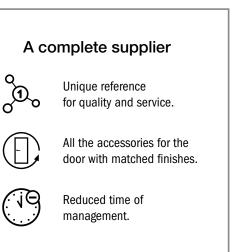


Invisible from outside, improves the door design

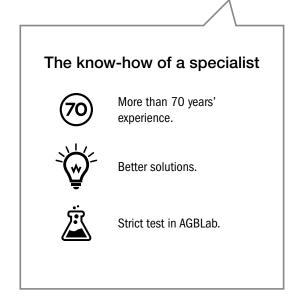
AGB introduces the ECLIPSE: the range of concealed hinges for internal doors combines design, technological functionalities and installation simplicity.

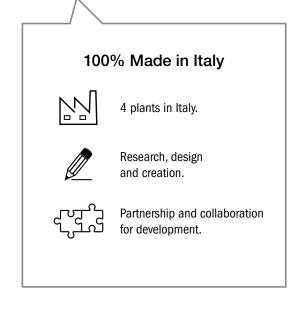
Concealed hinges for internal doors	5
High loading capacity concealed hinges	45
High loading capacity concealed hinges with built-in door closer	75
Accessories	91





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





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 nonhanded 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

















	TECHNICAL INFORMATION					APPLICATIONS			CERTIFICATES		
	kg	adjustment	opening	max.	covers	flush	flush	aluminium	EN 1634 fire and	ift ROSENHEIM EAD	CUL US
Eclipse				extension	applications	doors with rebate	doors without rebate	flush doors	smoke resistant doors	020001-01- 0405 EN 1935	LISTED
3.0	x3 = 60 kg $x2 = 40 kg$	3	180°	14 mm	•	•	•	•	60 minutes	•	60 minutes
3.2	$\int_{100}^{100} x3 = 60 \text{ kg}$ $\int_{100}^{100} x2 = 40 \text{ kg}$	3	180°	14 mm	•	•	•	•	60 minutes	•	60 minutes
3.3	x3 = 60 kg $x2 = 40 kg$	- 3	180°	14 mm	•	•	•	•	60 minutes		60 minutes
3.1	x3 = 60 kg $x2 = 40 kg$	- 3	180°	14 mm	•		•	•	60 minutes	•	60 minutes
3.41	x3 = 60 kg $x2 = 40 kg$	3	180°	14 mm	•		•	•			
3.4	x3 = 60 kg $x2 = 40 kg$	- 3	180°	14 mm	•		•	•	60 minutes	•	60 minutes
3.44	$\int_{\mathbb{R}} x3 = 60 \text{ kg}$ $\int_{\mathbb{R}} x2 = 40 \text{ kg}$	3	180°	14 mm	•		•	•			

For internal flush aluminium and wooden doors

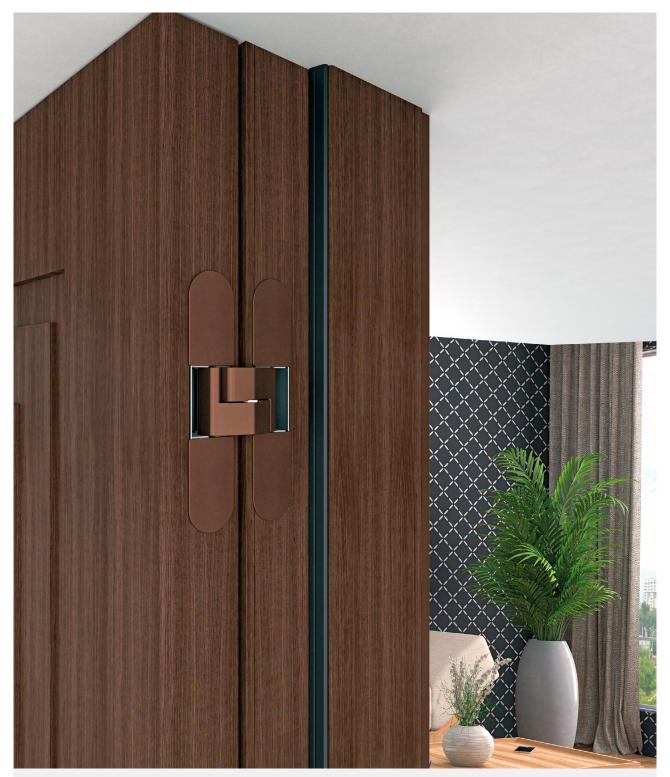
Concealed hinge for flush doors with or without rebate. Suitable for aluminium frames, thanks to the 4 mm thickness of hinge fastening. Completely invisible thanks to its reduced dimensions. Easy installation and covers with coverplate. Suitable for fire doors.













Ideal even for aluminium frames.



Invisible thanks to reduced dimensions.



For wood and aluminium doors.

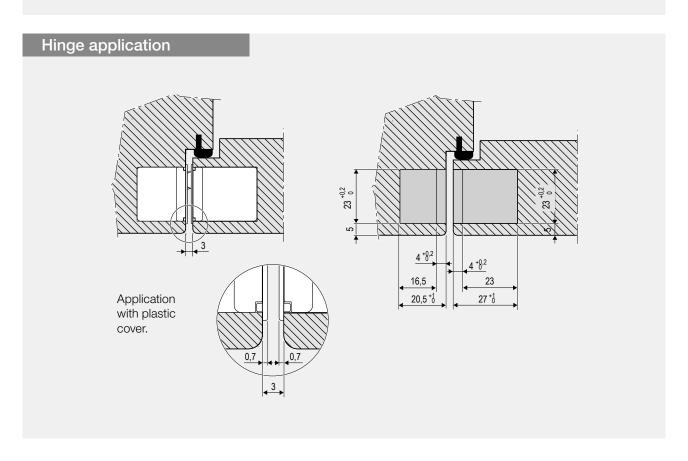


Three adjustments completely independent.



Covers with coverplate.

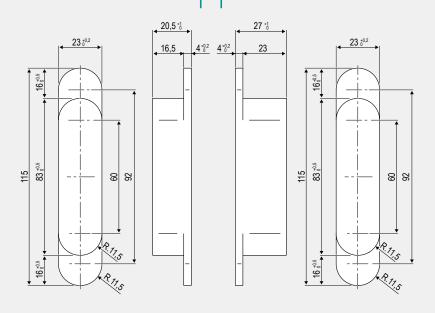
Hinge dimensions FRAME PART SASH PART 59,3 13,7 22,8 22,8 15,9 15,9 83 114,8 114,8 102 15,9 15,9 4 4 20,5 27 27 20,5 20,5 50,5 Hinge in closing 27 Apply the covers paying attention to the pins on the position. back. They have to be plugged into the dedicated grooves present in the hinge.



Drilling diagram

FRAME PART

SASH PART



Hinge adjustments

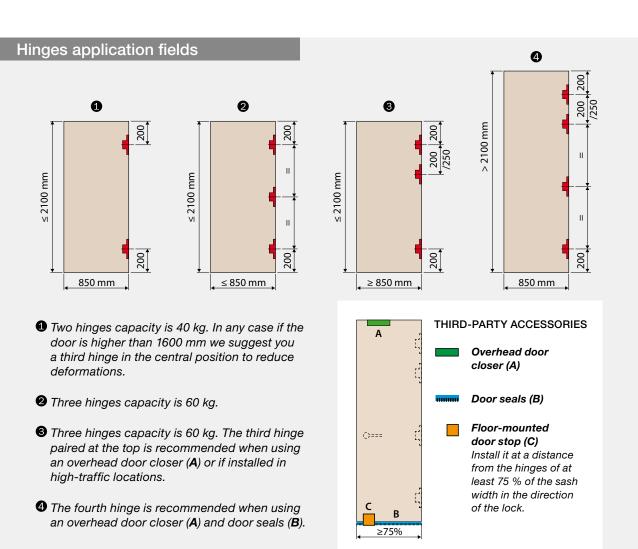


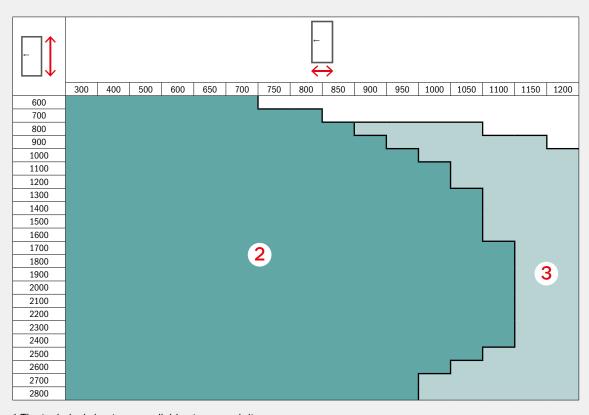
Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- ±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.

- 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







^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

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.













Ideal even for aluminium frames.



Invisible thanks to reduced dimensions.





For wood and aluminium doors.

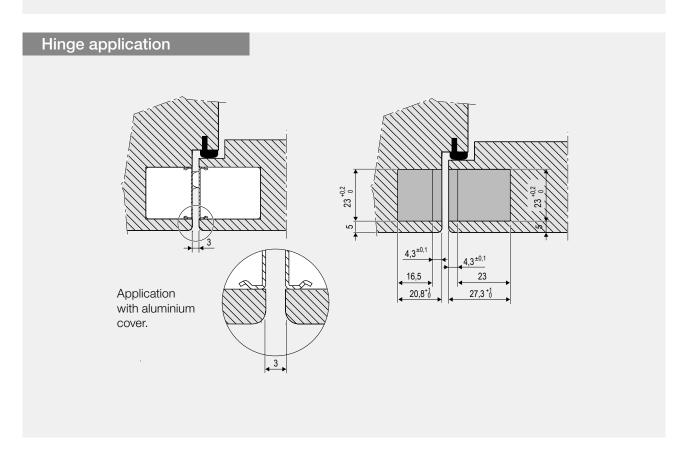


Three adjustments completely independent.



Metal or plastic flush covers.

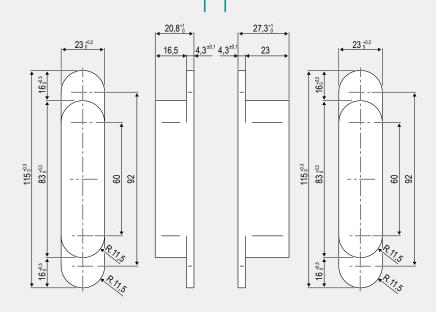
Hinge dimensions FRAME PART SASH PART 22,8 13,7 22,8 15,9 83 114,8 114,8 114,8 83 102 20,5 20,5 27 20,5 51,5 Apply the covers paying attention to the lateral wings. Hinge in closing 27 position. They have to be plugged into the dedicated grooves present in the hinge.



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:

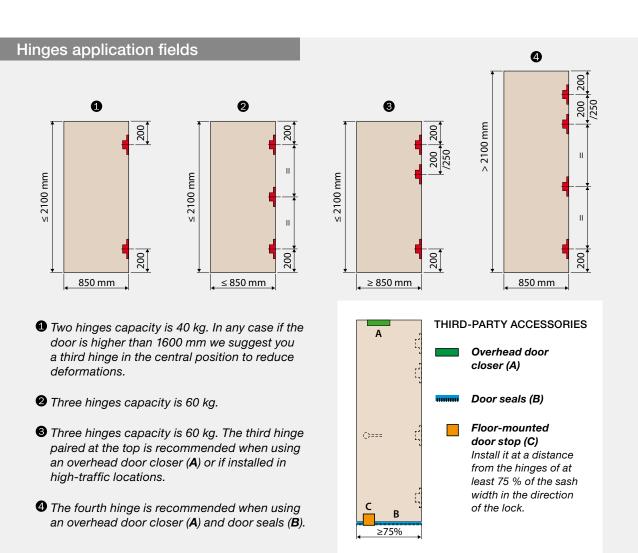
loosen the screws using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01. After this operation fasten the screws.

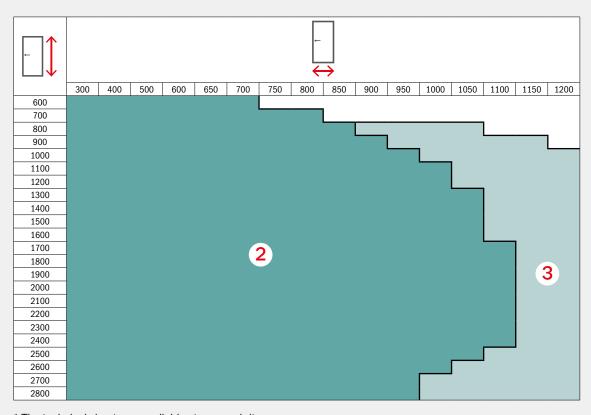
• ±1,5 mm horizontal adjustment:

move the screws 3.

