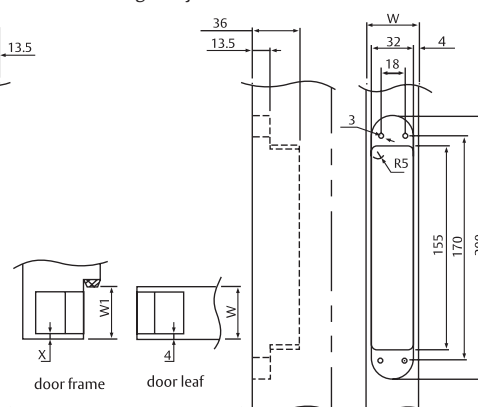
Height Adjustment:  
Slightly loosen the gap screws (arrow marked with A). Use an allen key to twist the screw (arrow marked with B). Both the upper and lower screws (arrow marked with B) are requested to be adjusted and tightened in the same way. Retighten the gap screws (arrow marked with A)  
Height adjustment:  $\pm 3.0$ mm



Depth Adjustment:  
Use an allen key to twist the screw (arrow marked). Both the upper and lower screws (arrow marked with B) are requested to be adjusted and tightened in the same way.  
Depth adjustment:  $\pm 1.0$ mm



Template for door frame



Template for door frame

$$X = W1 - W + 4$$

$$W \geq 40$$