



# ECLIPSE *collection*

Concealed hinges  
for internal doors



Open, Close, Live



# Invisible from outside, improves the door design

AGB introduces the ECLIPSE: the range of concealed hinges for internal doors combines design, technological functionalities and installation simplicity.

Concealed hinges for internal doors	5
High loading capacity concealed hinges	45
High loading capacity concealed hinges with built-in door closer	75
Accessories	91

### A complete supplier



Unique reference  
for quality and service.



All the accessories for the  
door with matched finishes.



Reduced time of  
management.

### Customisation



Customised accessories kit.



Hinges and locks  
with your logo.



Customised finishes.

## AGB: a partner with an integrated vision of the door system

### The know-how of a specialist



More than 70 years'  
experience.



Better solutions.



Strict test in AGBLab.

### 100% Made in Italy



4 plants in Italy.



Research, design  
and creation.



Partnership and collaboration  
for development.



### Adjustments



The adjustments of the Eclipse range have been created to ensure a long-lasting stability and simplicity of use (just one key for all adjustments), as the cyclic tests demonstrate, according to the regulation EN 1935, and the EAD regulations 020001-01-0405.

### Range



With the same milling, many applications for doors in wood and aluminium, fire resistant, reversible and flush doors to the wall. A complete range of accessories is available for each model.

## Advantages of the Eclipse range for all the internal doors

### Finishes



Eclipse range offers a wide choice of finishes. It is possible to customise the hinges finish without changing the high level of corrosion resistance.

All finishes have been tested in salt spray according to the regulation EN 9227.

### Simplicity of management and installation



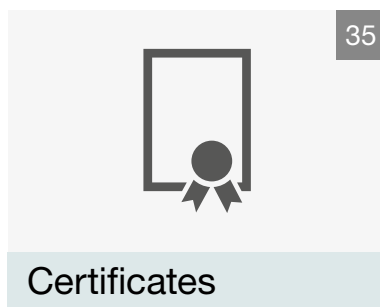
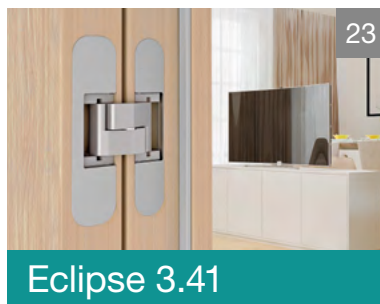
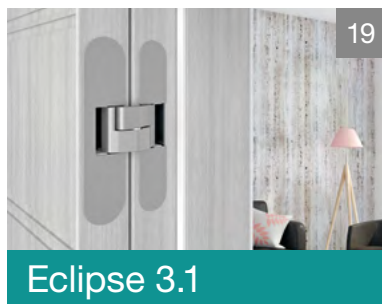
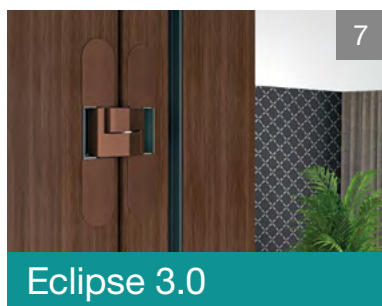
The whole Eclipse range is made up of non-handed hinges. Moreover, sash and frame parts can be installed separately during production and joined on-site.

The management of orders, warehouse and installation become more simple and fast.



# Concealed hinges for internal doors

# Concealed hinges for internal doors



Eclipse	TECHNICAL INFORMATION						APPLICATIONS			CERTIFICATES		
	capacity	adjustment	opening	max. extension	covers applications		flush doors with rebate	flush doors without rebate	aluminium flush doors	fire and smoke resistant doors	ift ROSENHEIM EAD 020001-01-0405 EN 1935	UL LISTED UL LISTED
3.0	x3 = 60 kg	3	180°	14 mm		●	●	●	●	60 minutes	●	60 minutes
	x2 = 40 kg											
3.2	x3 = 60 kg	3	180°	14 mm	●		●	●	●	60 minutes	●	60 minutes
	x2 = 40 kg											
3.3	x3 = 60 kg	3	180°	14 mm	●		●	●	●	60 minutes		60 minutes
	x2 = 40 kg											
3.1	x3 = 60 kg	3	180°	14 mm		●		●	●	60 minutes	●	60 minutes
	x2 = 40 kg											
3.41	x3 = 60 kg	3	180°	14 mm	●			●	●			
	x2 = 40 kg											
3.4	x3 = 60 kg	3	180°	14 mm	●			●	●	60 minutes	●	60 minutes
	x2 = 40 kg											
3.44	x3 = 60 kg	3	180°	14 mm	●			●	●			
	x2 = 40 kg											

# Eclipse 3.0

## For internal flush aluminium and wooden doors

Concealed hinge for flush doors with or without rebate.

Suitable for aluminium frames, thanks to the 4 mm thickness of hinge fastening.

Completely invisible thanks to its reduced dimensions. Easy installation and covers with coverplate. Suitable for fire doors.



Ideal even for  
aluminium frames.



Invisible thanks to  
reduced dimensions.



For wood and  
aluminium doors.

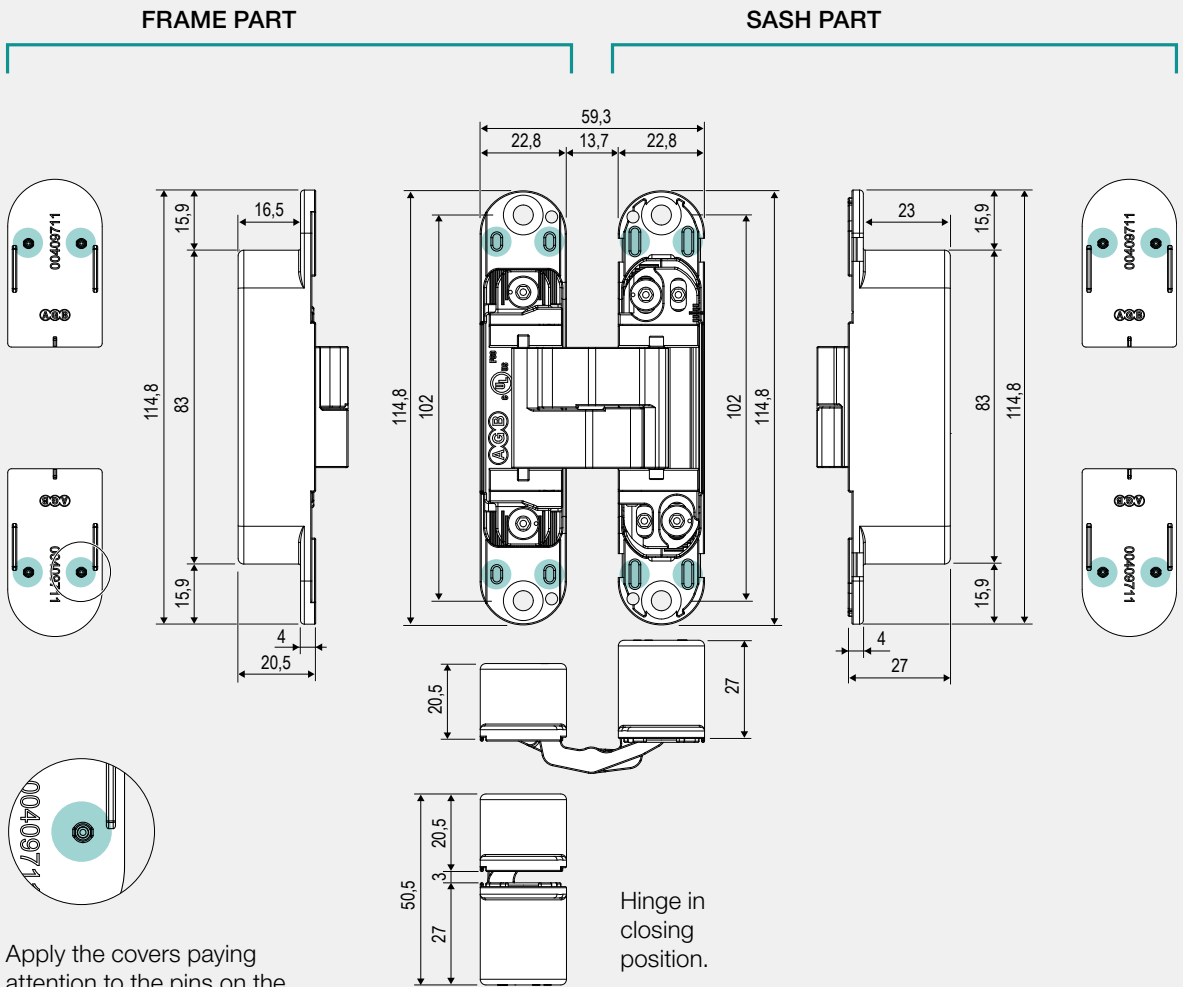


Three adjustments  
completely independent.

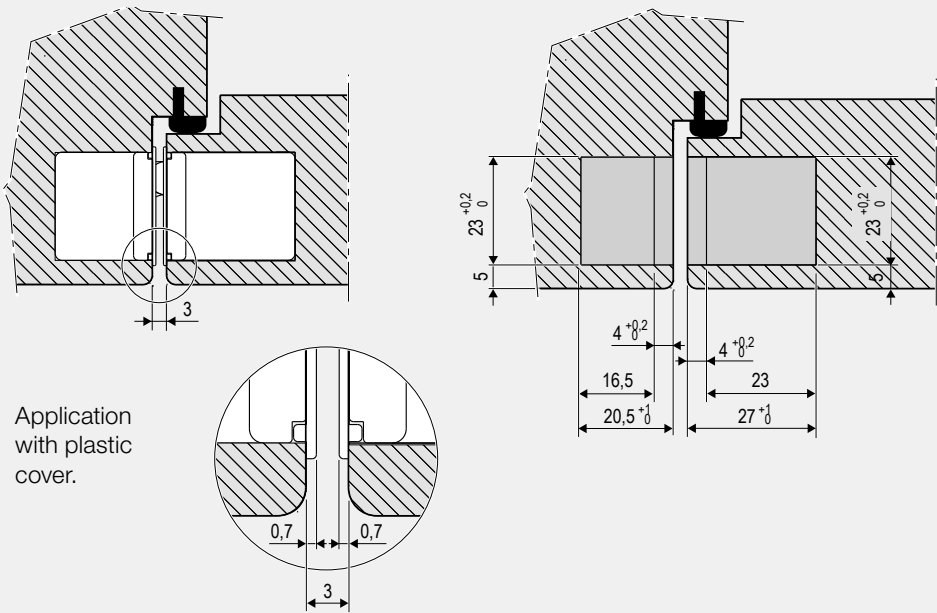


Covers with  
coverplate.

# Hinge dimensions

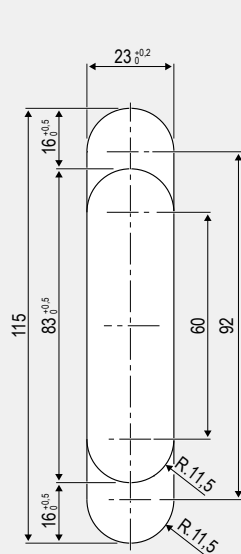


# Hinge application

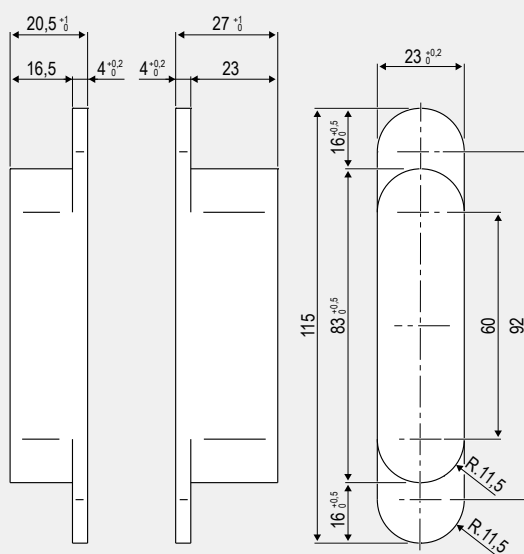


## Drilling diagram

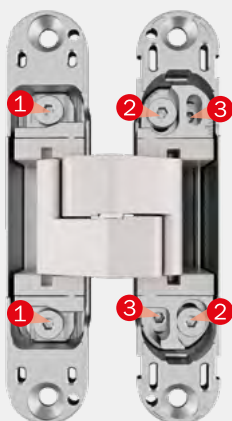
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

## Finishes

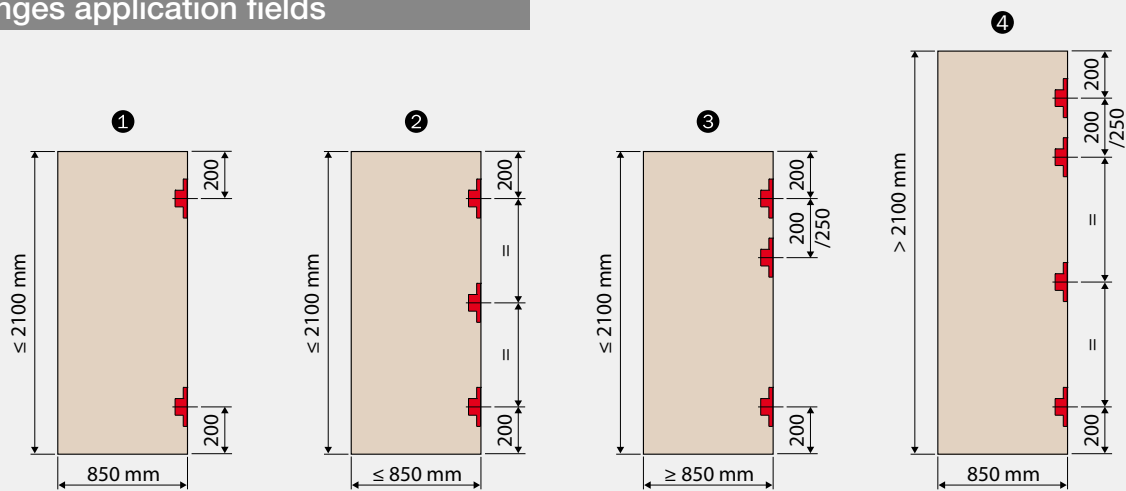
- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 23. Matt brass plated

- 34. Matt chromium plated
- 42. Light bronze plated
- 91. White
- 93. Matt black





Hinges application fields



- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

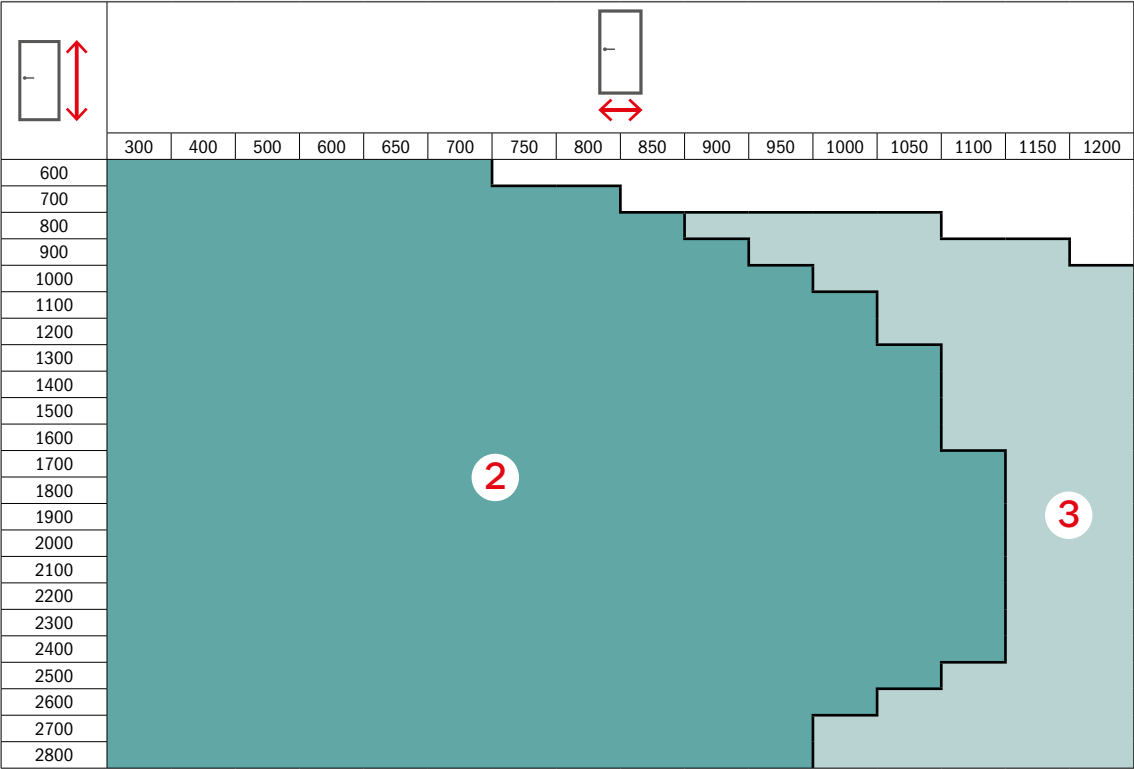
A: Overhead door closer (green rectangle at top)  
B: Door seals (blue wavy line at bottom)  
C: Floor-mounted door stop (orange square at bottom left)

Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.



# Eclipse 3.2

## Hinge for flush doors with or without rebate

Concealed hinge for flush door with or without rebate and for aluminium doors, thanks to the 4 mm fastening thickness of hinge.



Eclipse 3.2



Ideal even  
for aluminium  
frames.



Invisible thanks  
to reduced  
dimensions.



For wood and  
aluminium doors.

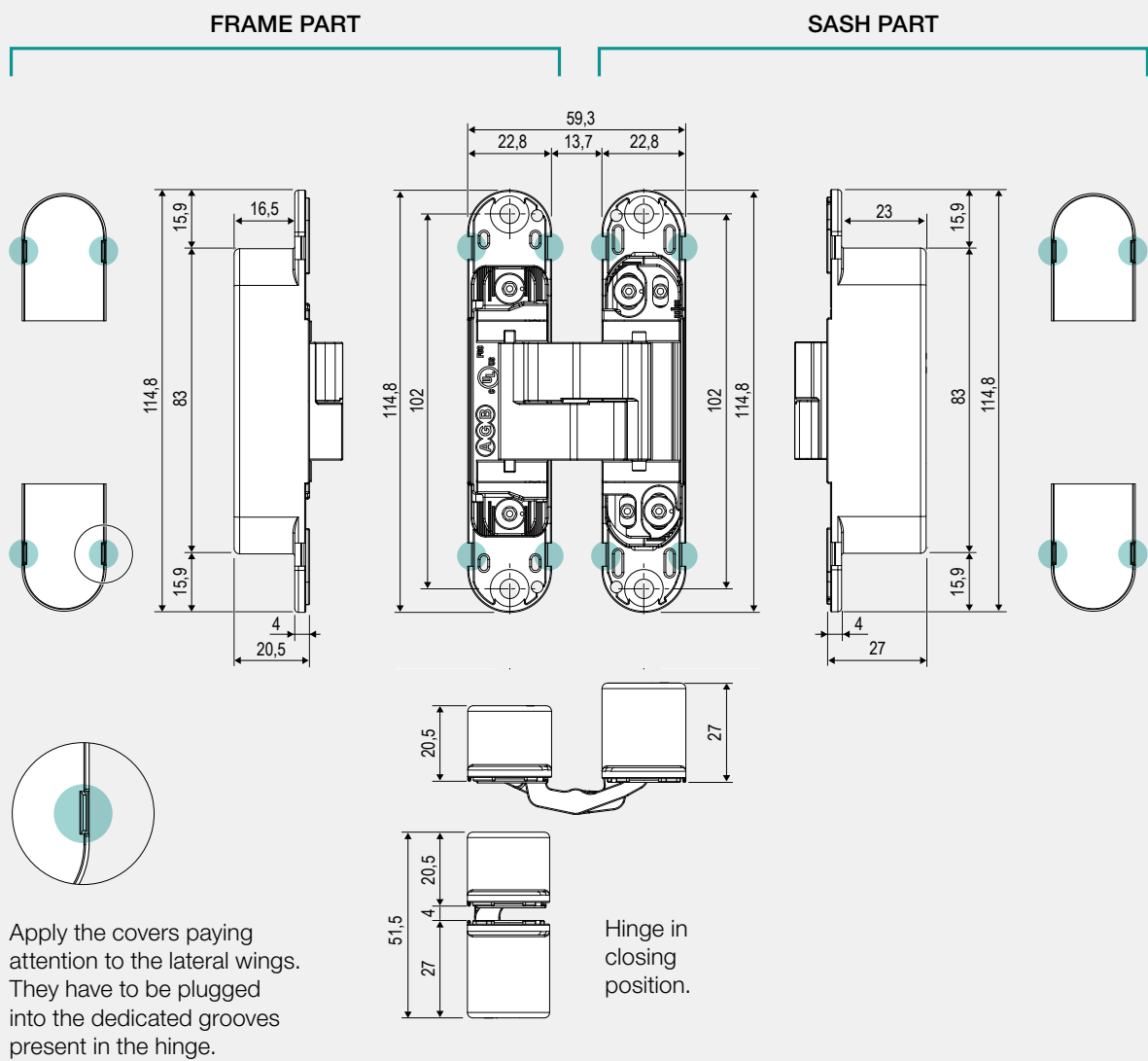


Three adjustments  
completely  
independent.

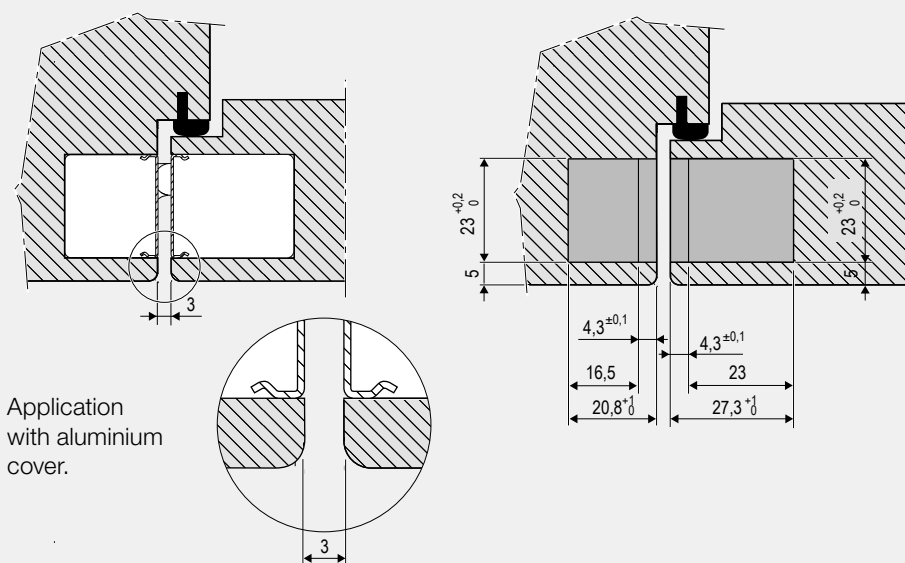


Metal or plastic  
flush covers.

Hinge dimensions

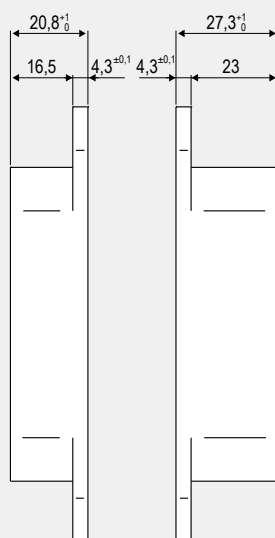
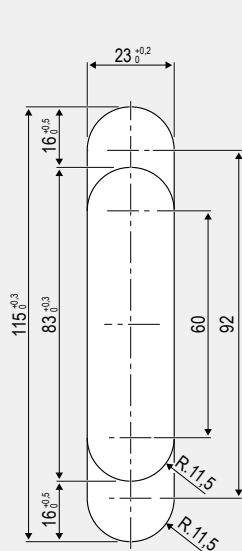


Hinge application

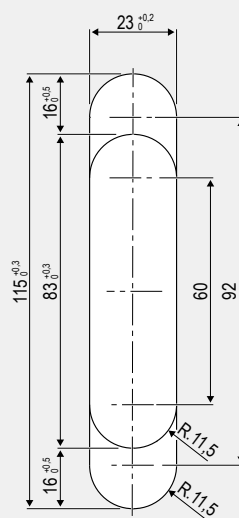


## Drilling diagram

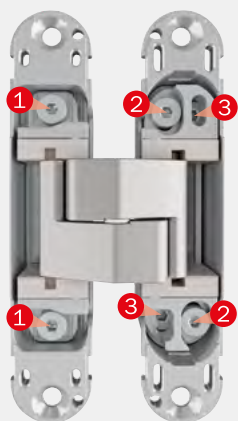
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

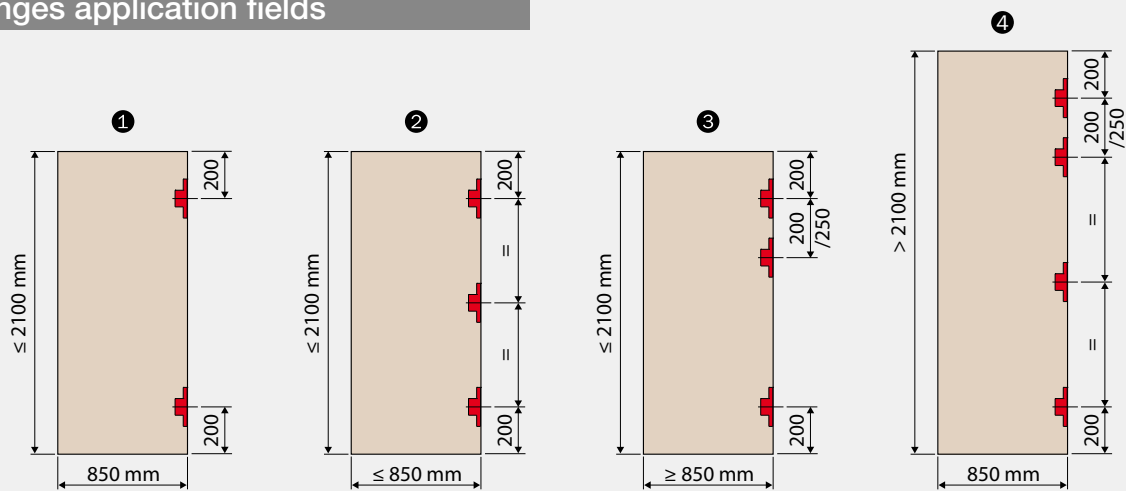
## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 13. Satin nickel plated
- 22. Enamelled bronze plated
- 23. Matt brass plated

- 34. Matt chromium plated
- 42. Light bronze plated
- 72. Matt antique brass plated
- 91. White
- 93. Matt black



Hinges application fields

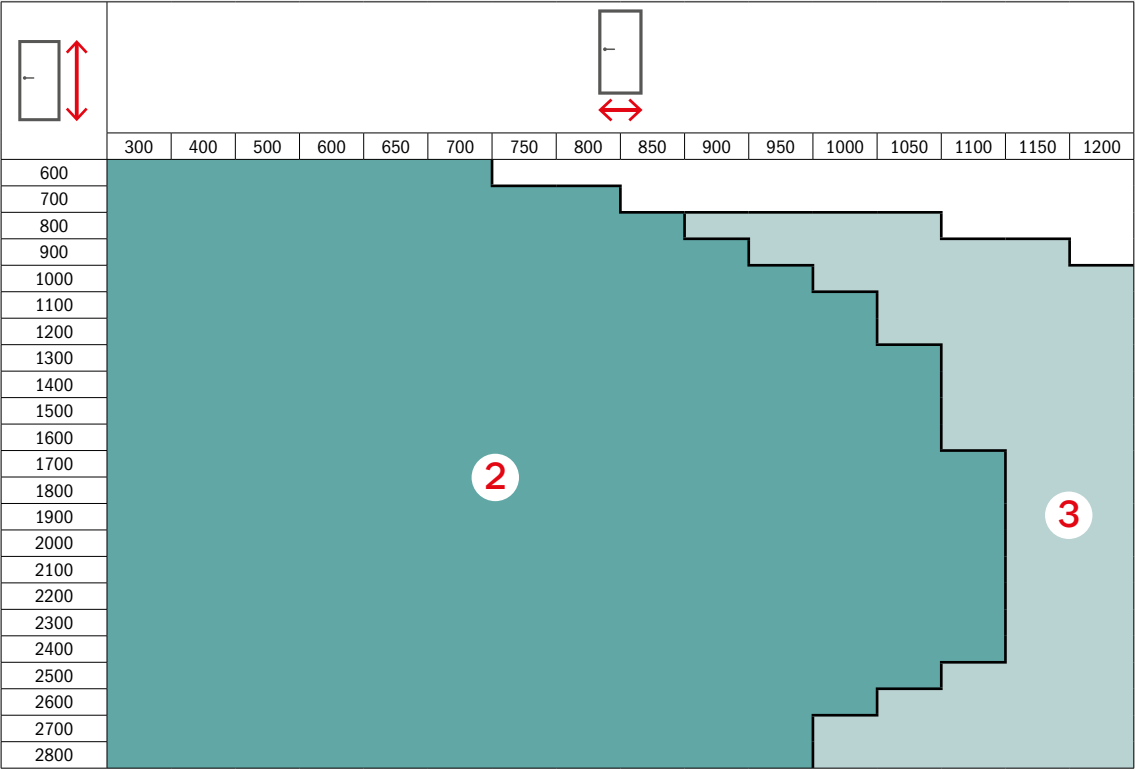


- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.

# Eclipse 3.3

## Hinge for flush doors with or without rebate and reduced frame

Eclipse 3.3 is the concealed hinge with a reduced milling depth up to 17,6 mm in order to have doors with minimal design. The hinge is particularly suitable for renovations.



Ideal even  
for aluminium  
frames.



Invisible thanks  
to reduced  
dimensions.



For wood and  
aluminium doors.