- 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







^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

Hinge for flush doors with or without rebate and reduced frame

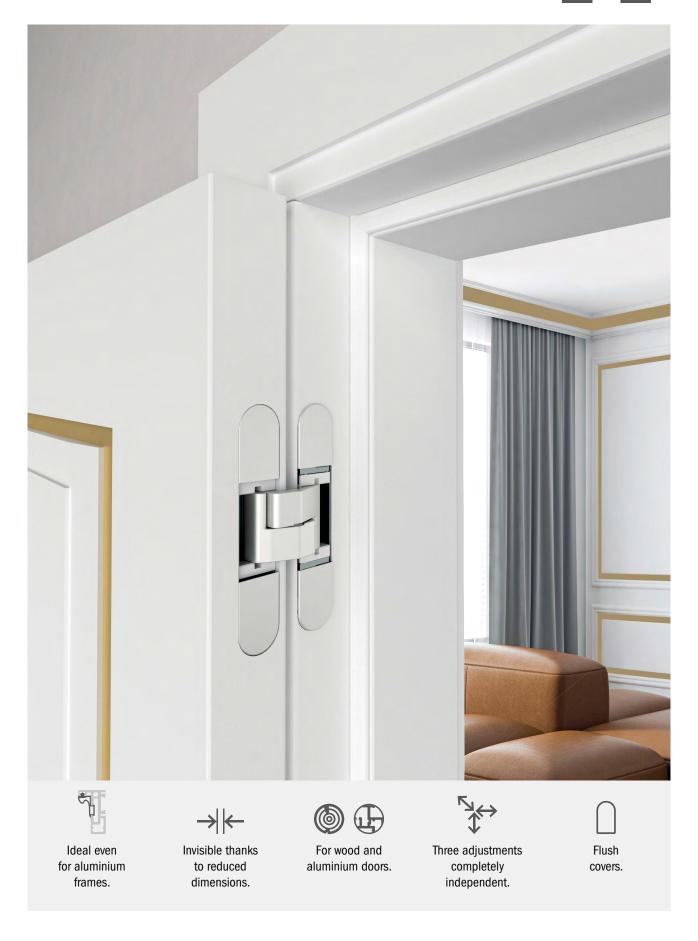




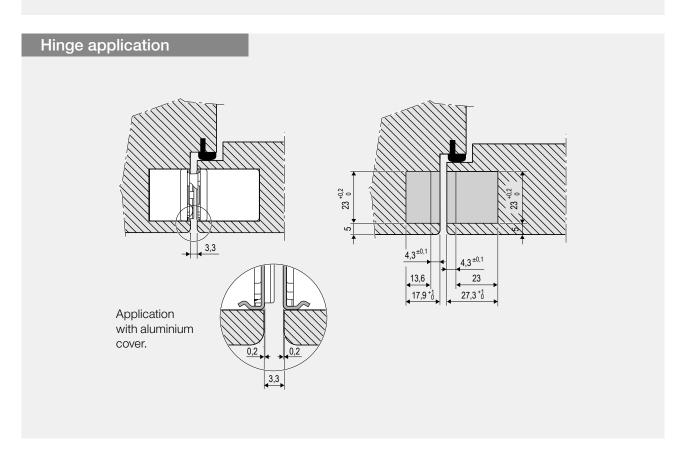




Eclipse 3.3 is the concealed hinge with a reduced milling depth up to 17,6 mm in order to have doors with minimal design. The hinge is particularly suitable for renovations.



Hinge dimensions FRAME PART SASH PART 59,3 13,7 22,8 22,8 Short Long 114,8 114,8 102 83 cover cover 15,9 15,9 17,6 27 17,6 48,3 Hinges in closing Apply the covers paying attention to the lateral wings. 27 position. They have to be plugged into the dedicated grooves present in the hinge.

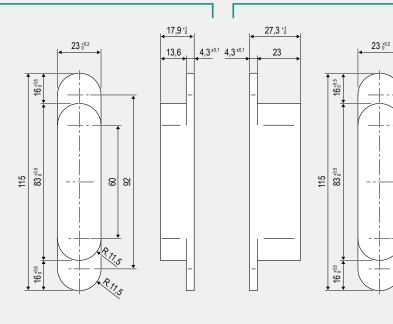


Drilling diagram

FRAME PART

SASH PART

8 8



Hinge adjustments

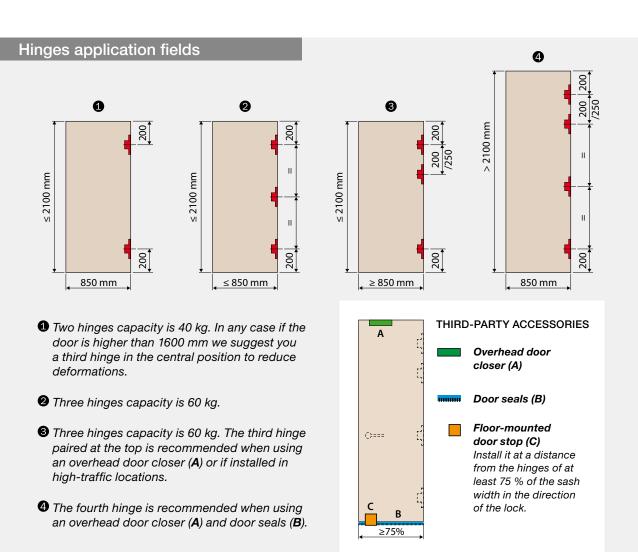


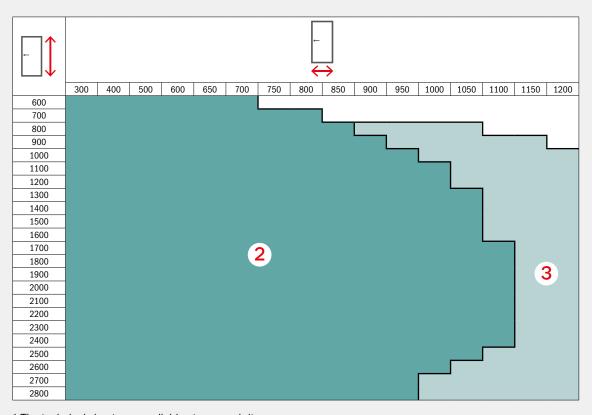
Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- ±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.
- +2/-1 mm horizontal adjustment:
- move the screws 3.

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







^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

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

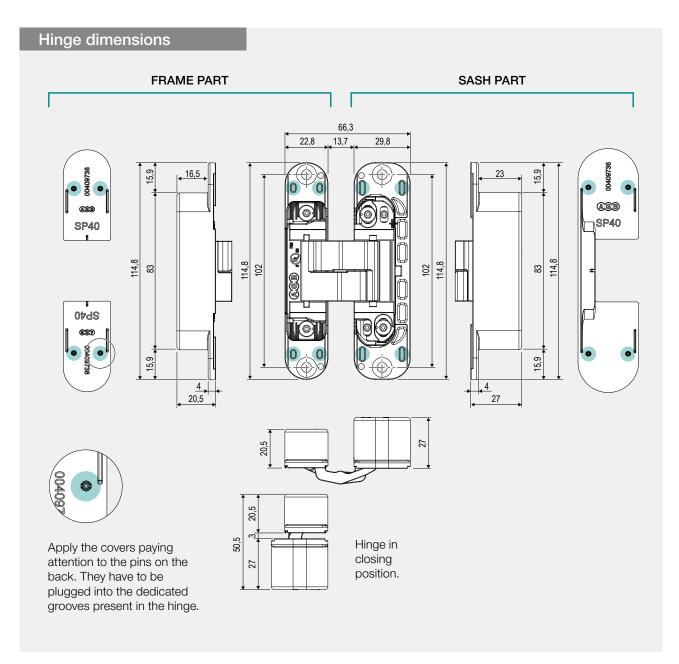
For wood and aluminium doors.

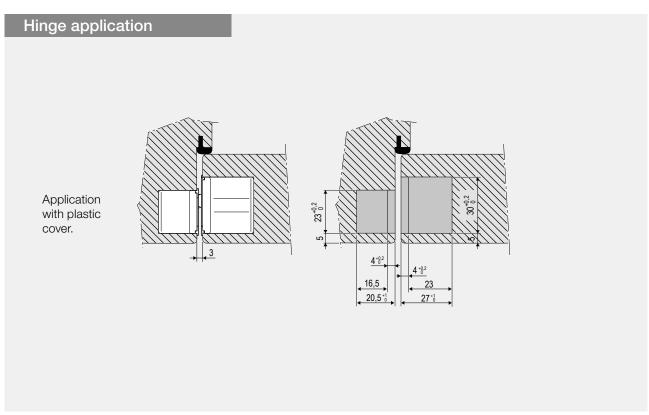


Three adjustments completely independent.



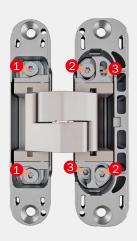
Flush covers with coverplate.





Drilling diagram FRAME PART SASH PART 20,5 *1 30 +0,2 $23^{+0,2}_{0}$ 16,5 4*0.2 23 115 83 ^{-0,5} 83 0,5 115 92 8 8 92 16 0,5 16 0.5

Hinge adjustments



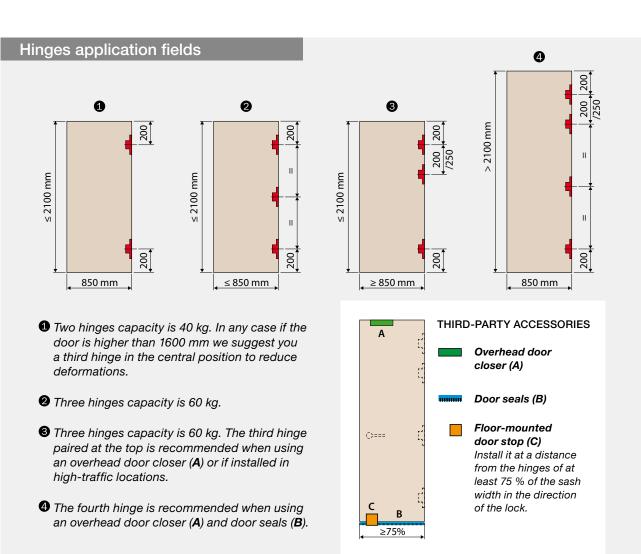
Please adjust the hinges with a 3 mm Allen key, as indicated here below:

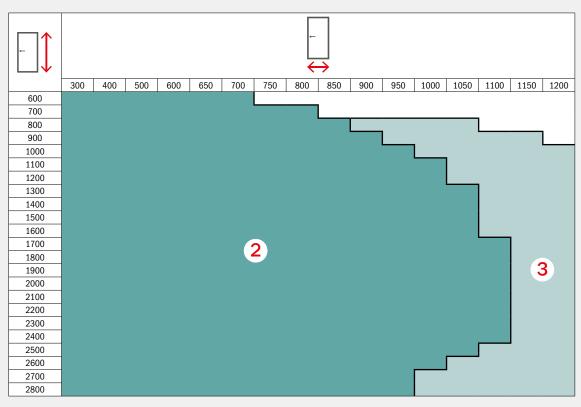
11,5 7 11,5

- ±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 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.

- 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







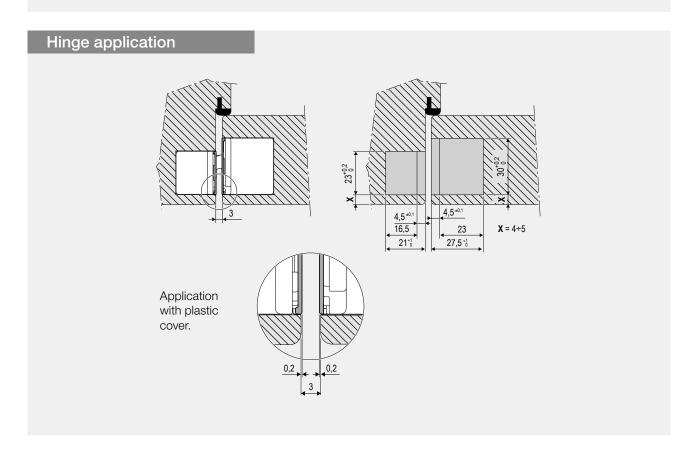
^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

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.



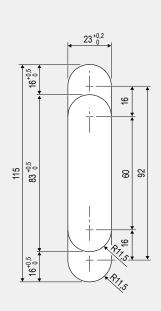
Hinge dimensions FRAME PART SASH PART 22,8 13,7 29,8 11,4 11,4 14,9 14,9 3.41 15,9 15,9 114,8 114,8 83 15,9 15,9 20,5 27 20,5 51,5 Hinge in Apply the covers paying attention to the pins on the closing 27 position. back. They have to be plugged into the dedicated grooves present in the hinge.

