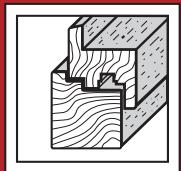




The Perfect Move



ARX spin

High-quality, durable and simple
Hardware for TIMBER profiles

Hardware **ARXspin** for TIMBER profiles
Catalogue of products 2020

Photography by:
Kovinoplastika Lož d.o.o.

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Manufacturer



KOVINOPLASTIKA LOŽ



Kovinoplastika Lož d.o.o. is an international company with a longstanding tradition; its aim is to meet the customers' demand for functional quality products. We are organized as a limited liability company with three profit centers and several own sales network companies in Europe and the world.

The operations which are performed in accordance with the international certificates obtained, our knowledge and modern technologies, result in a successful performance in all our core product lines.

We are developing business excellence and making investments in the development in all the strategic areas. Our products and services are marketed under trademarks which are managed by ourselves and with the help of our partners.

Besides its distinctive quality, the building hardware of Kovinoplastika Lož has an excellent quality-to-price ratio, providing Kovinoplastika Lož with a fast and effective strategy of winning market positions both in the European Union and other European countries.

The ARX building hardware made by Kovinoplastika Lož - turn & tilt hardware for windows is the most distinguished. Is available on selected international markets, where Kovinoplastika Lož markets its products and effectively manages them with its own subsidiaries, whereas the others are managed by maintaining long-lasting and successful partnerships with local companies.

It must be pointed out that Kovinoplastika Lož was the first company in the world, which developed and patented the system of multi-point door locks, operating on the lever principle.

Besides managing production development and marketing all the programmes of building hardware, Kovinoplastika Lož ranks successfully among the top kitchen sink suppliers and gastronom dishes for professional kitchens under our own trademark **ALVEUS**.

Compatibility of components to ensure reliability of operation



The ARX building hardware is new hardware for windows, balcony doors and door locks, being a product of our own development. We are an European hardware manufacturer from Slovenia, with extensive experience in the field of development, production and marketing of the most complex hardware for windows and doors.

The ARX building hardware is fully reliable and adjusted to hard climate; it combines the following features:

Innovation of functional solutions

- High-quality material
- High quality production and installation of individual hardware sets by using highly automated production
- Hardware is easy to maintain, providing a simple and environmentally friendly degradation
- A wide range of use
- Long-term operation and simple installation
- Offers the possibility of high level of automation assembly hardware on the window sash and frame
- Proper surface protection ARXCoat, providing good anti-corrosion durability and a trendy silver appearance, all due to the hot-dip galvanizing process

With a thoroughly made - out design, the ARX building hardware will add a new value to your windows and balcony doors.

Manufacturer's standards and certificates

In January 1994, Kovinoplastika Lož acquired the ISO 9001 compliance certification. After that in 2002, the company was successfully recertified and acquired the ISO 9001:2000.

In 2009, Kovinoplastika Lož acquired an important certificate - ISO/TS 16949, proving appropriate compliance certification for implementing appropriate environmental policy.

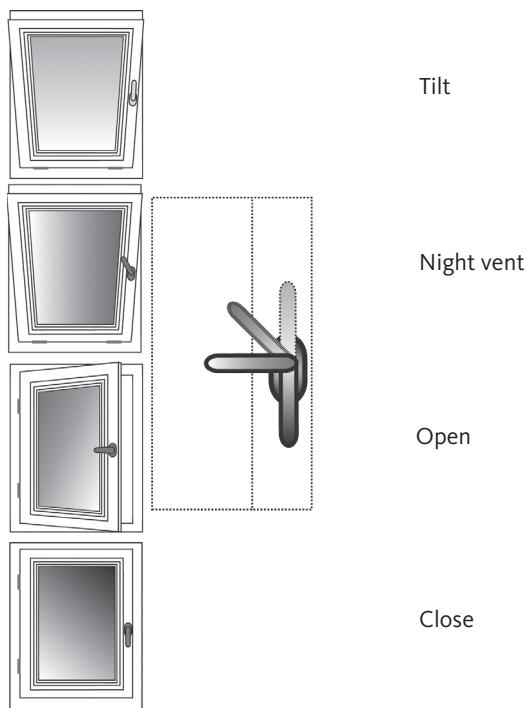
Kovinoplastika Lož was the first big industrial company in Slovenia to gain the ISO 14001 compliance certification for implementing appropriate environmental policy.

Based on successfully finished tests has Kovinoplastika Lož d.o.o. in November 2014 received also certificate about accordance of building fittings ARX spin with regulations in EU.



Product warranty and liability - turn only, turn & tilt hardware

Position of sash and lever



According to the instructions of the Quality Association for Locks and Hardware (Gütegemeinschaft Schlosser 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.

1. Product information and stipulated application

1.1 Quality Assurance Association for Locks and Hardware
(Gütegemeinschaft Schlosser 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 or steel, 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.

1.3 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.

1.4 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.

1.5 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&slide hardware meet 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.

Product warranty and liability - turn only, turn & tilt hardware

2. Misuse of the product

Misuse of the turn&tilt and slide 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).

3. Product warranty

Kovinoplastika Lož is one of the leading manufacturers of building hardware in the European Union; the quality of the company's product is based on a 60-year tradition in development, production and ensuring quality according to the acquired ISO 9001: 2000 certificate.

We also declare that for the period of 10 years, all the spare parts of the ARX building hardware can be repaired or replaced by the experts, provided that the sash and the window frame or balcony doors have not been damaged. A 10-year period of providing spare parts or equivalent replacement parts starts with the beginning of eventual termination of the ARX building hardware production. Hardware servicing, replacement and repair services, repair time and travel expenses, arising from ensuring the above mentioned services are payable according to the price list of services, provided by Kovinoplastika Lož d.o.o. The hardware structure may only consist of the hardware elements from the ARX building hardware programme. In case of inappropriately performed hardware installation and/or inappropriate use of non-original additional parts, which have not been confirmed by the manufacturer, the latter assumes no responsibility. In order to fixate the hardware professionally, »Implementation regulations for the fixing of supporting hinge-sided hardware components« must be followed.

3.1 Product warranty – exclusion of liability

For functional problems or hardware damage and therefore corresponding trouble of the windows or balcony doors equipped with such hardware, being the subject of insufficient tender or failing to follow the installation rules or application diagram, the hardware manufacturer is not to be held responsible.

Warranty is applicable only to original parts of the ARX building hardware.

4. Product characteristics – manufacturer's instructions for use

4.1 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.

4.2 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.

4.3 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.

4.4 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.

Product warranty and liability - turn only, turn & tilt hardware

5. 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. The use of the ARX grease is highly recommended,
- only the cleaning and maintenance agents, which do not reduce the anti-corrosion hardware protection, may be used.

Hardware a – particularly in the vicinity of the pivot rest and the scissor-stay, as well as replacement parts and the unhinging & 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.

5.1 Maintaining the quality of surface treatment

In normal climate, the hot-dip 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.

6. 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 or tilt only hardware systems for windows and balcony doors made of PVC should be observed. In case of non-compliance the manufacturer is exempt from liability.

High-quality, durable and simple

ARX Spin is a system of turn&tilt hardware fittings. Its technology enables effortless turning and tilting of window sashes with a single handle operation. ARX Spin hardware can be operated very conveniently and is also available in a high-security version. The system can be fitted to a wide range of window sizes and allows for simple integration of components during fabrication process.

The ARX spin turn and tilt building hardware is fully reliable and adjusted to hard climate; it combines the following features:



ARXCoat – High quality surface protection

ARXCoat 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 without any maintenance trouble.

How have we accomplished this? Through a special technological process that consists of electroplated zinc coating and low-temperature thick-layer passivation, followed by application of organic sealant to increase the anti-corrosion properties.



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 opening from 140 mm to 80 mm.



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 (due to their mushroom shape). Their height adjusts automatically to fit the air-gap between sash and frame. The compression can be regulated by $\pm 0.8\text{mm}$ – with allen key (size 2.5) or with spanner (size 10). The rolling cam enables smoother and easier closing operation. RS-Cams are optional on all ARX Spin sash components. They can be used in combination with both security strikers or standard strikers (if used with standard strikers, they don't provide higher security).



Night vent

Night Vent is provided to allow 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. – SEE PAGE 88.

High-quality, durable and simple

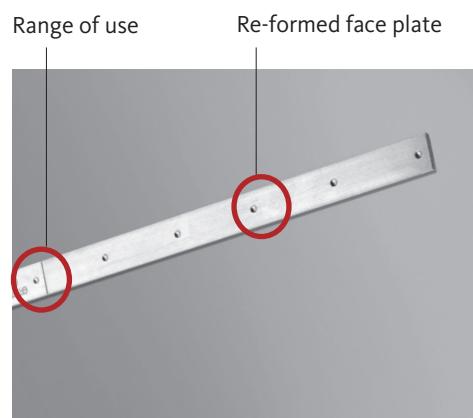
A wide range of products

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.



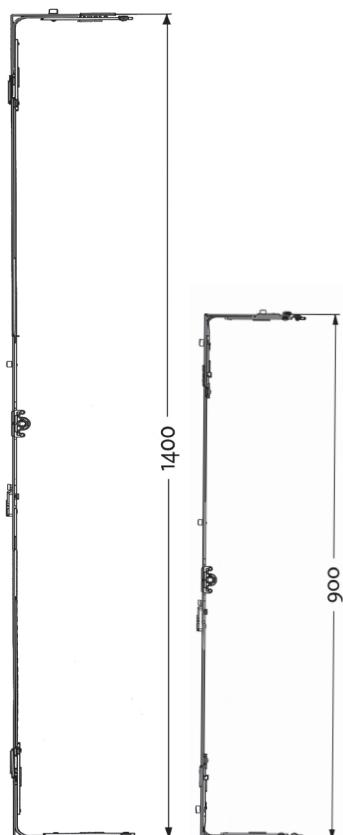
Uniform length of redesigned espagnolettes

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 espagnolettes can be cropped within the marked cut-off area.



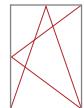
Reduced friction between driving rod and faceplate

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



The explanation of symbols, diagrams and tables

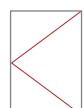
In the part describing the ARX Spin, different symbols, diagrams and tables are used in order to provide a clear picture and demonstration of the hardware application. The meanings are as follows:



Turn & Tilt sash

L (mm)

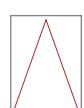
Material Length



Turn only sash

MS (mm)

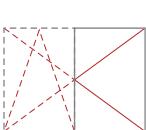
Mishandling device position



Tilt only sash

OHG

Opposing hardware groove



Turn and tilt / turn only sash

BS

Back set



Locking **R** cam position



Sash weight max. 100 kg



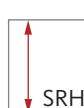
Locking **RS** cam position



Application range:
Sash rebate width 250 - 1400 mm
Sash rebate height 320 - 2400 mm



Number of strikers



Sash rebate height



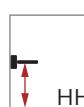
Number of screws



Sash rebate width



Locking cam **R**



Handle height



Locking cam **RS**

NV - night vent

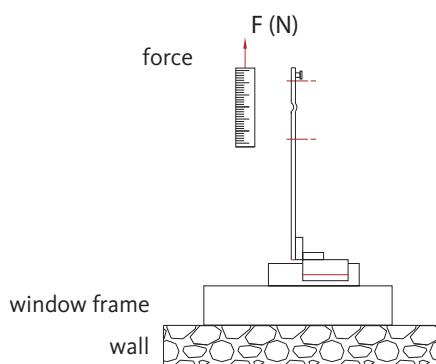


Warning

Regulation of product warranty

In order to fix hardware components, silver galvanized, steel construction screws of 3,5/4,0 x.... are used. 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.

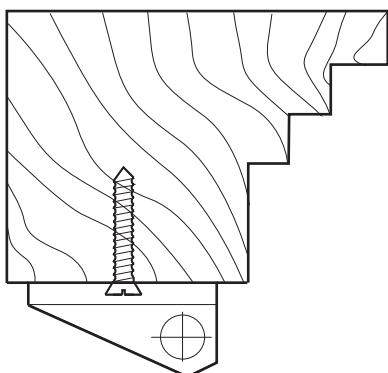
Sash weight (Kg)	F (N)
60	1650
70	1900
80	2200
90	2450
100	2710
110	3000
120	3250
130	3500
140	3900
150	4200
160	4400
170	4710
180	5000
190	5300
200	5500



When fixing safety relevant bearing hardware components (scissor 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 stated values refer to the stay bearing. These are also valid for the pivot rest if the fixing is carried out in the same manner as with the stay bearing.

Wood profile



Gaskets with acetic 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.

Use of related hardware types

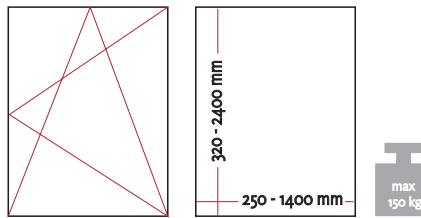
Different options within the individual hardware system (e.g. tilt hardware) must be considered according to the product information, purpose, misuse, product characteristics, maintenance and information and instructions, in regard to the characteristics of the hardware assembly.

TURN & TILT Hardware

Fixed & Centered / variable Handle Height - Basic

1 T&T ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
320 - 460 ³⁾	120	320	1083081
461 - 600	170	460	1083082
601 - 800	263	660	1083083
801 - 1000	413	860	1083084
801 - 1000	413	860	1 R 1083085
1001 - 1200	513	1060	1 R 1083086
1201 - 1400	563	1260	1 R 1083087
1401 - 1600	563	1460	1 R 1083088
1601 - 1800	563	1660	1 R 1083089
1601 - 1800	1000	1660	1 R 1083090
1801 - 2000	1000	1860	2 R 1083091
2001 - 2200	1000	2060	2 R 1083092
2201 - 2400	1000	2260	2 R 1083093



2 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
420 - 620 ³⁾	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

2a) TILT LOCK BOLT SRH < 1000 mm	1102388
TILT LOCK BOLT SRH > 1000 mm	1102391

3 CORNER DRIVE	1 R	1103158
CORNER DRIVE	2 R ⁴⁾	1103159
CORNER DRIVE	1 R + NV ^{1) 4)} R	1103160
CORNER DRIVE	1 R + NV ^{1) 4)} L	1103165

4 SHORT CORNER DRIVE	1 R	1103162
SHORT CORNER DRIVE w. SHOOTBOLT ⁴⁾		1103161

5 SASH STAY GUIDE

Sash rebate width	Type/Lenght	Material Nr.
250 - 410 ²⁾	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 - 1410	500 - 1270	1 R 1083042

6 STAY ARM SYSTEM 12/18-9

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131560
250 - 410	150	R	1131561
411 - 610	250	L	1083002
411 - 610	250	R	1083003
611 - 810	350	L	1083004
611 - 810	350	R	1083005
811 - 1400	500	L	1083006
811 - 1400	500	R	1083007

6 STAY ARM SYSTEM 12/20-9

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131556
250 - 410	150	R	1131557
411 - 610	250	L	1094045
411 - 610	250	R	1094046
611 - 810	350	L	1094047
611 - 810	350	R	1094048
811 - 1400	500	L	1094049
811 - 1400	500	R	1094050

¹⁾ NV = night vent

²⁾ SRW = 250 - 340; with short corner drive

³⁾ Mishandling device not available

⁴⁾ Without schema

6 STAY ARM

SYSTEM 12/18-13

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131562
250 - 410	150	R	1131563
411 - 610	250	L	1096075
411 - 610	250	R	1096076
611 - 810	350	L	1096077
611 - 810	350	R	1096078
811 - 1400	500	L	1096079
811 - 1400	500	R	1096080

6 STAY ARM

SYSTEM 12/20-13

Sash rebate width	Type/Lenght	Material Nr.
250 - 410	150	L 1131558
250 - 410	150	R 1131559
411 - 610	250	L 1096081
411 - 610	250	R 1096082
611 - 810	350	L 1096083
611 - 810	350	R 1096084
811 - 1400	500	L 1096085
811 - 1400	500	R 1096086

6 COVER CAP STAY ARM

SEE PAGE 57

7 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)	L&R	1107263
SYSTEM 12/20-9 (13)	L&R	1107264

7a COVER CAP STAY BEARING

SEE PAGE 57

8 CENTRE LOCK

Sash rebate width	Sash rebate height	Type/Lenght	Material Nr.
801 - 1200	1001 - 1200	500/550	2 R 1083058
1201 - 1400	1201 - 1600	800/850	2 R 1083059
/	1601 - 2200	1500/1550	3 R 1083060
/	2201 - 2400	1950/2000	4 R 1083064

9 CORNER HINGE

SYSTEM 12/18-9	L	1083245
	R	1083246
SYSTEM 12/20-9	L	1093883
	R	1093884
SYSTEM 12/18-13	L	1096619
	R	1096621
SYSTEM 12/20-13	L	1096622
	R	1096623

9a COVER CAP CORNER HINGE

SEE PAGE 57

10 CORNER PIVOT REST

SYSTEM 12/18-9 (13)	L	1083248
	R	1083249
SYSTEM 12/20-9 (13)	L	1093886
	R	1093887

10a COVER CAP CORNER PIVOT REST

SEE PAGE 57

11 T&T STRIKER

SEE PAGE 58

12 STRIKER

SEE PAGE 58

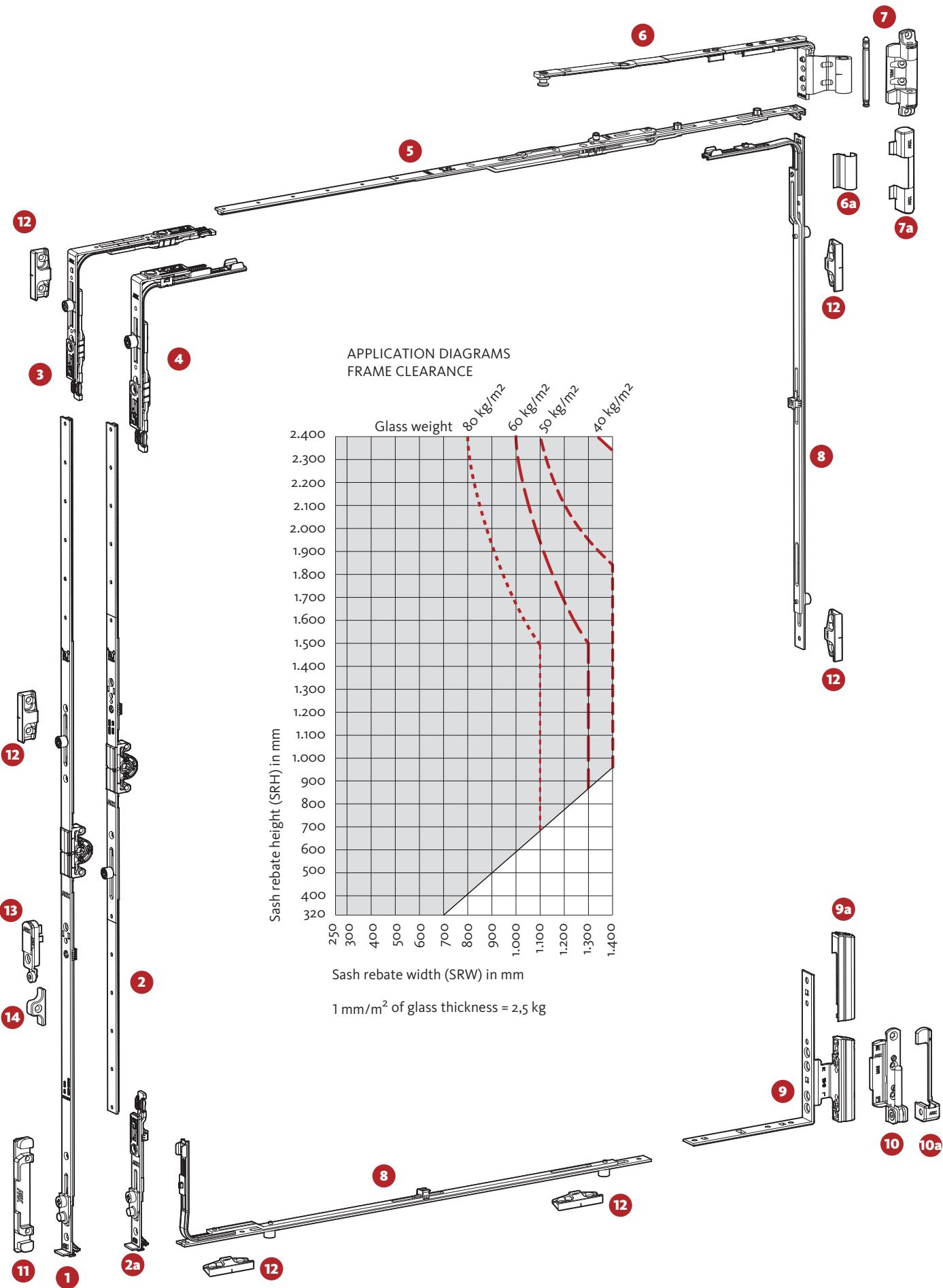
13 MISHANDLING DEVICE - sash

1093907

14 MISHANDLING DEVICE - frame

SEE PAGE 58

Parts review

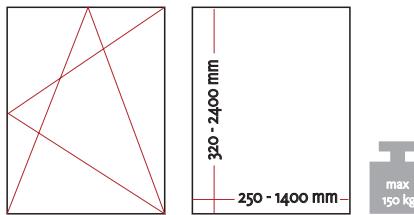


TURN & TILT Hardware

Fixed & Centered / variable Handle Height - Standard

1 T&Ti ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
320 - 460 ^{3) 4)}	120	320	1105430
461 - 600	170	460	1083094
601 - 800	263	660	1083095
801 - 1000	413	860	1 R 1083096
1001 - 1200	513	1060	1 R 1083097
1201 - 1400	563	1260	1 R 1083098
1401 - 1600	563	1460	1 R 1083099
1601 - 1800	563	1660	1 R 1083100
1801 - 2000	1000	1860	2 R 1083101
2001 - 2200	1000	2060	2 R 1083102
2201 - 2400	1000	2260	2 R 1083103



1a T&T CORNER DRIVE 140

1 RS 1100988

2 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
420 - 620 ⁴⁾	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

CORNER DRIVE	1 R	1103158
CORNER DRIVE	2 R ⁵⁾	1103159
CORNER DRIVE	1 R + NV ^{1) 5)}	R 1103160
CORNER DRIVE	1 R + NV ^{1) 5)}	L 1103165

CORNER DRIVE	1 RS	1100983
--------------	------	---------

SHORT CORNER DRIVE	1 R	1103162
SHORT CORNER DRIVE w. SHOOTBOLT ⁵⁾		1103161

5 SASH STAY GUIDE

Sash rebate width	Type/Lenght	Material Nr.
250 - 410 ²⁾	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 - 1410	500 - 1270	1 R 1083042

6 STAY ARM SYSTEM 12/18-9

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131560
250 - 410	150	R	1131561
411 - 610	250	L	1083002
411 - 610	250	R	1083003
611 - 810	350	L	1083004
611 - 810	350	R	1083005
811 - 1400	500	L	1083006
811 - 1400	500	R	1083007

6 STAY ARM SYSTEM 12/20-9

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131556
250 - 410	150	R	1131557
411 - 610	250	L	1094045
411 - 610	250	R	1094046
611 - 810	350	L	1094047
611 - 810	350	R	1094048
811 - 1400	500	L	1094049
811 - 1400	500	R	1094050

6 STAY ARM

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131562
250 - 410	150	R	1131563
411 - 610	250	L	1096075
411 - 610	250	R	1096076
611 - 810	350	L	1096077
611 - 810	350	R	1096078
811 - 1400	500	L	1096079
811 - 1400	500	R	1096080

SYSTEM 12/18-13

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131558
250 - 410	150	R	1131559
411 - 610	250	L	1096081
411 - 610	250	R	1096082
611 - 810	350	L	1096083
611 - 810	350	R	1096084
811 - 1400	500	L	1096085
811 - 1400	500	R	1096086

6a COVER CAP STAY ARM

SEE PAGE 57

7 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)	L&R	1107263
SYSTEM 12/20-9 (13)	L&R	1107264

7a COVER CAP STAY BEARING

SEE PAGE 57

8 CENTRE LOCK

Sash rebate height	Type/Lenght	Material Nr.
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

9 CENTRE LOCK

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

10 CORNER HINGE

SYSTEM 12/18-9	L	1083245
SYSTEM 12/20-9	L	1093883
SYSTEM 12/18-13	R	1093884
SYSTEM 12/20-13	L	1096619
SYSTEM 12/20-13	R	1096621

10a COVER CAP CORNER HINGE

SEE PAGE 57

11 CORNER PIVOT REST

SYSTEM 12/18-9 (13)	L	1083248
SYSTEM 12/20-9 (13)	R	1093886

11a COVER CAP CORNER PIVOT REST

SEE PAGE 57

12 STRIKER

SEE PAGE 58

13 T&Ti STRIKER SECURITY

SEE PAGE 58

14 MISHANDLING DEVICE - sash

1093907

15 MISHANDLING DEVICE - frame

SEE PAGE 58

¹⁾ NV = night vent

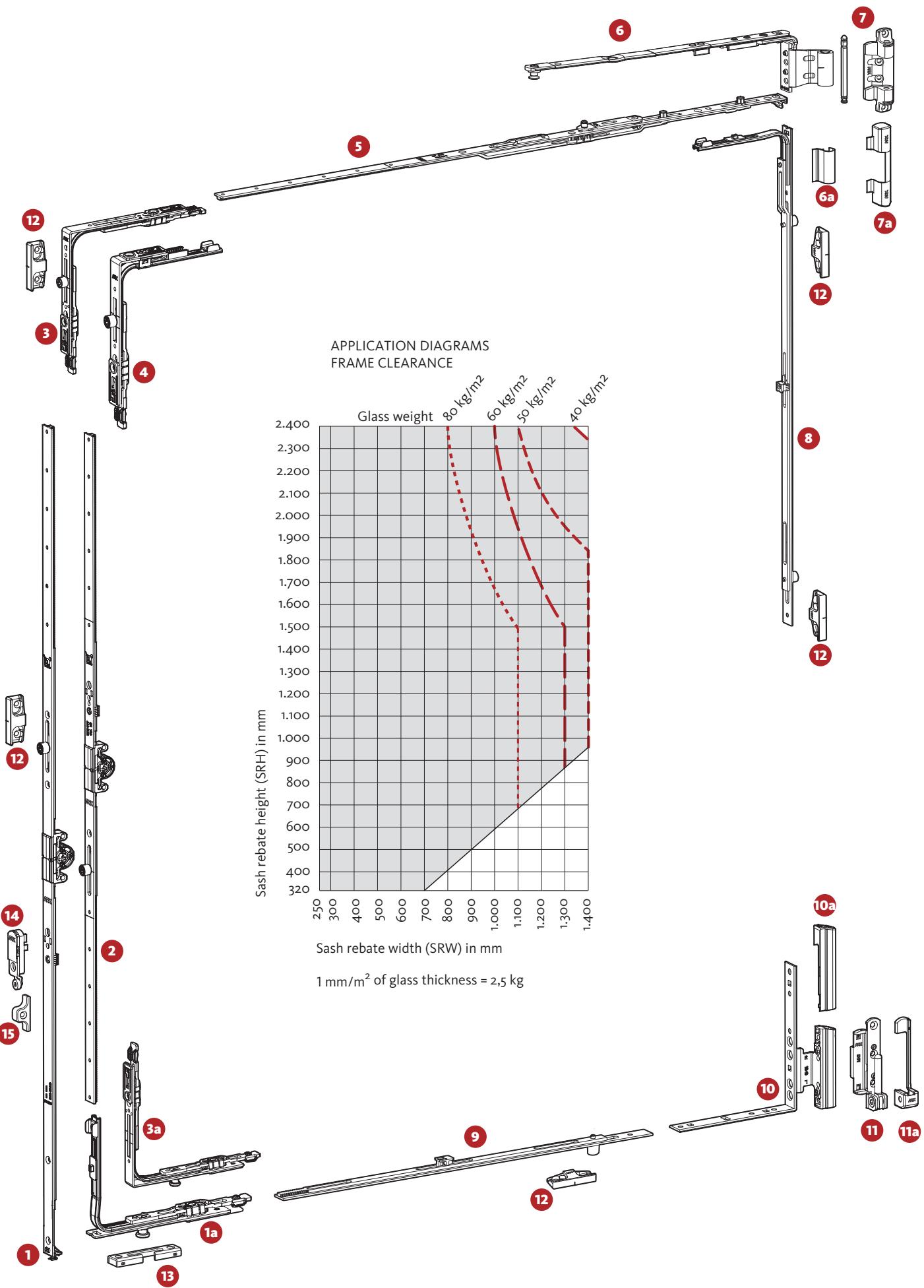
²⁾ SRW = 250 - 340; with short corner drive

³⁾ With integrated T&T corner drive 1RS

⁴⁾ Mishandling device not available

⁵⁾ Without shema

Parts review



TURN & TILT Hardware

Fixed & Centered / variable Handle Height - Security

1 T&Ti ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
320 - 460 ¹⁾²⁾	120	320	1105430
461 - 600	170	460	1083094
601 - 800	263	660	1083095
801 - 1000	413	860	1 R 1083096
1001 - 1200	513	1060	1 R 1083097
1201 - 1400	563	1260	1 R 1083098
1401 - 1600	563	1460	1 R 1083099
1601 - 1800	563	1660	1 R 1083100
1801 - 2000	1000	1860	2 R 1083101
2001 - 2200	1000	2060	2 R 1083102
2201 - 2400	1000	2260	2 R 1083103

1a T&T CORNER DRIVE 140

1 RS 1100988

2 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
420 - 620 ²⁾	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

3 CORNER DRIVE

1 R + 1 RS 1100985

3a SHORT CORNER DRIVE

1 RS 1100986

4 CORNER DRIVE

1 RS 1100983

5 SASH STAY GUIDE

Sash rebate width	Type/Lenght	Material Nr.
250 - 410 ³⁾	150 - 290	1123308
411 - 610	250 - 470	1083038
611 - 810	350 - 670	1083039
811 - 1010	500 - 870	1 R 1100978
1011 - 1210	500 - 1070	1 R 1100980
1211 - 1410	500 - 1270	1 R 1100981

6 STAY ARM

SYSTEM 12/18-9

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131560
250 - 410	150	R	1131561
411 - 610	250	L	1083002
411 - 610	250	R	1083003
611 - 810	350	L	1083004
611 - 810	350	R	1083005
811 - 1400	500	L	1083006
811 - 1400	500	R	1083007

6 STAY ARM

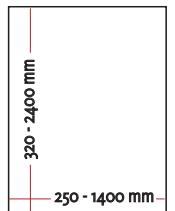
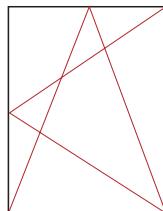
SYSTEM 12/20-9

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131556
250 - 410	150	R	1131557
411 - 610	250	L	1094045
411 - 610	250	R	1094046
611 - 810	350	L	1094047
611 - 810	350	R	1094048
811 - 1400	500	L	1094049
811 - 1400	500	R	1094050

6 STAY ARM

SYSTEM 12/18-13

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131562
250 - 410	150	R	1131563
411 - 610	250	L	1096075
411 - 610	250	R	1096076
611 - 810	350	L	1096077
611 - 810	350	R	1096078
811 - 1400	500	L	1096079
811 - 1400	500	R	1096080



¹⁾ With integrated T&T corner drive 1RS

²⁾ Mishandling device not available

³⁾ SRW = 250 - 340; with short corner drive

6 STAY ARM

SYSTEM 12/20-13

Sash rebate width	Type/Lenght	Pos.	Material Nr.
250 - 410	150	L	1131558
250 - 410	150	R	1131559
411 - 610	250	L	1096081
411 - 610	250	R	1096082
611 - 810	350	L	1096083
611 - 810	350	R	1096084
811 - 1400	500	L	1096085
811 - 1400	500	R	1096086

6a COVER CAP STAY ARM

SEE PAGE 57

7 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)
SYSTEM 12/20-9 (13)

L&R
L&R

1107263
1107264

7a COVER CAP STAY BEARING

SEE PAGE 57

8 CORNER HINGE

SYSTEM 12/18-9	L	1083245
	R	1083246
SYSTEM 12/20-9	L	1093883
	R	1093884
SYSTEM 12/18-13	L	1096619
	R	1096621
SYSTEM 12/20-13	L	1096622
	R	1096623