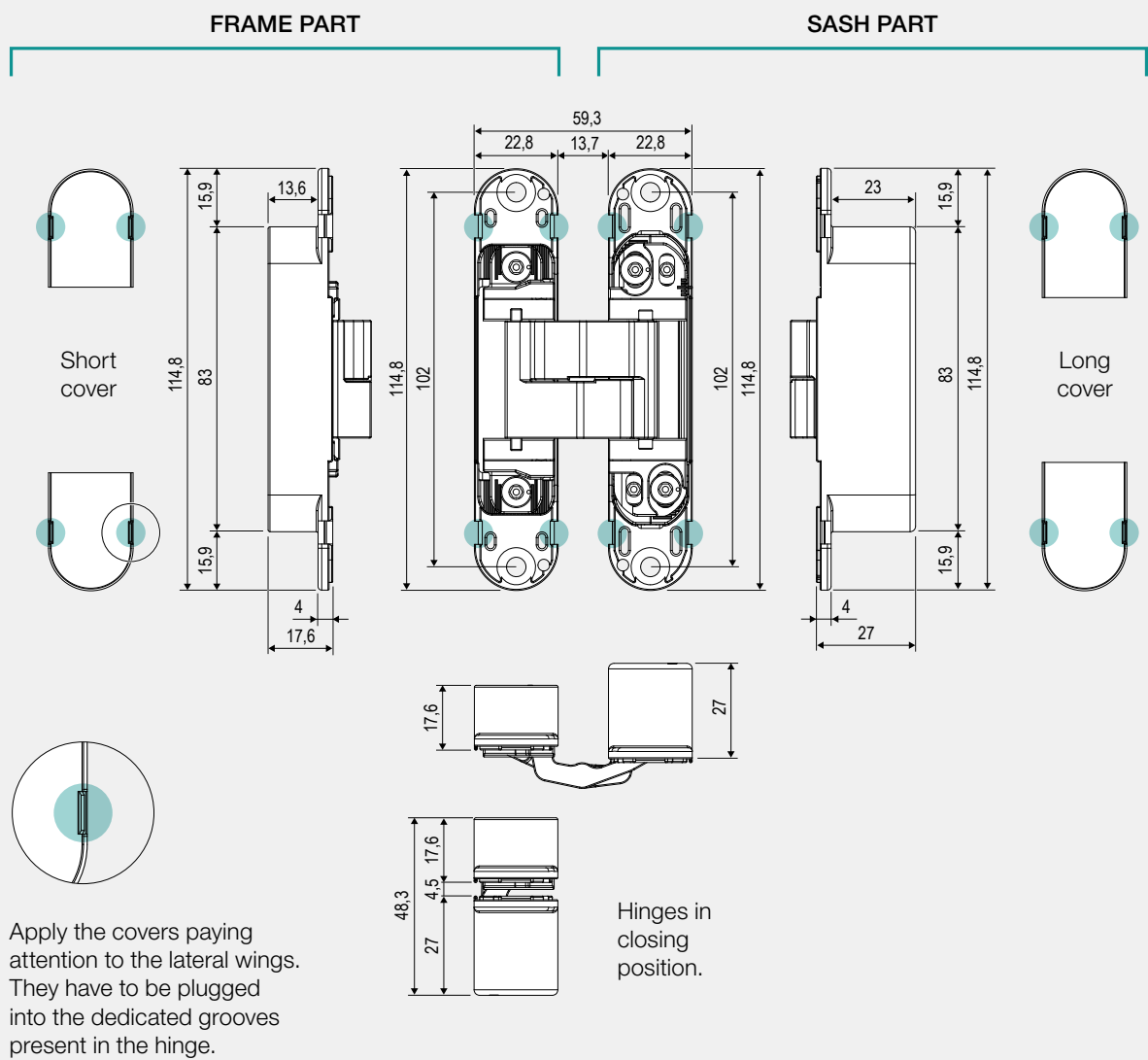


Three adjustments  
completely  
independent.

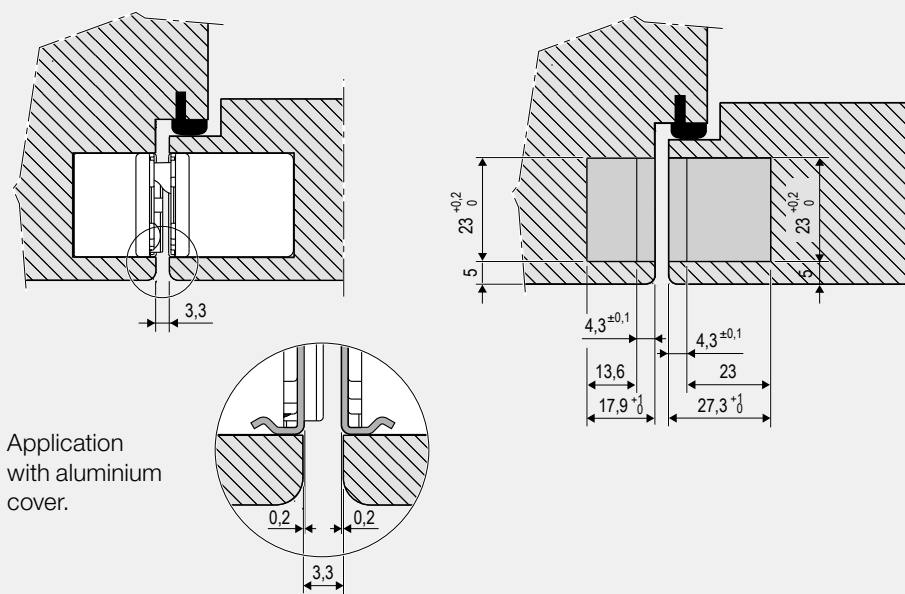


Flush  
covers.

Hinge dimensions



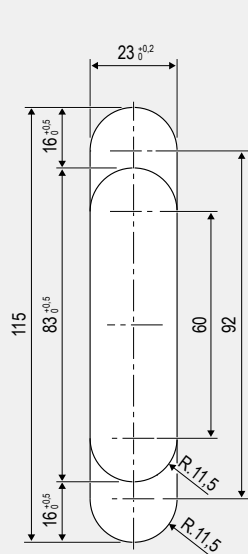
Hinge application



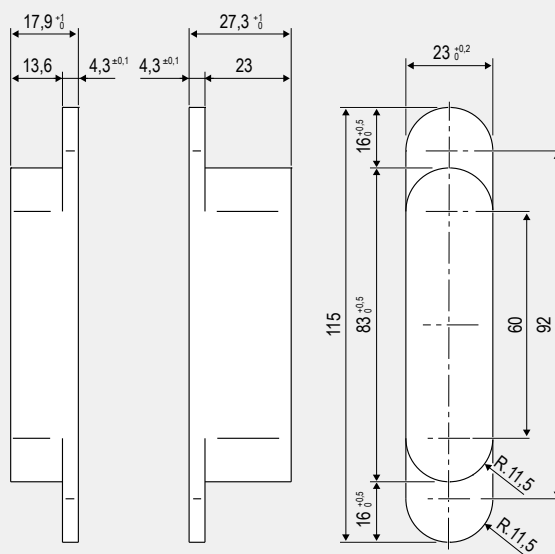


## Drilling diagram

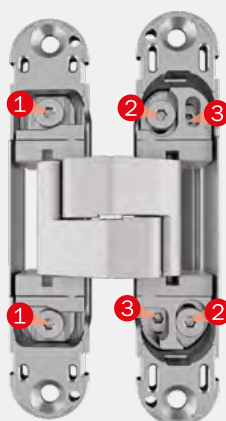
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

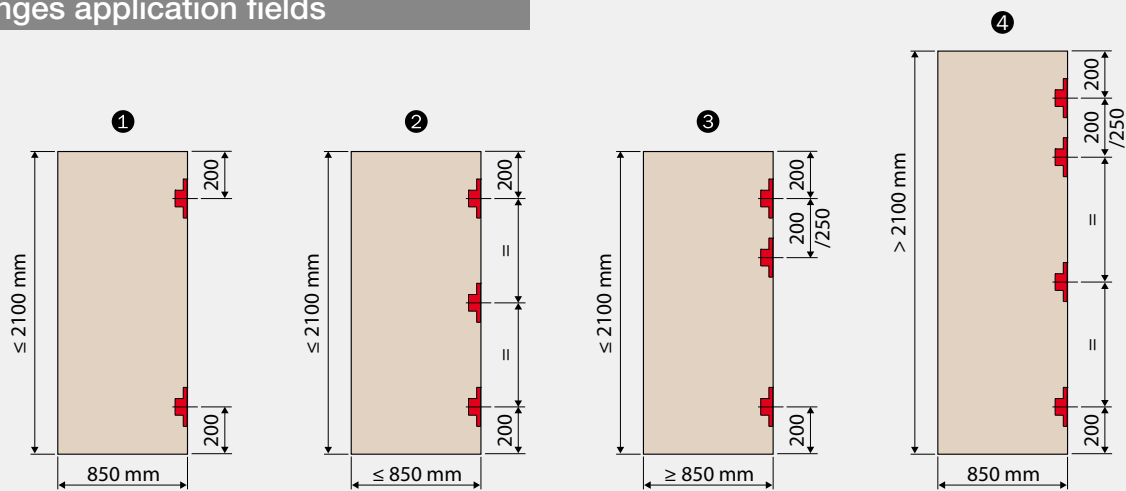
- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **+2/-1 mm horizontal adjustment:**  
move the screws ❸.

## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 34. Matt chromium plated
- 91. White
- 93. Matt black



Hinges application fields

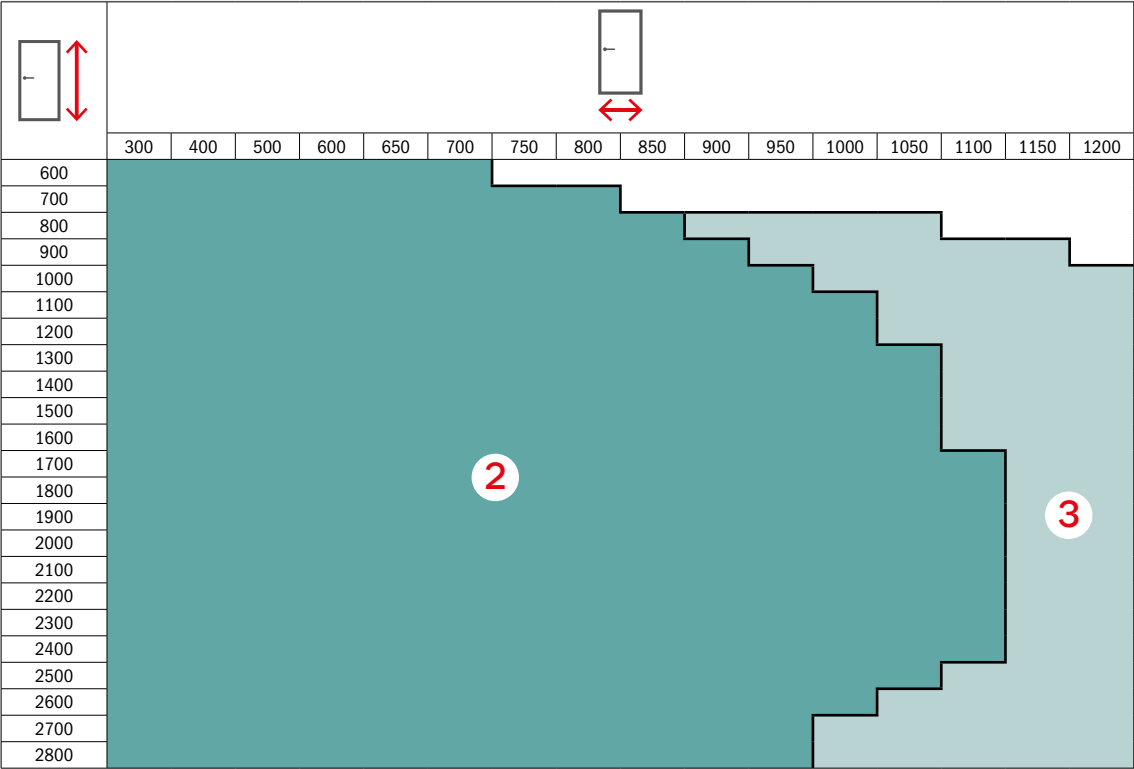


- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.



# Eclipse 3.1

## Hinge for flush doors with 38-40 mm thickness

Suitable for flush doors with 38-40 mm thickness, Eclipse 3.1 allows to keep the handle height unchanged, even turning the sash. Three adjustments completely independent using a unique 3 mm allen key.



Unchanged handle height  
even turning the sash  
on vertical axis.



With the same milling  
of the frame, it allows  
to realise flush doors.



For wood  
and aluminium  
doors.

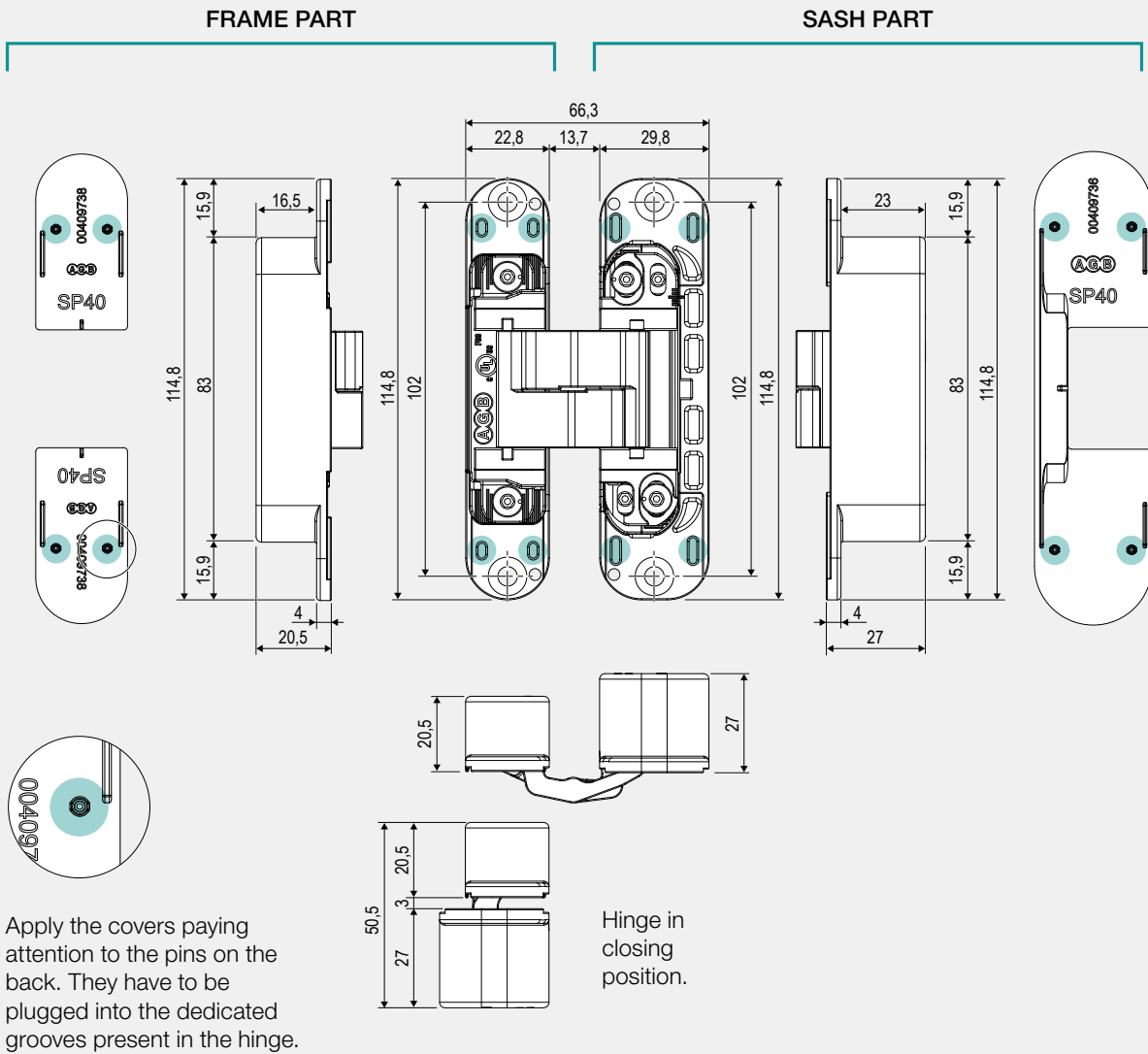


Three adjustments  
completely  
independent.

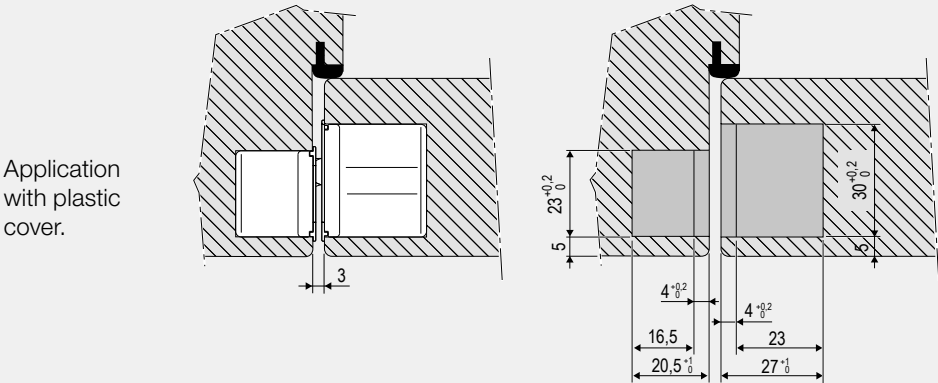


Flush covers  
with coverplate.

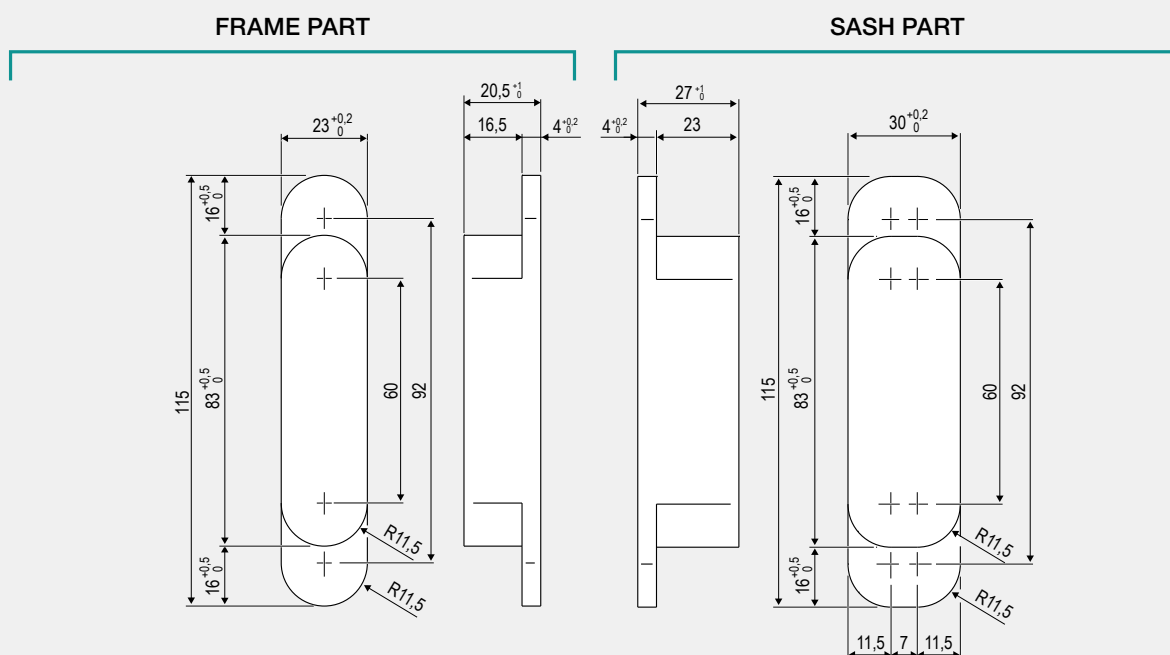
Hinge dimensions



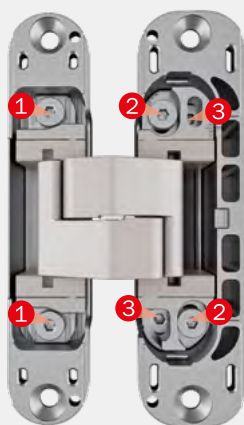
Hinge application



## Drilling diagram



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

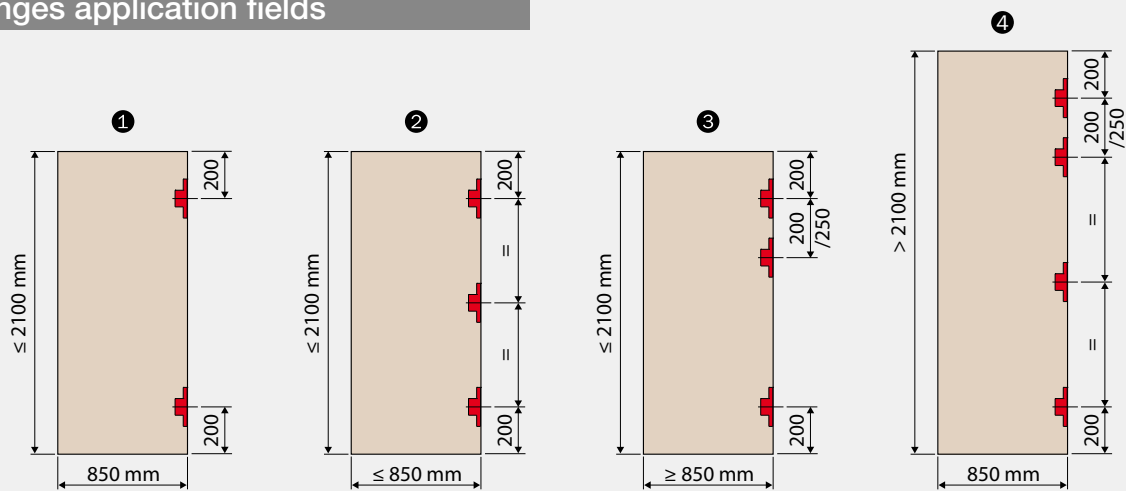
- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated



Hinges application fields

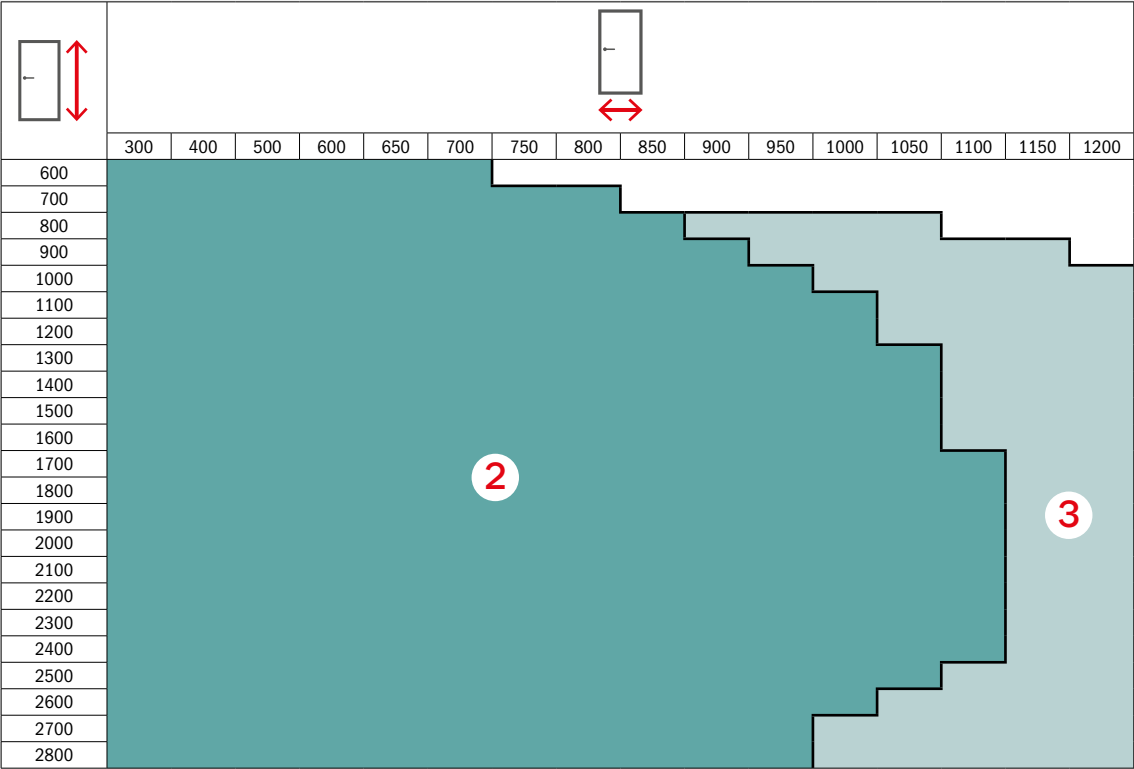


- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.



# Eclipse 3.41

## Hinge for flush doors with 38-40 mm thickness

Eclipse 3.41 is the minimal concealed hinge that allows to keep unchanged the handle height, even turning the sash. The frame cover is made in one piece, ensuring easier installation. Three adjustments completely independent with a unique allen key. Even suitable for aluminium frames, thanks to the 4 mm of hinge fastening.



Up to 40 kg with two hinges,  
60 kg with three hinges.



For wood  
and aluminium  
doors.

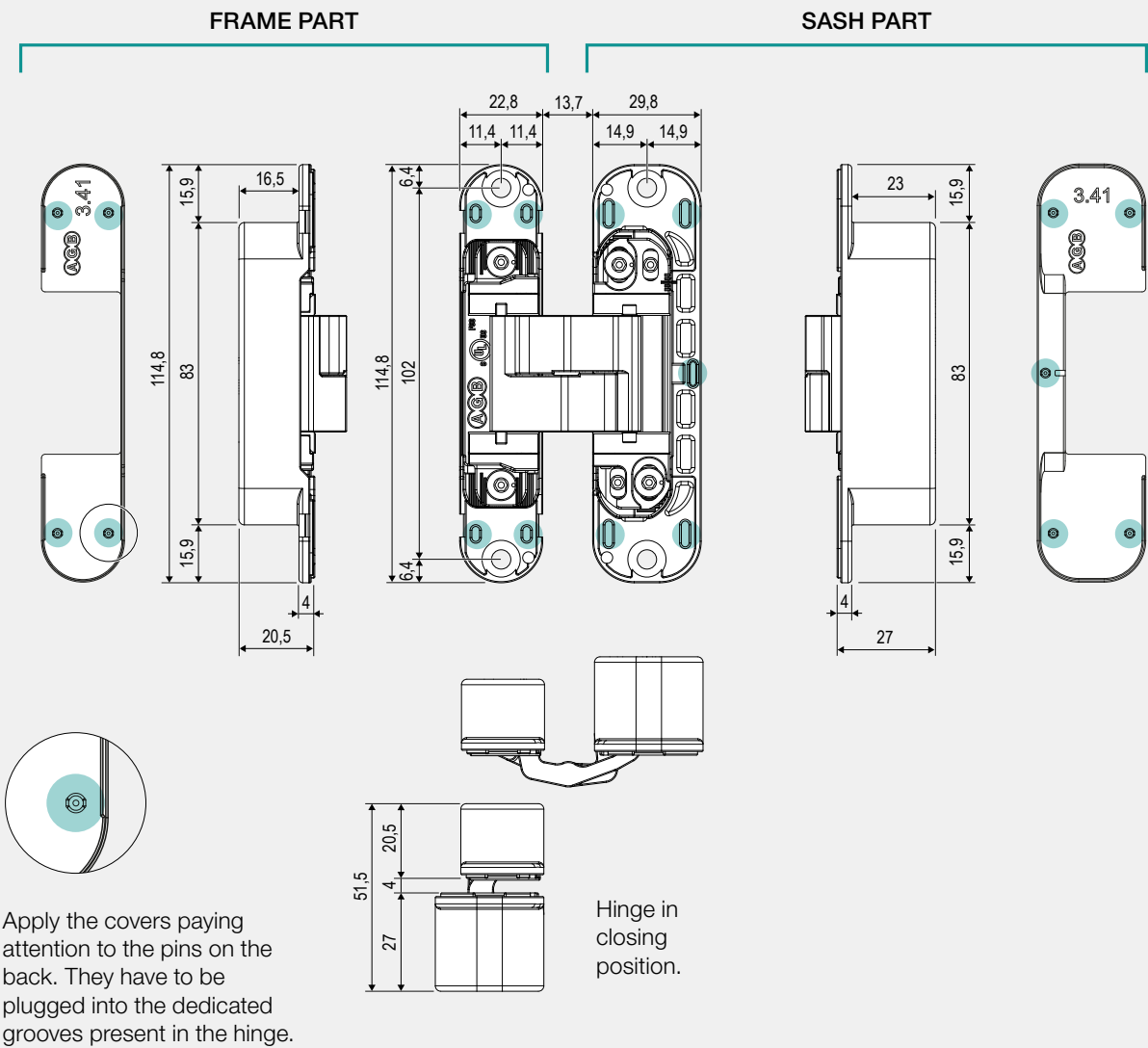


Three adjustments  
completely  
independent.

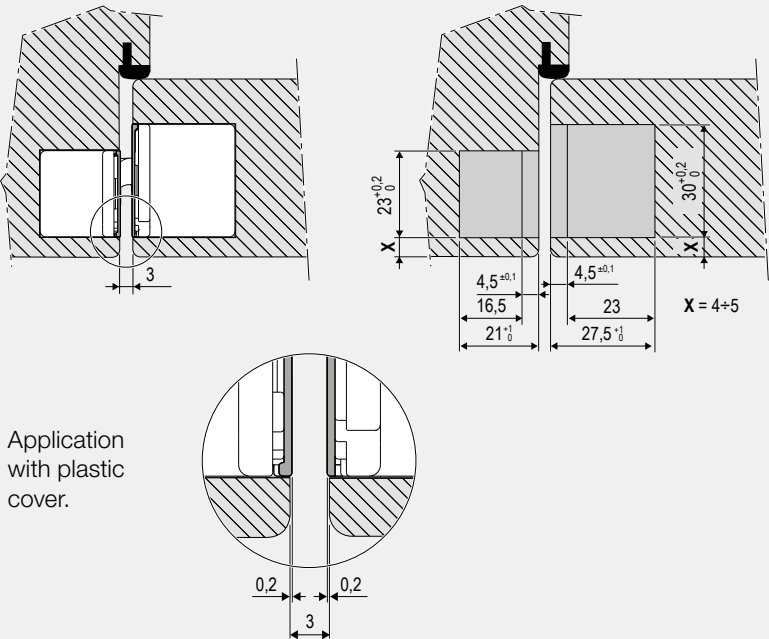


Flush  
covers.

