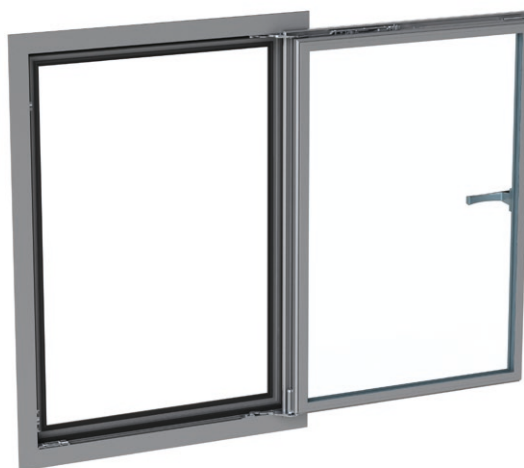


### CHIC 3D 100

#### Functions

Complete system for the construction of concealed tilt-and-turn windows with load capacities of up to 100 kg and with 180° sash opening. Available in the standard, logic and micro-ventilation versions.

# CHIC 100



#### Technical Features

Making a CHIC 3D 100 Tilt-and-Turn mechanism requires:

1. Set of hinges + arms
2. Set of mechanisms for cremones, window handles and NP SUPRA window handles
3. Cremone, window handle or NP SUPRA window handle (available in different models to choose from in the specific catalogue section)

#### Adjustments

The adjustments are micrometric and independent.

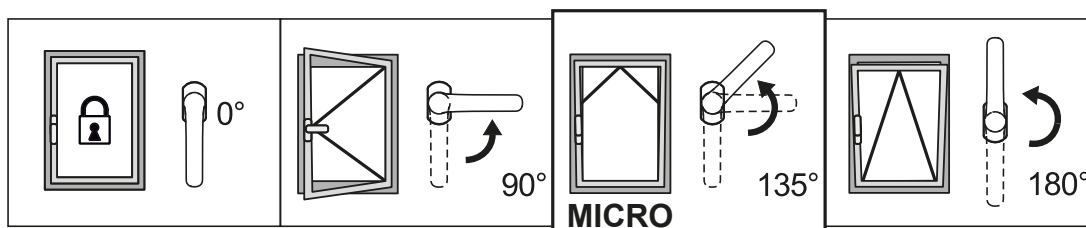
#### Standard microventilation

Micro-ventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement, for better air exchange.

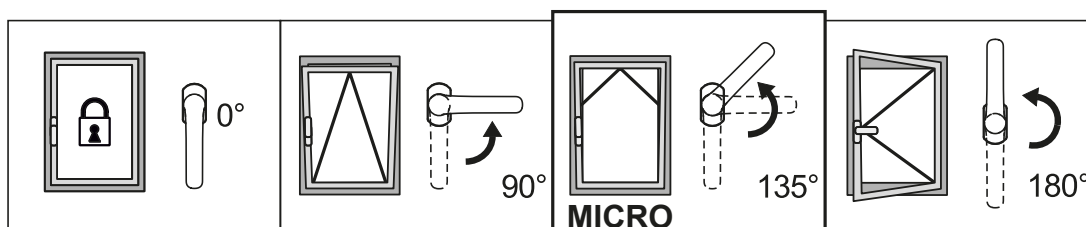
#### Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

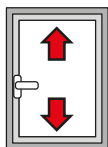
Production micro-ventilation with standard opening



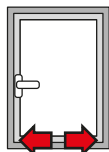
Production micro-ventilation with Logica opening



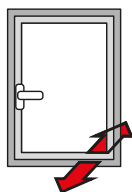
## ADJUSTMENTS [mm]



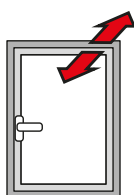
**Height:**  
+2.5 / -1



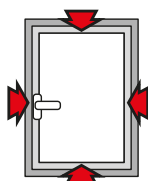
**Side:**  
±1.5



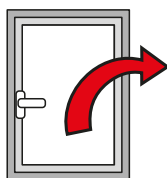
**Bottom hinge compression:**  
+1.4 / -0.6