8a COVER CAP CORNER HINGE

SEE PAGE 57

9 CORNER PIVOT REST

SYSTEM 12/18-9 (13)
SYSTEM 12/20-9 (13)

L
R
L
R

1083248
1083249
1093886
1093887

9a COVER CAP CORNER PIVOT REST

SEE PAGE 57

10 CENTRE LOCK

Sash rebate width	Sash rebate height	Lenght	Material Nr.
601 - 800	/	200	1 RS 1101005
801 - 1000	801 - 1200	400	1 RS 1101006
1001 - 1400	1201 - 1400	600	1 RS 1101012
	/	1401 - 1800	600 + 400 2 RS 1101017+1101006
	/	1801 - 2000	600 + 600 2 RS 1101017+1101012
	/	2001 - 2400	2x 600 + 400 3 RS 2x1101017+1101006

11 T&T CORNER DRIVE 180

1 RS 1100987

12 MISHANDLING DEVICE - sash

1093907

13 MISHANDLING DEVICE - frame

SEE PAGE 58

14 STRIKER

SEE PAGE 58

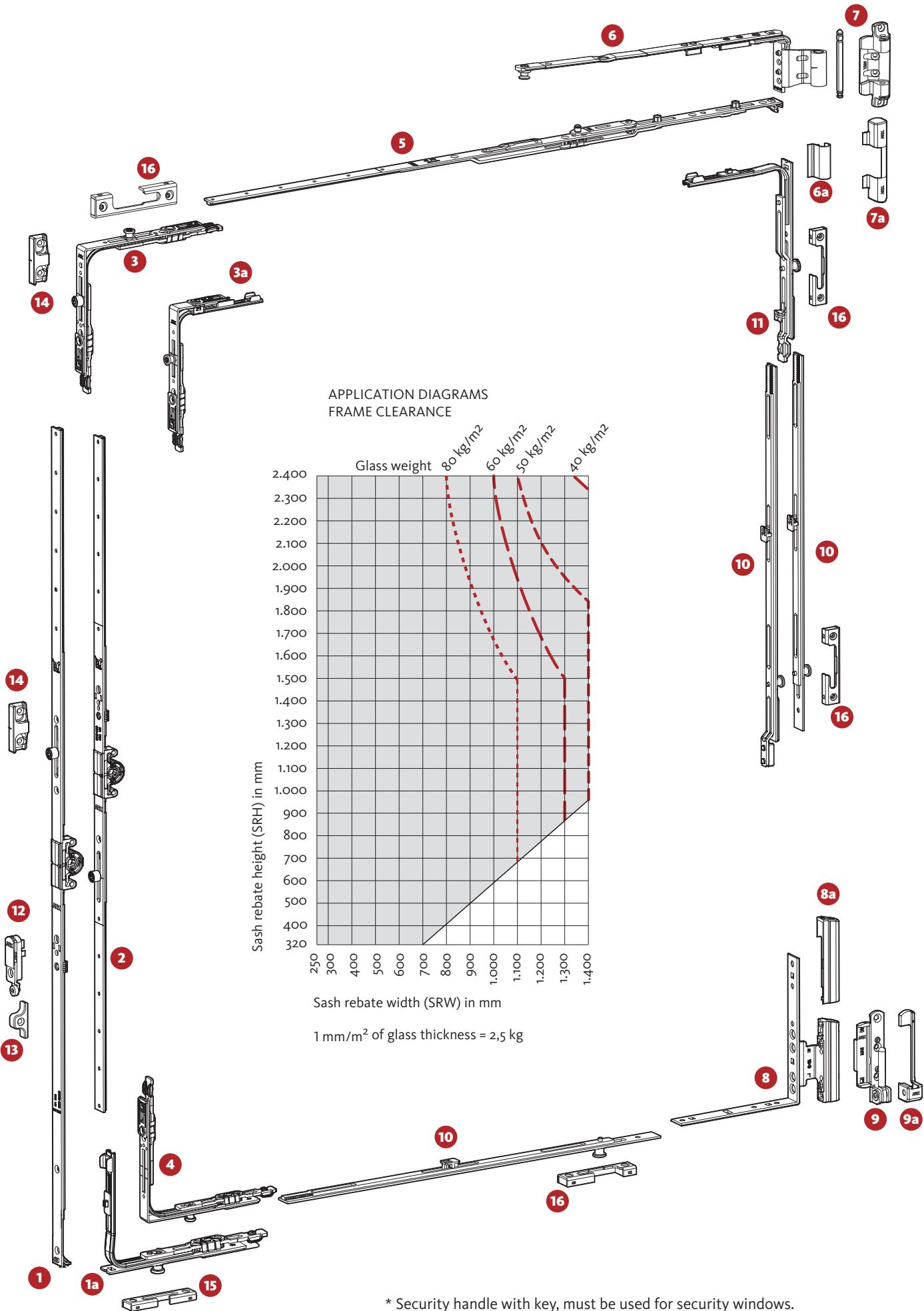
15 T&Ti STRIKER SECURITY

SEE PAGE 58

16 STRIKER SECURITY

SEE PAGE 58

Parts review



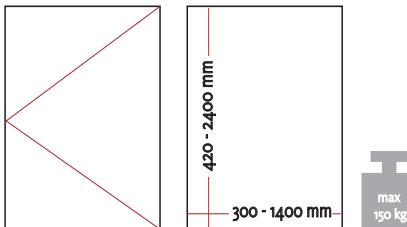
* Security handle with key, must be used for security windows.

TURN Hardware

Centered / variable Handle Height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
420 - 620 ¹⁾	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



max
150 kg

2 ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
180 - 250 ¹⁾	90 - 125	180	1 R 1083163
251 - 500 ¹⁾	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

3 STRIKER

[SEE PAGE 58](#)

4 TILT LOCK BOLT 140

1 R 1102394

5 TILT LOCK BOLT 140/90

1 R 1102395

6 CENTRE LOCK

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

7 REBATE STAY ARM

SYSTEM 12/18-9	L	1093892
	R	1093893
SYSTEM 12/20-9	L	1093894
	R	1093895
SYSTEM 12/18-13	L	1096113
	R	1096114
SYSTEM 12/20-13	L	1096115
	R	1096116

7a COVER CAP STAY ARM

[SEE PAGE 57](#)

8 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)	L&R	1107263
SYSTEM 12/20-9 (13)	L&R	1107264

8a COVER CAP STAY BEARING

[SEE PAGE 57](#)

9 CONCEALED STRIKER CLOSER - sash

1093911

10 CONCEALED STRIKER CLOSER - frame

[SEE PAGE 59](#)

11 CORNER HINGE

SYSTEM 12/18-9	L	1083245
	R	1083246
SYSTEM 12/20-9	L	1093883
	R	1093884
SYSTEM 12/18-13	L	1096619
	R	1096621
SYSTEM 12/20-13	L	1096622
	R	1096623

11a COVER CAP CORNER HINGE

[SEE PAGE 57](#)

12 CORNER PIVOT REST

SYSTEM 12/18-9 (13)	L	1083248
	R	1083249
SYSTEM 12/20-9 (13)	L	1093886
	R	1093887

12a COVER CAP CORNER PIVOT REST

[SEE PAGE 57](#)

13 MISHANDLING DEVICE - sash

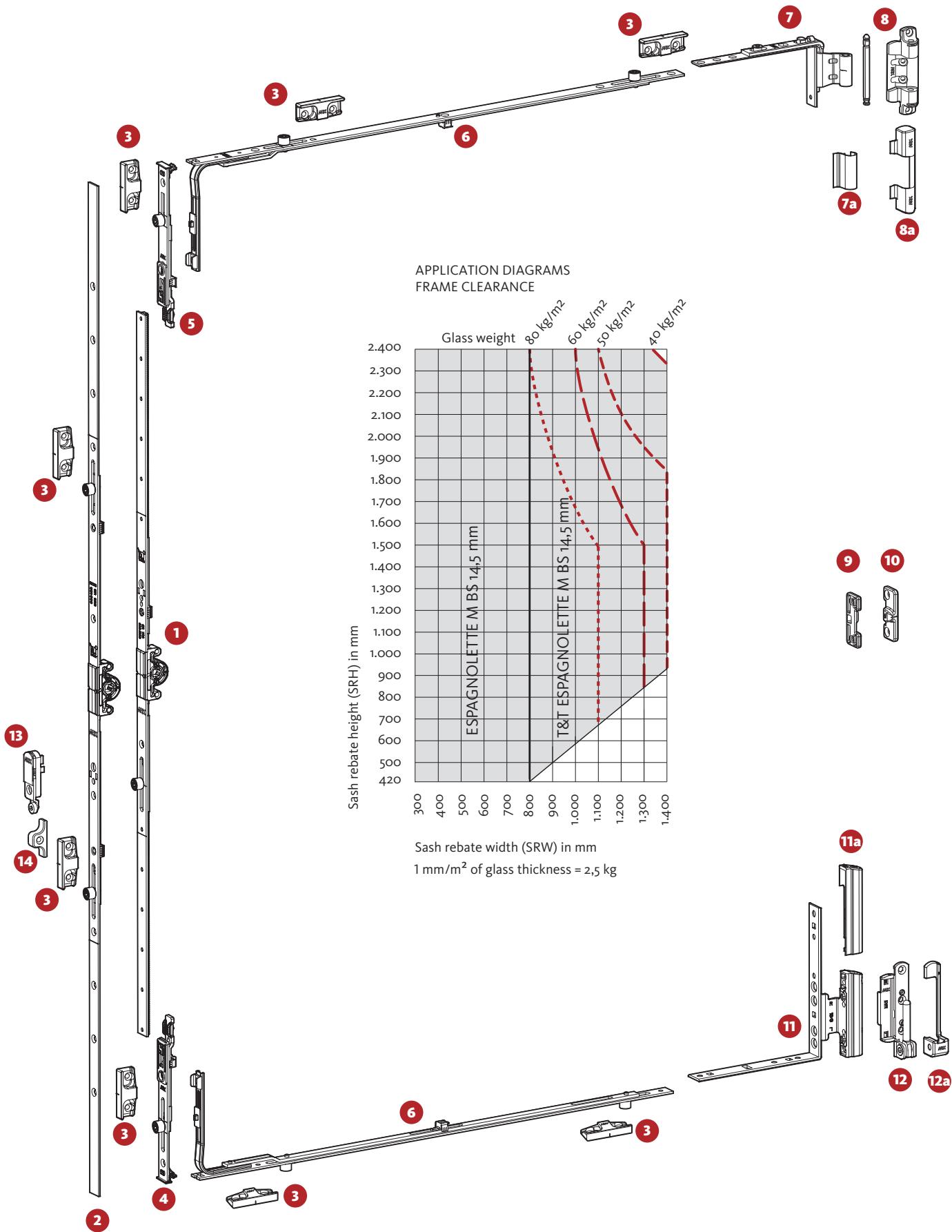
1093907

14 MISHANDLING DEVICE - frame

[SEE PAGE 58](#)

¹⁾ Mishandling device not available

Parts review

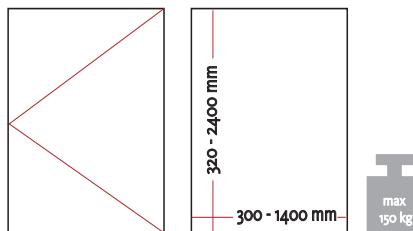


TURN Hardware

Fixed Handle Height

1 T&T ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
320 - 460 ¹⁾	120	320	1083081
461 - 600	170	460	1083082
601 - 800	263	660	1083083
801 - 1000	413	860	1083084
801 - 1000	413	860	1 R 1083085
1001 - 1200	513	1060	1 R 1083086
1201 - 1400	563	1260	1 R 1083087
1401 - 1600	563	1460	1 R 1083088
1601 - 1800	563	1660	1 R 1083089
1601 - 1800	1000	1660	1 R 1083090
1801 - 2000	1000	1860	2 R 1083091
2001 - 2200	1000	2060	2 R 1083092
2201 - 2400	1000	2260	2 R 1083093



2 ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
400 - 500 ¹⁾	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
1801 - 2000	1000	2000	4 R 1083143
2001 - 2200	1000	2200	4 R 1083144
2201 - 2400	1000	2400	4 R 1083145

3 MISHANDLING DEVICE - sash 1093907

4 MISHANDLING DEVICE - frame SEE PAGE 58

5 TILT LOCK BOLT 140/90 1 R 1102395

6 CENTRE LOCK

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

7 REBATE STAY ARM	L	1093892
SYSTEM 12/18-9	R	1093893
SYSTEM 12/20-9	L	1093894
	R	1093895
SYSTEM 12/18-13	L	1096113
	R	1096114
SYSTEM 12/20-13	L	1096115
	R	1096116

7a COVER CAP STAY ARM SEE PAGE 57

8 STAY BEARING WITH PIN
SYSTEM 12/18-9 (13) L&R 1107263
SYSTEM 12/20-9 (13) L&R 1107264

8a COVER CAP STAY BEARING SEE PAGE 57

9 CONCEALED STRIKER CLOSER- sash 1093911

10 CONCEALED STRIKER CLOSER- frame SEE PAGE 59

¹⁾ Mishandling device not available

11 CORNER HINGE

SYSTEM 12/18-9	L	1083245
	R	1083246
SYSTEM 12/20-9	L	1093883
	R	1093884
SYSTEM 12/18-13	L	1096619
	R	1096621
SYSTEM 12/20-13	L	1096622
	R	1096623

11a COVER CAP CORNER HINGE SEE PAGE 57

12 CORNER PIVOT REST

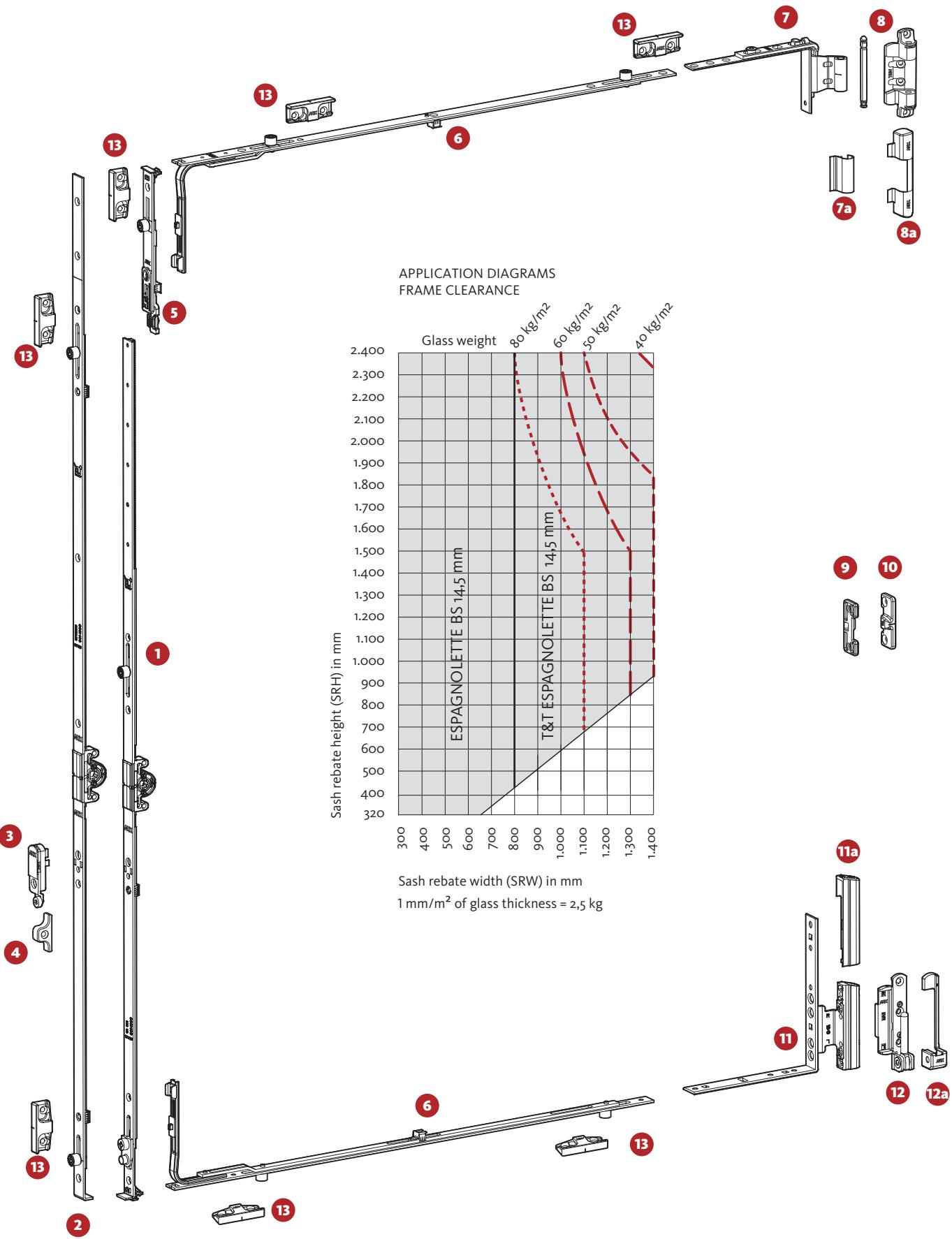
SYSTEM 12/18-9 (13)	L	1083248
	R	1083249

12a COVER CAP CORNER PIVOT REST SEE PAGE 57

13 STRIKER

SEE PAGE 58

Parts review

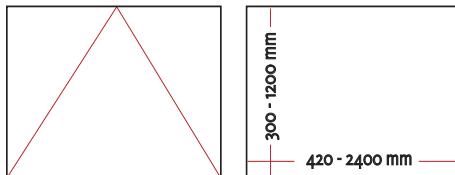


TILT Hardware

Centered / variable Handle Width

1 ESPAGNOLETTE M BS 14,5 mm

Sash rebate width	Handle width	Lenght	Material Nr.
180 - 250	90 - 125	180	1 R 1083163
251 - 500	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 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate width	Handle width	Lenght	Material Nr.
420 - 620	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

3 TILT LOCK BOLT 140

1 R 1102394

4 TILT LOCK BOLT 140/90

1 R 1102395

5 CENTRE LOCK

Sash rebate height	Type/Lenght	Material Nr.
1211 - 1410	500 - 1270	1 R 1083058

- 6** REBATE CENTRE HINGE 12/18-9 adjustable 1093896
- REBATE CENTRE HINGE 12/20-9 adjustable 1093897
- REBATE CENTRE HINGE 12/18-13 adjustable 1096617
- REBATE CENTRE HINGE 12/20-13 adjustable 1096618

6a COVER CAP STAY ARM

[SEE PAGE 57](#)

6b SPACER

1094661

7 STAY BEARING WITH PIN

- SYSTEM 12/18-9 (13) L&R 1107263
- SYSTEM 12/20-9 (13) L&R 1107264

7a COVER CAP STAY BEARING

[SEE PAGE 57](#)

8 STRIKER

[SEE PAGE 58](#)

9 TILT STAY

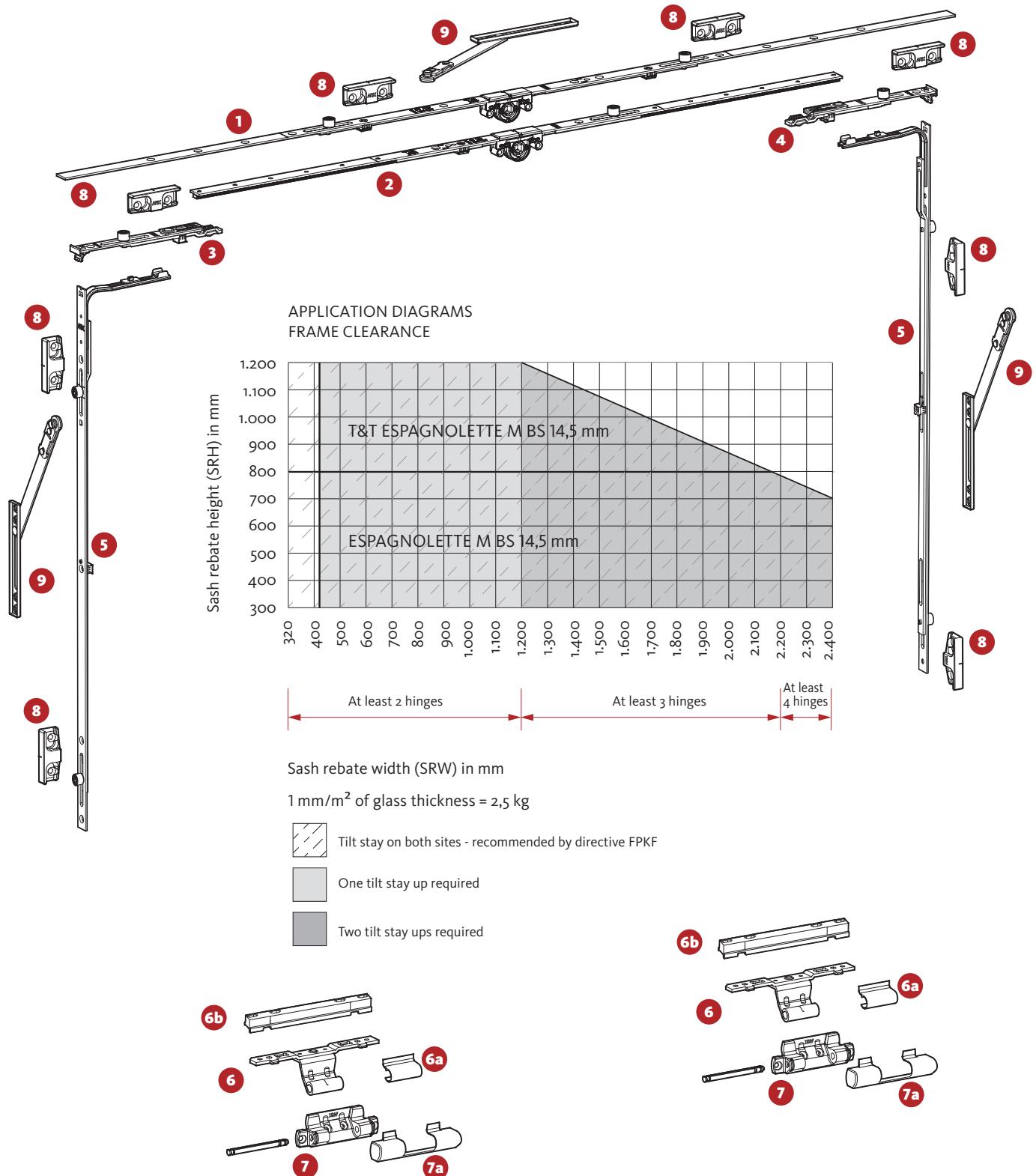
1099152

TILT STAY GROOVE ¹⁾

1099154

¹⁾ Without sheme

Parts review

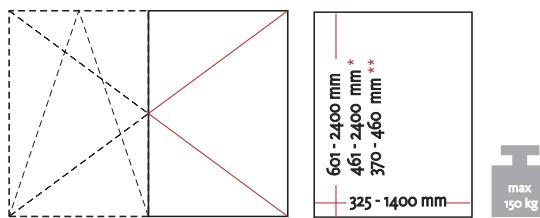


TURN Hardware Second Sash

Fixed & Centered / Variable Handle Height

1 FRENCH WINDOW ESPAGNOLETTE - Fixed handle-height-OHG

Sash rebate height	Handle height	Lenght	Material Nr.
601 - 800 ³⁾	335	660	1083174
801 - 1000	490	860	1 R 1083175
1001 - 1200	335	1060	1 R 1083176
1201 - 1400	335	1260	1 R 1083177
1401 - 1600	335	1460	2 R 1083178
1601 - 1800	335	1660	2 R 1083179
1801 - 2000	640	1860	2 R 1083180
2001 - 2200	640	2060	2 R 1083181
2201 - 2400	640	2260	2 R 1083182



1a T&T SHOOTBOLT ¹⁾ 1083252

1b SHOOTBOLT WITH STRIKER ¹⁾ 1083253

1c SHOOTBOLT WITHOUT STRIKER 1083254

2 FRENCH WINDOW ESPAGNOLETTE M - Centered/Variabile handle-height-OHG ^{2) 4)}

Sash rebate height	Handle height	Lenght	Material Nr.
500 - 680 ³⁾	290-380	400	1098116
600 - 1000 ³⁾	387-586	720	1 R 1098120
800 - 1000 ³⁾	587-686	720	1 R 1098121
900 - 1400	350-550	1120	1 R 1098122
900 - 1400	350-550	1120	2 R 1099308
1401 - 1800 ⁴⁾	350-550	1520	1 R 1098123
1801 - 2000 ⁴⁾	350-550	1720	2 R 1098124
2001 - 2400 ⁴⁾	350-550	2120	2 R 1098125

2a T&T EXTENSION FRENCH ESPAGNOLETTTE M 11 mm 1102621

3 CORNER DRIVE 1 R 1103158

4 STRIKER SEE PAGE 58

5 STRIKER second sash SEE PAGE 59

6 STRIKER OHG 1083207

6a ADDITIONAL STRIKER FOR FR. WIN. ESP. - OHG ⁴⁾ 1100213

7 REBATE STAY ARM

SYSTEM 12/18-9	L	1093892
	R	1093893

SYSTEM 12/20-9	L	1093894
	R	1093895

SYSTEM 12/18-13	L	1096113
	R	1096114

SYSTEM 12/20-13	L	1096115
	R	1096116

7a COVER CAP STAY ARM SEE PAGE 57

8 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)	L&R	1107263
SYSTEM 12/20-9 (13)	L&R	1107264

8a COVER CAP STAY BEARING SEE PAGE 57

9 CONCEALED STRIKER CLOSER - sash 1093911

10 CONCEALED STRIKER CLOSER - frame SEE PAGE 59

* with 1a (T&T Shootbolt) and 1b (Shootbolt with striker)

** with 1a (T&T Shootbolt) and 1c (Shootbolt without striker)

1) 1a, 1b is possible to connect with centre lock **14**

2) Compatible with T&T espagnolette M, Backset 14,5 mm

3) Mishandling device not available

4) French window espagnolette with additional locking cam.
Striker 1100213 can be installed onto french window espagnolette.

11 CORNER HINGE

SYSTEM 12/18-9	L	1083245
	R	1083246
SYSTEM 12/20-9	L	1093883
	R	1093884
SYSTEM 12/18-13	L	1096619
	R	1096621
SYSTEM 12/20-13	L	1096622
	R	1096623

11a COVER CAP CORNER HINGE SEE PAGE 57

12 CORNER PIVOT REST

SYSTEM 12/18-9 (13)	L	1083248
	R	1083249
SYSTEM 12/20-9 (13)	L	1093886
	R	1093887

12a COVER CAP CORNER PIVOT REST SEE PAGE 57

MISHANDLING DEVICE FRAME - OHG	1083293
MISHANDLING DEVICE FRAME - OHG - FOR FRENCH WIN. ESPAGNOLETE	1083295

14 CENTRE LOCK

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

15 CENTRE LOCK

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

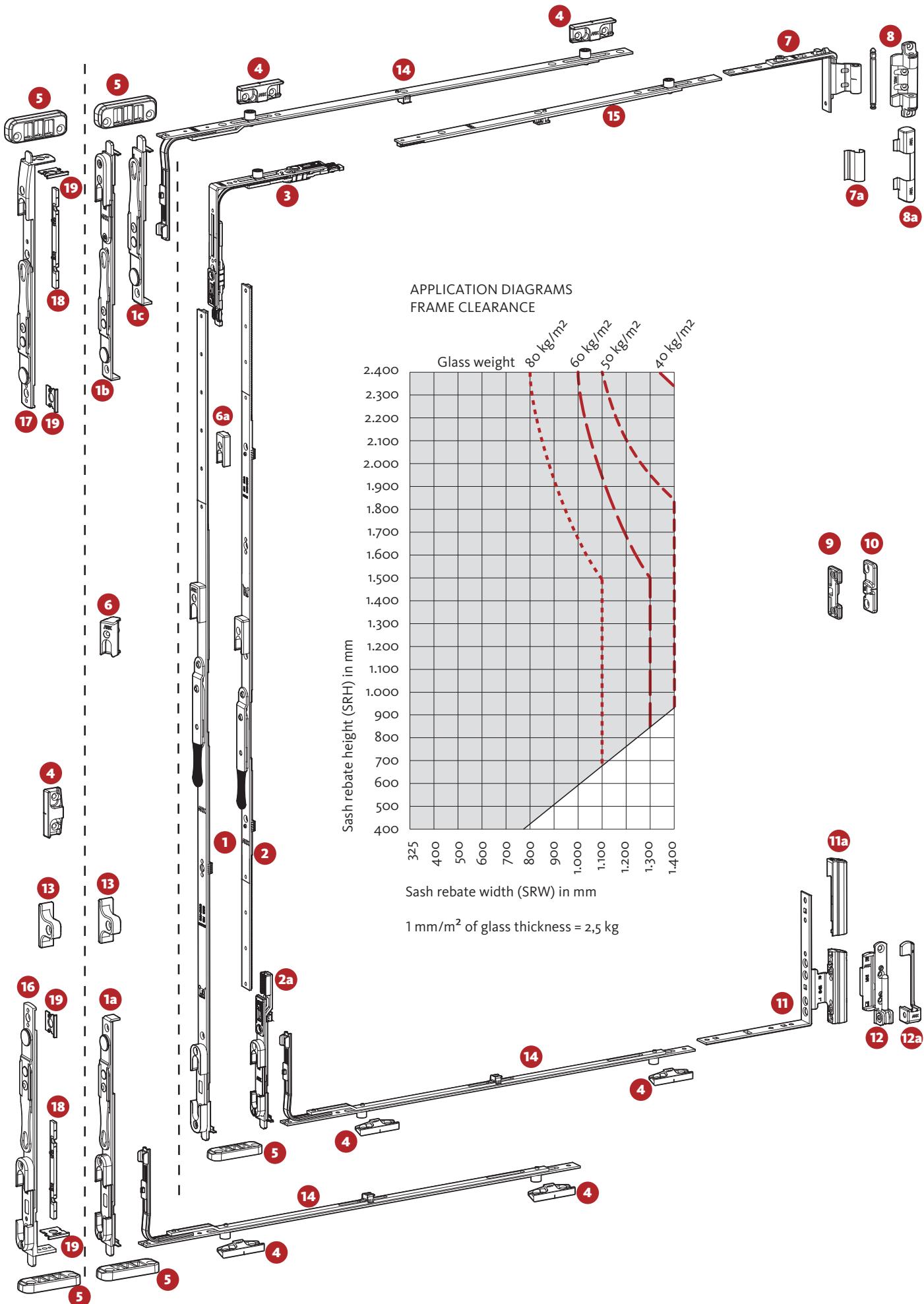
16 T&T SHOOTBOLT - OHG - 18 mm 1093889

17 SHOOTBOLT - 18 mm 1093890

18 PACKER - 7/8 1093891

19 PACKER - 20 mm 1101491

Parts review

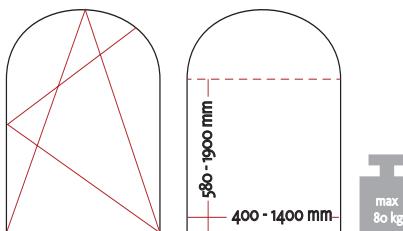


TURN & TILT Hardware - ARCHED

Centered / Variable Handle Height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
580 - 620 ¹⁾	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 CORNER DRIVE

1 RS 1100983

3 CENTRE LOCK ARCHED WINDOW

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

4 SET ARCHED / PITCHED WINDOW ²⁾

SYSTEM 12/18-9	18 mm	L&R	1 R 1104592
SYSTEM 12/20-9			1 R 1104593
SYSTEM 12/18-9	20 mm	L&R	1 R 1104594
SYSTEM 12/20-9			1 R 1104595
SYSTEM 12/18-13	20 mm	L&R	1 R 1113860
SYSTEM 12/20-13			1 R 1113861

4a COVER CAP STAY ARM

SEE PAGE 57

5 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)	L&R	1107263
SYSTEM 12/20-9 (13)	L&R	1107264

5a COVER CAP STAY BEARING

SEE PAGE 57

6 CENTRE LOCK PITCHED / ARCHED - vertical

Sash rebate height	Type/Lenght	Material Nr.
580 - 900	370	1083076
901 - 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 PO CORNER HINGE

