

**ARX**  
SPIN



Made in Europe

**ARX**  
by KOVINOPLASTIKA LOŽ

LIFETIME  
WARRANTY

Made in Europe

**ARX**  
by KOVINOPLASTIKA LOŽ

ARX COAT  
SURFACE  
PROTECTION

## ARX SPIN TIMBER

High quality, durable and simple  
Turn & Tilt hardware for for TIMBER windows

**2022**

**ARX**  
The Hardware.

Made in Europe  
**ARX**  
by KOVINOPLASTIKA LOŽ  
LIFETIME  
WARRANTY

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ARX COAT  
SURFACE  
PROTECTION

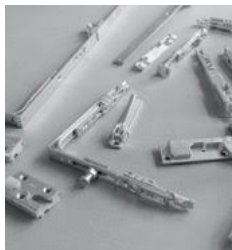
Bring premium quality  
into your home for a lifetime.

# ARX PORTFOLIO



IFT Rosenheim  
-Certificate of conformity  
for ARX SPIN and ARX  
DOOR LOCK.

## ARX SPIN



Turn and tilt hardware solutions  
for windows and balcony doors.

**ARX**  
SPIN

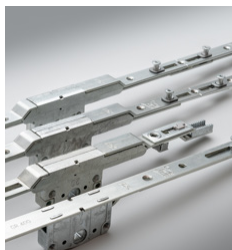
## ARX DOOR LOCK



Multipoint door lock solutions for  
main and back entrance doors.

**ARX**  
DOOR LOCK

## ARX CASEMENT



Solutions for  
casement windows  
-outward opening.

**ARX**  
CASEMENT

## ARX SLIDE



Sliding hardware  
solutions for doors  
and windows.

**ARX**  
SLIDE

## ARX ACCESSORIES



High quality, durable  
and simple accessories  
for windows and doors.

**ARX**  
ACCESSORIES

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**ARX**  
The Hardware.  
03/2022

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## ARX – bring premium quality in your home for a lifetime

ARX is one of the leading providers of window and door hardware In Europe. Brand ARX is built on more than 67 years of foundation and experience of KOVINOPLASTIKA LOŽ. From that knowledge we are drawing the inspiration to create new and innovative solutions. Integrity in everything we do, quality of our work, and tailor-made building hardware solutions for our customers are the secret of our success and harmonious partnership with our customers. .

### Window and door hardware tailored to your demands

Concerning costumers our goal is to provide functional, reliable & innovative experience of uncompromising quality that meets the highest standards of window and door hardware. We are focused on developing and applying best solutions in the field, while guaranteeing a flexible and efficient production process. Such approaches, in combination with the established knowledge, enable our experts to design and execute the most appropriate solutions tailored to your demands.

### Our values, vision and mission

We are a team of engaged co-workers with the highest values like honesty, excellence, openness, endeavor and responsibility. We always strive to optimally use the knowledge and technologies, by which we develop and create the products and assemblies with higher added value, to ensure end users with a high level of security, wellbeing and best user experience. Our efforts have been rewarded by becoming established well-known development supplier. Being the best flexible and digitized niche solution developer and material modifier is our first and foremost mission.

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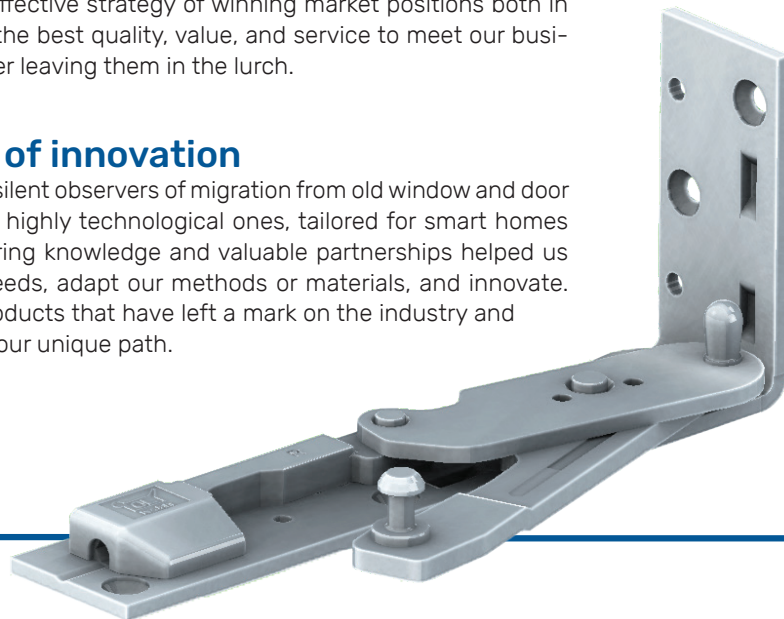


## Quality-to-price ratio that ensures for the best market performance

Besides its distinctive quality, the ARX building hardware has an excellent quality-to-price ratio, providing you with a fast and effective strategy of winning market positions both in the Europe and globally. We provide the best quality, value, and service to meet our business partners' and users' needs, never leaving them in the lurch.

## Accelerating the pace of innovation

Through the years we were never the silent observers of migration from old window and door hardware solutions to the nowadays highly technological ones, tailored for smart homes and buildings. Experiences, engineering knowledge and valuable partnerships helped us respond to and anticipate market needs, adapt our methods or materials, and innovate. Development of high-quality new products that have left a mark on the industry and decades of experience have shaped our unique path.



There is hardware,  
and then there is **ARX**.

FOR FULL TERMS  
AND CONDITIONS,  
PLEASE VISIT:







**Based on the huge versatility of our knowledge implemented into the design and applied research, we do not simply offer you products; we provide you with the following BENEFITS:**



## **ARX lifetime warranty**

For you to have complete confidence in our products, proven technologies, and expert skills, like we do, we provide you with a Lifetime Warranty on our building hardware functionality. The warranty applies exclusively to the use of the ARX building hardware, and to all manufacturers and suppliers of doors and windows who use ARX building hardware.



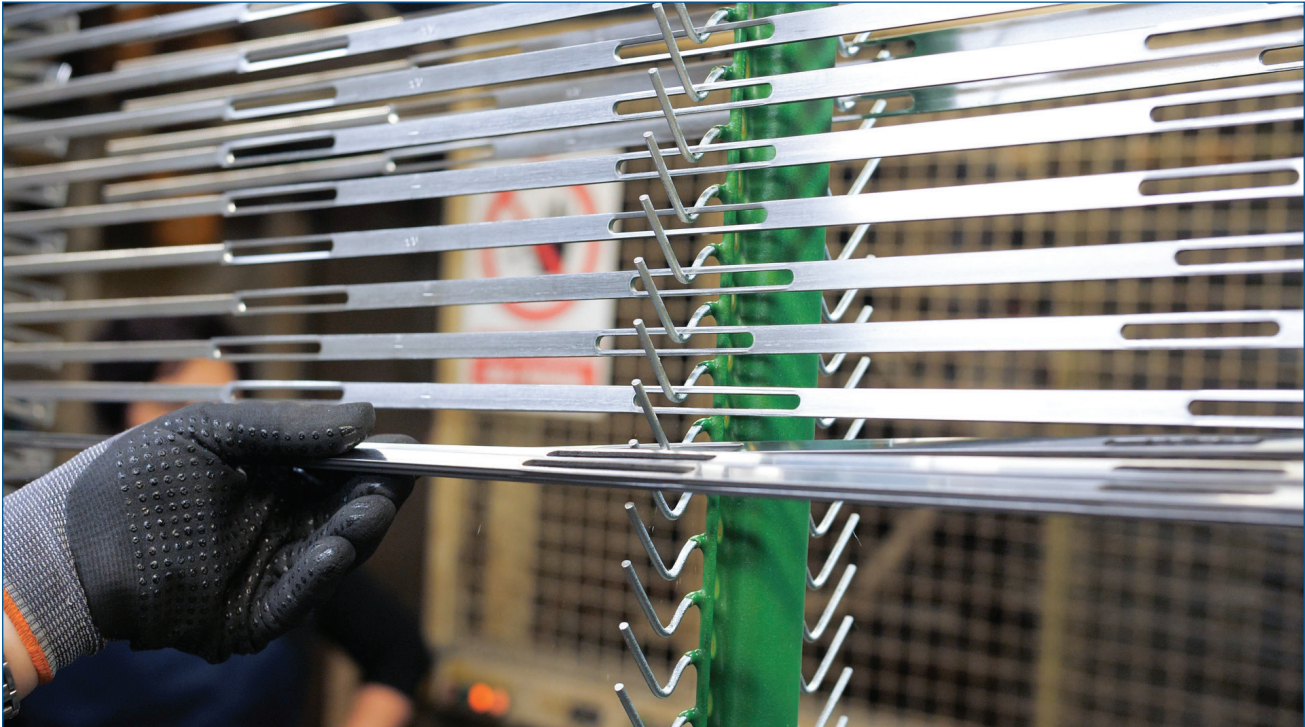
## **ARX surface protection and resistance coating ARX**

Surface protection and resistance coating ARX Coat, provided by Kovino-plastika Lož is one of the best on the market.

Testing of corrosion resistant coating is carried out in our salt chamber according to standard ISO 9227 (NSS). It is done periodically, so we control the whole process. In case of deviations from perfect surface protection, immediate actions are applied to the manufacturing process to produce only the best products.

ARX building hardware suits the highest requirements of corrosion resistance as it reaches the 5th grade according to the standard EN 1670. That is an equivalent of 480 hours of salt spray.

ARX Coat is a proper surface protection, which provides good anti-corrosion durability and a trendy silver appearance, all due to our ARX internal processes.



### Versatile hardware

ARX SPIN hardware can be used for PVC & timber windows and ALU windows with Euro-groove 16 mm. Many top design features offer a reliable operation, security, and functionality.

#### The main features of ARX SPIN hardware are:

- Best solutions for PVC & timber windows and ALU windows with Eurogroove 16 mm.
- High quality and smooth operation after years of use thanks to the ROLLING CAMS and the reduced contact area between the parts of hardware where sliding contact occurs.
- ARX SPIN for simple, fast and efficient installation with SNAP FUNCTION Slider & Straight cut.
- Wide range of applications and the possibility of combination with other product groups.
- High quality production and installation of individual hardware sets by using highly automated production.
- Easy adjustment for different window dimensions, shapes, and constructions.
- ARX SPIN for PVC profiles achieves the highest level of H3 according to the certification scheme QM328.
- ARX SPIN for TIMBER profiles achieves the level of H2 according to the certification scheme QM328.
- Guarantee of the Lifetime Warranty for functionality.
- Providing the 10-year warranty for the ARX Coat the highest corrosion protection Grade 5 according to EN1670 (480 hours exposure to salt spray).
- Possibility of R CAMS & RS cams:
  - a) R cams incorporate a regulatory function which allows installer or user to optimize the window compression by +/- 1.2 mm (hex key size 4), thereby improving the sealing properties of windows and balcony doors. Moreover, the R cams provide smoother operation to window users who only need to apply a minimum force to operate the handle.
  - b) RS cams provide superior level of security at closing points (with security strikers). Their height adjusts automatically to fit the air gap between sash and frame. The compression can be regulated by +/- 0.8 mm (hex key size 2.5 or spanner 10). The rolling cam enables smoother and easier closing operation. RS cams can be used in combination with both security strikers and standard strikers.



## Manufacturer's standards and certificates

Our certificates present our dedication to the verifiable quality standards for processes and products. We are proud that we have repeatedly earned them. In every certificate, we see undisputed proof of long-term commitment to our partners, employees, and leadership.

### MANAGEMENT SYSTEM CERTIFICATES:

- ISO 9001
- ISO 14001

### CERTIFICATE OF CONFORMITY:

- IFT (QM 328)
- IFT (QM 342)

Kovinoplastika Lož acquired many important standards and certificates. Among them is EN1670 (grade 5) which has been held without interruption.



## 1. Introduction

According to the instructions of the Quality Association for Locks and Hardware (Gütegemeinschaft Schlösser und Beschläge), the VHBH Directive, issued on 11.12.2009 and the manufacturer's responsibility for its products, defined in the Consumer Protection Act (Consumer Protection Act of the Republic of Slovenia, paragraph 2, §4-11a), the following information about the turn-only and tilt&turn hardware for sashes must be observed. Failure to comply with the following information exempts the manufacturer from liability.

## 2. Product information and stipulated application

### 2.1 Quality Assurance Association for Locks and Hardware

(Gütegemeinschaft Schlösser und Beschläge) published in the VHBH Directive states that turn-only and tilt-and-turn hardware is hardware for turnable and tiltable sashes for windows in building construction.

This hardware is used for:

- bringing windows and sashes of windows, by activation of a handle, into a turning position,
- bringing windows and sashes of windows into a tilting position restricted by means of a scissor stay version.

Turn-only and turn&tilt hardware is used for installation in windows and balcony doors which are to be vertically installed, made from timber, PVC, aluminium, and their corresponding combination.

According to the definition above, the regular function of the turn-only and turn & tilt hardware is closing the windows and sashes and opening them in different airing positions. When the sash is closed, the resistance of a gasket normally needs to be overcome.

### 2.2 Misuse – exclusion of liability

Misuse is not compliant with the basic purpose of hardware. Anti-theft windows and balcony doors for wet spaces and installation in aggressive and corrosive climate require special hardware with particularly defined characteristics, adjusted to individual building case.

### 2.3 Restrictions on the use

Open windows, sashes and balcony doors only have protective function and do not provide window fissure sealing, safety in heavy rain or snow, sound and thermal insulation and anti-theft protection. In windy weather and in case of draught, windows and sashes must be closed and bolted. Windy weather and draught logically mean that a window, a sash or balcony doors open and close automatically and uncontrollably in one of the open positions due to air pressure or whirlwind. The only way to make a window, sash or balcony doors fixedly open, is to install additional hardware elements.

### 2.4 Use in case of special requirements

Wind resistance of the closed and bolted window depends on the actual structure of window and balcony doors. In case a window (or a sash or balcony door) has to endure wind load, according to the DIN EN 12210 standards (in particular pressure test p3), suitable hardware compilations are to be

matched in relation to the respective window design and frame material, and each case individually agreed upon.

Anti-theft windows and balcony doors for wet spaces and installation in aggressive and corrosive climate require special hardware with particularly defined characteristics, adjusted to individual building case.

In general, the turn-only, turn & tilt and tilt hardware meets the requirements according to the DIN 18025 standards, applicable to open-type buildings. To this end, particular agreements and adjustments regarding the appropriate hardware structure and its installation on windows and balcony doors are required.

## 3. Misuse of the product

Misuse of the turn only and turn & tilt hardware for window and balcony doors (i.e. the use, non-compliant with intended use of the product) includes the following:

- inserting obstacles in the opening vicinity between the frame and sash and thus preventing the proper specified use,
- if, contrary to the instructions of use, the window or the sash is uncontrollably pushed toward the window reveals (e.g. because of the wind), causing damage or destruction of hardware, sash material or other parts of the window and the sash,
- additional load on the windows or balcony door sashes (if, for example, children swing on the windows or balcony door sashes),
- inserting a hand or an object into the rebate between the window and the sash when closing the window or balcony doors (risk of injury).

## 4. Product warranty

The manufacturer of ARX building hardware provides a lifetime warranty on functionality and a 10-year warranty on surface protection, starting from the date of delivery of goods that is defined or can be defined and applies to the territory of the EU.

The warranty applies exclusively to the use of ARX building hardware components. In case of combining ARX building hardware components with components of other manufacturers, this warranty is void. The warranty applies to all manufacturers and suppliers of doors and windows who use ARX building hardware, delivered at their delivery or production after April 1, 2021.

For more information please check warranty conditions on webpage - [www.arx-hardware.com](http://www.arx-hardware.com).

## 5. Product characteristics – manufacturer's instructions for use

### 5.1 Maximum sash weights

The maximum sash weight for individual hardware installation must not be exceeded. The construction element with the smallest possible permissible load defines the maximum weight of the sash. Application diagrams and component classification must be considered.

## 5.2 Sash sizes

Application diagrams show the relationship between the permissible sash rebate heights, depending on various glass weights i.e. total glass weight. The calculated sash dimensions in the rebate or the sash formats (portrait and/or landscape format), as well as the maximum sash weight must not be exceeded under any circumstances.

## 5.3 Hardware combination

The manufacturer's regulations, regarding the combination of hardware (i.e. the application of additional stay arms, the hardware design for anti-theft windows and balcony door sashes), must be followed.

## 5.4 Hardware functionality

Permanent hardware functionality can be ensured by consistently following the rules below:

- Professional installation of hardware components must be performed according to the attached instructions for installation,
- hardware assembly in the process of window installation is to be done professionally,
- the window manufacturer must deliver the instructions for use and maintenance to the user, along with the guidelines regarding product warranty,
- hardware as a whole can only consist of the original ARX building hardware; any product warranty is excluded for simultaneously using hardware parts, not originally belonging to the ARX building hardware.

## 6. Product maintenance

Hardware components, important for safety, must be checked at least once a year for fitting tightness and tight fitting. If necessary, the fixing screws can be additionally fastened and the component parts replaced. The following maintenance work must be performed at least once a year:

- Greasing and functional control of all the movable parts and all the locking points of the turn-only and tilt & turn hardware.
- only the cleaning and maintenance agents, which do not reduce the anti-corrosion hardware protection, may be used.

Hardware – particularly in the vicinity of the pivot rest and the scissor-stay, as well as replacement parts and the un-hinging & hinging of the active sash – must be provided by highly-qualified experts. In case of surface treatment for windows and balcony doors (e.g. varnishing), all the hardware components must be excluded from treatment; they must also be protected against potential contamination, caused by surface treatment.

### 6.1 Maintaining the quality of surface treatment

In normal climate, the galvanized coating is not damaged by corrosion, as long as condensed water is not produced in hardware parts or if the condensed water quickly dries up.

In order to maintain long-lasting quality of surface treatment and prevent adverse corrosion effects, the instructions below must be followed:

- Hardware and window rebates must be thoroughly aired (particularly during the construction phase)

by making sure that the elements mentioned are not exposed to moisture and condensed water,

- hardware must be protected against any covers or contamination with building materials (e.g. roughcast, dust, cement and the like),
- aggressive vapours in the window rebate (e.g. formic acid and acetic acid, ammonia, amino- and ammonium compounds, aldehyde, phenol, tannic acid etc.) may quickly lead to corrosion of hardware components in combination with a small amount of condensed water; in case of aggressive vapours, thorough airing of rebates on the windows and balcony doors must be provided; this is particularly important for windows and balcony doors made of oak and other types of wood, containing a large amount of tannic acid,
- gaskets with acetic acid or acidic net structure or gaskets, containing the above mentioned ingredients must not be used, as the direct contact with the gasket and its vapours may corrode the hardware surface,
- hardware can only be cleaned with soft, ph-neutral cleaning agent in diluted form; aggressive, acidiferous cleaners or abrasive cleaning agents, containing the above mentioned ingredients, must not be used at any time.

## 7. Information and instructions

In order to carry out duties of informing and giving instructions and performing maintenance according to »Consumer Protection Act«, the following publications are available:

- »Catalogues« for designers and authorized dealers
- »Installation instructions« and »factory drawings« for manufacturers of windows and balcony doors,
- »instructions for maintenance and cleaning« and »Instructions for use« for investors and users.

In order to ensure the functionality of the turn-only, turn&tilt and slide hardware for windows and balcony doors, the following rules must be observed:

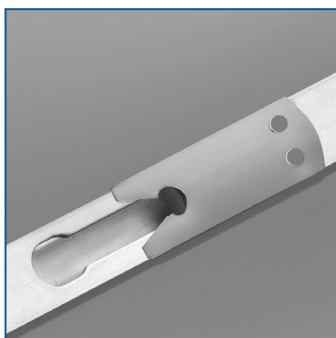
- The designers are required to obtain information from the manufacturer or the authorized dealer, regarding the products, and act accordingly,
- the authorized dealers must pay attention to product information and the information mentioned herein, along with installation instructions, factory drawings and instructions for maintenance and cleaning; they must obtain instructions for use from the manufacturer and pass them on to manufacturers of windows and balcony doors,
- the manufacturers of windows and balcony doors must consider all the relevant product information and ask the manufacturer or authorized dealer for maintenance and cleaning instructions in particular, along with instructions for use and pass them on to investors and users.

All information regarding turn & tilt, turn only hardware systems for windows and balcony doors should be observed. In case of non-compliance the manufacturer is exempt from liability.



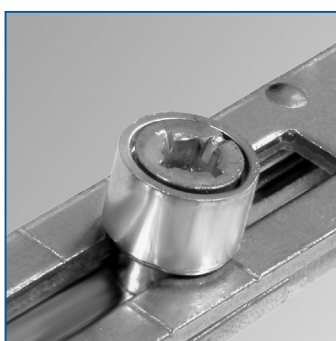
## ARX Coat – High quality surface protection

ARX Coat surface protection gives excellent appearance to building hardware and simultaneously ensures long-term and durable surface. It maintains very high corrosion resistance in severe conditions and extreme climate, exceeding Grade 5 of BS EN1670 (480 hours exposure to salt spray), thereby guaranteeing long-term and simple use.



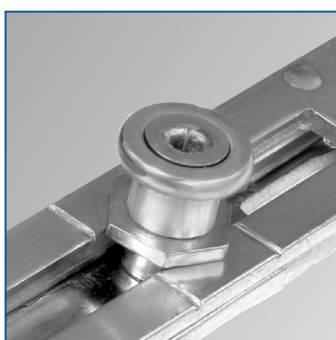
## Stay guide with integrated anti-slam lock

Integrated tilt lock keeps the sash in tilted position, thus preventing sash slamming in windy conditions. It can be moved into alternative position, to reduce the tilt.



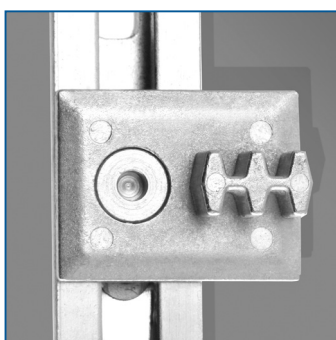
## R cam

R cams incorporate a regulatory function which allows installer or user to optimize the window compression by +/- 1,2mm, thereby improving the sealing properties of windows and balcony doors. Moreover, the R cams provide smoother operation to window users who only need to apply a minimum force in order to operate the handle.



## RS cam

RS cams provide superior level of security at closing points (with security strikers). Their height adjusts automatically to fit the air-gap between sash and frame. The compression can be regulated by +/- 0.8mm (hex key size 2.5 or spanner size 10). The rolling cam enables smoother and easier closing operation. RS cams can be used in combination with both security strikers or standard strikers.



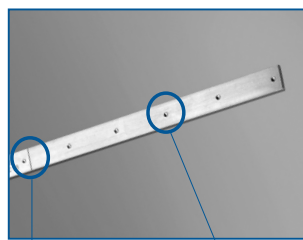
## Night vent

Night vent allows gentle circulation of air through its gap in case of hot weather or in order to prevent glass condensation, or even mould forming. The window handle is set at the 45 degree angle between the two open positions.



## Additional features

ARX Spin hardware is available in extensive variety of components, which can be combined into a number of turn & tilt solutions. ARX Spin therefore easily meets desires and requirements of different customers. For instance, a wide range of corner drives and shoot-bolts provides an excellent product choice to both very demanding and less stringent security requirements.



Range of use Re-formed face plate

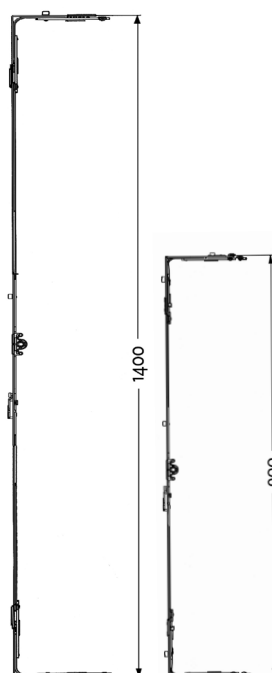


### Reduced friction between driving rod and faceplate

The espagnolettes have been redesigned to reduce the contact between the gearplate and faceplate, thereby reducing potential damage to surface protection.

### Uniform length of redesigned espagnolettes







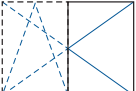
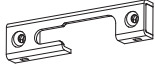

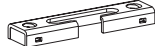

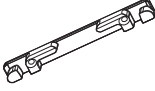













A special feature of ARX Spin hardware is also uniform length of its espagnolettes. A one-size espagnolette can fit a range of sash dimension, covering up to 50% of total requirement. Each espagnolette can be cropped within the marked cut-off area.



SRH 900 - 1400 mm  
(50% Volume)

## Symbols

In the part describing the ARX Spin, different symbols, diagrams and tables are used in order to provide a clear picture and demonstration of the hardware application. The meanings are as follows:

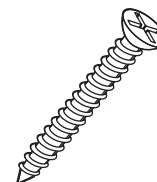
	Turn & tilt		R cam																								
	Turn only		RS cam																								
	Tilt only		Standard striker																								
	Turn only - sec. sash		Security striker																								
	Rebate sash height		T&Ti security striker																								
	Rebate sash width		T&T striker																								
	Handle height		Screws																								
	R cam		Mishandling device position																								
	RS cam		Packaging																								
	Night vent		Warning																								
	Max. sash mass		Length / dimension																								
	Material number		Hardware shortening																								
	Orientation / position	<table border="1"> <thead> <tr> <th>Abbreviation</th> <th>Description</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>SRH</td> <td>SASH REBATE HEIGHT</td> <td>mm</td> </tr> <tr> <td>SRW</td> <td>SASH REBATE WIDTH</td> <td>mm</td> </tr> <tr> <td>HH</td> <td>HANDLE HEIGHT</td> <td>mm</td> </tr> <tr> <td>MS</td> <td>MISHANDLING DEVICE POSITION</td> <td>mm</td> </tr> <tr> <td>BS</td> <td>BACKSET</td> <td>mm</td> </tr> <tr> <td>LH</td> <td>LOCK HOLE POSITION</td> <td>mm</td> </tr> <tr> <td>HL</td> <td>HANDLE LENGTH</td> <td>mm</td> </tr> </tbody> </table>		Abbreviation	Description	Units	SRH	SASH REBATE HEIGHT	mm	SRW	SASH REBATE WIDTH	mm	HH	HANDLE HEIGHT	mm	MS	MISHANDLING DEVICE POSITION	mm	BS	BACKSET	mm	LH	LOCK HOLE POSITION	mm	HL	HANDLE LENGTH	mm
Abbreviation	Description	Units																									
SRH	SASH REBATE HEIGHT	mm																									
SRW	SASH REBATE WIDTH	mm																									
HH	HANDLE HEIGHT	mm																									
MS	MISHANDLING DEVICE POSITION	mm																									
BS	BACKSET	mm																									
LH	LOCK HOLE POSITION	mm																									
HL	HANDLE LENGTH	mm																									



## Fixing guidelines

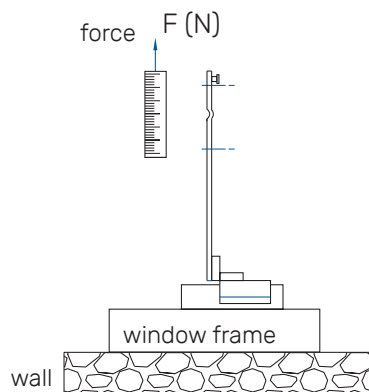
### Screws

In order to fix hardware components, silver galvanized, steel construction screws of 4,2 x 25 mm and 4,2 x 35 mm are used. The 35 mm long screws are used for the hinges and the 25 mm long screws are used for all the rest of hardware. The window manufacturer must ensure sufficient fixing of hardware components. If necessary, the manufacturer of construction screws may also be included in the process of installing hardware.



### Fixing of hardware

Sash mass [Kg]	F [N]
60	1650
70	1900
80	2200
90	2450
100	2710
110	3000
120	3250
130	3500
140	3900
150	4200
160	4400
170	4710
180	5000
190	5300
200	5500



### Fixing

When fixing safety relevant bearing hardware components (stay bearing and pivot rest), the vertical tractive force on the sash level must reach the values according to the following table (the tractive force values in dependence of the sash weight according to directive TBDK).

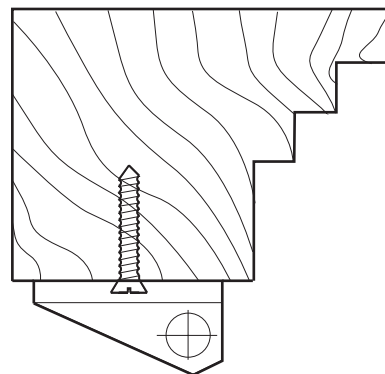
### The necessity of reinforcement

The values in the table for sashes up to 80 kg in weight are normally achieved if high-quality screws are used for fixing and the fixing on the profile is performed through at least two profile walls. The thickness of the first profile wall must be at least 2,8 mm. For sash weights over 80 kg, a supplementary fixing into the reinforcement profile or profile insertions in accordance with the profile system, is necessary. Required values can be achieved without additional measures by using the bearing parts on sashes up to 100 kg in weight.

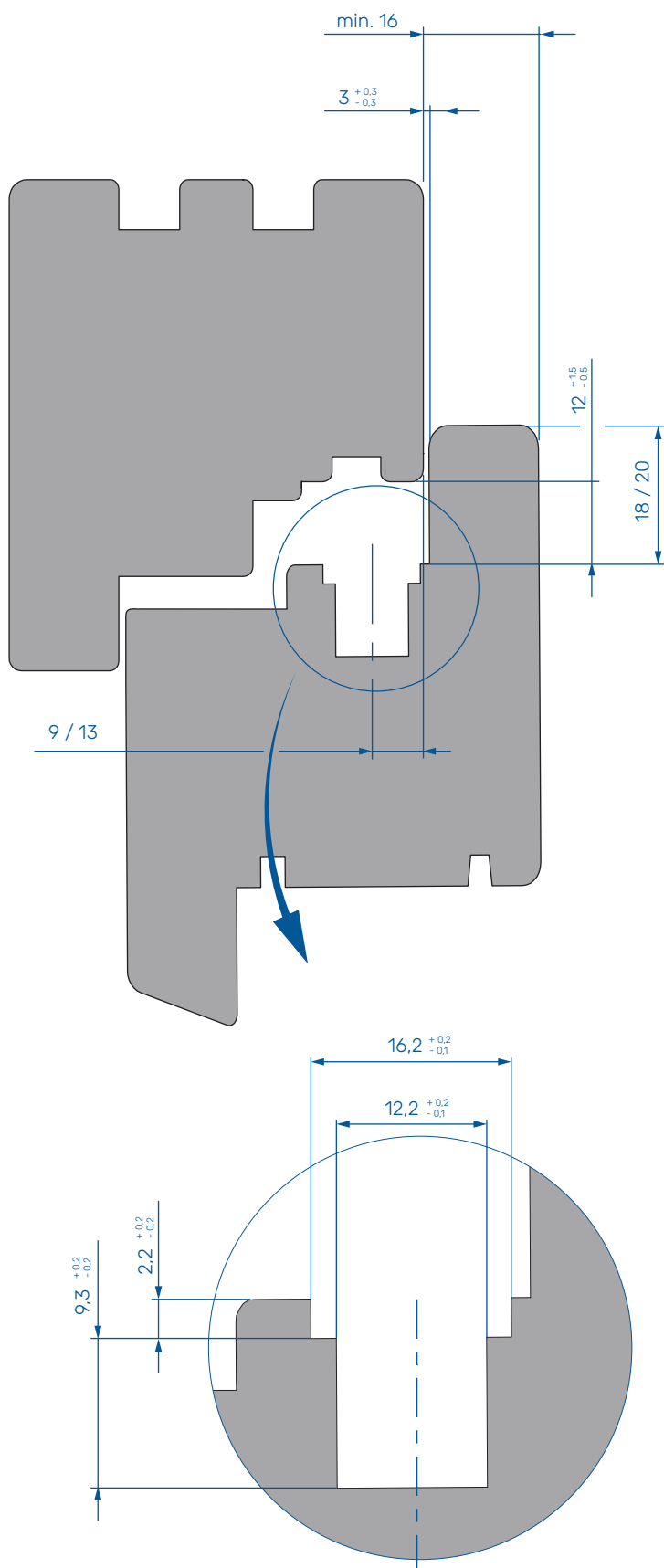
Gaskets with acetic acid net structure must not be used, as their use may lead to corrosion of hardware components. Guidelines regarding the window glazing technique must be followed.

### The use of related hardware types

Different options within the individual hardware system (e.g. tilt hardware) must be considered according to the product information, purpose, misuse, product characteristics, maintenance, information and instructions in regard to the characteristics of the hardware assembly.