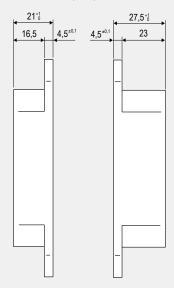


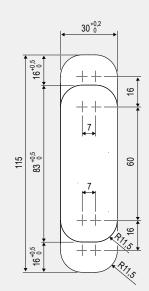
Drilling diagram

FRAME PART

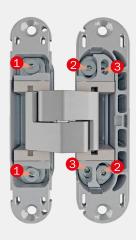
SASH PART







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.

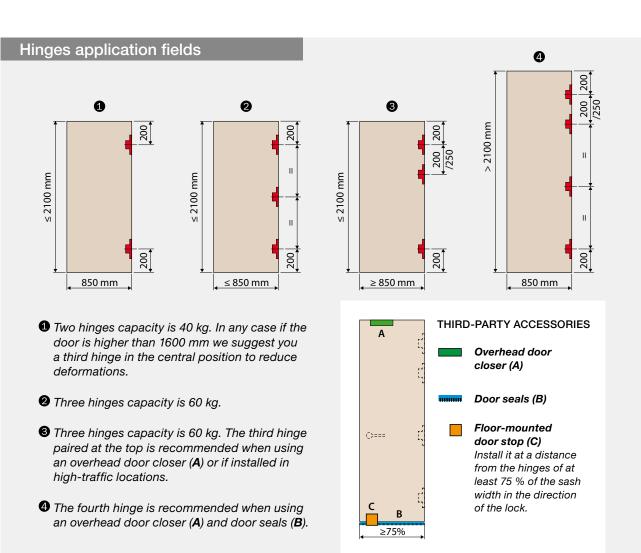
• ±2 mm vertical adjustment:

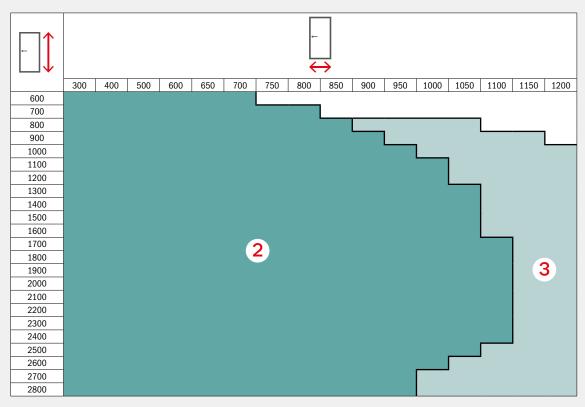
loosen the screws using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01. After this operation fasten the screws.

• ±1,5 mm horizontal adjustment:

move the screws 3.







^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

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.

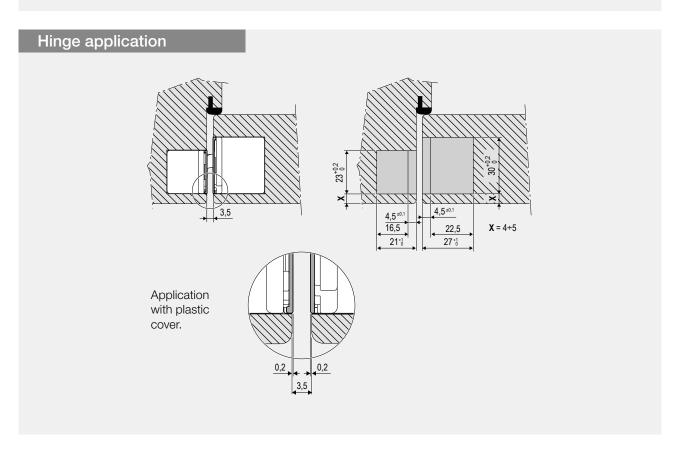


Three adjustments completely independent.



Flush covers.

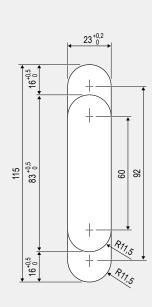
Hinge dimensions FRAME PART SASH PART 66,3 22,8 29,8 13,7 15,9 15,9 22,5 114,8 114,8 102 83 15,9 15,9 20,5 26,5 20,5 4,5 Hinge in Apply the covers paying attention to the pins on the 26,5 closing position. back. They have to be plugged into the dedicated grooves present in the hinge.

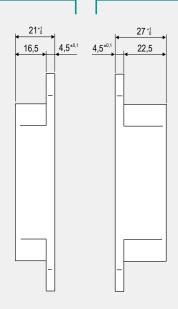


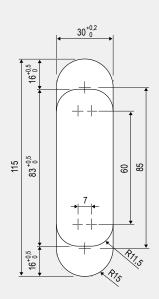
Drilling diagram

FRAME PART

SASH PART







Hinge adjustments



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

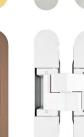
- ±1 mm pressure adjustment:
- loosen the screws **1** and move the hinge body. After this operation fasten the screws.
- ±2 mm vertical adjustment:
- loosen the screws 2 using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01. After this operation fasten the screws.
-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

- 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



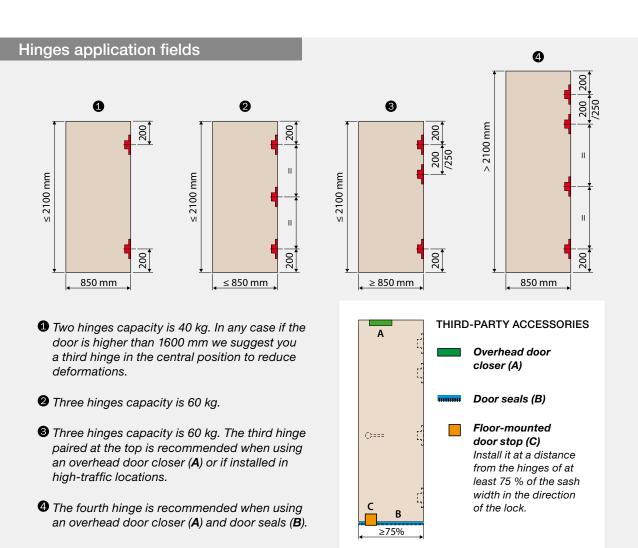


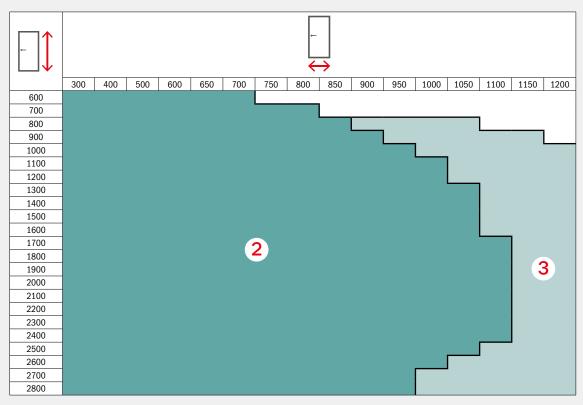








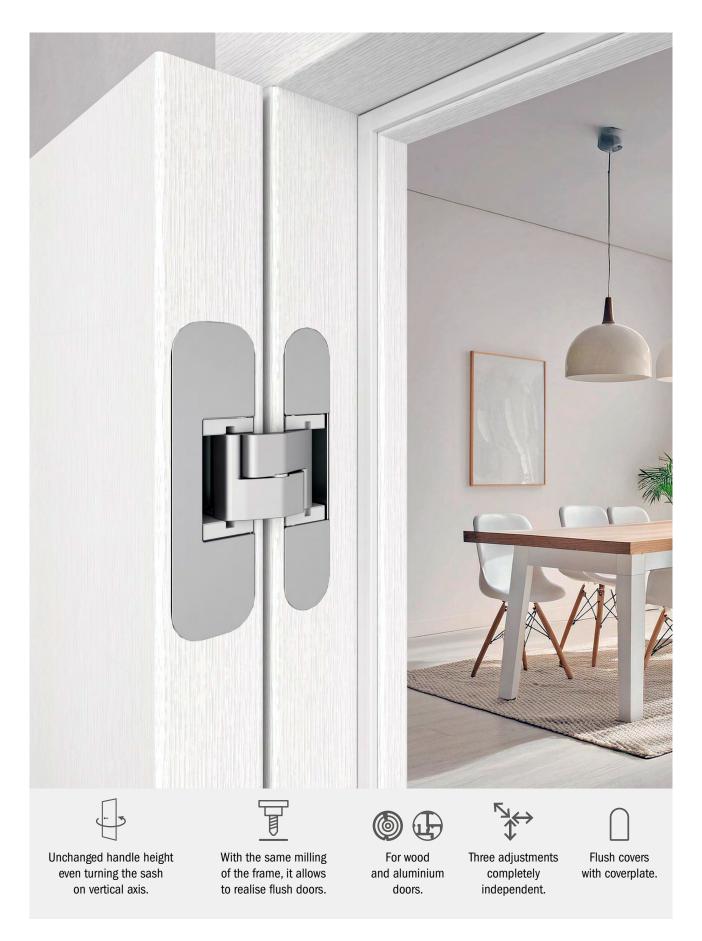


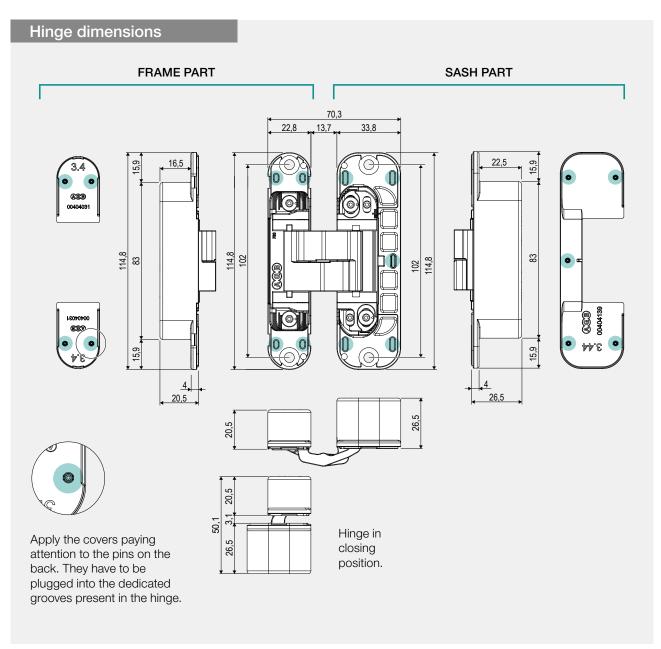


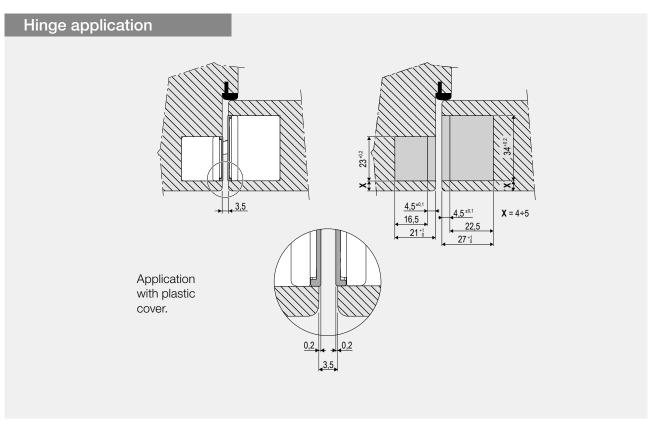
^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

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.



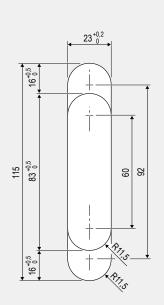


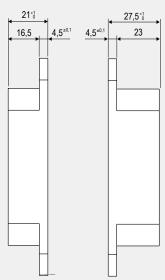


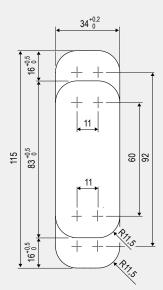
Drilling diagram

FRAME PART

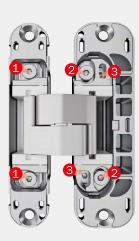
SASH PART







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 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.