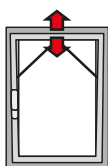
**Top hinge compression:**  
±1.5



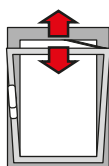
**Striker compression:**  
±1.8



**Sash fall:**  
+3.5 / -1.5



**Micro-ventilation:**  
+3.6 / -1.8



**T2 arm opening:**  
148 ÷ 178

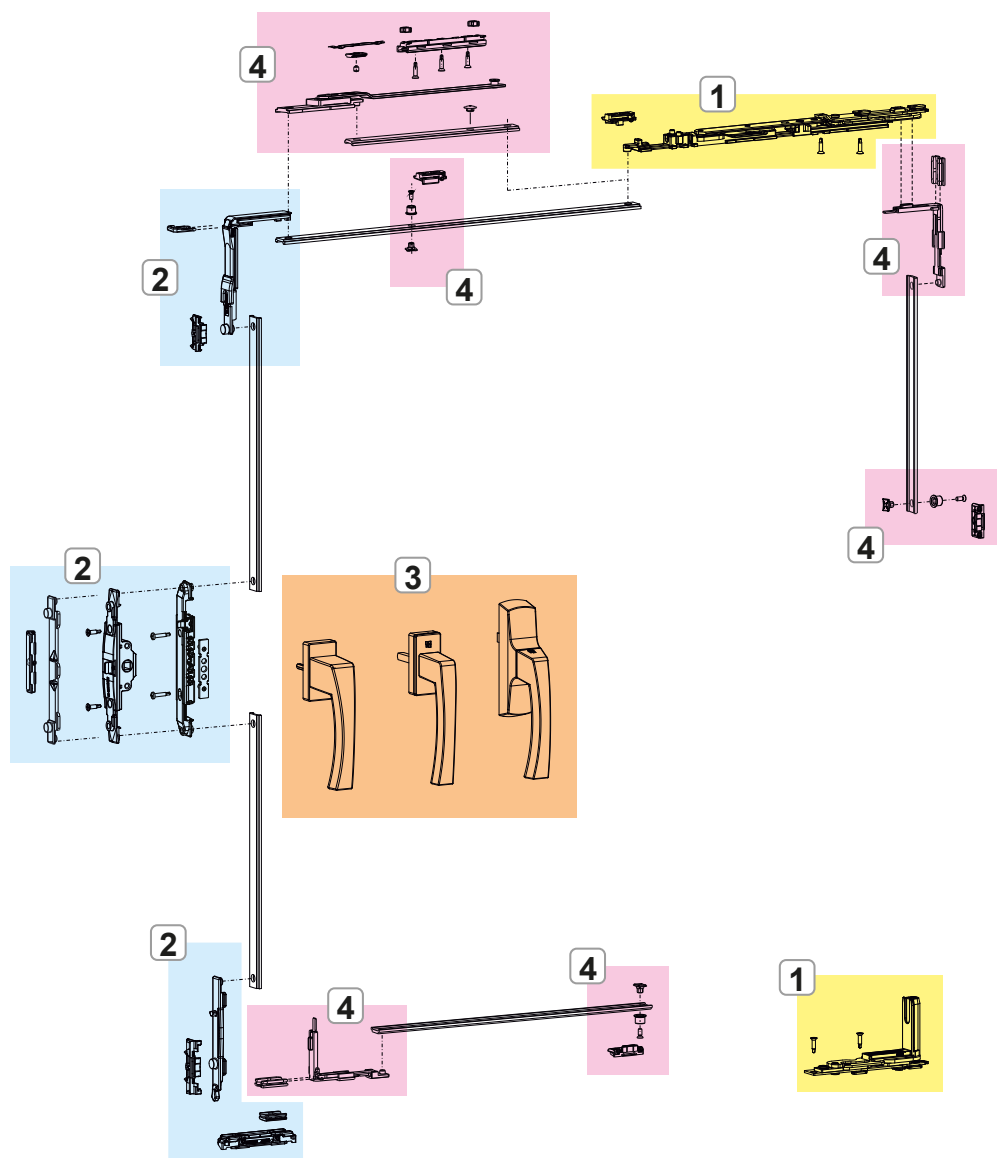
Table of maximum glass thickness [mm]