# Profile dimensioning for TIMBER





# Typical hardware schemes

Basic schemes  
Proposed guidelines

# T&TI | FACE-FIT HINGE SIDE

Fixed handle height

## 1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Length	Material
320 - 460 <sup>1)2)</sup>	120	320	1105430
461 - 600 <sup>3)</sup>	170	410	1118431
601 - 800	263	520	1115131
801 - 1000	413	720	1115132
801 - 1000	413	720	1 R 1115133
1001 - 1200	513	920	1 R 1115134
1201 - 1400	563	1120	1 R 1115135
1401 - 1600	563	1320	1 R 1115136
1601 - 1800	563	1520	1 R 1115137
1601 - 1800	1000	1520	1 R 1115167
1801 - 2000	1000	1720	2 R 1115138
2001 - 2200	1000	1920	2 R 1115139
2201 - 2400	1000	2120	2 R 1115140

## 2 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

## 3 SASH STAY GUIDE

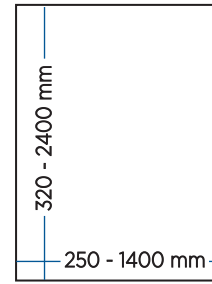
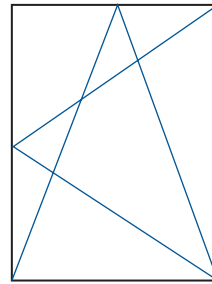
Sash rebate width	Type / length	Material Nr.
250 - 410 <sup>4)</sup>	150 / 290	1123308
411 - 610	250 / 470	1083038
611 - 810	350 / 670	1083039
811 - 1010	500 / 870	1 R 1083040
1011 - 1210	500 / 1070	1 R 1083041
1211 - 1400	500 / 1270	1 R 1083042

## 4 STAY ARM

Sash rebate width	Type / length	Pos.	Material
250 - 410 <sup>4)</sup>	150	L	1131562
		R	1131563
411 - 610	250	L	1096075
		R	1096076
611 - 810	350	L	1096077
		R	1096078
811 - 1400	500	L	1096079
		R	1096080

## 5 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1600	800 / 850	2 R 1083059
1601 - 2200	1500 / 1550	3 R 1083060
2201 - 2400	1950 / 2000	4 R 1083064



## 6 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
801 - 1200	400	1 R 1083061
1201 - 1400	600	1 R 1083062

## 7 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 RS	1100983
SHORT CORNER DRIVE	1 RS	1100986

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R	SYSTEM 12/18-13
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1107263

## 9 CORNER HINGE

CORNER HINGE - L	SYSTEM 12/18-13
CORNER HINGE - R	1096619

1096621

## 10 CORNER PIVOT REST

CORNER PIVOT REST - L	SYSTEM 12/18-13
CORNER PIVOT REST - R	1083248

1083249

## 11 MISHANDLING DEVICE

SASH PART	1093907
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## 12 STRIKERS

T&Ti STRIKER	PAGE 90
STRIKER	PAGE 90

## 13 COVER CAPS

STAY BEARING	PAGE 88
STAY ARM	PAGE 88
CORNER HINGE	PAGE 88
CORNER PIVOT REST	PAGE 88

<sup>1)</sup> WITH INTEGRATED CORNER DRIVE 1 RS ON BOTTOM

<sup>2)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>3)</sup> MUST USE SHORT CORNER DRIVE 1100986 ON BOTTOM

<sup>4)</sup> SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

\* SRH < 500 mm, move the anti-slam device to reduce the tilt

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H}$ :  $\leq 1,5$
  - sash size  $H_{max}$ :  $\leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

# T&TI | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Length	Material
420 - 620 <sup>1)</sup>	165 - 310	340	1083117
600 - 1000	300 - 500	720	1 R 1088473
900 - 1400	450 - 700	1120	1 R 1098964
1401 - 1800	701 - 900	1520	1 R 1098965
1601 - 2000	801 - 1000	1720	2 R 1098966
2001 - 2400	1001 - 1200	2120	2 R 1098967

## 2 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

## 3 SASH STAY GUIDE

Sash rebate width	Type / length	Material Nr.
250 - 410 <sup>2)</sup>	150 / 290	1123308
411 - 610	250 / 470	1083038
611 - 810	350 / 670	1083039
811 - 1010	500 / 870	1 R 1083040
1011 - 1210	500 / 1070	1 R 1083041
1211 - 1400	500 / 1270	1 R 1083042

## 4 STAY ARM

SYSTEM 12/18-13

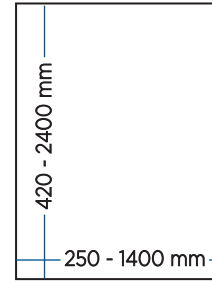
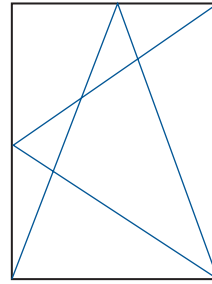
Sash rebate width	Type / length	Pos.	Material
250 - 410 <sup>2)</sup>	150	L	1131562
		R	1131563
411 - 610	250	L	1096075
		R	1096076
611 - 810	350	L	1096077
		R	1096078
811 - 1400	500	L	1096079
		R	1096080

## 5 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1600	800 / 850	2 R 1083059
1601 - 2200	1500 / 1550	3 R 1083060
2201 - 2400	1950 / 2000	4 R 1083064

## 6 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
801 - 1200	400	1 R 1083061
1201 - 1400	600	1 R 1083062



## 7 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE

1 RS 1100983

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R

SYSTEM 12/18-13

1107263

## 9 CORNER HINGE

CORNER HINGE - L  
CORNER HINGE - R

SYSTEM 12/18-13

1096619  
1096621

## 10 CORNER PIVOT REST

CORNER PIVOT REST - L  
CORNER PIVOT REST - R

SYSTEM 12/18-13

1083248  
1083249

## 11 MISHANDLING DEVICE

SASH PART  
FRAME PART

1093907  
PAGE 92

## 12 STRIKERS

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## 13 COVER CAPS

STAY BEARING  
STAY ARM  
CORNER HINGE  
CORNER PIVOT REST

PAGE 88  
PAGE 88  
PAGE 88  
PAGE 88

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>2)</sup> SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

\* SRH < 500 mm, move the anti-slam device to reduce the tilt

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

**Glass mass [kg/m<sup>2</sup>]**

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

**Conditions for the use of the application diagram:**

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{g/h}$ :  $\leq 1,5$
  - sash size  $H_{max}$ :  $\leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

# T&T | FACE-FIT HINGE SIDE

Fixed handle height

## 1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Length	Material
550 - 600	260	410	1118431
601 - 800	263	520	1115131
801 - 1000	413	720	1115132
801 - 1000	413	720	1 R 1115133
1001 - 1200	513	920	1 R 1115134
1201 - 1400	563	1120	1 R 1115135
1401 - 1600	563	1320	1 R 1115136
1601 - 1800	563	1520	1 R 1115137
1601 - 1800	1000	1520	1 R 1115167
1801 - 2000	1000	1720	2 R 1115138
2001 - 2200	1000	1920	2 R 1115139
2201 - 2400	1000	2120	2 R 1115140

## 2 CORNER DRIVE

STANDARD CORNER DRIVE	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

## 3 SASH STAY GUIDE

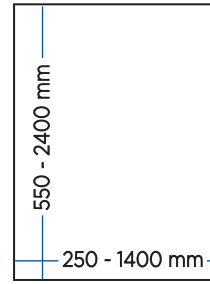
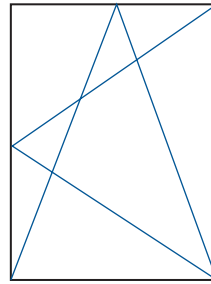
Sash rebate width	Type / length	Material Nr.
250 - 410 <sup>1)</sup>	150 / 290	1123308
411 - 610	250 / 470	1083038
611 - 810	350 / 670	1083039
811 - 1010	500 / 870	1 R 1083040
1011 - 1210	500 / 1070	1 R 1083041
1211 - 1400	500 / 1270	1 R 1083042

## 4 STAY ARM

Sash rebate width	Type / length	Pos.	Material
250 - 410 <sup>1)</sup>	150	L	1131562
		R	1131563
411 - 610	250	L	1096075
		R	1096076
611 - 810	350	L	1096077
		R	1096078
811 - 1400	500	L	1096079
		R	1096080

## 5 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1600	800 / 850	2 R 1083059
1601 - 2200	1500 / 1550	3 R 1083060
2201 - 2400	1950 / 2000	4 R 1083064



## 6 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059

## 7 TILT LOCK BOLT

TILT LOCK BOLT SRH < 1000 mm	1102388
TILT LOCK BOLT SRH > 1001 mm	1102391

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R	SYSTEM 12/18-13
	1107263

## 9 CORNER HINGE

CORNER HINGE - L	SYSTEM 12/18-13
CORNER HINGE - R	1096619
	1096621

## 10 CORNER PIVOT REST

CORNER PIVOT REST - L	SYSTEM 12/18-13
CORNER PIVOT REST - R	1083248
	1083249

## 11 MISHANDLING DEVICE

SASH PART	1093907
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## 12 STRIKERS

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STRIKER	PAGE 90

## 13 COVER CAPS

STAY BEARING	PAGE 88
STAY ARM	PAGE 88
CORNER HINGE	PAGE 88
CORNER PIVOT REST	PAGE 88

<sup>1)</sup> SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

\* SRH < 500 mm, move the anti-slam device to reduce the tilt



**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H}$ :  $\leq 1,5$
  - sash size  $H_{max}$ :  $\leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

# T&T | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Length	Material
420 - 620 <sup>1)</sup>	210 - 310	340	1083117
600 - 1000	300 - 500	720	1 R 1088473
900 - 1400	450 - 700	1120	1 R 1098964
1401 - 1800	701 - 900	1520	1 R 1098965
1601 - 2000	801 - 1000	1720	2 R 1098966
2001 - 2400	1001 - 1200	2120	2 R 1098967

## 2 CORNER DRIVE

STANDARD CORNER DRIVE	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

## 3 SASH STAY GUIDE

Sash rebate width	Type / length	Material Nr.
250 - 410 <sup>2)</sup>	150 / 290	1123308
411 - 610	250 / 470	1083038
611 - 810	350 / 670	1083039
811 - 1010	500 / 870	1 R 1083040
1011 - 1210	500 / 1070	1 R 1083041
1211 - 1400	500 / 1270	1 R 1083042

## 4 STAY ARM

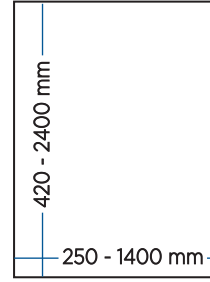
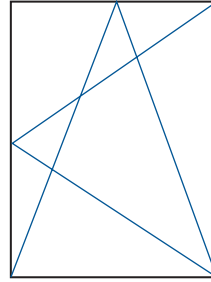
Sash rebate width	Type / length	Pos.	Material
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		R	1131563
411 - 610	250	L	1096075
		R	1096076
611 - 810	350	L	1096077
		R	1096078
811 - 1400	500	L	1096079
		R	1096080

## 5 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1600	800 / 850	2 R 1083059
1601 - 2200	1500 / 1550	3 R 1083060
2201 - 2400	1950 / 2000	4 R 1083064

## 6 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059



## 7 TILT LOCK BOLT

TILT LOCK BOLT SRH < 1000 mm	1102388
TILT LOCK BOLT SRH > 1001 mm	1102391

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R	SYSTEM 12/18-13
	1107263

## 9 CORNER HINGE

CORNER HINGE - L	SYSTEM 12/18-13
CORNER HINGE - R	1096619
	1096621

## 10 CORNER PIVOT REST

CORNER PIVOT REST - L	SYSTEM 12/18-13
CORNER PIVOT REST - R	1083248
	1083249

## 11 MISHANDLING DEVICE

SASH PART	1093907
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## 12 STRIKERS

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STRIKER	PAGE 90

## 13 COVER CAPS

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STAY ARM	PAGE 88
CORNER HINGE	PAGE 88
CORNER PIVOT REST	PAGE 88

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>2)</sup> SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

\* SRH < 500 mm, move the anti-slam device to reduce the tilt

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{\text{gl,HR}} \leq 1,5$
  - sash size  $H_{\text{max}} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

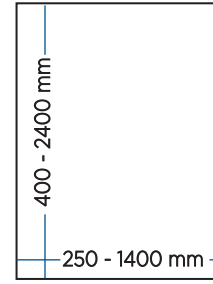
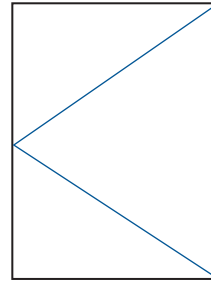
The application diagrams are generated according to IFT guidelines.

# TURN - BASIC | FACE-FIT HINGE SIDE

Fixed handle height

## 1 ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Length	Material
400 - 500 <sup>1)</sup>	170	500	2 R 1083129
501 - 600	170	600	2 R 1083130
601 - 700	263	700	2 R 1083131
701 - 800	263	800	2 R 1083132
801 - 900	413	900	2 R 1083133
901 - 1000	413	1000	2 R 1083134
1001 - 1100	513	1100	3 R 1083135
1101 - 1200	513	1200	3 R 1083136
1201 - 1300	563	1300	3 R 1083137
1301 - 1400	563	1400	3 R 1083138
1401 - 1500	563	1500	3 R 1083139
1501 - 1600	563	1600	3 R 1083140
1601 - 1700	563	1700	3 R 1083141
1701 - 1800	563	1800	4 R 1083142
1800 - 2000	1000	2000	4 R 1083143
2001 - 2200	1000	2200	4 R 1083144
2201 - 2400	1000	2400	4 R 1083145



## 2 REBATE STAY ARM

REBATE STAY ARM - L  
REBATE STAY ARM - R

SYSTEM 12/18-13  
1096113  
1096114

## 3 STAY BEARING

STAY BEARING WITH PIN - L/R

SYSTEM 12/18-13  
1107263

## 4 CORNER HINGE

CORNER HINGE - L  
CORNER HINGE - R

SYSTEM 12/18-13  
1096619  
1096621

## 5 CORNER PIVOT REST

CORNER PIVOT REST - L  
CORNER PIVOT REST - R

SYSTEM 12/18-13  
1083248  
1083249

## 6 MISHANDLING DEVICE

SASH PART  
FRAME PART

1093907  
[PAGE 92](#)

## 7 STRIKERS

STRIKER

[PAGE 90](#)

## 8 CONCEALED STRIKER

SASH PART  
FRAME PART

1127509  
[PAGE 93](#)

## 9 COVER CAPS

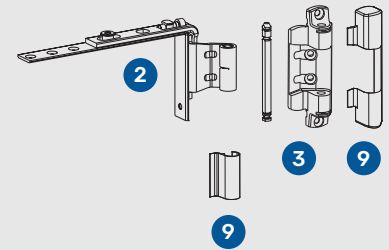
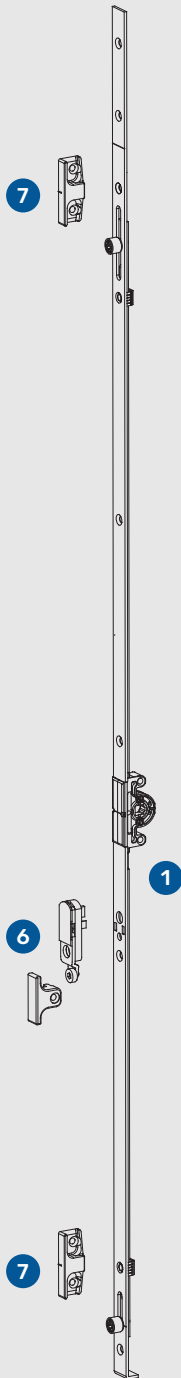
STAY BEARING  
REBATE STAY ARM / STAY ARM  
CORNER HINGE  
CORNER PIVOT REST

[PAGE 88](#)  
[PAGE 88](#)  
[PAGE 88](#)  
[PAGE 88](#)

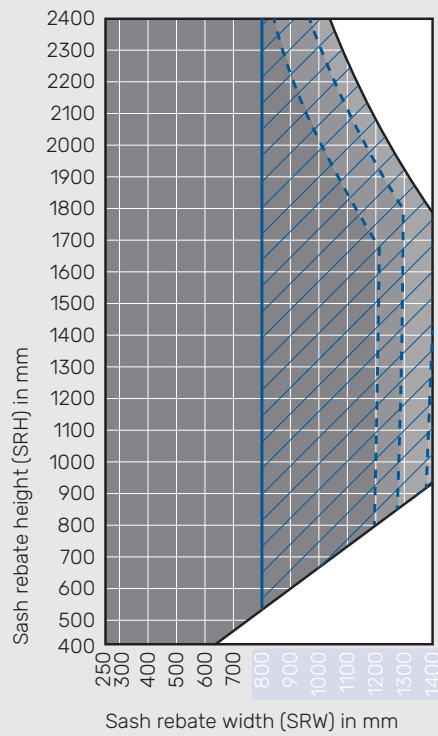
<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* mishandling device serves as a sash lifter

\* for SRW > 800 mm, next scheme (STANDARD) is recommended



APPLICATION DIAGRAM



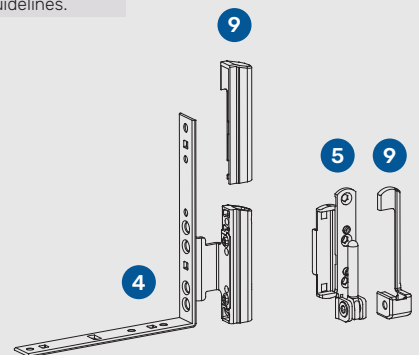
Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

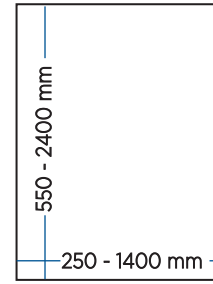
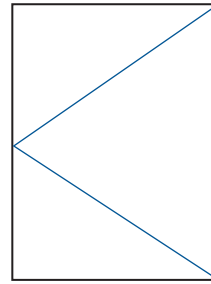


# TURN - STANDARD | FACE-FIT HINGE SIDE

Fixed handle height

## 1 KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material
550 - 600	260	410	1118431
601 - 800	263	520	1115131
801 - 1000	413	720	1115132
801 - 1000	413	720	1 R 1115133
1001 - 1200	513	920	1 R 1115134
1201 - 1400	563	1120	1 R 1115135
1401 - 1600	563	1320	1 R 1115136
1601 - 1800	563	1520	1 R 1115137
1601 - 1800	1000	1520	1 R 1115167
1801 - 2000	1000	1720	2 R 1115138
2001 - 2200	1000	1920	2 R 1115139
2201 - 2400	1000	2120	2 R 1115140



## 2 LOCK BOLT - BOTTOM

LOCK BOLT 140 1 R 1102394

## 3 LOCK BOLT - TOP

LOCK BOLT 140/90 1 R 1102395

## 4 CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059

## 5 REBATE STAY ARM

REBATE STAY ARM - L SYSTEM 12/18-13 1096113  
REBATE STAY ARM - R 1096114

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13 1107263

## 7 CORNER HINGE

CORNER HINGE - L SYSTEM 12/18-13 1096619  
CORNER HINGE - R 1096621

## 8 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13 1083248  
CORNER PIVOT REST - R 1083249

## 9 MISHANDLING DEVICE

SASH PART 1093907  
FRAME PART PAGE 92

## 10 STRIKERS

STRIKER PAGE 90

## 11 CONCEALED STRIKER

SASH PART 1127509  
FRAME PART PAGE 93

## 12 COVER CAPS

STAY BEARING PAGE 88  
REBATE STAY ARM / STAY ARM PAGE 88  
CORNER HINGE PAGE 88  
CORNER PIVOT REST PAGE 88

\* mishandling device serves as a sash lifter

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

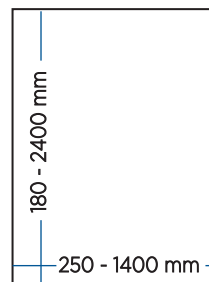
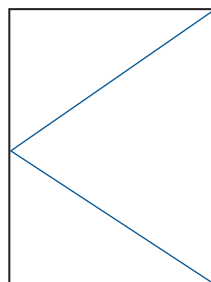
The application diagrams are generated according to IFT guidelines.

# TURN - BASIC | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Length	Material
180 - 250 <sup>1)</sup>	90 - 125	180	1 R 1083163
251 - 500 <sup>1)</sup>	126 - 250	500	1 R 1083164
501 - 900	251 - 450	900	2 R 1083165
901 - 1400	451 - 700	1400	3 R 1083166
1401 - 1900	701 - 950	1900	4 R 1083167
1901 - 2400	951 - 1200	2400	4 R 1083168



## 2 REBATE STAY ARM

REBATE STAY ARM - L  
REBATE STAY ARM - R

SYSTEM 12/18-13  
1096113  
1096114

## 3 STAY BEARING

STAY BEARING WITH PIN - L/R

SYSTEM 12/18-13  
1107263

## 4 CORNER HINGE

CORNER HINGE - L  
CORNER HINGE - R

SYSTEM 12/18-13  
1096619  
1096621

## 5 CORNER PIVOT REST

CORNER PIVOT REST - L  
CORNER PIVOT REST - R

SYSTEM 12/18-13  
1083248  
1083249

## 6 MISHANDLING DEVICE

SASH PART  
FRAME PART

1093907  
PAGE 92

## 7 STRIKERS

STRIKER

PAGE 90

## 8 CONCEALED STRIKER

SASH PART  
FRAME PART

1127509  
PAGE 93

## 9 COVER CAPS

STAY BEARING  
REBATE STAY ARM / STAY ARM  
CORNER HINGE  
CORNER PIVOT REST

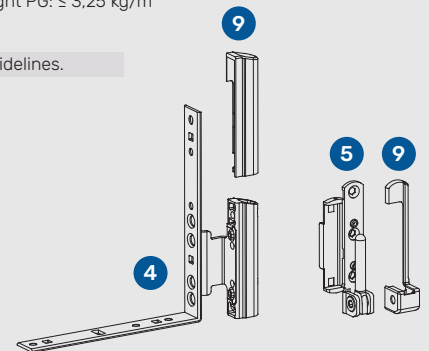
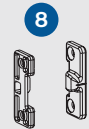
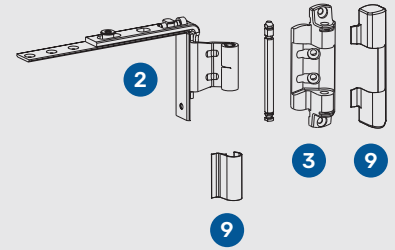
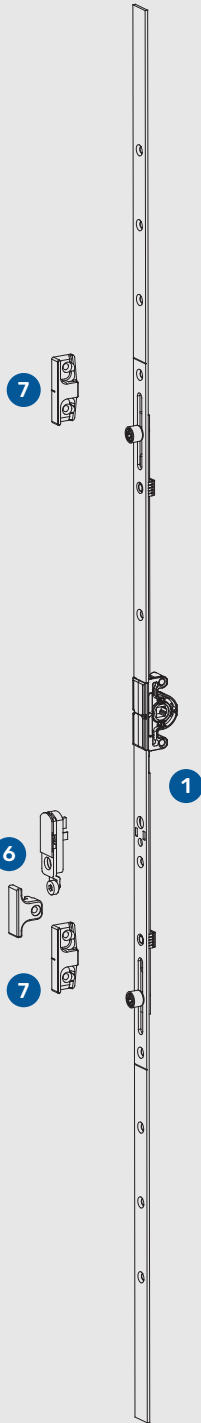
PAGE 88  
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PAGE 88  
PAGE 88

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

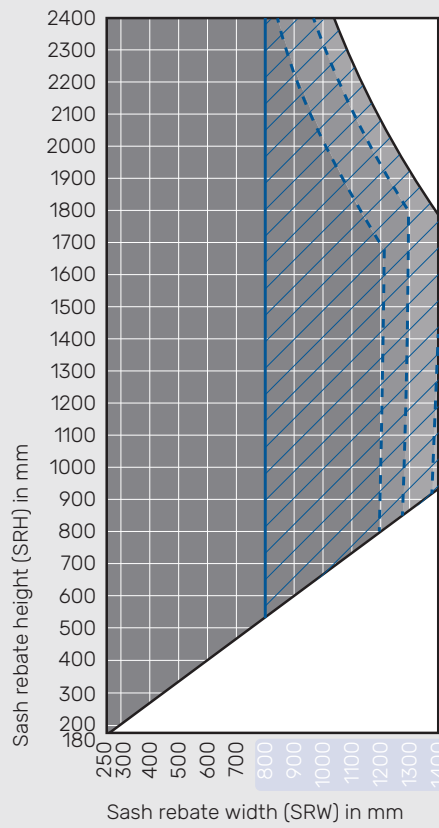
\* mishandling device serves as a sash lifter

\* for SRW > 800 mm, next scheme (STANDARD) is recommended





APPLICATION DIAGRAM



Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{\text{B/H}} \leq 1,5$
  - sash size  $H_{\text{max}} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

# TURN - STANDARD | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material
420 - 620 <sup>1)</sup>	210 - 310	340	1083117
601 - 1000	300 - 500	720	1 R 1088473
900 - 1400	450 - 700	1120	1 R 1098964
1401 - 1800	701 - 900	1520	1 R 1098965
1601 - 200	801 - 1000	1720	2 R 1098966
2001 - 2400	1001 - 1200	2120	2 R 1098967

## 2 LOCK BOLT - BOTTOM

LOCK BOLT 140 1 R 1102394

## 3 LOCK BOLT - TOP

LOCK BOLT 140/90 1 R 1102395

## 4 CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059

## 5 REBATE STAY ARM

REBATE STAY ARM - L SYSTEM 12/18-13 1096113

REBATE STAY ARM - R 1096114

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13 1107263

## 7 CORNER HINGE

CORNER HINGE - L SYSTEM 12/18-13 1096619

CORNER HINGE - R 1096621

## 8 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13 1083248

CORNER PIVOT REST - R 1083249

## 9 MISHANDLING DEVICE

SASH PART 1093907

FRAME PART [PAGE 92](#)

## 10 STRIKERS

STRIKER [PAGE 90](#)

## 11 CONCEALED STRIKER

SASH PART 1127509

FRAME PART [PAGE 93](#)

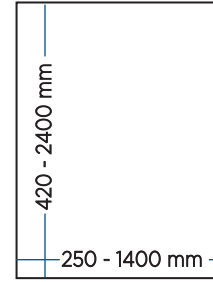
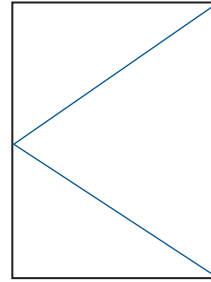
## 12 COVER CAPS

STAY BEARING [PAGE 88](#)

REBATE STAY ARM / STAY ARM [PAGE 88](#)

CORNER HINGE [PAGE 88](#)

CORNER PIVOT REST [PAGE 88](#)



<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* mishandling device serves as a sash lifter

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

**Glass mass [kg/m<sup>2</sup>]**

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

**Conditions for the use of the application diagram:**

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{\text{SRH}}$ :  $\leq 1,5$
  - sash size  $H_{\text{max}}$ :  $\leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

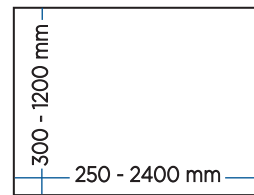
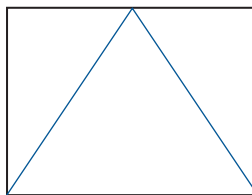
The application diagrams are generated according to IFT guidelines.

# TILT - BASIC | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 ESPAGNOLETTE M BS 14,5 mm

Sash rebate width	Handle width	Length	Material
250 - 500	125 - 250	500	1 R 1083164
501 - 900	251 - 450	900	2 R 1083165
901 - 1400	451 - 700	1400	3 R 1083166
1401 - 1900	701 - 950	1900	4 R 1083167
1901 - 2400	951 - 1200	2400	4 R 1083168



## 2 REBATE CENTER HINGE

REBATE CENTER HINGE - adjustable

SYSTEM 12/18-13  
1096617

## 3 STAY BEARING

STAY BEARING WITH PIN - L/R

1107263

## 4 TILT STAY

TILT STAY for GROOVE  
TILT STAY for ESPAGNOLETTE

1099154  
1099152

## 5 STRIKERS

STRIKER

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## 6 PACKERS

REBATE CENTER HINGE PACKER

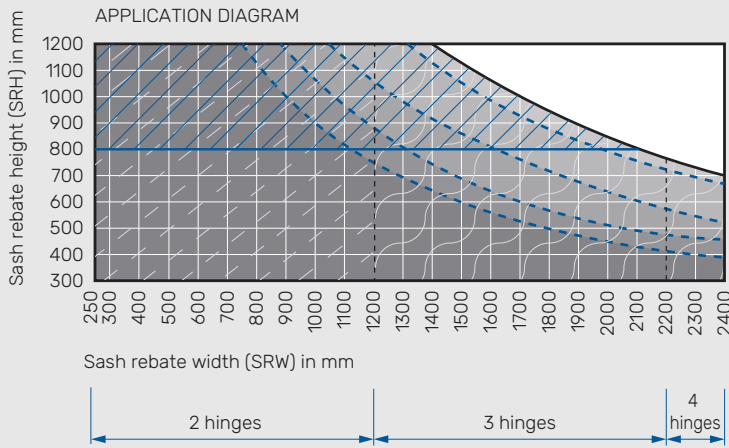
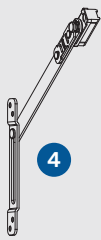
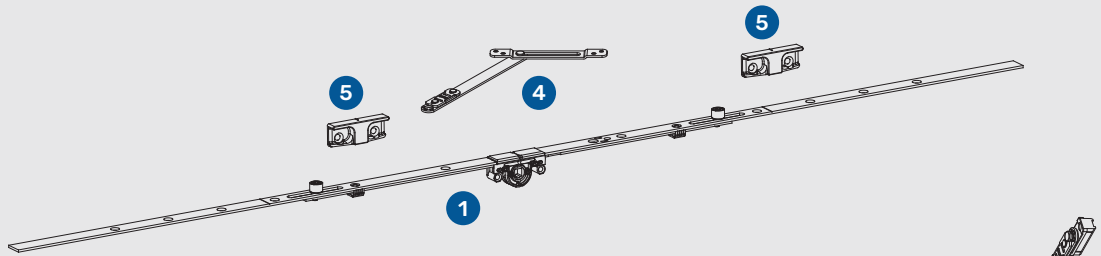
1094661

## 7 COVER CAPS

STAY BEARING  
REBATE CENTER HINGE / STAY ARM

PAGE 88  
PAGE 88

\* for SRH > 800 mm, next scheme (STANDARD) is recommended



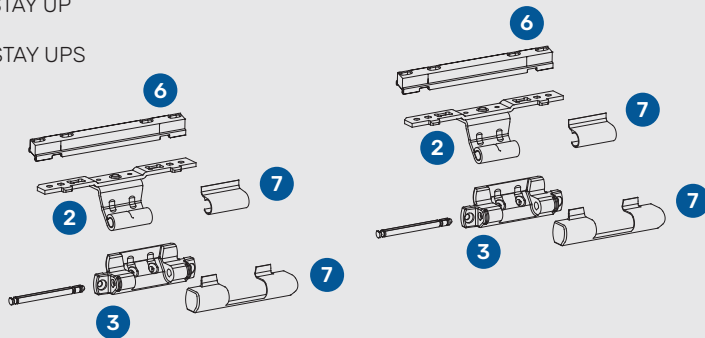
Conditions for the use of the application diagram:

- Glass deduction dim. CG:  $\geq 28$  mm,
- profile weight PG:  $\leq 3,25$  kg/m.

\* The application diagrams are generated according to IFT guidelines.