SYSTEM 12/18-9	L	1105288
	R	1105289
SYSTEM 12/18-13	L	1105292
	R	1105293
SYSTEM 12/20-9	L	1105290
	R	1105291
SYSTEM 12/20-13	L	1105294
	R	1105295

7a COVER CAP CORNER HINGE

SEE PAGE 57

8 CORNER PIVOT REST

SYSTEM 12/18-9 (13)	L	1083248
	R	1083249
SYSTEM 12/20-9 (13)	L	1093886
	R	1093887

8a COVER CAP CORNER PIVOT REST

SEE PAGE 57

9 CENTRE LOCK PITCHED / ARCHED - horizontal

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

10 T&Ti STRIKER

SEE PAGE 58

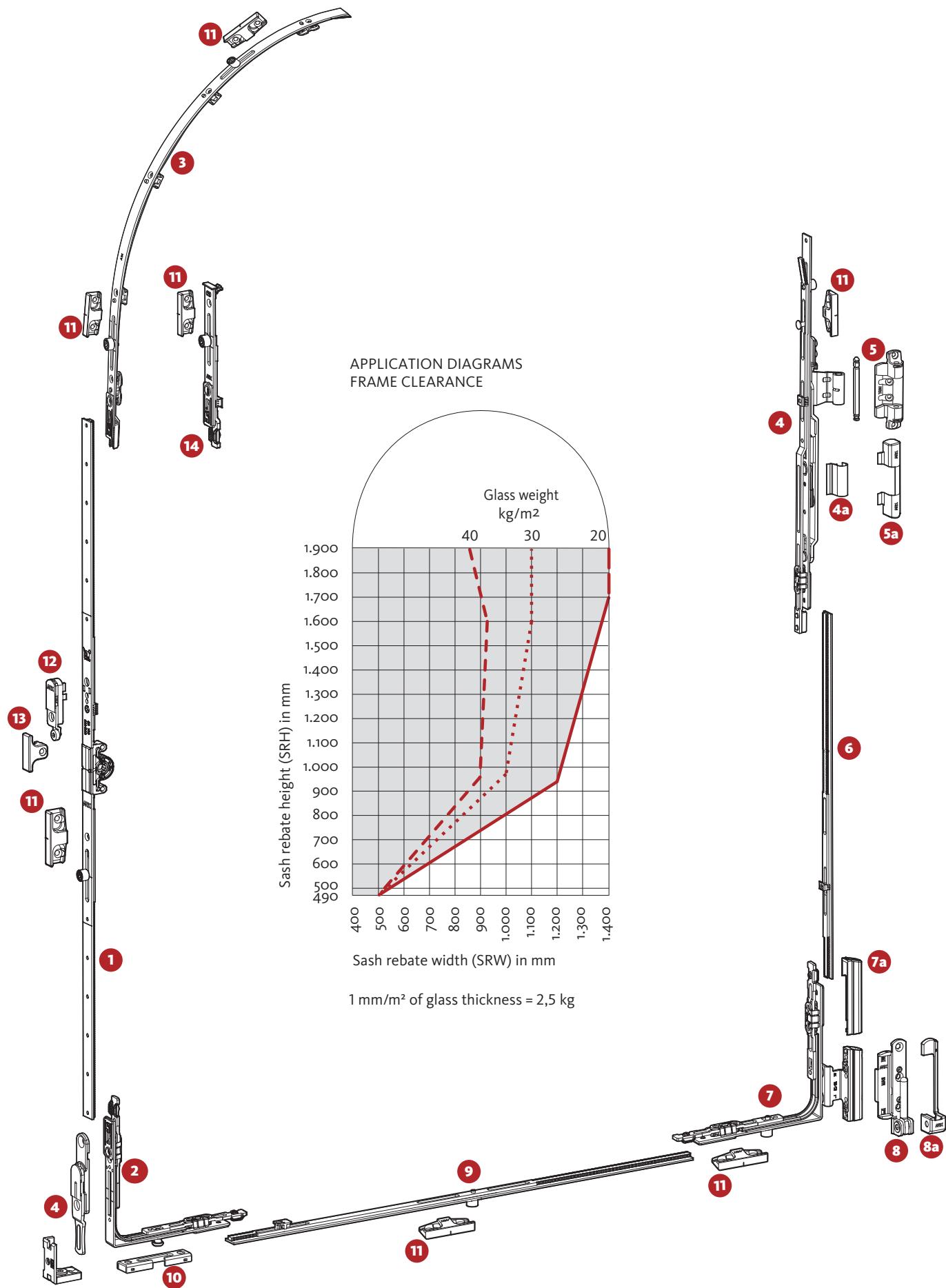
11 STRIKER

SEE PAGE 58

¹⁾ Mishandling device not available

²⁾ SET PITCHED / ARCHED - look page 49

Parts review

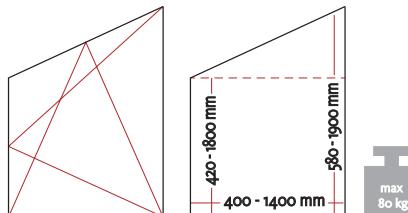


TURN & TILT Hardware - PITCHED

Centered / Variable Handle Height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght	Material Nr.
420 - 620 ¹⁾	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



2 CORNER DRIVE

1 RS 1100983

3 CENTRE LOCK PITCHED WINDOW

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

4 SET ARCHED / PITCHED WINDOW ²⁾

SYSTEM 12/18-9	18 mm	L&R	1 R	1104592
SYSTEM 12/20-9			1 R	1104593
SYSTEM 12/18-9	20 mm	L&R	1 R	1104594
SYSTEM 12/20-9			1 R	1104595
SYSTEM 12/18-13	20 mm	L&R	1 R	1113860
SYSTEM 12/20-13			1 R	1113861

4a COVER CAP STAY ARM

SEE PAGE 57

5 STAY BEARING WITH PIN

SYSTEM 12/18-9 (13)	L&R	1107263
SYSTEM 12/20-9 (13)	L&R	1107264

5a COVER CAP STAY BEARING

SEE PAGE 57

6 CENTRE LOCK PITCHED / ARCHED - vertical

Sash rebate height	Type/Lenght	Material Nr.
580 - 900	370	1083076
901 - 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 PO CORNER HINGE

SYSTEM 12/18-9	L	1105288
	R	1105289
SYSTEM 12/18-13	L	1105292
	R	1105293
SYSTEM 12/20-9	L	1105290
	R	1105291
SYSTEM 12/20-13	L	1105294
	R	1105295

7a COVER CAP CORNER HINGE

SEE PAGE 57

8 CORNER PIVOT REST

SYSTEM 12/18-9 (13)	L	1083248
	R	1083249
SYSTEM 12/20-9 (13)	L	1093886
	R	1093887

8a COVER CAP CORNER PIVOT REST

SEE PAGE 57

9 CENTRE LOCK PITCHED / ARCHED - horizontal

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

10 T&Ti STRIKER

SEE PAGE 58

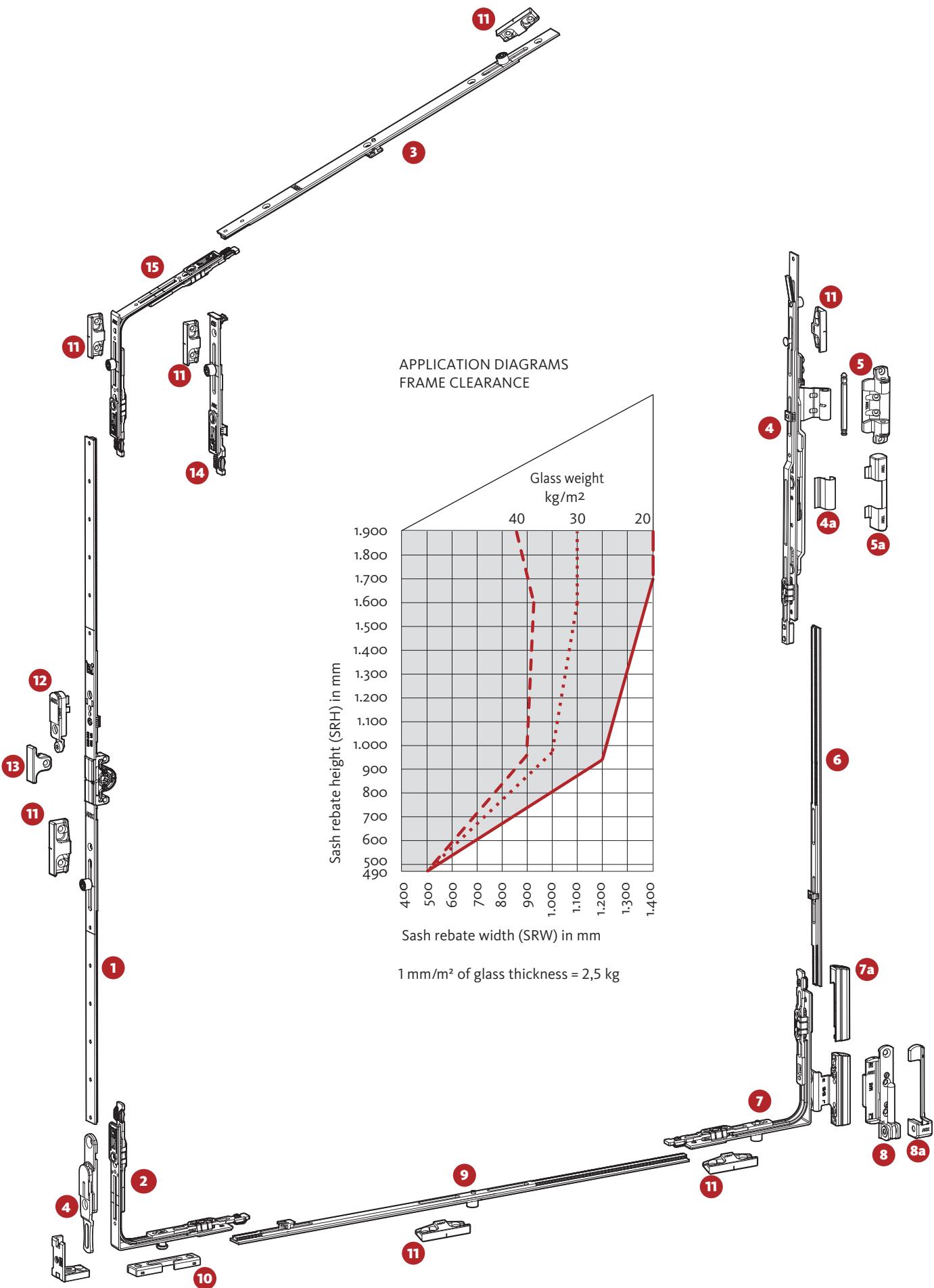
11 STRIKER

SEE PAGE 58

¹⁾ Mishandling device not available

²⁾ SET PITCHED / ARCHED - look page 49

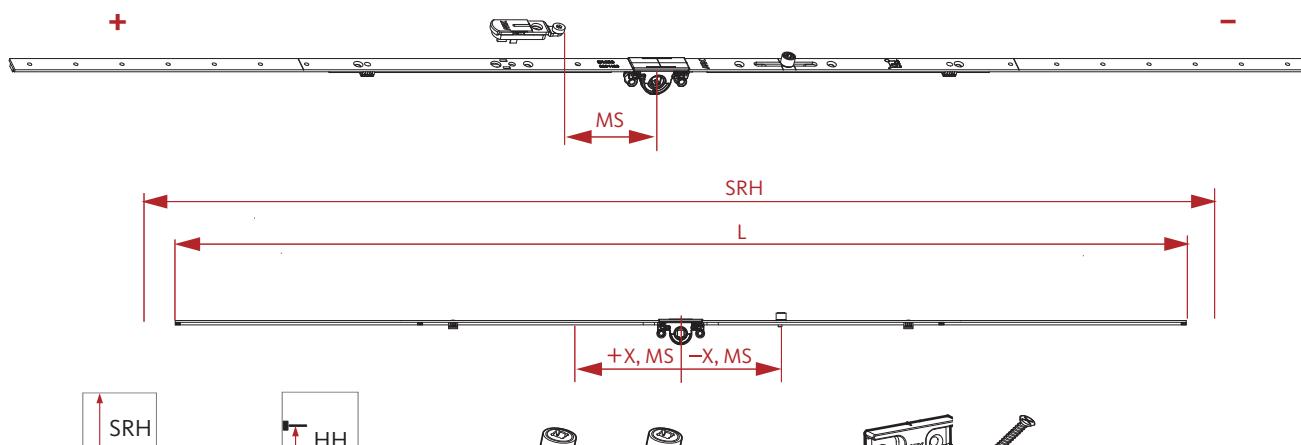
Parts review



T&T ESPAGNOLETTE M

Centered / variable Handle Height

Backset 14,5 mm

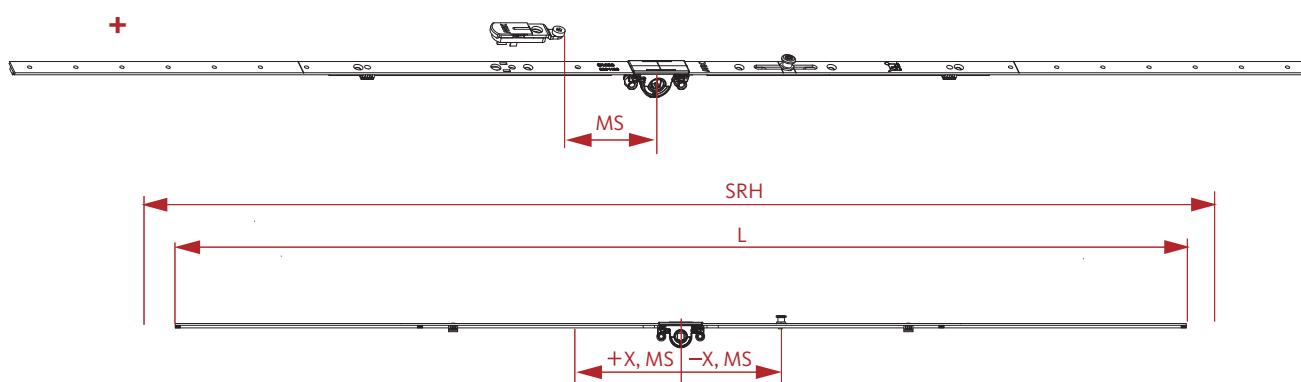


(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
420 - 620 ¹⁾	210 - 310	340	•	•	•	•	10 1083117
600 - 1000	300 - 500	720	-111	•	+38,5	1	10 1088473
900 - 1400	450 - 700	1120	-111	•	+99,5	1	10 1098964
1401 - 1800	701 - 900	1520	-111	•	+99,5	1	10 1098965
1601 - 2000	801 - 1000	1720	-311	+309	-121,5	2	10 1098966
2001 - 2400	1001 - 1200	2120	-311	+309	-121,5	2	10 1098967

Backset 14,5 mm, additional locking cam

(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
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

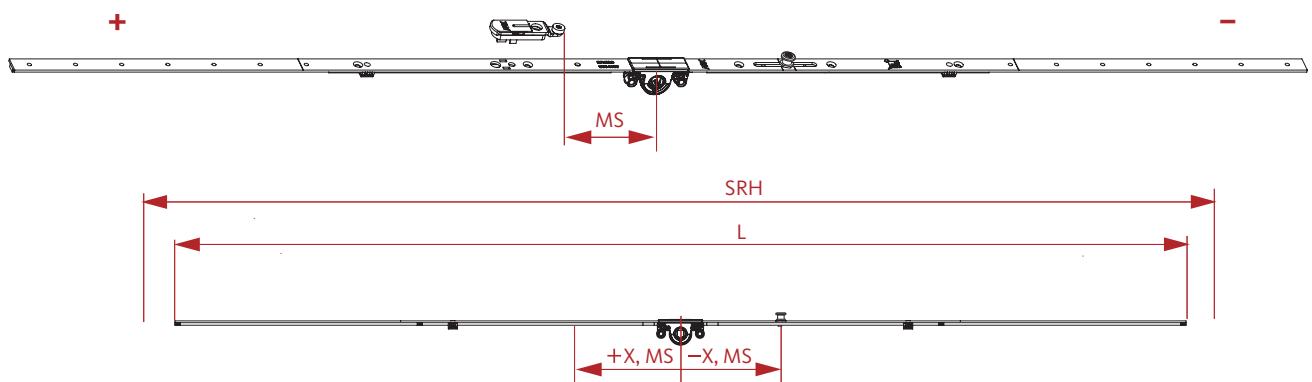
Backset 14,5 mm, security



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
600 - 1000	300 - 500	720	-111	•	+38,5	1	2 1101035
900 - 1400	450 - 700	1120	-111	•	+99,5	1	5 1101036
1401 - 1800	701 - 900	1520	-111	•	+99,5	1	7 1101037
1601 - 2000	801 - 1000	1720	-311	+309	-121,5	2	8 1101038
2001 - 2400	1001 - 1200	2120	-311	+309	-121,5	2	10 1101039

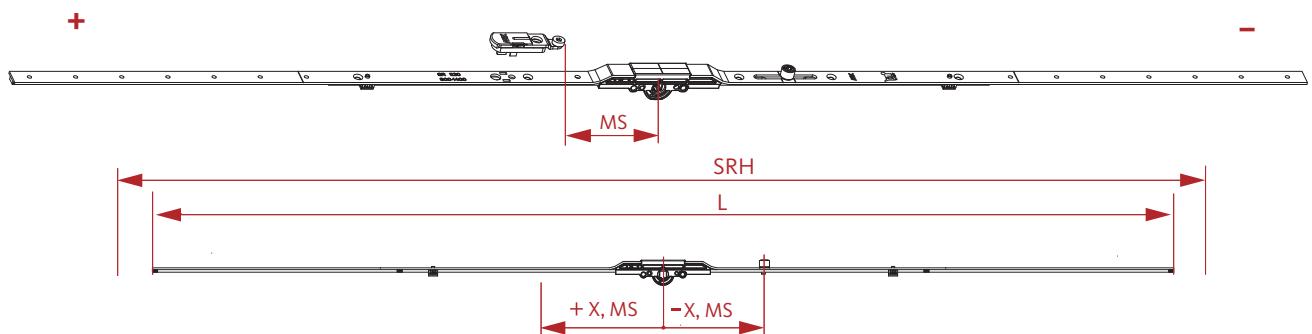
1) Mishandling device not available

Backset 14,5 mm, additional locking cam + security



(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
900 - 1400	450 - 700	1120	•	-211	+ 209	•	+99,5	2	6
1401 - 1800	701 - 900	1520	•	-211	+ 209	•	+99,5	2	8
1601 - 2000	801 - 1000	1720	•	- 311	+ 109	+ 559	-121,5	3	9
2001 - 2400	1001 - 1200	2120	-631	- 311	+ 309	+ 629	-121,5	4	12
								10	1105854

Backset 7,5 mm



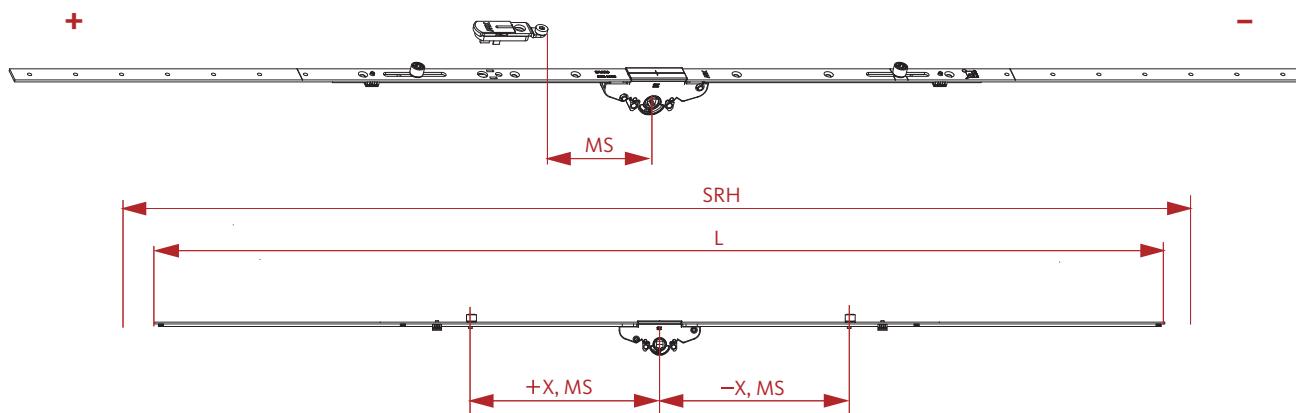
(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
420 - 820 ¹⁾	210 - 410	540	•	•	•	•	10
600 - 1000 ¹⁾	300 - 500	720	- 111	•	•	1	2
900 - 1400	450 - 700	1120	- 111	•	+ 99,5	1	5
1401 - 1800	701 - 900	1520	- 111	•	+ 99,5	1	7
1601 - 2000	801 - 1000	1720	- 311	+ 309	- 121,5	2	8
2001 - 2400	1001 - 1200	2120	- 311	+ 309	- 121,5	2	10
						10	1083128

¹⁾ Mishandling device not available

T&T ESPAGNOLETTE M larger backsets

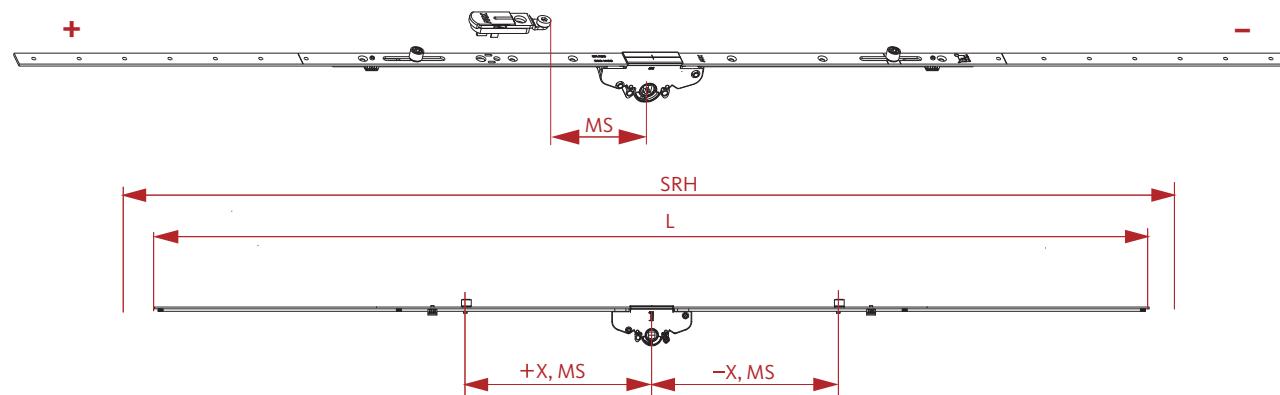
Centered / variable Handle Height

Backset 25 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
420 - 620 ¹⁾	210 - 310	340	•	•	•	•	•	•	1104484
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1	1104485
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2	1104486
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2	1104487
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	3	1104488
2001 - 2400	1001 - 1200	2120	+629	+309	-311	- 631	-121,5	4	1104489

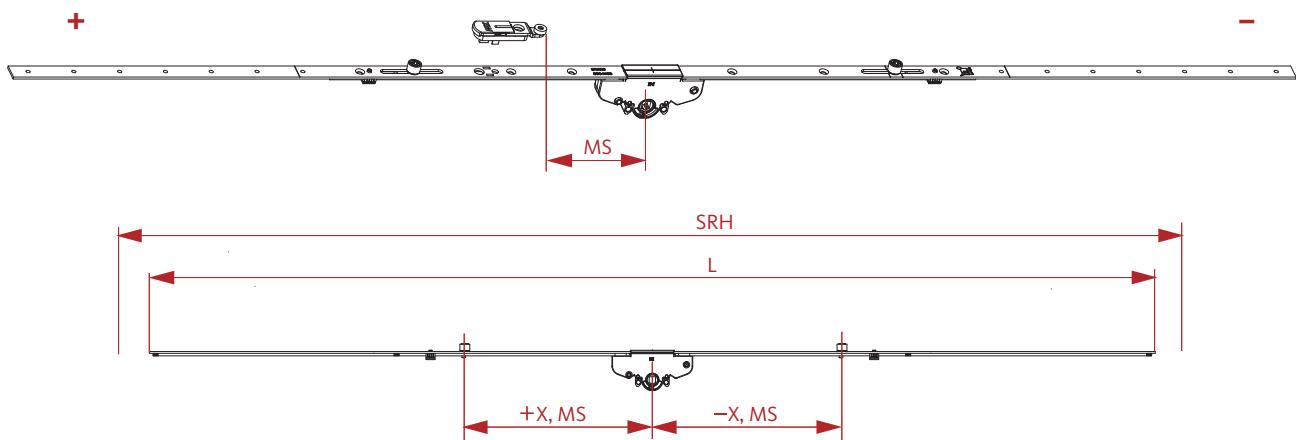
Backset 30 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
420 - 620 ¹⁾	210 - 310	340	•	•	•	•	•	•	1107647
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1	1107648
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2	1107649
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2	1107650
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	3	1107651
2001 - 2400	1001 - 1200	2120	+629	+309	-311	- 631	-121,5	4	1107652

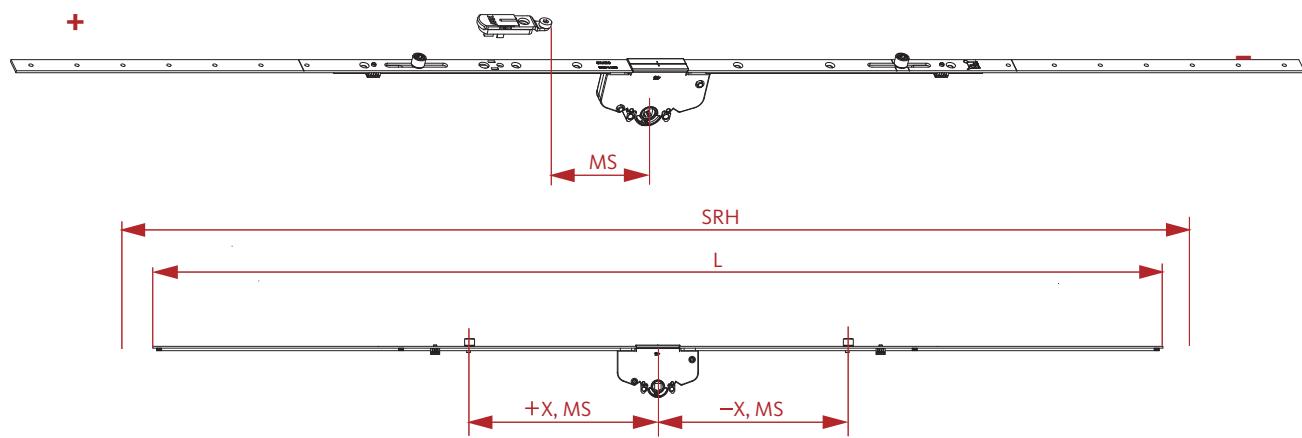
¹⁾ Mishandling device not available

Backset 35 mm



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

Backset 45 mm



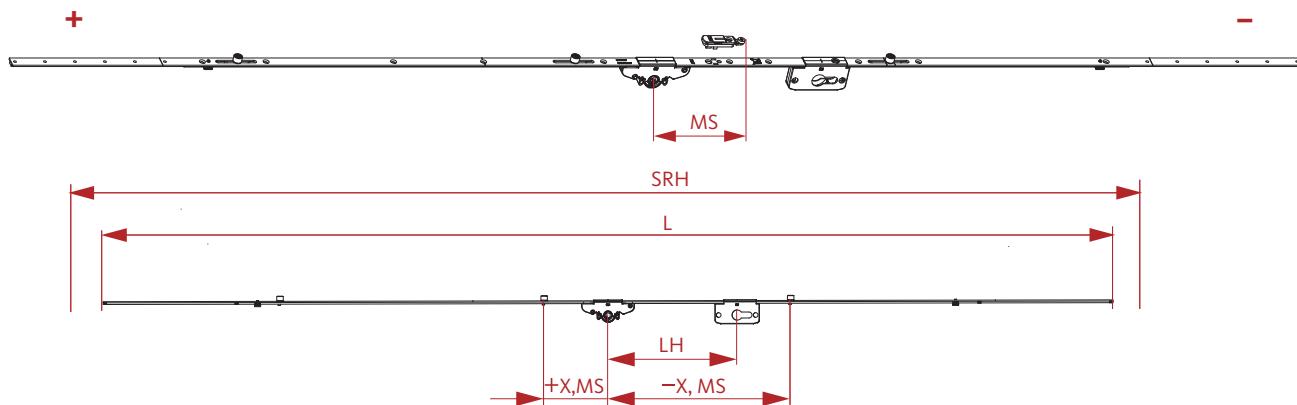
								Pack.	Material Nr.
(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)		
420 - 620 ¹⁾	210 - 310	340	•	•	•	•	•	•	6 1104490
600 - 1000	300 - 500	720	•	•	-111	•	+38,5	1 2	6 1104491
900 - 1400	450 - 700	1120	•	+209	-211	•	+99,5	2 6	6 1104492
1401 - 1800	701 - 900	1520	•	+209	-211	•	+99,5	2 8	6 1104493
1601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

¹⁾ Mishandling device not available

T&T ESPAGNOLETTE M larger backsets + lockable

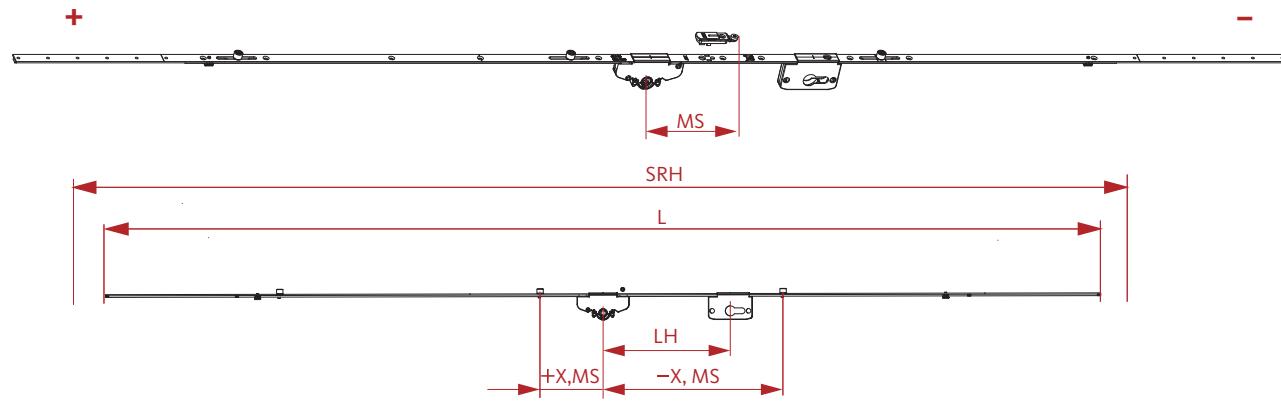
Centered / variable Handle Height

Backset 25 mm



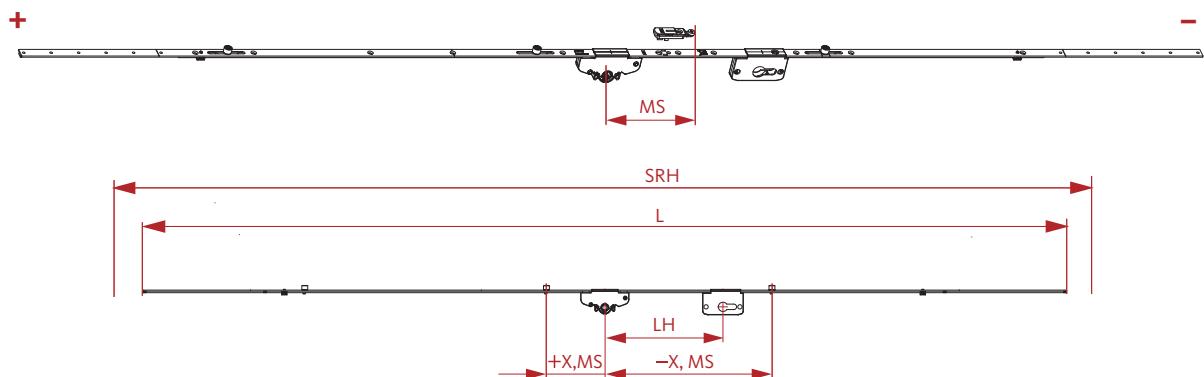
(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS(mm)	LH (mm)	Pack.	Material Nr.
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13