|      |     |     |     |     |     |      |      |      |      |      |      |
|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 2500 | 33  | 27  | 23  | 20  | 18  | 16   | 15   | 14   | 13   | 12   | 11   |
| 2400 | 33  | 27  | 23  | 20  | 18  | 16   | 15   | 14   | 13   | 12   | 11   |
| 2300 | 34  | 28  | 24  | 21  | 19  | 17   | 16   | 14   | 13   | 12   | 11   |
| 2200 | 36  | 30  | 25  | 22  | 20  | 18   | 16   | 15   | 14   | 13   | 12   |
| 2100 | 37  | 31  | 27  | 23  | 21  | 19   | 17   | 16   | 14   | 13   | 12   |
| 2000 | 39  | 33  | 28  | 25  | 22  | 20   | 18   | 16   | 15   | 14   | 13   |
| 1900 | 41  | 34  | 30  | 26  | 23  | 21   | 19   | 17   | 16   | 15   | 14   |
| 1800 | 44  | 36  | 31  | 27  | 24  | 22   | 20   | 18   | 17   | 16   | 15   |
| 1700 | 46  | 38  | 33  | 29  | 26  | 23   | 21   | 19   | 18   | 16   | 15   |
| 1600 | 49  | 41  | 35  | 31  | 27  | 25   | 22   | 20   | 19   | 17   | 15   |
| 1500 | 50  | 44  | 37  | 33  | 29  | 26   | 24   | 22   | 20   | 17   | 15   |
| 1400 | 50  | 47  | 40  | 35  | 31  | 28   | 25   | 23   | 20   | 17   | 15   |
| 1300 | 50  | 50  | 43  | 38  | 34  | 30   | 27   | 24   | 20   | 17   | 15   |
| 1200 | 50  | 50  | 47  | 41  | 36  | 33   | 28   | 24   | 20   | 17   | 15   |
| 1100 | 50  | 50  | 50  | 45  | 40  | 34   | 28   | 24   | 20   | 17   |      |
| 1000 | 50  | 50  | 50  | 49  | 42  | 34   | 28   | 24   | 20   |      |      |
| 900  | 50  | 50  | 50  | 50  | 42  | 34   | 28   | 24   |      |      |      |
| 800  | 50  | 50  | 50  | 50  | 42  | 34   | 28   |      |      |      |      |
| 700  | 50  | 50  | 50  | 50  | 42  | 34   |      |      |      |      |      |
| 600  |     |     |     |     |     |      |      |      |      |      |      |
| 445  | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |

Table of maximum load capacity [kg]

|      |     |     |     |     |     |      |      |      |      |      |      |
|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 2500 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 2400 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 2300 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 2200 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 2100 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 2000 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 1900 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 1800 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 100  |
| 1700 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 100  | 98   |
| 1600 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 99   | 92   |
| 1500 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 100  | 93   | 87   |
| 1400 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 100  | 93   | 87   | 81   |
| 1300 | 100 | 100 | 100 | 100 | 100 | 100  | 100  | 94   | 87   | 80   | 75   |
| 1200 | 100 | 100 | 100 | 100 | 100 | 100  | 95   | 87   | 80   | 74   | 69   |
| 1100 | 100 | 100 | 100 | 100 | 100 | 95   | 87   | 79   | 73   | 68   |      |
| 1000 | 100 | 100 | 100 | 100 | 96  | 87   | 79   | 72   | 67   |      |      |
| 900  | 100 | 100 | 100 | 98  | 87  | 78   | 71   | 65   |      |      |      |
| 800  | 100 | 100 | 99  | 87  | 77  | 69   | 63   |      |      |      |      |
| 700  | 100 | 100 | 87  | 76  | 67  | 61   |      |      |      |      |      |
| 600  |     |     |     |     |     |      |      |      |      |      |      |
| 445  | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |

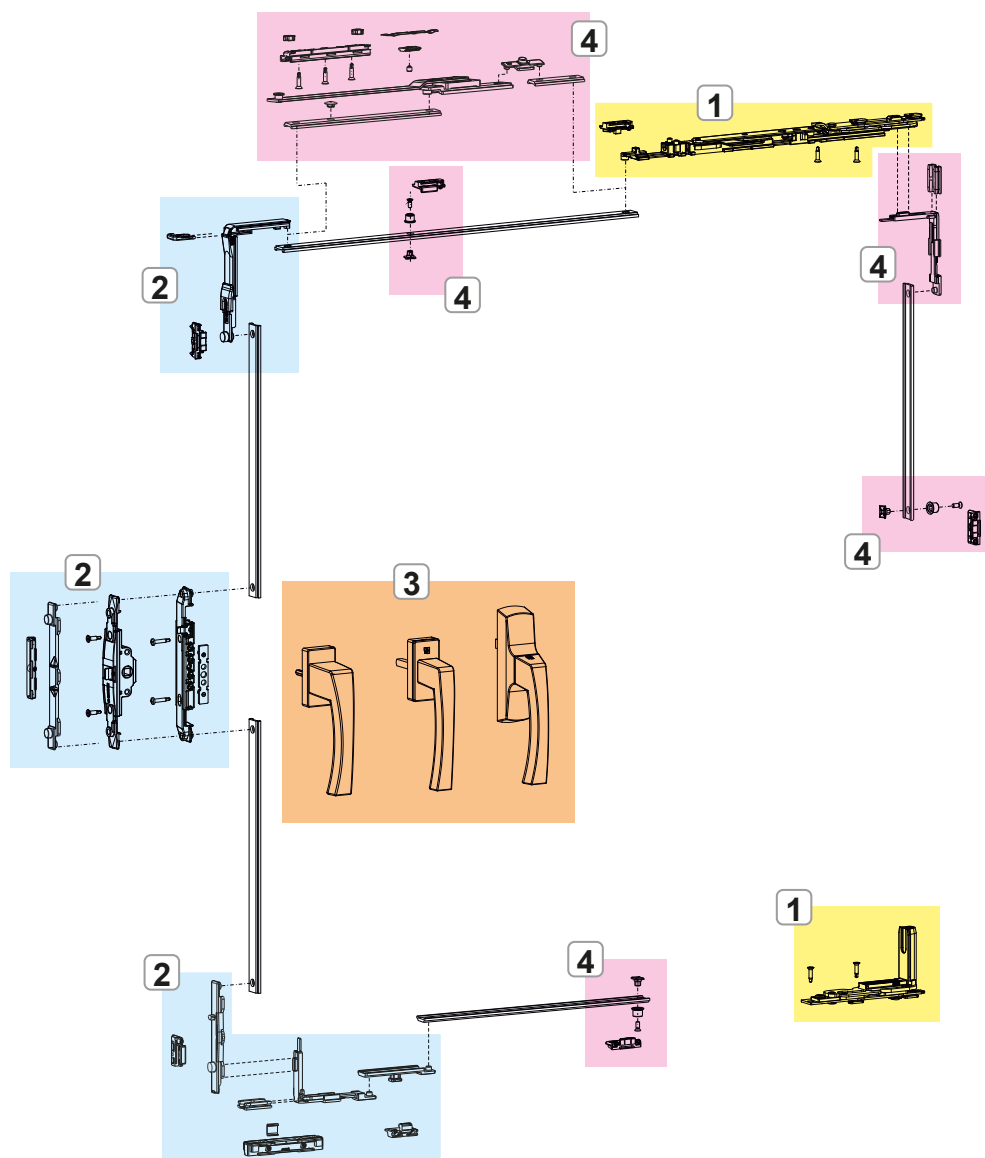
## CHIC 3D 100 standard



- 1. CHIC 3D 100 HINGES AND ARMS
- 2. CHIC 3D 100 FASTENING MECHANISMS
- 3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
- 4. CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

# CHIC 100

## CHIC 3D 100 logica



- 1. CHIC 3D 100 HINGES AND ARMS
- 2. CHIC 3D 100 FASTENING MECHANISMS
- 3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
- 4. CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

## CHIC 3D 100 HINGES AND ARMS

### Functions

Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

### Technical Features

They enable tilt-and-turn opening combined with the mechanisms.

Micro-ventilation and logica versions.

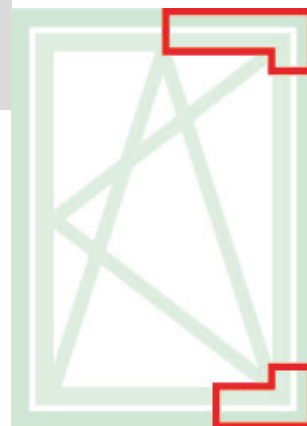
The arm is equipped with micro-ventilation as standard (adjustable).

Moving the fastening pawl takes the arm from conventional to logica.

The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

The surface treatment SHIELD MAX 5 offers Giesse hardware a significant advantage, allowing it to achieve CLASS 5 (<480 h) corrosion resistance according to the UNI EN 1670 standard.

Furthermore, this treatment ensures exceptional resistance on Giesse's CHIC 100 casement and tilt-and-turn products, exceeding 1000 hours in salt spray testing, thus providing more than double the durability and protection against corrosion.