⚠ TILT STAYS MUST BE INSTALLED ON BOTH SIDES - recommended by directive FPKF

- ONE TILT STAY UP
- TWO TILT STAY UPS

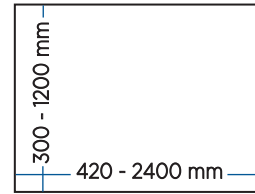
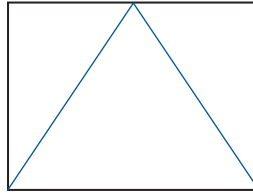


# TILT - STANDARD | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate width	Handle width	Lenght	Material
420 - 620	210 - 310	340	1083117
601 - 1000	300 - 500	720	1 R 1088473
900 - 1400	450 - 700	1120	1 R 1098964
1401 - 1800	701 - 900	1520	1 R 1098965
1601 - 2000	801 - 1000	1720	2 R 1098966
2001 - 2400	1001 - 1200	2120	2 R 1098967



## 2 LOCK BOLT

LOCK BOLT 140 1 R 1102394

## 3 LOCK BOLT

LOCK BOLT 140/90 1 R 1102395

## 4 CENTER LOCK

Sash rebate height	Lenght	Material
801 - 1200	500/550	2 R 1083058

## 5 REBATE CENTER HINGE

REBATE CENTER HINGE - adjustable SYSTEM 12/18-13 1096617

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R 1107263

## 7 TILT STAY

TILT STAY for GROOVE 1099154  
TILT STAY for ESPAGNOLETTE / CENTER LOCK 1099152

## 8 STRIKERS

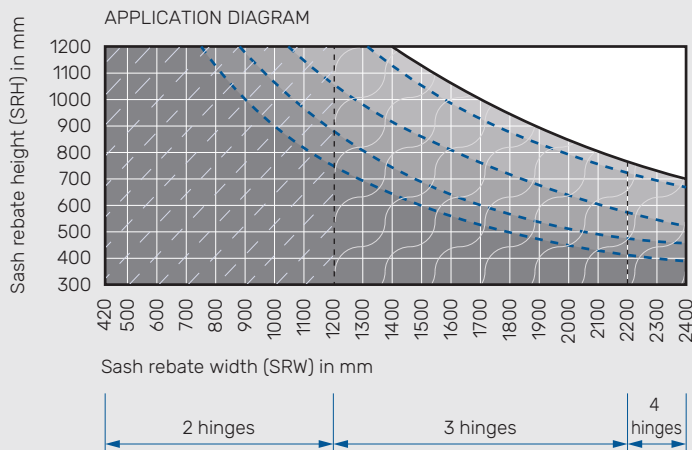
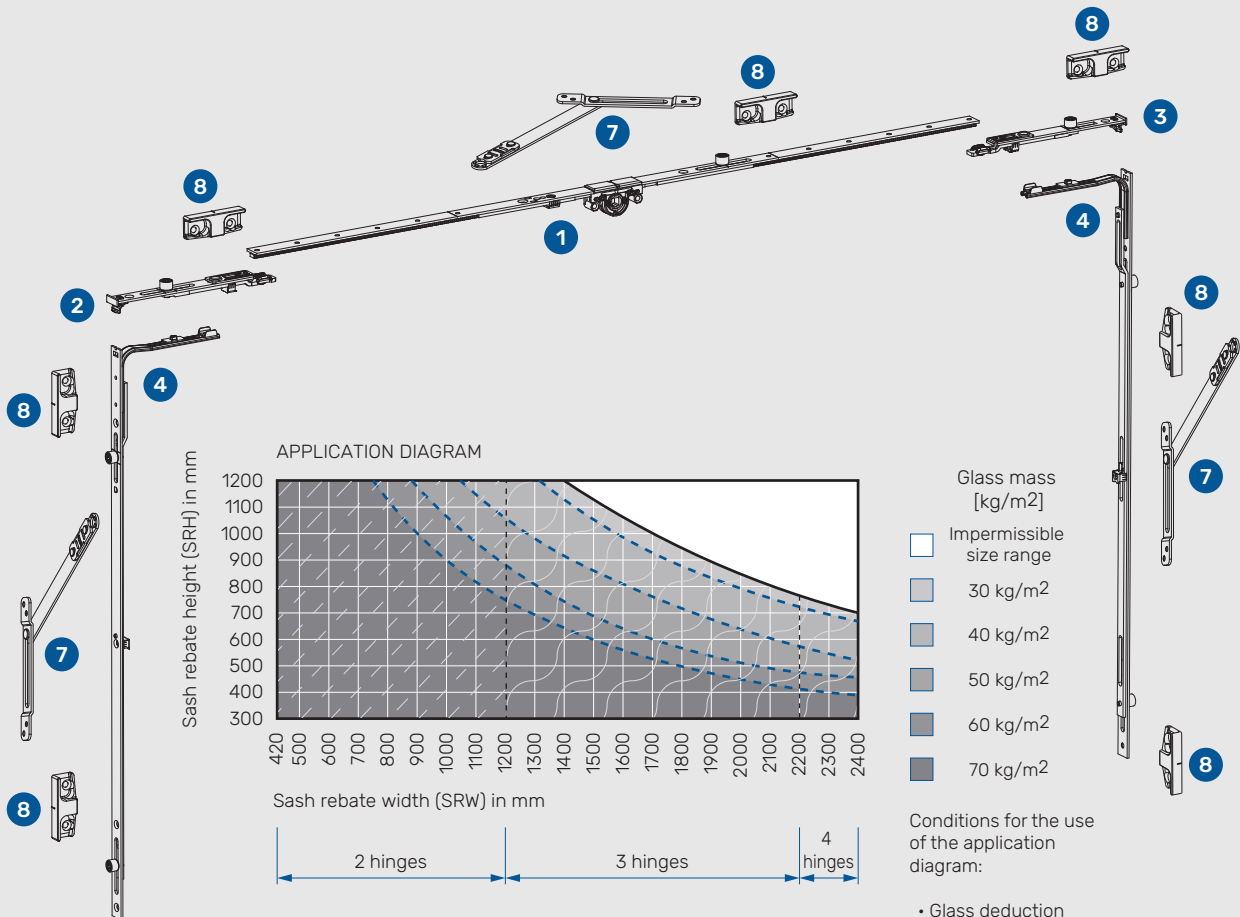
STRIKER PAGE 90

## 9 PACKERS

REBATE CENTER HINGE PACKER 1094661

## 10 COVER CAPS

STAY BEARING PAGE 88  
REBATE CENTER HINGE / STAY ARM PAGE 88



- Glass mass [kg/m<sup>2</sup>]
- Impermissible size range
  - 30 kg/m<sup>2</sup>
  - 40 kg/m<sup>2</sup>
  - 50 kg/m<sup>2</sup>
  - 60 kg/m<sup>2</sup>
  - 70 kg/m<sup>2</sup>

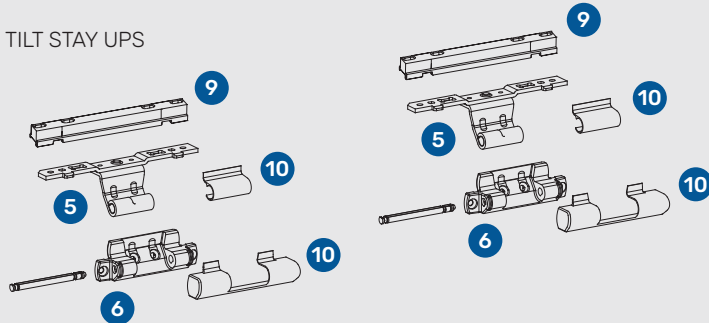
Conditions for the use of the application diagram:

- Glass deduction dim. CG: ≥ 28 mm,
- profile weight PG: ≤ 3,25 kg/m.

\* The application diagrams are generated according to IFT guidelines.

! TILT STAYS MUST BE INSTALLED ON BOTH SIDES - recommended by directive FPKF

- ▨ ONE TILT STAY UP
- ▨ TWO TILT STAY UPS

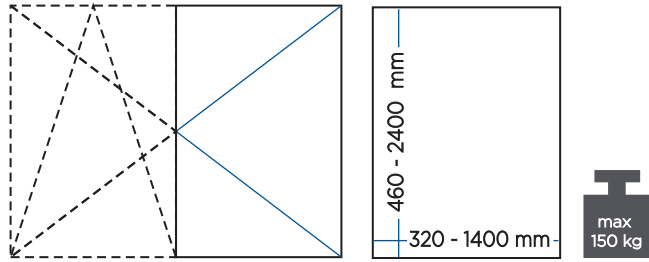


# TURN - SECOND SASH | FACE-FIT HINGE SIDE

Fixed handle height | First sash T&Ti

## 1 FR. WIN. KV ESPAGNOLETTE

Sash rebate height	Handle height	Lenght	Material
460 - 600 <sup>1 2)</sup>	230	410	1118420
601 - 800 <sup>2)</sup>	335	520	1118421
801 - 1000	490	720	1 R 1118423
1001 - 1200	335	920	1 R 1118424
1201 - 1400	335	1120	1 R 1118425
1401 - 1600	335	1320	1 R 1118426
1601 - 1800	335	1520	1 R 1118427
1801 - 2000	640	1720	2 R 1118428
2001 - 2200	640	1920	2 R 1118429
2201 - 2400	640	2120	2 R 1118430



## 2 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

## 3 CORNER DRIVE - TOP

CORNER DRIVE	1 R	1103158
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## 4 CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	400	1 R 1083061
1201 - 1400	600	1 R 1083062

## 5 REBATE STAY ARM

REBATE STAY ARM - L	SYSTEM 12/18-13	1096113
REBATE STAY ARM - R		1096114

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R	SYSTEM 12/18-13	1107263
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## 7 CORNER HINGE

CORNER HINGE - L	SYSTEM 12/18-13	1096619
CORNER HINGE - R		1096621

## 8 CORNER PIVOT REST

CORNER PIVOT REST - L	SYSTEM 12/18-13	1083248
CORNER PIVOT REST - R		1083249

## 9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette		1083295
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## 10 STRIKERS

STRIKER		PAGE 90
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## 11 CONCEALED STRIKER

SASH PART		1127509
FRAME PART		PAGE 93

## 12 COVER CAPS

STAY BEARING		PAGE 88
REBATE STAY ARM / STAY ARM		PAGE 88
CORNER HINGE		PAGE 88
CORNER PIVOT REST		PAGE 88

<sup>1)</sup> MUST USE SHORT CORNER DRIVE **1103162** ON BOTTOM

<sup>2)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* position the R cams on upper corner drives into vertical position



**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

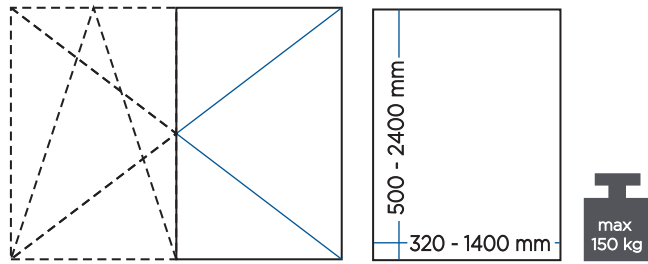
The application diagrams are generated according to IFT guidelines.

# TURN - SECOND SASH | FACE-FIT HINGE SIDE

Centered / variable handle height | First sash T&Ti

## 1 FR. WIN. ESPAGNOLETTE M

Sash rebate height	Handle height	Lenght	Material
500 - 680 <sup>1)</sup>	200 - 380	400	1098116
600 - 1000 <sup>1)</sup>	387 - 586	720	1 R 1098120
900 - 1400	350 - 550	1120	1 R 1098122
1401 - 1800	350 - 550	1520	1 R 1098123
1601 - 2000	350 - 550	1720	2 R 1098124
2001 - 2400	350 - 550	2120	2 R 1098125



## 2 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE 1 R 1103158

## 3 CORNER DRIVE - TOP

STANDARD CORNER DRIVE 1 R 1103158

## 4 CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	400	1 R 1083061
1201 - 1400	600	1 R 1083062

## 5 REBATE STAY ARM

REBATE STAY ARM - L SYSTEM 12/18-13 1096113

REBATE STAY ARM - R 1096114

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13 1107263

## 7 CORNER HINGE

CORNER HINGE - L SYSTEM 12/18-13 1096619

CORNER HINGE - R 1096621

## 8 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13 1083248

CORNER PIVOT REST - R 1083249

## 9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette 1083295

## 10 STRIKERS

STRIKER PAGE 90

## 11 CONCEALED STRIKER

SASH PART 1127509

FRAME PART PAGE 93

## 12 COVER CAPS

STAY BEARING PAGE 88

REBATE STAY ARM / STAY ARM PAGE 88

CORNER HINGE PAGE 88

CORNER PIVOT REST PAGE 88

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* position the R cams on upper corner drives into vertical position

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/Ht} \leq 1.5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

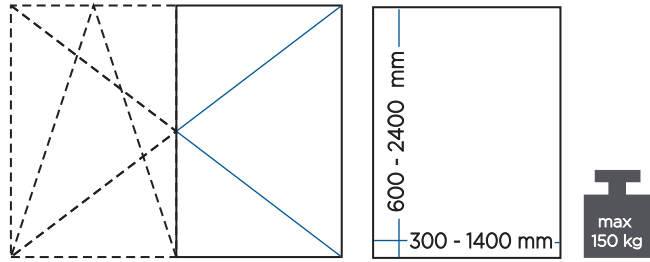
The application diagrams are generated according to IFT guidelines.

# TURN - SECOND SASH | FACE-FIT HINGE SIDE

Fixed handle height | First sash T&T

## 1 FR. WIN. KV ESPAGNOLETTE

Sash rebate height	Handle height	Lenght	Material
600 - 800 <sup>1)</sup>	335	520	1118421
801 - 1000	490	720	1 R 1118423
1001 - 1200	335	920	1 R 1118424
1201 - 1400	335	1120	1 R 1118425
1401 - 1600	335	1320	1 R 1118426
1601 - 1800	335	1520	1 R 1118427
1801 - 2000	640	1720	2 R 1118428
2001 - 2200	640	1920	2 R 1118429
2201 - 2400	640	2120	2 R 1118430



## 2 FR. WIN. T&T LOCK BOLT

T&T LOCK BOLT 1102621

## 3 FR. WIN. CONNECTOR with STRIKER

CONNECTOR WITH STRIKER 1110929

## 4 CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059

## 5 REBATE STAY ARM

REBATE STAY ARM - L SYSTEM 12/18-13 1096113  
REBATE STAY ARM - R 1096114

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13 1107263

## 7 CORNER HINGE

CORNER HINGE - L SYSTEM 12/18-13 1096619  
CORNER HINGE - R 1096621

## 8 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13 1083248  
CORNER PIVOT REST - R 1083249

## 9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette 1083295

## 10 STRIKERS

STRIKER PAGE 90  
SECOND SASH STRIKER for shootbolt PAGE 91

## 11 CONCEALED STRIKER

SASH PART 1127509  
FRAME PART PAGE 93

## 12 COVER CAPS

STAY BEARING PAGE 88  
REBATE STAY ARM / STAY ARM PAGE 88  
CORNER HINGE PAGE 88  
CORNER PIVOT REST PAGE 88

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

**Glass mass [kg/m<sup>2</sup>]**

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

**Conditions for the use of the application diagram:**

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

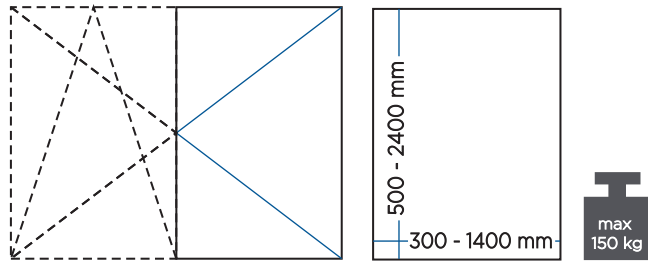
The application diagrams are generated according to IFT guidelines.

# TURN - SECOND SASH | FACE-FIT HINGE SIDE

Centered / variable handle height | First sash T&T

## 1 FR. WIN. ESPAGNOLETTE M

Sash rebate height	Handle height	Lenght	Material
500 - 680 <sup>1)</sup>	290 - 380	400	1098116
600 - 1000 <sup>1)</sup>	387 - 586	720	1 R 1098120
900 - 1400	350 - 550	1120	1 R 1098122
1401 - 1800	350 - 550	1520	1 R 1098123
1601 - 2000	350 - 550	1720	2 R 1098124
2001 - 2400	350 - 550	2120	2 R 1098125



## 2 FR. WIN. T&T LOCK BOLT

T&T LOCK BOLT 1102621

## 3 FR. WIN. CONNECTOR with STRIKER

CONNECTOR WITH STRIKER 1110929

## 4 CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059

## 5 REBATE STAY ARM

REBATE STAY ARM - L SYSTEM 12/18-13 1096113  
REBATE STAY ARM - R 1096114

## 6 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13 1107263

## 7 CORNER HINGE

CORNER HINGE - L SYSTEM 12/18-13 1096619  
CORNER HINGE - R 1096621

## 8 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13 1083248  
CORNER PIVOT REST - R 1083249

## 9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette 1083295

## 10 STRIKERS

STRIKER PAGE 90  
SECOND SASH STRIKER for shootbolt PAGE 91

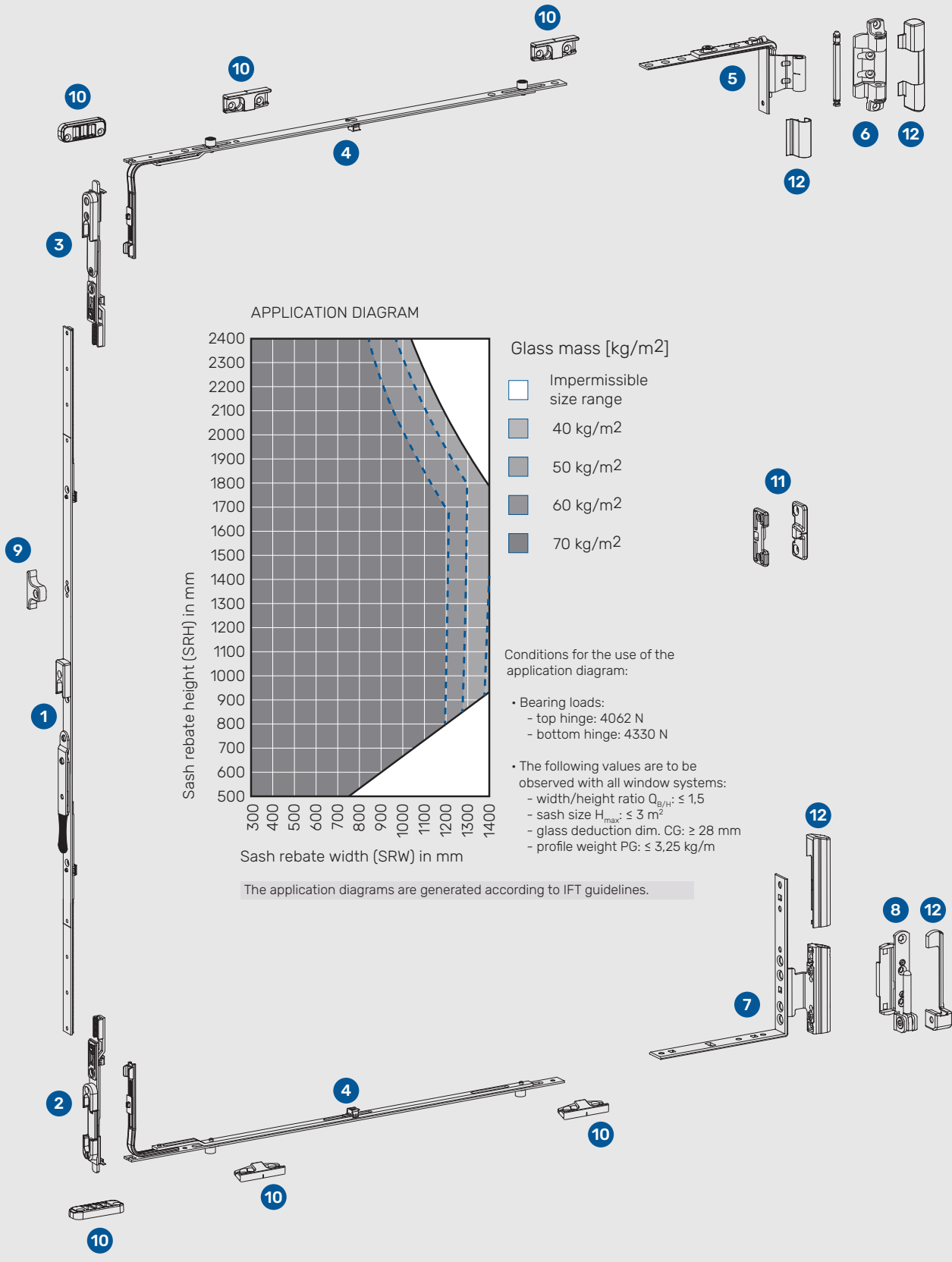
## 11 CONCEALED STRIKER

SASH PART 1127509  
FRAME PART PAGE 93

## 12 COVER CAPS

STAY BEARING PAGE 88  
REBATE STAY ARM / STAY ARM PAGE 88  
CORNER HINGE PAGE 88  
CORNER PIVOT REST PAGE 88

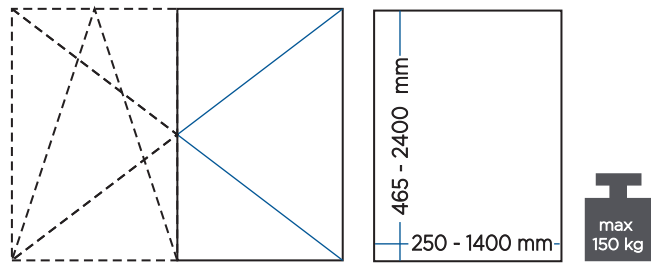
<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE



# TURN - SECOND SASH | FACE-FIT HINGE SIDE

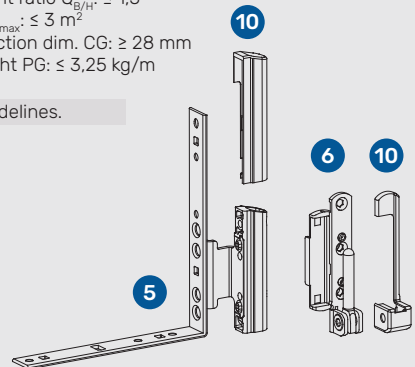
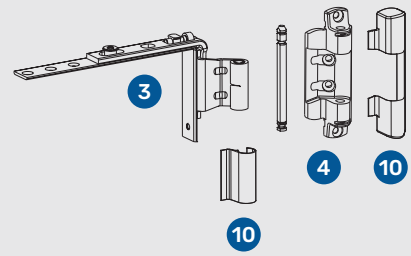
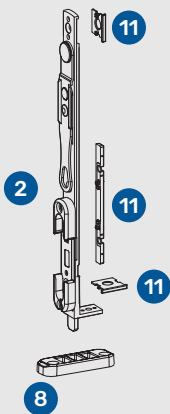
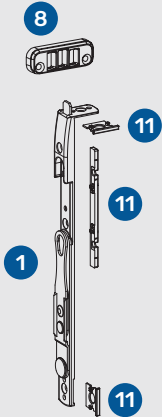
Shootbolts - Euro rebate

- |  |  |
|--|--|
| <p><b>1</b> SHOOTBOLT 18 mm - TOP<br/>SHOOTBOLT WITH STRIKER</p>   | <p>1093890</p>                                     |
| <p><b>2</b> T&amp;T SHOOTBOLT 18 mm - BOTTOM<br/>SHOOTBOLT WITH T&amp;T STRIKER</p>                                | <p>1093889</p>                                     |
| <p><b>3</b> REBATE STAY ARM<br/>REBATE STAY ARM - L<br/>REBATE STAY ARM - R</p>                                    | <p>SYSTEM 12/18-13<br/>1096113<br/>1096114</p>     |
| <p><b>4</b> STAY BEARING<br/>STAY BEARING WITH PIN - L/R</p>   | <p>SYSTEM 12/18-13<br/>1083250</p>                 |
| <p><b>5</b> CORNER HINGE<br/>CORNER HINGE - L<br/>CORNER HINGE - R</p>   | <p>SYSTEM 12/18-13<br/>1096619<br/>1096621</p>     |
| <p><b>6</b> CORNER PIVOT REST<br/>CORNER PIVOT REST - L<br/>CORNER PIVOT REST - R</p>                              | <p>SYSTEM 12/18-13<br/>1083248<br/>1083249</p>     |
| <p><b>7</b> MISHANDLING DEVICE<br/>FRAME PART</p>  | <p>PAGE 92</p>                                     |
| <p><b>8</b> STRIKERS<br/>STRIKER<br/>SECOND SASH STRIKER for shootbolt</p>   | <p>PAGE 90<br/>PAGE 91</p>                         |
| <p><b>9</b> CONCEALED STRIKER<br/>SASH PART<br/>FRAME PART</p>   | <p>1127509<br/>PAGE 93</p>                         |
| <p><b>10</b> COVER CAPS<br/>STAY BEARING<br/>REBATE STAY ARM / STAY ARM<br/>CORNER HINGE<br/>CORNER PIVOT REST</p> | <p>PAGE 88<br/>PAGE 88<br/>PAGE 88<br/>PAGE 88</p> |
| <p><b>11</b> PACKERS<br/>PACKER 20 mm<br/>PACKER 7/8</p>   | <p>1127376<br/>1127375</p>                         |

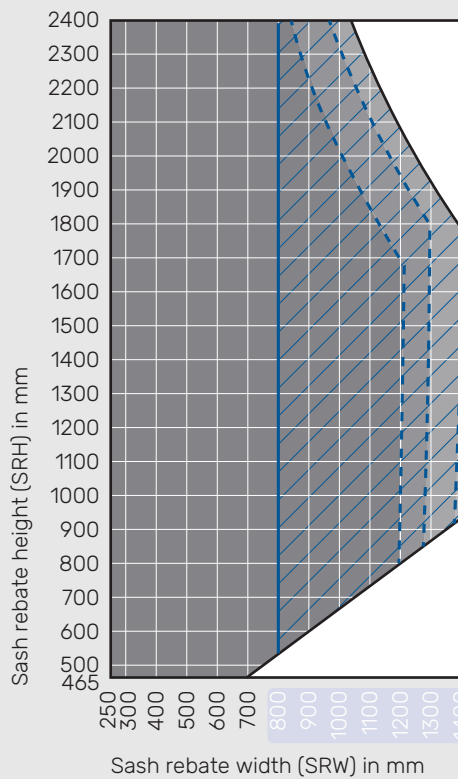


\* SRW > 800 mm is NOT recommended





APPLICATION DIAGRAM



Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

# TURN - SECOND SASH | FACE-FIT HINGE SIDE

Shootbolts - OHG

**1** SHOOTBOLT with striker - TOP  
SHOOTBOLT WITH STRIKER 1083253

**1a** SHOOTBOLT with striker - TOP  
SHOOTBOLT WITHOUT STRIKER 140 1083254

**2** SHOOTBOLT with T&T striker - BOTTOM  
SHOOTBOLT WITH T&T STRIKER 1083252

**3** CENTER LOCK

Sash rebate width	Lenght	Material
801 - 1200	500 / 550	2 R 1083058
1201 - 1400	800 / 850	2 R 1083059

**4** REBATE STAY ARM SYSTEM 12/18-13  
REBATE STAY ARM - L 1096113  
REBATE STAY ARM - R 1096114

**5** STAY BEARING SYSTEM 12/18-13  
STAY BEARING WITH PIN - L/R 1083250

**6** CORNER HINGE SYSTEM 12/18-13  
CORNER HINGE - L 1096619  
CORNER HINGE - R 1096621

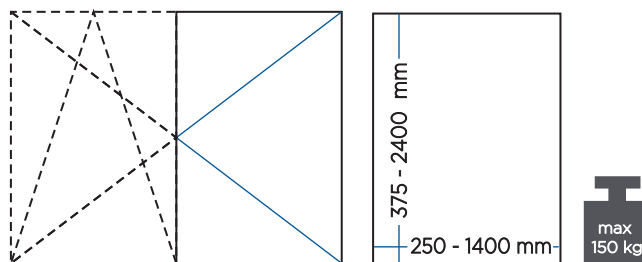
**7** CORNER PIVOT REST SYSTEM 12/18-13  
CORNER PIVOT REST - L 1083248  
CORNER PIVOT REST - R 1083249

**8** MISHANDLING DEVICE 1083293  
MISHANDLING DEVICE - OHG

**9** STRIKERS  
STRIKER [PAGE 90](#)  
STRIKER - OHG 1083207  
SECOND SASH STRIKER for shootbolt [PAGE 91](#)

**10** CONCEALED STRIKER  
SASH PART 1127509  
FRAME PART [PAGE 93](#)

**11** COVER CAPS  
STAY BEARING [PAGE 88](#)  
REBATE STAY ARM / STAY ARM [PAGE 88](#)  
CORNER HINGE [PAGE 88](#)  
CORNER PIVOT REST [PAGE 88](#)



**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 4062 N
  - bottom hinge: 4330 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

The application diagrams are generated according to IFT guidelines.

# T&TI - ARCHED WINDOW | FACE-FIT HINGE SIDE

Fixed handle height

## 1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Length	Material
600 - 800	263	520	1115131
801 - 1000	413	720	1 R 1115133
1001 - 1200	513	920	1 R 1115134
1201 - 1400	563	1120	1 R 1115135
1401 - 1600	563	1320	1 R 1115136
1601 - 1800	563	1520	1 R 1115137
1601 - 1800	1000	1520	1 R 1115138

## 2 LOCK BOLT

Sash rebate width	Type / length	Material Nr.
400 - 800	140	1 R 1102394

## 2a CENTER LOCK - ARCH

Sash rebate width	Type / length	Material Nr.
801 - 1400	590	2 R 1103143

## 3 CORNER DRIVE

STANDARD CORNER DRIVE 1 RS 1100983

## 4 CENTER LOCK - HORIZONTAL

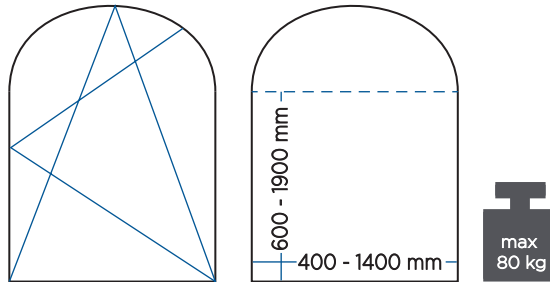
Sash rebate width	Type / length	Material Nr.
400 - 650	370	1083076
651 - 900	620	1 R 1083077
901 - 1150	870	1 R 1083078
1151 - 1400	1120	2 R 1083079

## 5 CORNER HINGE LOCK

CORNER HINGE LOCK - L SYSTEM 12/18-13 1 R 1105292  
CORNER HINGE LOCK - R 1 R 1105293

## 6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
600 - 900	370	1083076
900 - 1100	620	1 R 1083077
1101 - 1400	870	1 R 1083078
1401 - 1690	1120	2 R 1083079
1691 - 1900	1120+400	2 R 1083079+1102897



## 7 STAY ARM SET

STAY ARM WITH SASH LIFTER REBATE 20 mm / SYSTEM 12/18-13

1 R 1113860

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13

1107263

## 9 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13

1083248

CORNER PIVOT REST - R 1083249

## 10 MISHANDLING DEVICE

SASH PART 1093907

FRAME PART PAGE 92

## 11 STRIKERS

T&Ti STRIKER PAGE 90

STRIKER PAGE 90

## 12 COVER CAPS

STAY BEARING PAGE 88

STAY ARM PAGE 88

CORNER HINGE PAGE 88

CORNER PIVOT REST PAGE 88

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 20 kg/m<sup>2</sup>
- 30 kg/m<sup>2</sup>
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2374 N
  - bottom hinge: 2374 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H^2} \leq 1.5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3.25 \text{ kg/m}$

\* The application diagrams are generated according to IFT guidelines.

# T&TI - ARCHED WINDOW | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Length	Material
580 - 620 <sup>1)</sup>	245 - 310	340	1083117
600 - 1000	300 - 500	720	1 R 1088473
900 - 1400	450 - 700	1120	1 R 1098964
1401 - 1800	701 - 900	1520	1 R 1098965
1601 - 1900	801 - 1000	1720	2 R 1098966

## 2 LOCK BOLT

Sash rebate width	Type / length	Material Nr.
400 - 800	140	1 R 1102394

## 2a CENTER LOCK - ARCH

Sash rebate width	Type / length	Material Nr.
801 - 1400	590	2 R 1103143

## 3 CORNER DRIVE

STANDARD CORNER DRIVE 1 RS 1100983

## 4 CENTER LOCK - HORIZONTAL

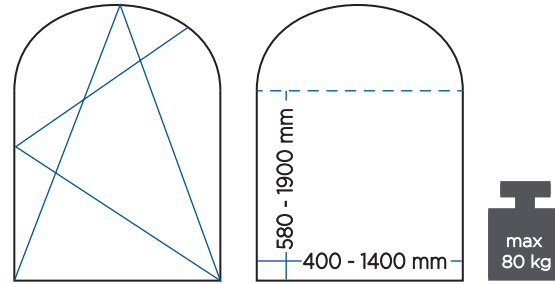
Sash rebate width	Type / length	Material Nr.
400 - 650	370	1083076
651 - 900	620	1 R 1083077
901 - 1150	870	1 R 1083078
1151 - 1400	1120	2 R 1083079

## 5 CORNER HINGE LOCK

CORNER HINGE LOCK - L SYSTEM 12/18-13 1 R 1105292  
CORNER HINGE LOCK - R 1 R 1105293

## 6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
580 - 900	370	1083076
900 - 1100	620	1 R 1083077
1101 - 1400	870	1 R 1083078
1401 - 1690	1120	2 R 1083079
1691 - 1900	1120+400	2 R 1083079+1102897



## 7 STAY ARM SET

STAY ARM WITH SASH LIFTER REBATE 20 mm / SYSTEM 12/18-13

1 R 1113860

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13

1107263

## 9 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13

1083248

CORNER PIVOT REST - R 1083249

## 10 MISHANDLING DEVICE

SASH PART 1093907

FRAME PART PAGE 92

## 11 STRIKERS

T&Ti STRIKER PAGE 90

STRIKER PAGE 90

## 12 COVER CAPS

STAY BEARING PAGE 88

STAY ARM PAGE 88

CORNER HINGE PAGE 88

CORNER PIVOT REST PAGE 88

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 20 kg/m<sup>2</sup>
- 30 kg/m<sup>2</sup>
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2374 N
  - bottom hinge: 2374 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H} \leq 1,5$
  - sash size  $H_{max} \leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

\* The application diagrams are generated according to IFT guidelines.