# Hinge dimensions

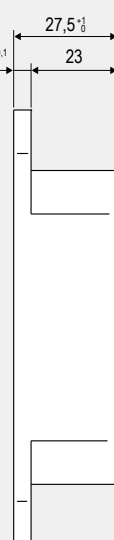
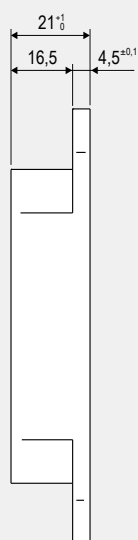
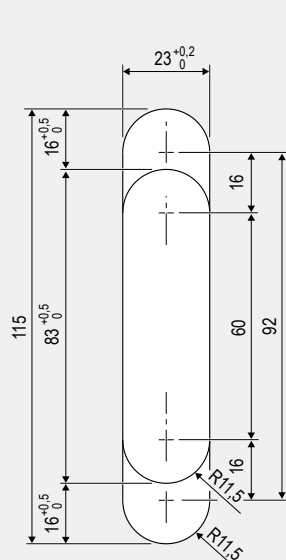


# Hinge application

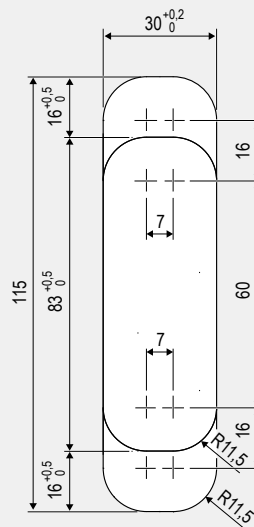


## Drilling diagram

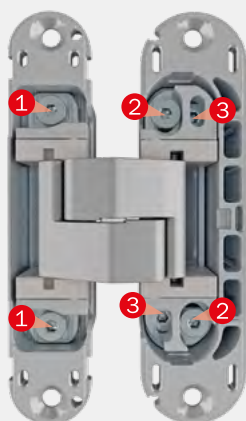
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

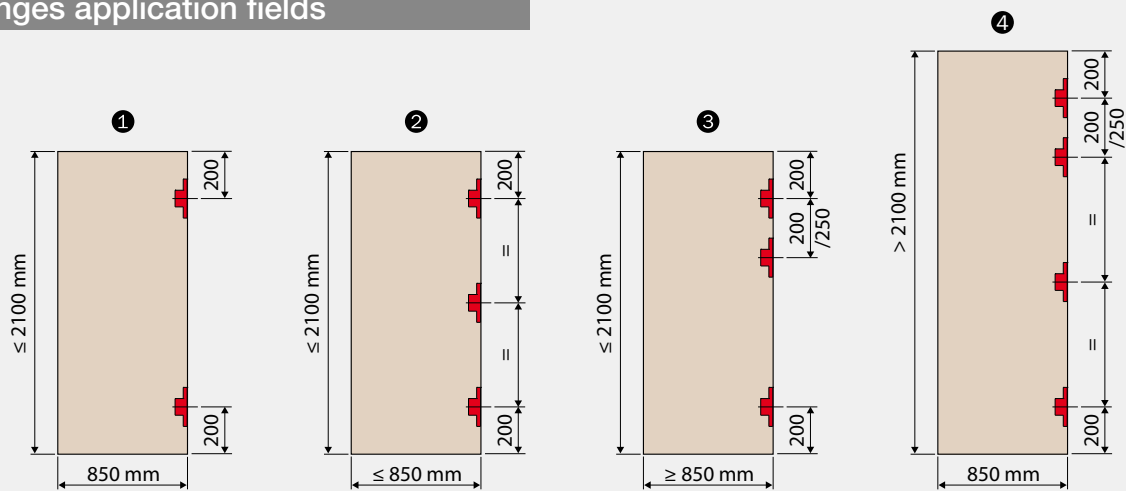
- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

## Finishes



34. Matt chromium plated

Hinges application fields

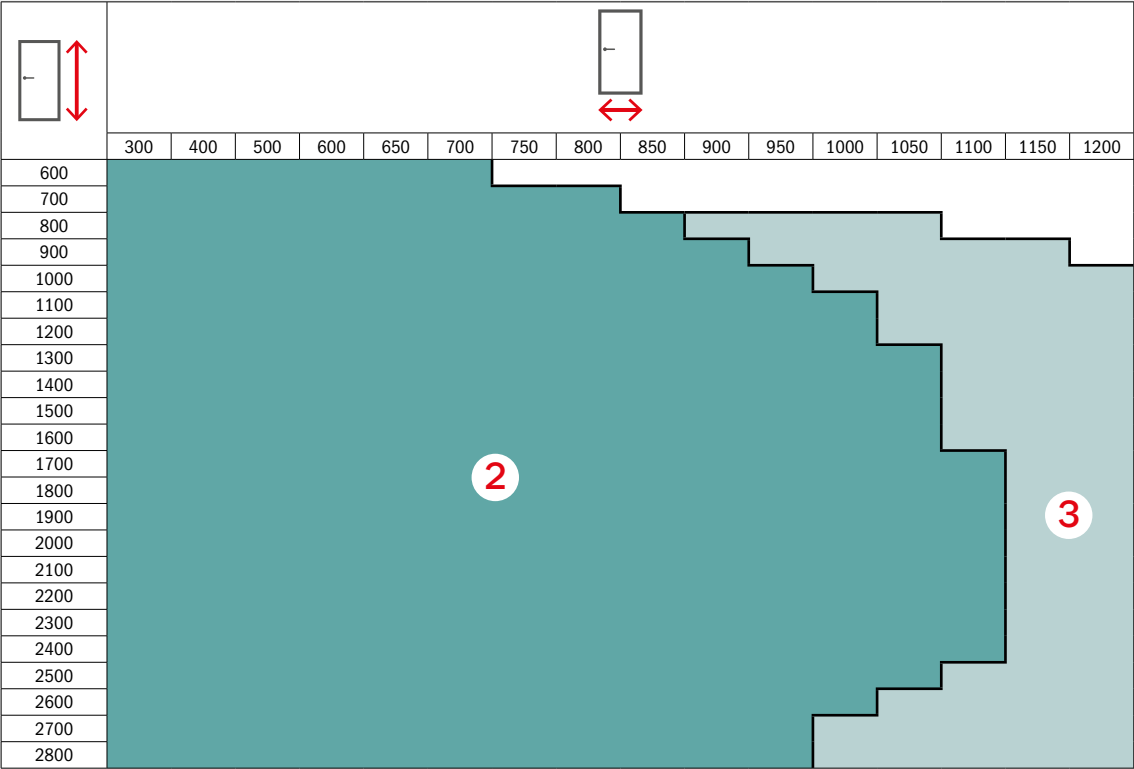


- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.



# Eclipse 3.4

## Hinge for flush doors with 38-40 mm thickness

Eclipse 3.4 is the minimal concealed hinge that allows to keep unchanged the handle height, even turning the sash. Three adjustments completely independent with a unique allen key. Even suitable for aluminium frames, thanks to the 4 mm of hinge fastening.



Unchanged handle height even turning the sash on vertical axis for 38-40 mm thickness.



With the same milling of the frame, it allows to realise flush doors.



For wood and aluminium doors.

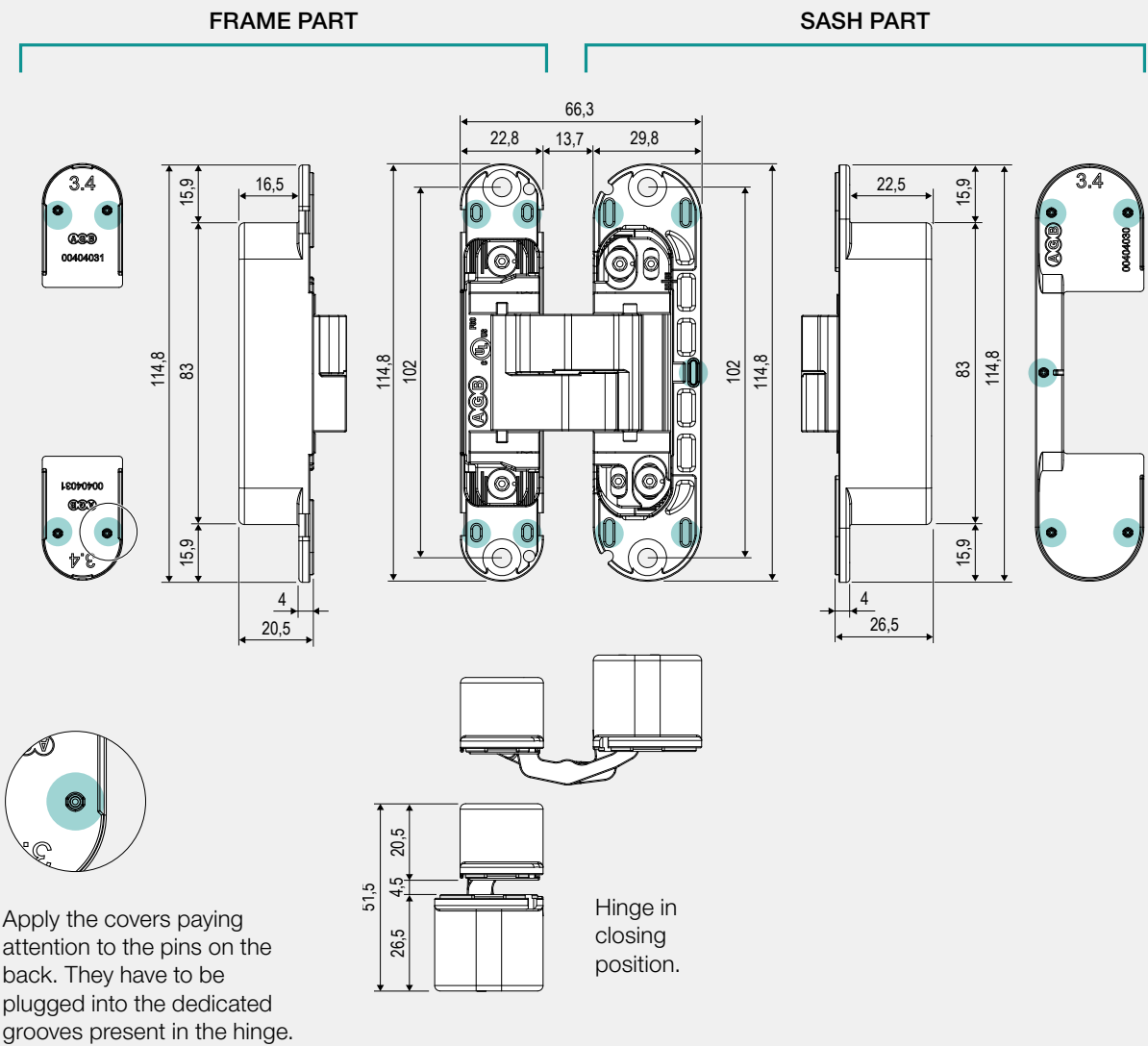


Three adjustments completely independent.

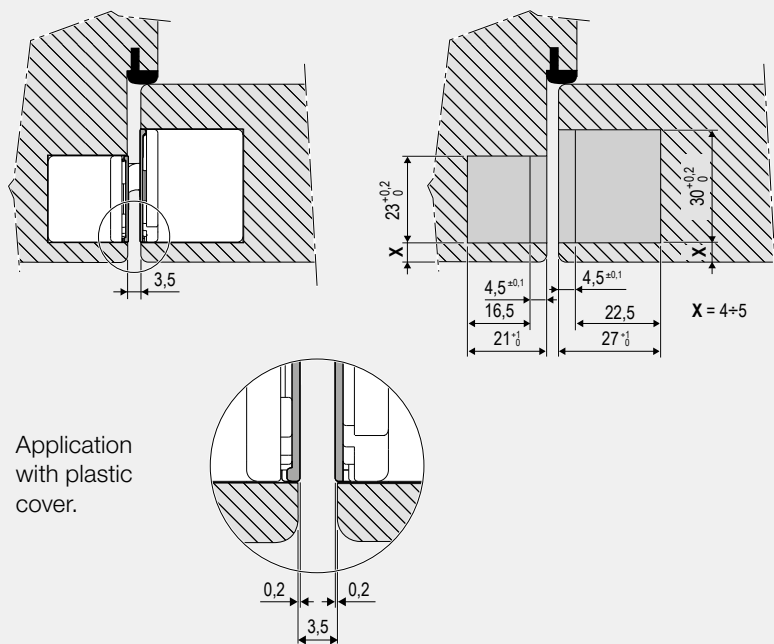


Flush covers.

### Hinge dimensions

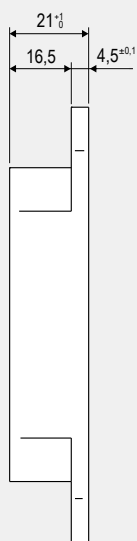
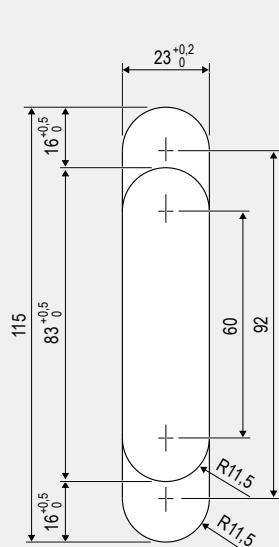


### Hinge application

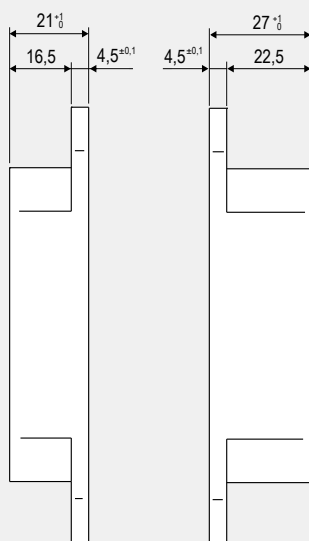
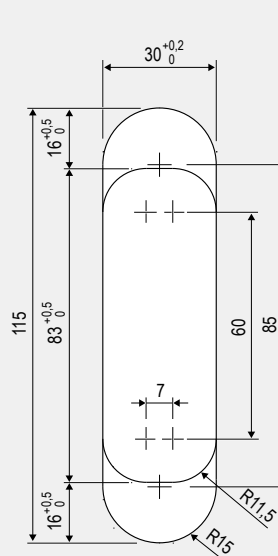


## Drilling diagram

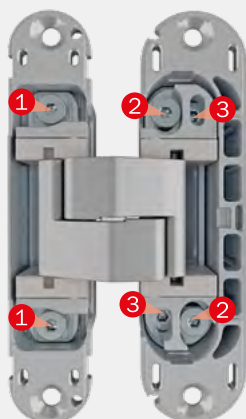
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ① and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ② using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ③.

## Finishes

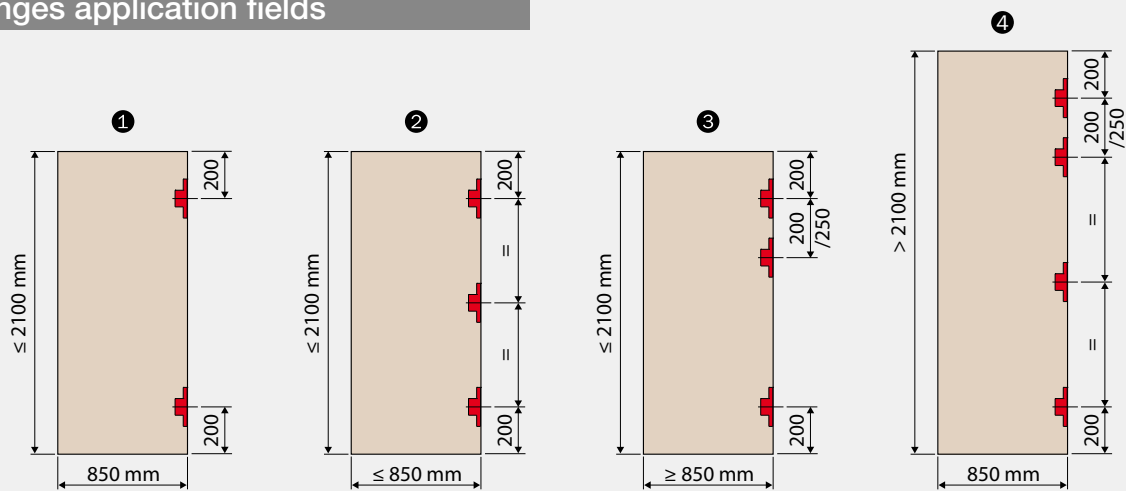
- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated



- 42. Light bronze plated
- 91. White
- 93. Matt black



Hinges application fields



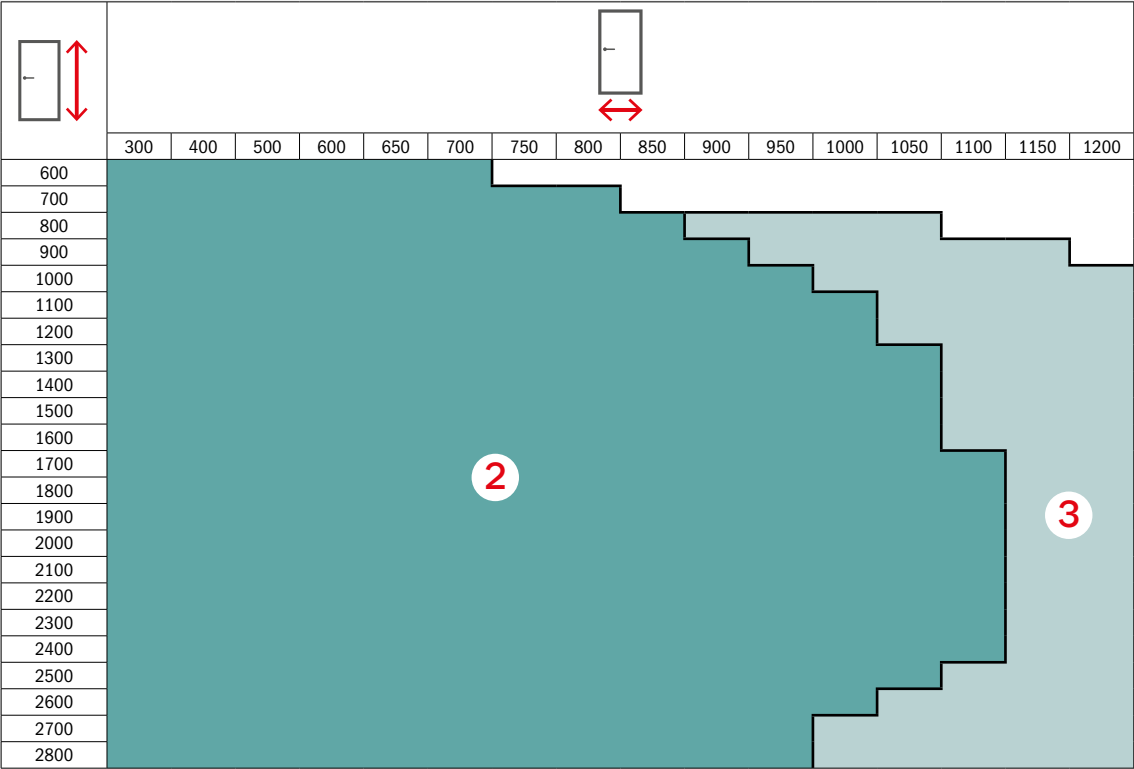
- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

≥75%

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.



# Eclipse 3.44

## Hinge for flush doors with 44 mm thickness

Suitable for flush doors with 44 mm thickness, Eclipse 3.44 allows to keep the handle height unchanged, even turning the sash. Three adjustments completely independent using a unique 3 mm allen key.



Unchanged handle height  
even turning the sash  
on vertical axis.



With the same milling  
of the frame, it allows  
to realise flush doors.



For wood  
and aluminium  
doors.

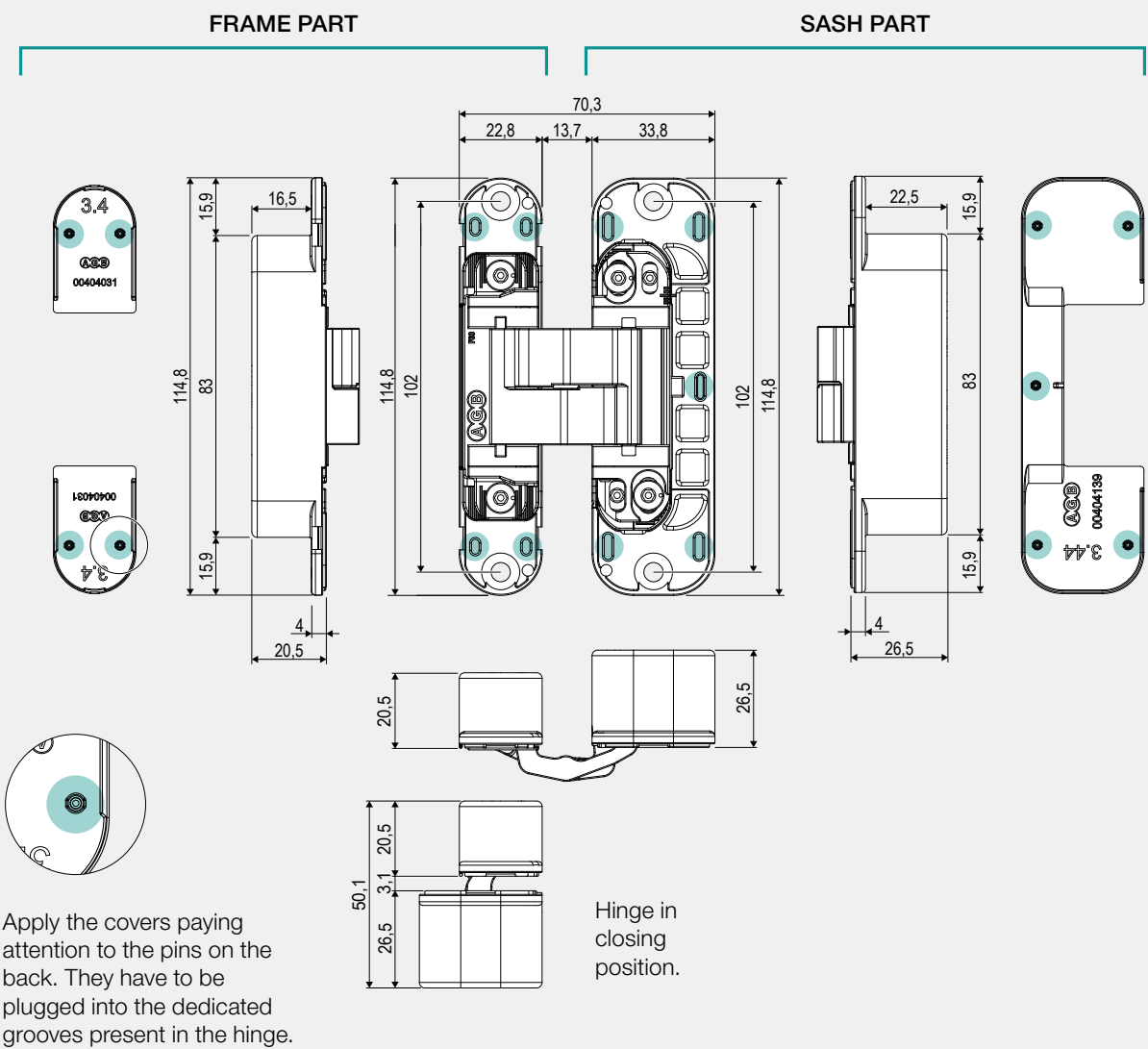


Three adjustments  
completely  
independent.

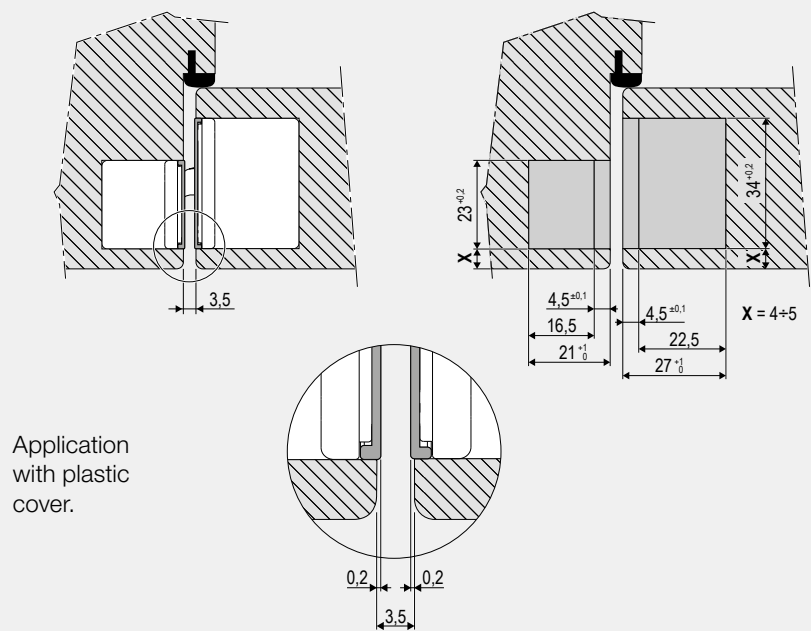


Flush covers  
with coverplate.

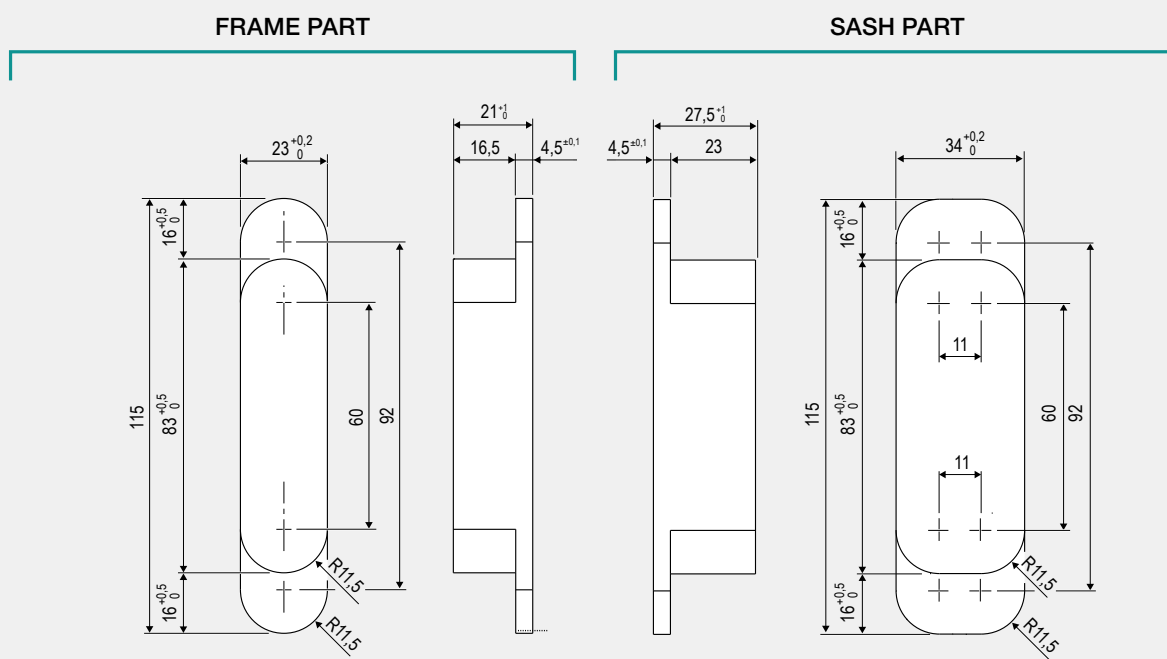
### Hinge dimensions



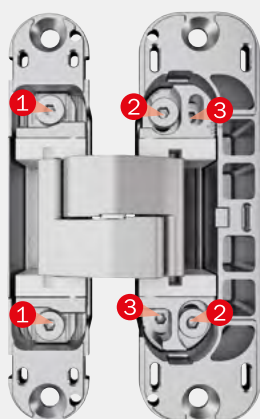
### Hinge application



## Drilling diagram



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ① and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ② using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ③.

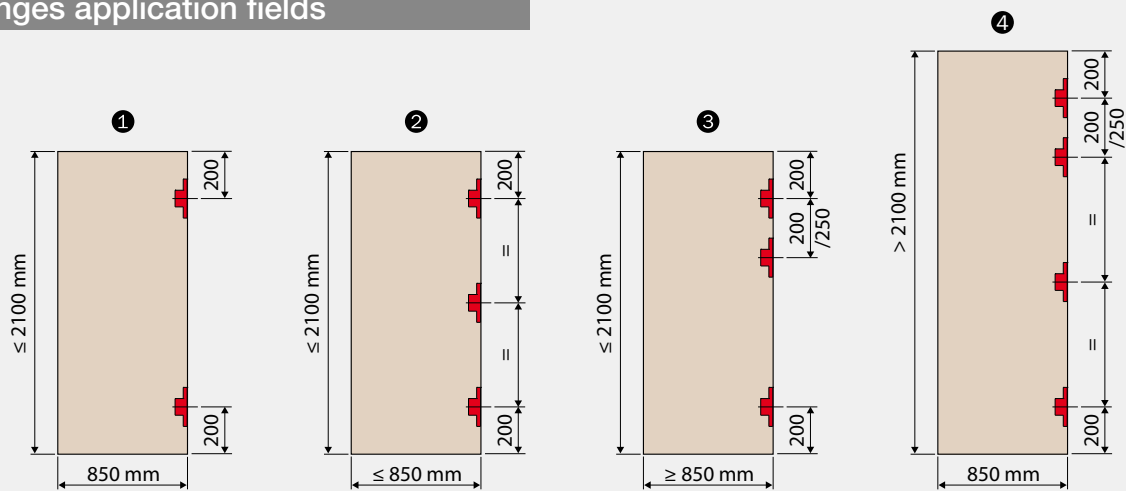
## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 34. Matt chromium plated



- 42. Light bronze plated
- 91. White
- 93. Matt black

Hinges application fields

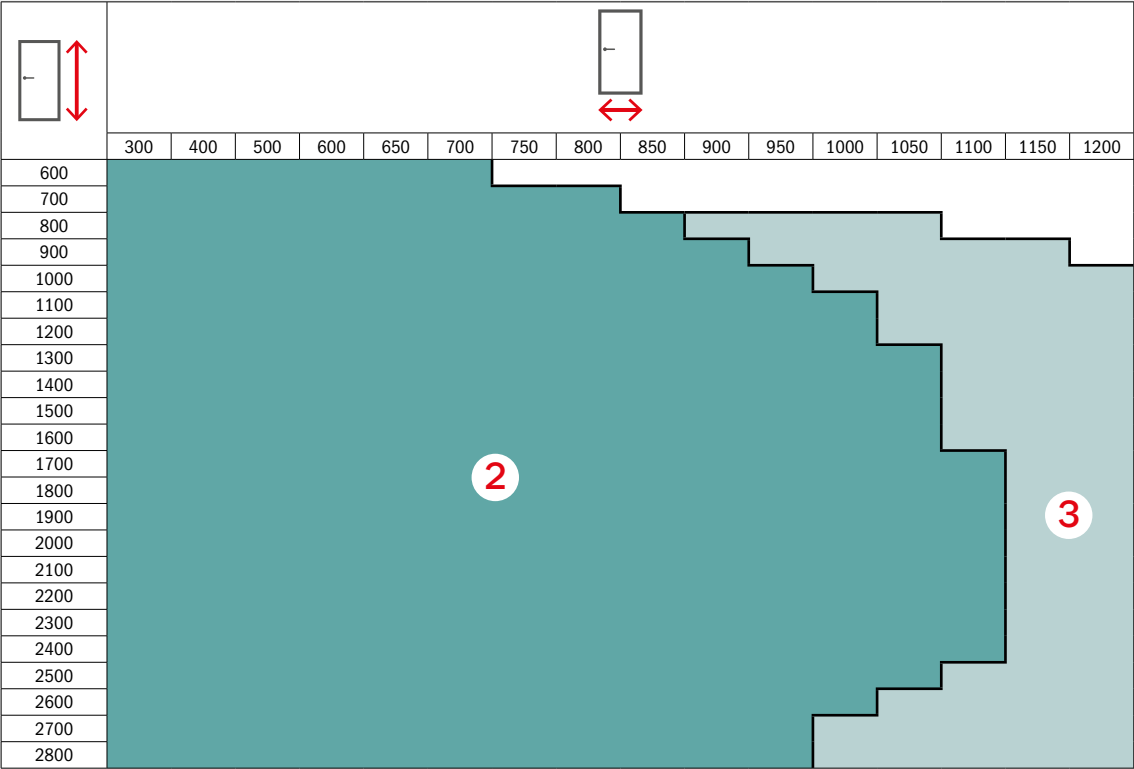


- 1 Two hinges capacity is 40 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 60 kg.
- 3 Three hinges capacity is 60 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 15 kg/m<sup>2</sup>.