**SHIELDMAX5**

### Materials

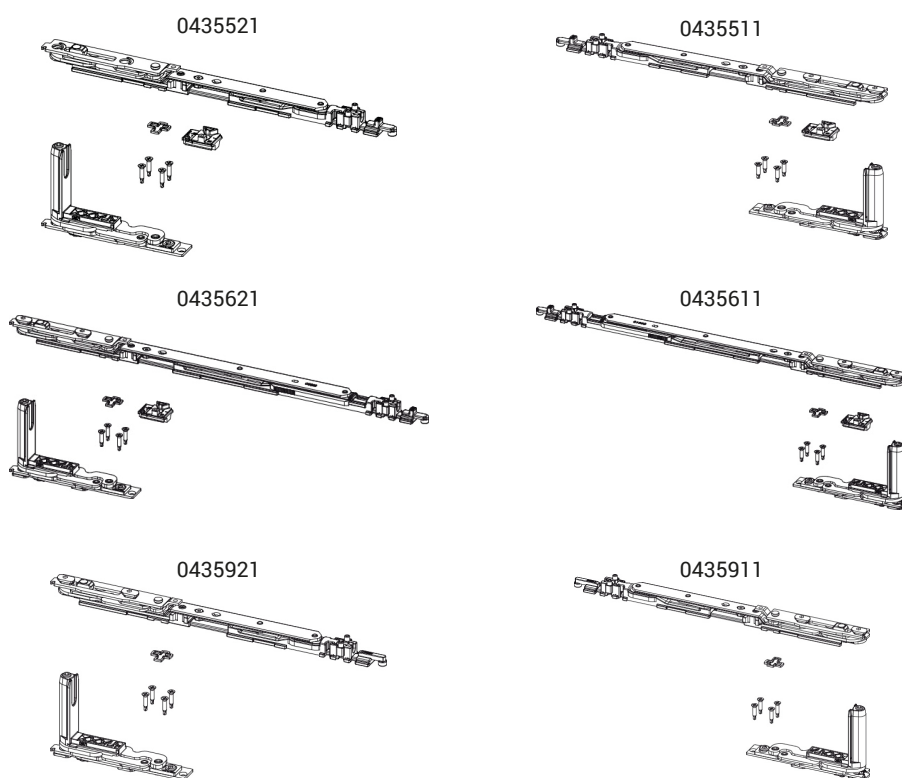
Corner support made of zamak

Connecting brackets and hinge plates made of zinc plated steel

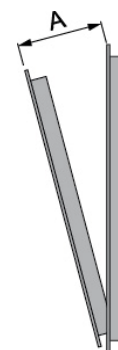
Pins made of 304 grade stainless steel and aluminium bronze

Cams made of zinc plated steel

Connecting bracket and arm rod made of 304 grade stainless steel



Sash opening



| Item code | Description                | PROFILE CROSS - SECTION       | Range (mm)   | Version | A (mm)  | Hand | Base Raw | Anodised Elox | Painted | Trend/Gold Brass | Pieces per pack |
|-----------|----------------------------|-------------------------------|--------------|---------|---------|------|----------|---------------|---------|------------------|-----------------|
| 0435511   | CHIC - T1 ARM T&T KIT      | C001-C002-C003-C004-C005-C006 | L 470 ÷ 700  | Micro   | 98      | RX   | X        |               |         |                  | 10              |
| 0435521   | CHIC - T1 ARM T&T KIT      | C001-C002-C003-C005-C006      | L 470 ÷ 700  | Micro   | 98      | LX   | X        |               |         |                  | 10              |
| 0435621   | CHIC - T2 LEFT ARM T&T KIT | C001-C002-C003-C005-C006      | L 600 ÷ 1500 | Micro   | 148÷178 | LX   | X        |               |         |                  | 10              |
| 0435611   | CHIC - T2 ARM T&T KIT      | C001-C002-C003-C005-C006      | L 600 ÷ 1500 | Micro   | 148÷178 | RX   | X        |               |         |                  | 10              |
| 0435911   | CHIC - T1 ARM T&T KIT      | C001-C002-C003-C005-C006      | L 445 ÷ 700  | -       | 98      | RX   | X        |               |         |                  | 10              |
| 0435921   | CHIC - T1 ARM T&T KIT      | C001-C002-C003-C005-C006      | L 445 ÷ 700  | -       | 98      | LX   | X        |               |         |                  | 10              |

## CHIC 3D 100 FASTENING MECHANISMS

### Functions

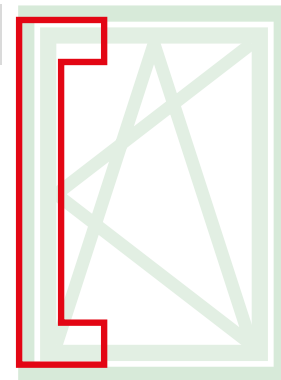
Tilt-and-Turn fastening mechanisms for cremone, window handle and NP SUPRA window handle, available in the Standard and Logica versions.