# T&TI - PITCHED WINDOW | FACE-FIT HINGE SIDE

Fixed handle height

## 1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Length	Material
600 - 800	263	520	1115131
801 - 1000	413	720	1 R 1115133
1001 - 1200	513	920	1 R 1115134
1201 - 1400	563	1120	1 R 1115135
1401 - 1600	563	1320	1 R 1115136
1601 - 1800	563	1520	1 R 1115137
1601 - 1800	1000	1520	1 R 1115138

## 2 LOCK BOLT

Sash rebate width	Type / length	Material Nr.
400 - 800	140	1 R 1102394

## 2a CENTER LOCK - TOP

Sash rebate width	Type / length	Material Nr.
801 - 1200	400	1 R 1083061
1201 - 1400	600	1 R 1083062

## 2b CORNER DRIVE - TOP

CORNER DRIVE PITCHED 1 R 1103163

## 3 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE 1 RS 1100983

## 4 CENTER LOCK - HORIZONTAL

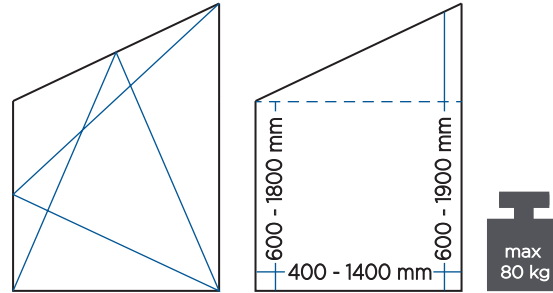
Sash rebate width	Type / length	Material Nr.
400 - 650	370	1083076
651 - 900	620	1 R 1083077
901 - 1150	870	1 R 1083078
1151 - 1400	1120	2 R 1083079

## 5 CORNER HINGE LOCK

CORNER HINGE LOCK - L SYSTEM 12/18-13 1 R 1105292  
CORNER HINGE LOCK - R 1 R 1105293

## 6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
600 - 900	370	1083076
900 - 1100	620	1 R 1083077
1101 - 1400	870	1 R 1083078
1401 - 1690	1120	2 R 1083079
1691 - 1900	1120+400	2 R 1083079+1102897



## 7 STAY ARM SET

STAY ARM WITH SASH LIFTER REBATE 20 mm / SYSTEM 12/18-13 1 R 1113860

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R SYSTEM 12/18-13 1107263

## 9 CORNER PIVOT REST

CORNER PIVOT REST - L SYSTEM 12/18-13 1083248  
CORNER PIVOT REST - R 1083249

## 10 MISHANDLING DEVICE

SASH PART 1093907  
FRAME PART PAGE 92

## 11 STRIKERS

T&Ti STRIKER PAGE 90  
STRIKER PAGE 90

## 12 COVER CAPS

STAY BEARING PAGE 88  
STAY ARM PAGE 88  
CORNER HINGE PAGE 88  
CORNER PIVOT REST PAGE 88



**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 20 kg/m<sup>2</sup>
- 30 kg/m<sup>2</sup>
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2374 N
  - bottom hinge: 2374 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{B/H}$ :  $\leq 1,5$
  - sash size  $H_{max}$ :  $\leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

\* The application diagrams are generated according to IFT guidelines.

# T&TI - PITCHED WINDOW | FACE-FIT HINGE SIDE

Centered / variable handle height

## 1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material
580 - 620 <sup>1)</sup>	245 - 310	340	1083117
600 - 1000	300 - 500	720	1 R 1088473
900 - 1400	450 - 700	1120	1 R 1098964
1401 - 1800	701 - 900	1520	1 R 1098965
1601 - 1900	801 - 1000	1720	2 R 1098966

## 2 LOCK BOLT

Sash rebate width	Type / length	Material Nr.
400 - 800	140	1 R 1102394

## 2a CENTER LOCK - TOP

Sash rebate width	Type / length	Material Nr.
801 - 1200	400	1 R 1083061
1201 - 1400	600	1 R 1083062

## 2b CORNER DRIVE - TOP

CORNER DRIVE PITCHED 1 R 1103163

## 3 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE 1 RS 1100983

## 4 CENTER LOCK - HORIZONTAL

Sash rebate width	Type / length	Material Nr.
400 - 650	370	1083076
651 - 900	620	1 R 1083077
901 - 1150	870	1 R 1083078
1151 - 1400	1120	2 R 1083079

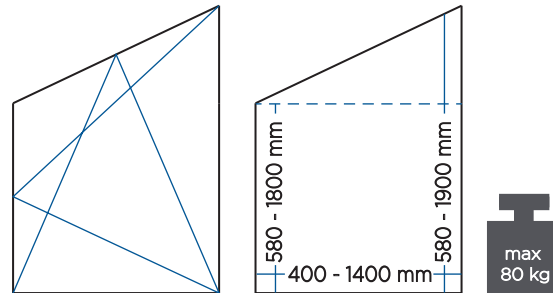
## 5 CORNER HINGE LOCK

CORNER HINGE LOCK - L SYSTEM 12/18-13 1 R 1105292

CORNER HINGE LOCK - R 1 R 1105293

## 6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
580 - 900	370	1083076
900 - 1100	620	1 R 1083077
1101 - 1400	870	1 R 1083078
1401 - 1690	1120	2 R 1083079
1691 - 1900	1120+400	2 R 1083079+1102897



## 7 STAY ARM SET

STAY ARM WITH SASH LIFTER

REBATE 20 mm / SYSTEM 12/18-13

1 R 1113860

## 8 STAY BEARING

STAY BEARING WITH PIN - L/R

SYSTEM 12/18-13

1107263

## 9 CORNER PIVOT REST

CORNER PIVOT REST - L  
CORNER PIVOT REST - R

SYSTEM 12/18-13

1083248

1083249

## 10 MISHANDLING DEVICE

SASH PART  
FRAME PART

1093907

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## 11 STRIKERS

T&Ti STRIKER  
STRIKER

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## 12 COVER CAPS

STAY BEARING  
STAY ARM  
CORNER HINGE  
CORNER PIVOT REST

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<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

**APPLICATION DIAGRAM**

Sash rebate height (SRH) in mm

Sash rebate width (SRW) in mm

Glass mass [kg/m<sup>2</sup>]

- Impermissible size range
- 20 kg/m<sup>2</sup>
- 30 kg/m<sup>2</sup>
- 40 kg/m<sup>2</sup>
- 50 kg/m<sup>2</sup>
- 60 kg/m<sup>2</sup>
- 70 kg/m<sup>2</sup>

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2374 N
  - bottom hinge: 2374 N
- The following values are to be observed with all window systems:
  - width/height ratio  $Q_{\text{SRH}}$ :  $\leq 1,5$
  - sash size  $H_{\text{max}}$ :  $\leq 3 \text{ m}^2$
  - glass deduction dim. CG:  $\geq 28 \text{ mm}$
  - profile weight PG:  $\leq 3,25 \text{ kg/m}$

\* The application diagrams are generated according to IFT guidelines.



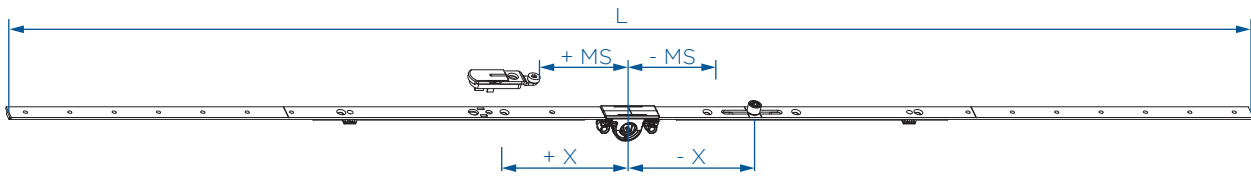


## Product portfolio

Individual products  
Detailed information

# T&T ESPAGNOLETTE M

Centered / variable handle height



## Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
420 - 620 <sup>1)</sup>	210 - 310	340	•	•	•	•	•	10	1083117
600 - 1000	300 - 500	720	-111	•	+ 38,5	1	2	10	1088473
900 - 1400	450 - 700	1120	-111	•	+ 99,5	1	5	10	1098964
1401 - 1800	701 - 900	1520	-111	•	+ 99,5	1	7	10	1098965
1601 - 2000	801 - 1000	1720	-311	+ 309	-121,5	2	8	10	1098966
2001 - 2400	1001 - 1200	2120	-311	+ 309	-121,5	2	10	10	1098967

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
900 - 1400	450 - 700	1120	•	-211	+ 209	•	+99,5	2	6	10	1098973
1401 - 1800	701 - 900	1520	•	-211	+ 209	•	+99,5	2	8	10	1098974
1601 - 2000	801 - 1000	1720	•	-311	+ 109	+ 559	-121,5	3	9	10	1098975
2001 - 2400	1001 - 1200	2120	-631	-311	+ 309	+ 629	-121,5	4	12	10	1098976

SRH	HH	L	X	X	MS			PACK.	MATERIAL
600 - 1000	300 - 500	720	-111	•	+ 38,5	1	2	10	1101035
900 - 1400	450 - 700	1120	-111	•	+ 99,5	1	5	10	1101036
1401 - 1800	701 - 900	1520	-111	•	+ 99,5	1	7	10	1101037
1601 - 2000	801 - 1000	1720	-311	+ 309	-121,5	2	8	10	1101038
2001 - 2400	1001 - 1200	2120	-311	+ 309	-121,5	2	10	10	1101039

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
900 - 1400	450 - 700	1120	•	-211	+ 209	•	+ 99,5	2	6	10	1105851
1401 - 1800	701 - 900	1520	•	-211	+ 209	•	+ 99,5	2	8	10	1105852
1601 - 2000	801 - 1000	1720	•	-311	+ 109	+ 559	-121,5	3	9	10	1105853
2001 - 2400	1001 - 1200	2120	-631	-311	+ 309	+ 629	-121,5	4	12	10	1105854

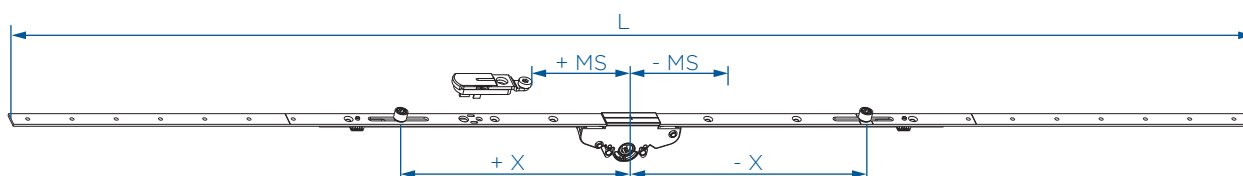
## Backset 7,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL	
470 - 820 <sup>1)</sup>	210 - 410	540	•	•	•	•	•	10	1083123	
600 - 1000 <sup>1)</sup>	300 - 500	720	-111	•	•	•	1	2	10	1083124
900 - 1400	450 - 700	1120	-111	•	+ 99,5	1	5	10	1083125	
1401 - 1800	701 - 900	1520	-111	•	+ 99,5	1	7	10	1083126	
1601 - 2000	801 - 1000	1720	-311	+ 309	-121,5	2	8	10	1083127	
2001 - 2400	1001 - 1200	2120	-311	+ 309	-121,5	2	10	10	1083128	

MISHANDLING DEVICE NOT AVAILABLE

# T&T ESPAGNOLETTE M - LARGER BACKSETS

Centered / variable handle height



## Backset 25 mm

SRH	HH	L	X	X	X	X	MS				PACK.	MATERIAL
420 - 620 <sup>1)</sup>	210 - 310	340	•	•	•	•	•	•	•	•	6	1104484
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1	2	6	6	1104485
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2	6	6	6	1104486
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2	8	6	6	1104487
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	3	9	6	6	1104488
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	4	12	6	6	1104489

## Backset 30 mm

SRH	HH	L	X	X	X	X	MS				PACK.	MATERIAL
420 - 620 <sup>1)</sup>	210 - 310	340	•	•	•	•	•	•	•	•	6	1107647
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1	2	6	6	1107648
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2	6	6	6	1107649
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2	8	6	6	1107650
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	3	9	6	6	1107651
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	4	12	6	6	1107652

## Backset 35 mm

SRH	HH	L	X	X	X	X	MS				PACK.	MATERIAL
420 - 620 <sup>1)</sup>	210 - 310	340	•	•	•	•	•	•	•	•	6	1107653
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1	2	6	6	1107654
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2	6	6	6	1107655
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2	8	6	6	1107656
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	3	9	6	6	1107657
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	4	12	6	6	1107658

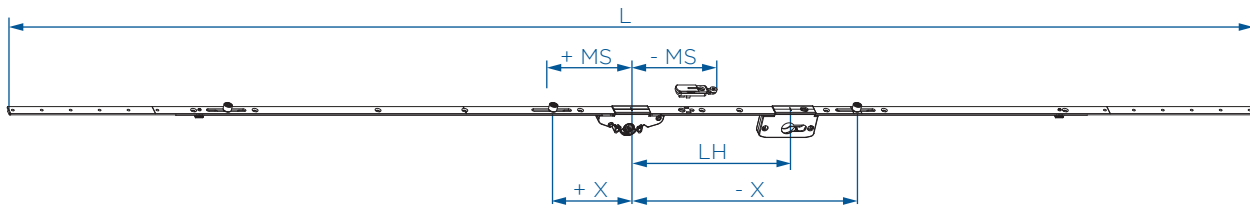
## Backset 45 mm

SRH	HH	L	X	X	X	X	MS				PACK.	MATERIAL
420 - 620 <sup>1)</sup>	210 - 310	340	•	•	•	•	•	•	•	•	6	1104490
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1	2	6	6	1104491
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2	6	6	6	1104492
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2	8	6	6	1104493
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	3	9	6	6	1104494
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	4	12	6	6	1104495

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

# T&T ESPAGNOLETTE M - LARGER BACKSETS + LOCKABLE

Centered / variable handle height



## Backset 25 mm



SRH	HH	L	X	X	X	X	MS	LH	PACK.	MATERIAL		
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1104477
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13	6	1104480

## Backset 30 mm



SRH	HH	L	X	X	X	X	MS	LH	PACK.	MATERIAL		
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1107659
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13	6	1107661

## Backset 35 mm



SRH	HH	L	X	X	X	X	MS	LH	PACK.	MATERIAL		
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1107662
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13	6	1107663

## Backset 45 mm

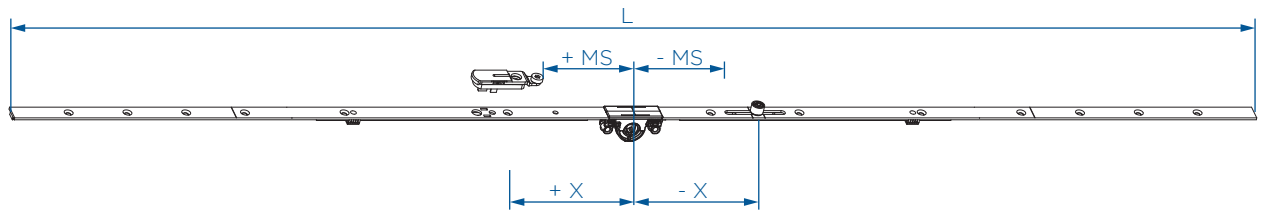


SRH	HH	L	X	X	X	X	MS	LH	PACK.	MATERIAL		
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1104482
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13	6	1104483



# ESPAÑOLETTE M

Centered / variable handle height



## Backset 14,5mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
180 - 250 <sup>1)2)</sup>	90 - 125	180	•	- 65	•	•	•	1	2	20	1083163
251 - 500 <sup>1)</sup>	126 - 250	500	•	- 76	•	•	•	1	6	10	1083164
501 - 900	251 - 450	900	•	- 201	+ 199	•	- 128,5	2	12	10	1083165
901 - 1400	451 - 700	1400	•	- 401	+ 112	+ 399	- 128,5	3	16	10	1083166
1401 - 1900	701 - 950	1900	- 651	- 251	+ 249	+ 649	+ 89,5	4	20	10	1083167
1901 - 2400	951 - 1200	2400	- 901	- 351	+ 349	+ 899	+ 89,5	4	20	10	1083168

## Backset 7,5 mm

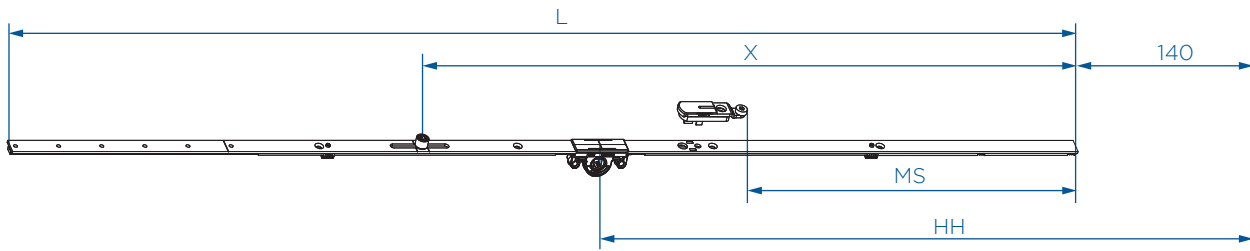
SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
251 - 500 <sup>1)</sup>	126 - 250	500	•	•	+ 74	•	•	1	6	10	1083169
501 - 900	251 - 450	900	•	- 201	+ 199	•	- 128,5	2	12	10	1083170
901 - 1400	451 - 700	1400	•	- 401	+ 112	+ 399	- 128,5	3	16	10	1083171
1401 - 1900	701 - 950	1900	- 651	- 251	+ 249	+ 649	+ 89,5	4	20	10	1083172
1901 - 2400	951 - 1200	2400	- 901	- 351	+ 349	+ 899	+ 89,5	4	20	10	1083173

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>2)</sup> HARDWARE SHORTENING NOT POSSIBLE

# T&T ESPAGNOLETTE KV

Fixed handle height



## Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
320 - 460 <sup>1) 3)</sup>	120	320	•	•	•	•	1	10	1083081
320 - 460 <sup>1) 2) 4)</sup>	120	320	•	•	•	•	2	10	1105430
461 - 600 <sup>5)</sup>	170	410	•	•	168	•	1	10	1118431
601 - 800	263	520	•	•	176	•	1	10	1115131
801 - 1000	413	720	•	•	145	•	3	10	1115132
801 - 1000	413	720	389	•	145	1	3	10	1115133
1001 - 1200	513	920	539	•	244	1	4	10	1115134
1201 - 1400	563	1120	539	•	244	1	6	10	1115135
1401 - 1600	563	1320	539	•	244	1	7	10	1115136
1601 - 1800	563	1520	539	•	244	1	8	10	1115137
1601 - 1800	1000	1520	539	•	244	1	8	10	1115167
1801 - 2000	1000	1720	1209	539	977	2	11	10	1115138
2001 - 2200	1000	1920	1209	539	977	2	12	10	1115139
2201 - 2400	1000	2120	1209	539	977	2	13	10	1115140

SRH	HH	L	X	X	MS			PACK.	MATERIAL
801-1000	413	720	389	•	145	1	3	10	1142916
1001-1200	513	920	539	•	244	1	4	10	1142919
1201-1400	563	1120	539	•	244	1	6	10	1142921
1401-1600	563	1320	539	•	244	1	7	10	1142922
1601-1800	563	1520	539	•	244	1	8	10	1142923
1601-1800	1000	1520	539	•	244	1	8	10	1142924
1801-2000	1000	1720	1209	539	977	2	11	10	1142925
2001-2200	1000	1920	1209	539	977	2	12	10	1142926
2201-2400	1000	2120	1209	539	977	2	13	10	1142927

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>2)</sup> WITH INTEGRATED CORNER DRIVE 1 RS

<sup>3)</sup> SIDE TILT - T&T

<sup>4)</sup> BOTTOM TILT - T&Ti

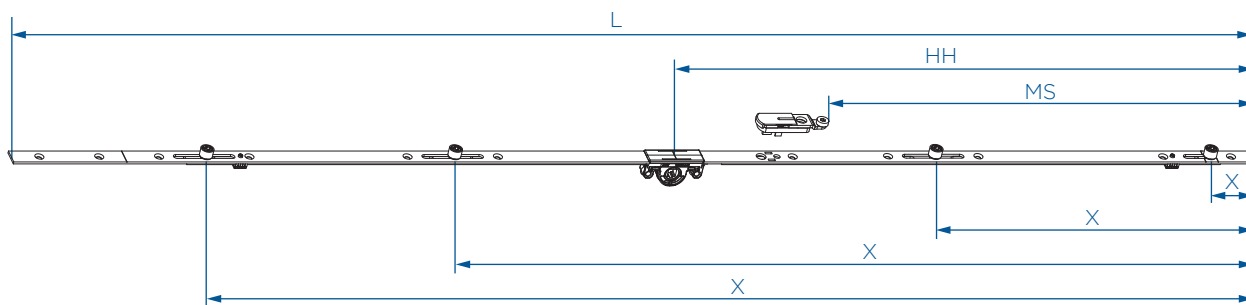
<sup>5)</sup> MUST USE SHORT CORNER DRIVE ON BOTTOM

\* T&T = WITH T&T LOCK BOLT

\* T&Ti = WITH CORNER DRIVE 1 RS

# ESPAÑOLETE

Fixed handle height



## Backset 14,5 mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
400 - 500 <sup>1)</sup>	170	500	39	•	•	328	•	2	6	10	1083129
501 - 600	170	600	39	•	•	428	219,5	2	7	10	1083130
601 - 700	263	700	39	•	•	528	134,5	2	8	10	1083131
701 - 800	263	800	39	•	•	628	134,5	2	9	10	1083132
801 - 900	413	900	39	•	•	728	284,5	2	9	10	1083133
901 - 1000	413	1000	39	•	•	828	284,5	2	9	10	1083134
1001 - 1100	513	1100	39	•	708	928	384,5	2	10	10	1083135
1101 - 1200	513	1200	39	•	708	1028	384,5	3	10	10	1083136
1201 - 1300	563	1300	39	•	708	1128	384,5	3	11	10	1083137
1301 - 1400	563	1400	39	•	708	1228	384,5	3	11	10	1083138
1401 - 1500	563	1500	39	•	708	1328	384,5	3	11	10	1083139
1501 - 1600	563	1600	39	•	708	1428	384,5	3	12	10	1083140
1601 - 1700	563	1700	39	•	708	1528	384,5	3	12	10	1083141
1701 - 1800	563	1800	39	708	1128	1628	384,5	4	14	10	1083142
1801 - 2000	1000	2000	39	684	1278	1728	1117,5	4	15	10	1083143
2001 - 2200	1000	2200	39	684	1328	1928	1117,5	4	15	10	1083144
2201 - 2400	1000	2400	39	684	1528	2128	1117,5	4	17	10	1083145

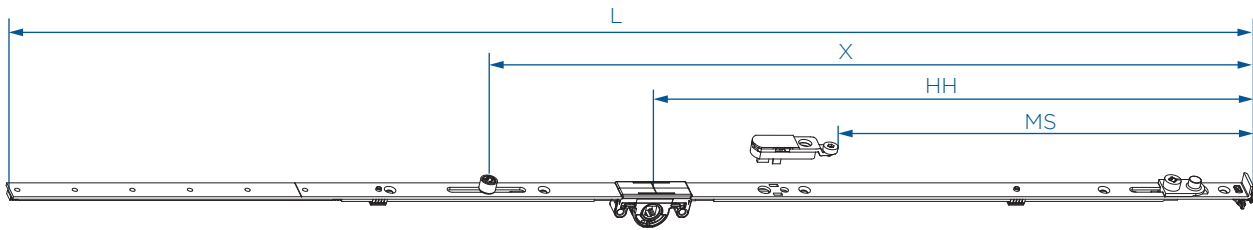
## Backset 7,5 mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
400 - 500 <sup>1)</sup>	170	500	39	•	•	328	•	2	6	10	1083146
501 - 600 <sup>1)</sup>	170	600	39	•	•	428	•	2	7	10	1083147
601 - 700	263	700	39	•	•	528	134,5	2	8	10	1083148
701 - 800	263	800	39	•	•	628	134,5	2	8	10	1083149
801 - 900	413	900	39	•	•	728	284,5	2	8	10	1083150
901 - 1000	413	1000	39	•	•	828	284,5	2	9	10	1083151
1001 - 1100	513	1100	39	•	708	928	384,5	3	10	10	1083152
1101 - 1200	513	1200	39	•	708	1028	384,5	3	10	10	1083153
1201 - 1300	563	1300	39	•	708	1128	384,5	3	11	10	1083154
1301 - 1400	563	1400	39	•	708	1228	384,5	3	11	10	1083155
1401 - 1500	563	1500	39	•	708	1328	384,5	3	11	10	1083156
1501 - 1600	563	1600	39	•	708	1428	384,5	3	12	10	1083157
1601 - 1700	563	1700	39	•	708	1528	384,5	3	12	10	1083158
1701 - 1800	563	1800	39	708	1128	1628	384,5	4	14	10	1083159
1801 - 2000	1000	2000	39	684	1278	1728	1117,5	4	16	10	1083160
2001 - 2200	1000	2200	39	684	1328	1928	1117,5	4	16	10	1083161
2201 - 2400	1000	2400	39	684	1528	2128	1117,5	4	17	10	1083162

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

# T&T ESPAGNOLETTE

Fixed handle height



## Backset 14,5 mm

SRH	HH	L	X	X	MS				PACK.	MATERIAL
320 - 460 <sup>1)</sup>	120	320	•	•	•	•	1* (0)	10	1083081	
461 - 600	170	460	•	•	219,5	•	3* (2)	10	1083082	
601 - 800	263	660	•	•	134,5	•	4* (3)	10	1083083	
801 - 1000	413	860	•	•	284,5	•	5* (4)	10	1083084	
801 - 1000	413	860	529	•	284,5	1	5* (4)	10	1083085	
1001 - 1200	513	1060	679	•	384,5	1	6* (5)	10	1083086	
1201 - 1400	563	1260	679	•	384,5	1	8* (7)	10	1083087	
1401 - 1600	563	1460	679	•	384,5	1	9* (8)	10	1083088	
1601 - 1800	563	1660	679	•	384,5	1	10* (9)	10	1083089	
1601 - 1800	1000	1660	679	•	384,5	1	10* (9)	10	1083090	
1801 - 2000	1000	1860	1349	679	1117,5	2	13* (12)	10	1083091	
2001 - 2200	1000	2060	1349	679	1117,5	2	14* (13)	10	1083092	
2201 - 2400	1000	2260	1349	679	1117,5	2	15* (14)	10	1083093	

SRH	HH	L	X	X	X	MS			PACK.	MATERIAL
1201 - 1400	563	1260	910	679	•	384,5	2	9* (8)	10	1093878
1401 - 1600	563	1460	1110	679	•	384,5	2	10* (9)	10	1093877
1601 - 1800	563	1660	1110	679	•	384,5	2	11* (10)	10	1093874
1801 - 2000	1000	1860	•	1349	679	1117,5	2	12* (11)	10	1083091
2001 - 2200	1000	2060	1710	1349	679	1117,5	3	13* (12)	10	1093873
2201 - 2400	1000	2260	1710	1349	679	1117,5	3	14* (13)	10	1093872











SRH	HH	L	X	X	MS				PACK.	MATERIAL
801 - 1000	413	860	529	•	284,5	1	5* (4)	10	1101026	
1001 - 1200	513	1060	679	•	384,5	1	6* (5)	10	1101027	
1201 - 1400	563	1260	679	•	384,5	1	8* (7)	10	1101028	
1401 - 1600	563	1460	679	•	384,5	1	9* (8)	10	1101029	
1601 - 1800	563	1660	679	•	384,5	1	10* (9)	10	1101030	
1601 - 1800	1000	1660	679	•	384,5	1	10* (9)	10	1101031	
1801 - 2000	1000	1860	1349	679	1117,5	2	13* (12)	10	1101032	
2001 - 2200	1000	2060	1349	679	1117,5	2	14* (13)	10	1101033	
2201 - 2400	1000	2260	1349	679	1117,5	2	15* (14)	10	1101034	

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

## Backset 7,5 mm

 SRH	 HH	 L	 X	 X	 MS			 PACK.	 MATERIAL
330 - 460 <sup>1) 2)</sup>	120	320	•	•	•	•	1* (0)	10	1083104
461 - 600 <sup>2)</sup>	170	460	•	•	•	•	3* (2)	10	1083105
601 - 800	263	660	•	•	134,5	•	4* (3)	10	1083106
801 - 1000	413	860	•	•	284,5	•	5* (4)	10	1083107
801 - 1000	413	860	529	•	284,5	1	5* (4)	10	1083108
1001 - 1200	513	1060	679	•	384,5	1	6* (5)	10	1083109
1201 - 1400	563	1260	679	•	384,5	1	8* (7)	10	1083110
1401 - 1600	563	1460	679	•	384,5	1	9* (8)	10	1083111
1601 - 1800	563	1660	679	•	384,5	1	10* (9)	10	1083112
1601 - 1800	1000	1660	679	•	384,5	1	10* (9)	10	1083113
1801 - 2000	1000	1860	1349	679	1117,5	2	13* (12)	10	1083114
2001 - 2200	1000	2060	1349	679	1117,5	2	14* (13)	10	1083115
2201 - 2400	1000	2260	1349	679	1117,5	2	15* (14)	10	1083116

<sup>1)</sup> WITH INTEGRATED CORNER DRIVE 1 RS

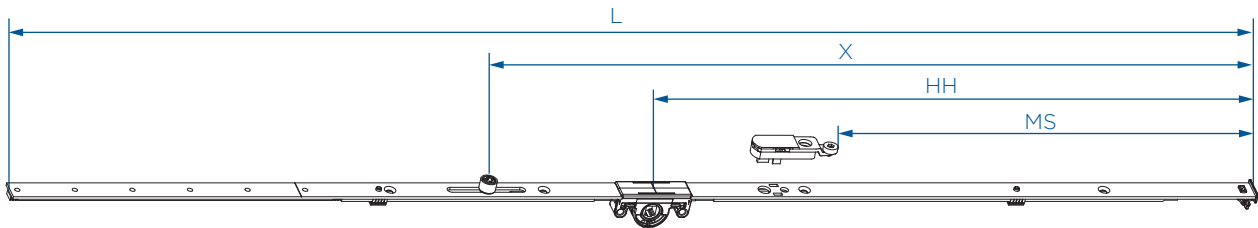
<sup>2)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

# T&TI ESPAGNOLETTE

Fixed handle height



## Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
320 - 460 <sup>1) 2)</sup>	120	320	•	•	•	•	2	10	1105430
461 - 600	170	460	•	•	219,5	•	2	10	1083094
601 - 800	263	660	•	•	134,5	•	2	10	1083095
801 - 1000	413	860	529	•	284,5	1	4	10	1083096
1001 - 1200	513	1060	679	•	384,5	1	5	10	1083097
1201 - 1400	563	1260	679	•	384,5	1	7	10	1083098
1401 - 1600	563	1460	679	•	384,5	1	8	10	1083099
1601 - 1800	563	1660	679	•	384,5	1	9	10	1083100
1801 - 2000	1000	1860	1349	679	1117,5	2	11	10	1083101
2001 - 2200	1000	2060	1349	679	1117,5	2	12	10	1083102
2201 - 2400	1000	2260	1349	679	1117,5	2	13	10	1083103