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



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



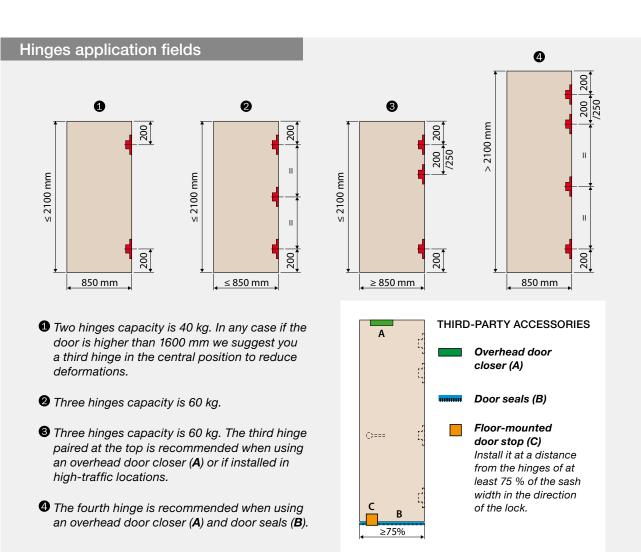


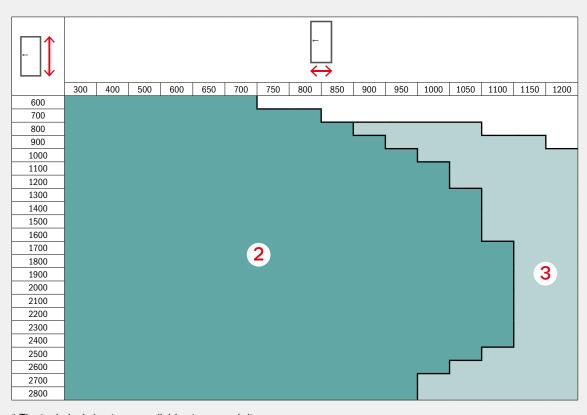












^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 15 kg/m².

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

114.8 mm Hinge height: Aluminium Hinge material: 180° Opening angle:

40 kg max. door leaf weight:

unrebated doors Range of application:

Maintenance and

installation

According to maintenance and installation instruction

from hardware manufacturer.

Special features -/-

Classification according to EAD 020001-01-0405: 2017

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

ift Rosenheim 28.03.2018

Translation dated 11.02.2022

Erwin Heimbuchner Operating Testing Officer Florian Luge Deputy Head of Testing Department Security/Safety Testing Security/Safety Testing

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

Basis EAD 020001-01-0405 : 2017

ROSENHEIM

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.

ift Rosenheim GmbH Theodor-Gietl-Str. 7-9 D-83026 Rosenheim

Contact Phone: +49 8031 261-0 Fax: +49 8031 261-290 www.ift-rosenheim.de

Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021







Eclipse 3.0





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

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

6026531 Your ref.

Your letter dated Our ref

mue

Phone +49 (8031) 261-2463 E-Mail muders@ift-rosenheim.de

16 12 2019 Nuremberg

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

"X 544" is a hinged doorset made from timber and derived timber products, classified El₂60. 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





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

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

6026531 Your ref.

Your letter dated

Our ref.

mue

Phone +49 (8031) 261-2463 muders@ift-rosenheim.de E-Mail

17 12 2019 Nuremberg

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 El₂60. 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

Muchen



Eclipse 3.3





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

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

6026531 Your ref.

Your letter dated

Our ref.

mue

Phone +49 (8031) 261-2463 muders@ift-rosenheim.de E-Mail

17 12 2019 Nuremberg

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 El₂60. 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) **ROSENHEIM**

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)

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

Design sheets in Annex 1

Construction product

Product description

Multi-axis concealed hinge

ECLIPSE 3.1

Hinge height: 115 mm Aluminium Hinge material: 180° Opening angle: 40 kg max. door leaf weight:

Material

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

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.

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)

ift Rosenheim 26.06.2018

Translation dated 05.10.2021

sianed 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.

ift Rosenheim GmbH

Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021





Eclipse 3.1





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

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

6026531 Your ref.

Your letter dated Our ref.

mue

Phone +49 (8031) 261-2463 muders@ift-rosenheim.de E-Mail

17 12 2019 Nuremberg

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 El₂60. 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





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 El_260 . 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

Muden

Dr. Jochen Peichl Prof. Ulrich Sieberath



289

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





CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference 20190930-R39790 R39790-20190917 2019-SEPTEMBER-30

Issued to:

Issue Date

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 ontact a local UL Customer Service Representative at http://ul.com/aboutui/locations/



Page 1 of 2

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





CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference

Issue Date

20190930-R39790 R39790-20190917 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.

Barrelle

Bruce Mahrenholz, Director North American Certification Program

UL LLC

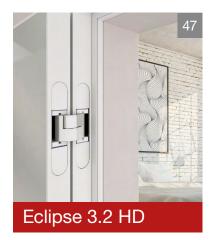
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/



Page 2 of 2

High loading capacity concealed hinges

High loading capacity concealed hinges

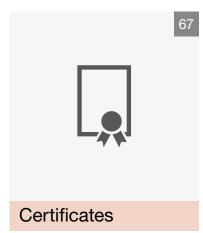












	TECHNICAL INFORMATION					APPLICATIONS			CERTIFICATES		
	_kg\	***							EN 1634	ift ROSENHEIM	C UL US
Eclipse	capacity	adjustment	opening	max. extension	covers applications	flush doors with rebate		aluminium flush doors	fire and smoke resistant doors	EAD 020001-01- 0405 EN 1935	UL LISTED
3.2 HD	x3 = 80 kg x2 = 60 kg		180°	14 mm	•	•	•	•	60 minutes		60 minutes
3.4 HD	x3 = 80 kg $x2 = 60 kg$	- 3	180°	14 mm	•		•	•	60 minutes		60 minutes
2.1	x3 = 80 kg $x2 = 60 kg$		180°	19 mm	•		•	•	60 minutes		
2.2	100 m/s = 80 kg $100 m/s = 80 kg$ $100 m/s = 80 kg$	2	180°	19 mm	•		•				
5.0	x3 = 130 kg $x2 = 100 kg$	3	180°	18 mm			•		44 minutes		

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.



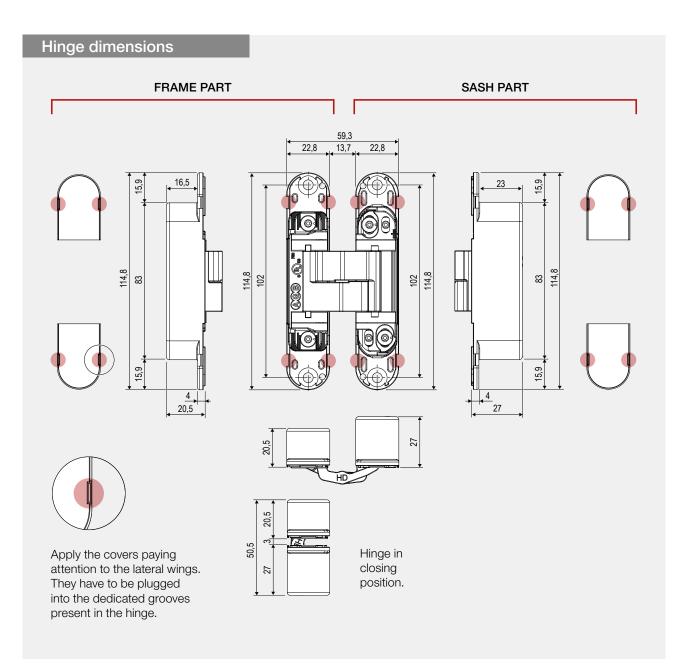
For wood and aluminium doors.

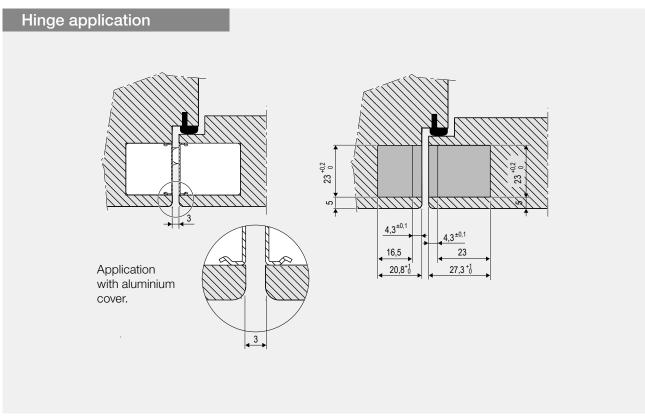


Three adjustments completely independent.



Flush covers.

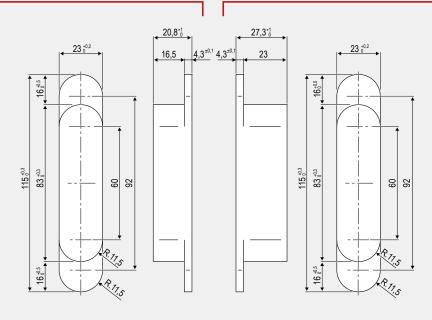




Drilling diagram

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 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.

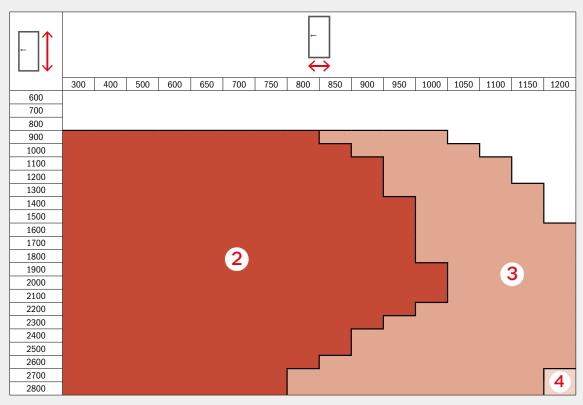
Finishes

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



Hinges application fields 4 0 0 8 200 > 2100 mm $\leq 2100 \text{ mm}$ < 2100 mm < 2100 mm 850 mm 850 mm ≤ 850 mm ≥ 850 mm THIRD-PARTY ACCESSORIES 1 Two hinges capacity is 60 kg. In any case if the door is higher than 1600 mm we suggest you Overhead door a third hinge in the central position to reduce closer (A) deformations. Door seals (B) 2 Three hinges capacity is 80 kg. Floor-mounted 3 Three hinges capacity is 80 kg. The third hinge ()=== door stop (C) paired at the top is recommended when using Install it at a distance an overhead door closer (A) or if installed in from the hinges of at high-traffic locations. least 75 % of the sash width in the direction 4 The fourth hinge is recommended when using of the lock. an overhead door closer (A) and door seals (B).

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. Doors with specific gravity of 25 kg/m².

Eclipse 3.4 HD

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

EN 1634

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.





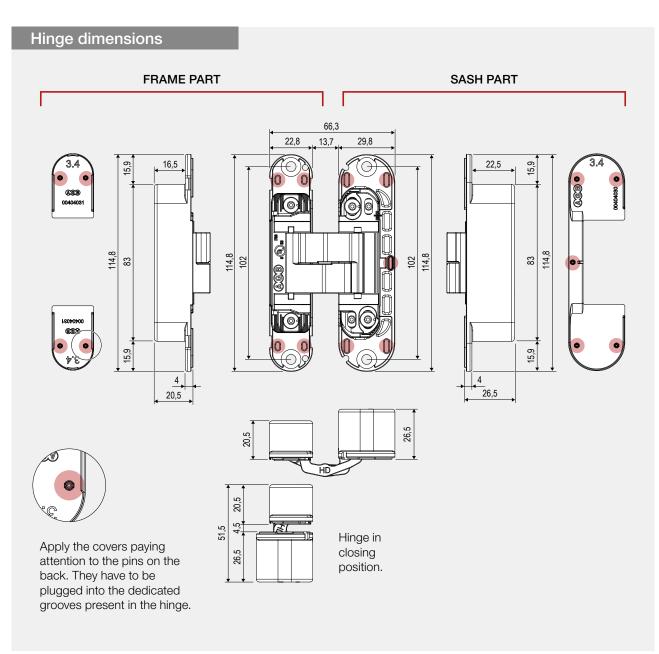
For wood and aluminium doors.

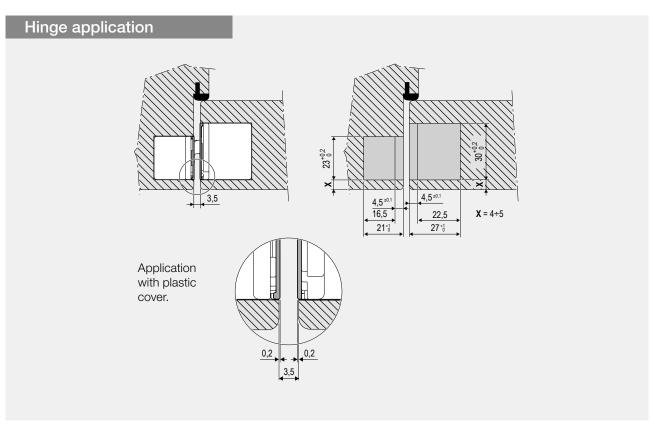


Three adjustments completely independent.



Flush covers.