### Materials

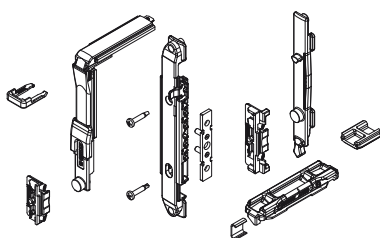
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).

Screws and grub screws in stainless steel.

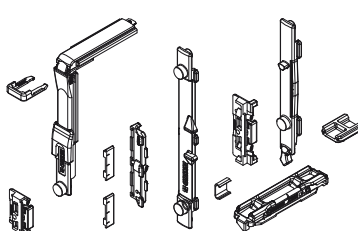
Polyamide raiser.



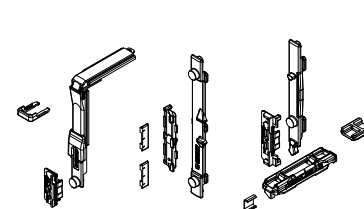
0395501



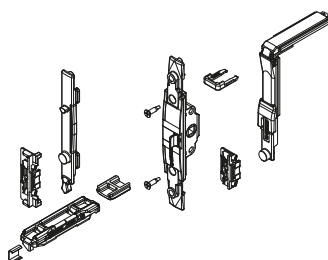
04704



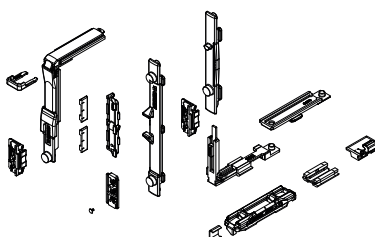
04704010



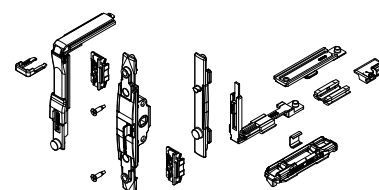
04705N



04706N



04707V



| Item code | Description                          | PROFILE CROSS - SECTION                           | Window handle | Version | Base Raw | Anodised Elox | Painted | Trend/Gold Brass | Pieces per pack |
|-----------|--------------------------------------|---------------------------------------------------|---------------|---------|----------|---------------|---------|------------------|-----------------|
| 0395501   | T/T FASTENING MECHANISM              | C001-C002-C004-C005-C006-C013-C014-C015-C016-C017 | NP SUPRA      | -       | X        |               |         |                  | 10              |
| 04704     | T/T FASTENING MECHANISM              | C001-C002-C004-C005-C006-C013-C014-C015-C016-C017 | Cremone       | -       | X        |               |         |                  | 10              |
| 04704010  | T/T FASTENING MECHANISM              | C003                                              | Cremone       | -       | X        |               |         |                  | 10              |
| 04705N    | T/T M 180 FASTENING MECHANISM        | C001-C002-C004-C005-C006-C013-C014-C015-C016-C017 | Window handle | -       | X        |               |         |                  | 10              |
| 04706N    | T/T LOGICA FASTENING MECHANISM       | C001-C002-C004-C005-C006-C013-C014-C015-C016-C017 | Cremone       | Logica  | X        |               |         |                  | 10              |
| 04707V    | T/T M 180 LOGICA FASTENING MECHANISM | C001-C002-C004-C005-C006-C013-C014-C015-C016-C017 | Window handle | Logica  | X        |               |         |                  | 10              |

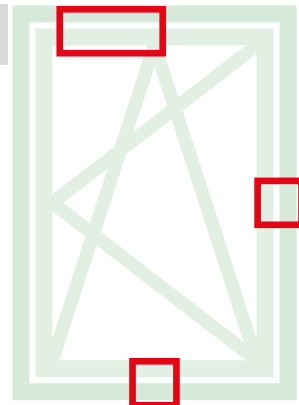
## CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

### Functions

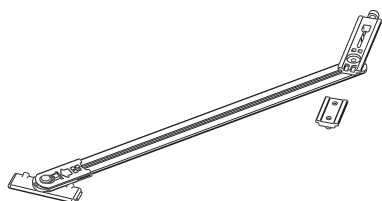
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.

### Technical Features

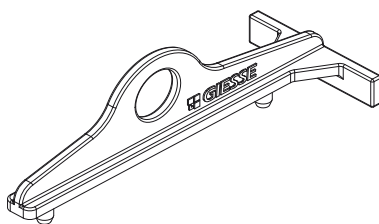
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.