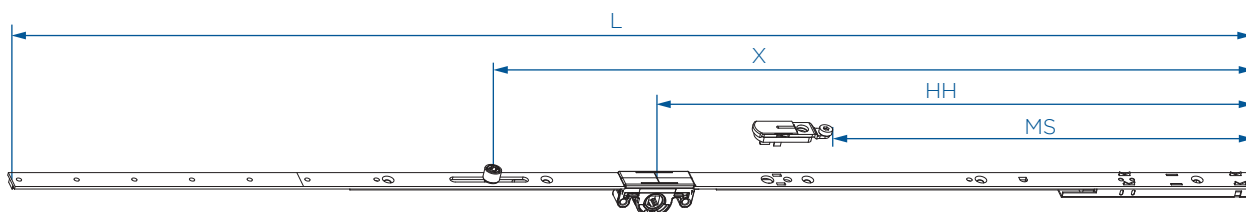
SRH	HH	L	X	X	MS			PACK.	MATERIAL
801 - 1000	413	860	529	•	284,5	1	4	10	1101040
1001 - 1200	513	1060	679	•	384,5	1	5	10	1101041
1201 - 1400	563	1260	679	•	384,5	1	7	10	1101042
1401 - 1600	563	1460	679	•	384,5	1	8	10	1101043
1601 - 1800	563	1660	679	•	384,5	1	9	10	1101044
1801 - 2000	1000	1860	1349	679	1117,5	2	11	10	1101045
2001 - 2200	1000	2060	1349	679	1117,5	2	12	10	1101046
2201 - 2400	1000	2260	1349	679	1117,5	2	13	10	1101047

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>2)</sup> WITH INTEGRATED CORNER DRIVE 1 RS

# REVERSE ACTION ESPAGNOLETTE

Fixed handle height

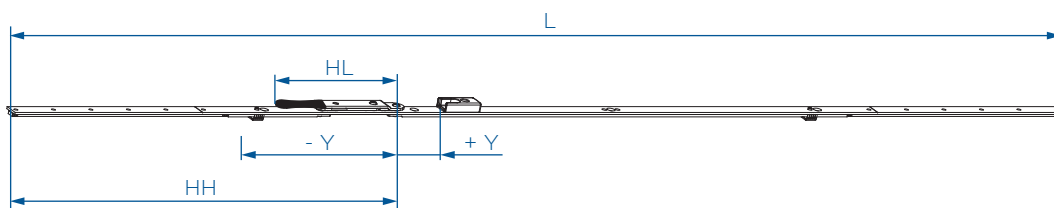


## Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
440 - 600	170	460	.	.	.	.	2	10	1105363
601 - 800	263	660	.	.	134,5	.	4	10	1105364
801 - 1000	413	860	529	.	284,5	1	5	10	1105365
1001 - 1200	513	1060	679	.	384,5	1	6	10	1105366
1201 - 1400	563	1260	679	.	384,5	1	8	10	1105367
1401 - 1600	563	1460	679	.	384,5	1	8	10	1105368
1601 - 1800	563	1660	679	1349	384,5	2	10	10	1105369
1801 - 2000	1000	1860	679	1349	384,5	2	12	10	1105370
2001 - 2200	1000	2060	679	1349	384,5	2	13	10	1105371
2201 - 2400	1000	2260	679	1349	384,5	2	14	10	1105372

# FRENCH WINDOW ESPAGNOLETTE M

Centered / variable handle height



SRH	HH	L	Y <sup>3)</sup>	Y	Y	Y <sup>3)</sup>	HL	PACK.	BACKSET <sup>2)</sup>	MATERIAL	
500 - 680 <sup>1)</sup>	290-380	400	•	•	•	•	2	130	10	14,5	1098116
600 - 1000 <sup>1)</sup>	387-586	720	•	- 189,5	•	•	3	130	10	14,5	1098120
800 - 1000 <sup>1)</sup>	587-686	720	•	- 289,5	•	•	3	130	10	7,5	1098121
900 - 1400	350-550	1120	•	+ 61,5	•	•	4	130	10	14,5/7,5	1098122
900 - 1400	350-550	1120	•	- 178,5	+ 241,5	•	4	130	10	14,5	1099308
1401 - 1800*	350-550	1520	+ 161,5	+ 261,5	•	+ 581,5	6	130	10	14,5/7,5	1098123
1601 - 2000*	350-550	1720	+ 581,5	+ 161,5	+ 781,5	+ 1031,5	8	130	10	14,5/7,5	1098124
2001 - 2400*	350-550	2120	+ 41,5	+ 361,5	+ 981,5	+ 1301,5	10	130	10	14,5/7,5	1098125

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

<sup>2)</sup> T&T ESPAGNOLETTE M BACKSET COMPATIBLE

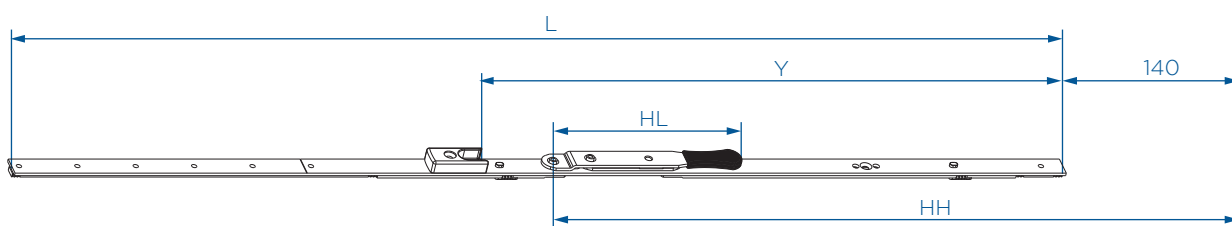
<sup>3)</sup> FOR ADDITIONAL LOCKING CAM - INSTALL STRIKER **1100213**

\* FR. WIN. ESPAGNOLETTE BULLET CATCH POSSIBLE



# FRENCH WINDOW ESPAGNOLETTE KV

Fixed handle height



SRH	HH	L	Y	Y		HL	PACK.	MATERIAL
460 - 600 <sup>1)2)</sup>	230	410	•	•	2	130	10	1118420
601 - 800 <sup>2)</sup>	335	520	•	•	2	130	10	1118421
801 - 1000	490	720	397,5	•	3	130	10	1118423
1001 - 1200	335	920	547,5	•	4	130	10	1118424
1201 - 1400	335	1120	547,5	•	6	130	10	1118425
1401 - 1600	335	1320	547,5	•	7	130	10	1118426
1601 - 1800*	335	1520	547,5	•	8	130	10	1118427
1801 - 2000*	640	1720	547,5	1217,5	11	130	10	1118428
2001 - 2200*	640	1920	547,5	1217,5	12	130	10	1118429
2201 - 2400*	640	2120	547,5	1217,5	13	130	10	1118430

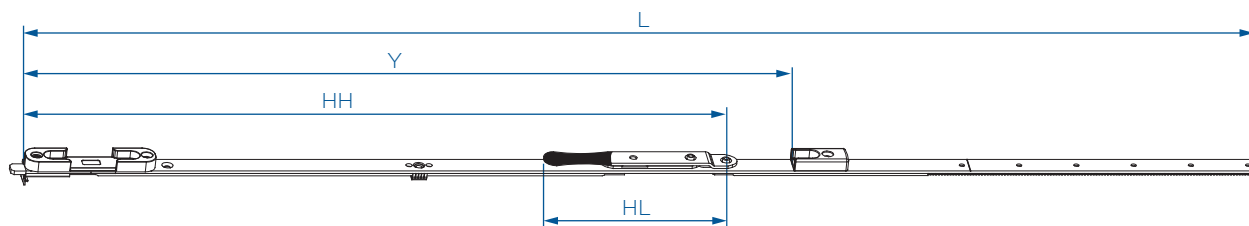
<sup>1)</sup> MUST USE SHORT CORNER DRIVE ON BOTTOM

<sup>2)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* FR. WIN. ESPAGNOLETTE BULLET CATCH POSSIBLE

# FRENCH WINDOW ESPAGNOLETTE T&T

Fixed handle height



SRH	HH	L	Y	Y		PACK.	MATERIAL
600 - 800 <sup>1)</sup>	335	660	.	.	4*(3)	10	1083174
801 - 1000	490	860	536,5	.	4*(3)	10	1083175
1001 - 1200	335	1060	687,5	.	5*(4)	10	1083176
1201 - 1400	335	1260	687,5	.	8*(7)	10	1083177
1401 - 1600	335	1460	687,5	.	8*(7)	10	1083178
1601 - 1800*	335	1660	687,5	.	9*(8)	10	1083179
1801 - 2000*	640	1860	687,5	1357,5	10*(9)	10	1083180
2001 - 2200*	640	2060	687,5	1357,5	11*(10)	10	1083181
2201 - 2400*	640	2260	687,5	1357,5	12*(11)	10	1083182

<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

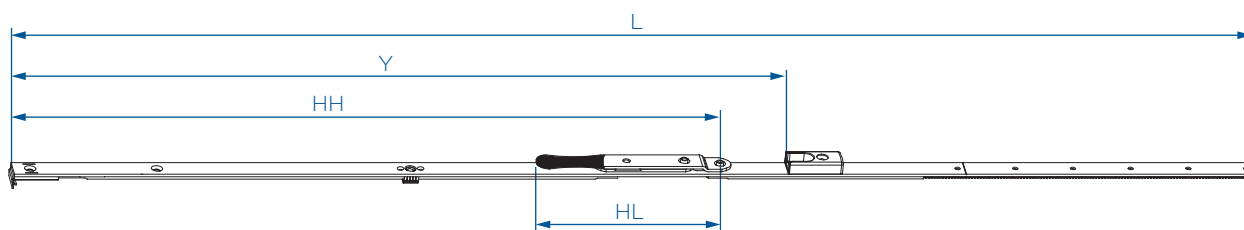
\* WITHOUT THE USE OF CENTER LOCK









(X) WITH THE USE OF CENTER LOCK

\* FR. WIN. ESPAGNOLETTE BULLET CATCH POSSIBLE

# FRENCH WINDOW ESPAGNOLETTE T&TI

Fixed handle height



 SRH	 HH	 L	 Y	 Y		 PACK.	 MATERIAL
600 - 800 <sup>1)</sup>	335	660	.	.	4*(3)	10	1105752
801 - 1000	490	860	536,5	.	4*(3)	10	1105754
1001 - 1200	335	1060	687,5	.	5*(4)	10	1105755
1201 - 1400	335	1260	687,5	.	8*(7)	10	1105756
1401 - 1600	335	1460	687,5	.	8*(7)	10	1105757
1601 - 1800*	335	1660	687,5	.	9*(8)	10	1105758
1801 - 2000*	640	1860	687,5	1357,5	10*(9)	10	1105759
2001 - 2200*	640	2060	687,5	1357,5	11*(10)	10	1105760
2201 - 2400*	640	2260	687,5	1357,5	12*(11)	10	1105761

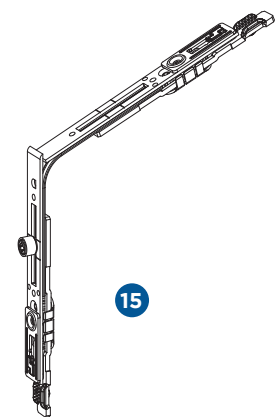
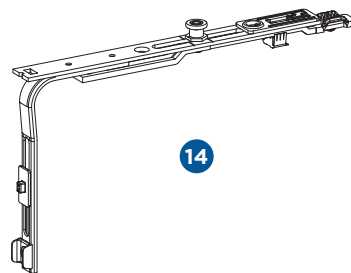
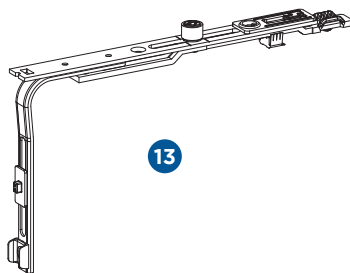
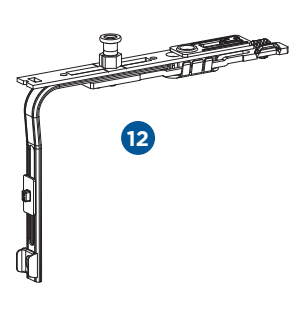
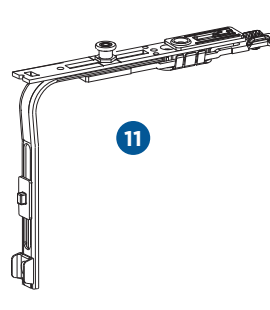
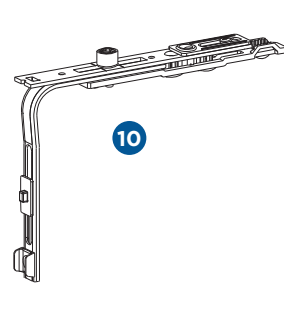
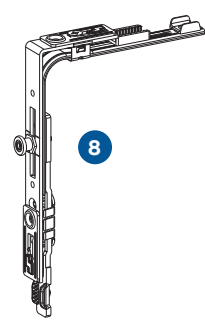
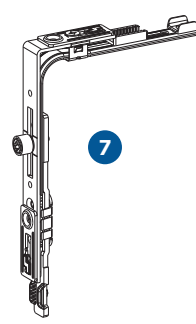
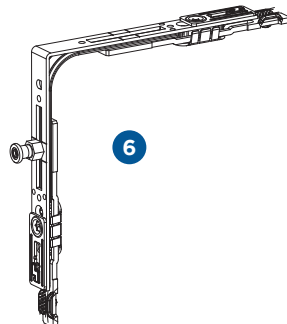
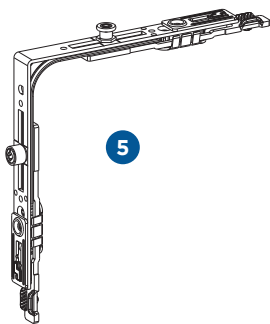
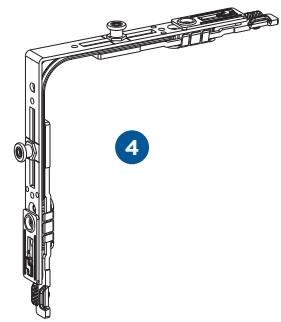
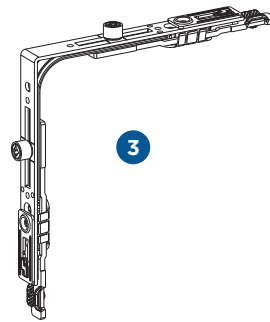
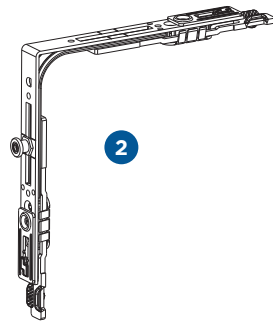
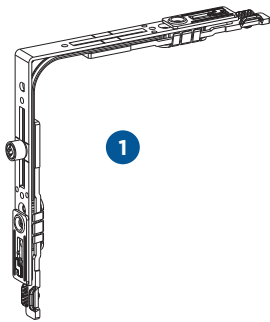
<sup>1)</sup> MISHANDLING DEVICE NOT AVAILABLE

\* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

\* FR. WIN. ESPAGNOLETTE BULLET CATCH POSSIBLE

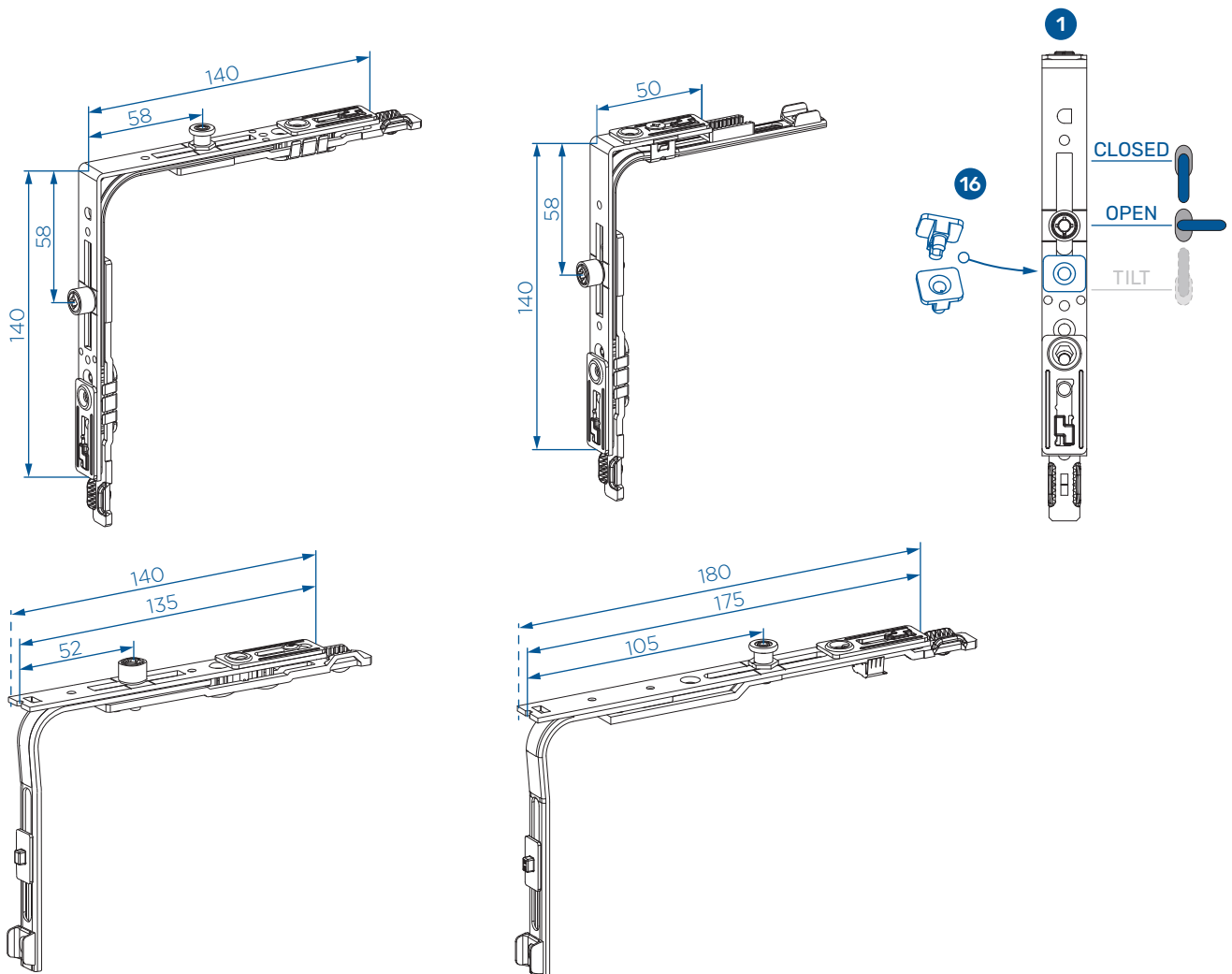
# CORNER DRIVE



# CORNER DRIVE

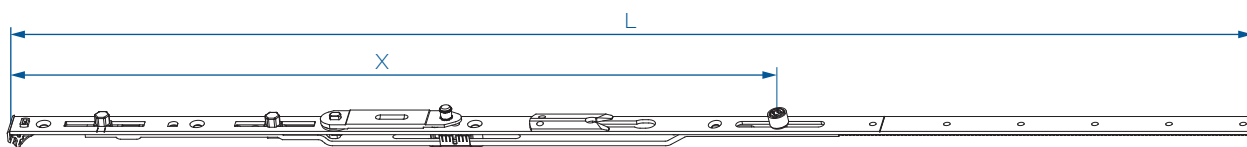


TYPE	DESCRIPTION	CAM				PACK.	MATERIAL
1	Corner drive	1 R	1	•	4	10	1103158
2	Corner drive	1 RS	1	•	4	10	1100983
3	Corner drive	2 R	2	•	4	10	1103159
4	Corner drive	2 RS	2	•	4	10	1100984
5	Corner drive	1 R + 1 RS	2	•	4	10	1100985
6*	Corner drive	1 RS LONG	1	•	4	10	1113170
7	Short corner drive	1 R	1	•	3	10	1103162
8	Short corner drive	1 RS	1	•	3	10	1100986
9	Short corner drive	Shootbolt	1	•	3	10	1103161
10	Corner lock 140	1 R	1	•	2	10	1103166
11	T&Ti Corner lock 140 - SECURITY	1 RS	1	•	2	10	1100988
12*	T&Ti Corner lock 140 - SECURITY	1 RS LONG	1	•	2	10	1113402
13	Corner lock 180	1 R	1	•	2	10	1103164
14	T&Ti Corner lock 180 - SECURITY	1 RS	1	•	2	10	1100987
15	Corner drive - Pitched window	1 R	1	•	4	10	1103163
16	Movement restrictor 90° for corner drive	•	•	•	1	100	1142599



\* FOR LOW THRESHOLD - USE IN COMBINATION WITH T&TI STRIKER **1116153**

# SASH-STAY GUIDE



## Turn & tilt

SRW	L	X	(R)			PACK.	MATERIAL
250 - 430 <sup>1)</sup>	150 / 290	•	•	2* (1)	10	1123308	
411 - 610	250 / 470	•	•	3* (2)	10	1083038	
611 - 810	350 / 670	•	•	5* (4)	10	1083039	
811 - 1010	500 / 870	547	1	6* (5)	10	1083040	
1011 - 1210	500 / 1070	608	1	8* (7)	10	1083041	
1211 - 1400	500 / 1270	808	1	9* (8)	10	1083042	

SRW	L	X	(RS)			PACK.	MATERIAL
811 - 1010	500 / 870	547	1	6* (5)	10	1100978	
1011 - 1210	500 / 1070	608	1	8* (7)	10	1100980	
1211 - 1410	500 / 1270	808	1	9* (8)	10	1100981	

## Turn only

SRW	L	X	(R)			PACK.	MATERIAL
410 - 610	250 / 470	•	•	3* (2)	10	1105855	
611 - 810	350 / 670	•	•	5* (4)	10	1105856	
811 - 1010	500 / 870	547	1	6* (5)	10	1105857	
1011 - 1211	350 / 670+400	547	2	8* (7)	10	1105856 + 1102897	
1211 - 1400	500 / 870+400	547	2	9* (8)	10	1105857 + 1102897	

<sup>1)</sup> SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE

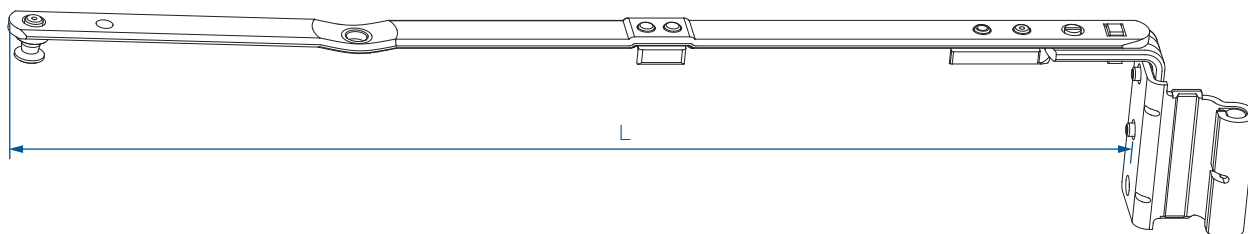
\* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

\* SRH < 500 mm, move the anti-slam device to reduce the tilt

# STAY ARM

## Stay arm

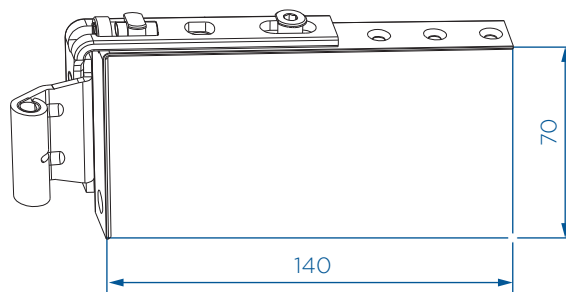


SYSTEM	SRW	L	POSITION	PACK.	MATERIAL
12/18-9	250 - 430 <sup>1)</sup>	150	L	10	1131560
	250 - 430 <sup>1)</sup>	150	R	10	1131561
	410 - 610	250	L	10	1083002
	410 - 610	250	R	10	1083003
	611 - 810	350	L	10	1083004
	611 - 810	350	R	10	1083005
	811 - 1400	500	L	10	1083006
	811 - 1400	500	R	10	1083007
12/20-9	250 - 430 <sup>1)</sup>	150	L	10	1131556
	250 - 430 <sup>1)</sup>	150	R	10	1131567
	410 - 610	250	L	10	1094045
	410 - 610	250	R	10	1094046
	611 - 810	350	L	10	1094047
	611 - 810	350	R	10	1094048
	811 - 1400	500	L	10	1094049
	811 - 1400	500	R	10	1094050
12/18-13	250 - 430 <sup>1)</sup>	150	L	10	1131562
	250 - 430 <sup>1)</sup>	150	R	10	1131563
	410 - 610	250	L	10	1096075
	410 - 610	250	R	10	1096076
	611 - 810	350	L	10	1096077
	611 - 810	350	R	10	1096078
	811 - 1400	500	L	10	1096079
	811 - 1400	500	R	10	1096080
12/20-13	250 - 430 <sup>1)</sup>	150	L	10	1131558
	250 - 430 <sup>1)</sup>	150	R	10	1131559
	410 - 610	250	L	10	1096081
	410 - 610	250	R	10	1096082
	611 - 810	350	L	10	1096083
	611 - 810	350	R	10	1096084
	811 - 1400	500	L	10	1096085
	811 - 1400	500	R	10	1096086

<sup>1)</sup> SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE AND SASH STAY GUIDE 150 / 290

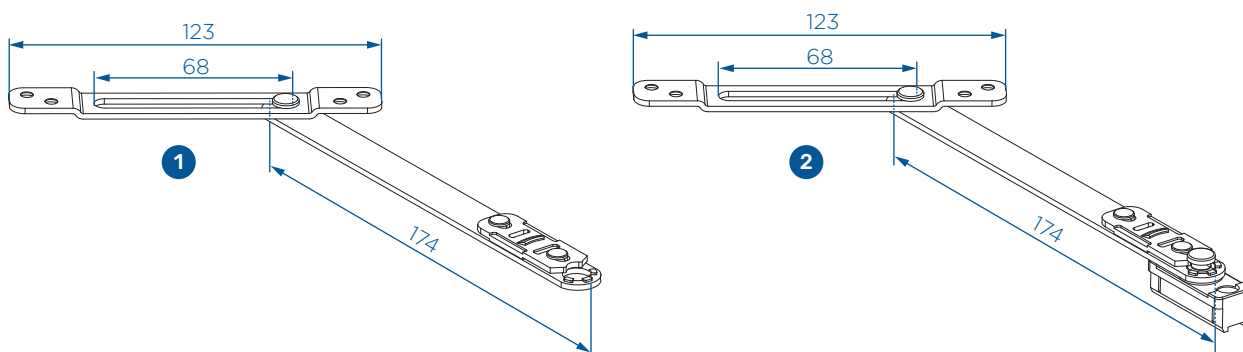
# STAY ARM

## Rebate stay arm



SYSTEM	POSITION	PACK.	MATERIAL
12/18-9	L	5	1093892
	R	5	1093893
12/20-9	L	5	1093894
	R	5	1093895
12/18-13	L	5	1096113
	R	5	1096114
12/20-13	L	5	1096115
	R	5	1096116

## Tilt stay

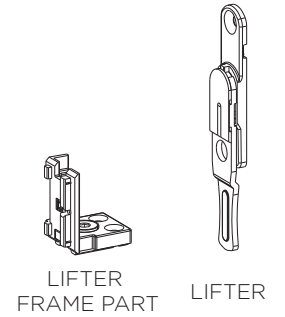
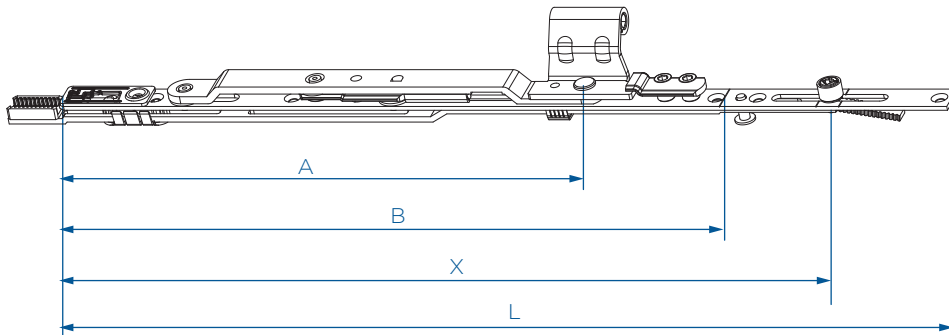


TYPE	DESCRIPTION	PACK.	MATERIAL
1	TILT STAY for espagnolette / center lock	5	1099152
2	TILT STAY for groove	7	1099154



# STAY ARM

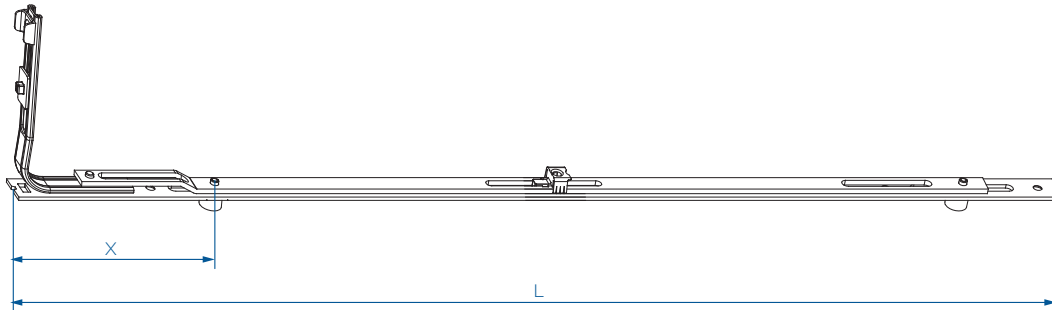
## Stay arm & lifter for arched / pitched window



SYSTEM	REBATE	L	X	A	B				PACK.	MATERIAL
12/18-9	18	430	372	249	320	1	1	10	1104592	
12/20-9		430	372	249	320	1	1	10	1104593	
12/18-9	20	430	372	249	320	1	1	10	1104594	
12/20-9		430	372	249	320	1	1	10	1104595	
12/18-13	20	430	372	249	320	1	1	10	1113860	
12/20-13		430	372	249	320	1	1	10	1113861	

# CENTER LOCK

## With guide

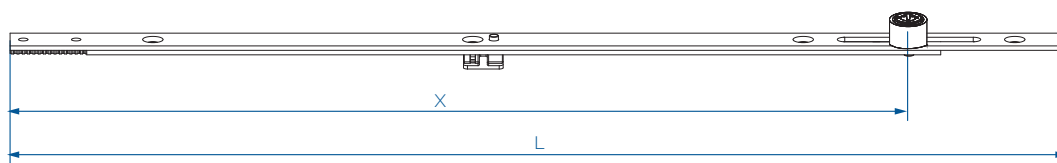


SRH	SRW	L	X	X	X	X			PACK.	MATERIAL
600 - 800	600 - 800	350	299	•	•	•	1	4	10	1093871
801 - 1200	801 - 1200	550	105	499	•	•	2	4	10	1083058
1201 - 1600	1201 - 1400	850	105	799	•	•	2	6	10	1083059
1601 - 2200	•	1550	105	799	1499	•	3	10	10	1083060
2201 - 2400	•	2000	105	799	1499	1949	4	11	10	1083064

SRH	SRW	L	X	X	X	X			PACK.	MATERIAL
801 - 1200	801 - 1200	550	105	499	•	•	2	4	10	1101000
1201 - 1600	1201 - 1400	850	105	799	•	•	2	6	10	1101002
1601 - 2200	•	1550	105	799	1499	•	3	10	10	1101003
2201 - 2400	•	2000	105	799	1499	1949	4	11	10	1101004

## Without guide



DESCRIPTION	L	X				PACK.	MATERIAL
400	400	339	1	4	10	1083061	
600	600	539	1	4	10	1083062	
600 coupling	600	539	1	4	10	1102900	

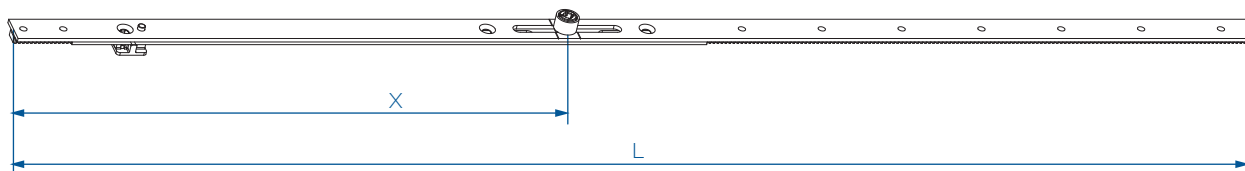
  

DESCRIPTION	L	X				PACK.	MATERIAL
200	200	139	1	2	10	1101005	
400	400	339	1	4	10	1101006	
400*	400	339	1	4	10	1121626	
600	600	539	1	4	10	1101012	
200 coupling	200	139	1	2	10	1101015	
400 coupling	400	339	1	4	10	1101016	
600 coupling	600	539	1	4	10	1101017	