Backset 30 mm



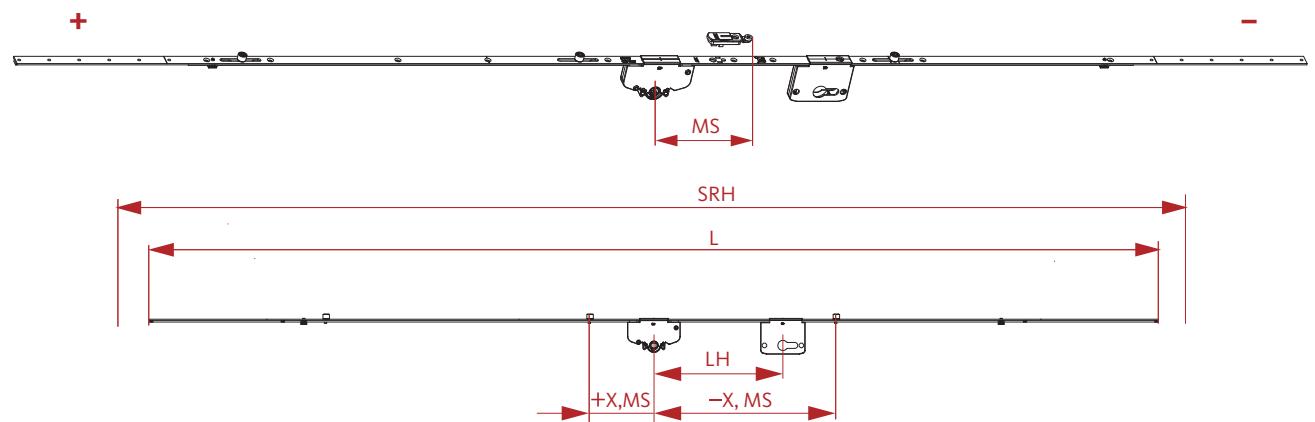
(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS mm	LH (mm)	Pack.	Material Nr.
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13

Backset 35 mm



	(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	LH (mm)	Pack.	Material Nr.
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

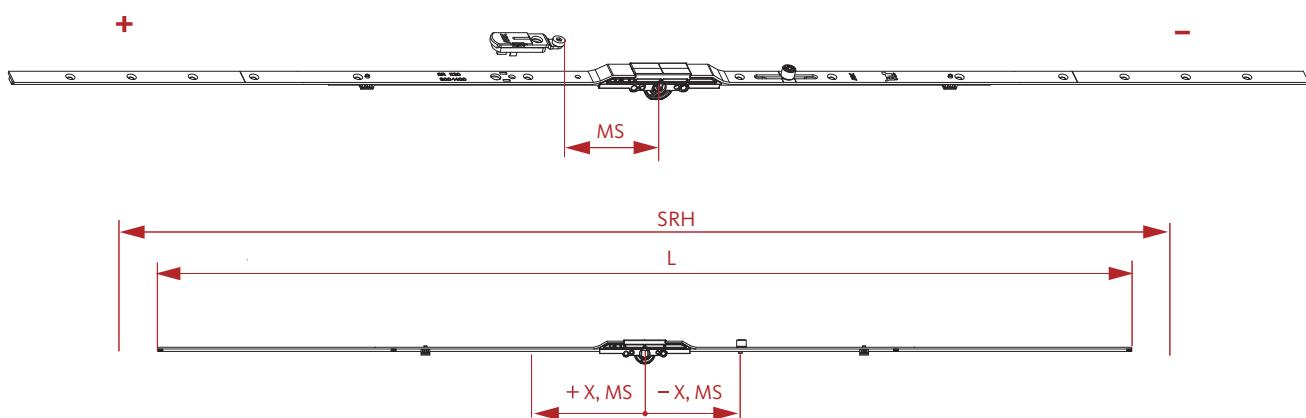


	(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS mm)	LH (mm)	Pack.	Material Nr.
1601 - 2000	801 - 1000	1720	+559	+109	-311	•	-121,5	220	3	10	6 1104482
2001 - 2400	1001 - 1200	2120	+629	+309	-311	-631	-121,5	220	4	13	6 1104483

ESPAGNOLETTE M

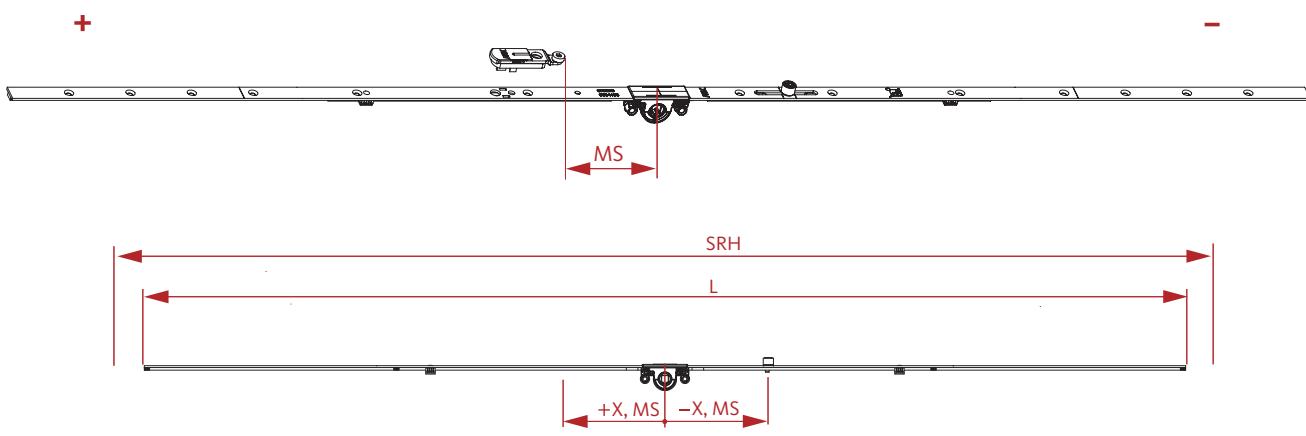
Centered / variable Handle Height

Backset 7,5 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
251 - 500 ¹⁾	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

Backset 14,5mm



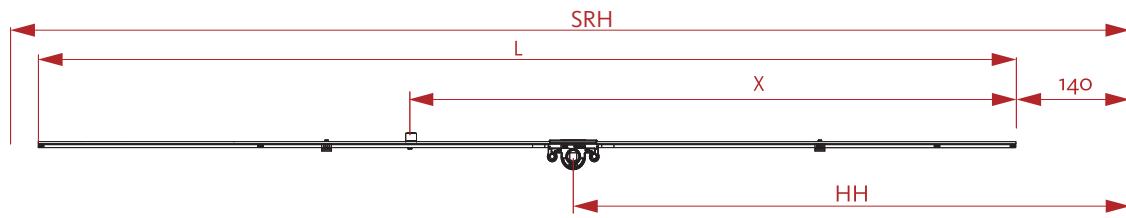
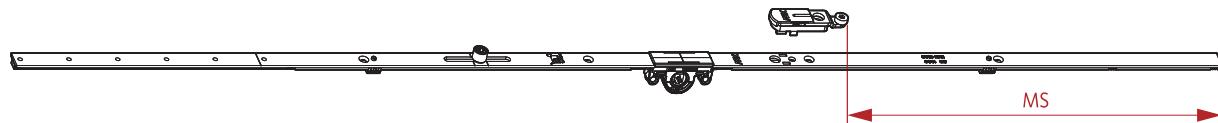
(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.
180 - 250 ¹⁾	90 - 125	180	•	- 65	•	•	•	1	2 20 1083163
251 - 500 ¹⁾	126 - 250	500	•	- 76	•	•	•	1	6 10 1083164
501 - 900	251 - 450	900	•	- 201	+ 199	•	- 128,5	2	12 10 1083165
901 - 1400	451 - 700	1400	•	- 401	+ 112	+ 399	- 128,5	3	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

¹⁾ Mishandling device not available

T&T ESPAGNOLETTE KV

Fixed Handle Height

Backset 14,5 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)		Pack.	Material Nr.
320 - 460 ^{1) 3)}	120	320	•	•	•	•	1	10 1083081
320 - 460 ^{1) 2) 4)}	120	320	•	•	•	•	2	10 1105430
461 - 600 ⁵⁾	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	•	344	1	4	10 1115134
1201 - 1400	563	1120	539	•	344	1	6	10 1115135
1401 - 1600	563	1320	539	•	344	1	7	10 1115136
1601 - 1800	563	1520	539	•	344	1	8	10 1115137
1601 - 1800	1000	1520	539	•	344	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

1) Mishandling device not available

2) With integrated T&Ti corner drive 1RS

3) Espagnolette with side tilting

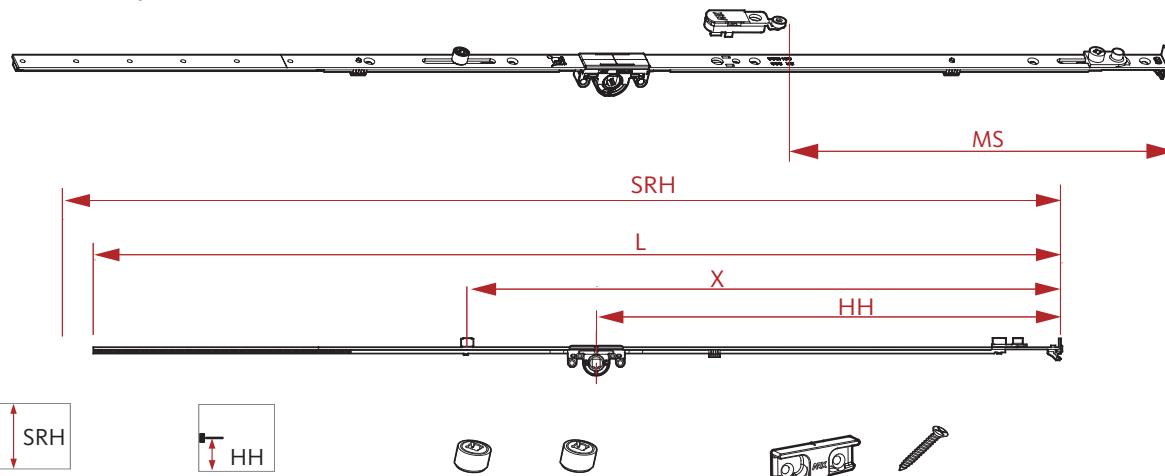
4) Espagnolette with bottom tilting

5) SRH 460 - 550 mm with short corner drive

T&T ESPAGNOLETTE

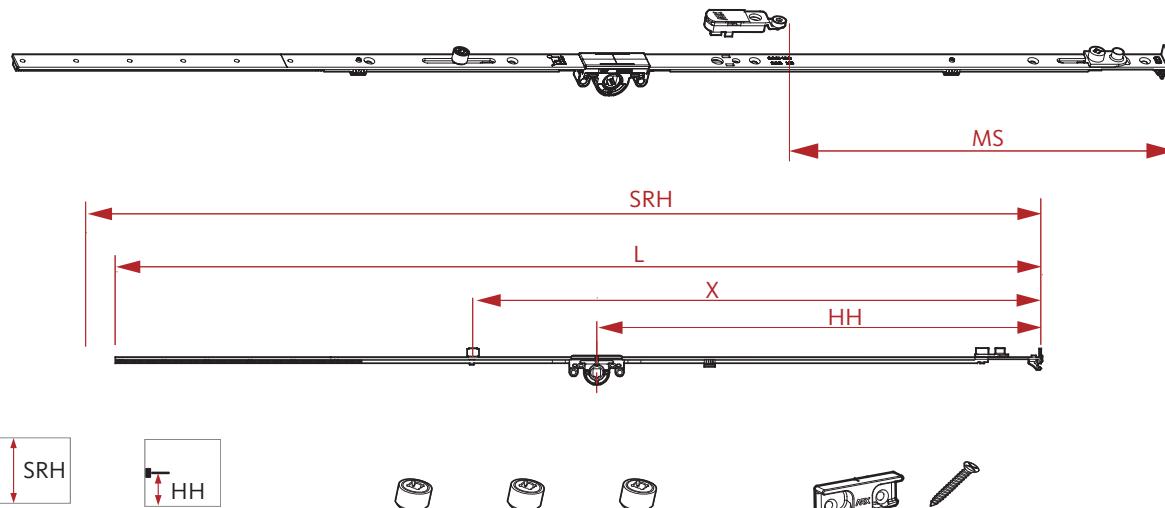
Fixed Handle Height

Backset 14,5 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.		
320 - 460 ¹⁾	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

Backset 14,5 mm, additional locking cam



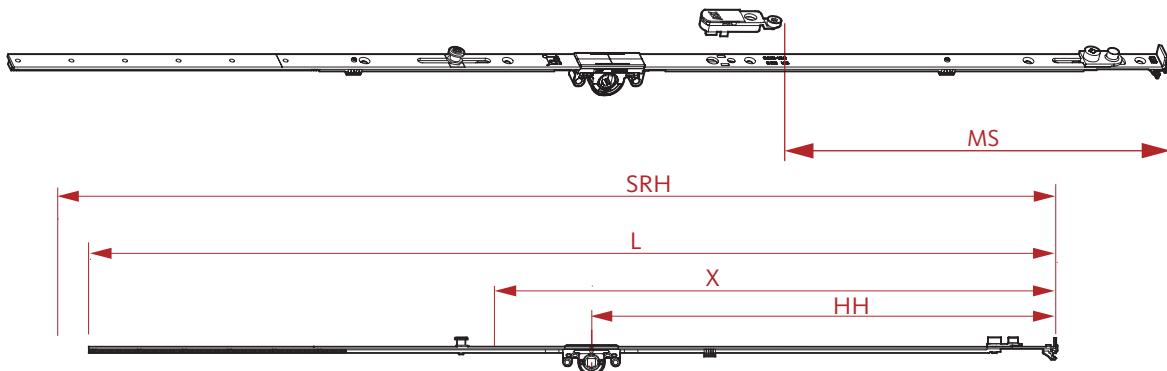
(mm)	(mm)	L (mm)	x (mm)	x (mm)	x (mm)	MS (mm)	Pack.	Material Nr.		
1201 - 1400	563	1260	910	679	•	384,5	2	9* (8)	10	1093878
1401 - 1600	563	1460	1110	679	•	384,5	2	10* (9)	10	1093877
1601 - 1800	563	1660	1110	679	•	384,5	2	11* (10)	10	1093874
1801 - 2000	1000	1860	•	1349	679	1117,5	2	12* (11)	10	1083091
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

1) Mishandling device not available

* without the use of centre lock

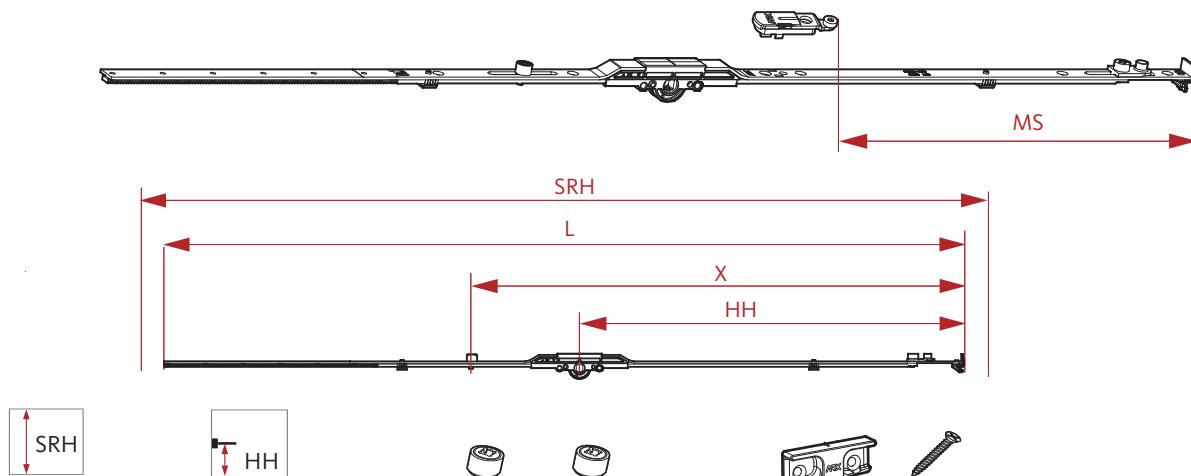
(x) number of screws with the use of centre lock/T&T corner drive

Backset 14,5 mm, security



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)		Pack.	Material Nr.
801 - 1000	413	860	529	•	284,5	1	5* (4)	10
1001 - 1200	513	1060	679	•	384,5	1	6* (5)	10
1201 - 1400	563	1260	679	•	384,5	1	8* (7)	10
1401 - 1600	563	1460	679	•	384,5	1	9* (8)	10
1601 - 1800	563	1660	679	•	384,5	1	10* (9)	10
1601 - 1800	1000	1660	679	•	384,5	1	10* (9)	10
1801 - 2000	1000	1860	1349	679	1117,5	2	13* (12)	10
2001 - 2200	1000	2060	1349	679	1117,5	2	14* (13)	10
2201 - 2400	1000	2260	1349	679	1117,5	2	15* (14)	10

Backset 7,5 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)		Pack.	Material Nr.
330 - 460 ¹⁾ ₂₎	120	320	•	•	•	•	2* (1)	10
461 - 600 ²⁾	170	460	•	•	•	•	3* (2)	10
601 - 800	263	660	•	•	134,5	•	4* (3)	10
801 - 1000	413	860	•	•	284,5	•	5* (4)	10
801 - 1000	413	860	529	•	284,5	1	5* (4)	10
1001 - 1200	513	1060	679	•	384,5	1	6* (5)	10
1201 - 1400	563	1260	679	•	384,5	1	8* (7)	10
1401 - 1600	563	1460	679	•	384,5	1	9* (8)	10
1601 - 1800	563	1660	679	•	384,5	1	10* (9)	10
1601 - 1800	1000	1660	679	•	384,5	1	10* (9)	10
1801 - 2000	1000	1860	1349	679	1117,5	2	13* (12)	10
2001 - 2200	1000	2060	1349	679	1117,5	2	14* (13)	10
2201 - 2400	1000	2260	1349	679	1117,5	2	15* (14)	10

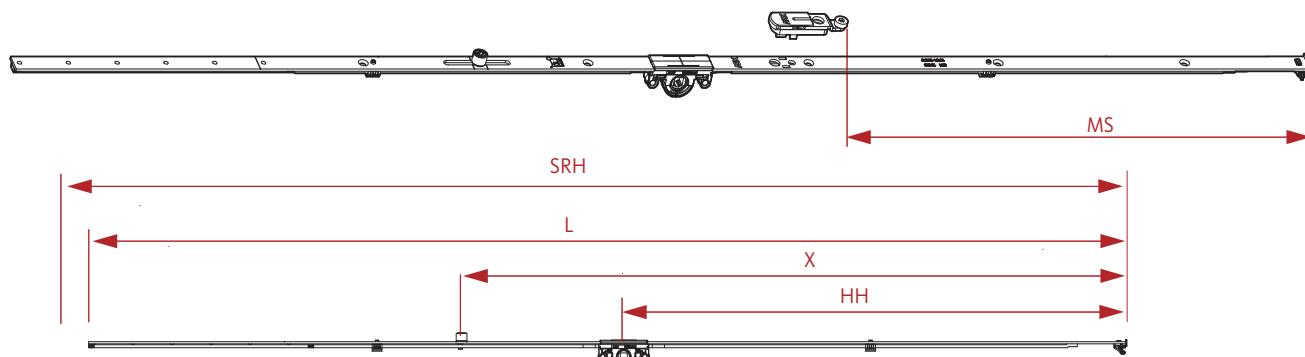
1) With integrated T&T corner drive 1RS

2) Mishandling device not available

T&Ti ESPAGNOLETTE

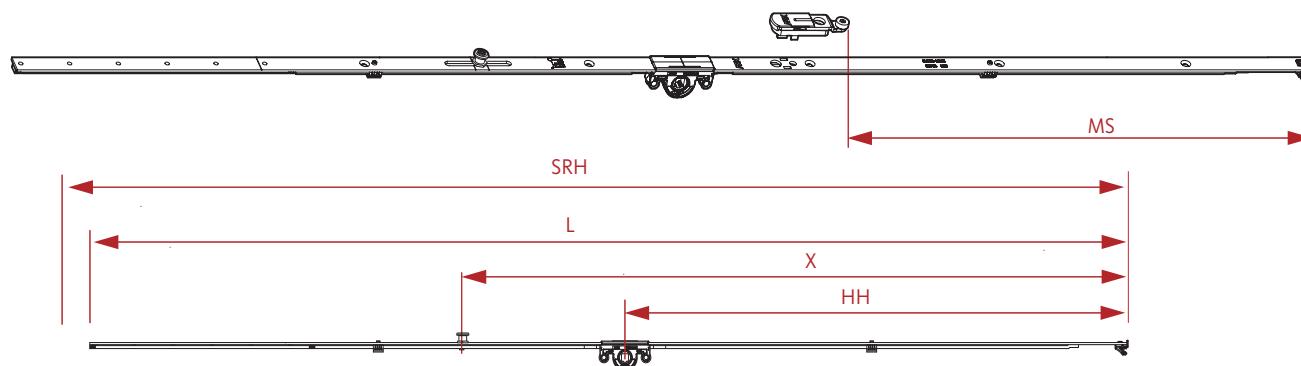
Fixed Handle Height

Backset 14,5 mm



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)		Pack.	Material Nr.
320 - 460 ^{1) 2)}	120	320	•	•	•	•	2	10
461 - 600	170	460	•	•	219,5	•	2	10
601 - 800	263	660	•	•	134,5	•	2	10
801 - 1000	413	860	529	•	284,5	1	4	10
1001 - 1200	513	1060	679	•	384,5	1	5	10
1201 - 1400	563	1260	679	•	384,5	1	7	10
1401 - 1600	563	1460	679	•	384,5	1	8	10
1601 - 1800	563	1660	679	•	384,5	1	9	10
1801 - 2000	1000	1860	1349	679	1117,5	2	11	10
2001 - 2200	1000	2060	1349	679	1117,5	2	12	10
2201 - 2400	1000	2260	1349	679	1117,5	2	13	10
								1083103

Backset 14,5 mm, security



(mm)	(mm)	L (mm)	x (mm)	x (mm)	MS (mm)		Pack.	Material Nr.
801 - 1000	413	860	529	•	284,5	1	4	10
1001 - 1200	513	1060	679	•	384,5	1	5	10
1201 - 1400	563	1260	679	•	384,5	1	7	10
1401 - 1600	563	1460	679	•	384,5	1	8	10
1601 - 1800	563	1660	679	•	384,5	1	9	10
1801 - 2000	1000	1860	1349	679	1117,5	2	11	10
2001 - 2200	1000	2060	1349	679	1117,5	2	12	10
2201 - 2400	1000	2260	1349	679	1117,5	2	13	10
								1101047

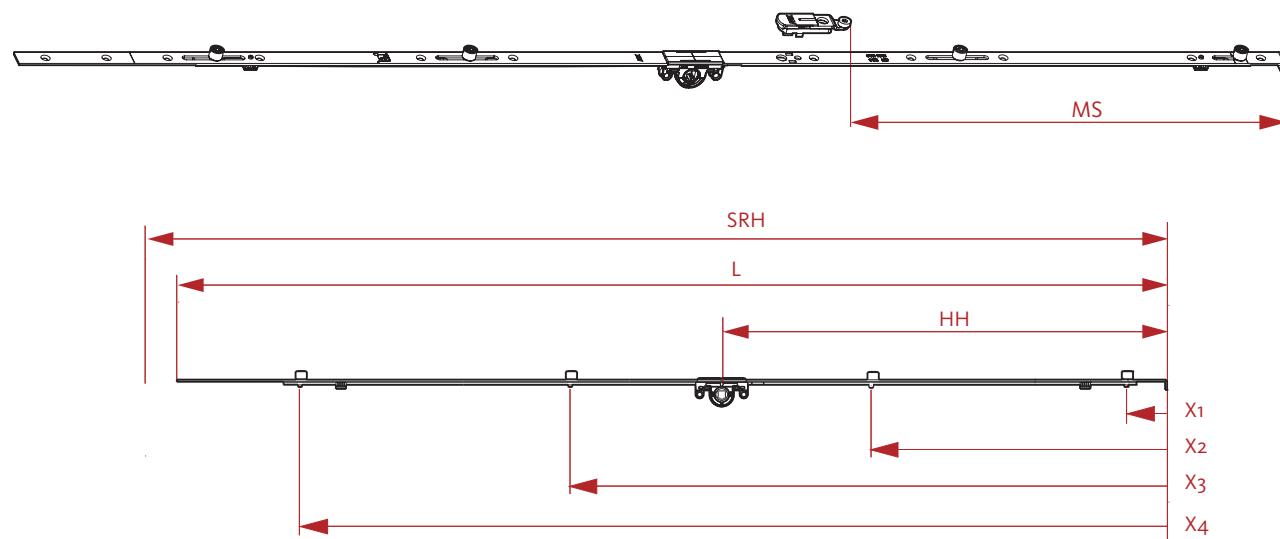
¹⁾ With integrated T&T corner drive 1RS

²⁾ Mishandling device not available

ESPAGNOLETTE

Fixed Handle Height

Backset 14,5 mm



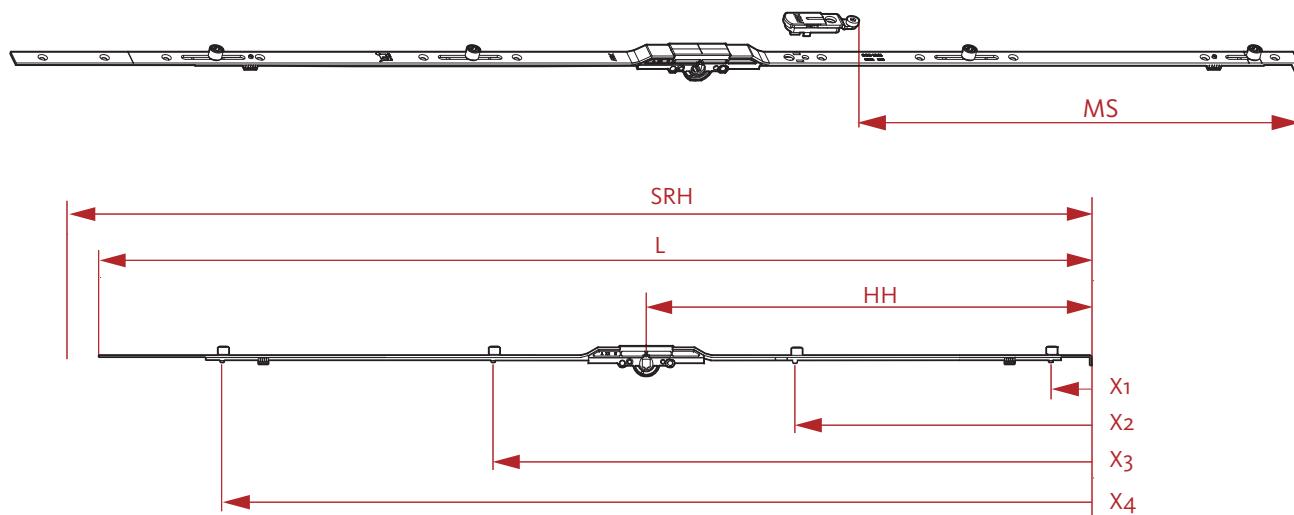
(mm)	(mm)	L (mm)	x1 (mm)	x2 (mm)	x3 (mm)	x4 (mm)	MS (mm)	Pack.	Material Nr.
400 - 500 ¹⁾	170	500	39	•	•	328	•	2	6
501 - 600	170	600	39	•	•	428	219,5	2	7
601 - 700	263	700	39	•	•	528	134,5	2	8
701 - 800	263	800	39	•	•	628	134,5	2	9
801 - 900	413	900	39	•	•	728	284,5	2	9
901 - 1000	413	1000	39	•	•	828	284,5	2	9
1001 - 1100	513	1100	39	•	708	928	384,5	2	10
1101 - 1200	513	1200	39	•	708	1028	384,5	3	10
1201 - 1300	563	1300	39	•	708	1128	384,5	3	11
1301 - 1400	563	1400	39	•	708	1228	384,5	3	11
1401 - 1500	563	1500	39	•	708	1328	384,5	3	11
1501 - 1600	563	1600	39	•	708	1428	384,5	3	12
1601 - 1700	563	1700	39	•	708	1528	384,5	3	12
1701 - 1800	563	1800	39	708	1128	1628	384,5	4	14
1801 - 2000	1000	2000	39	684	1278	1728	1117,5	4	15
2001 - 2200	1000	2200	39	684	1328	1928	1117,5	4	15
2201 - 2400	1000	2400	39	684	1528	2128	1117,5	4	17

¹⁾ Mishandling device not available

ESPAGNOLETTE

Fixed Handle Height

Backset 7,5 mm



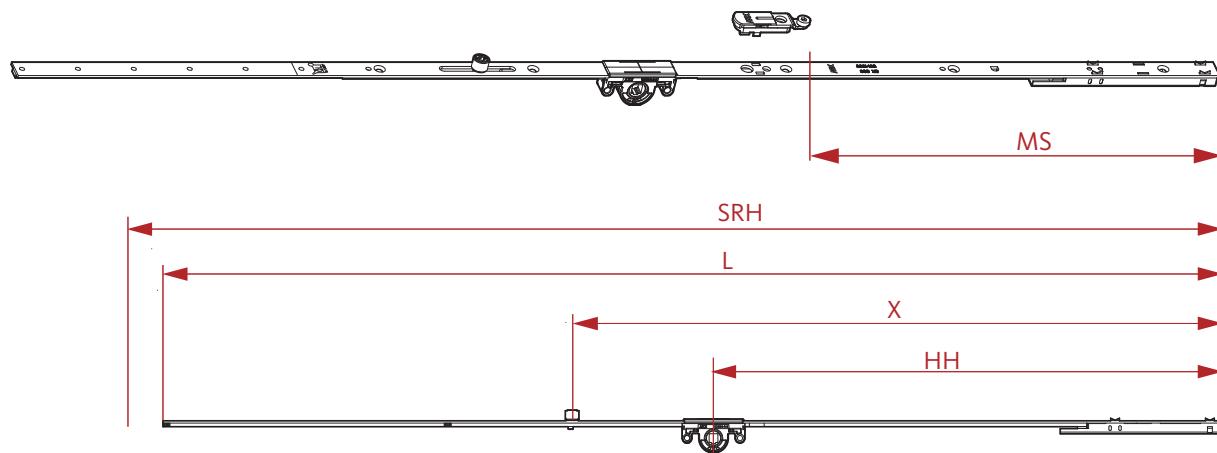
(mm)	(mm)	L (mm)	x1 (mm)	x2 (mm)	x3 (mm)	x4 (mm)	MS (mm)	Pack.	Material Nr.
400 - 500 ¹⁾	170	500	39	•	•	328	•	2	6 10 1083146
501 - 600 ¹⁾	170	600	39	•	•	428	•	2	7 10 1083147
601 - 700	263	700	39	•	•	528	134,5	2	8 10 1083148
701 - 800	263	800	39	•	•	628	134,5	2	8 10 1083149
801 - 900	413	900	39	•	•	728	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