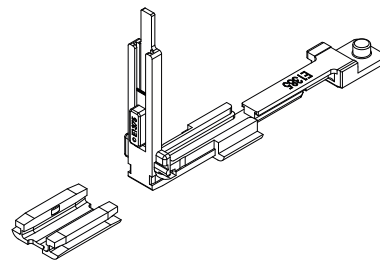
02030K



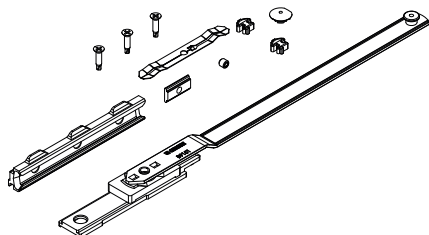
03535



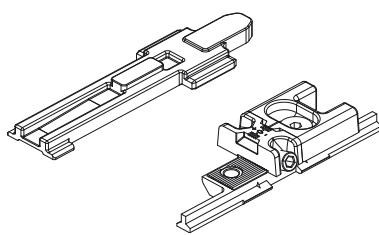
04024K



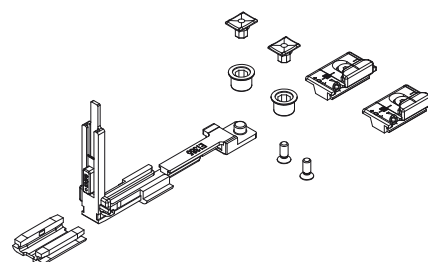
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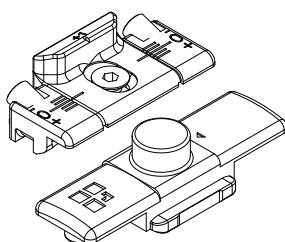
04357