Drilling diagram

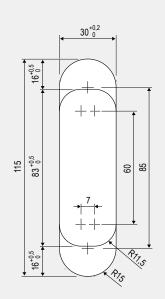
FRAME PART

23 +0,2

8 8

21⁻¹/₀ 4,5^{-0.1} 4,5^{-0.1} 4,5^{-0.1} 22,5

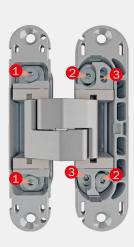
SASH PART



Hinge adjustments

115 83 ^{+0,5}

16 0.5



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 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





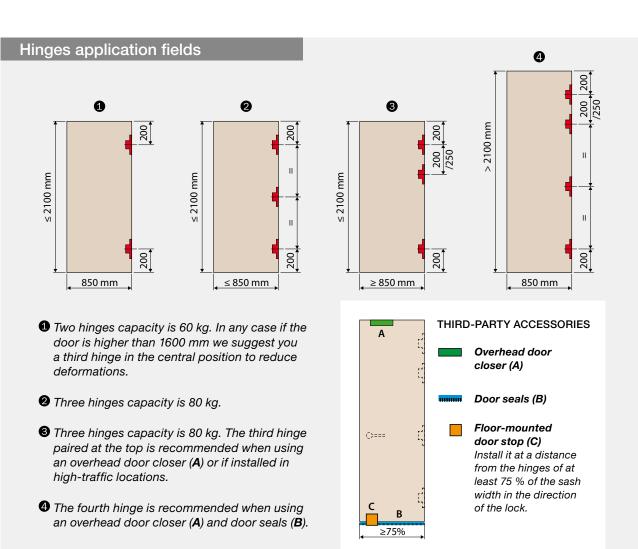




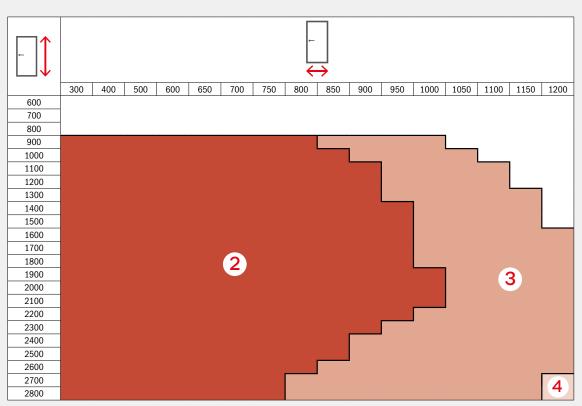


- 42. Light bronze plated
- 91. White
- 93. Matt black





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. Doors with specific gravity of 25 kg/m².

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.



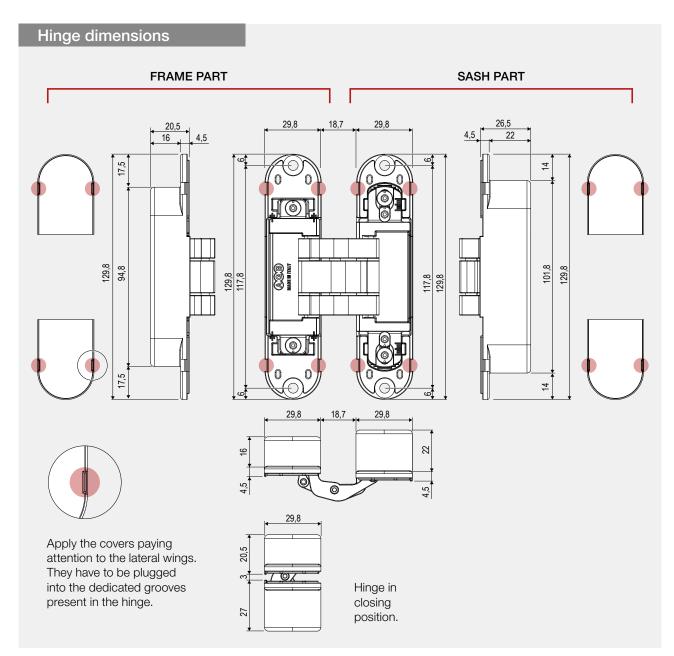
For wood and aluminium doors.



Ideal for sashes covered with glass.



Flush metal covers.

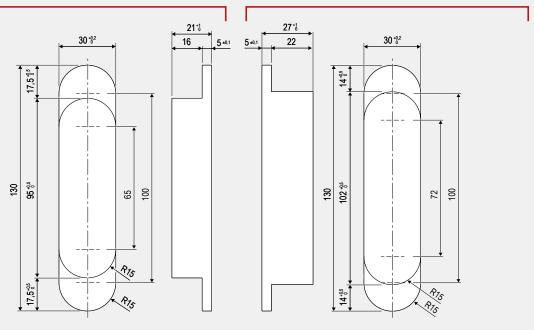


Application with metal cover.

Drilling diagram

FRAME PART

SASH PART



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 **1** and move the hinge body. After this operation fasten the screws.

• ±2 mm vertical adjustment:

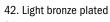
loosen the screws 2 using a screwdriver or a wedge which is suitable for Eclipse hinges, art. E30200.89.01. After this operation fasten the screws.

• ±1,5 mm horizontal adjustment:

move the screws 3.

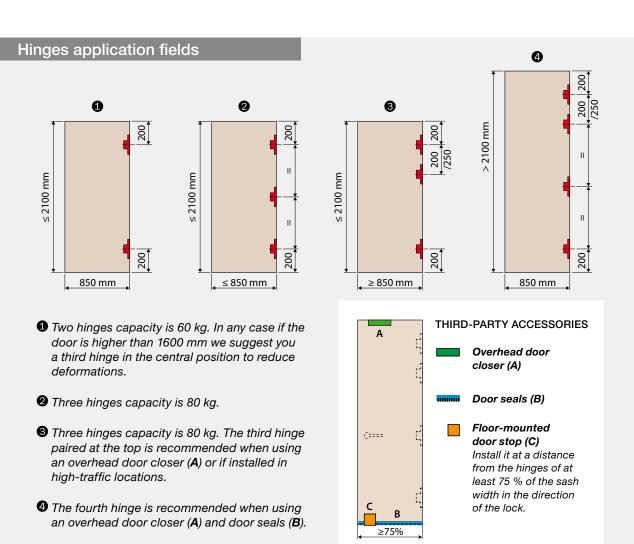
Finishes

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

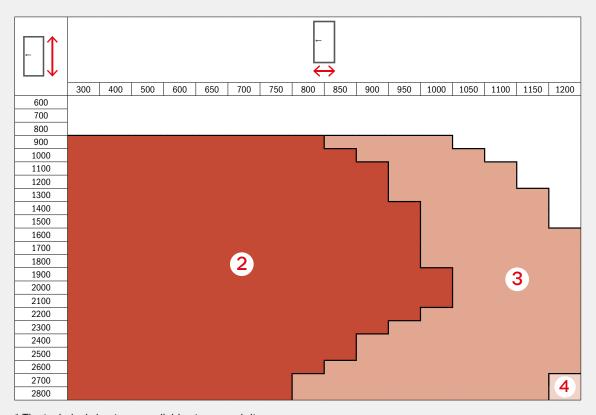


- 91. White
- 93. Matt black





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. Doors with specific gravity of 25 kg/m².

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.



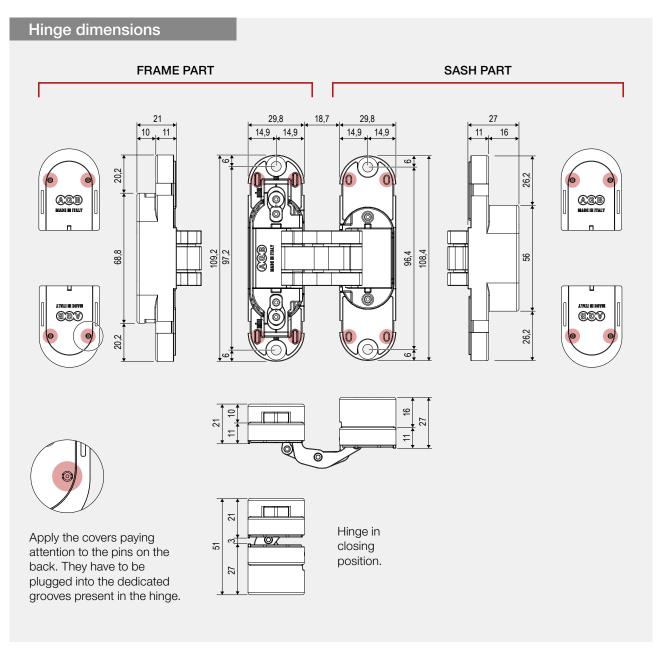
For wood doors.

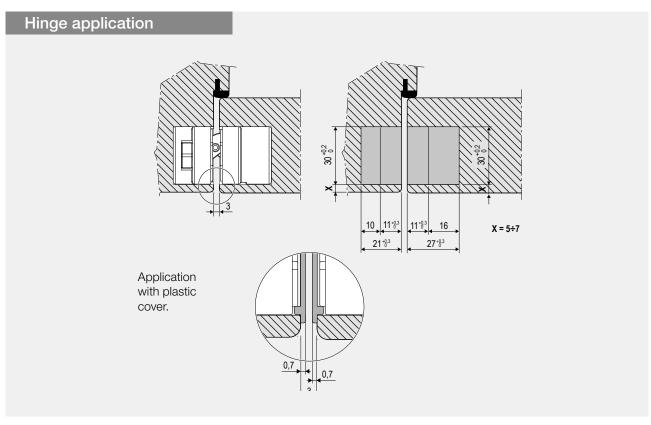


Three adjustments completely independent.



Covers with coverplate.



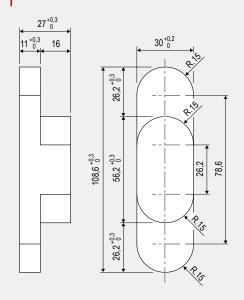


Drilling diagram

FRAME PART

2007 30,03 30,03 10,11,03 10,11,03 10,11,03 10,11,03 10,11,03 10,11,03 10,11,03 10,11,03 10,11,03 10,11,03

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 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.

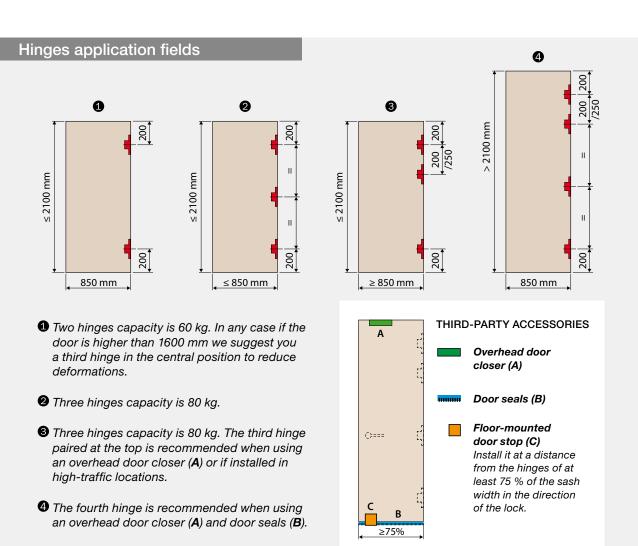
Finishes

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

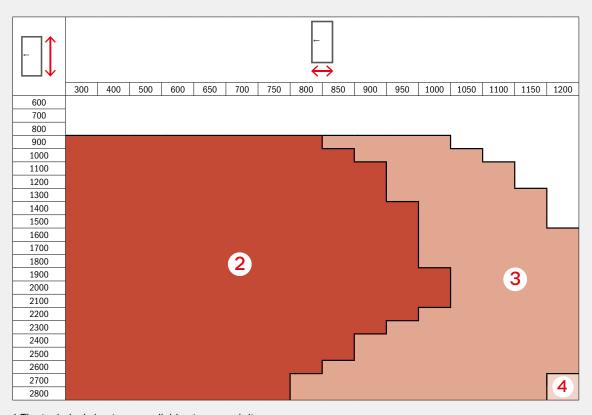


93. Matt black





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. Doors with specific gravity of 25 kg/m².

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.





Up to 100 kg of loading capacity with two hinges.



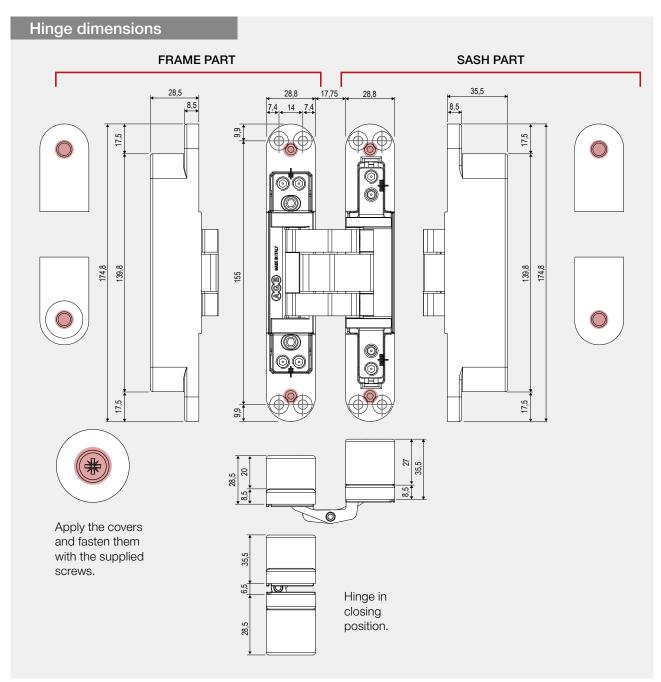
Three micrometric and separate adjustments. Simple management of heavy sash.