¹⁾ Mishandling device not available

REVERSE ACTION ESPAGNOLETTE

Fixed Handle Height

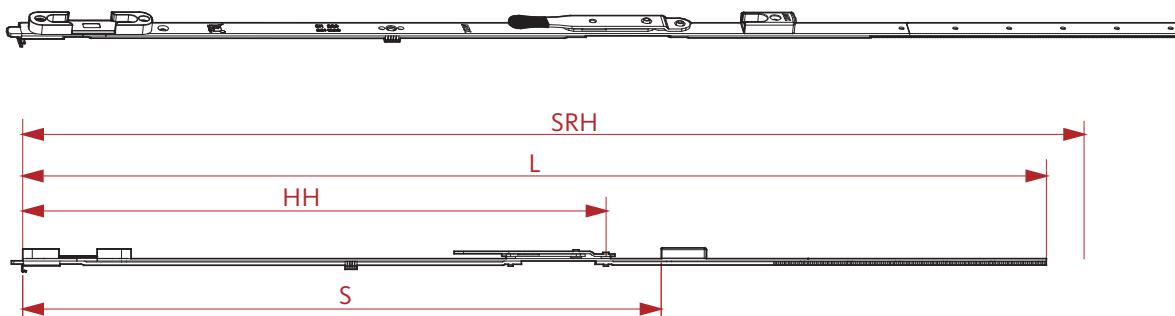
Backset 14,5 mm



(mm)	(mm)	L (mm)	x ₁ (mm)	x ₂ (mm)	MS (mm)		Pack.	Material Nr.
440 - 600	170	460	•	•	•	•	2	10
601 - 800	263	660	•	•	134,5	•	4	10
801 - 1000	413	860	529	•	284,5	1	5	10
1001 - 1200	513	1060	679	•	384,5	1	6	10
1201 - 1400	563	1260	679	•	384,5	1	8	10
1401 - 1600	563	1460	679	•	384,5	1	8	10
1601 - 1800	563	1660	679	1349	384,5	2	10	10
1801 - 2000	1000	1860	679	1349	384,5	2	12	10
2001 - 2200	1000	2060	679	1349	384,5	2	13	10
2201 - 2400	1000	2260	679	1349	384,5	2	14	10
								1105372

T&T FRENCH WINDOW ESPAGNOLETTE - OHG

Fixed Handle Height



(mm)	(mm)	L (mm)	S (mm)	S (mm)		Pack.	Material Nr.
600 - 800 ¹⁾	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

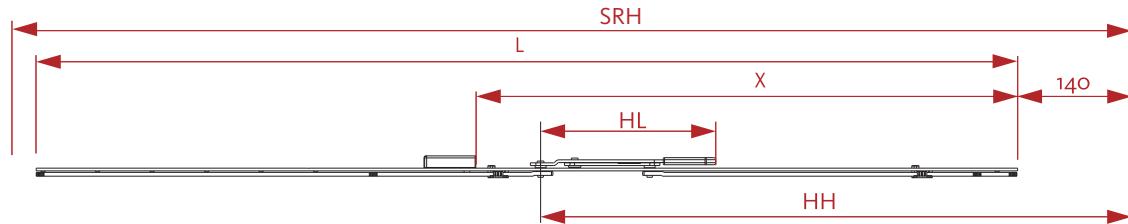
¹⁾ Mishandling device not available

* without the use of centre lock

(x) number of screws with the use of centre lock/T&T corner drive

T&T FRENCH WINDOW ESPAGNOLETTE KV - OHG

Fixed Handle Height



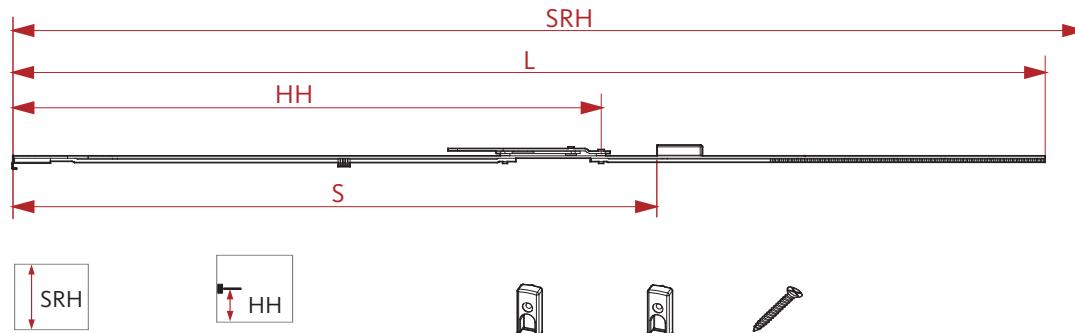
(mm)	(mm)	L (mm)	x (mm)	x (mm)	HL (mm)	Pack.	Material Nr.
460 - 600 ^{1) 2)}	230	410	•	•	130	2	1118420
601 - 800 ²⁾	335	520	•	•	130	2	1118421
801 - 1000	490	720	397,5	•	130	3	1118423
1001 - 1200	335	920	547,5	•	130	4	1118424
1201 - 1400	335	1120	547,5	•	130	6	1118425
1401 - 1600	335	1320	547,5	•	130	7	1118426
1601 - 1800	335	1520	547,5	•	130	8	1118427
1801 - 2000	640	1720	547,5	1217,5	130	11	1118428
2001 - 2200	640	1920	547,5	1217,5	130	12	1118429
2201 - 2400	640	2120	547,5	1217,5	130	13	1118430

1) SRH 460 - 550 mm with short corner drive

2) Mishandling device not available

T&Ti FRENCH WINDOW ESPAGNOLETTE - OHG

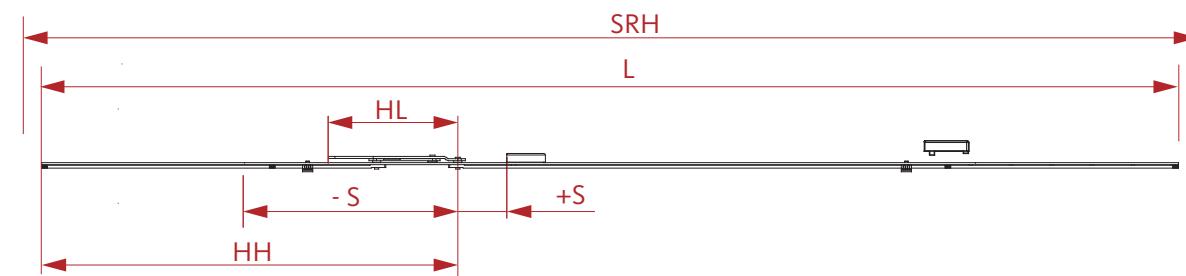
Fixed Handle Height



(mm)	(mm)	L (mm)	S (mm)	S (mm)	Pack.	Material Nr.
600 - 800 ¹⁾	335	660	•	•	4*(3)	10
801 - 1000	490	860	536,5	•	4*(3)	10
1001 - 1200	335	1060	687,5	•	5*(4)	10
1201 - 1400	335	1260	687,5	•	8*(7)	10
1401 - 1600	335	1460	687,5	•	8*(7)	10
1601 - 1800	335	1660	687,5	•	9*(8)	10
1801 - 2000	640	1860	687,5	1357,5	10*(9)	10
2001 - 2200	640	2060	687,5	1357,5	11*(10)	10
2201 - 2400	640	2260	687,5	1357,5	12*(11)	10

FRENCH WINDOW ESPAGNOLETTE M - OHG

Centered / variable Handle Height



(mm)	(mm)	L (mm)	S (mm) ³⁾	S (mm)	S (mm)	S (mm) ³⁾	Lenght (mm)	Pack.	Backset (mm) ²⁾	Material Nr.
500 - 680 ¹⁾	290-380	400	•	•	•	•	2	130	10	14,5
600 - 1000 ¹⁾	387-586	720	•	- 189,5	•	•	3	130	10	14,5
800 - 1000 ¹⁾	587-686	720	•	- 289,5	•	•	3	130	10	7,5
900 - 1400	350-550	1120	•	+ 61,5	•	•	4	130	10	14,5/7,5
900 - 1400	350-550	1120	•	- 178,5	+ 241,5	•	4	130	10	14,5
1401 - 1800	350-550	1520	+ 161,5	+ 261,5	•	+ 581,5	6	130	10	14,5/7,5
1801 - 2000	350-550	1720	+ 581,5	+ 161,5	+ 781,5	+ 1031,5	8	130	10	14,5/7,5
2001 - 2400	350-550	2120	+ 41,5	+ 361,5	+ 981,5	+ 1301,5	10	130	10	14,5/7,5

1) Mishandling device not available

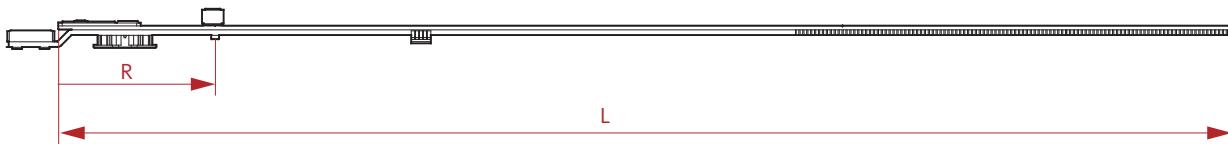
2) Compatibled with T&T espagnolette M, Backset - see table

3) For French window espagnolette M with additional locking cam. French window espagnolette to be installed striker 1100213.

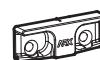
* without the use of centre lock

(x) number of screws with the use of centre lock / T&T corner drive

ESPAÑOLETTE EXTENSION

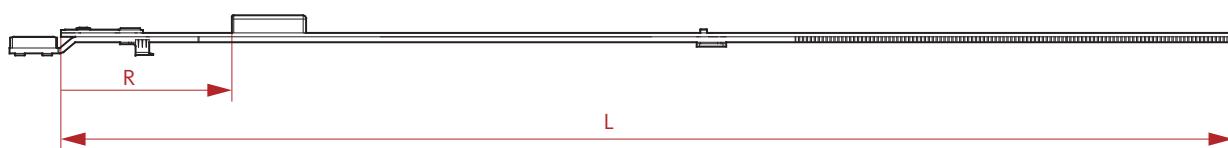


SRH



Description	(mm)	L (mm)	R (mm)		Pack.	Material Nr.
EXTENSION 400	200 - 400	400	79	3	1	1102897
EXTENSION 600	401 - 600	600	79	4	1	1102898
EXTENSION 800	601 - 800	800	79	5	1	1102899

French window espagnolette extension

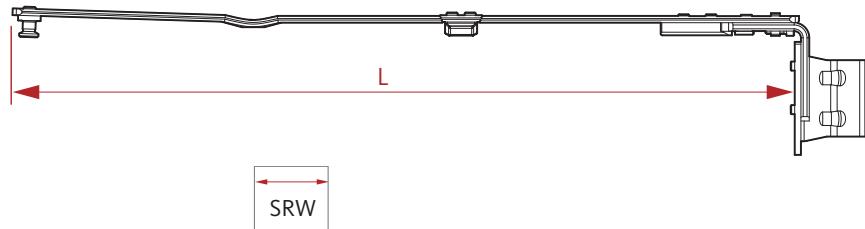


SRH



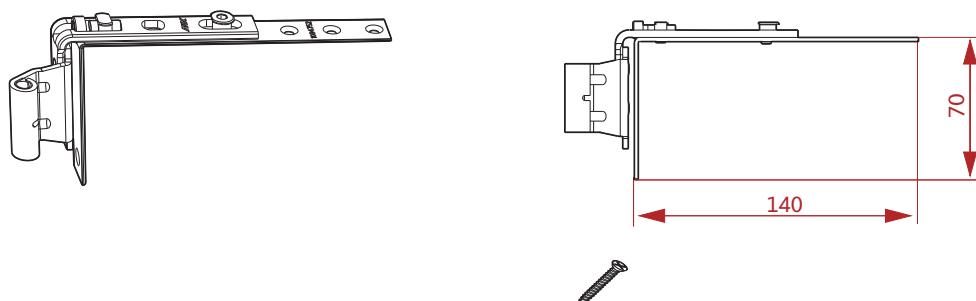
Description	(mm)	L (mm)	R (mm)		Pack.	Material Nr.
EXTENSION 400	200 - 400	400	87,5	3	1	1105373
EXTENSION 600	401 - 600	600	87,5	4	1	1105374

STAY ARM



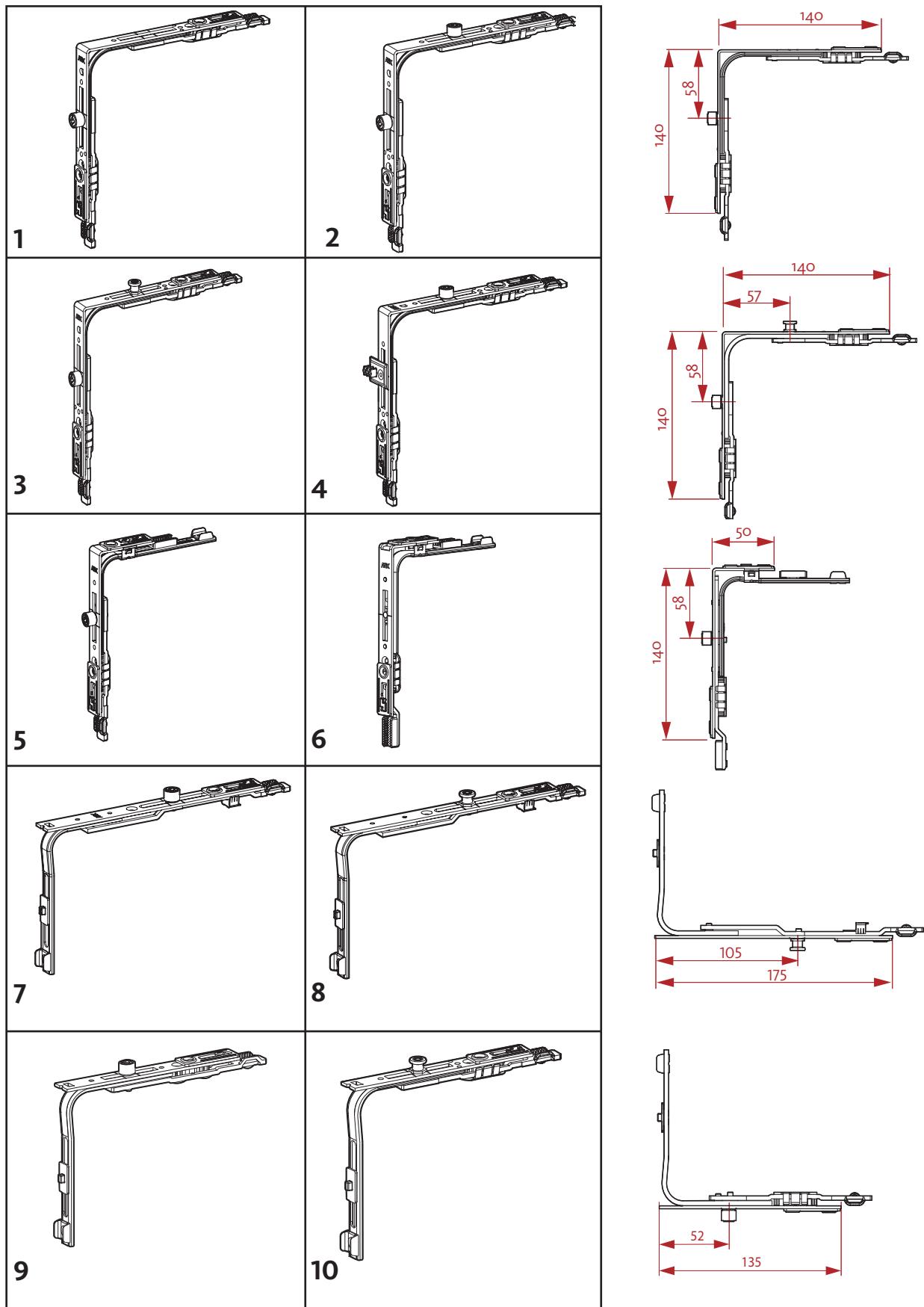
Description	(mm)	L (mm)	Position	Pack.	Material Nr.
SYSTEM 12/18-9	250 - 410	150	L	10	1131560
	250 - 410	150	R	10	1131561
	411 - 610	250	L	10	1083002
	411 - 610	250	R	10	1083003
	611 - 810	350	L	10	1083004
	611 - 810	350	R	10	1083005
	811 - 1400	500	L	10	1083006
	811 - 1400	500	R	10	1083007
SYSTEM 12/20-9	250 - 410	150	L	10	1131556
	250 - 410	150	R	10	1131567
	411 - 610	250	L	10	1094045
	411 - 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
SYSTEM 12/18-13	250 - 410	150	L	10	1131562
	250 - 410	150	R	10	1131563
	411 - 610	250	L	10	1096075
	411 - 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
SYSTEM 12/20-13	250 - 410	150	L	10	1131558
	250 - 410	150	R	10	1131559
	411 - 610	250	L	10	1096081
	411 - 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

Rebate stay arm



Description	Position	Pack.	Material Nr.
SYSTEM 12/18-9	L	5	1093892
	R	5	1093893
SYSTEM 12/20-9	L	5	1093894
	R	5	1093895
SYSTEM 12/18-13	L	5	1096113
	R	5	1096114
SYSTEM 12/20-13	L	5	1096115
	R	5	1096116

CORNER DRIVE

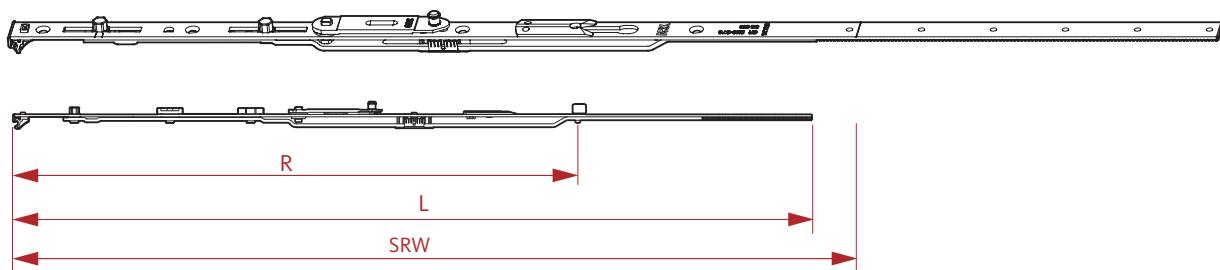


CORNER DRIVE


NV


Type	(mm)	(mm)	Description					Pack.	Material Nr.
1	320 - 2400	340 - 1400	Corner drive	1R	1	•	4	10	1103158
1a	320 - 2400	340 - 1400	Corner drive	1RS	1	•	4	10	1100983
2	320 - 2400	340 - 1400	Corner drive	2R	2	•	4	10	1103159
2a	320 - 2400	340 - 1400	Corner drive	2RS	2	•	4	10	1100984
3	320 - 2400	340 - 1400	Corner drive	1R + 1RS	1	•	4	10	1100985
4a	320 - 2400	340 - 1400	Corner drive	1R + NV* R	1	1	4	10	1103160
4b	320 - 2400	340 - 1400	Corner drive	1R + NV* L	1	1	4	10	1103165
4c	320 - 2400	340 - 1400	Corner drive	1RS + NV* R	1	1	4	10	1116988
4d	320 - 2400	340 - 1400	Corner drive	1RS + NV* L	1	1	4	10	1116987
5	290 - 320	250 - 340	Short corner drive	1R	1	•	3	10	1103162
5a	290 - 320	250 - 340	Short corner drive	1RS	1	•	3	10	1100986
6	320 - 2400	250 - 340	Short corner drive w. shootbolt	•	1	•	3	10	1103161
7	320 - 2400	250 - 1400	Corner drive 180	1R	1	•	2	10	1103164
8	320 - 2400	250 - 1400	T&T Corner drive 180 - SECURITY	1RS	1	•	4	10	1100987
9	320 - 2400	250 - 1400	Corner drive 140	1R	1	•	2	10	1103166
10	320 - 2400	250 - 1400	T&T Corner drive 140 - SECURITY	1RS	1	•	2	10	1100988

SASH-STAY GUIDE



(mm)	L (mm)	R (mm)		Pack.	Material Nr.	
250 - 410 ¹⁾	290	•	•	2* (1)	10	1123308
411 - 610	470	•	•	3* (2)	10	1083038
611 - 810	670	•	•	5* (4)	10	1083039
811 - 1010	870	547	1	6* (5)	10	1083040
1011 - 1210	1070	608	1	8* (7)	10	1083041
1211 - 1400	1270	808	1	9* (8)	10	1083042

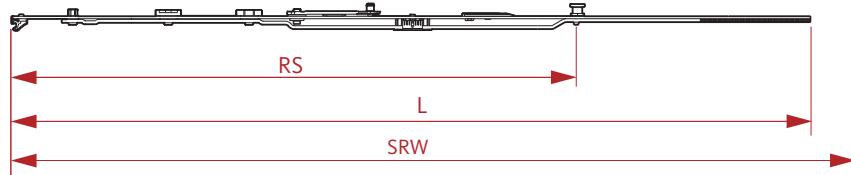
¹⁾ SRW = 250 - 340; with short corner drive

* without the use of centre lock

(x) number of screws with the use of centre lock/T&T corner drive

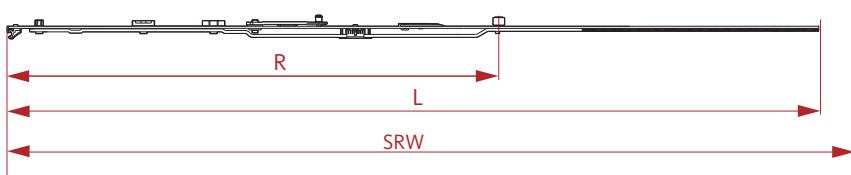
SASH-STAY GUIDE

Security



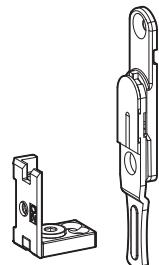
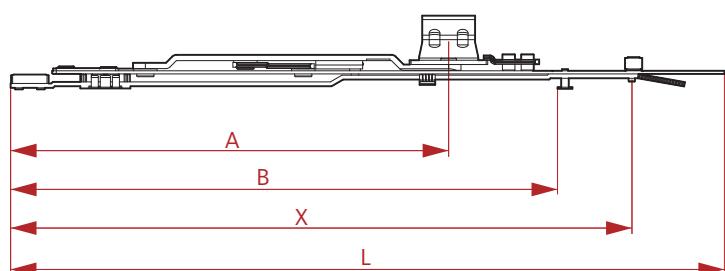
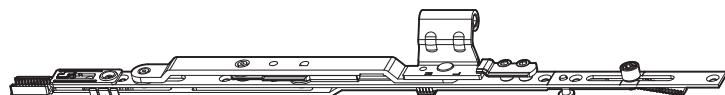
(mm)	L (mm)	RS (mm)		Pack.	Material Nr.
811 - 1010	870	547	1	6* (5)	10 1100978
1011 - 1210	1070	608	1	8* (7)	10 1100980
1211 - 1400	1270	808	1	9* (8)	10 1100981

Turn sash



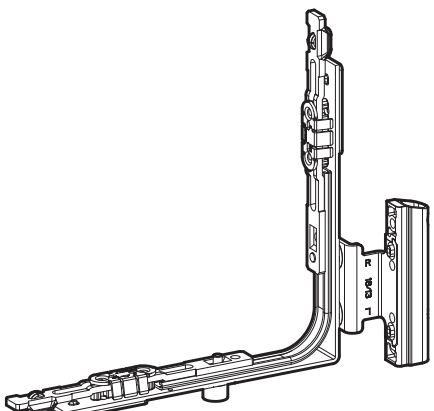
(mm)	L (mm)	R (mm)		Pack.	Material Nr.
410 - 610	250 / 470	•	•	3* (2)	10 1105855
611 - 810	350 / 670	•	•	5* (4)	10 1105856
811 - 1010	500 / 870	547	1	6* (5)	10 1105857
1011 - 1211	350 / 670 + 400	547	2	8* (7)	10 1105856 + 1102897
1211 - 1400	500 / 870 + 400	547	2	9* (8)	10 1105857 + 1102897

SET PITCHED / ARCHED WINDOW



Description	Position	L (mm)	X (mm)	A (mm)	B (mm)	Pack.	Material Nr.
System 12/18-9 (18 mm)	L&R	430	372	249	320	1	10
System 12/20-9 (18 mm)	L&R	430	372	249	320	1	10
System 12/18-9 (20 mm)	L&R	430	372	249	320	1	10
System 12/20-9 (20 mm)	L&R	430	372	249	320	1	10
System 12/18-13 (20 mm)	L&R	430	372	249	320	1	10
System 12/20-13 (20 mm)	L&R	430	372	249	320	1	10

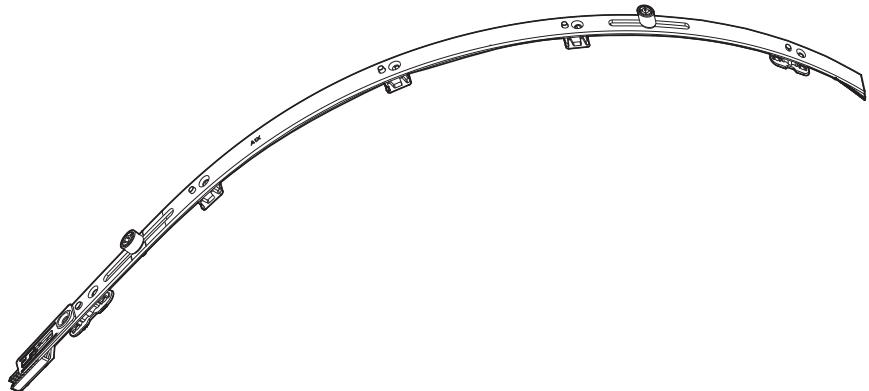
CORNER HINGE - FOR PITCHED / ARCHED WINDOW



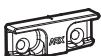
Description	Position		Pack.	Material Nr.
SYSTEM 12/18-9	L	6	10	1105288
	R	6	10	1105289
SYSTEM 12/20-9	L	6	10	1105290
	R	6	10	1105291
SYSTEM 12/18-13	L	6	10	1105292
	R	6	10	1105293
SYSTEM 12/20-13	L	6	10	1105294
	R	6	10	1105295

CENTRE LOCK

Arched window

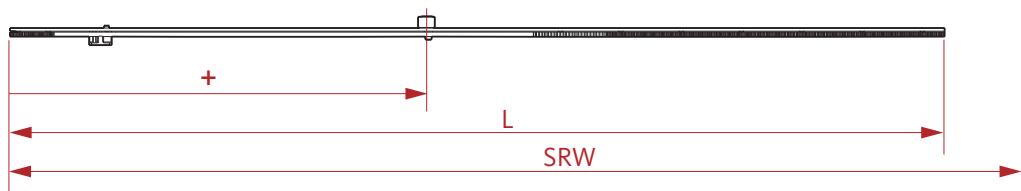


SRW

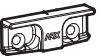


(mm)	L (mm)	(mm)	(mm)		Pack.	Material Nr.
610 - 1400	590	79	429	2	6	10

Pitched & arched horizontal

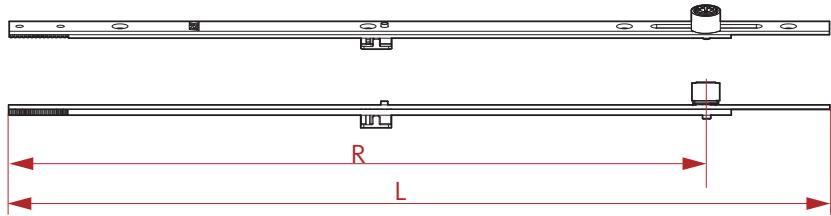


SRW



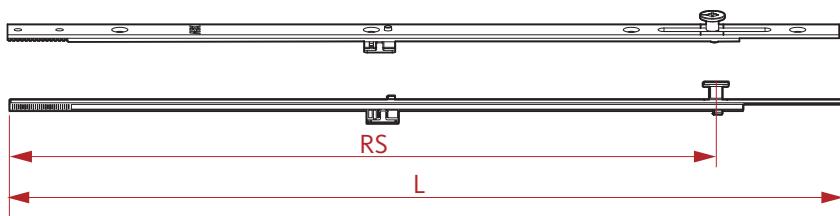
(mm)	L (mm)	(mm)	(mm)		Pack.	Material Nr.
400 - 650	370	•	•	•	1	10
651 - 900	620	276	•	1	3	10
901 - 1150	870	526	•	1	4	10
1151 - 1400	1120	276	776	2	6	10

Centre lock



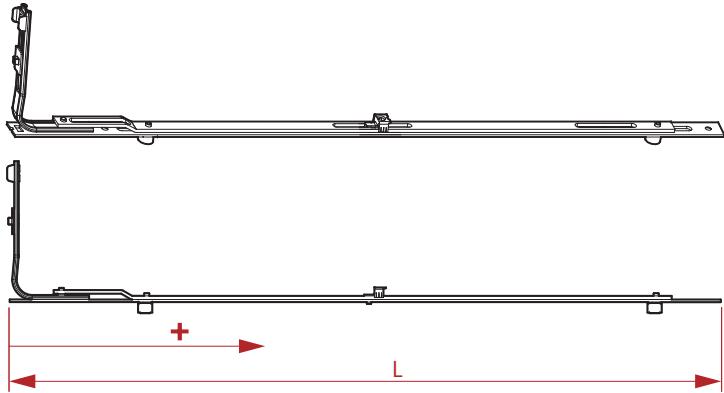
Description	R (mm)	Pack.	Material Nr.
400	339	4	10
600	539	4	10
600 clamping	539	4	10

Security



Description	L (mm)	RS (mm)			Pack.	Material Nr.
200	200	139	1	2	10	1101005
400	400	339	1	4	10	1101006
600	600	539	1	4	10	1101012
200 clamping	200	139	1	2	10	1101015
400 clamping	400	339	1	4	10	1101016
600 clamping	600	539	1	4	10	1101017

CENTRE LOCK

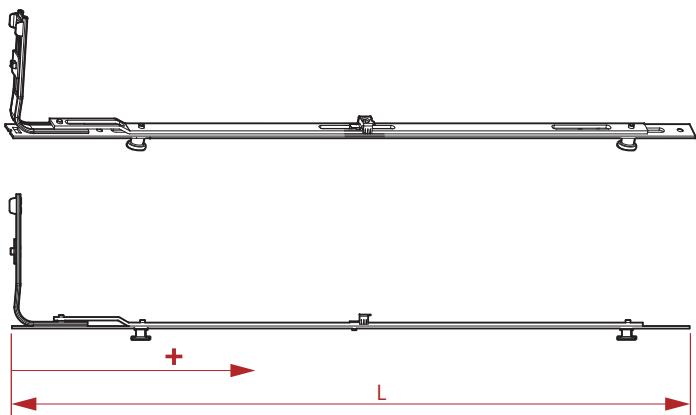


SRH SRW



(mm)	(mm)	L (mm)	(mm)	(mm)	(mm)	(mm)	Pack.	Material Nr.
600 - 800	600 - 800	350	299	•	•	•	1	4
801 - 1200	801 - 1200	550	105	499	•	•	2	4
1201 - 1600	1201 - 1400	850	105	799	•	•	2	6
1601 - 2200	•	1550	105	799	1499	•	3	10
2201 - 2400	•	2000	105	799	1499	1949	4	11
							10	1093871
							10	1083058
							10	1083059
							10	1083060
							10	1083064

Security

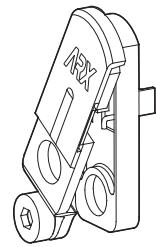
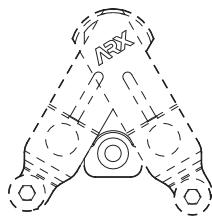
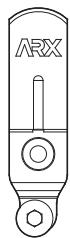


SRH SRW



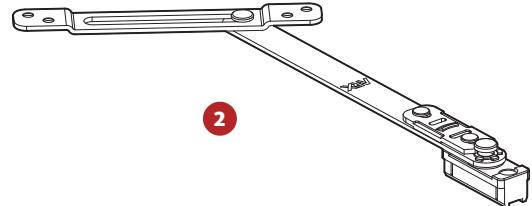
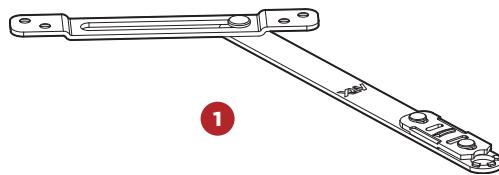
(mm)	(mm)	L (mm)	(mm)	(mm)	(mm)	(mm)	Pack.	Material Nr.
801 - 1200	801 - 1200	550	105	499	•	•	2	4
1201 - 1400	1201 - 1400	850	105	799	•	•	2	6
1601 - 2200	•	1550	105	799	1499	•	3	10
2201 - 2400	•	2000	105	799	1499	1949	4	11
							10	1101000
							10	1101002
							10	1101003
							10	1101004