# Certificates

## Eclipse 3.0

### Evidence of performance

Multi-axis hinges and window hinges  
according to EAD 020001-01-0405 : 2017

#### Test report

N° 16-001926-PR01

(PB-G02-03-en-03)



**Client**  
ALBAN GIACOMO spa  
Via De Gasperi 75  
36060 Romano D'Ezzellino VI  
Italy

**Product**  
Multi-axis concealed hinge

**Designation**  
ECLIPSE 3

**Performance-relevant product details**

Hinge height:	114.8 mm
Hinge material:	Aluminium
Opening angle:	180°
max. door leaf weight:	40 kg
Range of application:	unrebated doors

**Maintenance and installation**  
According to maintenance and installation instruction from hardware manufacturer.

**Special features**  
-/-

#### Basis

EAD 020001-01-0405 : 2017

Testing standards:

EAD 020001-01-0405 : 2017  
EN 1935 : 2002

Correspond/s to the national standard/s (e.g. DIN EN)

#### Representation



#### Instructions for use

This test report serves to demonstrate the specifications of hinges according to EAD 020001-01-0405 : 2017. This test report does **not** replace the EC Certificate of Conformity.

The conditions and requirements set out in EAD 020001-01-0405 : 2017 for identification and evaluation of conformity of construction products shall be observed.

#### Validity

The data and results given relate solely to the tested/described specimen. The classification will be valid as long as the product remains unchanged and the above bases have not changed. The result can be extrapolated in accordance with the specifications given in the product standard under the manufacturer's responsibility. This test/evaluation does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing.

#### Notes on publication

The ift-Guidance Sheet "Advertising with ift test documents" applies. The cover sheet can be used as an abstract.

The report contains a total of 11 pages.

#### Result

Classification according to EAD 020001-01-0405 : 2017

Category of use	Durability	Test door mass	Fire resistance	Safety	Corrosion resistance	Protection	Hinge grade
2	7	2	0	1	4	0	7

ift Rosenheim

28.03.2018

Translation dated 11.02.2022

signed  
Florian Luge  
Deputy Head of Testing Department  
Security/Safety Testing

signed  
Erwin Heimbuchner  
Operating Testing Officer  
Security/Safety Testing

This document is valid without a signature. The original document n°16-001926-PR01 (PB-G02-03-de-03) dated 28.03.2018 remains legally binding.



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 • 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref.	6026531
Your letter dated	
Our ref.	mue
Phone	+49 (8031) 261-2463
E-Mail	muders@ift-rosenheim.de
Nuremberg	16 12 2019

### Confirmation Letter for "Eclipse 3.0"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 544"; the exposed face was the opening face. Test duration was 60 minutes.  
The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 544" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR01 issued by ift Rosenheim.

The suitability of "Eclipse 3.0" (E302000234), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.0" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body

## Eclipse 3.2



60  
minutes

EN 1634



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 ♦ 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref.	6026531
Your letter dated	
Our ref.	mue
Phone	+49 (8031) 261-2463
E-Mail	muders@ift-rosenheim.de
Nuremberg	17 12 2019

### Confirmation Letter for "Eclipse 3.2"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 546"; the exposed face was the opening face. Test duration was 60 minutes.  
The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 546" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR03 issued by ift Rosenheim.

The suitability of "Eclipse 3.2" (E302000634), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.2" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body

## Eclipse 3.3



60  
minutes

EN 1634



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 ♦ 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref.	6026531
Your letter dated	
Our ref.	mue
Phone	+49 (8031) 261-2463
E-Mail	muders@ift-rosenheim.de
Nuremberg	17 12 2019

### Confirmation Letter for "Eclipse 3.3"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 546"; the exposed face was the opening face. Test duration was 60 minutes.  
The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 546" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR03 issued by ift Rosenheim.

The suitability of "Eclipse 3.3" (E302000734), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.3" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body

## Eclipse 3.1

### Evidence of performance

## Multi-axis hinges and window hinges according to EAD 020001-01-0405 : 2017

### Expert Statement

N° 16-001926-PR02 (GAS-G02-03-en-01)



Client **ALBAN GIACOMO spa**  
Via De Gasperi 75  
36060 Romano D'Ezzellino VI  
Italy

#### Basis

EAD 020001-01-0405 : 2017

Testing standards:

EAD 020001-01-0405 : 2017

EN 1935 : 2002

Correspond/s to the national  
standard/s (e.g. DIN EN)

Construction product	Multi-axis concealed hinge		
Type	ECLIPSE 3.1		
Product description	Hinge height:	115 mm	
	Hinge material:	Aluminium	
	Opening angle:	180°	
	max. door leaf weight:	40 kg	
Material			
Maintenance and installation	According to maintenance and installation instruction from hardware manufacturer.		

Test report n° 16-001926-PR01  
(PB-G02-03-de-03) dated  
28.03.2018

Design sheets in Annex 1

#### Validity

Validity of the comparative  
consideration expires with expiry  
of any one of the above items  
referred to as basis (standards or  
test reports).

### Result Classification according to EAD 020001-01-0405 : 2017

Category of use	Durability	Test door mass	Fire resistance	Safety	Corrosion resistance	Protection	Hinge grade
2	7	2	0	1	4	0	7

#### Notes on publication

The "Guidance Sheet for the Use  
of ift Test Documents" applies.

The cover sheet can be used as  
an abstract.

**ift Rosenheim**

26.06.2018

Translation dated 05.10.2021

signed  
Konrad Querengässer, Dipl.-Ing. (FH)  
Head of Testing Department  
Security/Safety Testing

signed  
Florian Luge  
Operating Testing Officer  
Security/Safety Testing

This document is valid without a signature. The original document n° 16-001926-PR02 (GAS-G02-03-de-01) dated 26.06.2018 remains legally binding.

#### Contents

The report contains a total of  
6 pages.

Cover sheet

Comparative consideration

1 Order

2 Basis

3 Evaluation

4 Results and statement

Annex 1 (4 pages)

## Eclipse 3.1



60  
minutes

EN 1634



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 ♦ 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref.	6026531
Your letter dated	
Our ref.	mue
Phone	+49 (8031) 261-2463
E-Mail	muders@ift-rosenheim.de
Nuremberg	17 12 2019

### Confirmation Letter for "Eclipse 3.1"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 546"; the exposed face was the opening face. Test duration was 60 minutes.  
The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 546" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR03 issued by ift Rosenheim.

The suitability of "Eclipse 3.1" (E302009334), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.1" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body

## Eclipse 3.4



60  
minutes

EN 1634



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 ♦ 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref. 6026531  
Your letter dated  
Our ref. mue  
Phone +49 (8031) 261-2463  
E-Mail muders@ift-rosenheim.de  
Nuremberg 17 12 2019

### Confirmation Letter for "Eclipse 3.4"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 546"; the exposed face was the opening face. Test duration was 60 minutes.  
The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 546" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR03 issued by ift Rosenheim.

The suitability of "Eclipse 3.4" (E302006034), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.4" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body



## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190930-R39790  
**Report Reference** R39790-20190917  
**Issue Date** 2019-SEPTEMBER-30

**Issued to:** AGB Alban Giacomo Spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino VI ITALY

**This certificate confirms that  
representative samples of** DOOR HINGES  
See Addendum Page

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL10C - STANDARD FOR POSITIVE PRESSURE FIRE  
TESTS OF DOOR ASSEMBLIES  
UL10B - STANDARD FOR FIRE TESTS OF DOOR  
ASSEMBLIES  
CAN/ULC-S104 - FIRE TESTS OF DOOR ASSEMBLIES

**Additional Information:** See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# Certificates

Eclipse 3.0, Eclipse 3.1, Eclipse 3.2, Eclipse 3.3, Eclipse 3.4



60  
minutes

## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190930-R39790  
**Report Reference** R39790-20190917  
**Issue Date** 2019-SEPTEMBER-30

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

### Models/Products:

USL, CNL Models Type Eclipse 3.0, Eclipse 3.1, Eclipse 3.2, Eclipse 3.2 HD, Eclipse 3.3, Eclipse 3.4, Eclipse 3.4 HD and Eclipse 3.5 for use on swinging type fire doors of types wood / composite type rated up to and including 1 hour with a minimum thickness of 70 mm, incorporating active bolts and studs, for doors (leaf) limited to 952 mm wide x 2421 mm high.

A handwritten signature in black ink.

Bruce Mahrenholz, Director North American Certification Program  
UL LLC

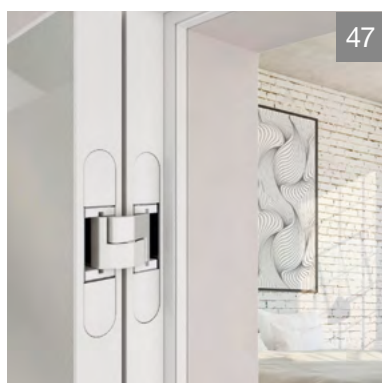
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



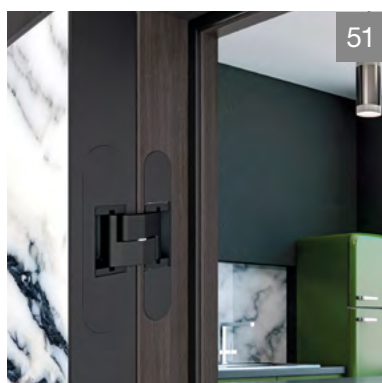


High loading  
capacity  
concealed  
hinges

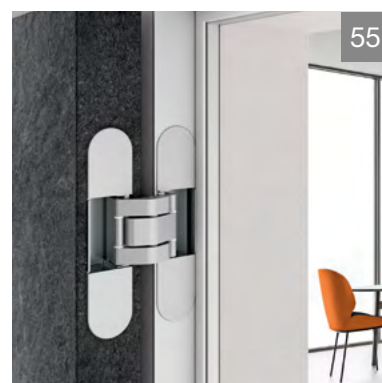
# High loading capacity concealed hinges



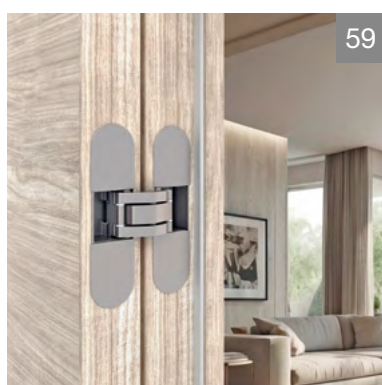
Eclipse 3.2 HD



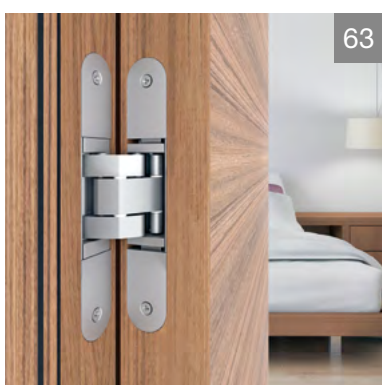
Eclipse 3.4 HD



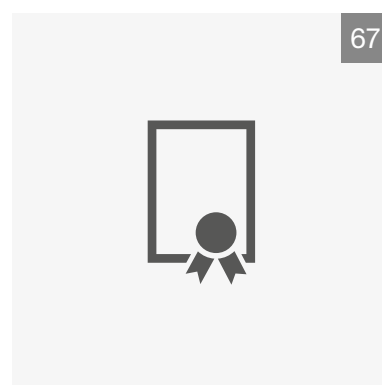
Eclipse 2.1



Eclipse 2.2



Eclipse 5.0



Certificates

Eclipse	TECHNICAL INFORMATION						APPLICATIONS			CERTIFICATES		
	capacity	adjustment	opening	max. extension	covers applications		flush doors with rebate	flush doors without rebate	aluminium flush doors	fire and smoke resistant doors	EAD 020001-01-0405 EN 1935	UL LISTED
3.2 HD	x3 = 80 kg	3	180°	14 mm	●		●	●	●	60 minutes		60 minutes
	x2 = 60 kg											
3.4 HD	x3 = 80 kg	3	180°	14 mm	●			●	●	60 minutes		60 minutes
	x2 = 60 kg											
2.1	x3 = 80 kg	3	180°	19 mm	●			●	●	60 minutes		
	x2 = 60 kg											
2.2	x3 = 80 kg	3	180°	19 mm		●		●				
	x2 = 60 kg											
5.0	x3 = 130 kg	3	180°	18 mm	●			●		60 minutes		
	x2 = 100 kg											



# Eclipse 3.2 HD

## High capacity hinges for internal flush doors

Concealed hinge with steel levers for heavy sashes. Suitable for applications with overhead door closer and door stop to the ground. Eclipse 3.2 HD has been designed for flush doors with or without rebate and for aluminium doors, thanks to the 4 mm fastening thickness of hinge. Eclipse 3.2 HD is provided with flush covers and it is available in a wide range of finishes.



Steel levers,  
ideal for heavy  
doors.



Up to 60 kg  
with two hinges,  
80 kg with three  
hinges.



For wood  
and aluminium  
doors.

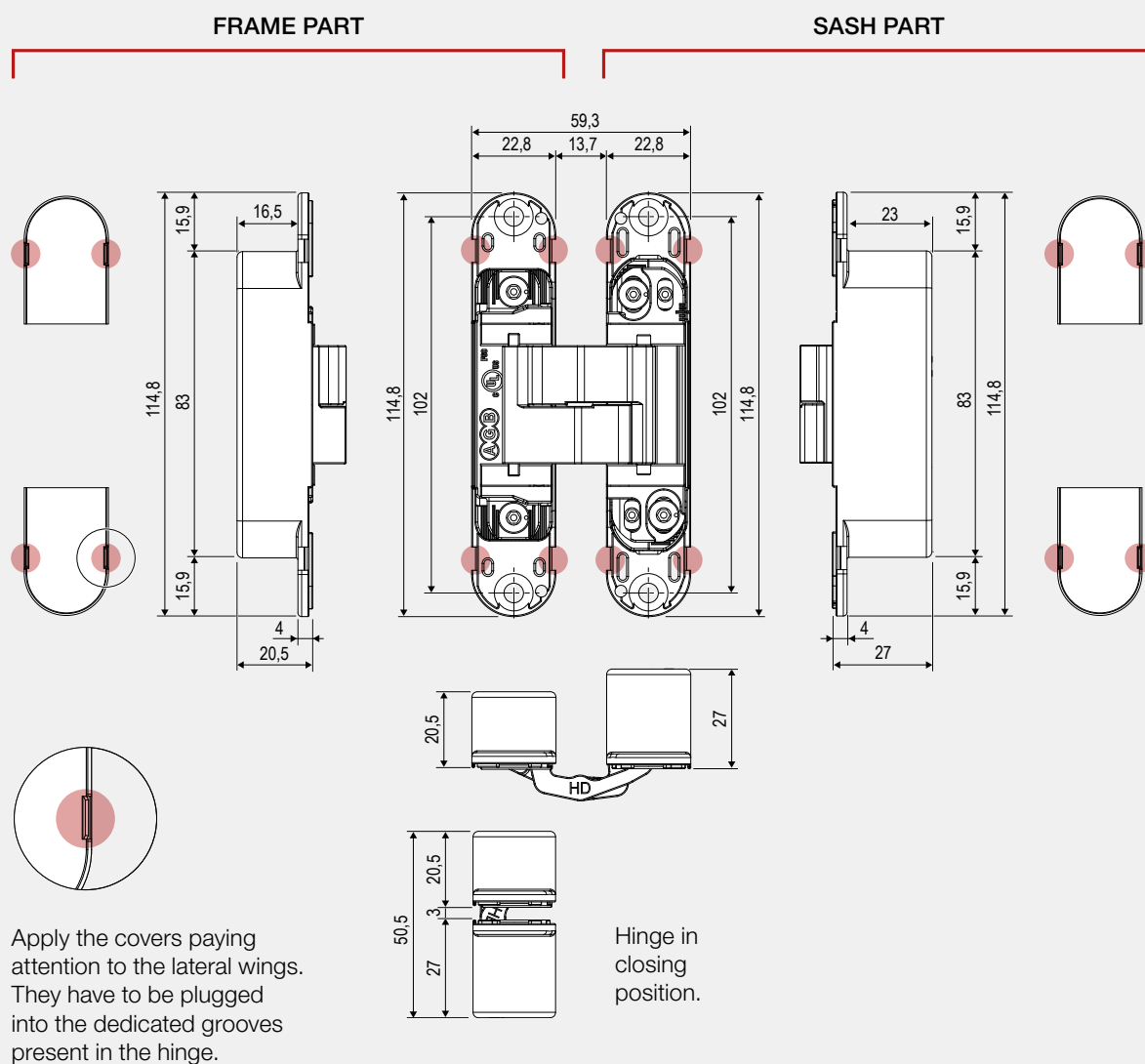


Three adjustments  
completely  
independent.

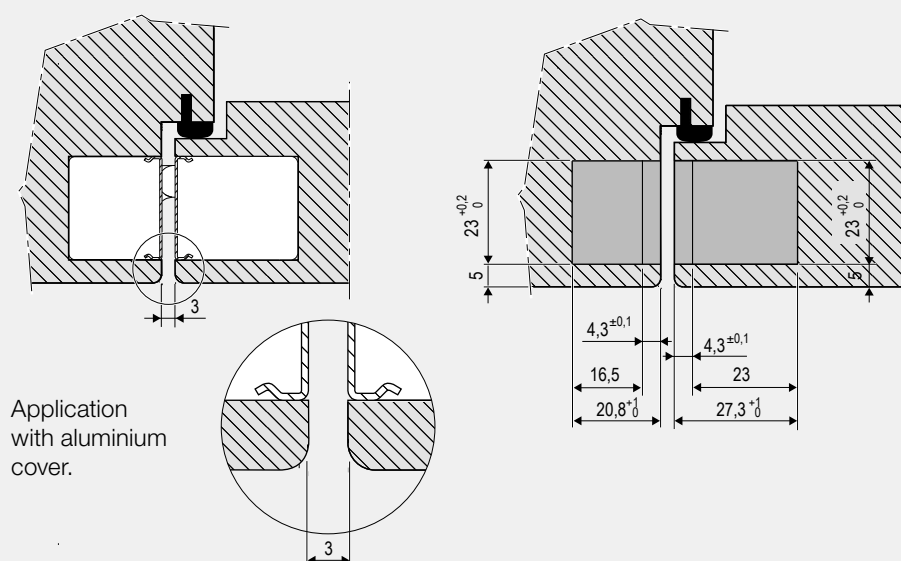


Flush  
covers.

## Hinge dimensions



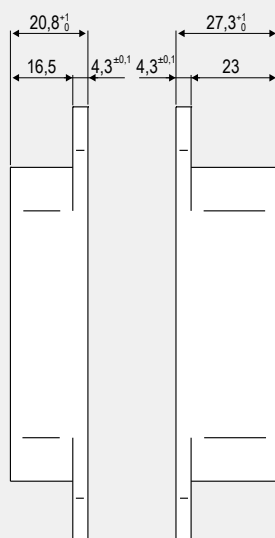
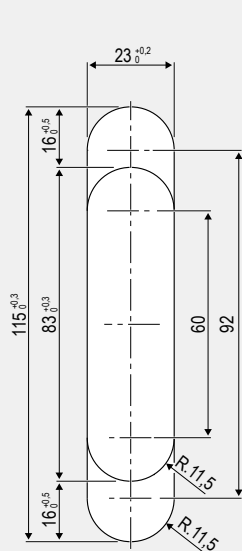
## Hinge application



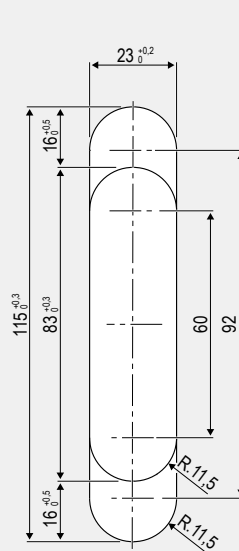


## Drilling diagram

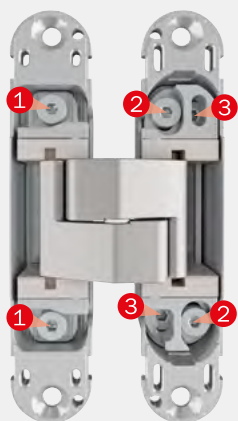
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

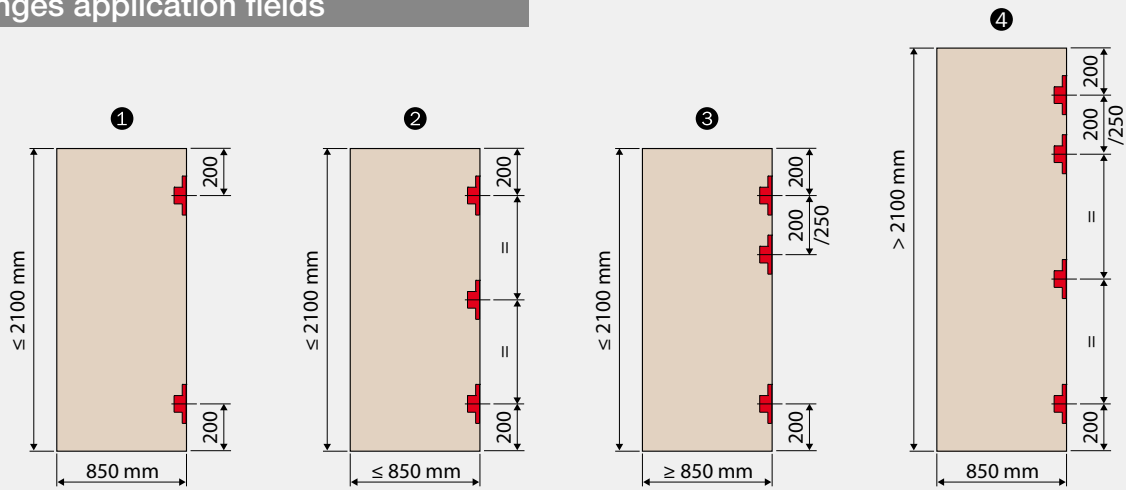
## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 23. Matt brass plated

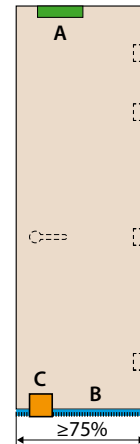


- 34. Matt chromium plated
- 42. Light bronze plated
- 91. White
- 93. Matt black

## Hinges application fields



- ① Two hinges capacity is 60 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- ② Three hinges capacity is 80 kg.
- ③ Three hinges capacity is 80 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- ④ The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).



### THIRD-PARTY ACCESSORIES



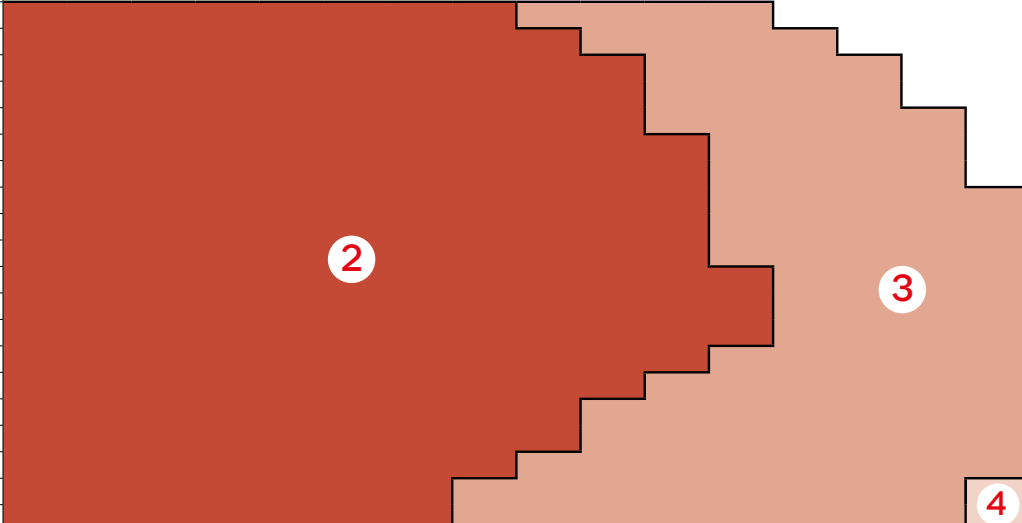
**Overhead door closer (A)**

**Door seals (B)**

**Floor-mounted door stop (C)**

Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

## Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*

																
	300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
600																
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\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 25 kg/m<sup>2</sup>.

# Eclipse 3.4 HD

## High loading capacity hinges for internal flush doors with 38-40 mm thickness

Concealed hinge with steel levers for heavy sashes. Suitable for applications with overhead door closer and door stop to the ground. Eclipse 3.4 HD is the ideal solution for applications on flush doors with 38-40 mm thickness, where the handle height must be unchanged.

Three adjustments completely independent with a unique allen key.

Eclipse 3.4 HD is provided with flush covers and it is available in a wide range of finishes. Even suitable for aluminium frames, thanks to the 4 mm of hinge fastening.



Steel levers,  
ideal for heavy  
doors.



Up to 60 kg with two  
hinges, 80 kg with  
three hinges.



Unchanged handle height  
even turning the sash on  
vertical axis.



For wood  
and aluminium  
doors.

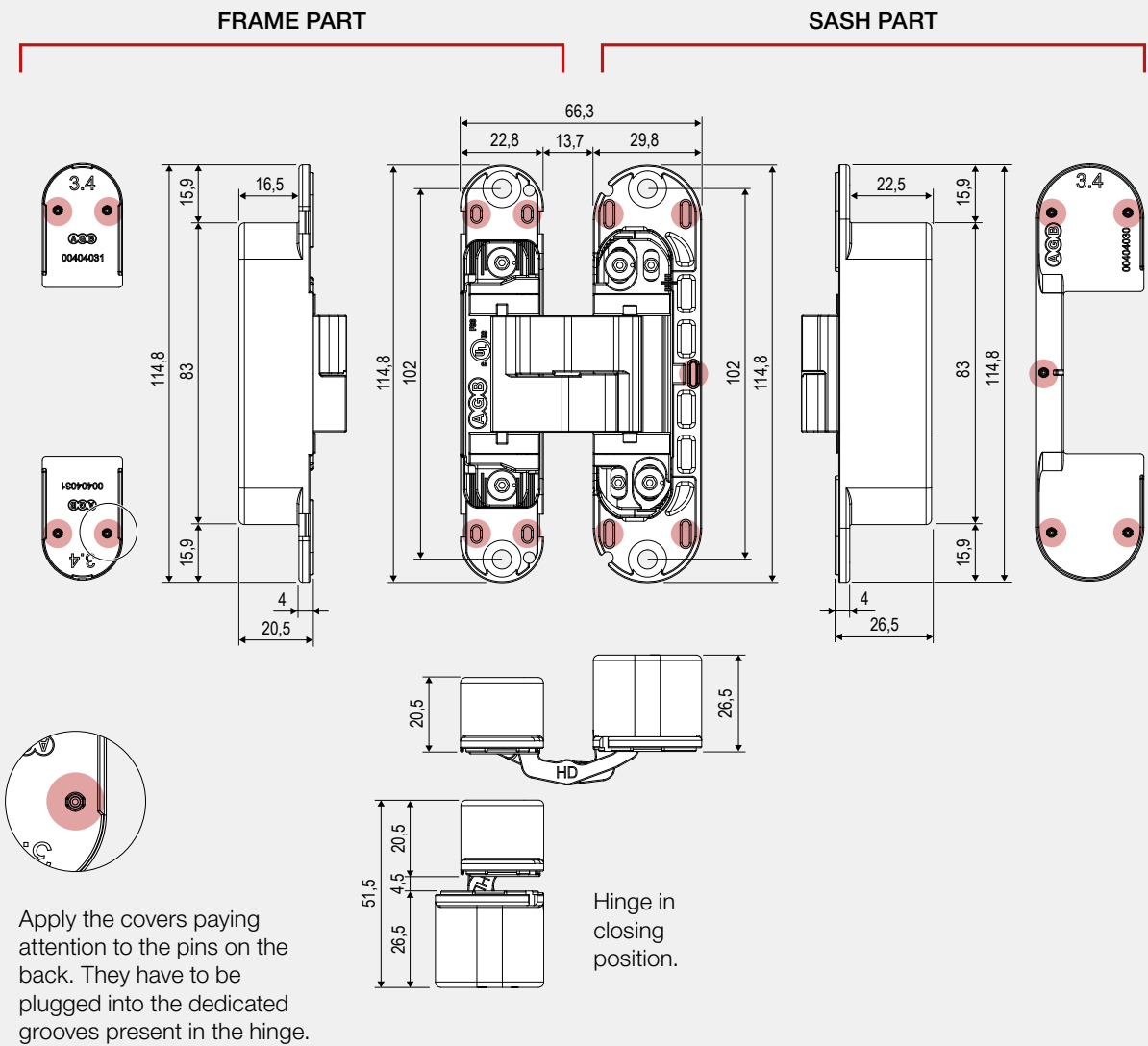


Three adjustments  
completely  
independent.