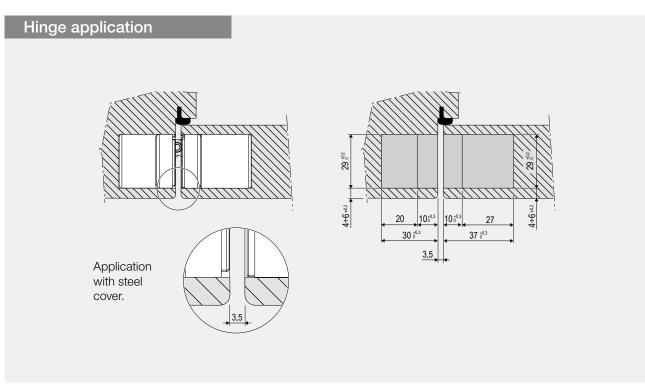


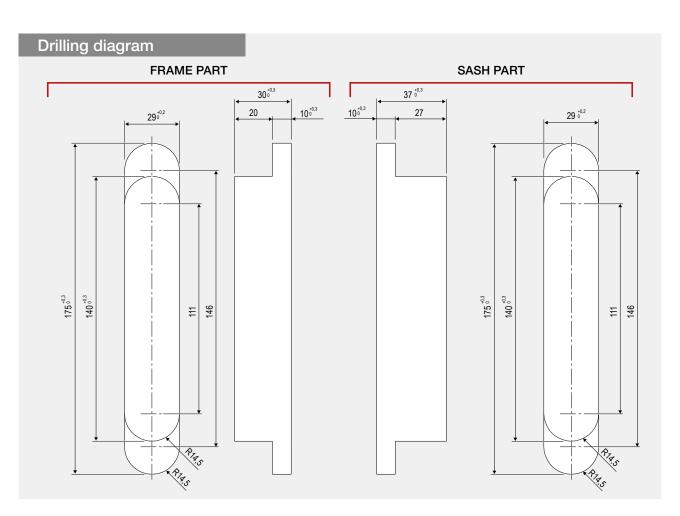
Perfect together with door closer or door stopper.



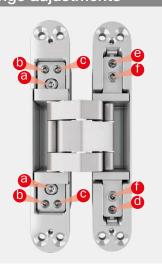
Flush steel covers.







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.

• ±1 mm pressure adjustment:

PRESSURE INCREASE:

loosen ②; screw ② and unscrew ③; fasten ③.

PRESSURE DECREASED:

loosen ③; unscrew ② and screw ④; fasten ④.

• ±3 mm vertical adjustment:

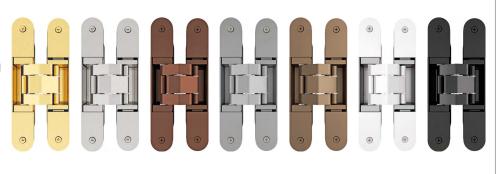
loosen **©**; raise (screw) or lower (unscrew) **©**; fasten **©**.

• ±3 mm horizontal adjustment:

increase (unscrew) or decrease (screw) .

Finishes

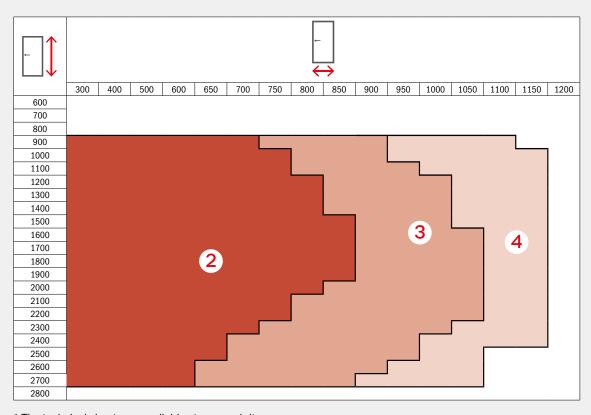
- 03. Brass plated PVD
- 06. Nickel plated PVD
- 22. Enamelled bronze plated
- 34. Matt chromium plated
- 42. Light bronze plated
- 91. White
- 93. Matt black



Hinges application fields 4 0 0 8 200 > 2100 mm $\leq 2100 \text{ mm}$ < 2100 mm < 2100 mm 850 mm 850 mm ≤ 850 mm ≥ 850 mm THIRD-PARTY ACCESSORIES 1 Two hinges capacity is 100 kg. In any case if the door is higher than 1600 mm we suggest you Overhead door a third hinge in the central position to reduce closer (A) deformations. Door seals (B) 2 Three hinges capacity is 130 kg. Floor-mounted 3 Three hinges capacity is 130 kg. The third hinge ()=== door stop (C) paired at the top is recommended when using Install it at a distance an overhead door closer (A) or if installed in from the hinges of at high-traffic locations. least 75 % of the sash width in the direction 4 The fourth hinge is recommended when using of the lock.

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

an overhead door closer (A) and door seals (B).



^{*} The technical sheets are available at www.agb.it. Doors with specific gravity of 60 kg/m².

Eclipse 3.2 HD







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 muders@ift-rosenheim.de E-Mail

17 12 2019 Nuremberg

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 El₂60. 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

Recognized Body:



289

Eclipse 3.4 HD







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

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

6026531 Your ref.

Your letter dated

Our ref. mue

Phone +49 (8031) 261-2463 muders@ift-rosenheim.de E-Mail

17 12 2019 Nuremberg

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 El₂60. 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

Muchen





Eclipse 3.2 HD, Eclipse 3.4 HD





CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference 20190930-R39790 R39790-20190917 2019-SEPTEMBER-30

Issued to:

Issue Date

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/aboutui/locations/



Eclipse 3.2 HD, Eclipse 3.4 HD





CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20190930-R39790 R39790-20190917 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.



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/



Page 2 of 2

Certificates

Eclipse 2.1



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 Itd.

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/

May

21.07.2023

Certificates

Eclipse 5.0









LAB Nº 0021 L

oratorio autorizzato ai sensi del Decreto del Ministero dell'Interno 26 marzo 1985

RAPPORTO DI PROVA N. 387470/4165FR

Oggetto*

porta di legno, a un'anta su cardini, ad azione semplice, senza finestratura denominata "ESSENZAZERO 30"

Attività



determinazione della resistenza al fuoco secondo le norme UNI EN 1634-1:2018/EC 1-2018 ed UNI EN 1363-1:2020

Cerniera ad incasso in acciaio modello "Eclipse 5.0" della ditta AGB Alban Giacomo S.p.A. - Via Alcide De Gasperi, 75 - 36060 Romano d'Ezzelino (VI) - Italia

Anta	larghezza esterna	914 mm	
	altezza esterna	2401 mm	
	larghezza della battuta	894 mm	
	altezza della battuta	2391 mm	
	spessore	60 mm	

Risultati

Integrità	44 min
Isolamento I ₂	44 min**
Isolamento I ₁	44 min**

(**) in concomitanza con la perdita di integrità secondo il paragrafo 11.4.2 "Insulation versus integrity" ("Isolamento rispetto all'integrità") della norma UNI EN 1363-1:2020.

(*) secondo le dichiarazioni del cliente.

Bellaria-Igea Marina - Italia, 6 ottobre 2021

(Dott. Arch. Sara Lorenza Gordano)
L'AMMINISTRATORE DEL EURATO Arch Sara (Lorenza Giordano

89195

Provenienza dell'oggetto: campionato da Istituto Giordano secondo i criteri definiti nel verbale di prelievo del 21 luglio 2021 e fornito dal cliente (campionamento non accreditato da ACCREDIA)

Identificazione dell'oggetto in accettazione: 2021/2354/A del 3 agosto 2021

2021/2354/C del 3 agosto 2021

Data dell'attività:

dal 12 agosto 2021 al 31 agosto 2021

Luogo dell'attività: Istituto Giordano S.p.A. - Blocco 7 - Via Giovanni Verga, 6 - 47043 Gatteo (FC) - Italia

Indice	Pagina
Introduzione	2
Descrizione dell'oggetto	2
Condizionamento	6
Verifiche prima della prova	6
Modalità	8
Risultati	9
Conclusioni	11
Campo di applicazione diretta	dei risultati d
prova	12

Il presente documento è composto da n. 39 pagine e n.1 allegato e non può essere riprodotto parzialmente, estrapolando parti di interesse a discrezione del cliente, con il rischio di favorire una interpretazione non corretta dei risultati, fatto salvo quanto definito a livello contrattuale.

I risultati si riferiscono solo all'oggetto in esame, così come ricevuto, e sono validi solo nelle condizioni in cui l'attività è stata effettuata.

Responsabile Tecnico di Prova:

Dott. Geol. Franco Berardi Direttore del Laboratorio di Resistenza al Fuoco: Dott. Ing. Stefano Vasini

Compilatore: Paolo Bonito Revisore: Dott. Geol. Franco Berardi Pagina 1 di 39

ISTITUTO GIORDANO S.p.A. Via Gioacchino Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italia - Tel. +39 0541 343030 - istitutogiordano@giordano.it - www.giordano.it Cap. Soc. € 1,500,000 i.v. - R.E.A. c/o C.C.I.AA (RN): 156766 - Registro Imprese Romagna (Forlì-Cesena e Rimini) e CF/P. IVA: n. 00 549 540 409

High loading capacity concealed hinges with built-in door closer

High loading capacity concealed hinges with built-in door closer







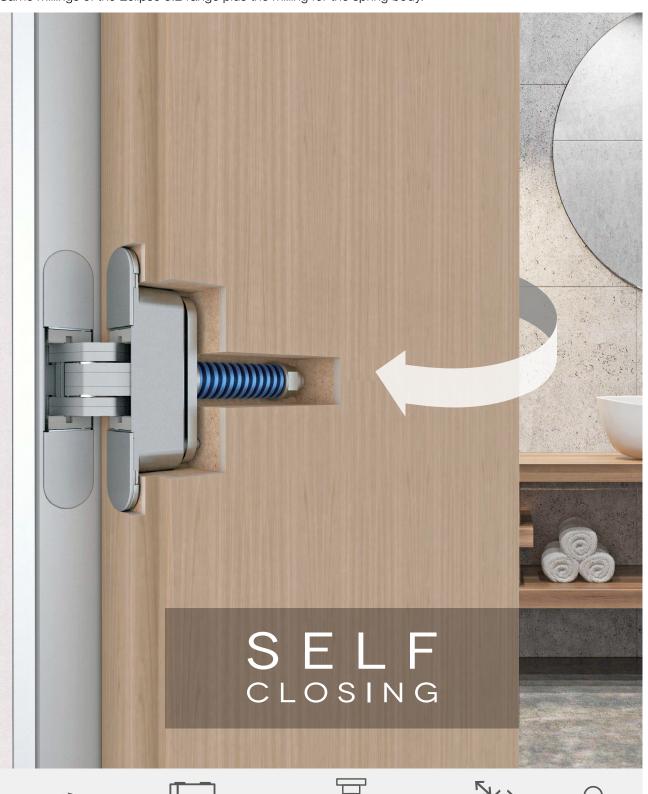
		TECHNIC	CAL INFOR	MATION		API	PLICATIO	NS	CE	RTIFICATES	
Eclipse	kg\capacity	adjustment	opening	max. extension	covers	 flush doors with rebate	flush doors without rebate	aluminium flush doors	fire and smoke resistant doors	EAD 020001-01-0405 EN 1935	CUL US LISTED UL LISTED
3.2 HD Self	 ≤ 60 kg	3	180°	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.





system.



Steel levers, ideal for heavy doors.



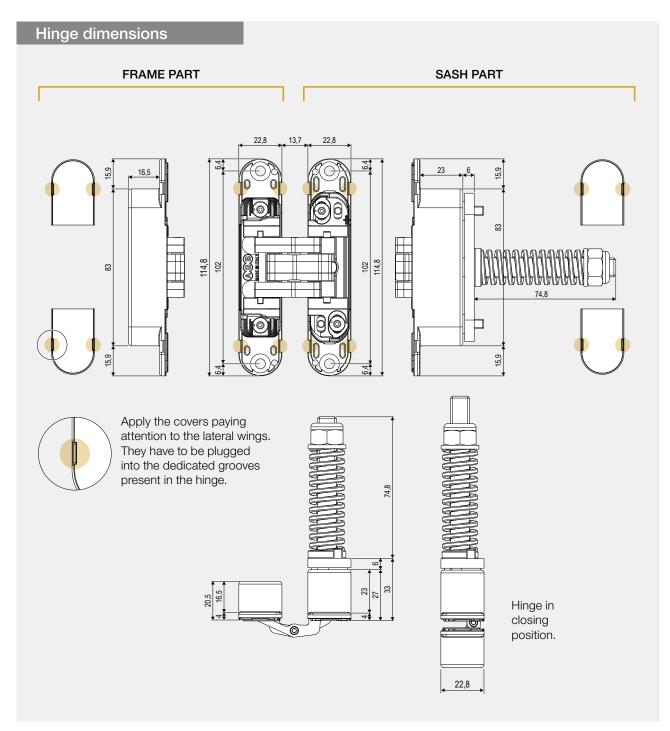
The same millings of the Eclipse 3.2 hinges adding the spring milling.