MISHANDLING DEVICE - sash



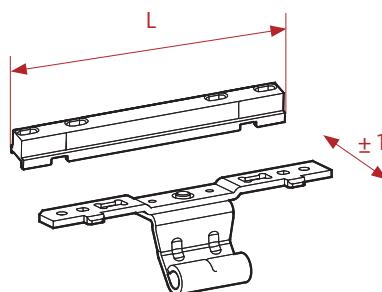
Description	Pack.	Material Nr.
MISHANDLING DEVICE - SASH	1	200 1093907

TILT STAY



Type	Description	Pack.	Material Nr.
1	TILT STAY	5	1099152
2	TILT STAY GROOVE	7	1099154

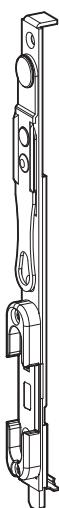
REBATE CENTRE HINGE



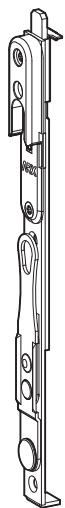
Description	L (mm)	Pack.	Material Nr.	(mm)
SYSTEM 12/18-9 adjustable	136	50	1093896	420 - 1200
SYSTEM 12/20-9 adjustable	136	50	1093897	1201 - 2200
SYSTEM 12/18-13 adjustable	136	50	1096617	2201 - 2400
SYSTEM 12/20-13 adjustable	136	50	1096618	2
SPACER	136	100	1094661	3
				4

SHOOTBOLT

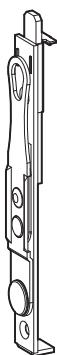
Opposite hardware groove



1



2

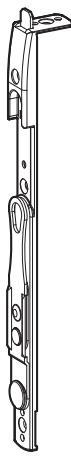


3

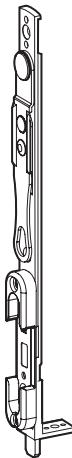


Type	Description	L (mm)	Pack.	Material Nr.
1	T&T SHOOTBOLT	230	3* (2)	50 1083252
2	SHOOTBOLT WITH STRIKER	230	3* (2)	50 1083253
3	SHOOTBOLT WITHOUT STRIKER	140	2	100 1083254

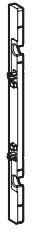
Shootbolt



1



2



3



4

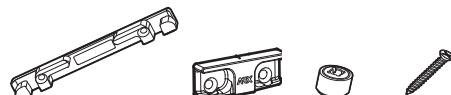
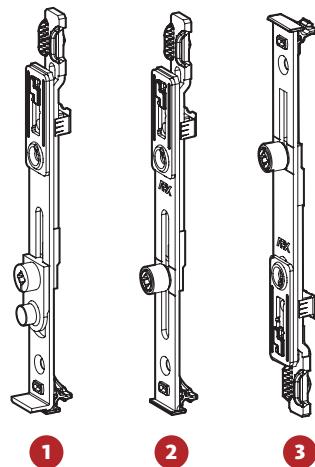
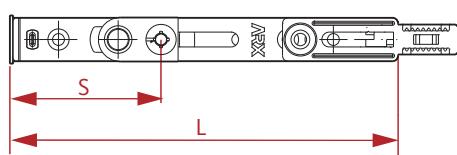


Type	Description	L (mm)	Pack.	Material Nr.
1	SHOOTBOLT - 18 mm	230	4* (3)	50 1093890
2	T&T SHOOTBOLT - 18 mm	230	4* (3)	50 1093889
3	PACKER 7/8	•	•	500 1093891
4	PACKER 20 mm	•	•	2000 1101491

* without the use of centre lock

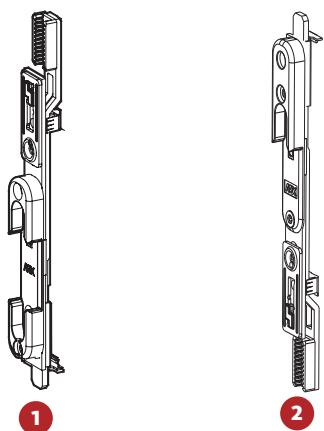
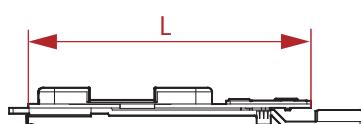
(x) number of screws with the use of centre lock/T&T corner drive

LOCK BOLT



Type	Description	L (mm)		S (mm)	Pack.	Material Nr.
1	TILT LOCK BOLT < 1000	140	1	•	3*(2)	100
	TILT LOCK BOLT > 1000	140	1	•	3*(2)	100
2	TILT LOCK BOLT 140	140	•	1	53,5	3*(2)
3	TILT LOCK BOLT 140/90	140	•	1	53,5	3*(2)
					100	1102395

FRENCH WINDOW ESPAGNOLETTE EXTENSION

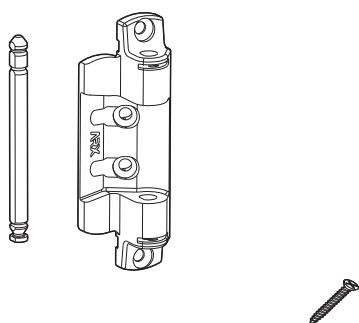


	Description	L (mm)		Pack.	Material Nr.
1	T&T EXTENSION FRENCH ESPAGNOLETTE M 11 mm	140	3* (2)	50	1102621
2	FRENCH ESPAGNOLETTE CONNECTOR 11 mm TOP	140	3* (2)	50	1110929

* without the use of centre lock

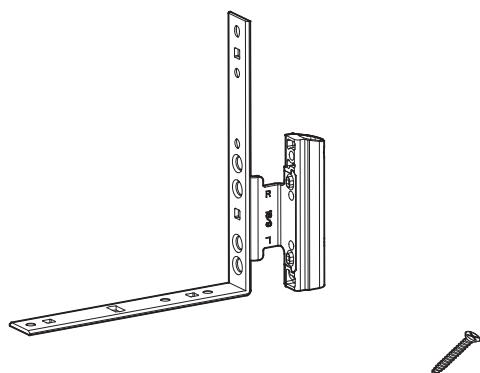
(x) number of screws with the use of centre lock/T&T corner drive

STAY BEARING WITH PIN



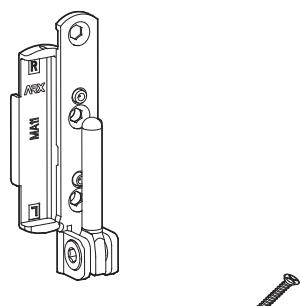
System	Description			Pack.	Material Nr.
SYSTEM 12/18-9 (13)	L&R	Stay bearing with pin	4	100	1107263
SYSTEM 12/20-9 (13)	L&R	Stay bearing with pin	4	100	1107264

CORNER HINGE



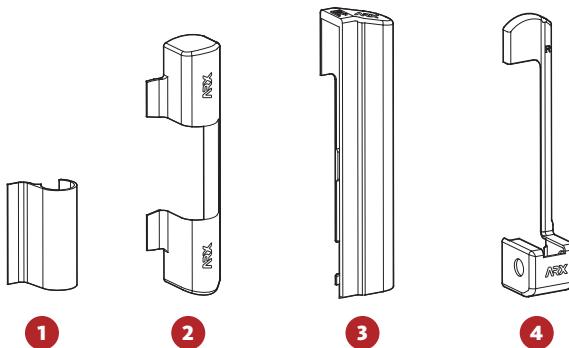
Description	Position	Pack.	Material Nr.
SYSTEM 12/18-9	L	40	1083245
	R	40	1083246
SYSTEM 12/20-9	L	40	1093883
	R	40	1093884
SYSTEM 12/18-13	L	40	1096619
	R	40	1096621
SYSTEM 12/20-13	L	40	1096622
	R	40	1096623

CORNER PIVOT REST



Description	Position	Pack.	Material Nr.
SYSTEM 12/18-9 (13)	L	100	1083248
	R	100	1083249
SYSTEM 12/20-9 (13)	L	100	1093886
	R	100	1093887

COVER CAP



Type	Description	RAL	Pack.	Position	Material Nr.
1 COVER CAP STAY ARM	RAL 9016 - White	500			1086967
	RAL 8019 - Grey brown	500			1093903
	RAL 1004 - Gold matt	500			1095448
	RAL 8017 - Bronze	500			1095450
	RAL 9006 - Silver	500			1093929
	RAL 9005 - Black	500			1112918
	Dark Bronze	500			1095449
	Titan matt	500			1103970
	Gold	500			1109410
2 COVER CAP STAY BEARING	RAL 9016 - White	100			1107265
	RAL 8019 - Grey brown	100			1107266
	RAL 1004 - Gold matt	100			1095445
	RAL 8017 - Bronze	100			1107268
	RAL 9006 - Silver	100			1107267
	RAL 9005 - Black	100			1112917
	Dark Bronze	100			1095446
	Titan matt	100			1103990
	Gold	100			1109409
3 COVER CAP CORNER HINGE	RAL 9016 - White	150	L		1086970
			R		1086971
	RAL 8019 - Grey brown	150	L		1093898
			R		1093899
	RAL 1004 - Gold matt	150	L		1095433
			R		1095434
	RAL 8017 - Bronze	150	L		1095437
			R		1095438
	RAL 9006 - Silver	150	L		1093920
			R		1093921
4 COVER CAP CORNER PIVOT REST	RAL 9005 - Black	150	L		1112913
			R		1112914
	Dark Bronze	150	L		1095435
			R		1095436
	Titan mat	150	L		1103983
			R		1103984
	Gold	150	L		1109405
			R		1109406
	RAL 9016 - White	200	L		1086968
			R		1086969
4 COVER CAP CORNER PIVOT REST	RAL 8019 - Grey brown	200	L		1093900
			R		1093901
	RAL 1004 - Gold matt	200	L		1095439
			R		1095440
	RAL 8017 - Bronze	200	L		1095443
			R		1095444
	RAL 9006 - Silver	200	L		1093924
			R		1093925
	RAL 9005 - Black	200	L		1112915
			R		1112916
4 COVER CAP CORNER PIVOT REST	Dark Bronze	200	L		1095441
			R		1095442
	Titan mat	200	L		1103981
			R		1103982
4 COVER CAP CORNER PIVOT REST	Gold	200	L		1109407
			R		1109408

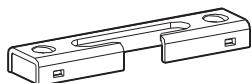
STRIKERS

T&T STRIKER



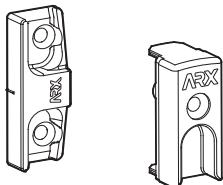
T&T STRIKER	Pack.	Material Nr.
T&T STRIKER 18 mm	250	1083200
T&T STRIKER 20 mm	250	1083199
T&T STRIKER 7/8	250	1083201

T&Ti STRIKER SECURITY



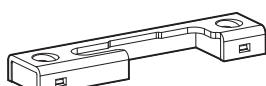
T&Ti SECURITY STRIKER	Pos.	Pack.	Material Nr.
18 mm	L	100	1104544
	R	100	1104545
20 mm	L	100	1104546
	R	100	1095426

STRIKER



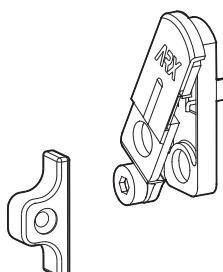
STRIKER	Pack.	Material Nr.
STRIKER 18 mm	300	1083212
STRIKER 20 mm	300	1083211
STRIKER 7/8	300	1083213
OPPOSING HARDWARE GROOVE		
STRIKER OHG	300	1083207

SECURITY STRIKER



SECURITY STRIKER	Pos.	Pack.	Material Nr.
18 mm	L	250	1085745
	R	250	1083222
20 mm	L	250	1085744
	R	250	1083221
7/8	L	250	1085746
	R	250	1083223

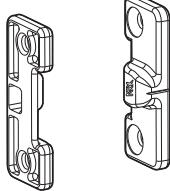
MISHANDLING DEVICE



MISHANDLING DEVICE - SASH	Pack.	Material Nr.
MISHANDLING DEVICE - SASH	300	1093907
MISHANDLING DEVICE - FRAME		
MISHANDLING DEVICE - FRAME 18 mm	300	1093905
MISHANDLING DEVICE - FRAME 20 mm	300	1093904
MISHANDLING DEVICE - FRAME 7/8	300	1093906
OPPOSING HARDWARE GROOVE		
MISHANDLING DEVICE - FRAME OHG	300	1083293
MISHANDLING DEVICE - FRAME OHG FOR ESPAGNOLETTE	300	1083295

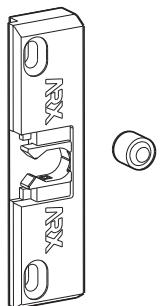
CONCEALED CENTRE CLOSER

SASH FRAME



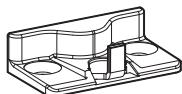
CONCEALED CENTRE CLOSER - SASH	Pack.	Material Nr.
CONCEALED CENTRE CLOSER	300	1093911
CONCEALED CENTRE CLOSER NUT	300	1099049
CONCEALED CENTRE CLOSER - FRAME	Pack.	Material Nr.
CONCEALED CENTRE CLOSER - FRAME 18 mm	300	1093908
CONCEALED CENTRE CLOSER - FRAME 20 mm	300	1093909
CONCEALED CENTRE CLOSER - FRAME 7/8	500	1093910

BULLET CATCH



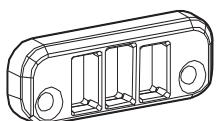
BULLET CATCH CAM - SASH	Pack.	Material Nr.
BULLET CATCH CAM - SASH	100	1083305
BULLET CATCH - FRAME	Pack.	Material Nr.
BULLET CATCH - FRAME 18 mm	100	1093912
BULLET CATCH - FRAME 20 mm	100	1093913
BULLET CATCH - FRAME 7/8 mm	100	1093914
BULLET CATCH - FRAME OHG FOR ESPAGNOLETTE	100	1093200
BULLET CATCH - OHG	100	1107887

NIGHT VENT STRIKER



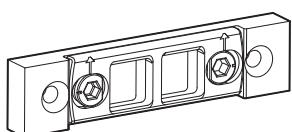
NIGHT VENT STRIKER - FRAME	Pack.	Material Nr.
NIGHT VENT STRIKER - FRAME 18 mm	100	1096667
NIGHT VENT STRIKER - FRAME 20 mm	100	1096668
NIGHT VENT STRIKER - FRAME 7/8	100	1096670

STRIKER - second sash



STRIKER 2-SASH	Pack.	Material Nr.
STRIKER 2 - SASH 18 mm	300	1083233
STRIKER 2 - SASH 20 mm	300	1083231
STRIKER 2 - SASH 7/8	300	1083232

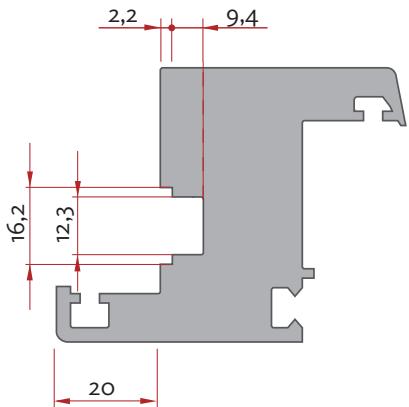
SHOOTBOLT STRIKER - second sash



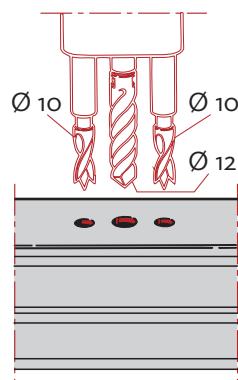
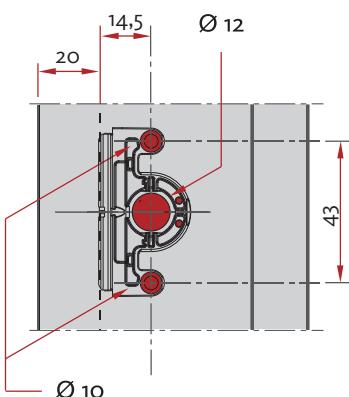
SHOOTBOLT STRIKER	Pack.	Material Nr.
Shootbolt striker - Adjustable 18 mm	300	1106242
DOUBLE - Shootbolt striker - Adjustable 4 mm 1 HOLE	300	1106243
DOUBLE - Shootbolt striker - Adjustable 18 mm	300	1105375
DOUBLE - Shootbolt striker - Adjustable 4 mm 2 HOLES	300	1105376
DOUBLE - Shootbolt striker - Adjustable 7/8	300	1106111

SASH PROFILE, WINDOW HANDLE, DRILL HOLES AND INSTALLATION

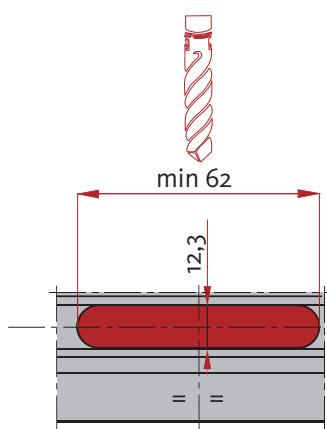
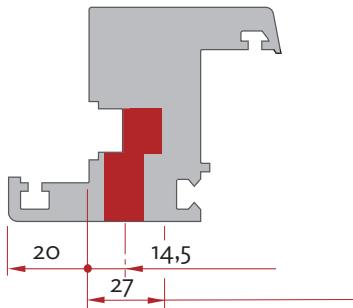
SASH CROSS SECTION DIMENSION FOR HARDWARE



WINDOW-HANDLE DRILLING DRILL HOLES FOR THE WINDOW-HANDLE



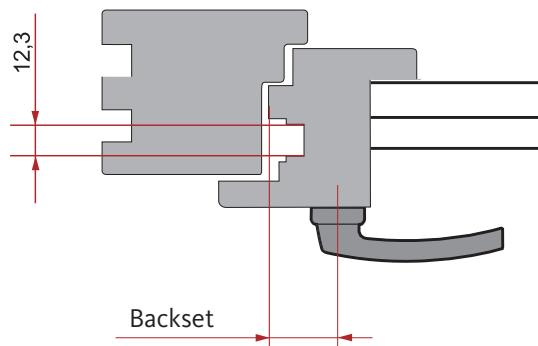
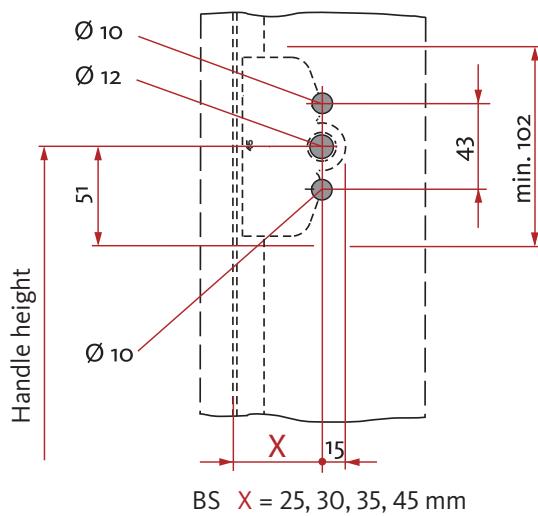
ROUTING ESPAGNOLETTE GEAR-CASING



SASH PROFILE, WINDOW HANDLE, DRILL HOLES AND INSTALLATION

T&T ESPAGNOLETTE M – larger backsets

BS = 25, 30, 35, 45 mm

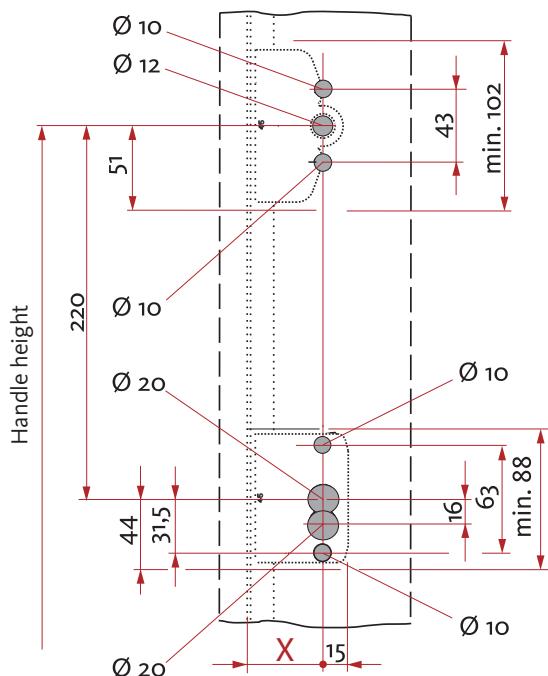


SUITABLE FOR WIDER DOOR AND BALCONY DOOR PROFILES.

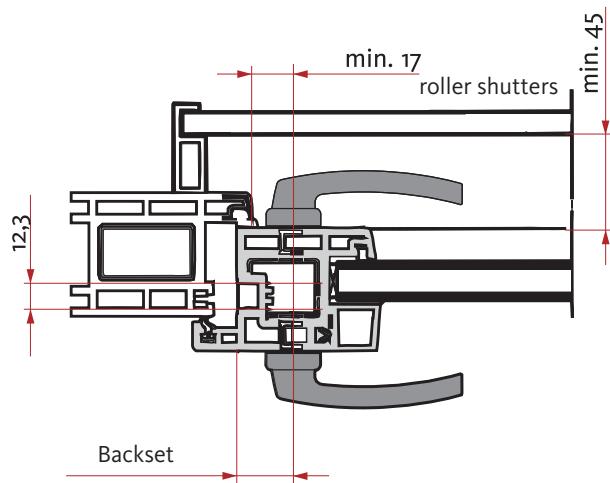
SASH PROFILE, WINDOW HANDLE, DRILL HOLES AND INSTALLATION

T&T ESPAGNOLETTE M – larger backsets, lockable

BS = 25, 30, 35, 45 mm



BS X = 25, 30, 35, 45 mm



SUITABLE FOR WIDER DOOR AND BALCONY DOOR PROFILES.

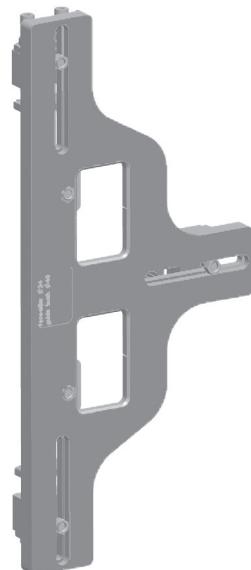
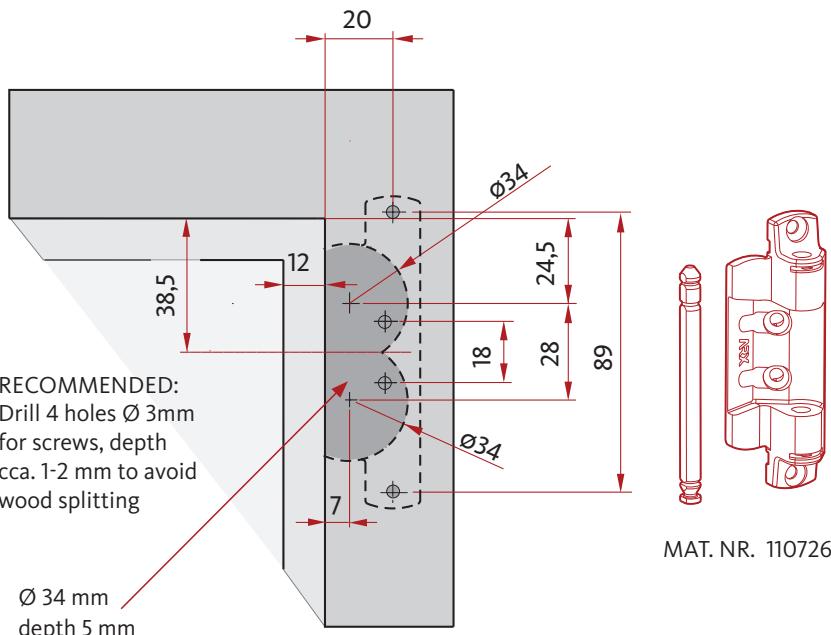
FRAME DRILLING DIMENSIONS

DRILLING JIG - wood

DRILLING DIMENSIONS - FRAME 12/18-9 12/18-13

SASH STAY BEARING
150 KG

DRILLING JIG - FRAME
SASH STAY BEARING/CORNER PIVOT REST

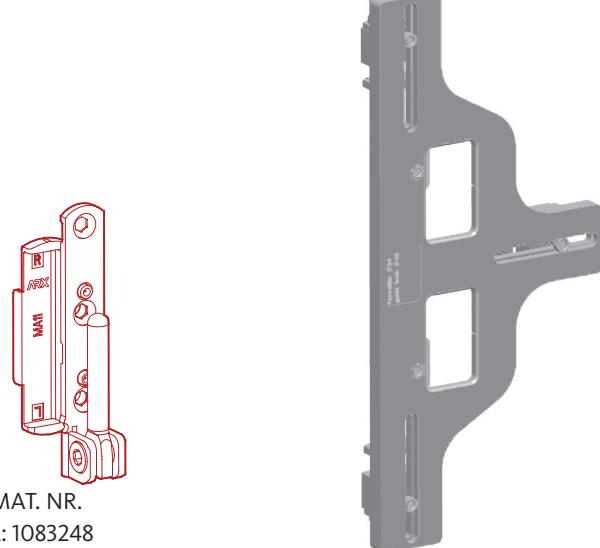
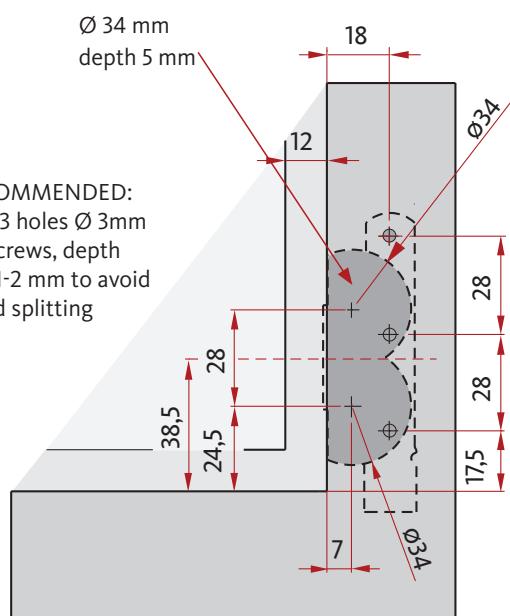


WHEN USING AN 18 mm HARDWARE
OVERLAP, READJUST THE DRILLING JIG.

DRILLING DIMENSIONS - FRAME 12/18-9 12/18-13

CORNER PIVOT REST
150 KG

DRILLING JIG - FRAME
SASH STAY BEARING/CORNER PIVOT REST

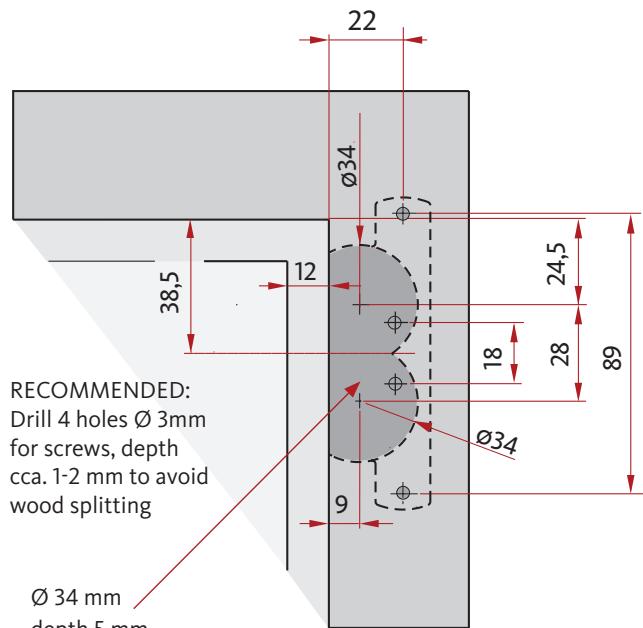


WHEN USING AN 18 mm HARDWARE
OVERLAP, READJUST THE DRILLING JIG.

FRAME DRILLING DIMENSIONS

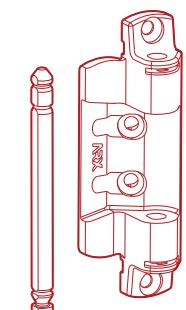
DRILLING JIGS - wood

DRILLING DIMENSIONS - FRAME 12/20-9 12/20-13

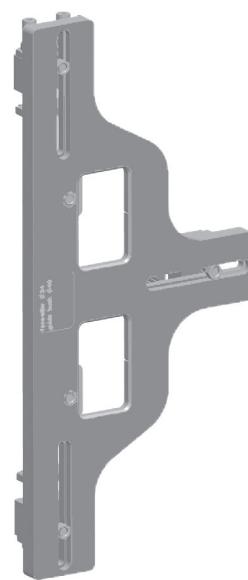


SASH STAY BEARING
150 KG

DRILLING JIG - FRAME
SASH STAY BEARING/CORNER PIVOT REST



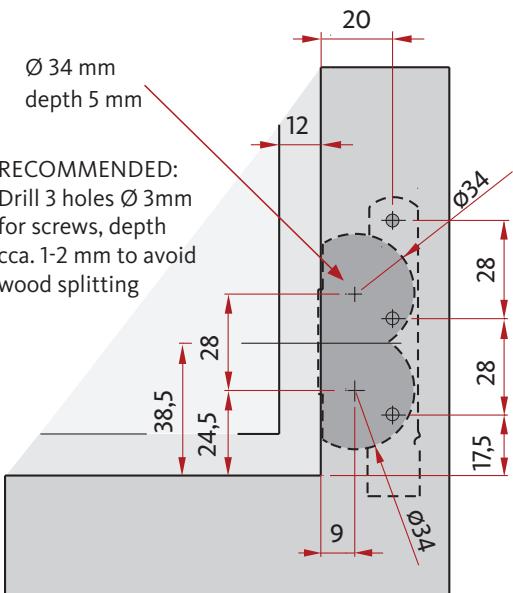
MAT. NR. 1107264



DRILLING JIG-FRAME
MAT. NR. 1094660

WHEN USING AN 18 mm HARDWARE
OVERLAP, READJUST THE DRILLING JIG.

DRILLING DIMENSIONS - FRAME 12/20-9 12/20-13

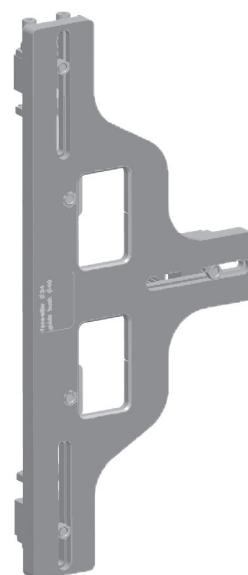


CORNER PIVOT REST
150 KG

DRILLING JIG - FRAME
SASH STAY BEARING/CORNER PIVOT REST



MAT. NR.
L: 1093886
R: 1093887

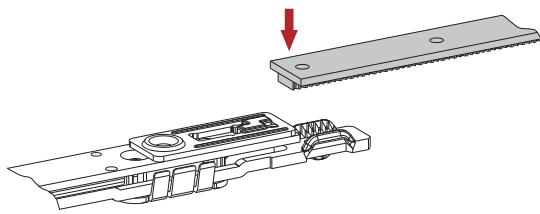


DRILLING JIG-FRAME
MAT. NR. 1094660

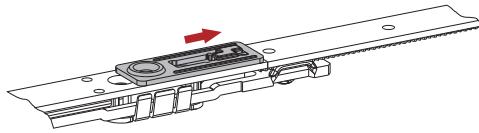
WHEN USING AN 18 mm HARDWARE
OVERLAP, READJUST THE DRILLING JIG.