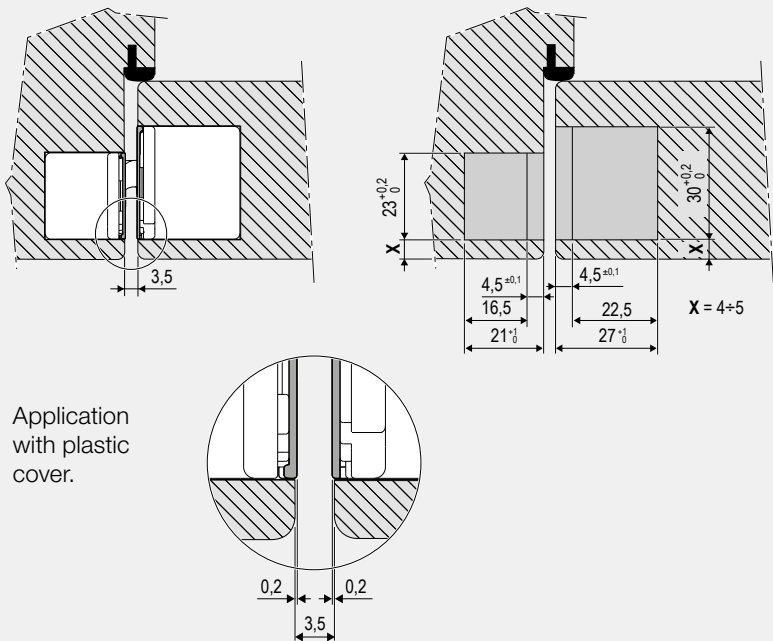


Flush  
covers.

# Hinge dimensions

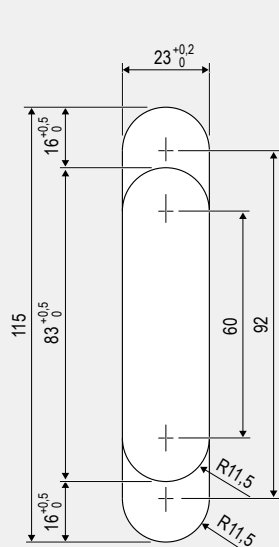


# Hinge application

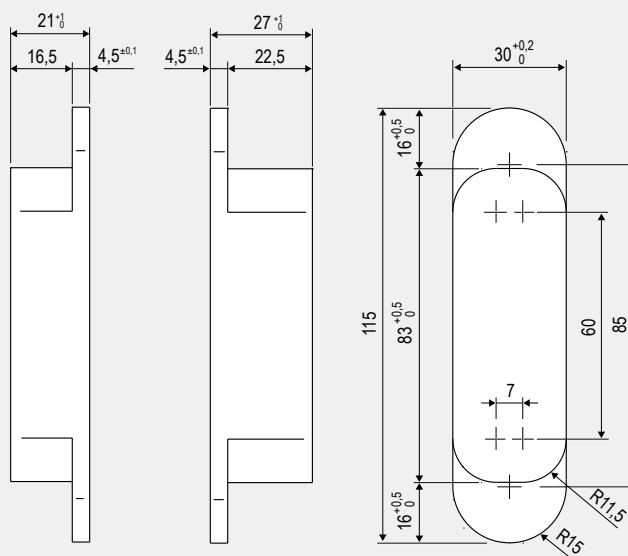


## Drilling diagram

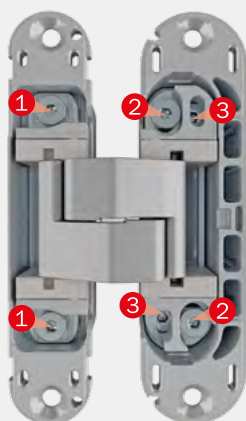
### FRAME PART



### SASH PART



## Hinge adjustments



Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

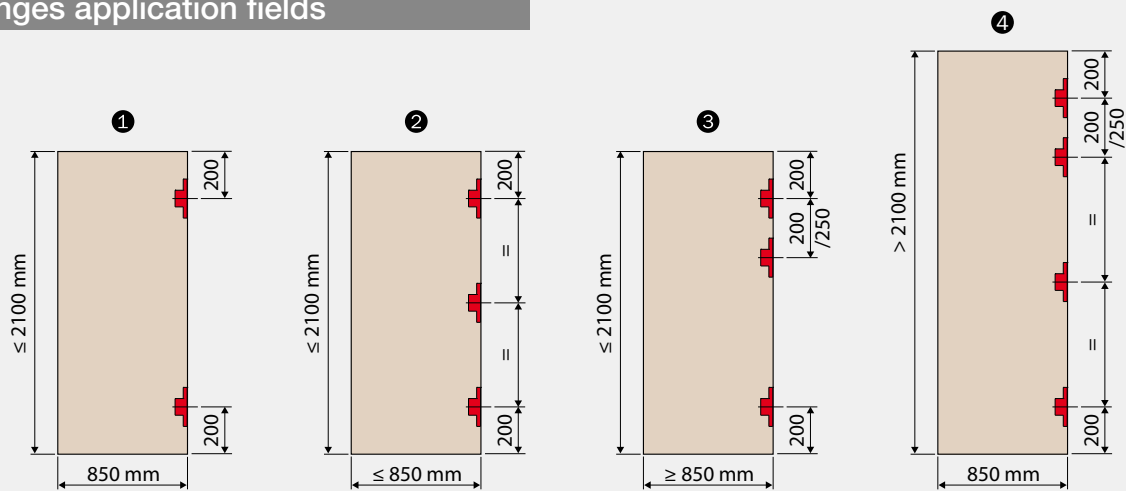
## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated



- 42. Light bronze plated
- 91. White
- 93. Matt black

Hinges application fields

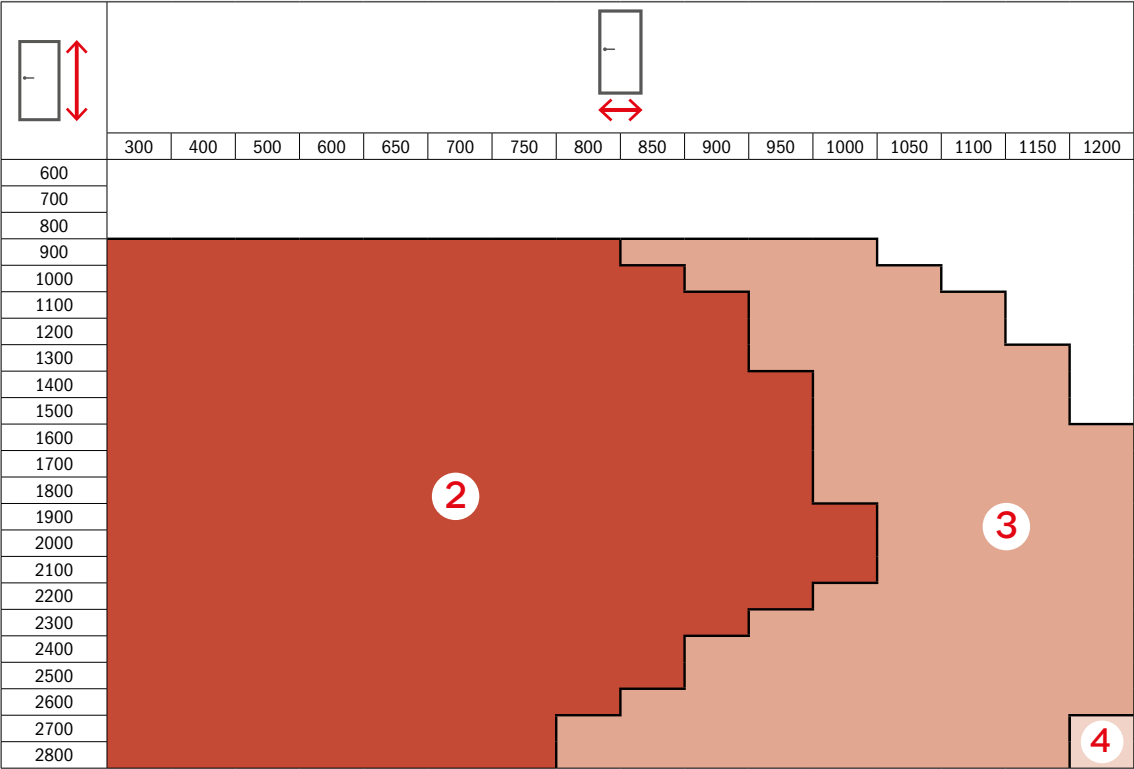


- 1 Two hinges capacity is 60 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 80 kg.
- 3 Three hinges capacity is 80 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 25 kg/m<sup>2</sup>.



# Eclipse 2.1

## For wooden and aluminium flush doors

Concealed hinge for internal flush doors with modern design. Eclipse 2.1 offers wide adjustments on three axis. The sash movement is fluid and precise up to 180°. Covers hide the adjustment screws and keep the door design even when the sash is open. Eclipse 2.1 stands out for high loading capacity, up to 60 kg with 2 hinges.



Up to 60 kg  
with two hinges,  
80 kg with three hinges.



Three adjustments  
completely  
independent.



For wood  
and aluminium  
doors.



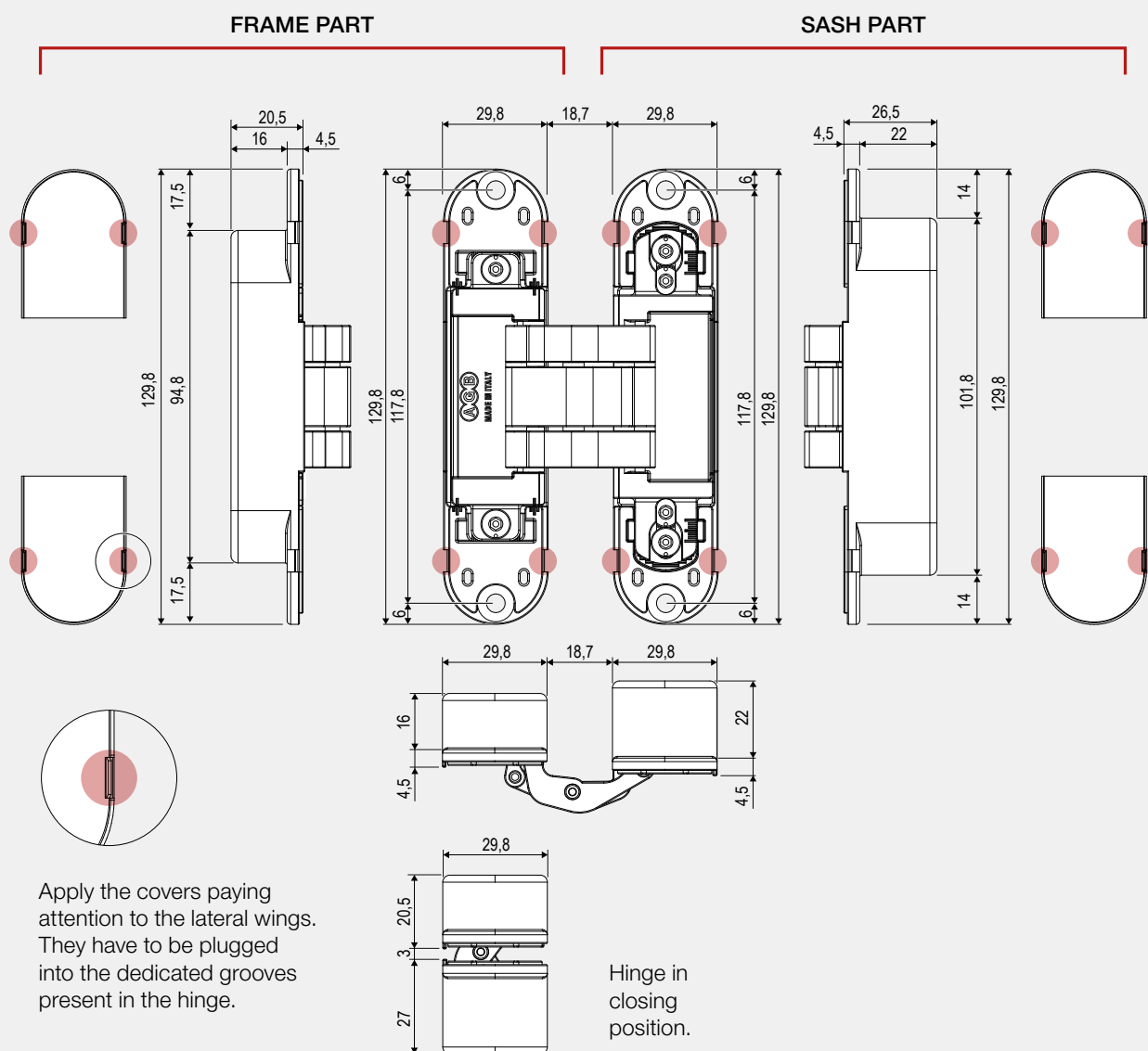
Ideal for sashes  
covered with glass.



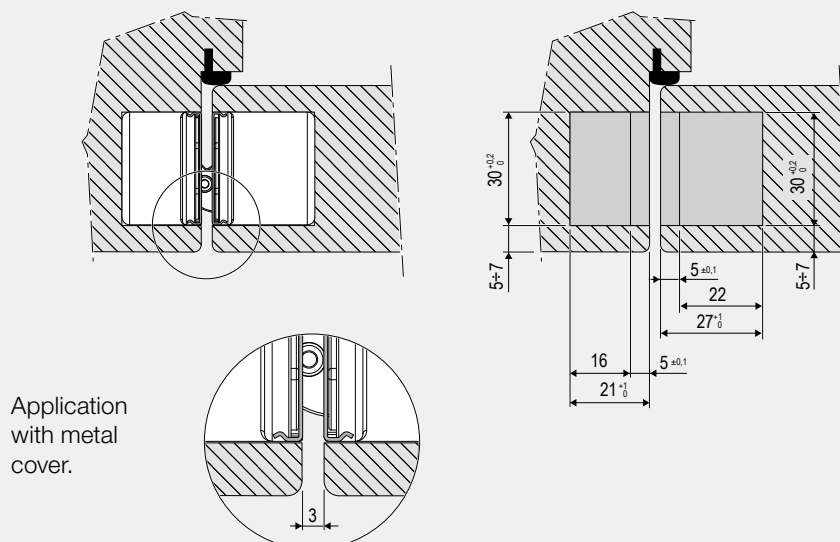
Flush metal  
covers.



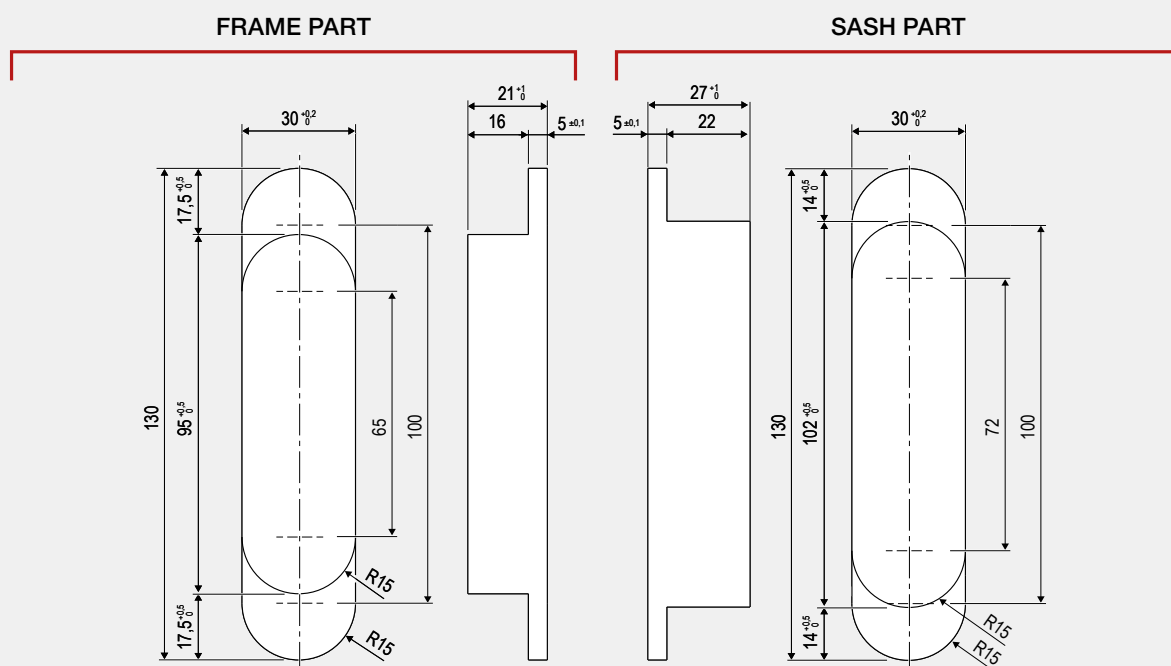
## Hinge dimensions



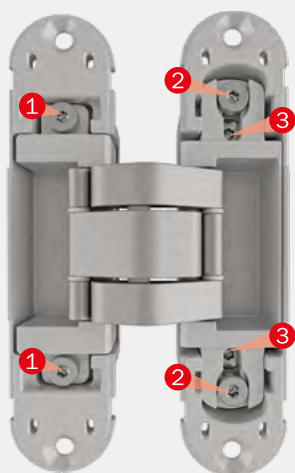
## Hinge application



## Drilling diagram



## Hinge adjustments



Please adjust the hinges one by one with a 3 mm Allen key; reach the desired adjustment on two screws alternatively and with little movements.

- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

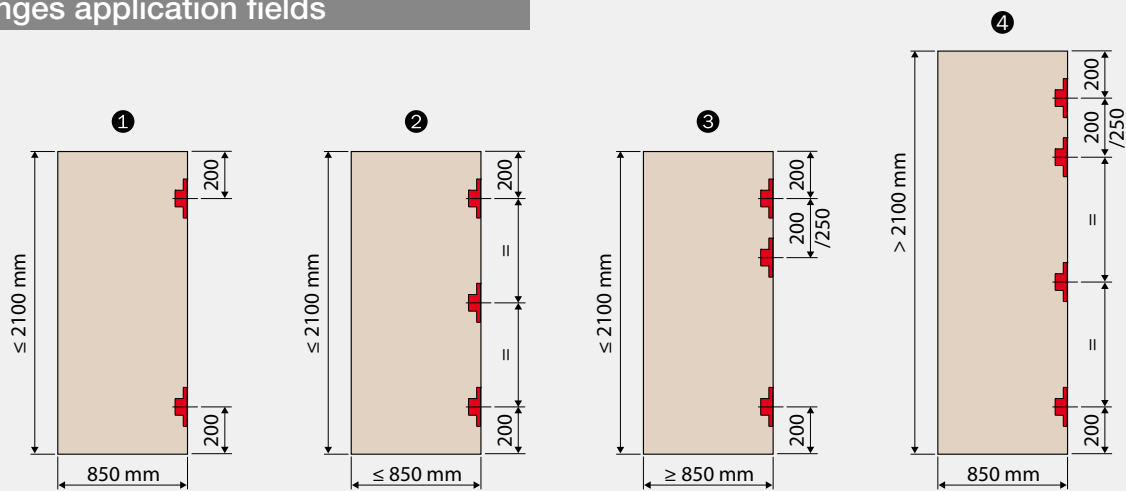
## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated



- 42. Light bronze plated
- 91. White
- 93. Matt black

Hinges application fields

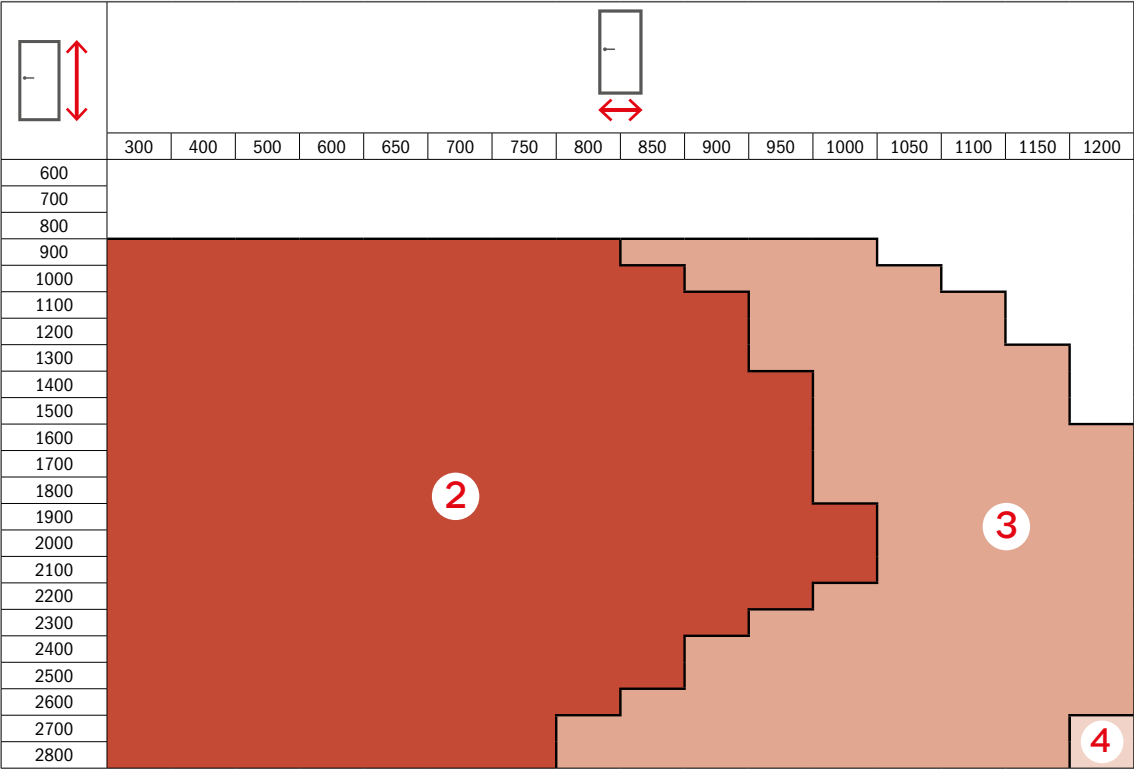


- 1 Two hinges capacity is 60 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 80 kg.
- 3 Three hinges capacity is 80 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

**THIRD-PARTY ACCESSORIES**

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 25 kg/m<sup>2</sup>.

# Eclipse 2.2

## For flush wooden doors

Concealed hinge for internal flush doors with modern design. Eclipse 2.2 offers wide adjustments on three axis. The sash movement is fluid and precise up to 180°. Covers hide the adjustment screws and keep the door design even when the sash is open. Eclipse 2.2 stands out for high loading capacity, up to 60 kg with 2 hinges.



Up to 60 kg with two hinges,  
80 kg with three hinges.



19 mm  
max. extension.



For wood  
doors.

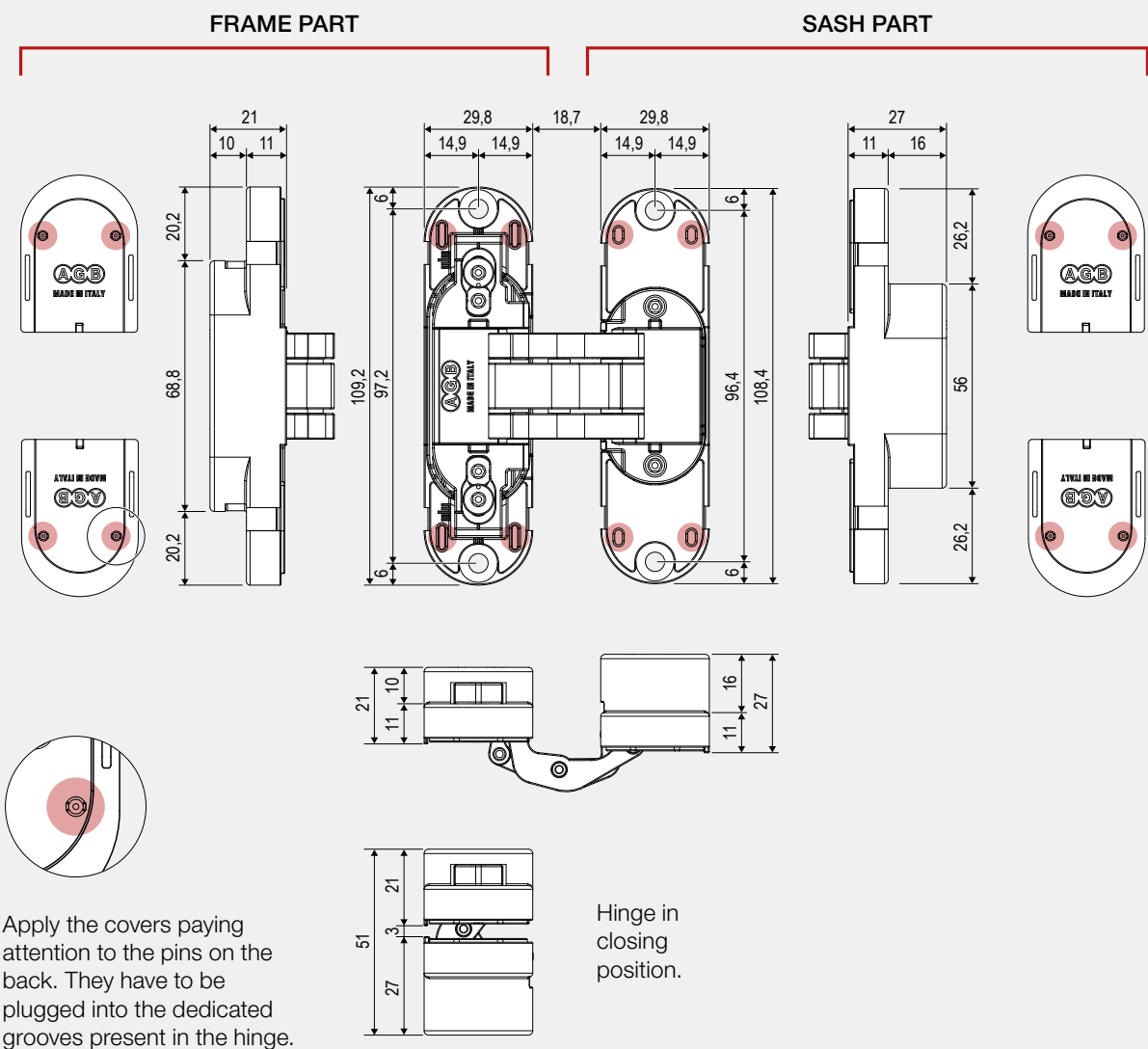


Three adjustments  
completely  
independent.

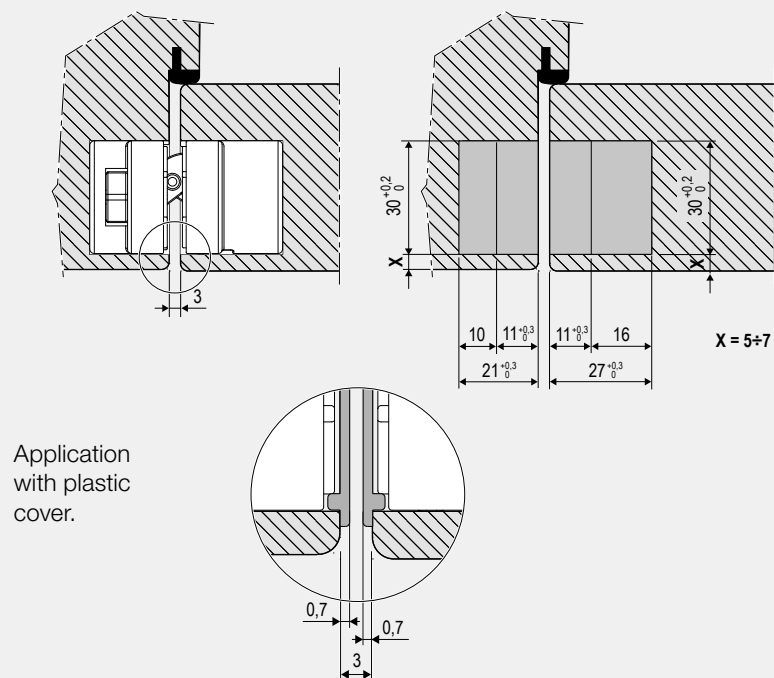


Covers with  
coverplate.

Hinge dimensions



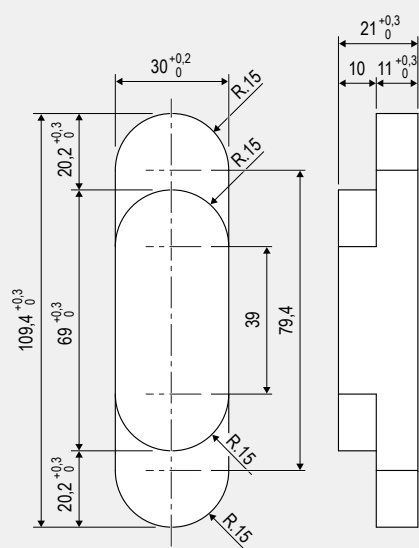
Hinge application



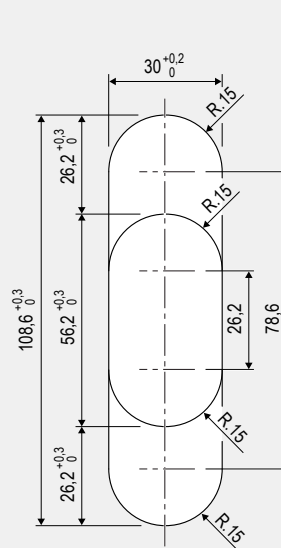


## Drilling diagram

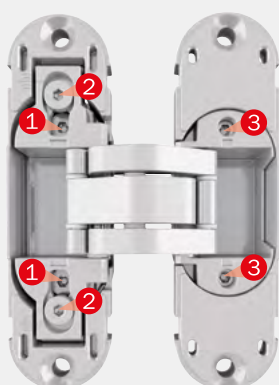
### FRAME PART



### SASH PART



## Hinge adjustments

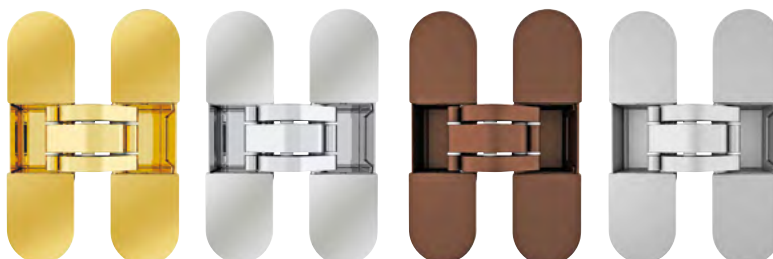


Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- **±1 mm pressure adjustment:**  
loosen the screws ❶ and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
loosen the screws ❷ using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01.  
After this operation fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ❸.