\* FOR LOW THRESHOLD - USE IN COMBINATION WITH T&TI STRIKER 1116153

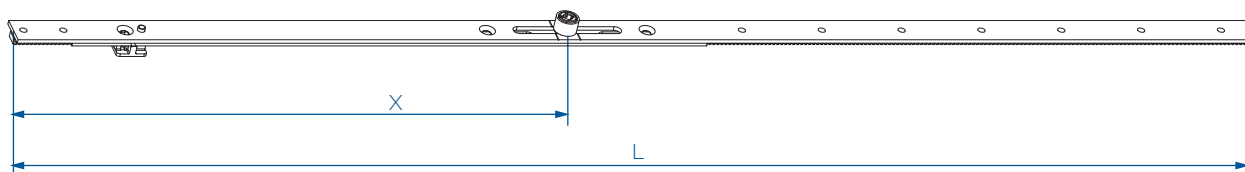
# CENTER LOCK - ARCHED / PITCHED WINDOW

## Vertical



SRH	L	X	X			PACK.	MATERIAL
580 - 900	370	•	•	•	1	10	1083076
901 - 1100	620	276	•	1	3	10	1083077
1101 - 1400	870	526	•	1	4	10	1083078
1401 - 1690	1120	276	776	2	6	10	1083079
1691 - 1900	1120 + 400	276	776	2 + 1	6 + 3	10 + 10	1083079 + 1102897

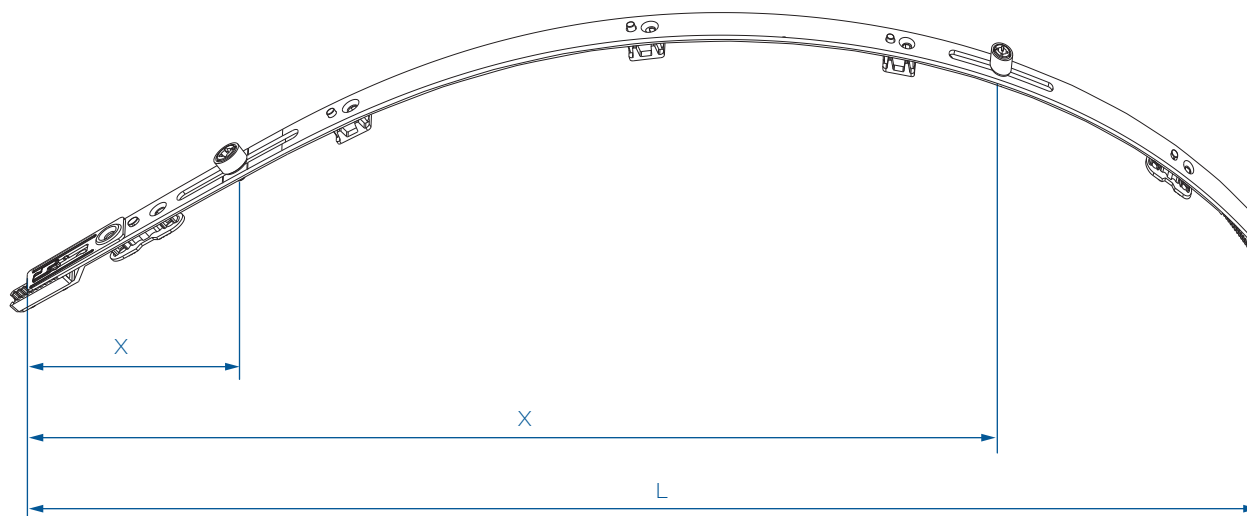
## Horizontal



SRW	L	X	X			PACK.	MATERIAL
400 - 650	370	•	•	•	1	10	1083076
651 - 900	620	276	•	1	3	10	1083077
901 - 1150	870	526	•	1	4	10	1083078
1151 - 1400	1120	276	776	2	6	10	1083079

# CENTER LOCK - ARCHED / PITCHED WINDOW

## Arched

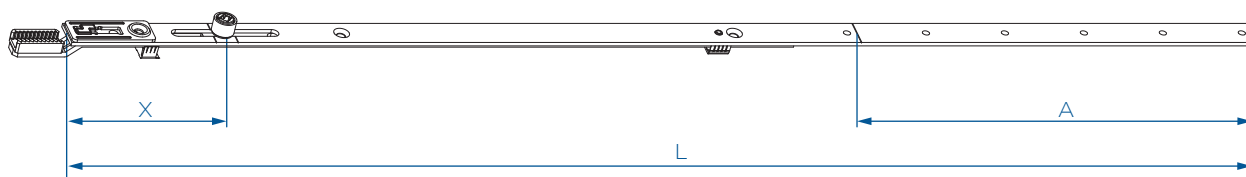









SRW	L*	X*	X*			PACK.	MATERIAL
800 - 1400	590	79	429	2	6	10	1103143

\* dimensions in table are given for a stretched / straight center lock (before bending)

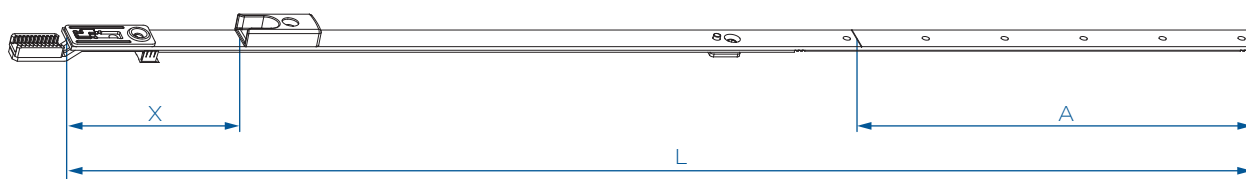
# ESPAGNOLETTE EXTENSION








## Primary window



							
DESCRIPTION	A	L	X			PACK.	MATERIAL
400	200	400	79	1	3	10	1102897
600	200	600	79	1	4	10	1102898
800	200	800	79	1	5	10	1102899

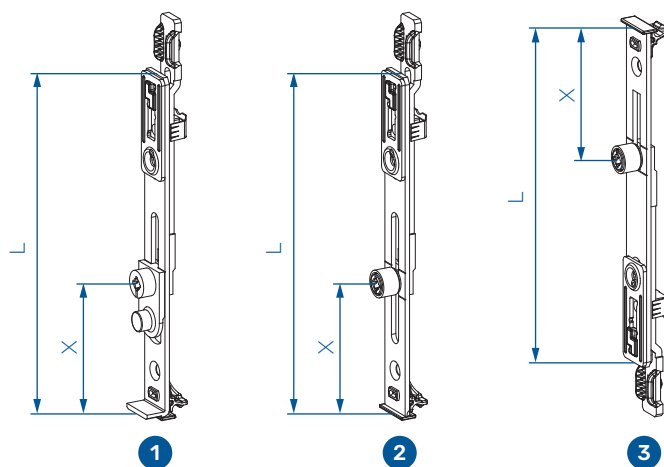
## French window



							
DESCRIPTION	A	L	X			PACK.	MATERIAL
400	200	400	87,5	1	3	10	1105373
600	200	600	87,5	1	4	10	1105374

# ESPAGNOLETTE EXTENSION

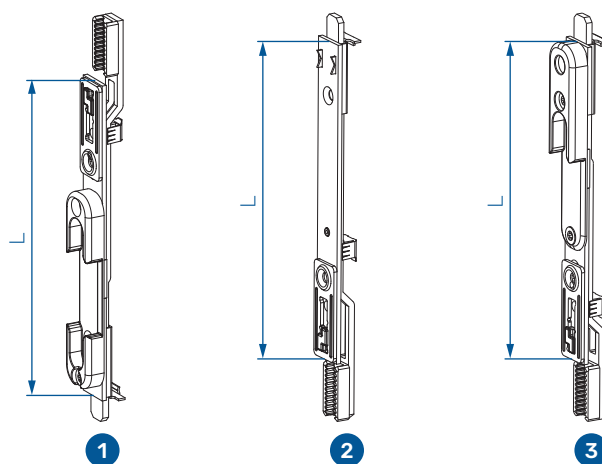
## Lock bolt



TYPE	DESCRIPTION	L	X	PACK.	MATERIAL
1	TILT LOCK BOLT < 1000	140	•	3* (2)	1102388
	TILT LOCK BOLT > 1001	140	•	3* (2)	1102391
2	TILT LOCK BOLT 140	140	•	3* (2)	1102394
3	TILT LOCK BOLT 140/90	140	•	3* (2)	1102395

\* WITHOUT THE USE OF CENTER LOCK  
(X) WITH THE USE OF CENTER LOCK

## French window lock bolt

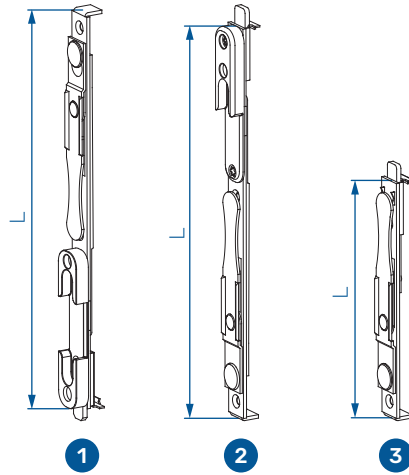


TYPE	DESCRIPTION	L	PACK.	MATERIAL
1	T&T EXT. FR. WIN. ESPAGNOLETTE M - 11 mm - BOTTOM	140	3* (2)	1102621
2	EXT. FR. WIN. ESPAGNOLETTE - 11 mm	140	3* (2)	1103211
3	EXT. FR. WIN. ESPAGNOLETTE - 11 mm - TOP	140	3* (2)	1110929

\* WITHOUT THE USE OF CENTER LOCK  
(X) WITH THE USE OF CENTER LOCK

# SHOOTBOLT

## OHG

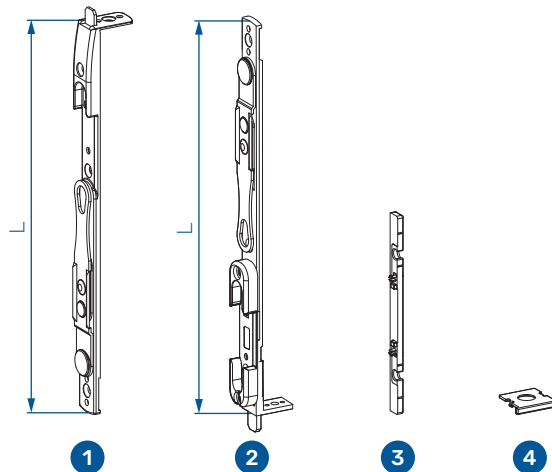


TYPE	DESCRIPTION	L		PACK.	MATERIAL
1	T&T SHOOTBOLT - BOTTOM	230	3* (2)	50	1083252
2	SHOOTBOLT with STRIKER - TOP	230	3* (2)	50	1083253
3	SHOOTBOLT without STRIKER - TOP	140	2	100	1083254

\* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

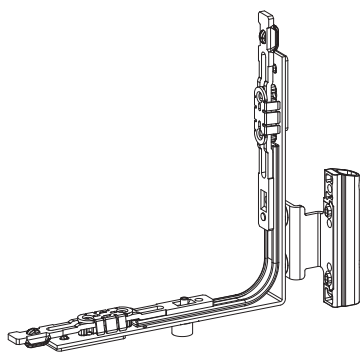
## Euro rebate



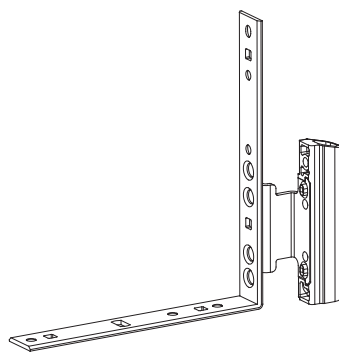
TYPE	DESCRIPTION	L		PACK.	MATERIAL
1	SHOOTBOLT 18 mm	230	3	50	1093890
2	T&T SHOOTBOLT 18 mm	230	3	50	1093889
3	SHOOTBOLT PACKER 7/8	.	.	500	1127375
4	SHOOTBOLT PACKER 20 mm	.	.	2000	1127376

# HINGE SIDE

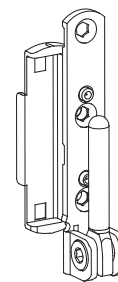
Hinge side - DOWN



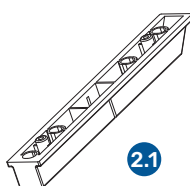
1



2



3



2.1



TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
1	CORNER HINGE - pitched/arched 12/18-9	L	6	10	1105288
		R	6	10	1105289
	CORNER HINGE - pitched/arched 12/20-9	L	6	10	1105290
		R	6	10	1105291
	CORNER HINGE - pitched/arched 12/18-13	L	6	10	1105292
		R	6	10	1105293
	CORNER HINGE - pitched/arched 12/20-13	L	6	10	1105294
		R	6	10	1105295



TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
2	CORNER HINGE 12/18-9	L	8	40	1083245
		R	8	40	1083246
	CORNER HINGE 12/20-9	L	8	40	1093883
		R	8	40	1093884
	CORNER HINGE 12/18-13	L	8	40	1096619
		R	8	40	1096621
CORNER HINGE 12/20-13	L	8	40	1096622	
	R	8	40	1096623	
2.1	CORNER HINGE PACKER	/	/	100	1135319

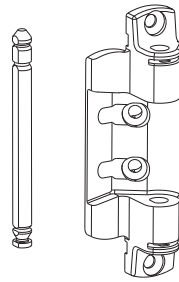


TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
3	CORNER PIVOT REST 12/18-9 (13)	L	3	100	1083248
		R	3	100	1083249
	CORNER PIVOT REST 12/20-9 (13)	L	3	100	1093886
		R	3	100	1093887



# HINGE SIDE

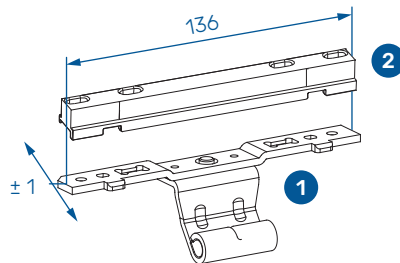
Hinge side - UP



DESCRIPTION	POS.		PACK.	MATERIAL
STAY BEARING WITH PIN 12/18-9 (13)	L / R	4	100	1107263
STAY BEARING WITH PIN 12/20-9 (13)	L / R	4	100	1107264

# HINGE SIDE

Hinge side - BOTTOM / SIDE



TILT WINDOW - SRW	NUMBER OF HINGES and PACKERS
< 1200	2
1201 - 2200	3
2201 - 2400	4

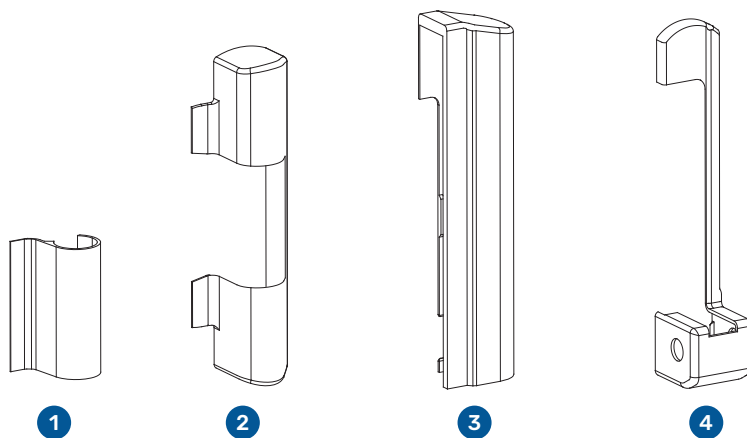


TYPE	DESCRIPTION		PACK.	MATERIAL
1	REBATE CENTER HINGE 12/18-9 - adjustable	4	50	1093896
	REBATE CENTER HINGE 12/20-9 - adjustable	4	50	1093897
	REBATE CENTER HINGE 12/18-13 - adjustable	4	50	1096617
	REBATE CENTER HINGE 12/20-13 - adjustable	4	50	1096618



TYPE	DESCRIPTION	PACK.	MATERIAL
2	REBATE CENTER HINGE PACKER	100	1094661

# COVER CAPS



TYPE	DESCRIPTION	RAL	PACK.	POS.	MATERIAL
1	COVER CAP STAY ARM	Bronze	500		1095450
		Dark Bronze	500		1127488
		Silver	500		1127489
		Titan matt	500		1103970
		Gold shine	500		1109410
		Gold matt	500		1095448
		RAL8019 - Grey brown	500		1127484
		RAL9005 - Black	500		1127486
		RAL9016 - White	500		1127485
2	COVER CAP STAY BEARING	Bronze	100		1107268
		Dark Bronze	100		1095446
		Silver	100		1127482
		Titan matt	100		1103990
		Gold shine	100		1109409
		Gold matt	100		1127483
		RAL8019 - Grey brown	100		1127475
		RAL9005 - Black	100		1127477
		RAL9016 - White	100		1127476
3	COVER CAP CORNER HINGE	Bronze	150	L	1095437
				R	1095438
		Dark Bronze	150	L	1095435
				R	1095436
		Silver	150	L	1093920
				R	1093921
		Titan matt	150	L	1103983
				R	1103984
		Gold shine	150	L	1109405
				R	1109406
		Gold matt	150	L	1095433
				R	1127449
		RAL8019 - Grey brown	150	L	1127440
				R	1127439
		RAL9005 - Black	150	L	1127444
R	1127442				
RAL9016 - White	150	L	1127443		
		R	1127441		

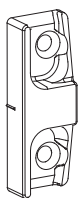
## COVER CAPS

4	COVER CAP CORNER PIVOT REST	Bronze	200	L	1095443
				R	1095444
		Dark Bronze	200	L	1127468
				R	1095442
		Silver	200	L	1127463
				R	1127471
		Titan matt	200	L	1103981
				R	1103982
		Gold shine	200	L	1109407
				R	1109408
		Gold matt	200	L	1095439
				R	1095440
		RAL8019 - Grey brown	200	L	1093900
				R	1127458
RAL9005 - Black	200	L	1127460		
		R	1127462		
RAL9016 - White	200	L	1127459		
		R	1127461		

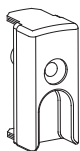
\* COVER CAPS "RAL" ARE INJECTED

\* COVER CAPS "COLOR" ARE COLORED

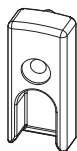
## Striker



1



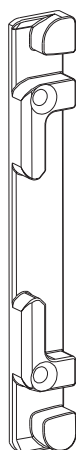
2



3

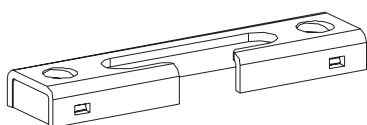
TYPE	REBATE	PACK.	MATERIAL
1	18	300	1083212
	20	300	1083211
	7/8	300	1083213
2	OHG	300	1083207
3	ESPAG.	300	1100213

## T&T striker



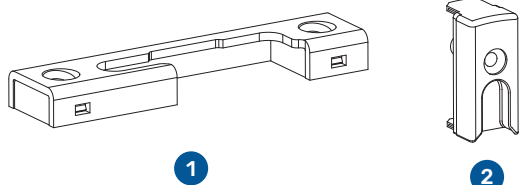
REBATE	PACK.	MATERIAL
18	250	1083200
20	250	1083199
7/8	250	1083201

## T&Ti striker



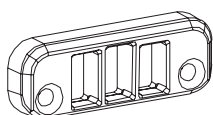
REBATE	POS.	PACK.	MATERIAL
18	L	100	1104544
	R	100	1104545
20	L	100	1104546
	R	100	1095426

## Security striker



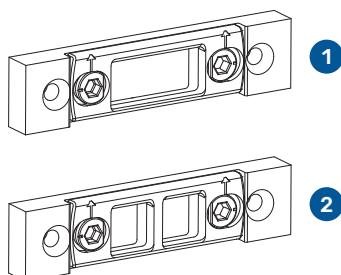
TYPE	REBATE	POS.	PACK.	MATERIAL
1	18	L	250	1085745
		R	250	1083222
	20	L	250	1085744
		R	250	1083221
	7/8	L	250	1085746
		R	250	1083223
2	OHG	L / R	300	1066042

## Striker - second sash



REBATE	PACK.	MATERIAL
18	300	1083233
20	300	1083231
7/8	300	1083232

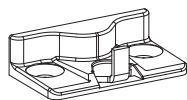
## Shootbolt striker - second sash



TYPE	REBATE	PACK.	MATERIAL	
1	SINGLE	18	300	1106242
2	DOUBLE	18	300	1105375
		7/8	300	1106111

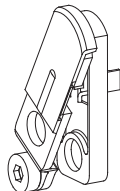
\* SHOOTBOLT STRIKERS ARE ADJUSTABLE

## Night vent striker

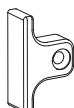


REBATE	PACK.	MATERIAL
18	100	1096667
20	100	1096668
7/8	100	1096670

## Mishandling device



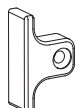
1



2



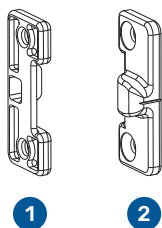
3



4

TYPE	REBATE	PACK.	MATERIAL
1	SASH	300	1093907
	18	300	1093905
2	20	300	1093904
	7/8	300	1093906
3	OHG	300	1083293
4	OHG ESPAG.	300	1083295

## Concealed center striker

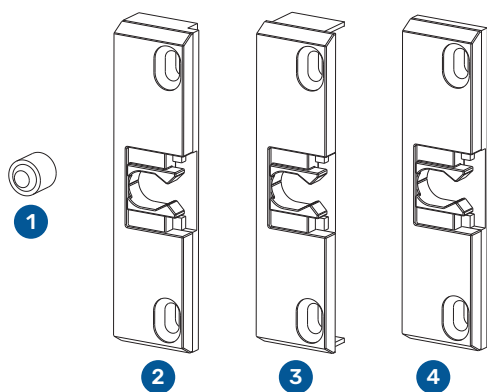


TYPE	REBATE	PACK.	MATERIAL
1	SASH	300	1093911
	18	500	1093908
2	20	500	1127514
	7/8	450	1093910

### NUMBER OF CONCEALED CENTER STRIKERS ACCORDING TO SASH REBATE HEIGHT

SRH	NR. OF STRIKERS
800 - 1400	1
1401 - 2000	2
2001 - 2400	3

## Bullet catch



TYPE	REBATE	PACK.	MATERIAL
1	SASH	2000	1083305
	18	100	1093912
2	20	100	1093913
	7/8	100	1093914
3	OHG	100	1107887
4*	OHG ESPAG.	100	1093200

\* FOR FR. WIN. ESPAGNOLETTE SRH > 1600 mm





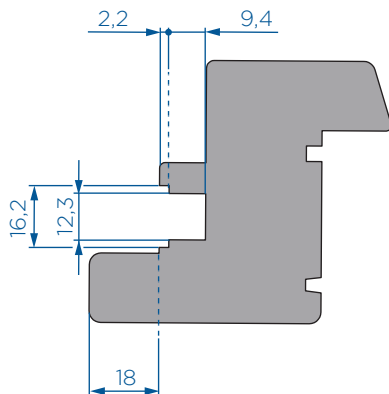


# Installation instructions

Profile treatment, hardware mounting, hardware maintenance  
Detailed information

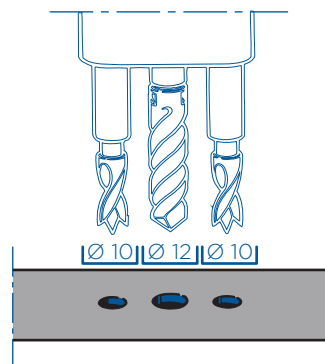
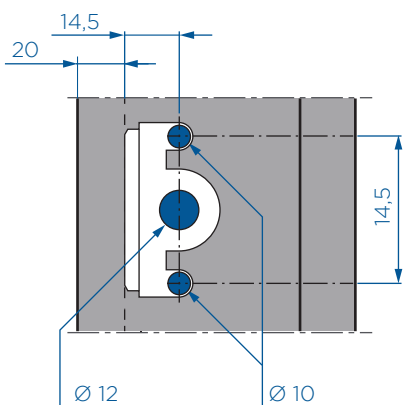
## Sash cross section

TYPICAL PROFILE DIMENSIONS



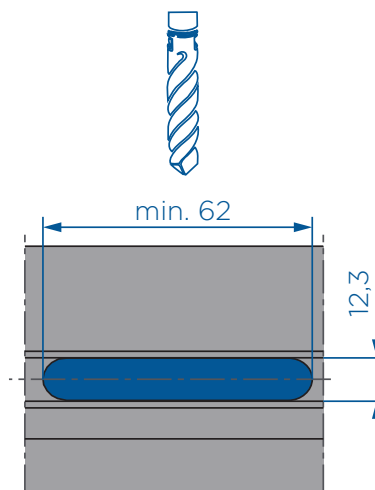
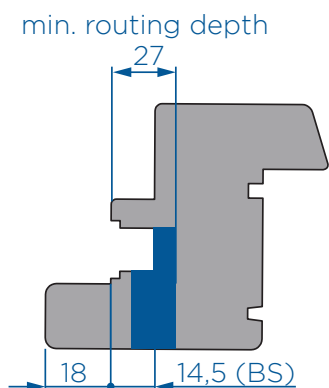
## Window-handle drilling