INSTALLATION INSTRUCTIONS

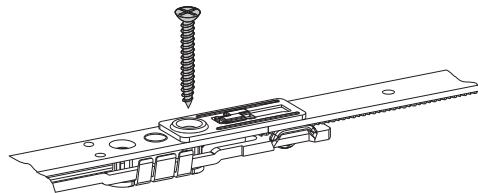
Flat shortening + installation



Move the slider in the locked position



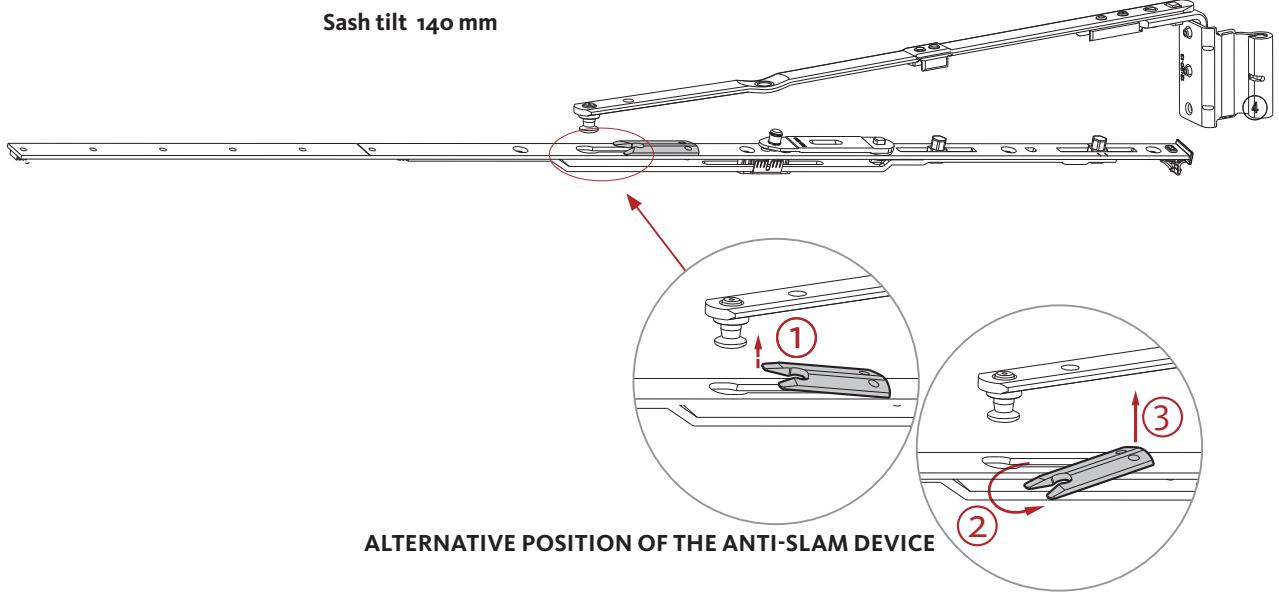
Screw the slider



INSTALLATION INSTRUCTIONS FOR STAY ARM

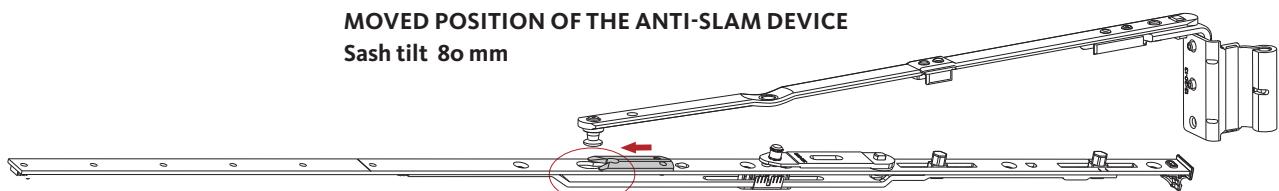
The position of the Anti-slam device

BASIC POSITION OF THE ANTI-SLAM DEVICE
Sash tilt 140 mm



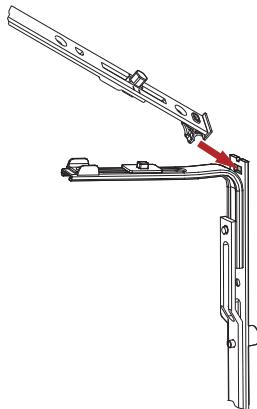
ALTERNATIVE POSITION OF THE ANTI-SLAM DEVICE

MOVED POSITION OF THE ANTI-SLAM DEVICE
Sash tilt 80 mm

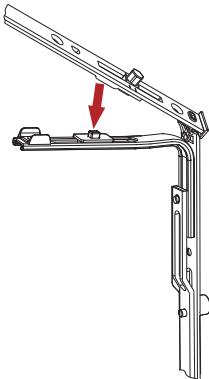


INSTALLATION INSTRUCTIONS

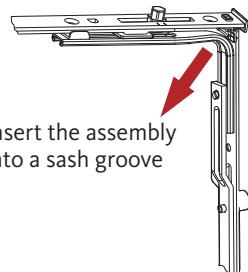
Stay guide, Centre lock and T&Ti corner drive



A) Insert connecting bracket into the hole of a centre lock

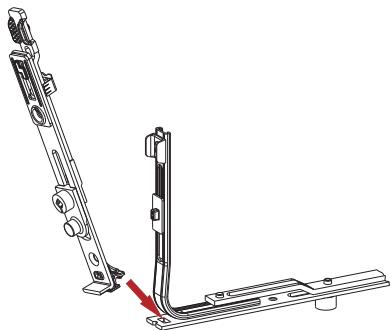


B) Clamp the straightened stay guide connector into the hole of a driving rod

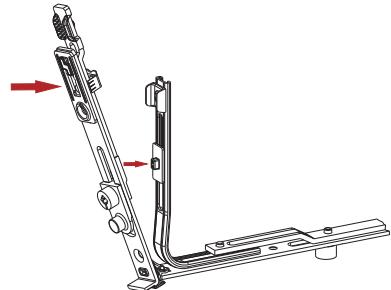


Insert the assembly into a sash groove

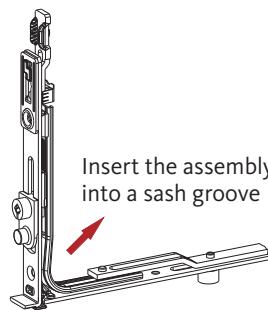
Espagnolette, Tilt lock bolt, Extension, Centre lock, T&Ti Corner drive



A) Insert the connecting bracket into the hole of a centre lock



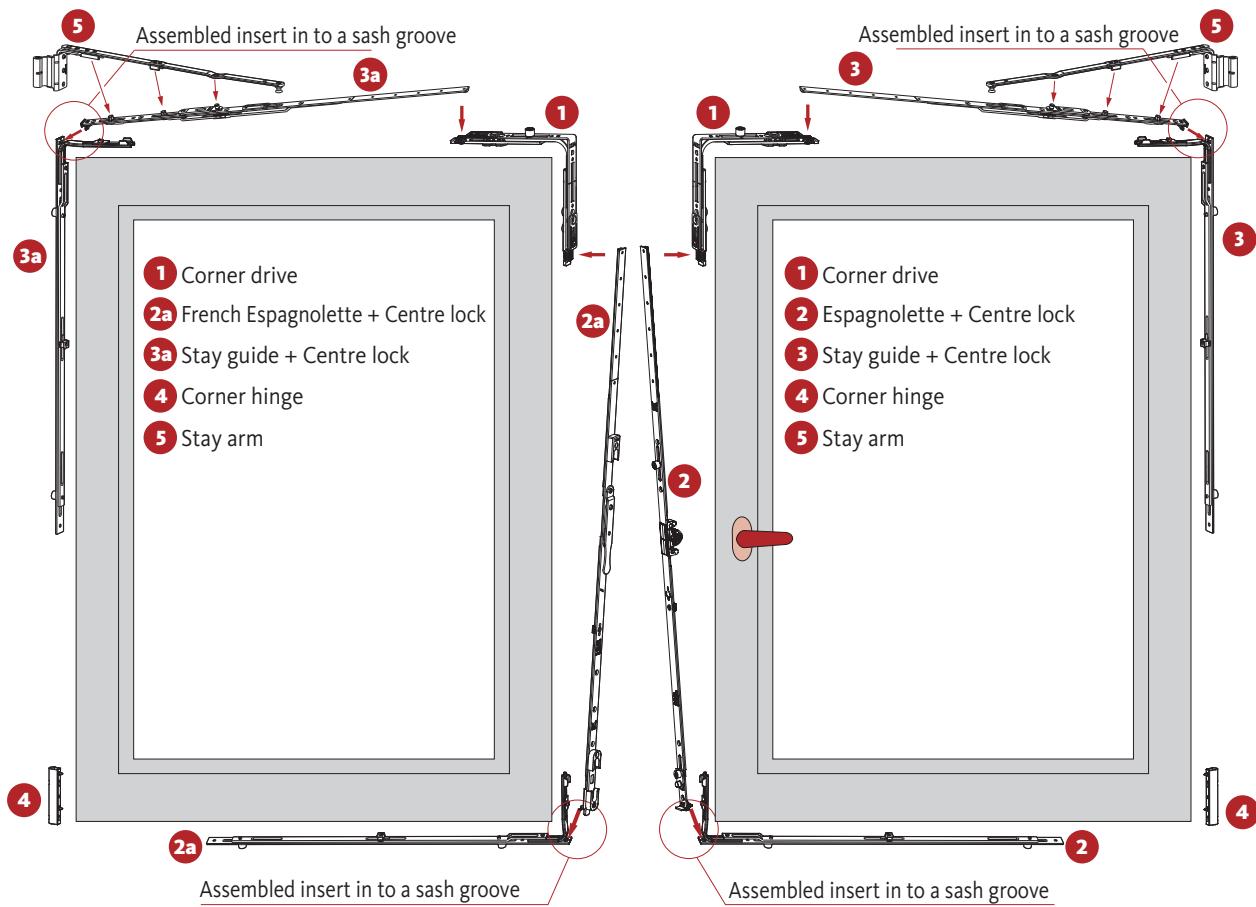
B) Clamp the straightened tilt lock bolt connector into the hole of a driving rod



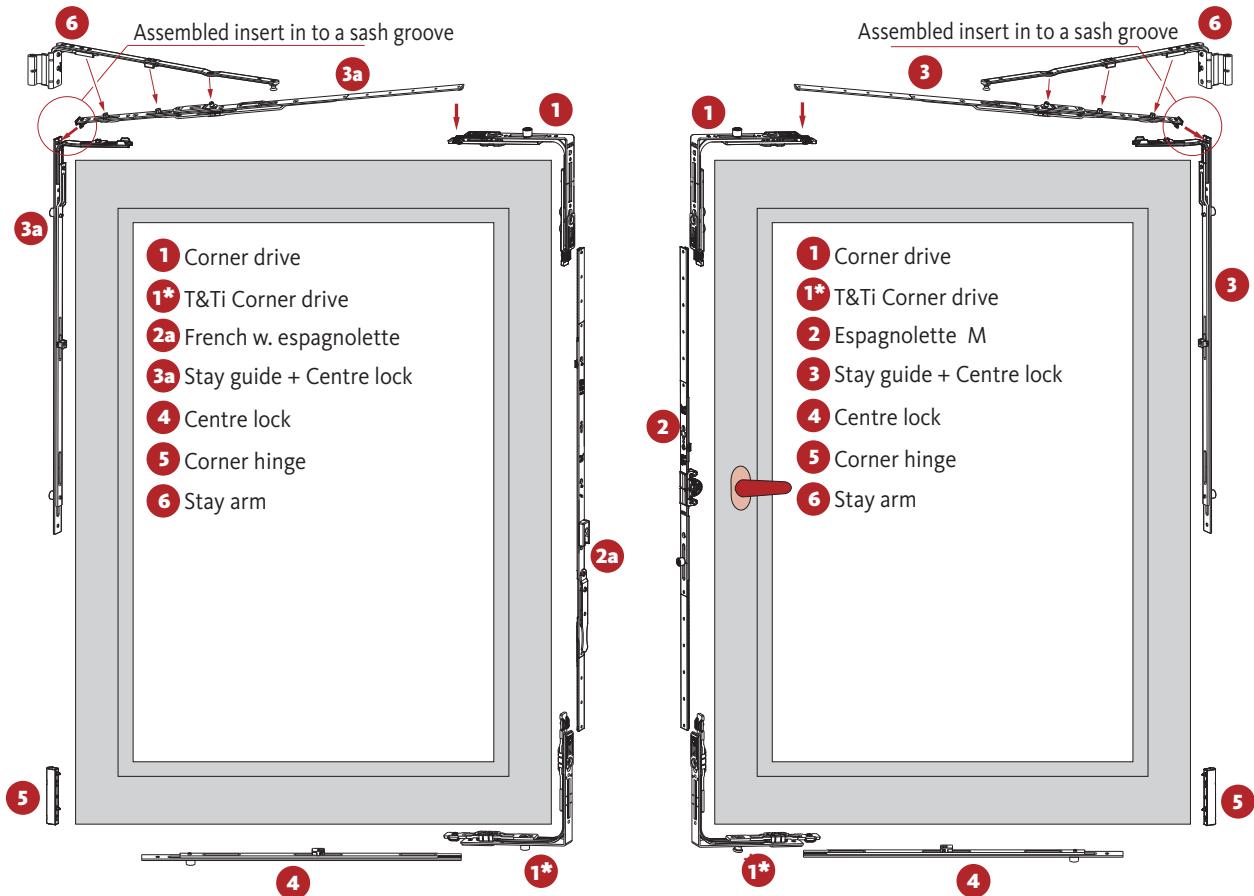
Insert the assembly into a sash groove

INSTALLATION INSTRUCTIONS

FIXED HANDLE HEIGHT

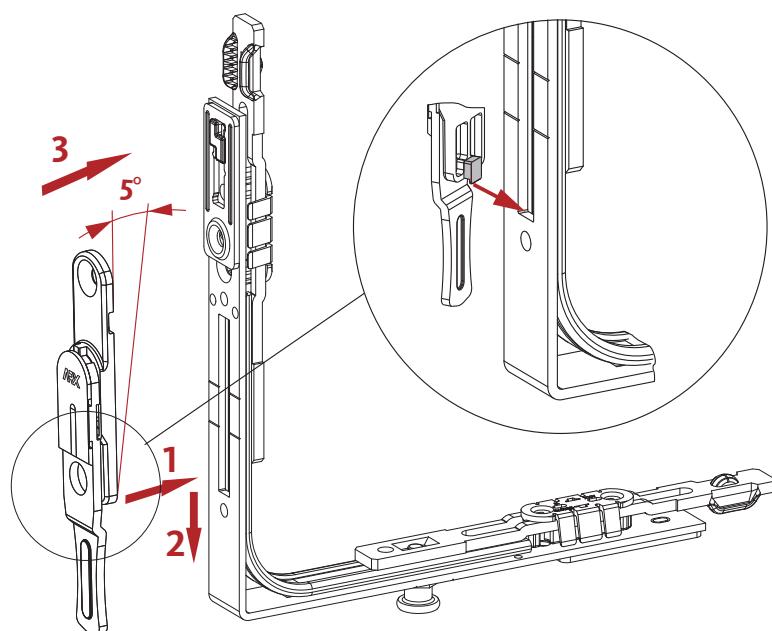


CENTERED / VARIABLE HANDLE HEIGHT

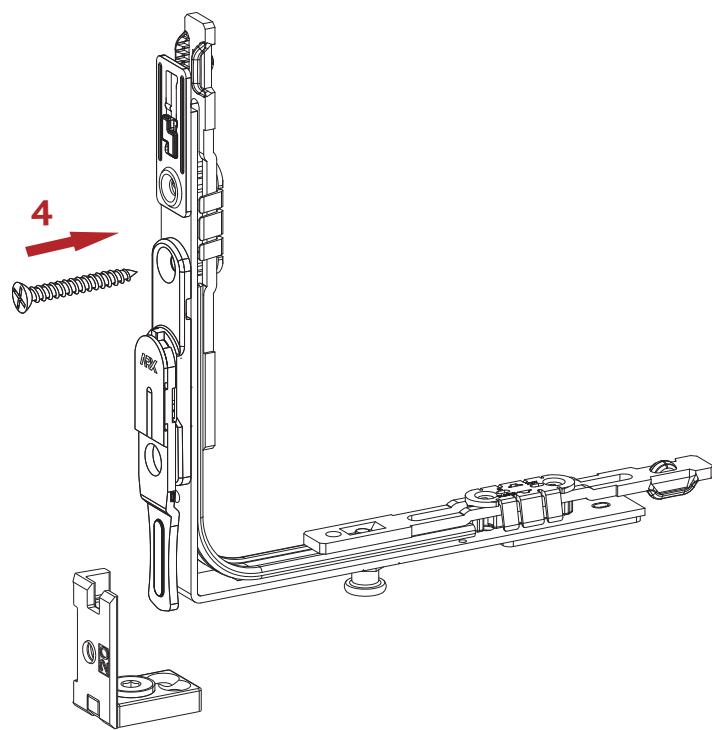


INSTRUCTIONS FOR ASSEMBLY SET ARCHED WINDOW

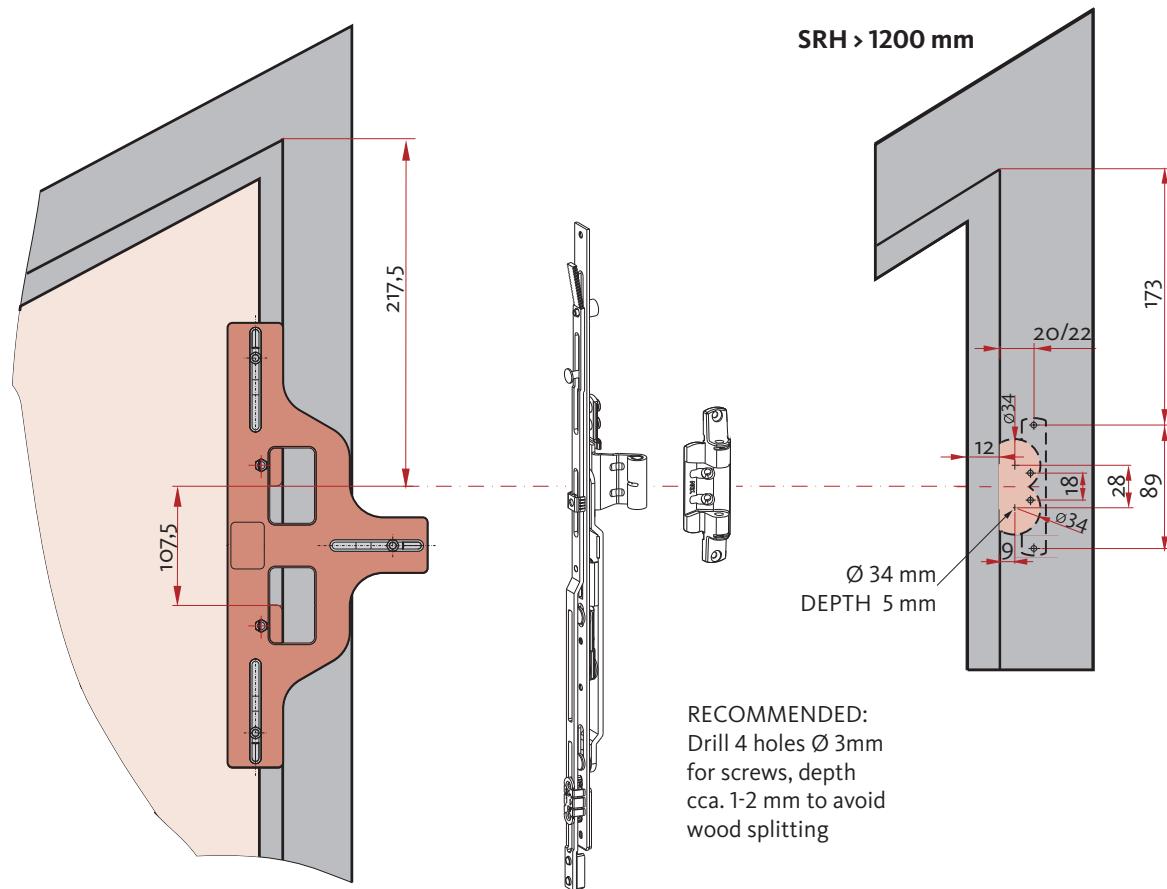
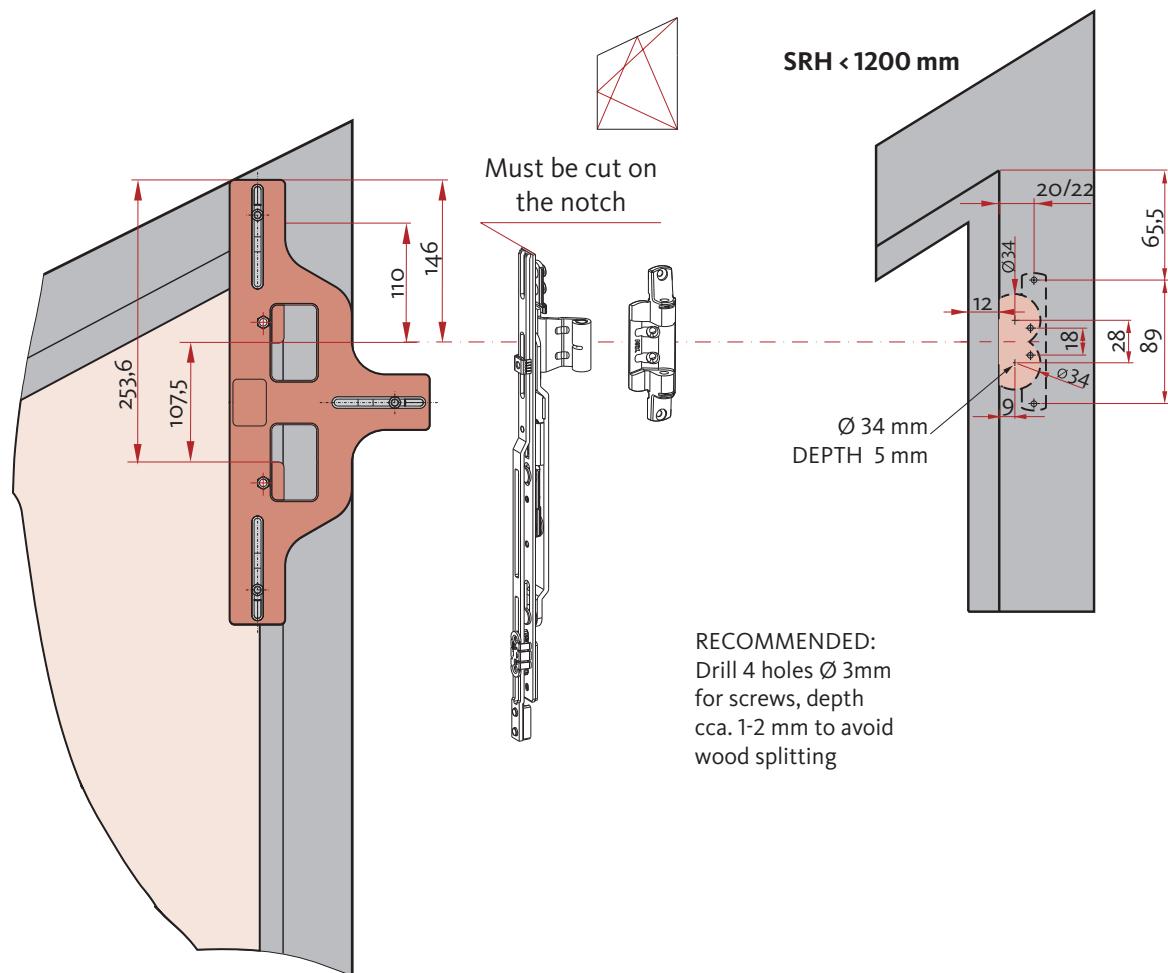
1.



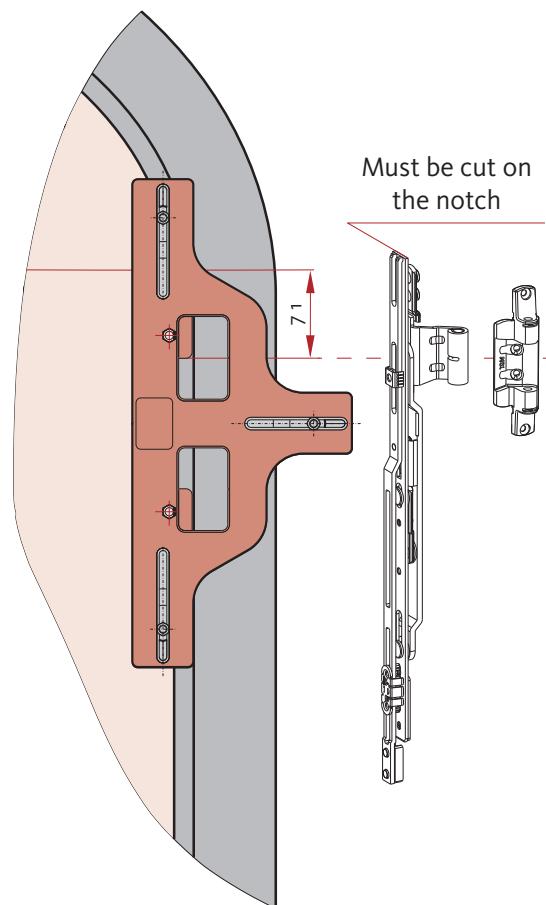
2.



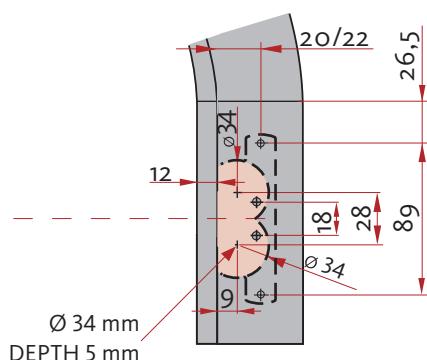
INSTALLATION INSTRUCTIONS PITCHED WINDOW



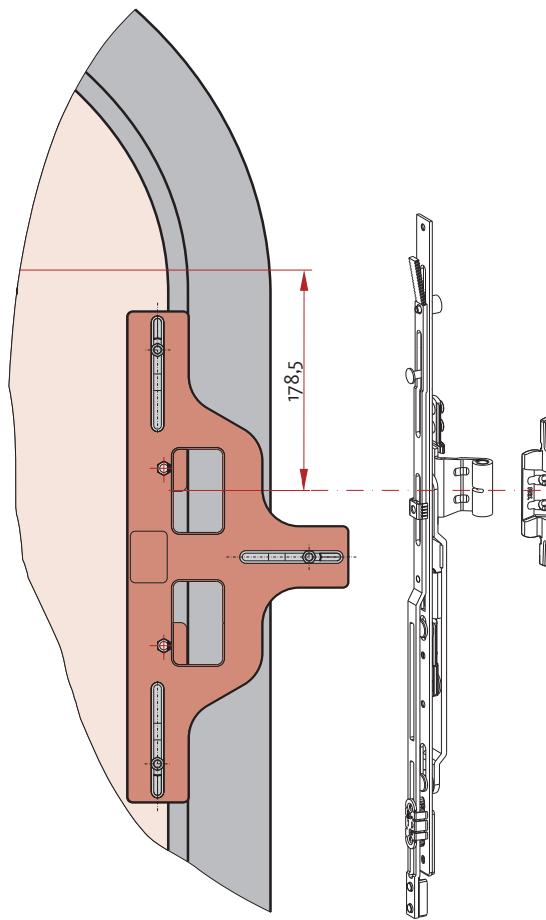
INSTALLATION INSTRUCTIONS ARCHED WINDOW



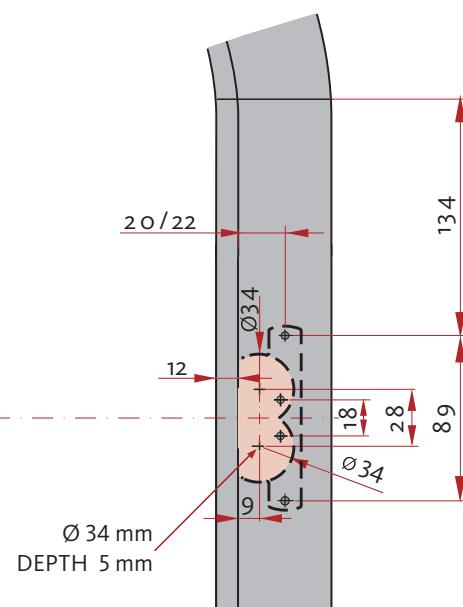
SRH < 1200 mm



RECOMMENDED:
Drill 4 holes Ø 3mm
for screws, depth
cca. 1-2 mm to avoid
wood splitting

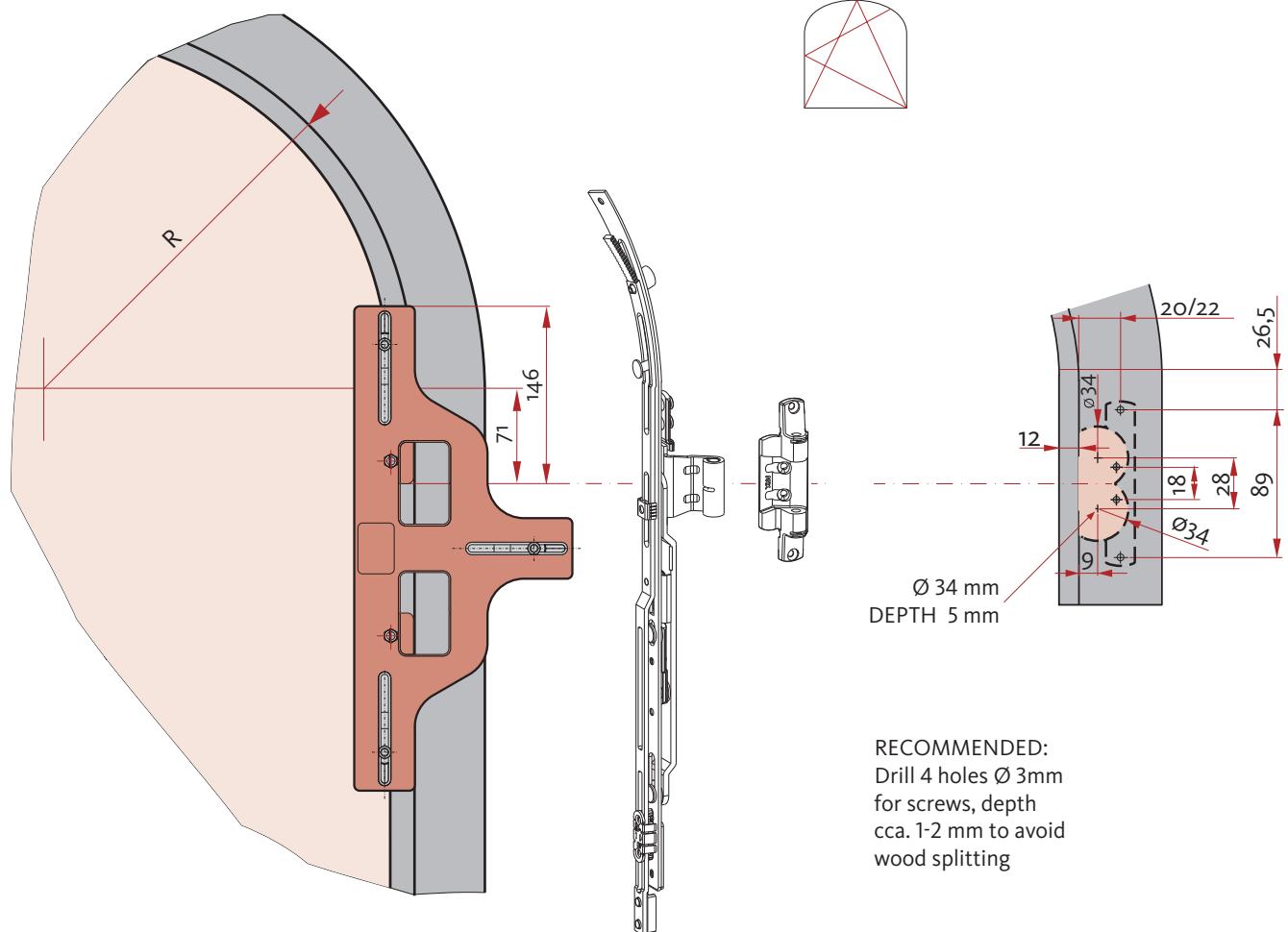


SRH > 1200 mm



RECOMMENDED:
Drill 4 holes Ø 3mm
for screws, depth
cca. 1-2 mm to avoid
wood splitting