## Finishes

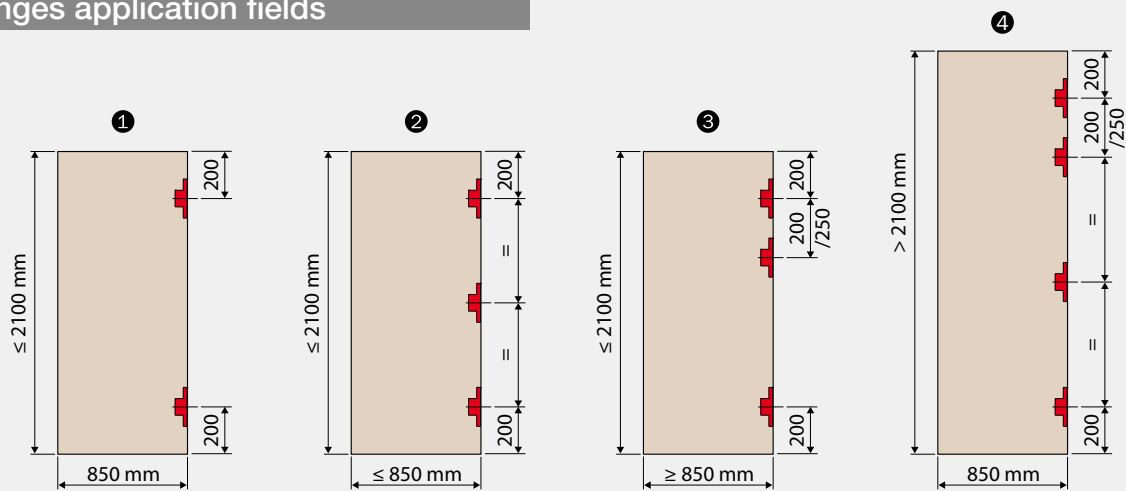
- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated



- 42. Light bronze plated
- 91. White
- 93. Matt black



Hinges application fields

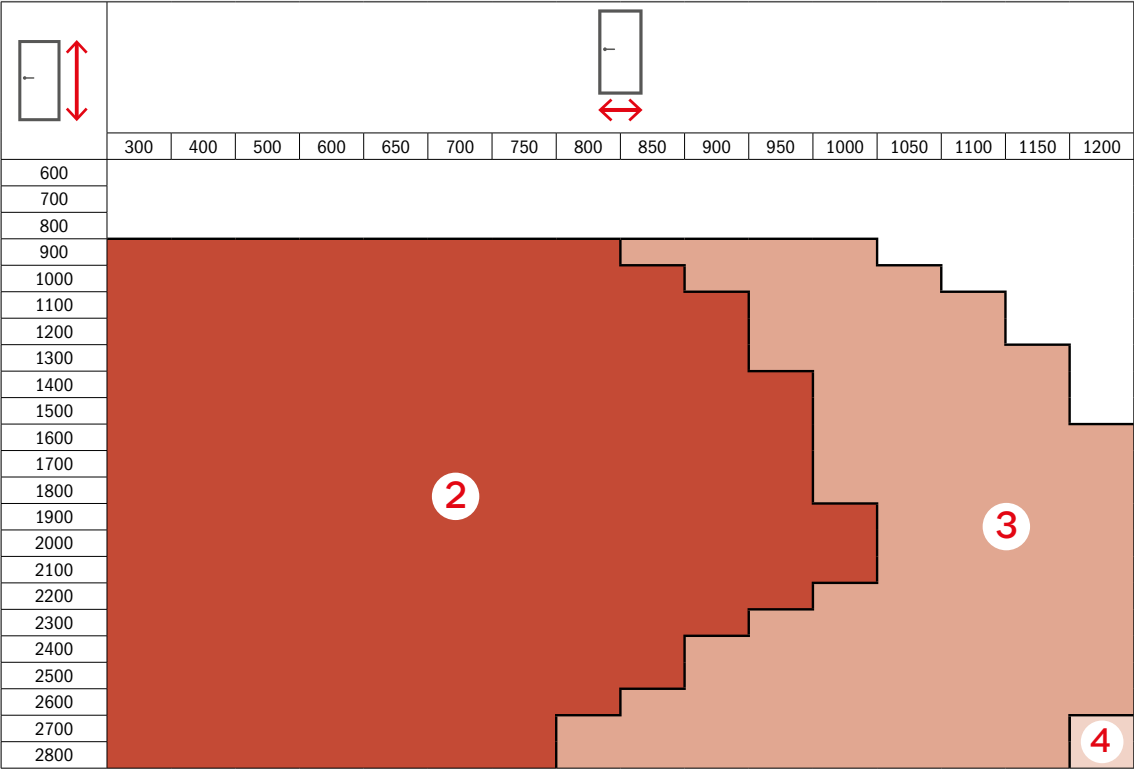


- 1 Two hinges capacity is 60 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 80 kg.
- 3 Three hinges capacity is 80 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 25 kg/m<sup>2</sup>.



# Eclipse 5.0

## High loading capacity hinges for flush doors

New high-capacity concealed hinge, designed for flush doors with heavy sashes and for hotel doors. Thanks to the three micrometric and independent adjustments, Eclipse 5.0 makes it easy to adjust even on very heavy doors. The screw-fixed metal covers ensure a precise and long-lasting fit.



Eclipse 5.0



Up to 100 kg with two hinges, 130 kg with three hinges.



Three micrometric and separate adjustments. Simple management of heavy sash.



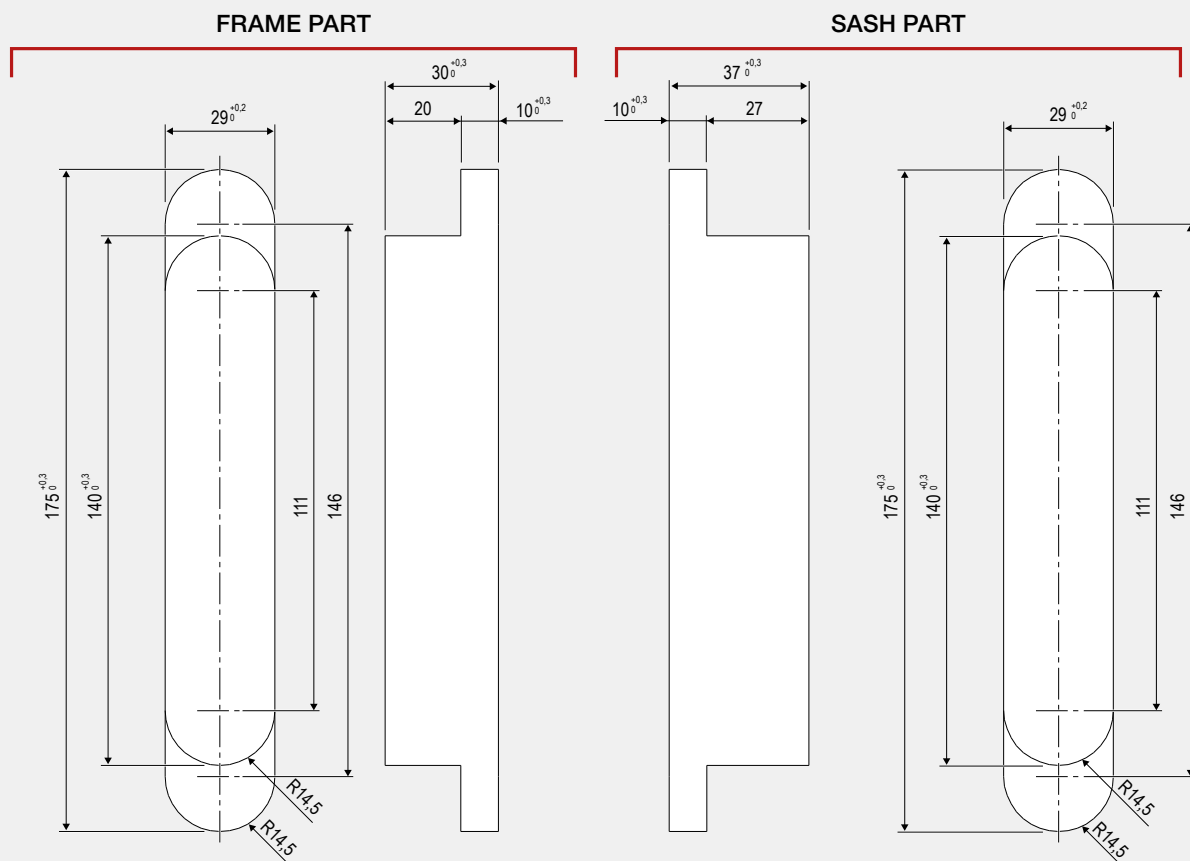
Perfect together with door closer or door stopper.



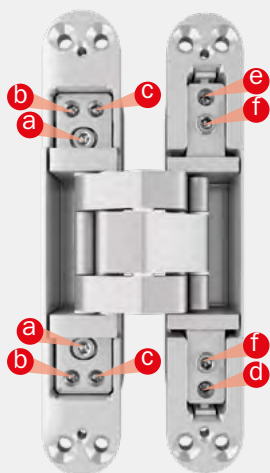
Flush steel covers.



## Drilling diagram



## Hinge adjustments



Please adjust the hinges one by one with a 4 mm Allen key; reach the desired adjustment on two screws alternatively and with little movements.

### • $\pm 1$ mm pressure adjustment:

**PRESSURE INCREASE:**

loosen **a**; screw **b** and unscrew **c**; fasten **a**.

**PRESSURE DECREASED:**

loosen **a**; unscrew **b** and screw **c**; fasten **a**.

### • $\pm 3$ mm vertical adjustment:

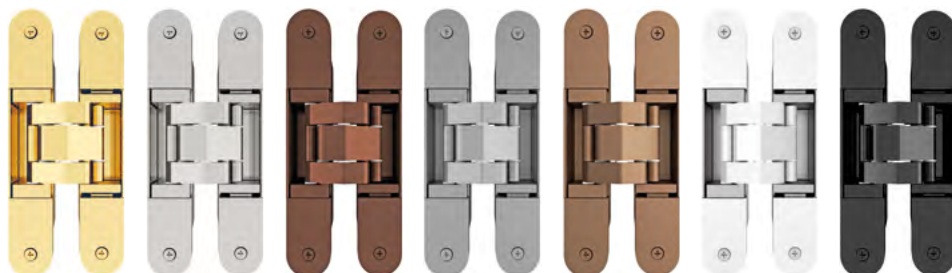
loosen **d**; raise (screw) or lower (unscrew) **e**; fasten **d**.

### • $\pm 3$ mm horizontal adjustment:

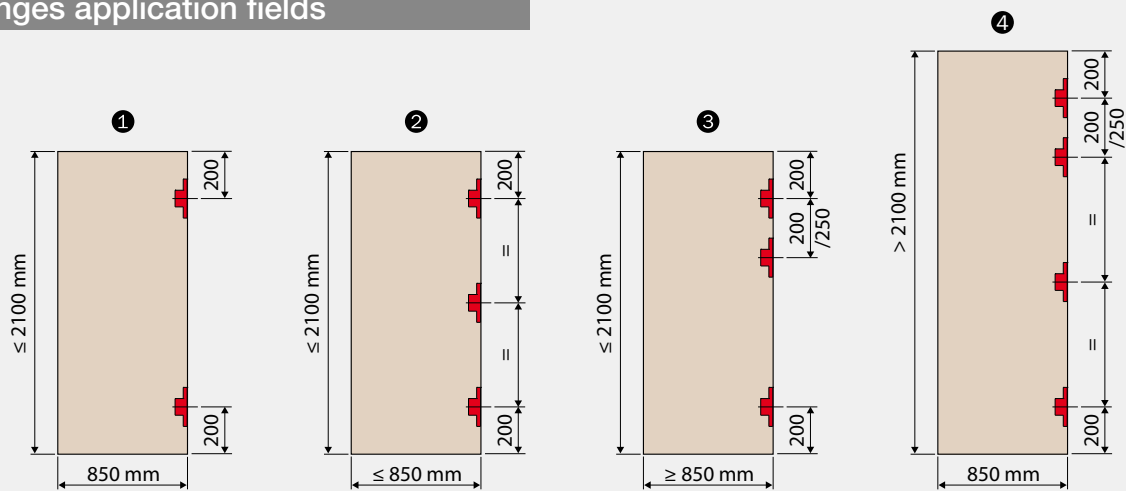
increase (unscrew) or decrease (screw) **f**.

## Finishes

- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated
- 42. Light bronze plated
- 91. White
- 93. Matt black



Hinges application fields

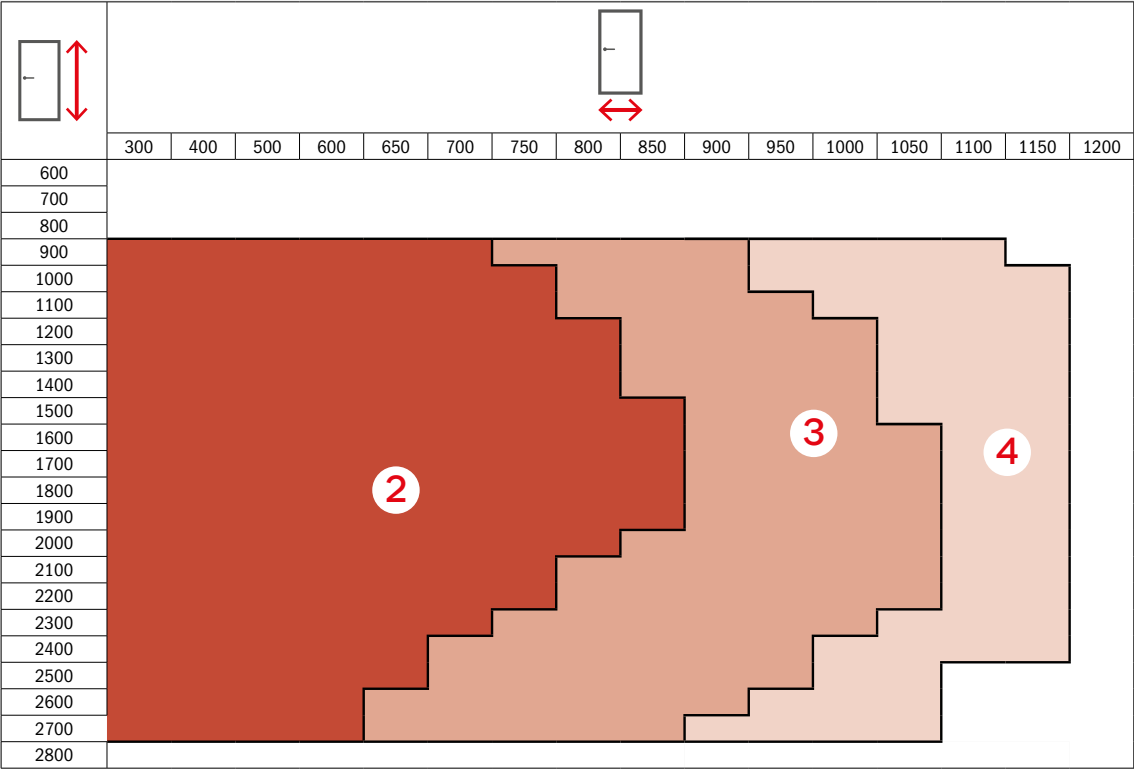


- 1 Two hinges capacity is 100 kg. In any case if the door is higher than 1600 mm we suggest you a third hinge in the central position to reduce deformations.
- 2 Three hinges capacity is 130 kg.
- 3 Three hinges capacity is 130 kg. The third hinge paired at the top is recommended when using an overhead door closer (A) or if installed in high-traffic locations.
- 4 The fourth hinge is recommended when using an overhead door closer (A) and door seals (B).

THIRD-PARTY ACCESSORIES

- Overhead door closer (A)
- Door seals (B)
- Floor-mounted door stop (C)  
Install it at a distance from the hinges of at least 75 % of the sash width in the direction of the lock.

Tests carried out with softwood and fixing of the hinge with screws as per technical data sheet\*



\* The technical sheets are available at [www.agb.it](http://www.agb.it).  
Doors with specific gravity of 60 kg/m<sup>2</sup>.

## Eclipse 3.2 HD



60  
minutes

EN 1634



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 ♦ 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref.	6026531
Your letter dated	
Our ref.	mue
Phone	+49 (8031) 261-2463
E-Mail	muders@ift-rosenheim.de
Nuremberg	17 12 2019

### Confirmation Letter for "Eclipse 3.2 HD"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 546"; the exposed face was the opening face. Test duration was 60 minutes.

The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 546" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR03 issued by ift Rosenheim.

The suitability of "Eclipse 3.2 HD" (E302006134), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.2 HD" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body

## Eclipse 3.4 HD



60  
minutes

EN 1634



ift Rosenheim GmbH  
Notifizierte Produktzertifizierungsstelle  
Gutenstetter Str. 2 ♦ 90449 Nürnberg

Alban Giacomo spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino (VI)  
Italien

Your ref.	6026531
Your letter dated	
Our ref.	mue
Phone	+49 (8031) 261-2463
E-Mail	muders@ift-rosenheim.de
Nuremberg	17.12.2019

### Confirmation Letter for "Eclipse 3.4 HD"

Dear Sirs,

on 25.06.2019 a fire resistance test was conducted on the doorset "X 546"; the exposed face was the opening face. Test duration was 60 minutes.  
The thermal insulation criteria were fulfilled for 60 minutes, integrity was maintained for 60 minutes.

"X 546" is a hinged doorset made from timber and derived timber products, classified EI<sub>2</sub>60. The dimensions of the door leaves were (W x H) 952 mm x 2421 mm with an overall thickness of the door leaf of 70 mm.

For further details refer to the test report 19-002399-PR03 issued by ift Rosenheim.

The suitability of "Eclipse 3.4 HD" (E302006234), produced by the company Alban Giacomo spa for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

Use of the "Eclipse 3.4 HD" in door constructions other than those tested must be verified separately.

Best regards  
ift Rosenheim

pp Erich Muders, M. Sc  
Project Engineer  
Certification & Surveillance Body



## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190930-R39790  
**Report Reference** R39790-20190917  
**Issue Date** 2019-SEPTEMBER-30

**Issued to:** AGB Alban Giacomo Spa  
Via A. De Gasperi 75  
36060 Romano d'Ezzelino VI ITALY

**This certificate confirms that  
representative samples of** DOOR HINGES  
See Addendum Page

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

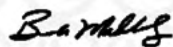
**Standard(s) for Safety:** UL10C - STANDARD FOR POSITIVE PRESSURE FIRE  
TESTS OF DOOR ASSEMBLIES  
UL10B - STANDARD FOR FIRE TESTS OF DOOR  
ASSEMBLIES  
CAN/ULC-S104 - FIRE TESTS OF DOOR ASSEMBLIES

**Additional Information:** See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up  
Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's  
Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





# Certificates

Eclipse 3.2 HD, Eclipse 3.4 HD



60  
minutes

## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190930-R39790  
**Report Reference** R39790-20190917  
**Issue Date** 2019-SEPTEMBER-30

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

### Models/Products:

USL, CNL Models Type Eclipse 3.0, Eclipse 3.1, Eclipse 3.2, Eclipse 3.2 HD, Eclipse 3.3, Eclipse 3.4, Eclipse 3.4 HD and Eclipse 3.5 for use on swinging type fire doors of types wood / composite type rated up to and including 1 hour with a minimum thickness of 70 mm, incorporating active bolts and studs, for doors (leaf) limited to 952 mm wide x 2421 mm high.

A handwritten signature in black ink.

Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



## TESTING and RESEARCH



Laboratory: „F Plus“ OOD, ul. „Vitosha“, 2042 Kostenets, Sofiiska oblast  
Office: bul. „Al.Stamboliyski“ 205, sgrada B, floor 3, off. 306B, Sofia 1000  
Telephone: +359 878 112 112; e-mail: office@fplus-eu.com; www.fplus-eu.com

Out № 620  
from 21.07.2023

To  
**The representatives of Alban  
Giacomo Spa**

On 16.12.2022 a fire resistance test was conducted on the doorset "Halspan 44 mm Prima". The fire impact was on the side of the hinges. Test duration was 70 minutes.

The thermal insulation criteria were fulfilled for 69 minutes, integrity was maintained for 70 minutes.

Halspan 44 mm Prima is a hinged door made from timber and derived timber products, classified EI1; EI260. The dimensions of the door leaves were (W x H) 2156 mm x 871 mm with an overall thickness of the door leaf of 56 mm.

The suitability of "Eclipse 2.1" (E302009234), produced by the company Alban Giacomo spa – Italy for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

For further details refer to the test report TR-391-01/29.05.2023 issued by F Plus Ltd.

The Halspan 44 mm Prima door, produced by the company YIANNAKIS KOKKINOS LTD. Has been successfully verified by the fire resistance test as per EN 1634-1;2014+A1:2018 for test duration of 70 minutes.

With respect,  
Head of Laboratory  
"Fplus" fire tests:

.....  
/Assoc. Proff. Eng. Detelin Spassov, PhD/

21.07.2023

## TESTING and RESEARCH

Laboratory: „F Plus“ OOD, ul. „Vitosha“, 2042 Kostenets, Sofiiska oblast  
Office: bul. „Al.Stamboliyski“ 205, sgrada B, floor 3, off. 306B, Sofia 1000  
Telephone: +359 878 112 112; e-mail: office@fplus-eu.com; www.fplus-eu.com



Out № 724  
from 21.07.2025

**To**  
**The representatives of**  
**Alban Giacomo Spa**

On 04.02.2025 a fire resistance test was conducted on the doorset "Fortis EI60". The fire impact was bilateral. Test duration was 63 minutes.

The thermal insulation criteria were fulfilled for 64 minutes, integrity was maintained for 63 minutes.

Fortis EI60 is a hinged door made from timber and derived timber products, classified EI<sub>1</sub>; EI<sub>2</sub> 60. The dimensions of the door leaves were (W x H) 2200 mm x 1000 mm with an overall thickness of the door leaf of 56 mm.

The suitability of "Eclipse 5.0" (E305010834), produced by the company Alban Giacomo spa– Italy for installation in this door construction has been successfully verified by the fire resistance test as per EN 1634-1 for a test duration of 60 minutes.

For further details refer to the test report TR-459-01/05.05.2025 issued by F Plus Ltd.

Additional information will be given in final reports issued from Fplus Testing and Research Laboratory.

With respect,  
Head of Laboratory  
"Fplus" fire tests:

A handwritten signature in blue ink, appearing to be "Detelin Spassov", written over a horizontal dotted line.

/Assoc. Proff. Eng. Detelin Spassov, PhD/

21.07.2025

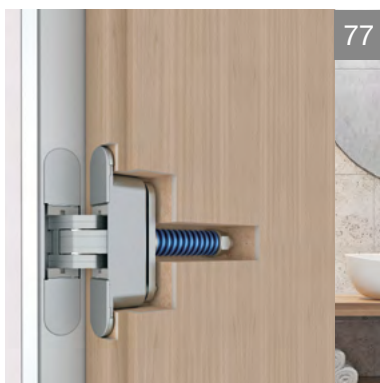




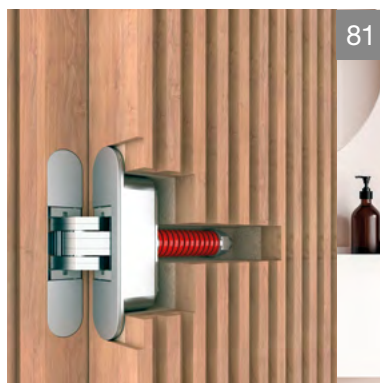
High loading  
capacity  
concealed  
hinges with  
built-in door  
closer



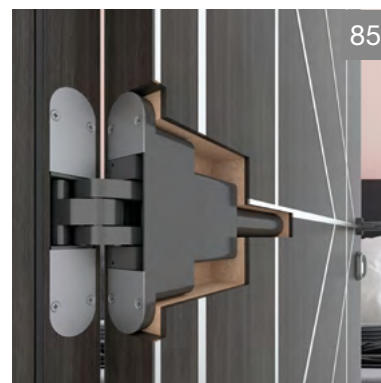
# High loading capacity concealed hinges with built-in door closer



Eclipse 3.2 HD Self



Eclipse 3.4 HD Self



Eclipse Self

Eclipse	TECHNICAL INFORMATION						APPLICATIONS			CERTIFICATES		
	capacity	adjustment	opening	max. extension	covers applications		flush doors with rebate	flush doors without rebate	aluminium flush doors	fire and smoke resistant doors	EAD 020001-01-0405 EN 1935	UL LISTED
3.2 HD Self	≤ 60 kg	3	180°	14 mm	●		●	●	●			
3.4 HD Self	≤ 60 kg	3	180°	14 mm	●			●	●			
Self	x2 = 100 kg	7	Max. 125°	/	●		●	●	●	●	●	

# Eclipse 3.2 HD Self

## Self-closing hinges for internal flush aluminium and wooden doors

The new concealed hinge with integrated closing system with spring Eclipse 3.2 HD Self is reversible with frame part reduced to 21 mm.

Same millings of the Eclipse 3.2 range plus the milling for the spring body.



Self-closing system.



Steel levers, ideal for heavy doors.



The same millings of the Eclipse 3.2 hinges adding the spring milling.

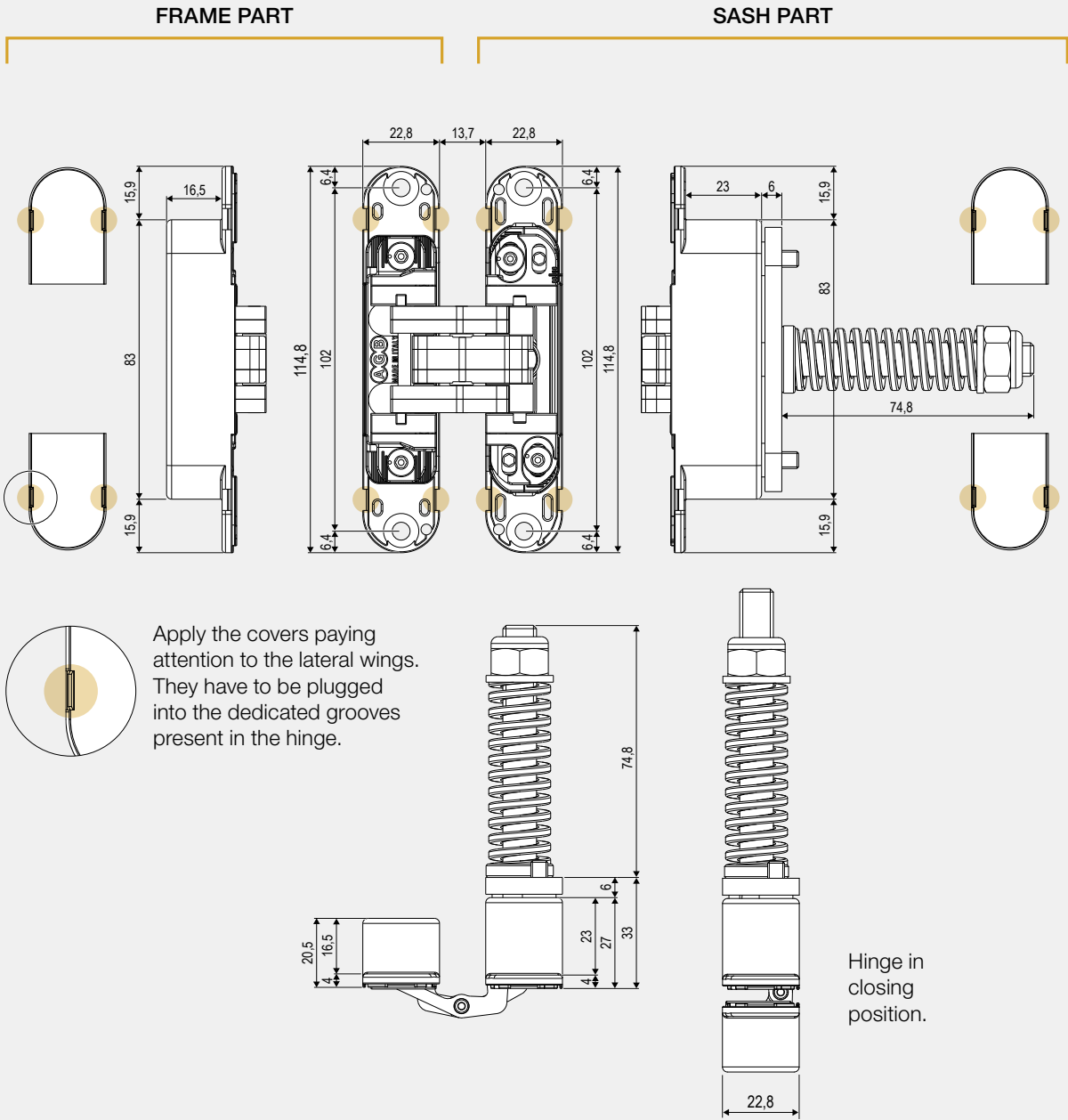


Wide adjustments.

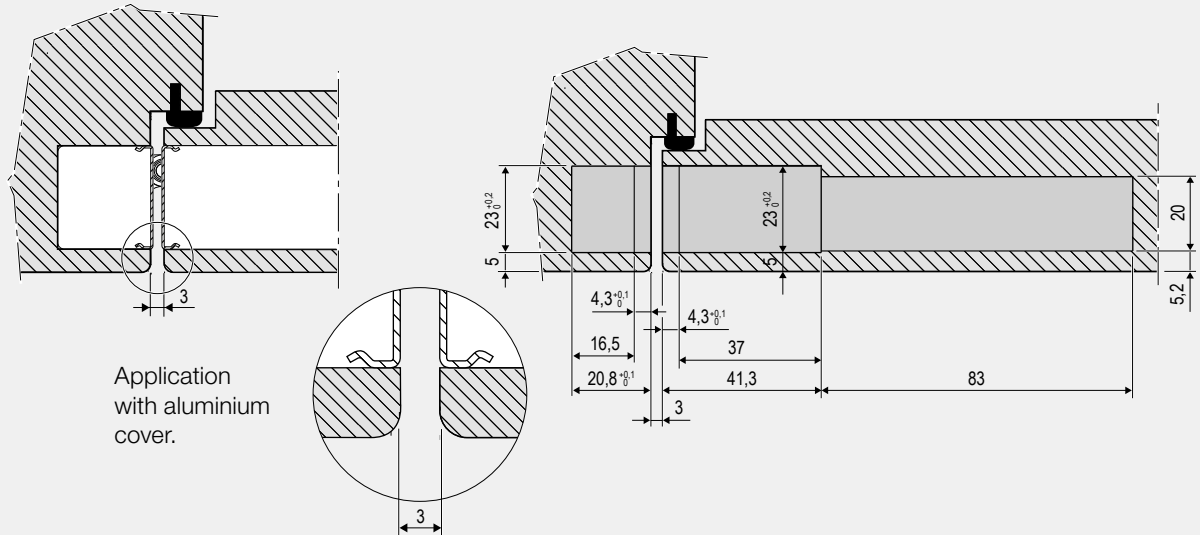


Flush covers.