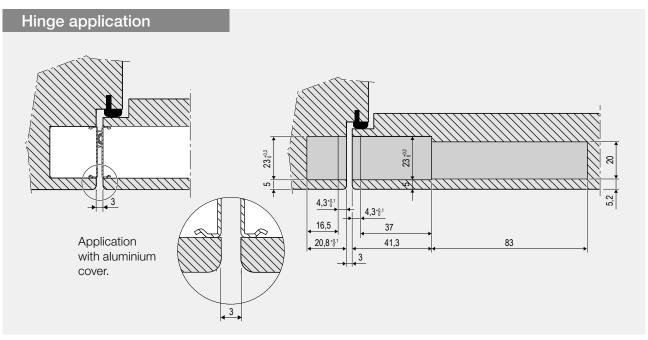


Wide adjustments.



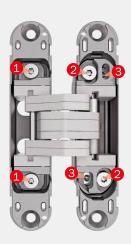
Flush covers.





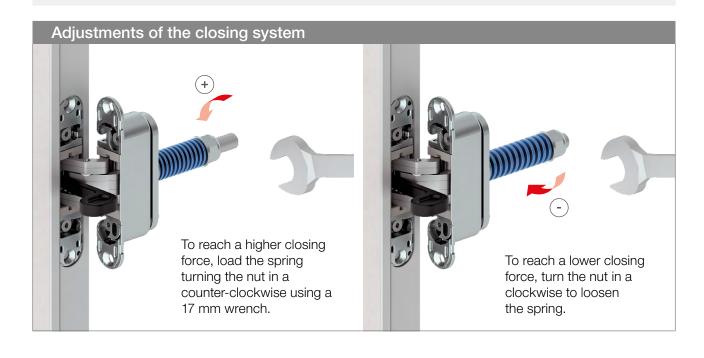
Drilling diagram FRAME PART SASH PART 20,8*0.1 41,3 16,5 4,3*0,1 4,3*0,1 37 16,63 16 005 83 115 cd.3 83 cd.3 115 03 83 0.3 25 92 92 16 0.5 16,03

Hinge adjustments

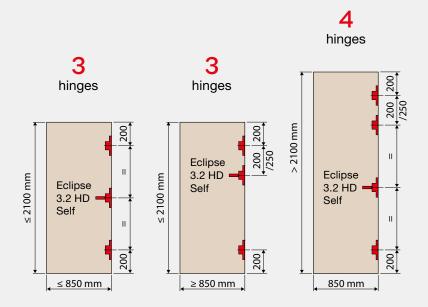


Please adjust the hinges with a 3 mm Allen key, as indicated here below:

- ±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.



Mounting ways for Eclipse 3.2 HD Self hinge



	TECHNICAL INFORMATION			
	WWW Spring	Suitable for sashes	Compatibility	
3.2 HD Self	Blue	Up to 40 kg	Eclipse 3.0 Eclipse 3.2 Eclipse 3.2 HD	
3.2 ND Sell	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.

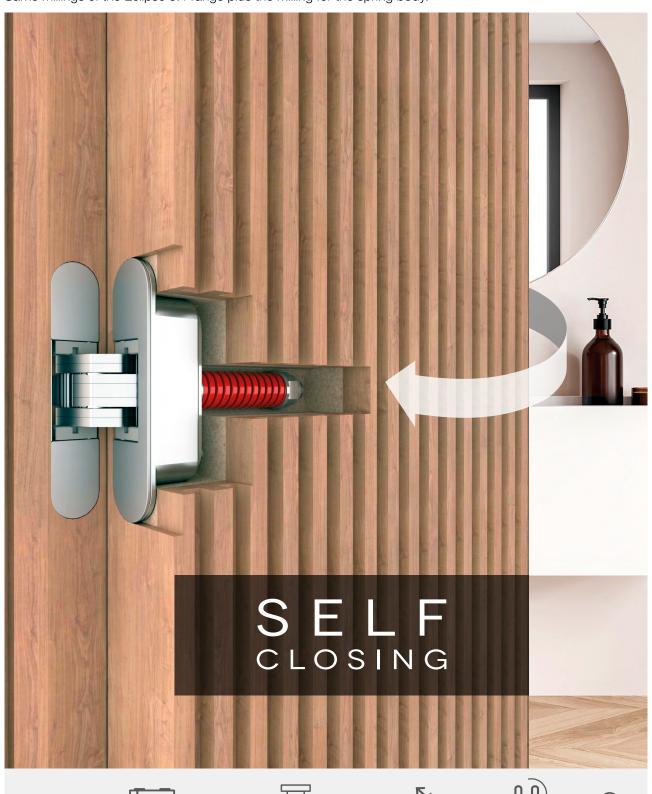
Note. The technical sheets are available at www.agb.it.

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 $3.4\,\mathrm{HD}$ Self is reversible with frame part reduced to $21\,\mathrm{mm}$.

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.



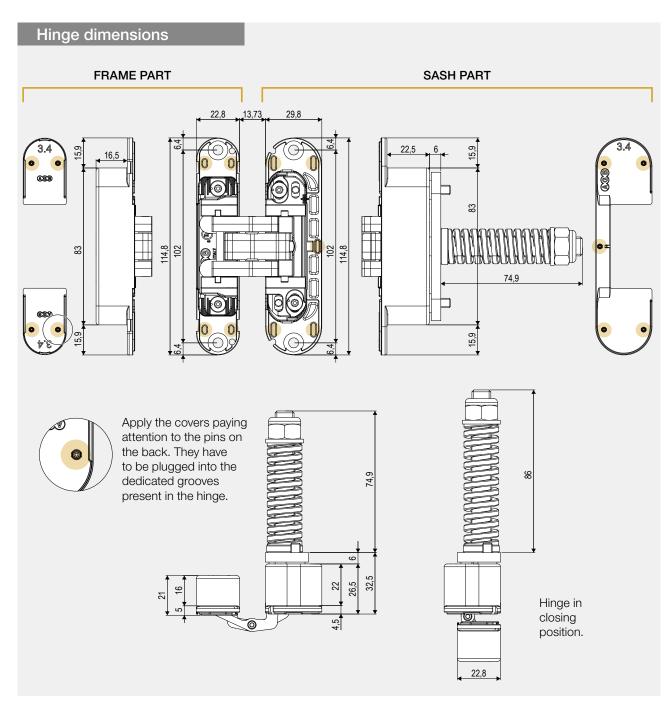
Wide adjustments.

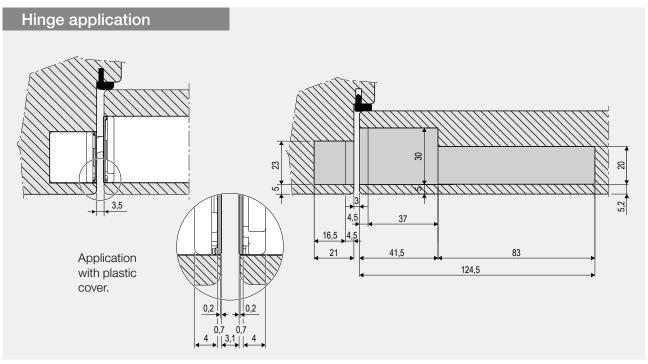


For reversible doors 38-40 mm.



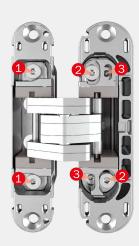
Flush covers.





FRAME PART SASH PART

Hinge adjustments



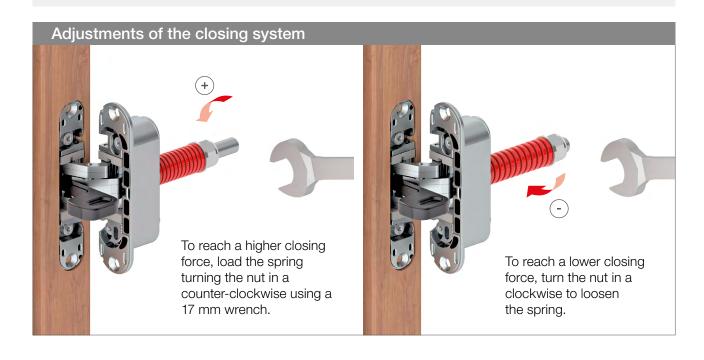
Please adjust the hinges with a 3 mm Allen key, as indicated here below:

• ±1 mm pressure adjustment: loosen the screws ① and move the hinge body. After this operation fasten the screws.

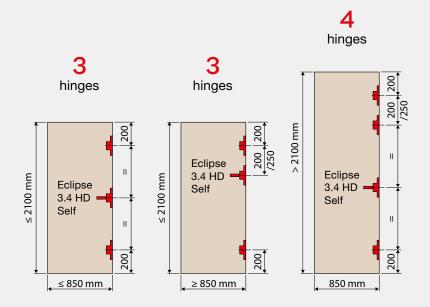
• ±2 mm vertical adjustment:

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.



Mounting ways for Eclipse 3.4 HD Self hinge



	TECHNICAL INFORMATION			
	WWW Spring	Suitable for sashes	Compatibility	
	Spring	Sultable for Sasiles	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.

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.



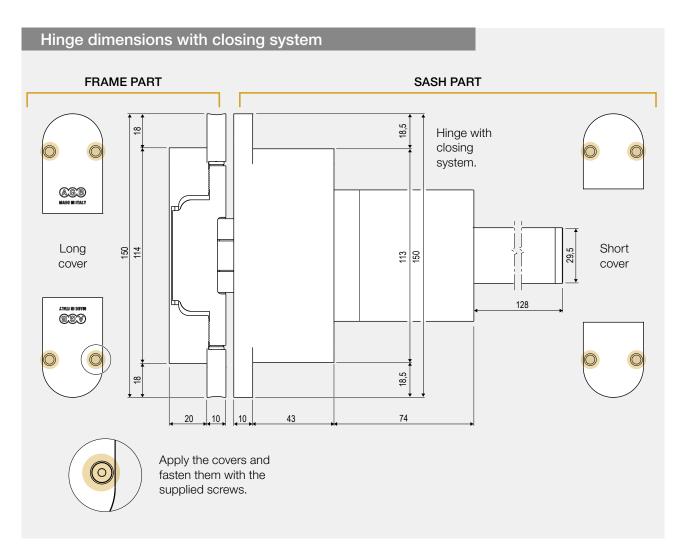
Wide adjustments for the closing system.

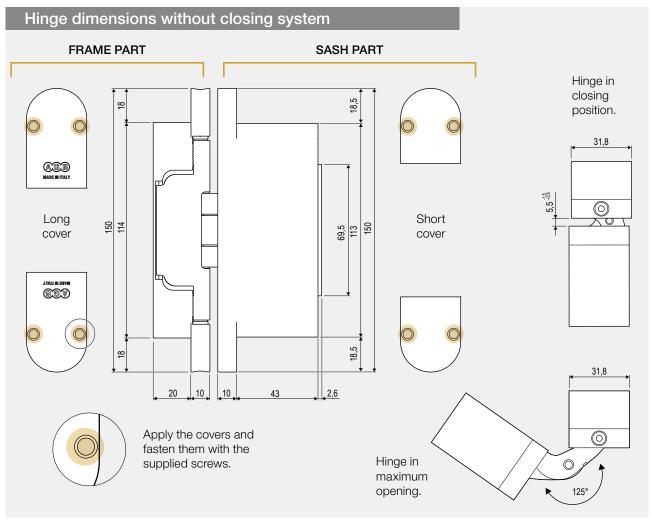


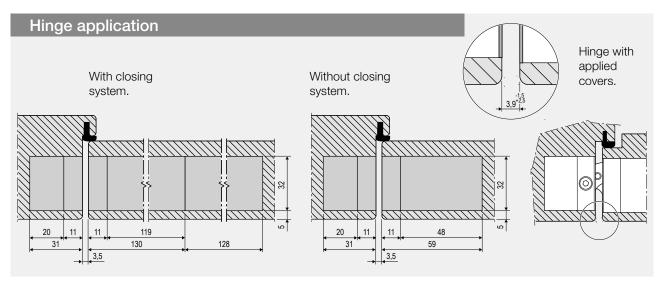
Hinges reversible.