GEAR-CASE SPROCKET AND LUGS' DRILL HOLE



## Gear-case routing

ESPAGNOLETTE GEAR-CASING



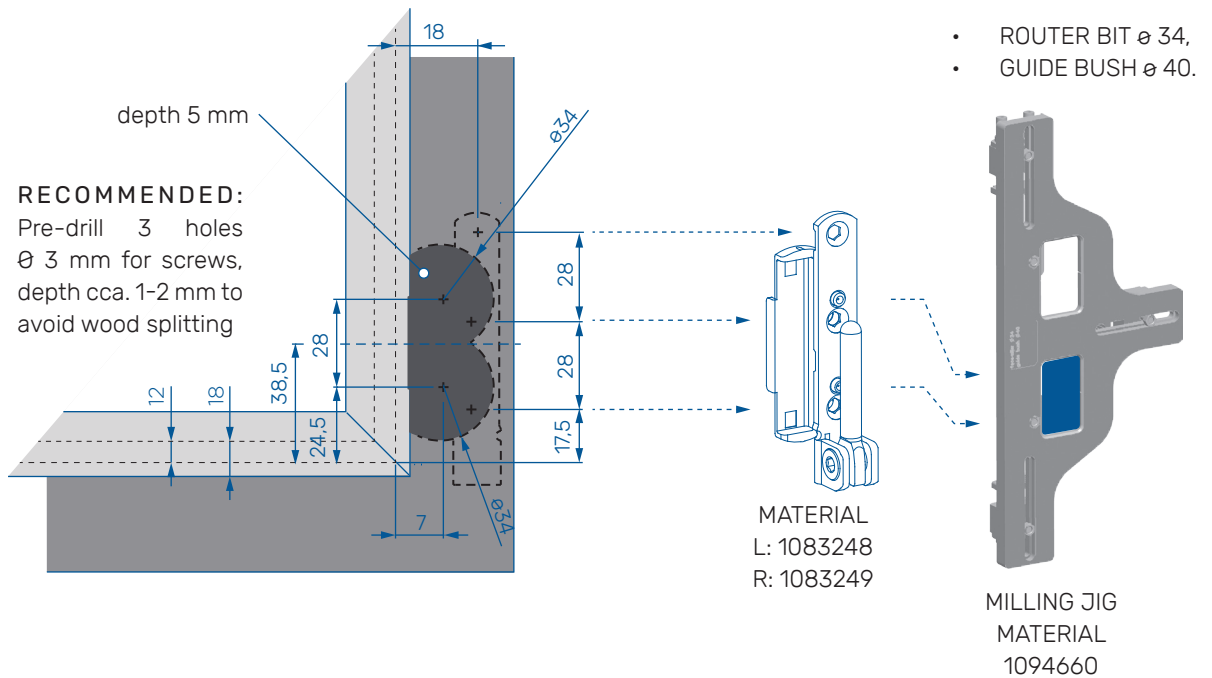




# FRAME PROFILE TREATMENT

## Corner pivot rest - overlap 18 mm

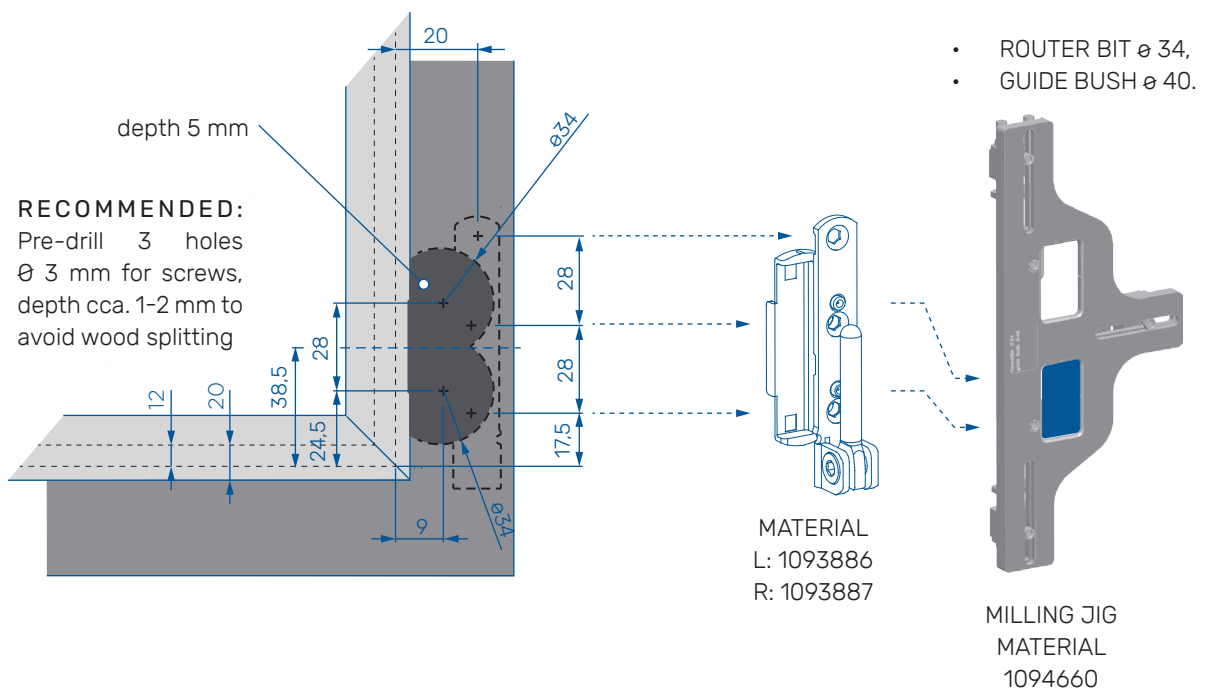
12/18-9 and 12/18-13



\* READJUST THE MILLING JIG TO 18 mm HARDWARE OVERLAP

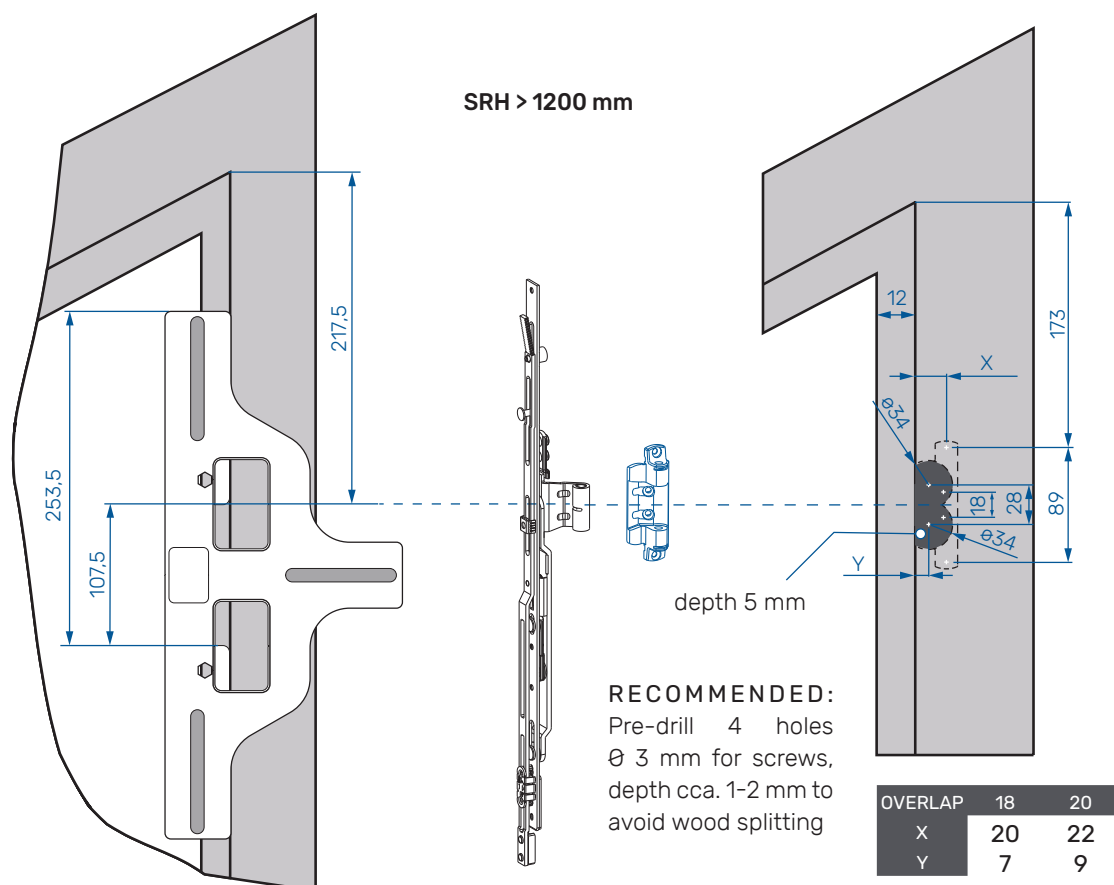
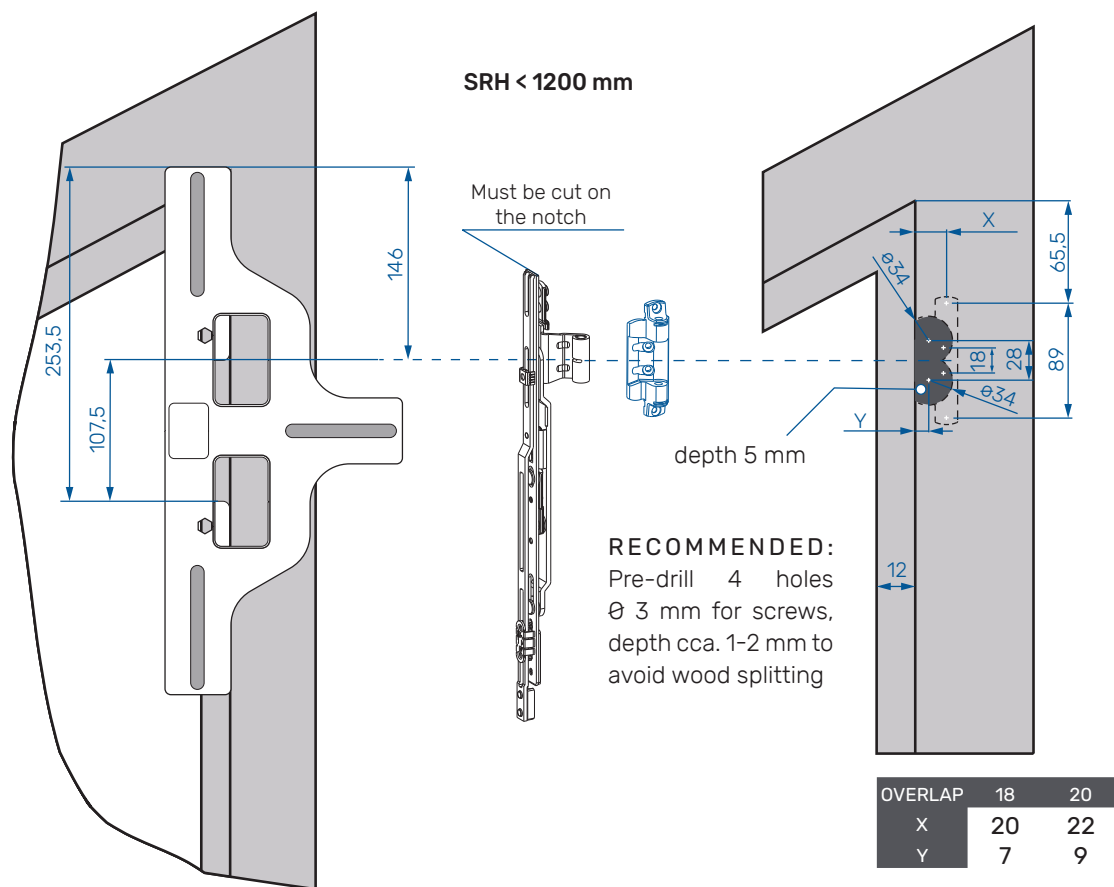
## Corner pivot rest - overlap 20 mm

12/20-9 and 12/20-13

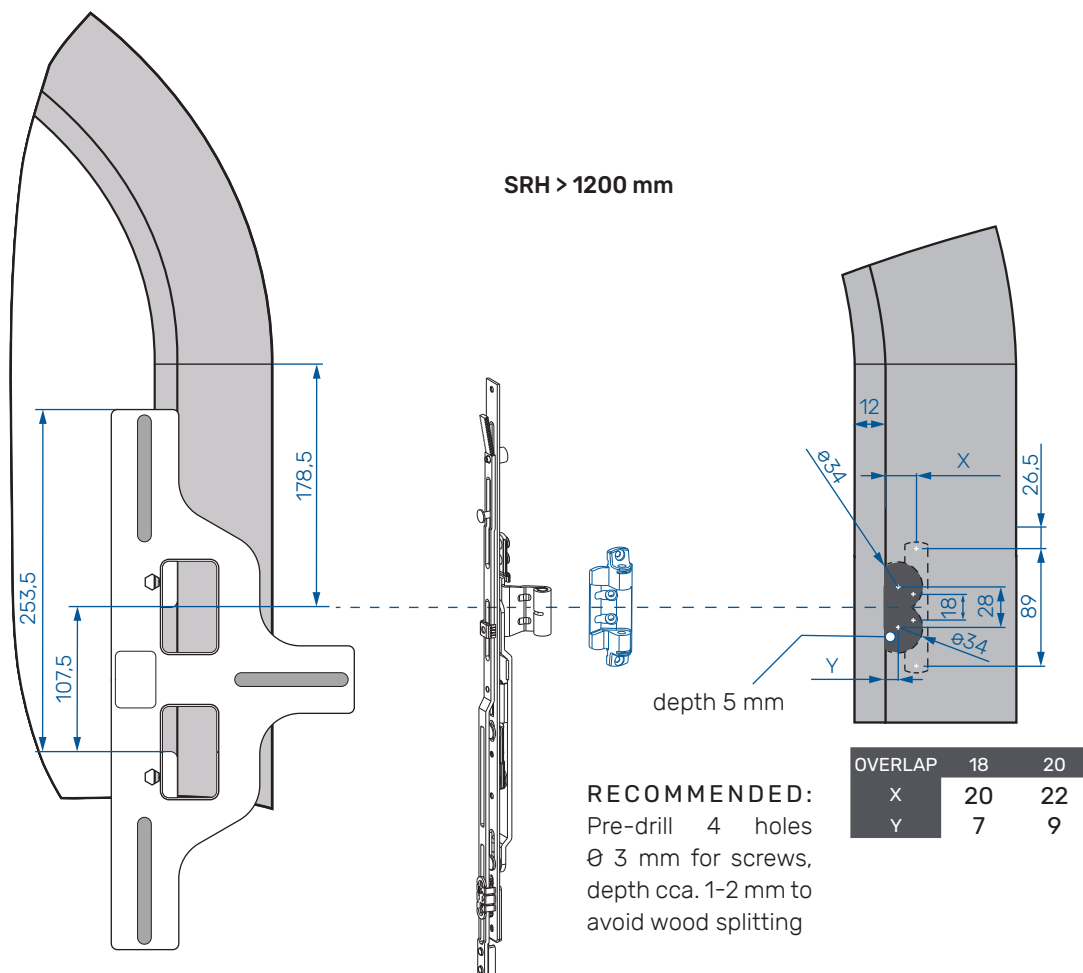
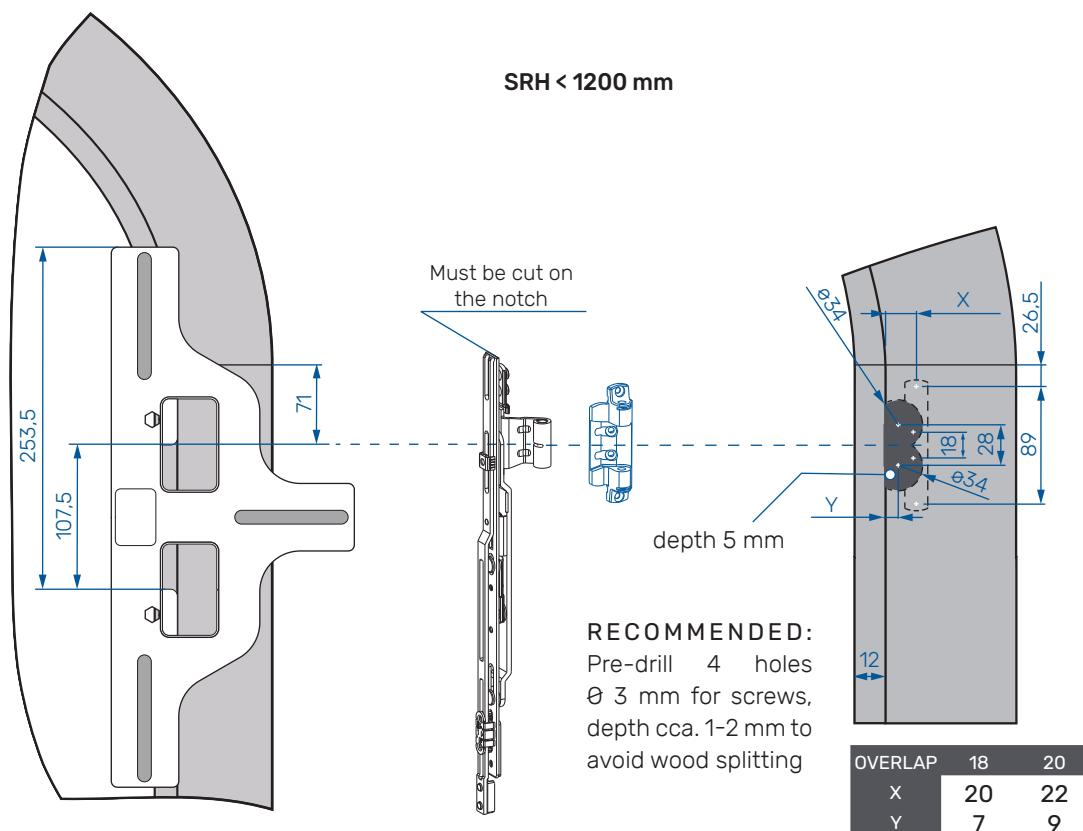


\* READJUST THE MILLING JIG TO 20 mm HARDWARE OVERLAP

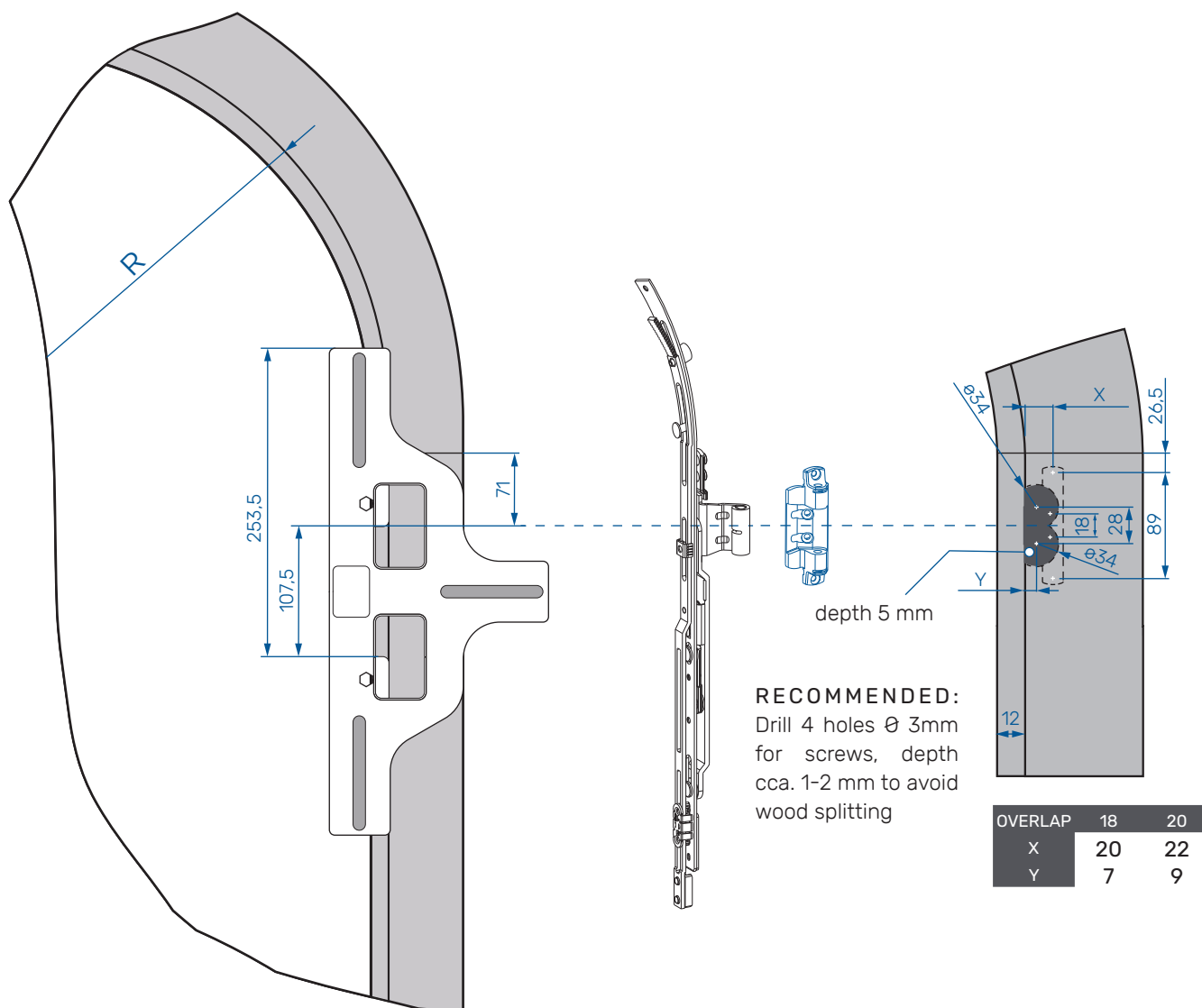
## Pitched window - upper hinge



## Arched window - upper hinge



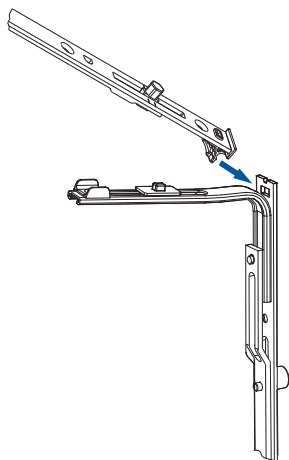
## Pitched window - upper hinge



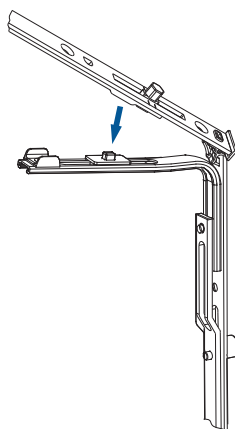


# INSTALLATION INSTRUCTIONS

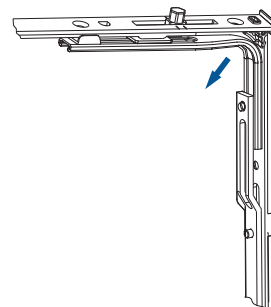
## Sash stay guide and center lock assembly



1.) Insert the connecting bracket into the hole of a centre lock

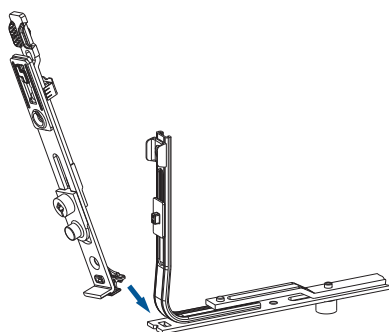


2.) Clamp the hole of a driving rod onto the stay guide connector

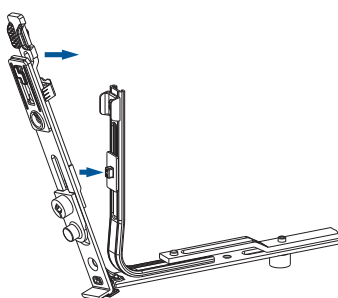


3.) Insert the assembly into a sash groove

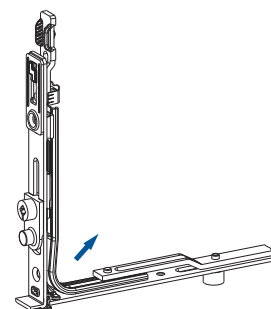
## Tilt lock bolt and center lock assembly



1.) Insert the connecting bracket into the hole of a centre lock

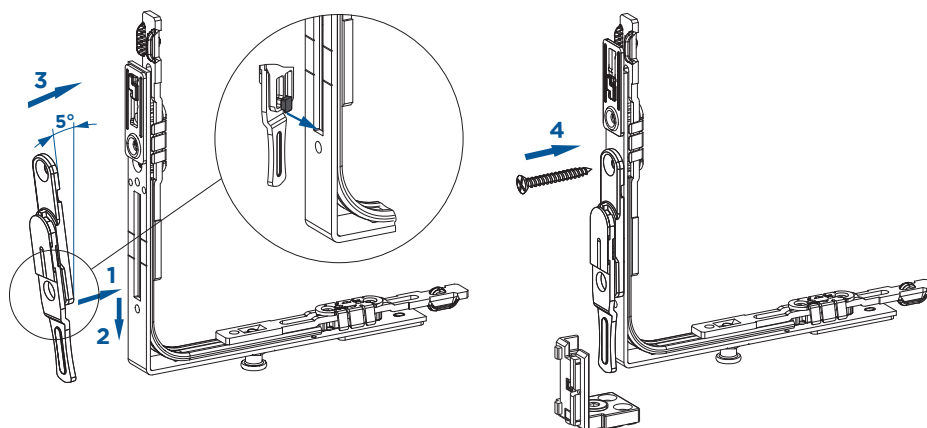


2.) Clamp the hole of a driving rod onto the tilt lock bolt connector

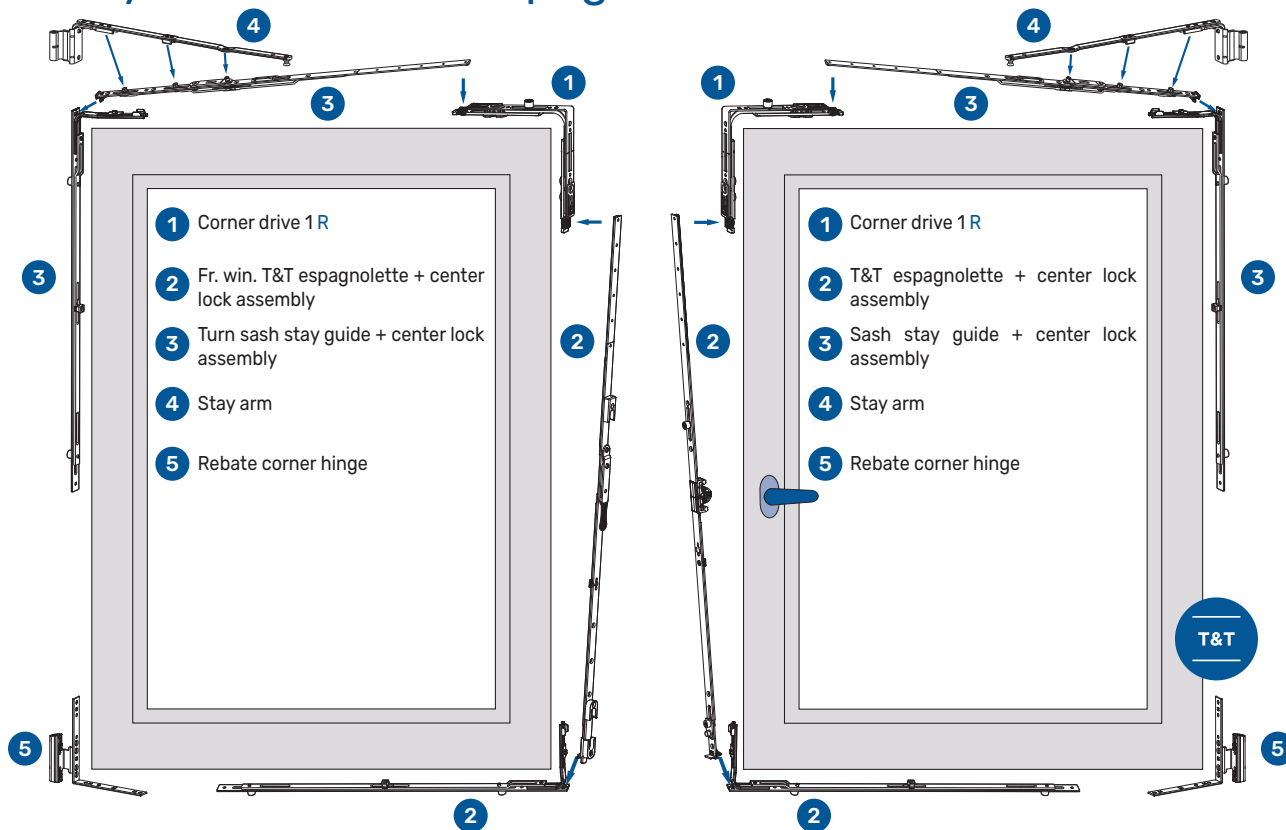


3.) Insert the assembly into a sash groove

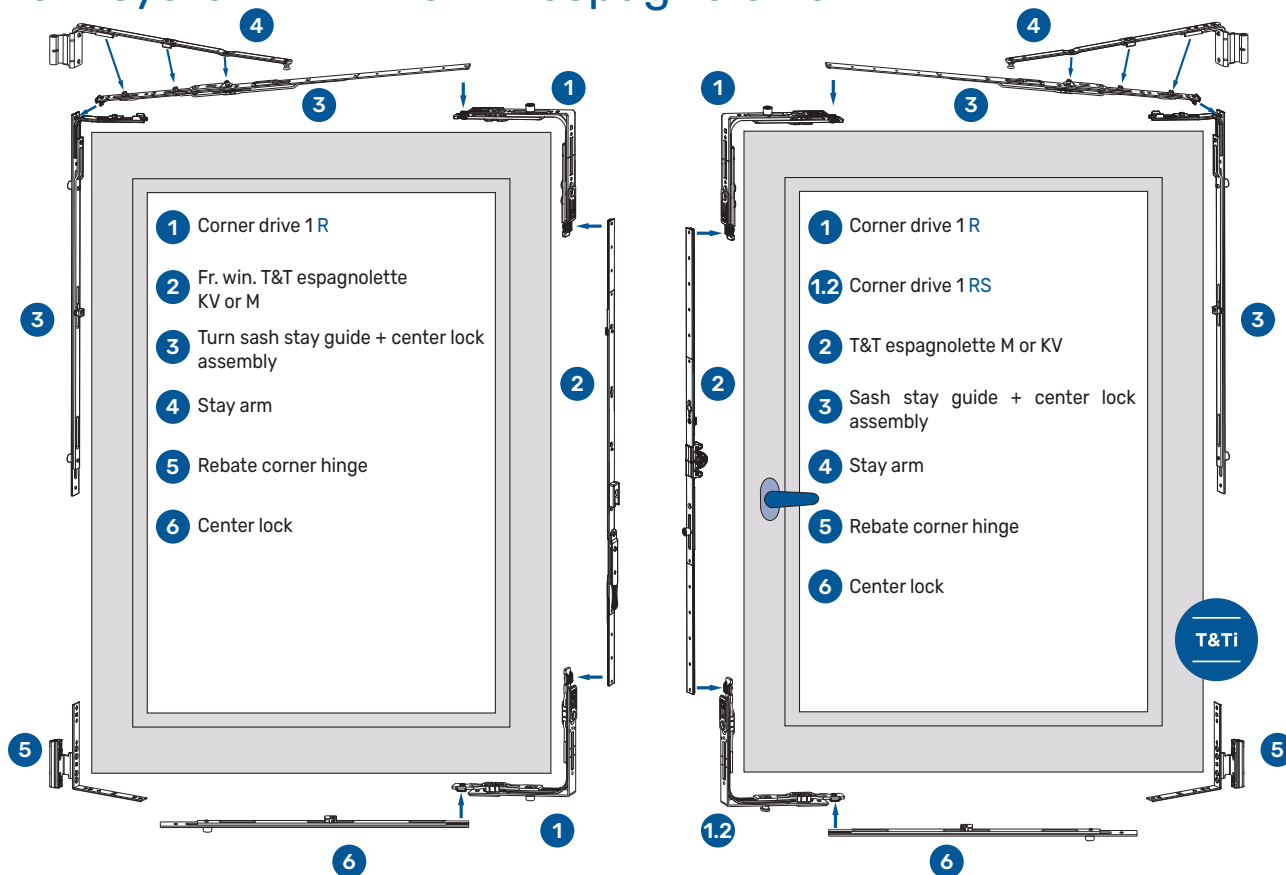
## Pitched / arched window - sash lifter



## T&T system with T&T espagnolette

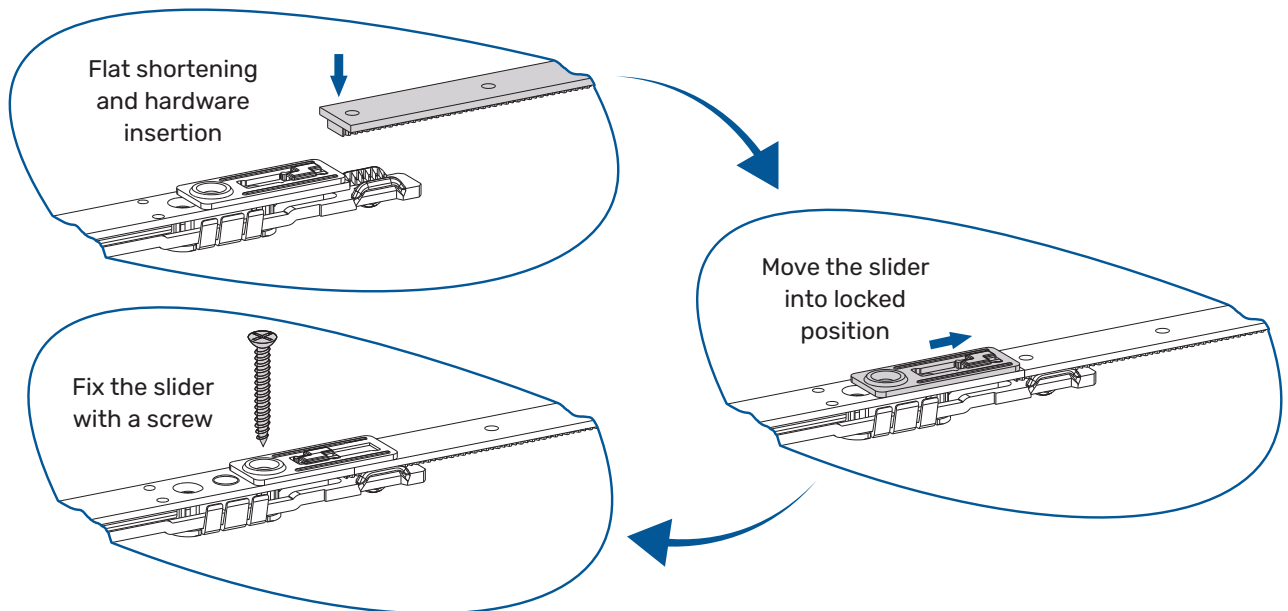


## T&Ti system with T&T M espagnolette

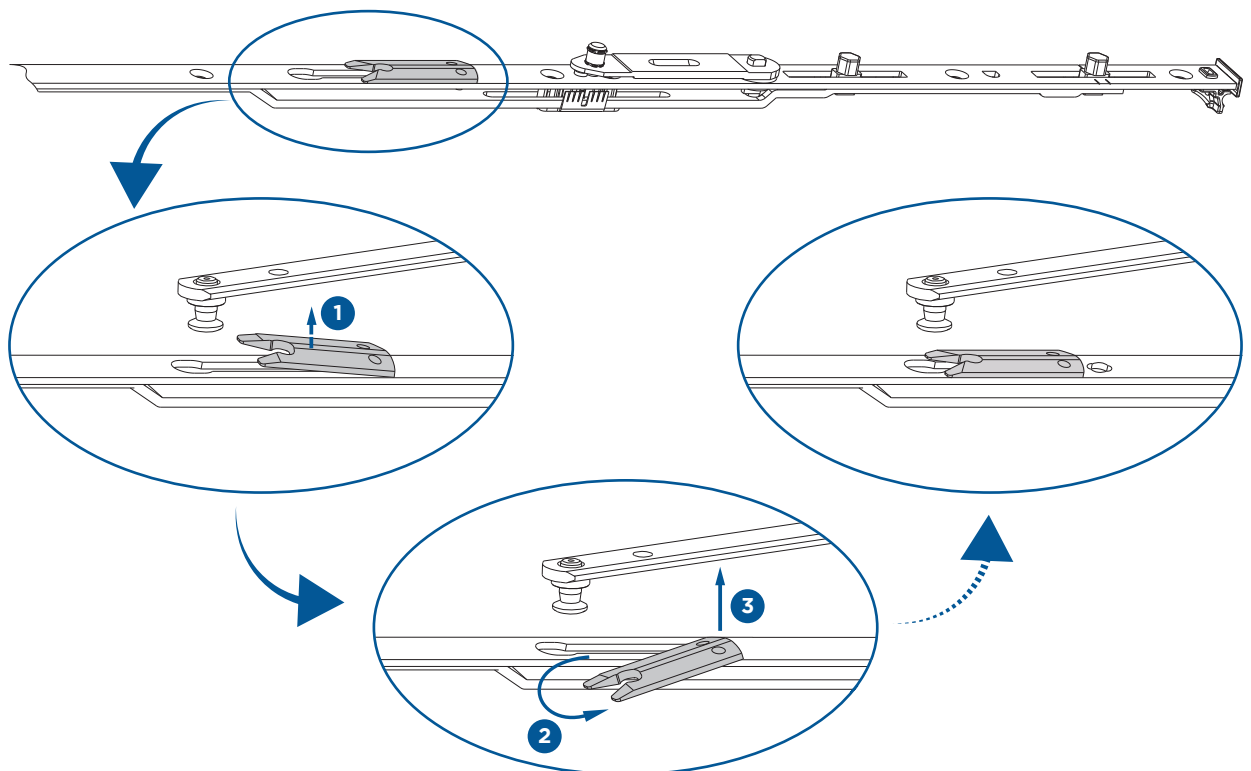


# INSTALLATION INSTRUCTIONS

## Slider



## Anti slam device - tilt reduction

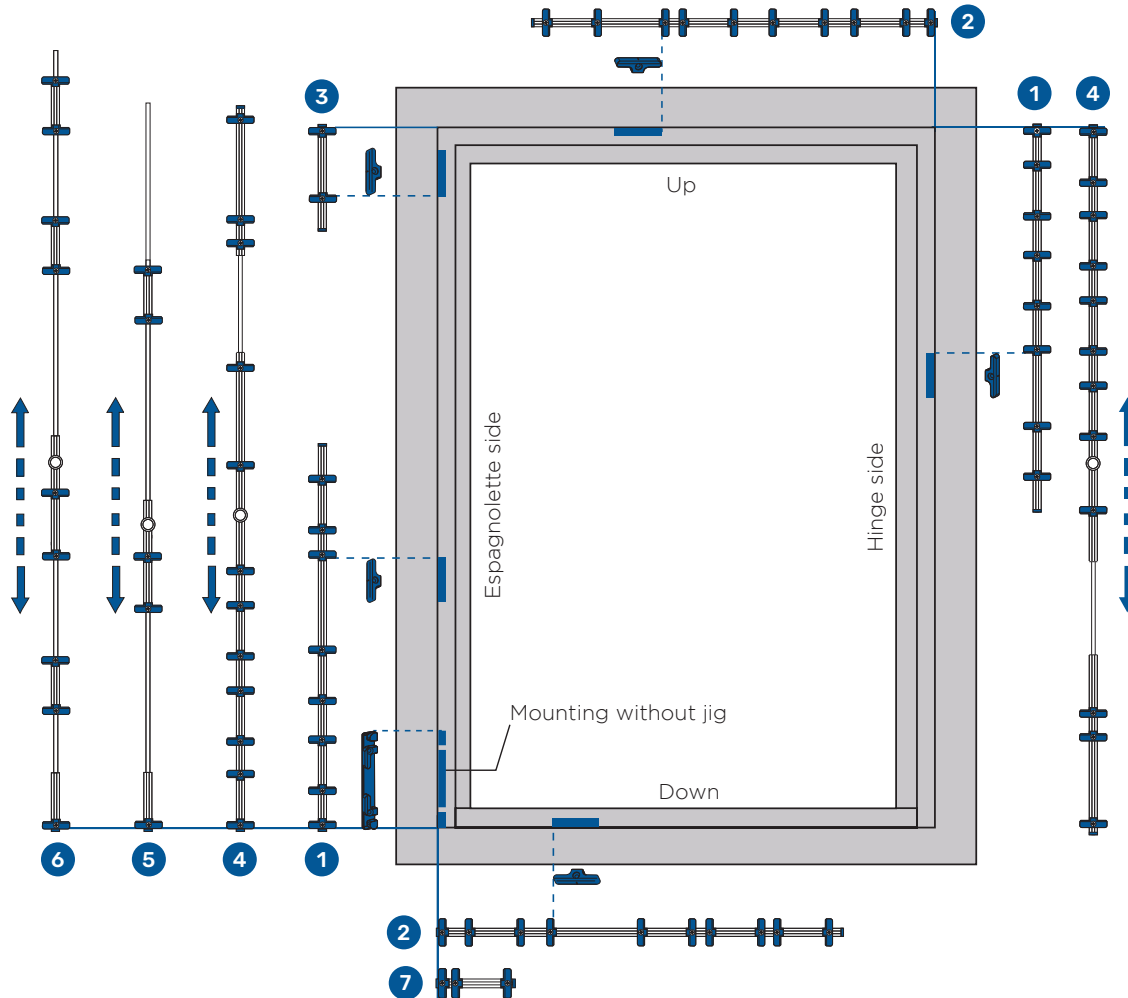


\*PICTURES REPRESENT THE ADJUSTMENT OF THE ANTI-SLAM DEVICE (TILT REDUCEMENT)