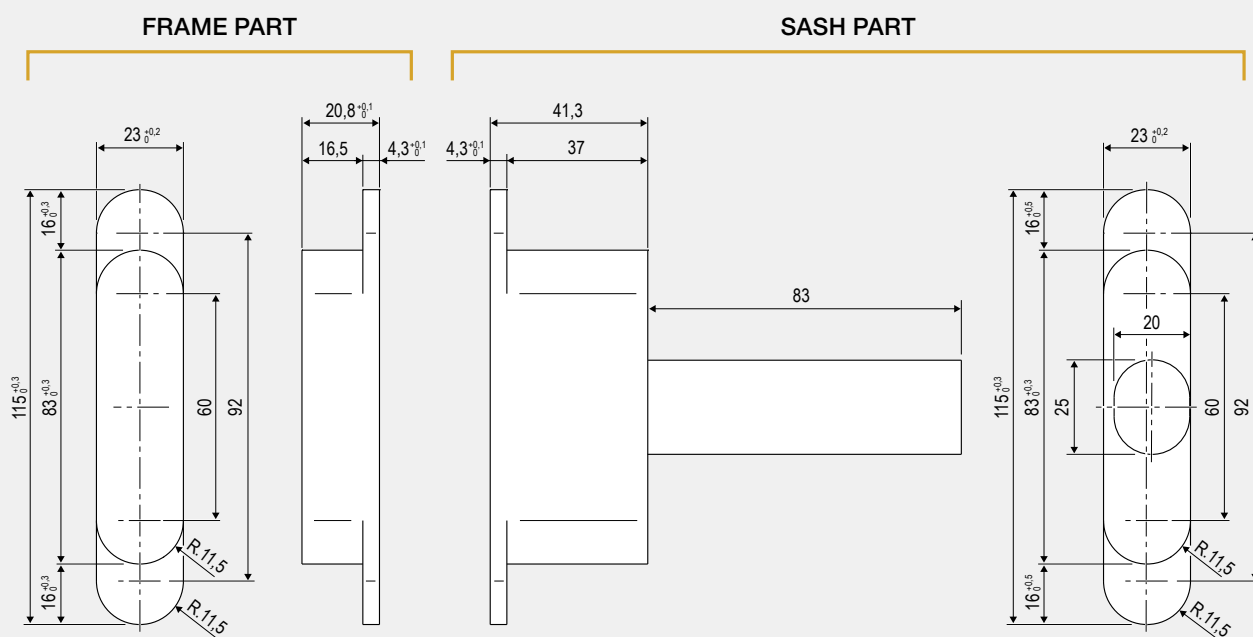
## Hinge dimensions



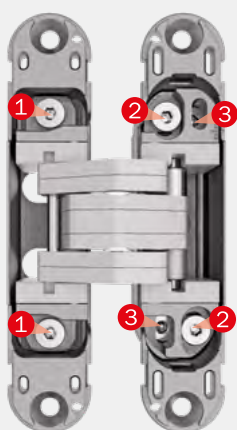
## Hinge application



## Drilling diagram



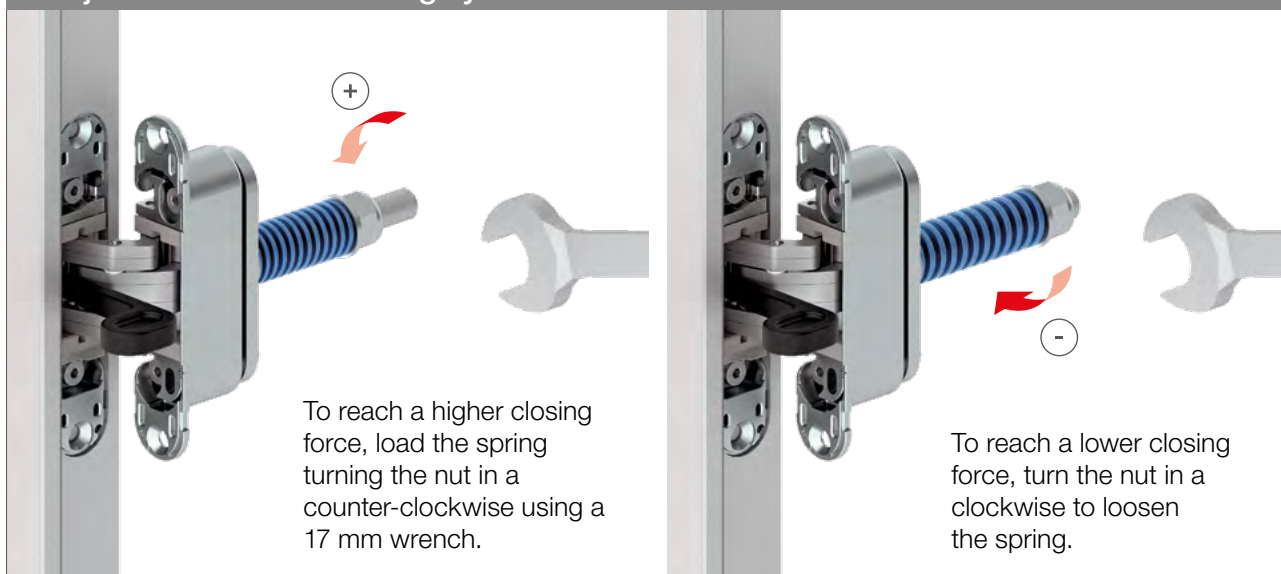
## Hinge adjustments



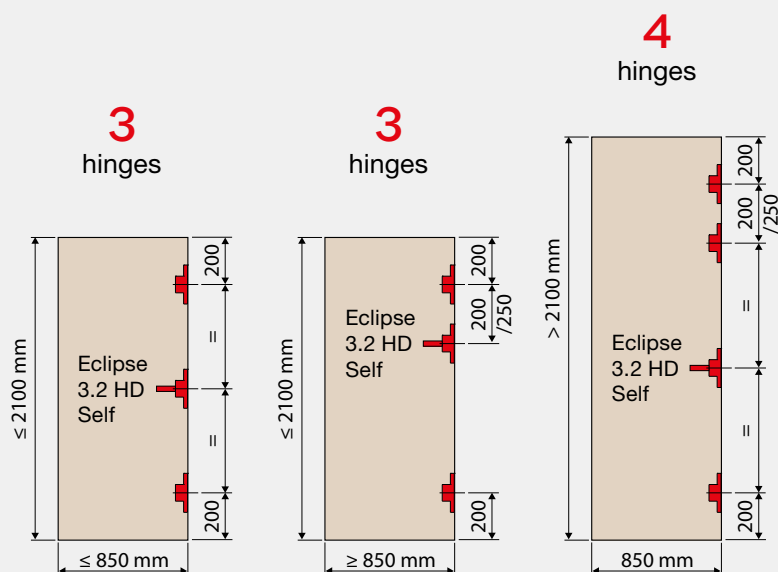
Please adjust the hinges with a 3 mm Allen key, as indicated here below:





- **±1 mm pressure adjustment:**  
loosen the screws ① and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
to reach the desired adjustment, loosen the screws ② and, against the spring thrust, move vertically the hinge body by using a screwdriver and the wedge, art. E30200.89.01.  
After this operation, fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ③.

## Adjustments of the closing system



## Mounting ways for Eclipse 3.2 HD Self hinge



	TECHNICAL INFORMATION		
	 Spring	 Suitable for sashes	 Compatibility
3.2 HD Self	Blue	Up to 40 kg	Eclipse 3.0 Eclipse 3.2 Eclipse 3.2 HD
	Red	Up to 60 kg	Eclipse 3.0 Eclipse 3.2 Eclipse 3.2 HD

## Capacity

*The capacity depends on the type of hinge with which it is combined.  
Refer to the “Hinge application fields” of the Eclipse 3.2 and Eclipse 3.2 HD series.*

**Note.** The technical sheets are available at [www.agb.it](http://www.agb.it).



# Eclipse 3.4 HD Self

## Self closing hinge for internal flush aluminium and wooden doors

The new concealed hinge with integrated closing system with spring Eclipse 3.4 HD Self is reversible with frame part reduced to 21 mm.

Same millings of the Eclipse 3.4 range plus the milling for the spring body.



Self-closing system.



Steel levers, ideal for heavy doors.



The same millings of the Eclipse 3.4 hinges adding the spring milling.



Wide adjustments.



For reversible doors 38-40 mm.



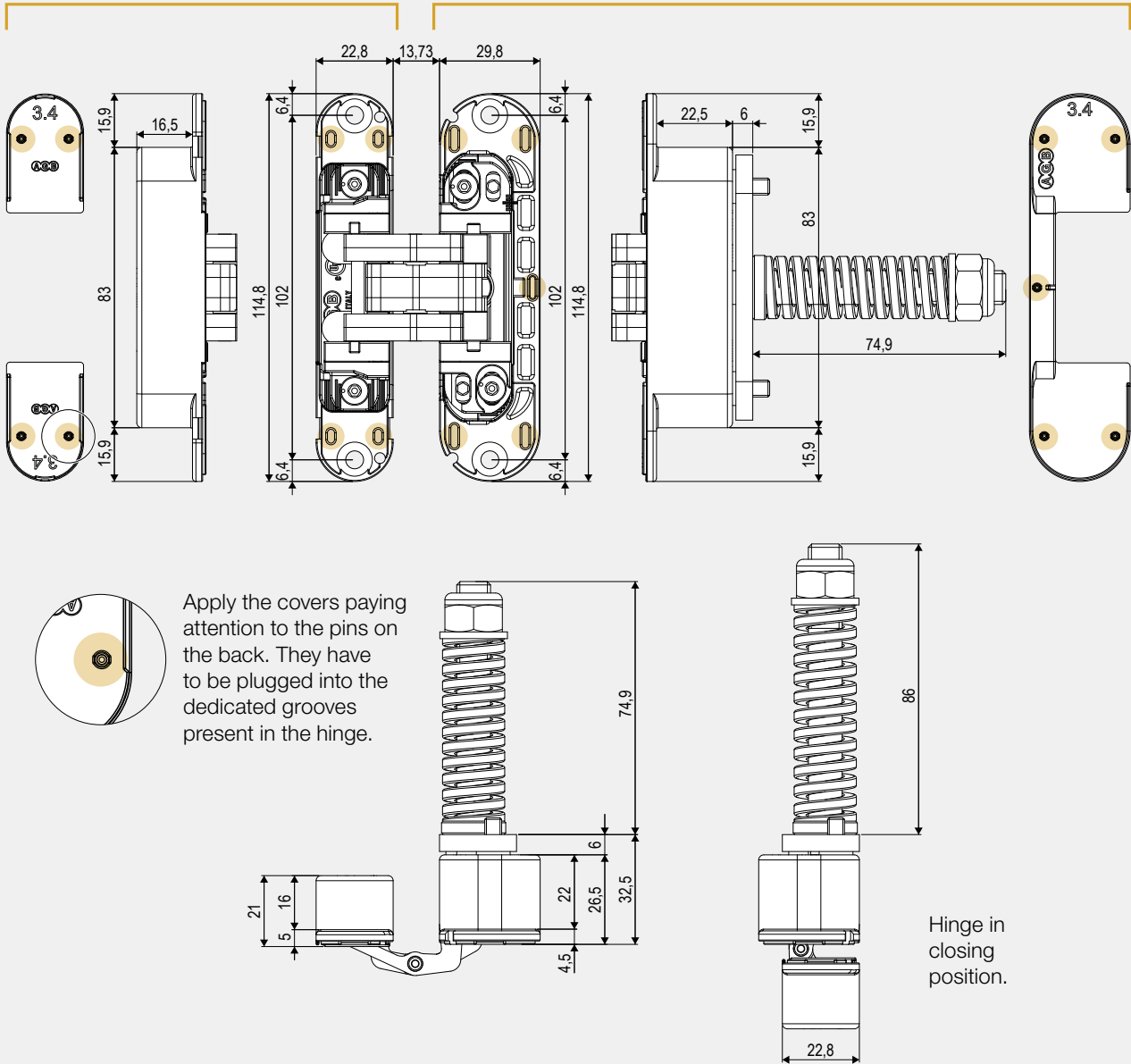
Flush covers.



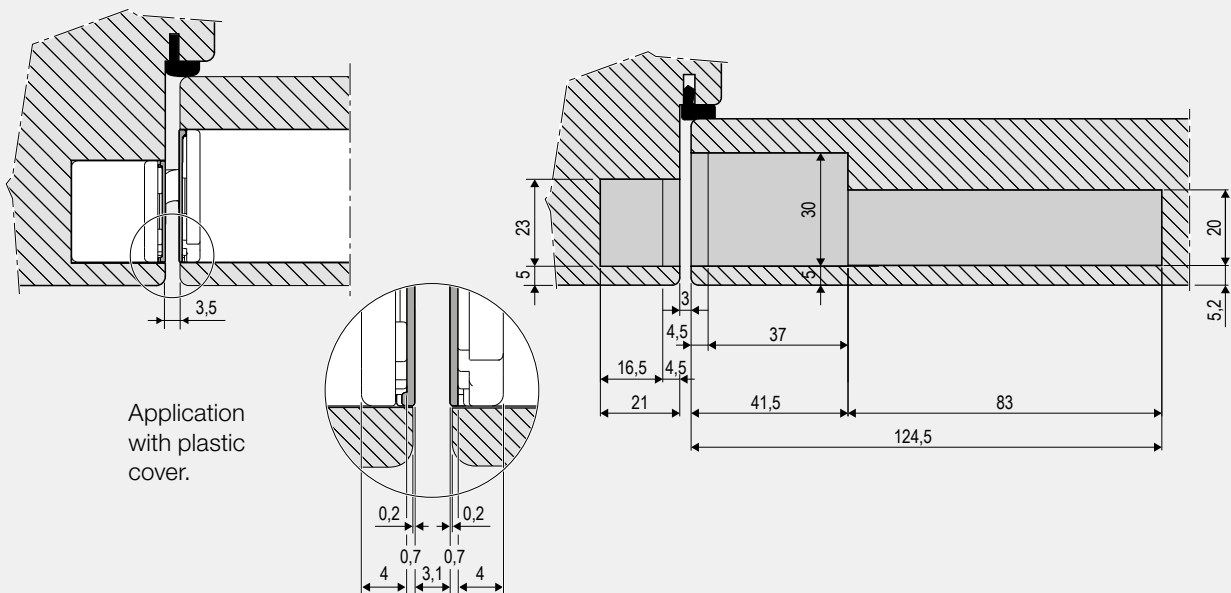
Hinge dimensions

FRAME PART

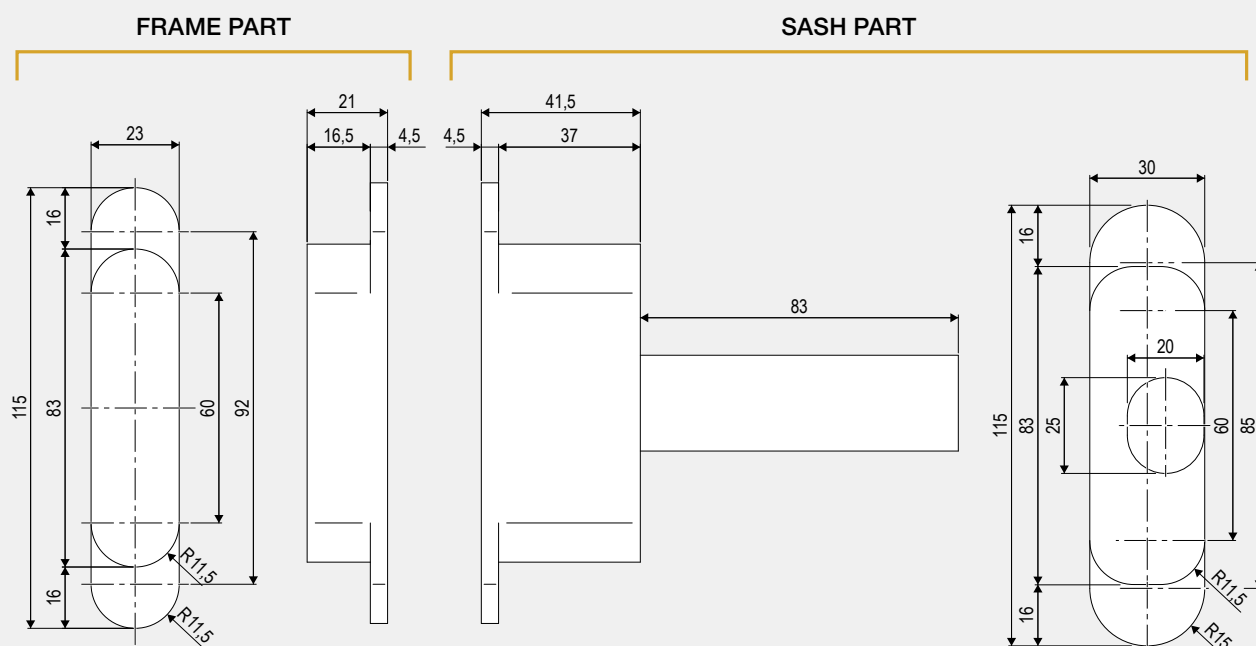
SASH PART



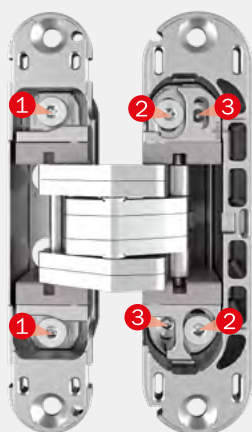
Hinge application



## Drilling diagram



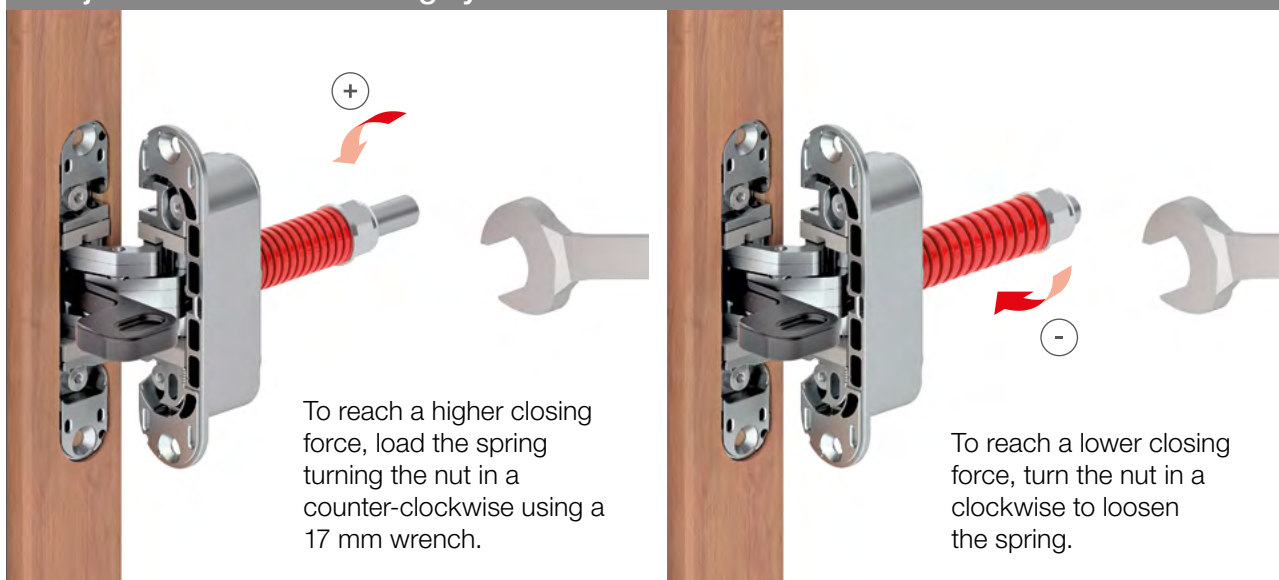
## Hinge adjustments



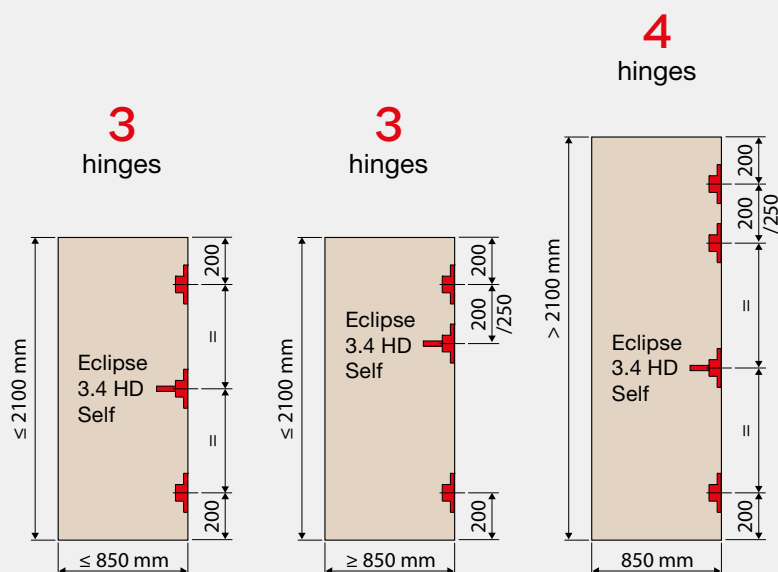
Please adjust the hinges with a 3 mm Allen key, as indicated here below:





- **±1 mm pressure adjustment:**  
loosen the screws ① and move the hinge body.  
After this operation fasten the screws.
- **±2 mm vertical adjustment:**  
to reach the desired adjustment, loosen the screws ② and, against the spring thrust, move vertically the hinge body by using a screwdriver and the wedge, art. E30200.89.01.  
After this operation, fasten the screws.
- **±1,5 mm horizontal adjustment:**  
move the screws ③.

## Adjustments of the closing system



## Mounting ways for Eclipse 3.4 HD Self hinge



	TECHNICAL INFORMATION		
	 Spring	 Suitable for sashes	 Compatibility
3.4 HD Self	Red	Up to 60 kg	Eclipse 3.4 Eclipse 3.4 HD

## Capacity

*The capacity depends on the type of hinge with which it is combined.  
Refer to the “Hinge application fields” of the Eclipse 3.4 and Eclipse 3.4 HD series.*

**Note.** The technical sheets are available at [www.agb.it](http://www.agb.it).

# Eclipse Self

## Controlled self-closing hinge for hotel doors

Hinge with adjustable integrated door closer and patented device that controls the closing rotation of the door.

The device is adjustable and ensures the excellent movement of sash for every kind of door. The system is concealed in order to enhance the design of hotel door.



Self-closing system.



Steel levers, ideal for heavy doors.



Up to 100 kg of loading capacity with two hinges.



Wide adjustments for the closing system.

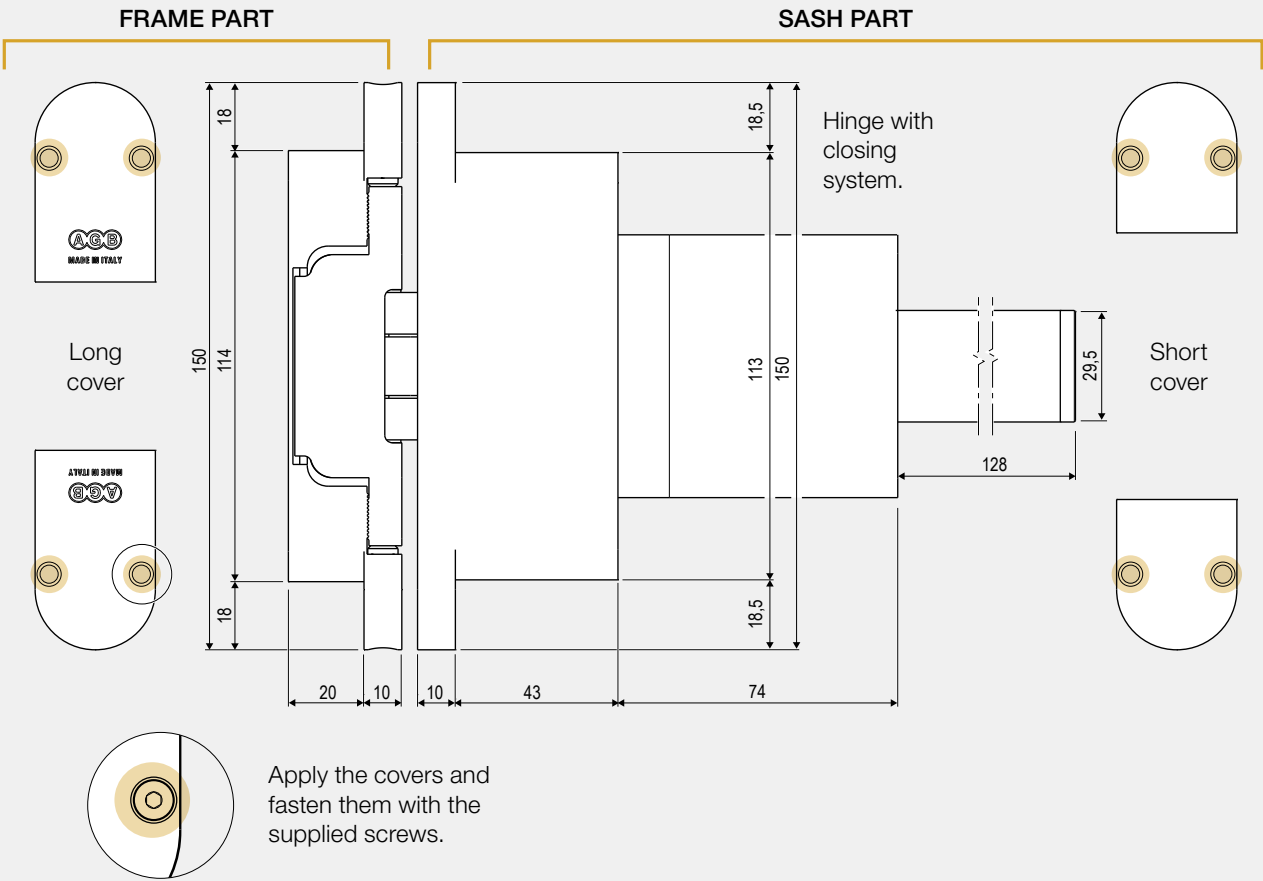


Hinges reversible.

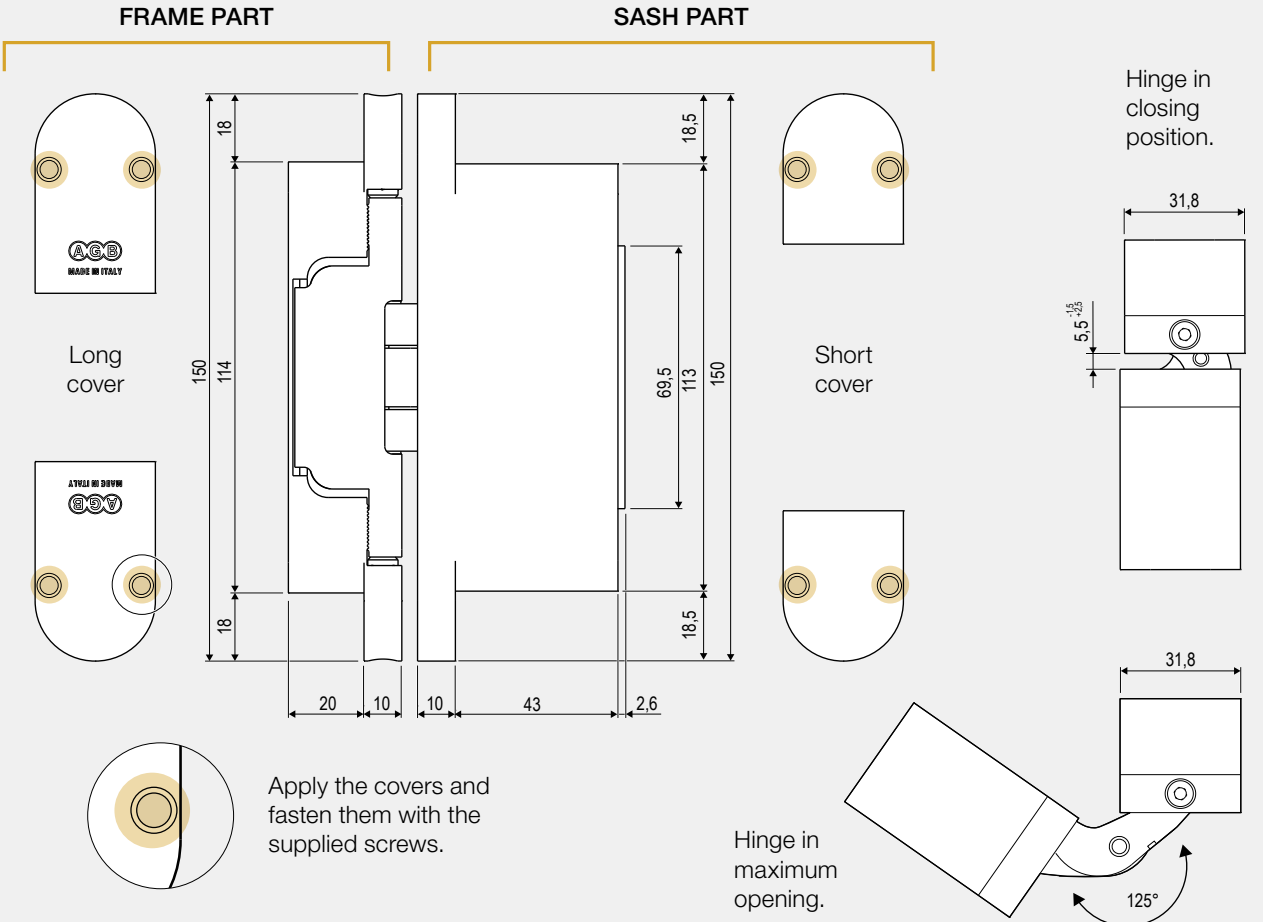


Flush steel covers.