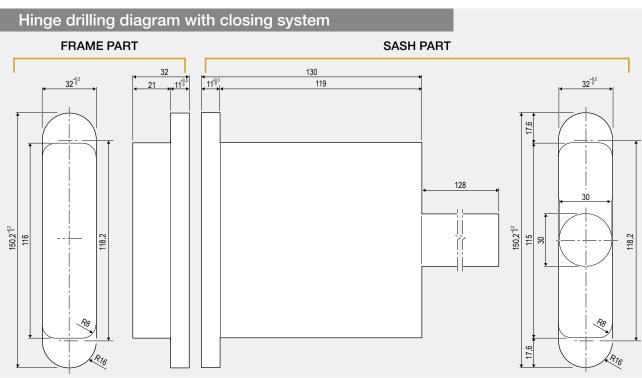


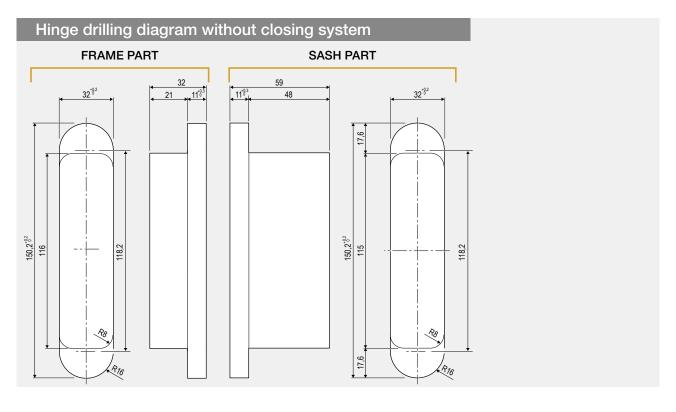
Flush steel covers.



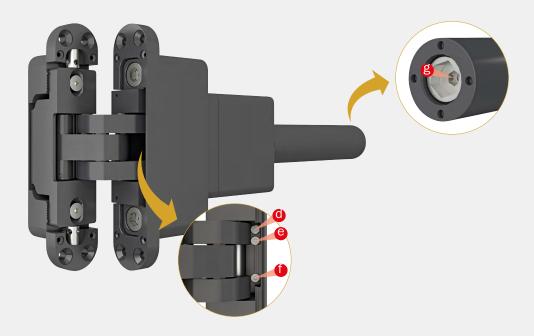








Hinge adjustments with closing system



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 **4**. In counter-clockwise, the speed increases.

Speed of closing

With a 2,5 mm Allen key **①**. In counter-clockwise, the speed increases.

• Max. corner opening

Maximum opening corner with a 2,5 mm Allen key **9**. In counter-clockwise, the maximum of opening corner increases.

Closing power

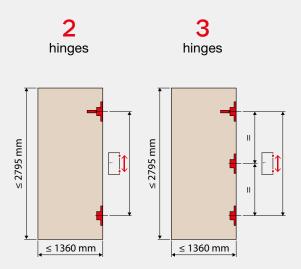
Power of closing during rotation, with a 12 mm Allen key **9**. This adjustment can be done only before installing the hinge; from the factory setting, please never turn in counter-clockwise.

Hinge adjustments without closing system



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

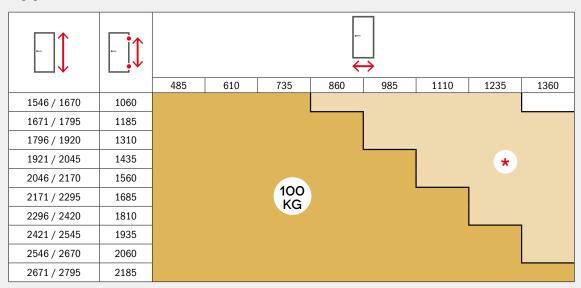
- ±1 mm pressure adjustment: with a 3 mm Allen key **a**.
- ±2 mm vertical adjustment: with a 3 mm Allen key **6**.
- -1,5 / +2,5 mm horizontal adjustment: with a 8 mm Allen key •.



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



^{*} Contact AGB Sales Force.

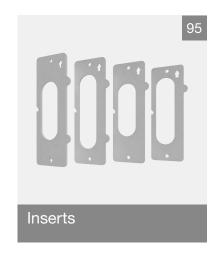
The technical sheets are available at www.agb.it.

Accessories

Accessories





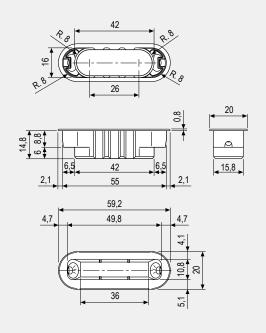


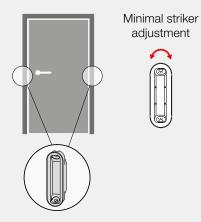




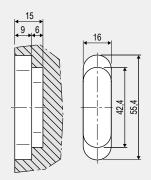


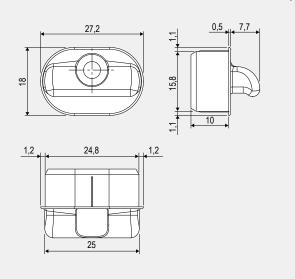
FRAME PART

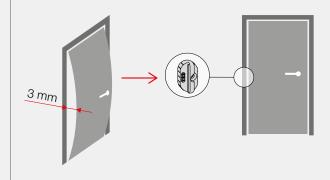




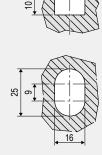
The frame milling of lock and hinge sides is the same.







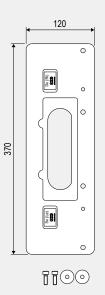
The beak avoids sash deformations caused by humidity or high heights, regaining up to 3 mm.
The beak is compatible with:
Minimal Plus, Alutop and Easy-Fix.



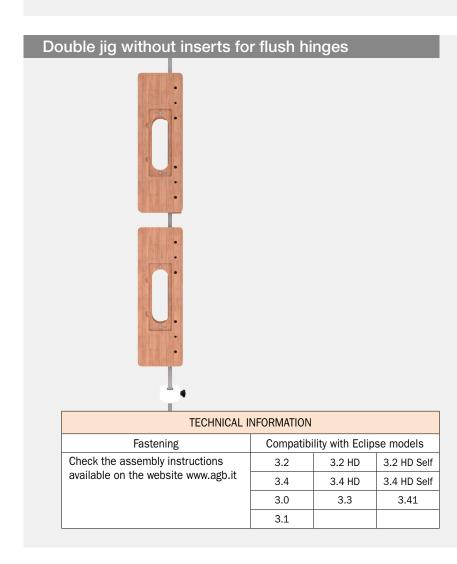
TECHNICAL INFORMATION	
Use	Compatibility with Eclipse models
To be coupled with hinges for flush doors.	Complete range

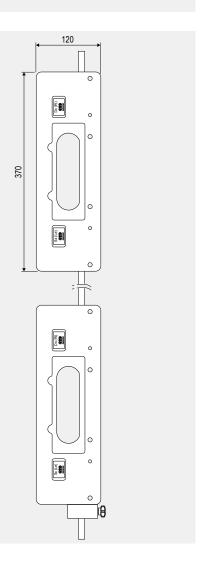
Single jig without inserts for flush hinges

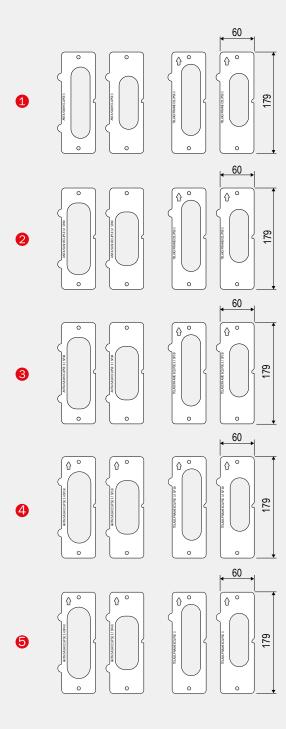




TECHNICAL INFORMATION					
Fastening	Compatibi	lity with Eclip	se models		
Check the assembly instructions available on the website www.agb.it	3.2	3.2 HD	3.2 HD Self		
	3.4	3.4 HD	3.4 HD Self		
	3.0	3.3	3.41		
	3.1				

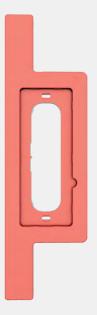


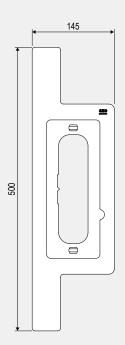




TECHNICAL INFORMATION						
Application	Fastening	Compatibility with Eclipse models				
Installed to the jig.	Check the assembly instructions available on the website www.agb.it	1 3.0, 3.3, 3.2, 3.2 HD, 3.2 HD Self 2 3.1, 3.41 (40 mm thickness) 3 3.1, 3.41 (38 mm thickness) 4 3.4, 3.4 HD, 3.4 HD Self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

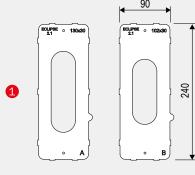
Budget single jig without inserts for flush hinges

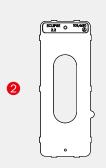


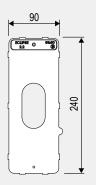


TECHNICAL INFORMATION					
Fastening	Compatibility with	h Eclipse models			
Check the assembly instructions available on the website www. agb.it	2.1	2.2			

Milling inserts for jig

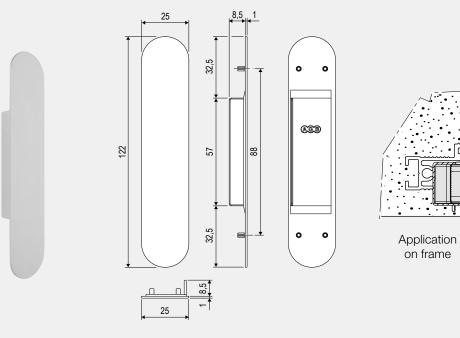






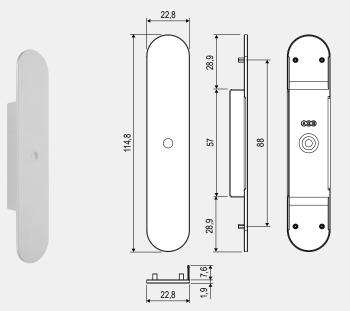
TECHNICAL INFORMATION					
Application	Fastening	Compatibility with	n Eclipse models		
Installed to the jig.	Check the assembly instructions available on the website www.agb.it	1 2.1	2 2.2		

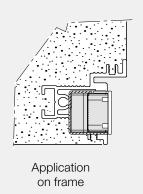
Cover with cover-edges for frame



TECHNICAL INFORMATION					
Application	Fastening	Compatibility wit	h 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

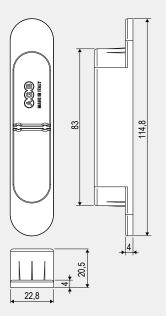




TECHNICAL INFORMATION							
Application	Fastening	Compatibility with Eclipse models					
For flush doors, it avoids dirt during wall installations of frame.	Coupled to the frame side hinge body for the cap removal, please operate on the central hole.	3.2	3.2 HD	3.2 HD Self			
		3.4	3.4 HD	3.4 HD Self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

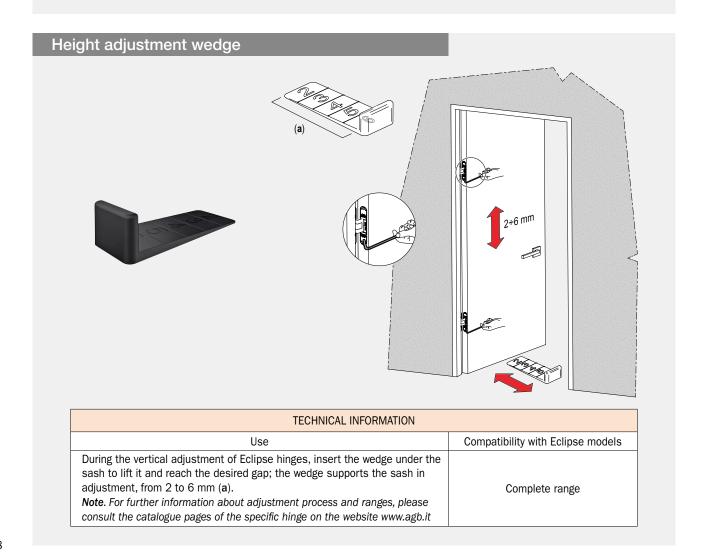
Frame cap







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				



This products was made entirely in Italy. The design, production, processing and packaging are carried out exclusively on the Italian territory, into the AGB plants.

100% MADE IN ITALY