\*MOVE THE ANTI-SLAM DEVICE ON WINDOWS SRH < 500 mm, TO REDUCE TILT

# STRIKER JIGS INSTALLATION INSTRUCTIONS

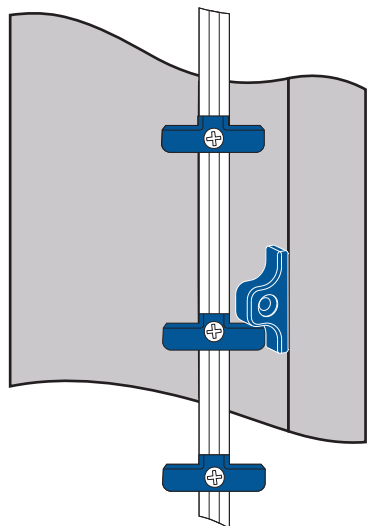
## Types



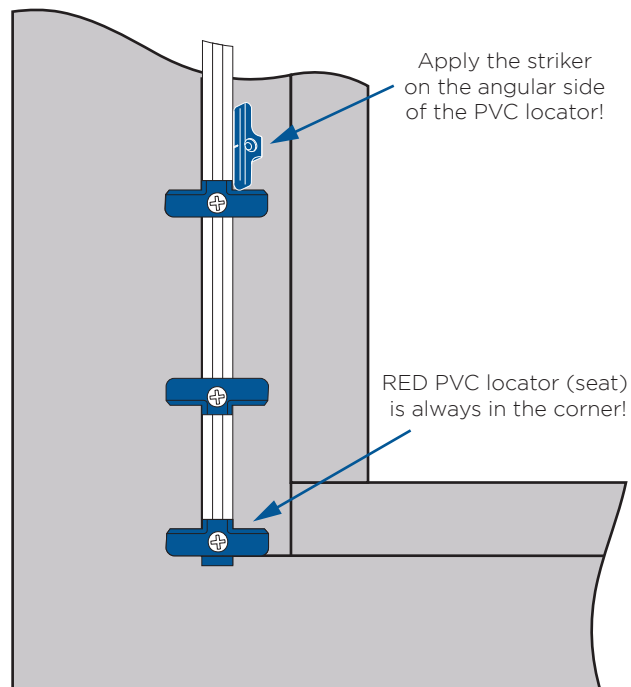
TYPE	DESCRIPTION	NOTE	MATERIAL
1	Constant handle height espag. / hinge side center lock	SRH < 1600	1103566
1a	TYPE 1 - with additional cam - telescopic jig	SRH < 1600	1103567
2	Center lock and sash stay guide up / center lock down	SRW < 1400	1103568
3	Corner drive	SRW < 1400	1103569
4	Constant handle height espag. - telescopic jig (door)	SRH > 1601	1103570
4a	TYPE 4 - with additional cam	SRH > 1601	1103571
5	Centered handle height espag. - telescopic jig (window)	SRH < 1600	1103572
5a	TYPE 5 - with additional cam	SRH < 1600	1103573
6	Centered handle height espag. - telescopic jig (door)	SRH > 1601	1103574
6a	TYPE 6 - with additional cam	SRH > 1601	1103575
7	T&Ti striker	SRW < 1400	1108014

# STRIKER JIGS INSTALLATION INSTRUCTIONS

## Instructions for use



MSD scheme

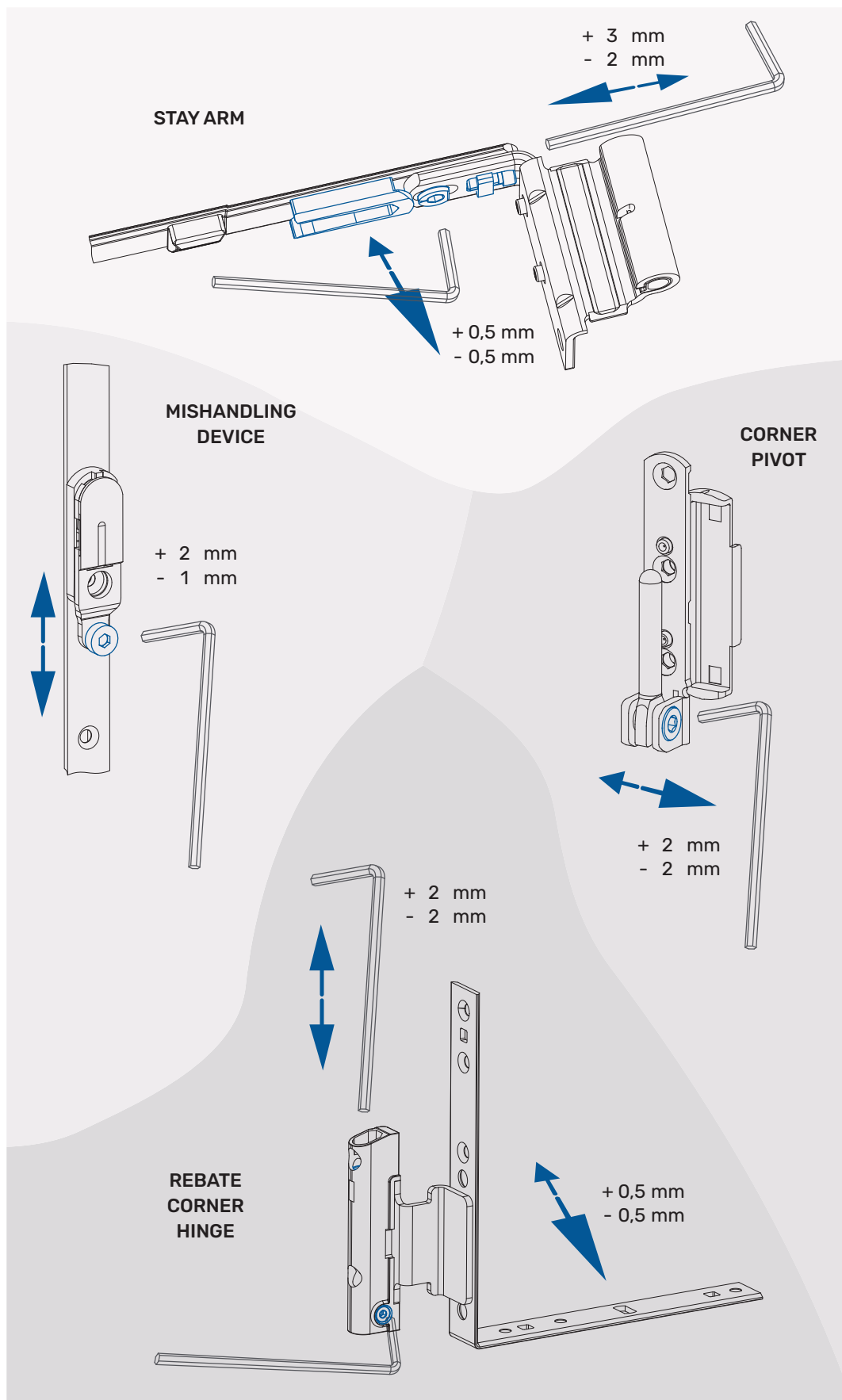


CAM scheme



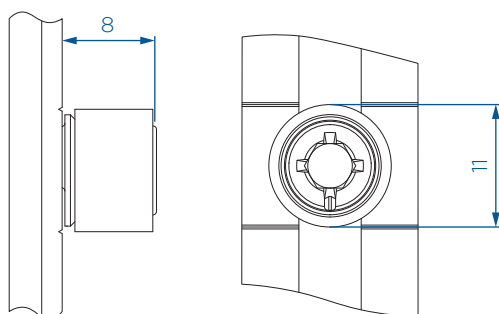
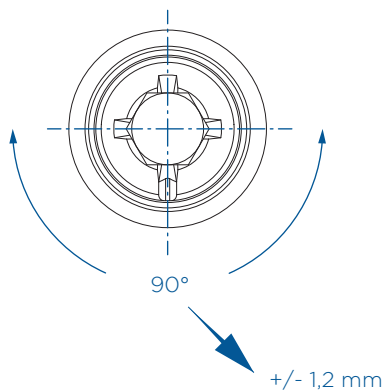
COLOR of PVC LOCATOR	DESCRIPTION	NOTES
RED	Seat - NO locking cam	No striker
YELLOW	Corner drive locking cam	Located next to the seat
YELLOW	Espagnolette locking cam	/
GREEN	Mishandling device - frame part	Montage shown on MSD scheme
BLUE	Sash stay guide locking cam	/
BROWN	Center lock locking cam	/

## Face-fit hinge side

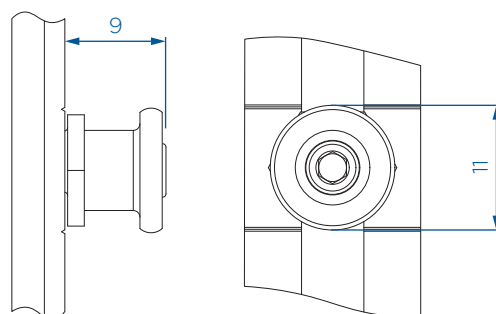
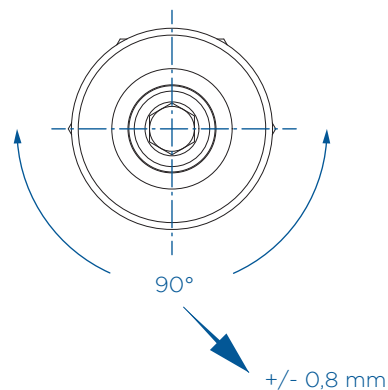


# LOCKING CAM ADJUSTMENT INSTRUCTIONS

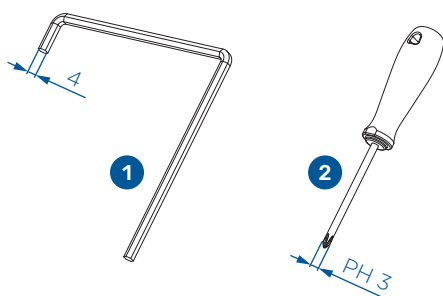
## ROLLING CAM / R CAM



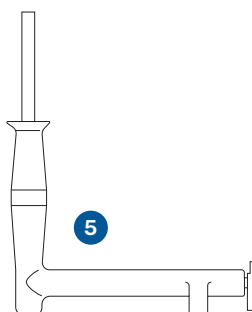
## ROLLING SECURITY CAM / RS CAM



## R CAM ADJUSTMENT TOOL



## RS CAM ADJUSTMENT TOOL

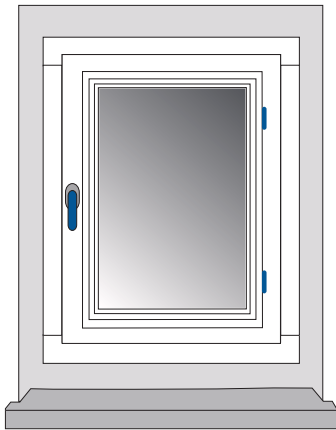


TYPE	DESCRIPTION	SIZE	MATERIAL
1	HEX KEY	4 mm	1095750
2	SCREW DRIVER	PH 3	1080695
3	HEX KEY	2,5 mm	/
4	SPANNER	10 mm	/
5*	MOUNTING HANDLE	/	1134960

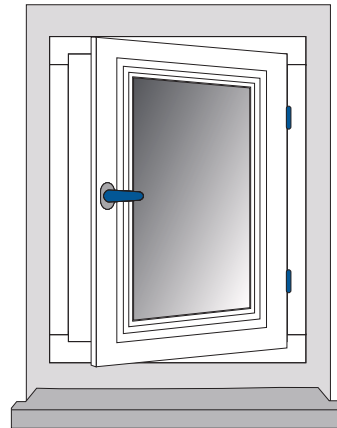
\* FOR SASH STAY BEARING PIN MOUNTING

## Operation of window

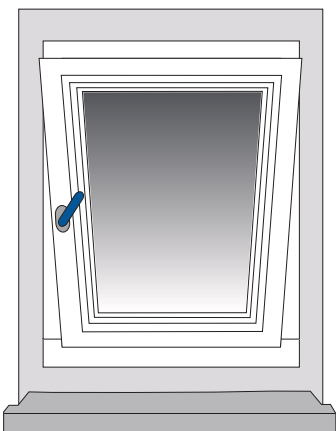
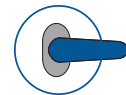
### TURN & TILT - TURN FIRST



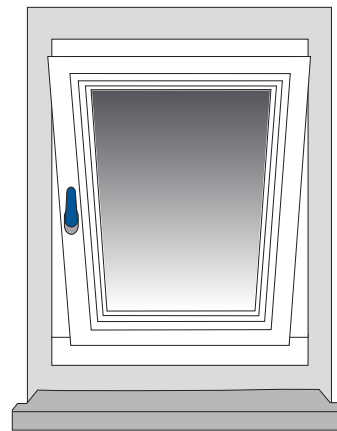
CLOSED POSITION



OPENED POSITION - TURN



NIGHT VENT POSITION



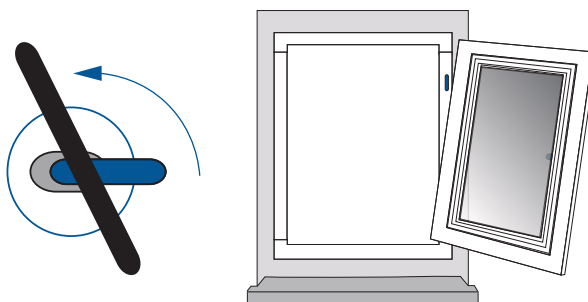
OPENED POSITION - TILT





# OPERATING AND SYSTEM INSTRUCTIONS

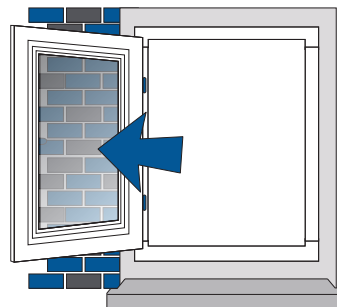
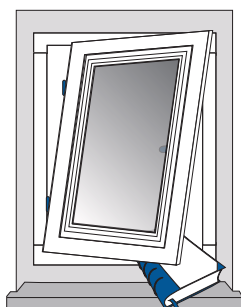
## Warning!



MALPOSITIONING OF THE SASH

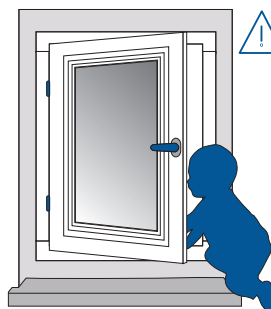
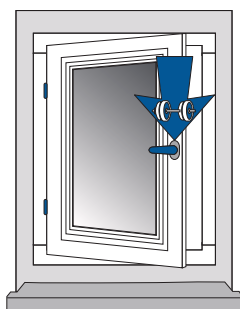
IN ORDER TO PRESERVE THE LONG OPERATIVENESS OF YOUR WINDOW AND TO GUARANTEE SECURITY, IT IS IMPERATIVE TO OBSERVE THE DIRECTIVES LISTED BELOW.

DO NOT PLACE ANY OBJECTS BETWEEN THE SASH AND FRAME.



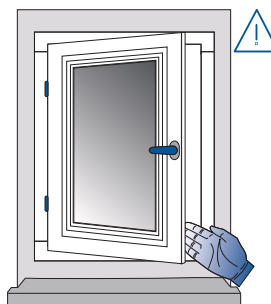
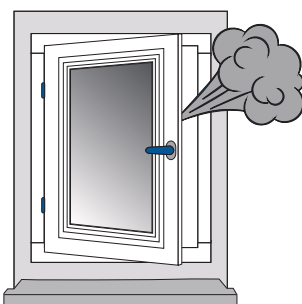
DO NOT ALLOW THE SASH TO HIT OR PRESS UP AGAINST THE WINDOW REVEAL.

THE WINDOW SASH MAY NOT BE BURDENED WITH ADDITIONAL WEIGHT.



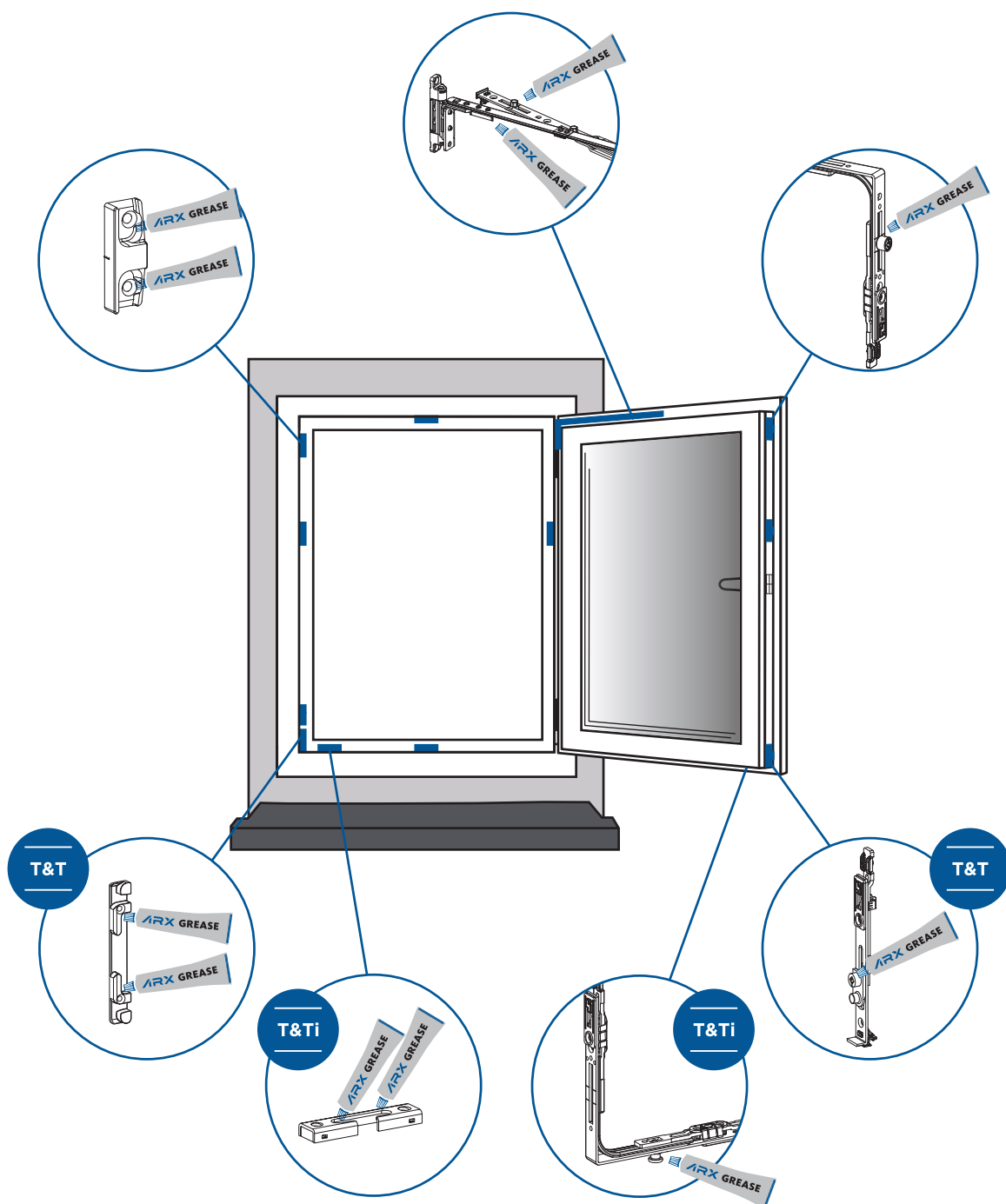
**CAUTION!** WHERE SMALL CHILDREN OR MENTALLY HADICAPPED PERSONS HAVE ACCESS TO THE WINDOW, THE SASH HAS TO BE SAFEGUARDED AGAINST TURNING, FOR EXAMPLE WITH A CHILD-SAFETY LOCK OR KEY-LOCKABLE HANDLES.

DO NOT LEAVE SASHES OPEN IN THE TURN POSITION DURING STRONG WINDS.



**CAUTION!** A SLAMMING SASH CAN LEAD TO INJURIES. WHILE CLOSING, DO NOT GRASP BETWEEN THE SASH AND FRAME.

# MAINTENANCE RECOMMENDATIONS



Regular greasing and oiling of operation-relevant components in the sash and frame is recommended at least once a year. In case of frequent use as in schools, hotels the oiling is recommended once in six months.

Acid free and non-resinous grease and/or oil from a specialized dealer must be used.



DESCRIPTION	MATERIAL
ARX - HIGH QUALITY HARDWARE GREASE	1055144

**ARX**  
The Hardware.



## ARX handles

Handles for windows  
Detailed information

# HANDLES

---

The program of ARX Handles for windows is divided into three sections:

- Standard,
- Secustic – safety handle system: this program is distinguished by higher anti-burglary safety,
- Secustic with a lock: additional security against unauthorized opening of windows.

ARX Handles for windows are suitable for installation into different thickness of the profiles. Accordingly, three spindle sizes are used:

- 32 mm,
- 37 mm,
- 42 mm.

With ARX Handles set for balcony doors, a uniform appearance of the building hardware will be provided:

- set handle / handle,
- set handle / handle for balcony door with roller shutters.

Set for balcony doors are used for profile thickness of 68-78 mm. For thicker profiles, it's necessary to use longer screws for fixing the handles.

## Certificate of Quality



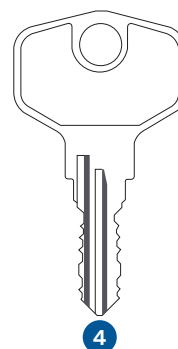
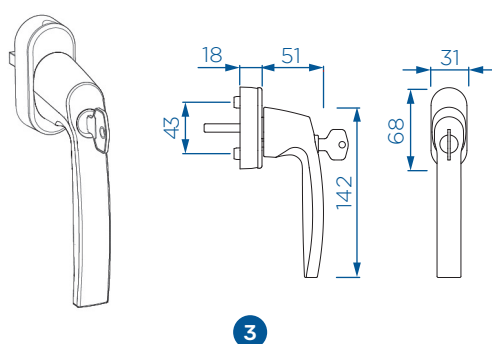
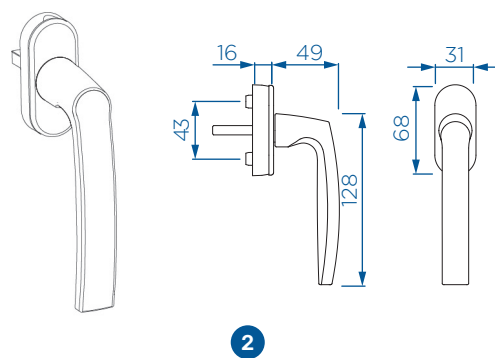
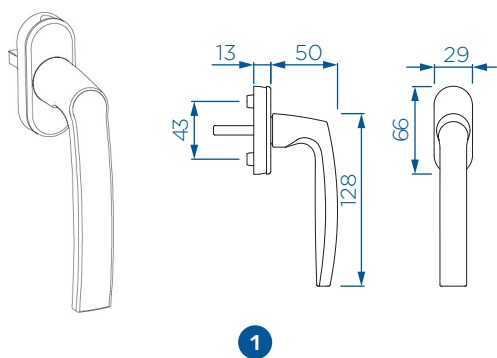
ARX handles are made of quality material (aluminium) and protected by persistent surface protection of powder coating in different colors. Quality materials, modern manufacturing processes and product testing have led ARX handles to have a long lifetime and a 10 year warranty.



ARX handles have a quality certificate, the German Quality Assurance Institute. We are convinced that our products and services will continue to be a good guarantee for our future long-standing partnership and we look forward to further cooperation with you.

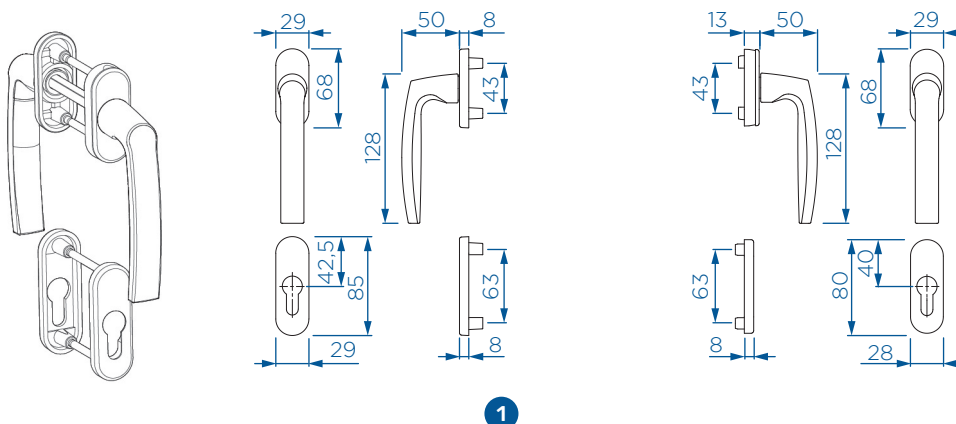
# HANDLES

## Window handles

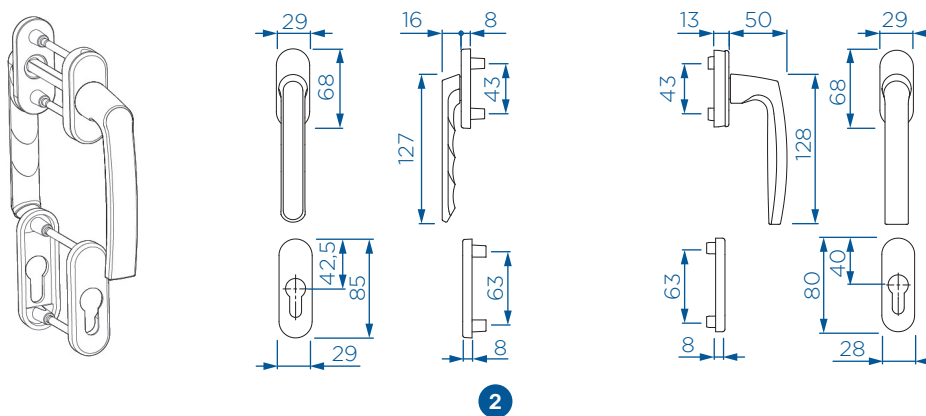


TYPE	DESCRIPTION	L	COLOR	PACK	MATERIAL
1	STANDARD HANDLE	32	F4 - dark bronze	20	1053207
		37	F1 - silver	20	1053212
		37	F4 - dark bronze	20	1053213
		37	F9 - titan	20	1053214
		37	RAL 9010 - white	20	1053215
		37	RAL 8707 - brown	20	1053216
		42	F1 - silver	20	1100839
		42	RAL 9010 - white	20	1058068
		42	RAL 8707 - brown	20	1058069
2	SECUSTIC HANDLE	37	F1 - silver	10	1053222
		37	F4 - dark bronze	10	1053223
		37	F9 - titan	10	1053224
		37	RAL 9010 - white	10	1053225
		37	RAL 8707 - brown	10	1053226
3	SECUSTIC HANDLE WITH SAFETY LOCK	37	F1 - silver	10	1053232
		37	F4 - dark bronze	10	1053235
		37	F9 - titan	10	1053236
		37	RAL 9010 - white	10	1053237
4	SPARE KEY FOR HANDLE	37	RAL 8707 - brown	10	1053238
		/	/	1	1119964

## Balcony door handles



1



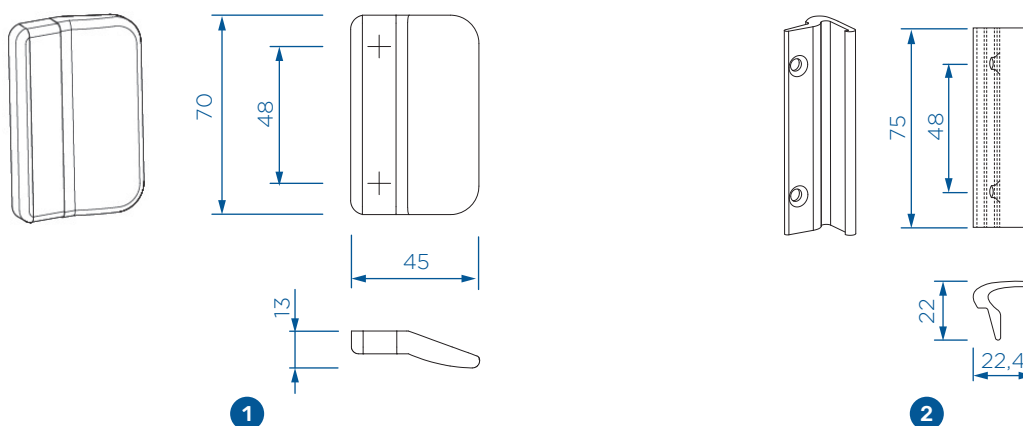
2



TYPE	DESCRIPTION	COLOR	PACK	MATERIAL
1	BALCONY DOOR HANDLE	F1 - silver	10	1053267
		F4 - dark bronze	10	1053268
		F9 - titan	10	1053269
		RAL 9010 - white	10	1053270
2	BALCONY DOOR HANDLE - ROLLER SHUTTERS	F1 - silver	10	1053281
		F4 - dark bronze	10	1053282
		F9 - titan	10	1053283
		RAL 9010 - white	10	1053284

# HANDLES

## Balcony door handles - basic



TYPE	DESCRIPTION	COLOR	PACK	MATERIAL
1	PVC material	RAL 8016 - brown	1	1053291
		RAL 9016 - white	1	1120683
		RAL 7016 - anthracite grey	1	1120684
2	ALU material	RAL 8019 - grey brown	1	1118689
		RAL 9016 - white	1	1117164
		RAL 7016 - anthracite grey	1	1117165

## Rosette



TYPE	DESCRIPTION	COLOR	PACK	MATERIAL
1	FOR REMOVABLE HANDLE - PVC material	RAL 9016 - white	1	1053292
2	OVAL ROSETTE - ZAMAK material	RAL 8019 - grey brown	1	1081621
		RAL 9016 - white	1	1085631









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Slovenia

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