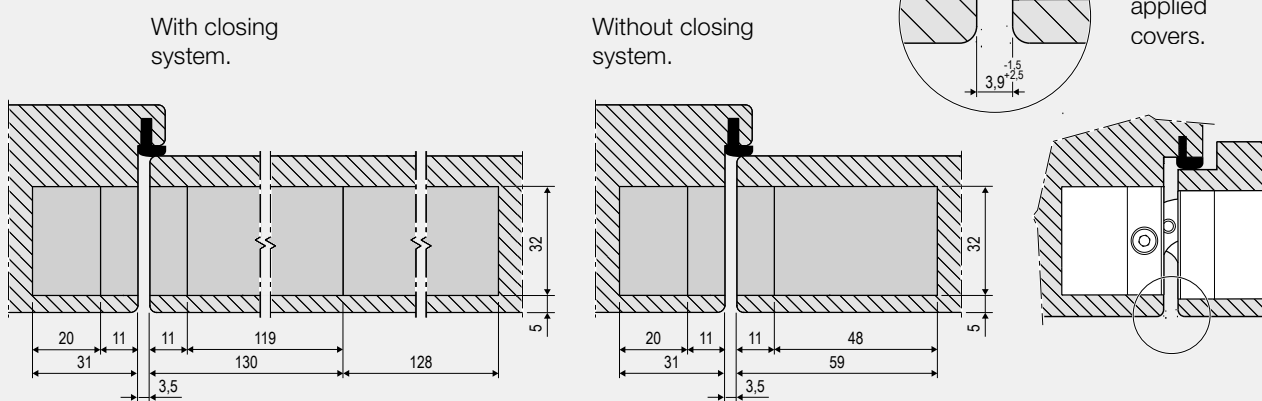
Hinge dimensions with closing system



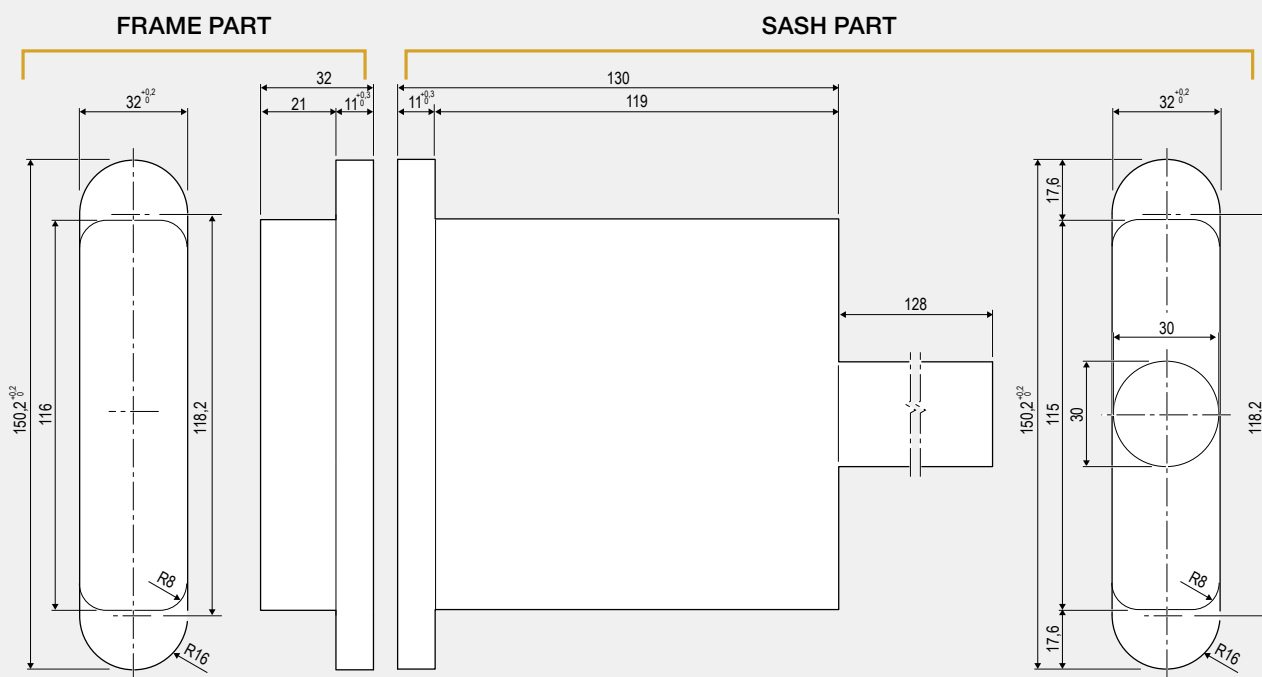
Hinge dimensions without closing system



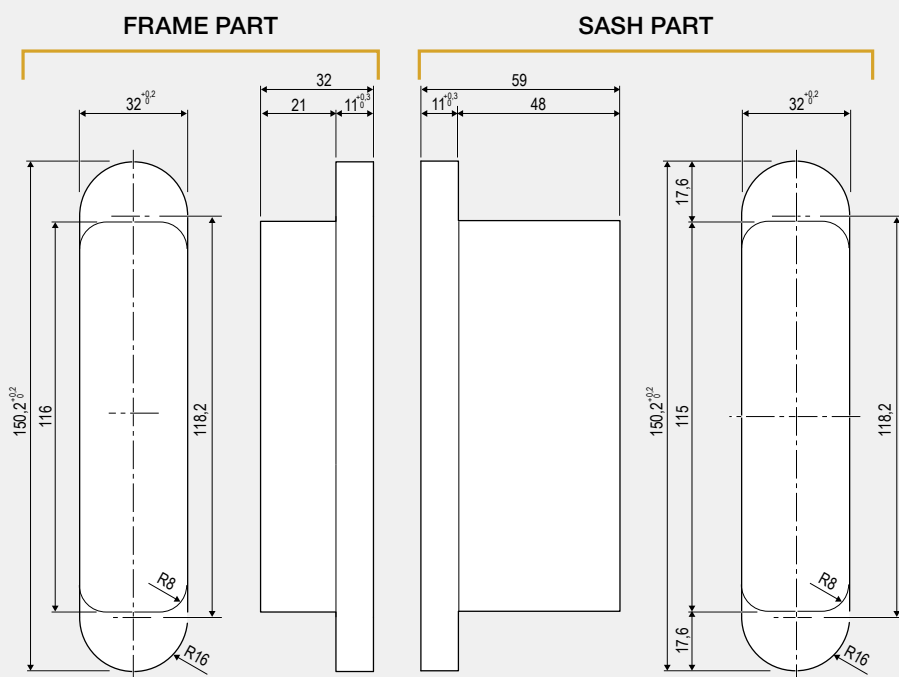
## Hinge application



## Hinge drilling diagram with closing system

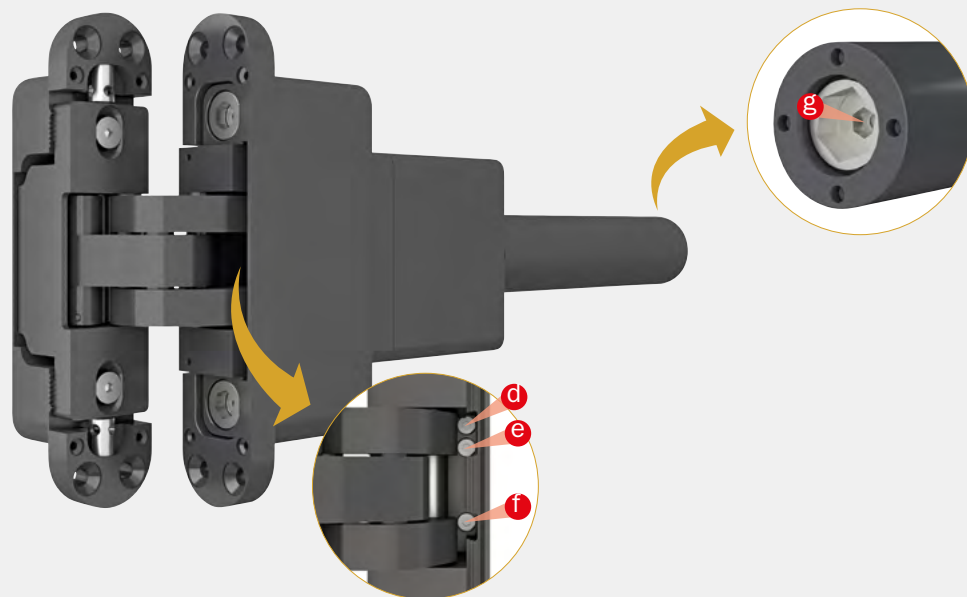


## Hinge drilling diagram without closing system





## Hinge adjustments with closing system



Please adjust the hinges one by one with a 2,5 mm and 12 mm Allen key. The door closing can be adjusted as follows:

- **Power for final step**

Power of the final step in the last 12° with a 2,5 mm Allen key **d**. In counter-clockwise, the speed increases.

- **Max. corner opening**

Maximum opening corner with a 2,5 mm Allen key **e**. In counter-clockwise, the maximum of opening corner increases.

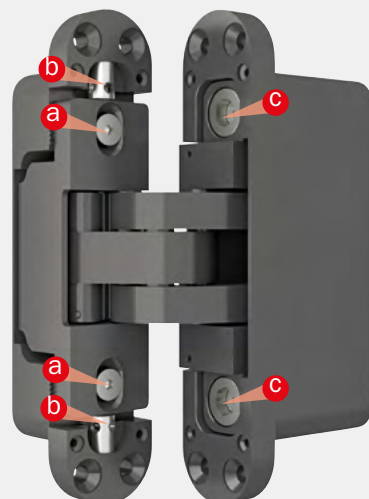
- **Speed of closing**

With a 2,5 mm Allen key **f**. In counter-clockwise, the speed increases.

- **Closing power**

Power of closing during rotation, with a 12 mm Allen key **g**. This adjustment can be done only before installing the hinge; from the factory setting, please never turn in counter-clockwise.

## Hinge adjustments without closing system



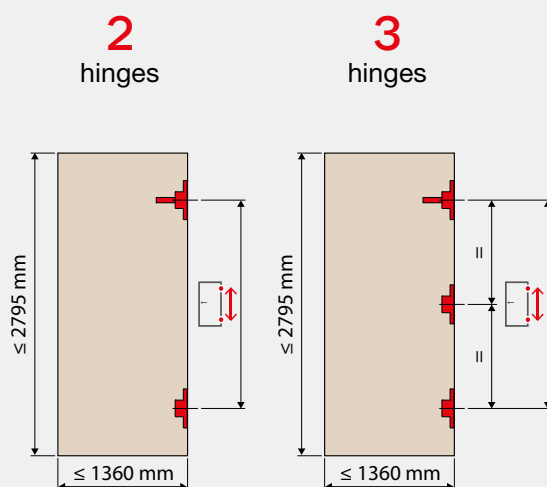
Please adjust the hinges one by one with a 3 mm and 8 mm Allen key.

- **±1 mm pressure adjustment:**  
with a 3 mm Allen key **a**.

- **±2 mm vertical adjustment:**  
with a 3 mm Allen key **b**.

- **-1,5 / +2,5 mm horizontal adjustment:**  
with a 8 mm Allen key **c**.




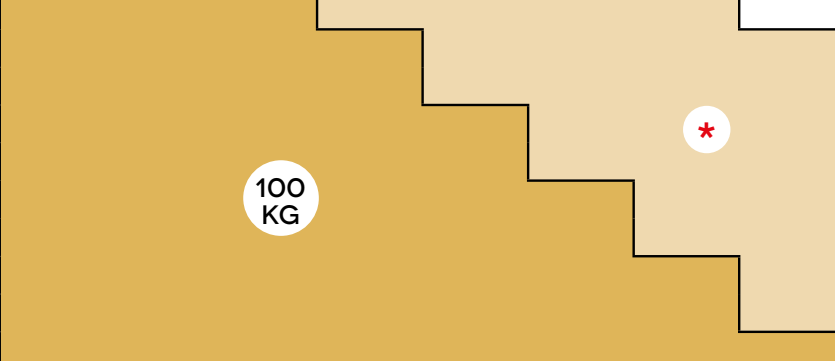
## Hinges application fields



**Note.** The maximum capacity with 2 hinges is 100 Kg, refer to the “Application fields” shown on this page.

In any case, it is possible to use a third hinge in a central position to reduce deformations. The third hinge will not affect the overall capacity.

## Application fields

									
		485	610	735	860	985	1110	1235	1360
1546 / 1670	1060								
1671 / 1795	1185								
1796 / 1920	1310								
1921 / 2045	1435								
2046 / 2170	1560								
2171 / 2295	1685								
2296 / 2420	1810								
2421 / 2545	1935								
2546 / 2670	2060								
2671 / 2795	2185								

\* Contact AGB Sales Force.

The technical sheets are available at [www.agb.it](http://www.agb.it).



# Accessories

# Accessories

93



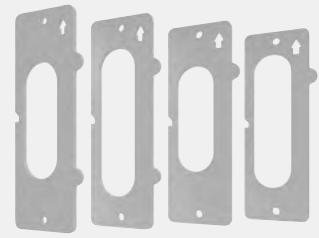
Beak

94



Jigs

95



Inserts

97



Cover for frame

98



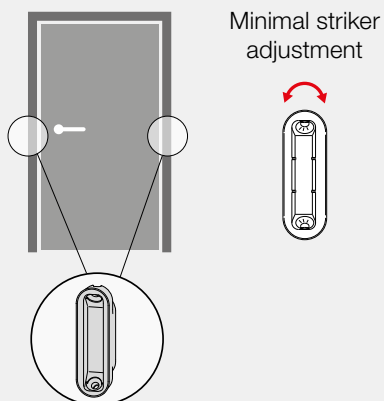
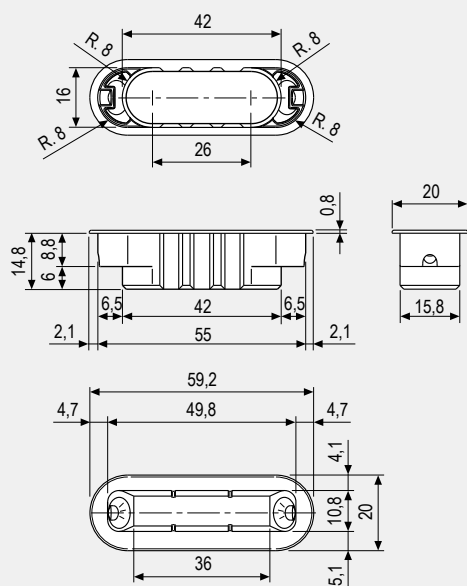
Frame cap

98

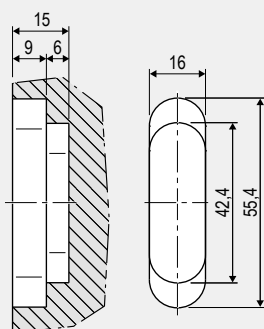


Height adjustment  
wedge

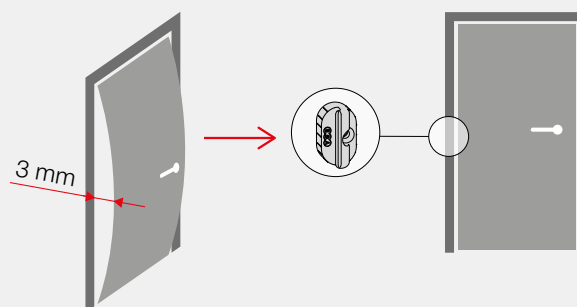
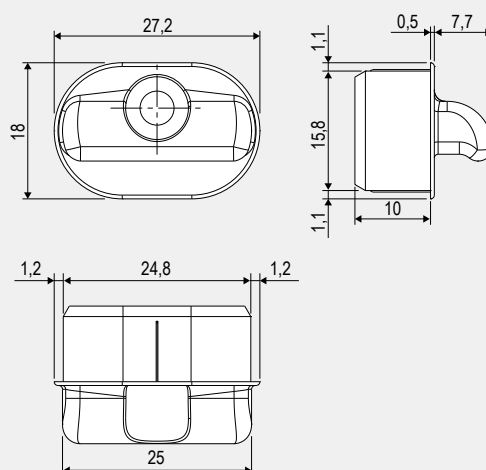
## FRAME PART



The frame milling of lock and hinge sides is the same.

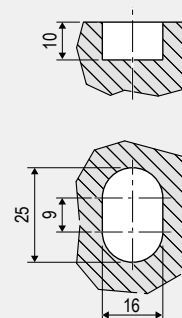


## SASH PART



The beak avoids sash deformations caused by humidity or high heights, regaining up to 3 mm.

The beak is compatible with:  
Minimal Plus, Alutop and Easy-Fix.

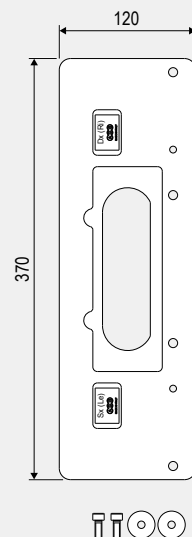


## TECHNICAL INFORMATION

Use	Compatibility with Eclipse models
To be coupled with hinges for flush doors.	Complete range

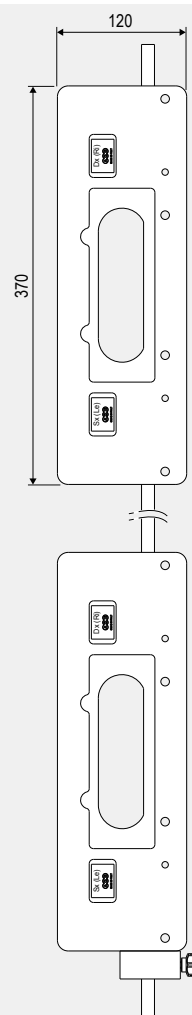


## Single jig without inserts for flush hinges

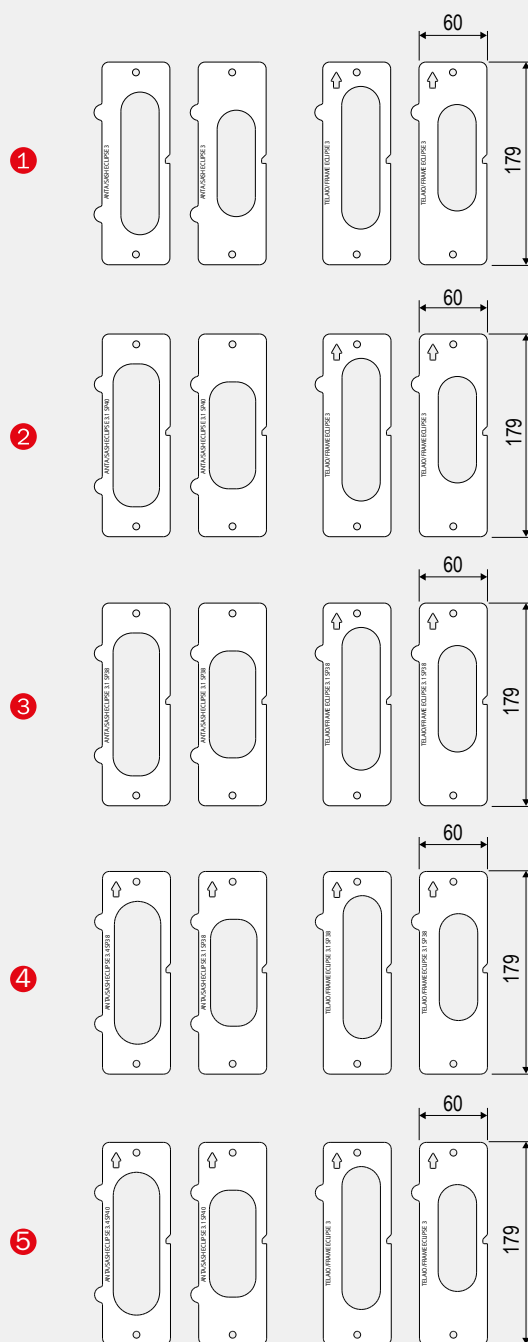


TECHNICAL INFORMATION			
Fastening	Compatibility with Eclipse models		
Check the assembly instructions available on the website <a href="http://www.agb.it">www.agb.it</a>	3.2	3.2 HD	3.2 HD Self
	3.4	3.4 HD	3.4 HD Self
	3.0	3.3	3.41
	3.1		

## Double jig without inserts for flush hinges

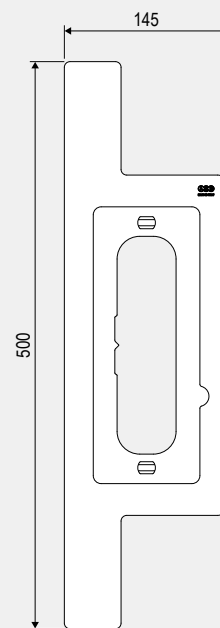
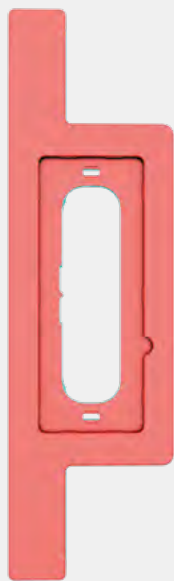


TECHNICAL INFORMATION			
Fastening	Compatibility with Eclipse models		
Check the assembly instructions available on the website <a href="http://www.agb.it">www.agb.it</a>	3.2	3.2 HD	3.2 HD Self
	3.4	3.4 HD	3.4 HD Self
	3.0	3.3	3.41
	3.1		



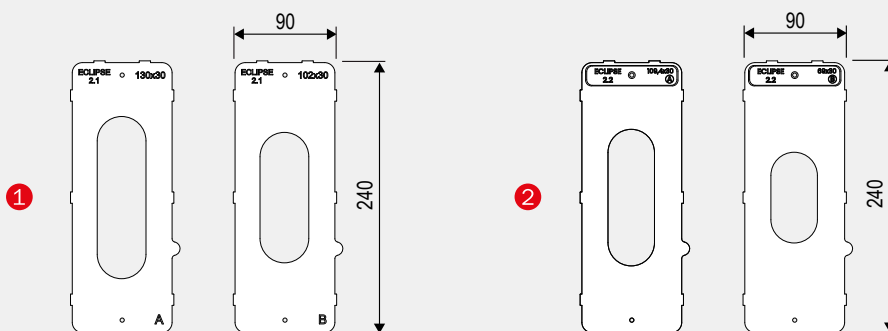
TECHNICAL INFORMATION		
Application	Fastening	Compatibility with Eclipse models
Installed to the jig.	Check the assembly instructions available on the website <a href="http://www.agb.it">www.agb.it</a>	① 3.0, 3.3, 3.2, 3.2 HD, 3.2 HD Self
		② 3.1, 3.41 (40 mm thickness)
		③ 3.1, 3.41 (38 mm thickness)
		④ 3.4, 3.4 HD, 3.4 HD Self (40 mm thickness)
		⑤ 3.4, 3.4 HD, 3.4 HD Self (38 mm thickness)

## Budget single jig without inserts for flush hinges



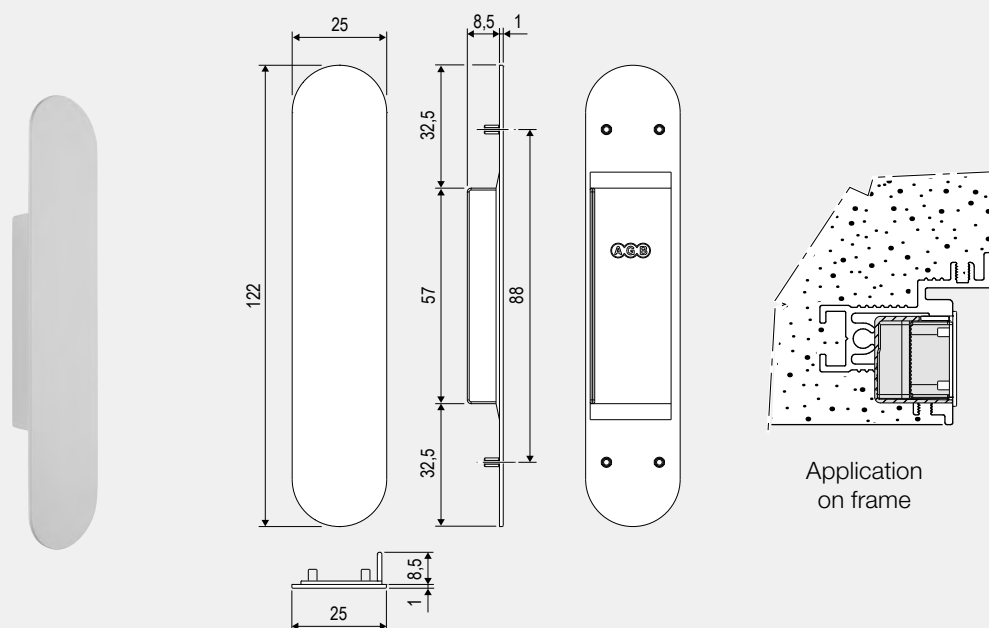
TECHNICAL INFORMATION		
Fastening	Compatibility with Eclipse models	
Check the assembly instructions available on the website <a href="http://www.agb.it">www.agb.it</a>	2.1	2.2

## Milling inserts for jig



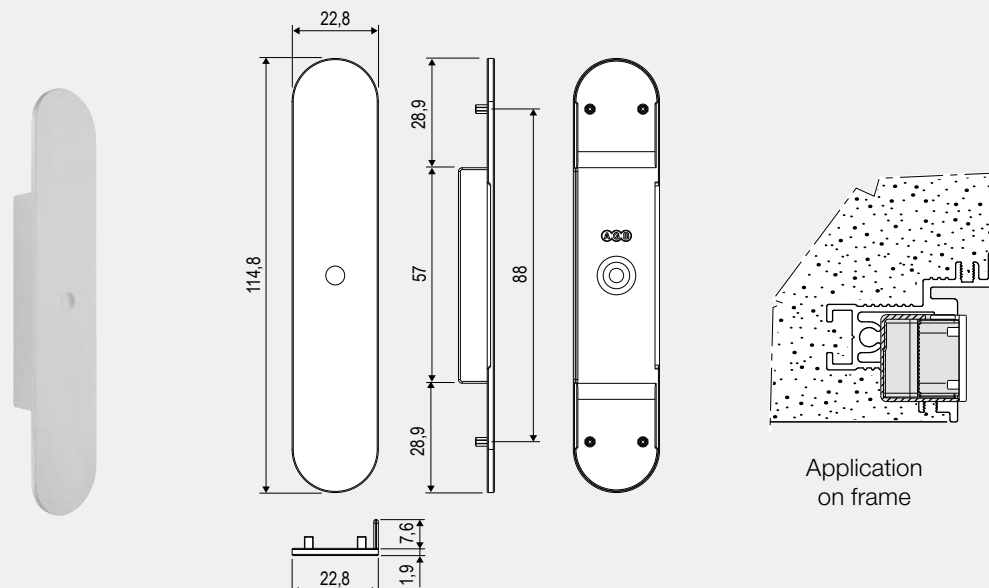
TECHNICAL INFORMATION			
Application	Fastening	Compatibility with Eclipse models	
Installed to the jig.	Check the assembly instructions available on the website <a href="http://www.agb.it">www.agb.it</a>	<b>1</b> 2.1	<b>2</b> 2.2

## Cover with cover-edges for frame



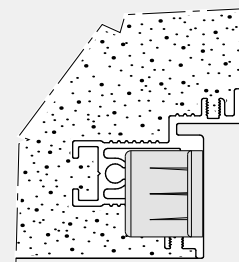
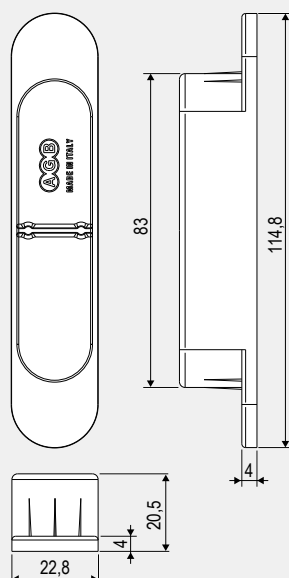
TECHNICAL INFORMATION			
Application	Fastening	Compatibility with Eclipse models	
For flush doors, it avoids dirt during wall installations of frame.	To be coupled to the frame side hinge body. Remove the cover starting from one side.	3.0	3.1

## Flush cover for frame



TECHNICAL INFORMATION				
Application	Fastening	Compatibility with Eclipse models		
For flush doors, it avoids dirt during wall installations of frame.	Coupled to the frame side hinge body for the cap removal, please operate on the central hole.	3.2	3.2 HD	3.2 HD Self
		3.4	3.4 HD	3.4 HD Self
		3.3		

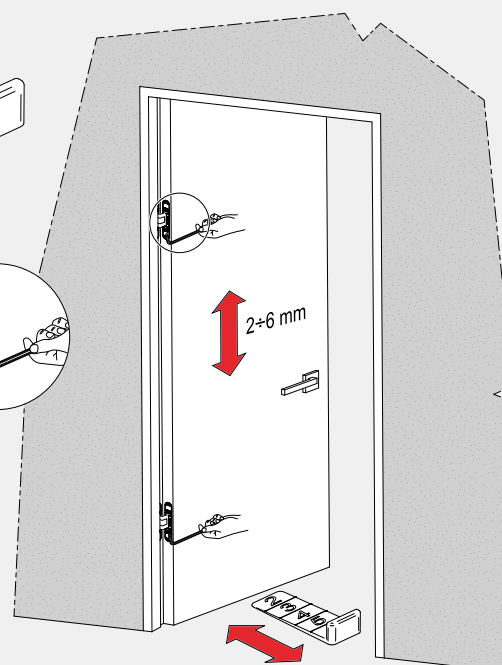
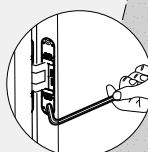
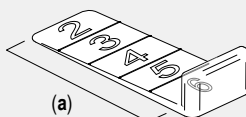
## Frame cap

Application  
on frame

## TECHNICAL INFORMATION

Application	Fastening	Compatibility with Eclipse models		
For flush doors, in order to avoid dirt inside the hinge milling, during the frame application.	With pressure. For removal, please use a clamp operating on the central part.	3.2	3.2 HD	3.2 HD Self
		3.4	3.4 HD	3.4 HD Self
		3.0	3.1	

## Height adjustment wedge



## TECHNICAL INFORMATION

Use	Compatibility with Eclipse models
During the vertical adjustment of Eclipse hinges, insert the wedge under the sash to lift it and reach the desired gap; the wedge supports the sash in adjustment, from 2 to 6 mm (a). <b>Note.</b> For further information about adjustment process and ranges, please consult the catalogue pages of the specific hinge on the website <a href="http://www.agb.it">www.agb.it</a>	Complete range





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