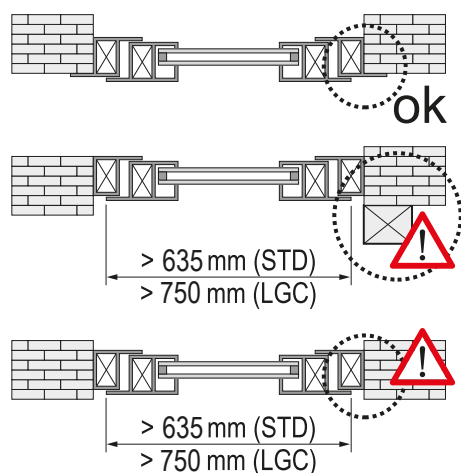
04770K



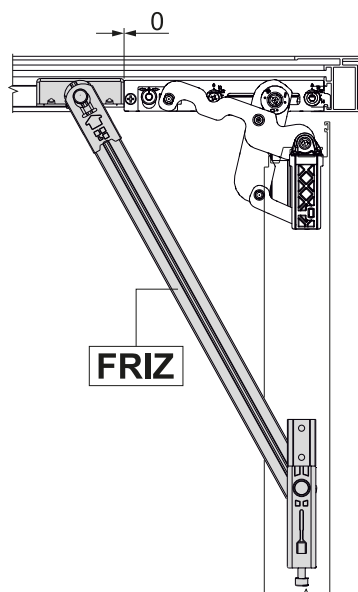
04777K



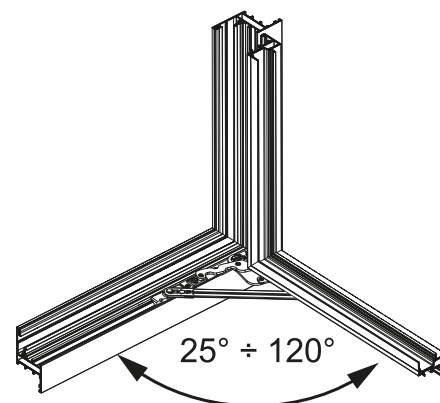
## Mandatory to use the FRIZ arm



## FRIZ arm positioning



## Opening angle with FRIZ arm



| Item code | Description                                    | PROFILE CROSS - SECTION                                | Range (mm)           | Version | Base Raw | Anodised Elox | Painted | Trend/ Gold Brass | Pieces per pack |
|-----------|------------------------------------------------|--------------------------------------------------------|----------------------|---------|----------|---------------|---------|-------------------|-----------------|
| 02030K    | FRIZ STAY LIMITATION ARM                       | C001-C002-C004-C011-C012-C013-C014-C015-C016-C017      | See picture          | -       | X        |               |         |                   | 10              |
| 03535     | CHIC - TEMPLATE FOR TILT-AND-TURN              | C001-C002-C003-C004-C005-C006                          | -                    | -       | X        |               |         |                   | 10              |
| 04024K    | CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION | C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017 | -                    | -       | X        |               |         |                   | 10              |
| 04301K    | T/T FUTURA ADDITIONAL ARM                      | C001-C002-C003-C004-C005-C006                          | W > 1000             | -       | X        |               |         |                   | 5               |
| 04357     | CHIC - ARM ADDITIONAL FASTENING MECHANISM      | C001-C002-C003-C004-C005-C006                          | -                    | -       | X        |               |         |                   | 10              |
| 04770K    | FUTURA ADDITIONAL FASTENING MECHANISM          | C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017 | H > 1200<br>L > 1000 | -       | X        |               |         |                   | 10              |
| 04777K    | FUTURA ADDITIONAL FASTENING MECHANISM          | C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017 | H > 1200<br>L > 1000 | Logica  | X        |               |         |                   | 50              |

## SECONDARY SASH HINGE SET FOR CHIC 3D 100

### Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

### Technical Features

Sash opening to 180°.

Maximum load capacity 100 kg.

Assembly is simple, fast and easy using the special pre-assembled cams.

When there is an additional fastening mechanism, you need to use the CHIC fastening element.

Both hinges are adjustable (3D).

If opening is obstructed, you need to use the FRIZ limitation arm.

The surface treatment SHIELD MAX 5 offers Giesse hardware a significant advantage, allowing it to achieve CLASS 5 (<480 h) corrosion resistance according to the UNI EN 1670 standard.

Furthermore, this treatment ensures exceptional resistance on Giesse's CHIC 100 casement and tilt-and-turn products, exceeding 1000 hours in salt spray testing, thus providing more than double the durability and protection against corrosion.

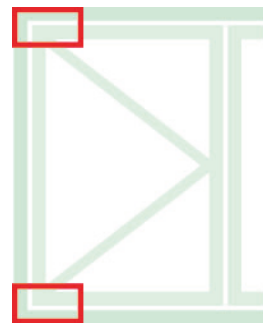
### Materials

Corner support made of zamak

Connecting brackets and hinge plates made of zinc plated steel

Pins made of 304 grade stainless steel and aluminium bronze

Cams made of zinc plated steel

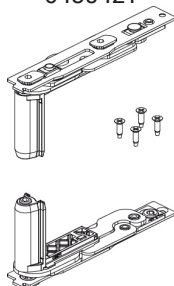


Online data sheet

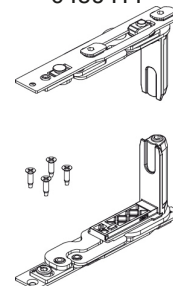


SHIELD MAX 5

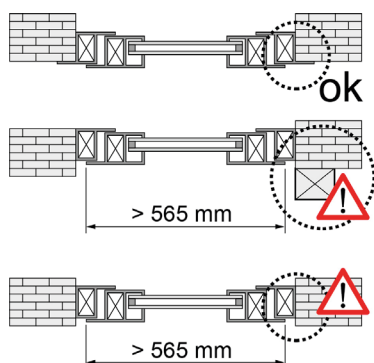
0435421



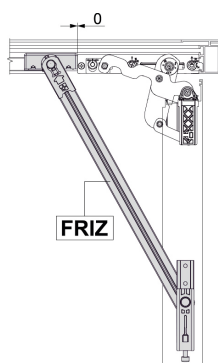
0435411



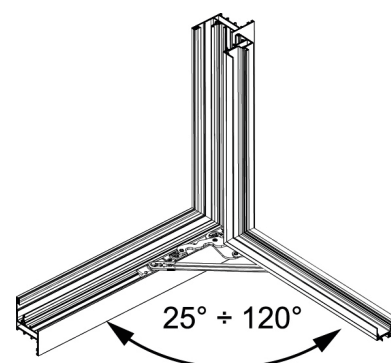
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



| Item code | Description           | PROFILE CROSS - SECTION  | Hand | Base Raw | Anodised Elox | Painted | Trend/Gold Brass | Pieces per pack |
|-----------|-----------------------|--------------------------|------|----------|---------------|---------|------------------|-----------------|
| 0435421   | CHIC - SASH HINGE SET | C001-C002-C003-C005-C006 | LX   | X        |               |         |                  | 10              |
| 0435411   | CHIC - SASH HINGE SET | C001-C002-C003-C005-C006 | RX   | X        |               |         |                  | 10              |