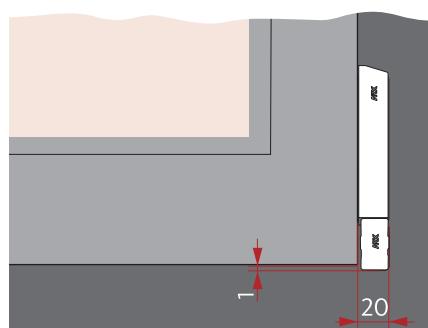
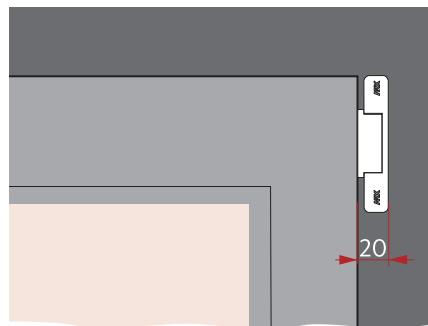
INSTALLATION INSTRUCTIONS ARCHED WINDOW



RECOMMENDED:
Drill 4 holes Ø 3mm
for screws, depth
cca. 1-2 mm to avoid
wood splitting

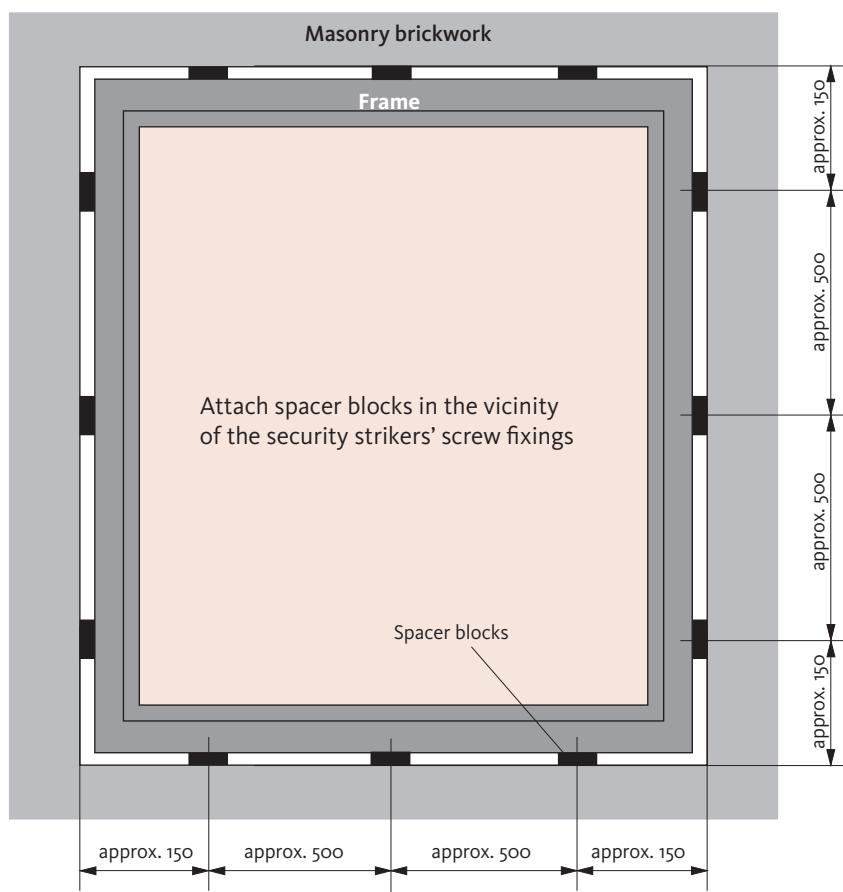
FRAME CLEARANCES (include cover cup)

Sash weight 150 kg



INSTALLATION

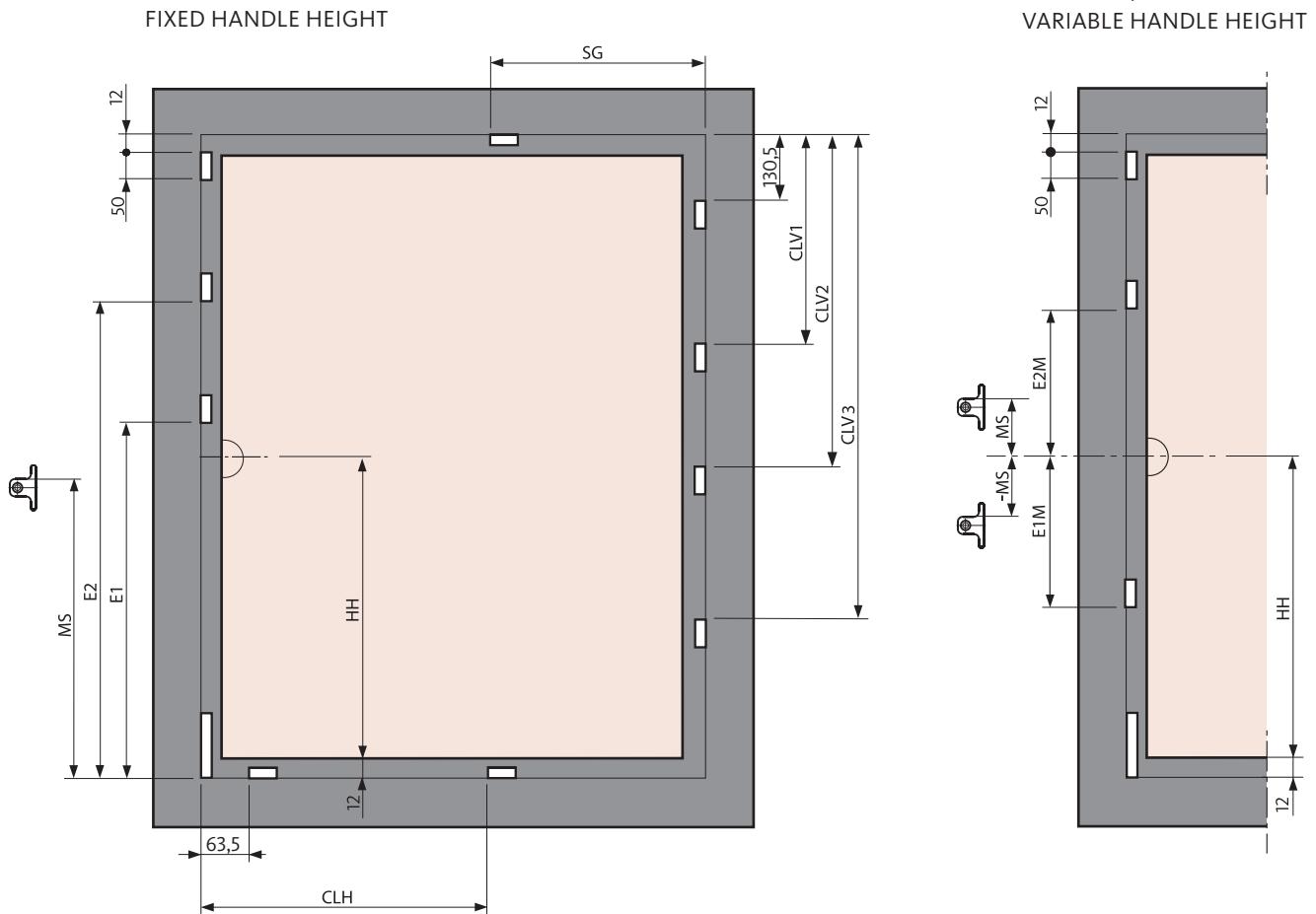
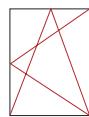
FIXING SUGGESTION FOR THE INSTALLATION OF WINDOWS



MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TIILT&TURN HARDWARE - BASIC



T&T ESPAGNOLETTE, FIXED HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1	E2	MS
320-460	120	320	•	•	•
461-600	170	460	•	•	230,5
601-800	263	660	•	•	145,5
801-1000	413	860	•	•	295,5
801-1000	413	860	549,5	•	295,5
1001-1200	513	1060	699,5	•	395,5
1201-1400	563	1260	699,5	•	395,5
1401-1600	563	1460	699,5	•	395,5
1601-1800	563	1660	699,5	•	395,5
1601-1800	1000	1660	699,5	•	395,5
1801-2000	1000	1860	699,5	1369,5	1128,5
2001-2200	1000	2060	699,5	1369,5	1128,5
2201-2400	1000	2260	699,5	1369,5	1128,5

CENTRE LOCK - VERTICAL

Sash rebate height	Lenght	CLV1	CLV2	CLV3
600-800	350	324,5	•	•
801-1200	550	524,5	•	•
1201-1600	850	824,5	•	•
1601-2200	1550	824,5	1524,5	•
2201-2400	2000	824,5	1524,5	1974,5

CENTRE LOCK - HORIZONTAL

Sash rebate width	Lenght	CLH
600-800	350	257,5
801-1200	550	457,5
1201-1400	850	757,5

STAY GUIDE

Sash rebate width	Lenght	SG
250-410	290	•
411-610	470	•
611-810	670	•
811-1010	870	550,5
1011-1210	1070	611,5
1211-1400	1270	811,5

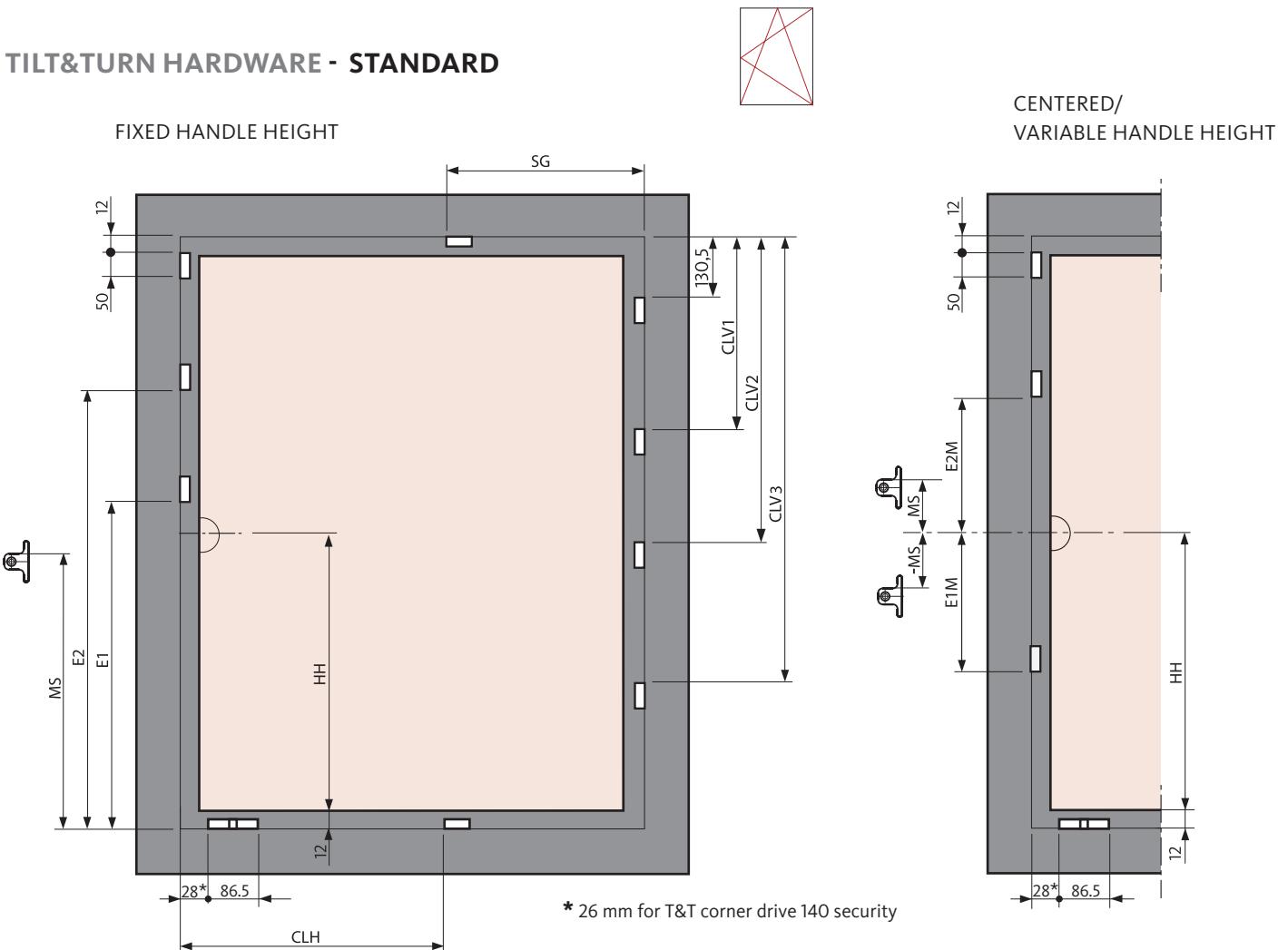
T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1M	E2M	MS
420-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-2000	801-1000	1720	302,5	317,5	- 122,5
2001-2400	1001-1200	2120	302,5	317,5	- 122,5

MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TILT&TURN HARDWARE - STANDARD



T&Ti ESPAGNOLETTE, FIXED HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1	E2	MS
320-460	120	320	•	•	•
461-600	170	460	•	•	230,5
601-800	263	660	•	•	145,5
801-1000	413	860	•	•	295,5
801-1000	413	860	549,5	•	295,5
1001-1200	513	1060	699,5	•	395,5
1201-1400	563	1260	699,5	•	395,5
1401-1600	563	1460	699,5	•	395,5
1601-1800	563	1660	699,5	•	395,5
1601-1800	1000	1660	699,5	•	395,5
1801-2000	1000	1860	699,5	1369,5	1128,5
2001-2200	1000	2060	699,5	1369,5	1128,5
2201-2400	1000	2260	699,5	1369,5	1128,5

CENTRE LOCK - VERTICAL

Sash rebate height	Lenght	CLV1	CLV2	CLV3
600-800	350	324,5	•	•
801-1200	550	524,5	•	•
1201-1600	850	824,5	•	•
1601-2200	1550	824,5	1524,5	•
2201-2400	2000	824,5	1524,5	1974,5

CENTRE LOCK - HORIZONTAL

Sash rebate width	Lenght	CLH
801-1000	400	432,5
1001-1400	600	632,5

STAY GUIDE

Sash rebate width	Lenght	SG
250-410	290	•
411-610	470	•
611-810	670	•
811-1010	870	550,5
1011-1210	1070	611,5
1211-1400	1270	811,5

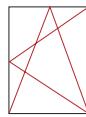
T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1M	E2M	MS
420-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-2000	801-1000	1720	302,5	317,5	- 122,5
2001-2400	1001-1200	2120	302,5	317,5	- 122,5

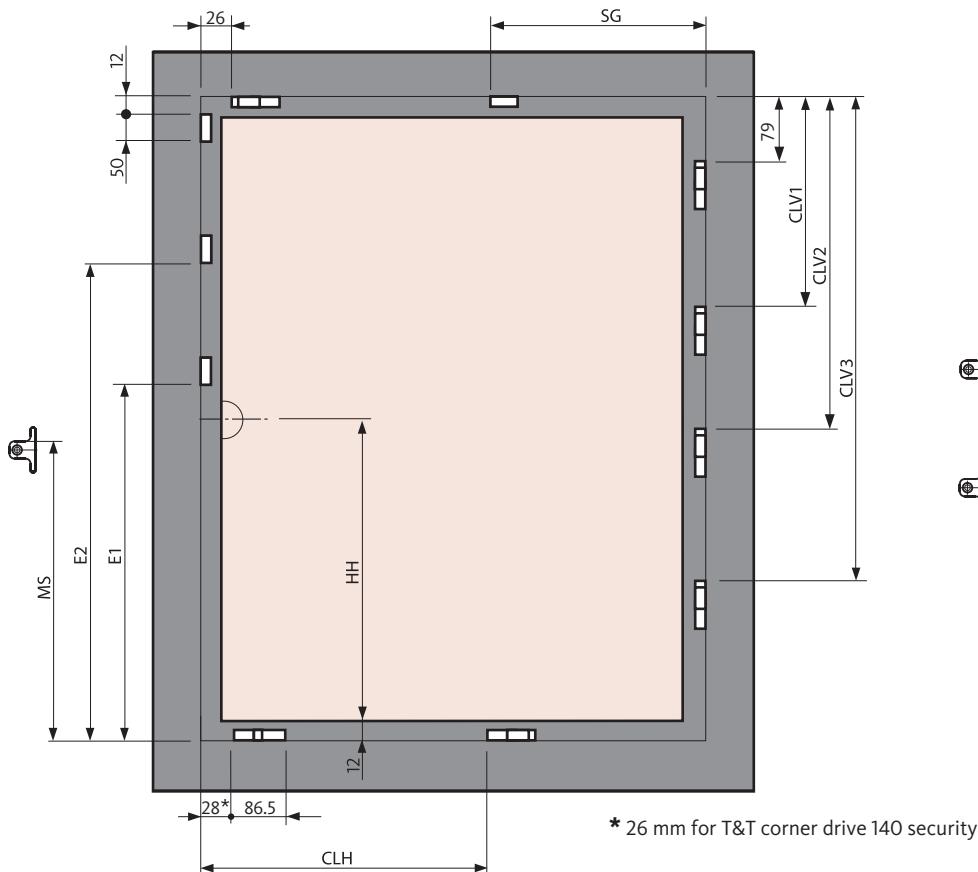
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

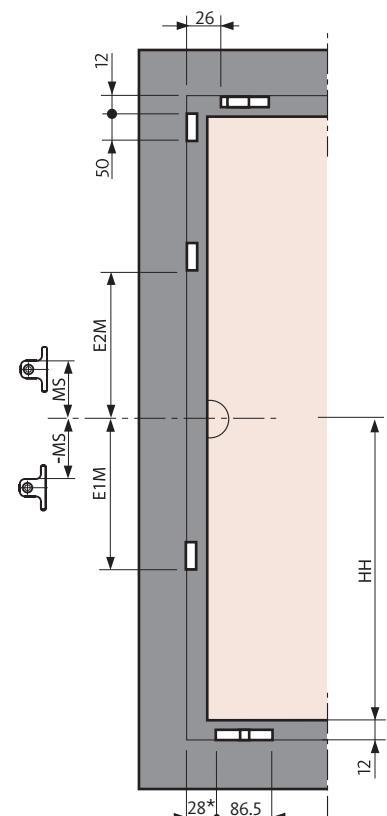
TIET&TURN HARDWARE - SECURITY



FIXED HANDLE HEIGHT



CENTERED/
VARIABLE HANDLE HEIGHT



T&Ti ESPAGNOLETTE, FIXED HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1	E2	MS
320-460	120	320	•	•	•
461-600	170	460	•	•	230,5
601-800	263	660	•	•	145,5
801-1000	413	860	•	•	295,5
801-1000	413	860	549,5	•	295,5
1001-1200	513	1060	699,5	•	395,5
1201-1400	563	1260	699,5	•	395,5
1401-1600	563	1460	699,5	•	395,5
1601-1800	563	1660	699,5	•	395,5
1601-1800	1000	1660	699,5	•	395,5
1801-2000	1000	1860	699,5	1369,5	1128,5
2001-2200	1000	2060	699,5	1369,5	1128,5
2201-2400	1000	2260	699,5	1369,5	1128,5

CENTRE LOCK - VERTICAL

Sash rebate height	Lenght	CLV1	CLV2	CLV3
801-1200	400	488	•	•
1201-1400	600	688	•	•
1401-1800	600+400	688	1088	•
1801-2000	600+600	688	1288	•
2001-2400	2x 600+400	688	1288	1688

CENTRE LOCK - HORIZONTAL

Sash rebate width	Lenght	CLH
600-800	200	248
801-1000	400	448
1001-1400	600	648

STAY GUIDE

Sash rebate width	Lenght	SG
250-410	290	•
411-610	470	•
611-810	670	•
811-1010	870	550,5
1011-1210	1070	611,5
1211-1400	1270	811,5

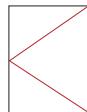
T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1M	E2M	MS
420-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-2000	801-1000	1720	302,5	317,5	- 122,5
2001-2400	1001-1200	2120	302,5	317,5	- 122,5

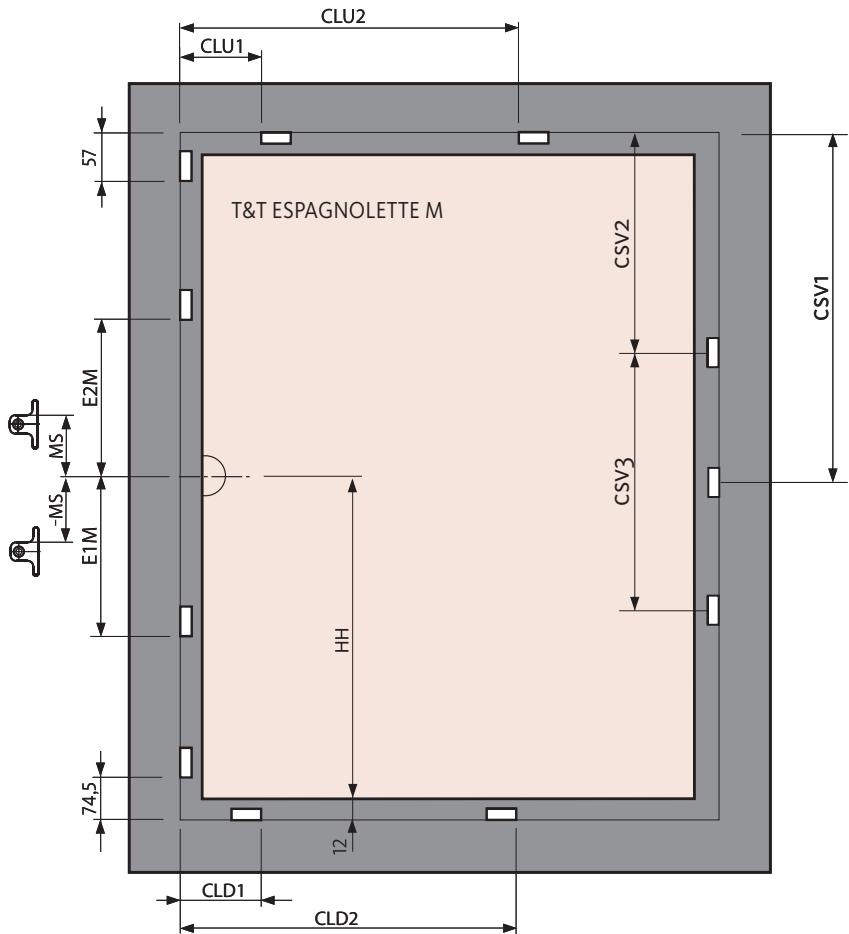
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

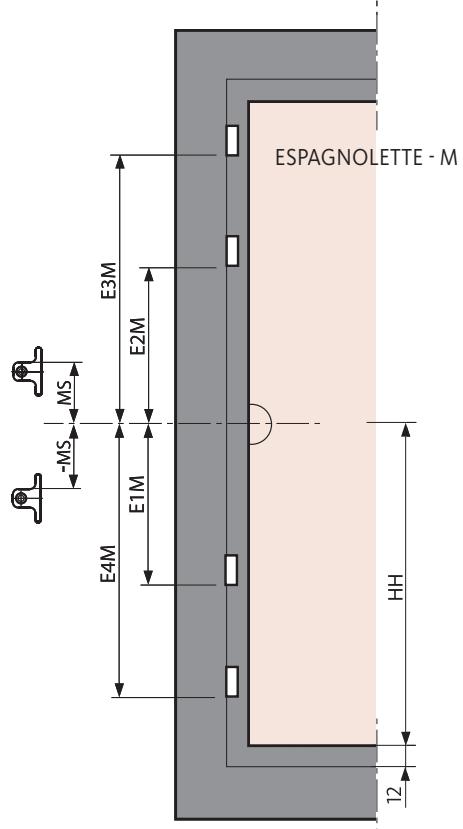
TURN HARDWARE



CENTERED/VARIABLE HANDLE HEIGHT



CENTERED/
VARIABLE HANDLE HEIGHT



T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E 1M	E 2M	MS
420-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-2000	801-1000	1720	302,5	317,5	- 122,5
2001-2400	1001-1200	2120	302,5	317,5	- 122,5

CENTRE LOCK - UP

Sash rebate width	Lenght	CLU1	CLU2
600-800	350	324,5	•
801-1200	550	130,5	524,5
1201-1400	850	130,5	824,5

CENTRE LOCK - DOWN

Sash rebate width	Lenght	CLD1	CLD2
600-800	350	307,5	•
801-1200	550	113,5	507,5
1201-1400	850	113,5	807,5

CONCEALED STRIKER

Sash rebate height	CSV1	CSV2	CSV3
800-1400	FFH/2	•	•
1401-2400	•	FFH/3	FFH/3

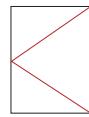
ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E 1M	E 2M	E 3M	E 4M	MS
180-250	90-125	150	56,5	•	•	•	•
251-500	126-250	500	67,5	•	•	•	•
501-900	251-450	900	192,5	207,5	•	•	- 129,5
901-1400	451-700	1400	392,5	120,5	407,5	•	- 129,5
1401-1900	701-950	1900	242,5	257,5	657,5	642,5	88,5
1901-2400	950-1200	2400	342,5	357,5	907,5	892,5	88,5

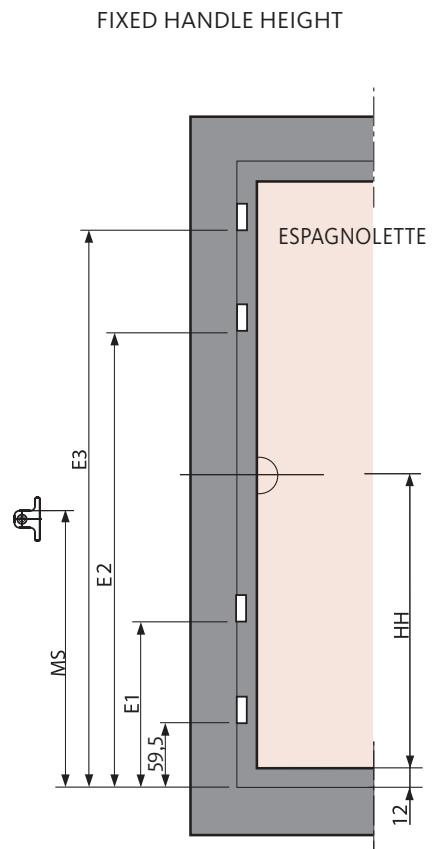
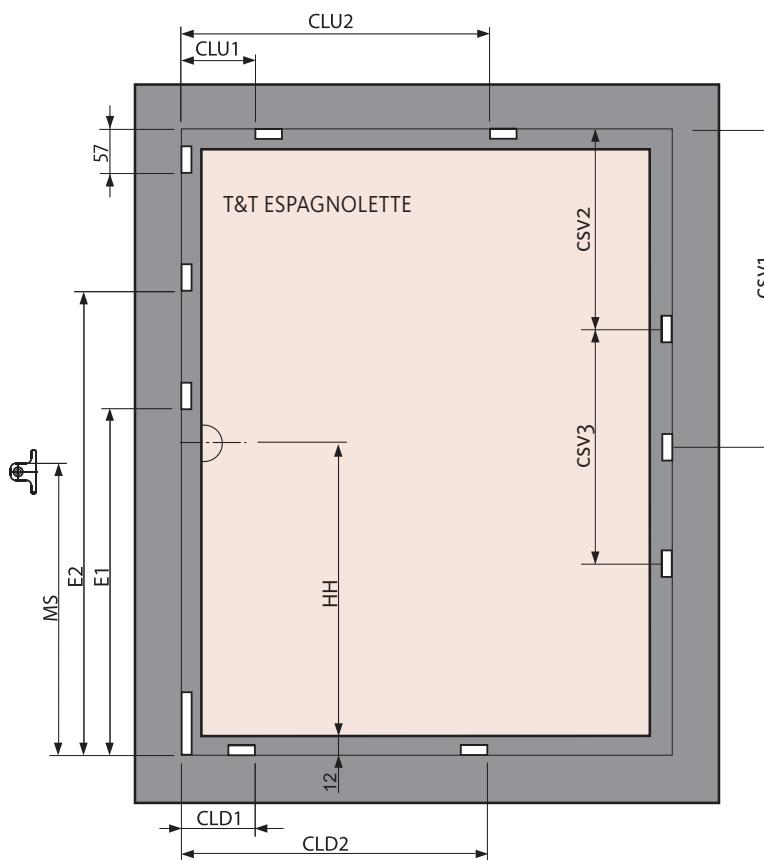
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TURN HARDWARE



FIXED HANDLE HEIGHT



T&T ESPAGNOLETTE, FIXED HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1	E2	MS
320-460	120	320	•	•	•
461-600	170	460	•	•	230,5
601-800	263	660	•	•	145,5
801-1000	413	860	•	•	295,5
801-1000	413	860	549,5	•	295,5
1001-1200	513	1060	699,5	•	395,5
1201-1400	563	1260	699,5	•	395,5
1401-1600	563	1460	699,5	•	395,5
1601-1800	563	1660	699,5	•	395,5
1601-1800	1000	1660	699,5	•	395,5
1801-2000	1000	1860	699,5	1369,5	1128,5
2001-2200	1000	2060	699,5	1369,5	1128,5
2201-2400	1000	2260	699,5	1369,5	1128,5

CENTRE LOCK - UP

Sash rebate width	Lenght	CLU1	CLU2
600-800	350	324,5	•
801-1200	550	130,5	524,5
1201-1400	850	130,5	824,5

ESPAGNOLETTE, FIXED HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1	E2	E3	MS
400-500	170	500	348,5	•	•	•
501-600	170	600	448,5	•	•	230,5
601-700	263	700	548,5	•	•	145,5
701-800	263	800	648,5	•	•	145,5
801-900	413	900	748,5	•	•	295,5
901-1000	413	1000	848,5	•	•	295,5
1001-1100	513	1100	728,5	948,5	•	395,5
1101-1200	513	1200	728,5	1048,5	•	395,5
1201-1300	563	1300	728,5	1148,5	•	395,5
1301-1400	563	1400	728,5	1248,5	•	395,5
1401-1500	563	1500	728,5	1348,5	•	395,5
1501-1600	563	1600	728,5	1448,5	•	395,5
1601-1700	563	1700	728,5	1548,5	•	395,5
1701-1800	563	1800	728,5	1148,5	1648,5	395,5
1801-2000	1000	2000	704,5	1298,5	1748,5	1128,5
2001-2200	1000	2200	704,5	1348,5	1948,5	1128,5
2201-2400	1000	2400	704,5	1548,5	2148,5	1128,5

CENTRE LOCK - DOWN

Sash rebate width	Lenght	CLD1	CLD2
600-800	350	307,5	•
801-1200	550	113,5	507,5
1201-1400	850	113,5	807,5

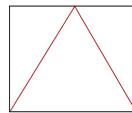
CONCEALED STRIKER

Sash rebate height	CSV1	CSV2	CSV3
800-1400	FFH/2	•	•
1401-2400	•	FFH/3	FFH/3

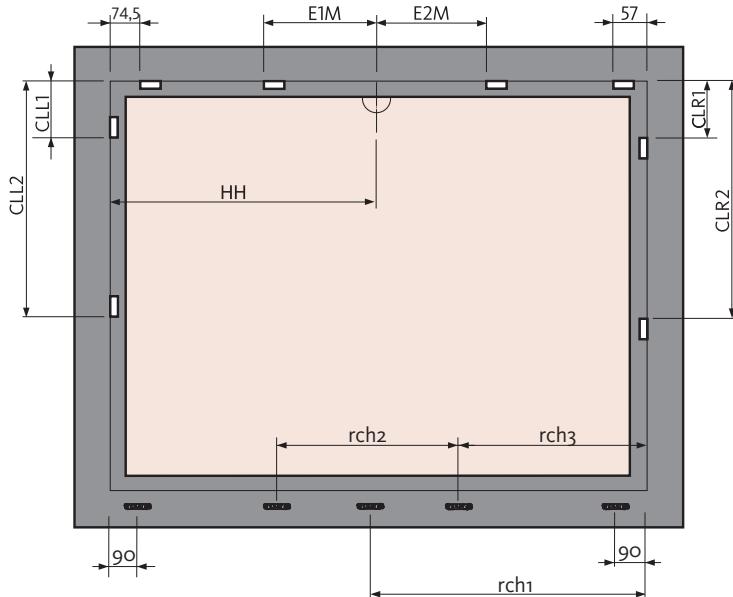
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TIlt hardware



CENTERED/VARIABLE HANDLE HEIGHT



T&T ESPAGNOLETTE M,
CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate width	HH	Lenght	E1M	E2M
420-620	210-310	340	•	•
600-1000	300-500	720	102,5	•
900-1400	450-700	1120	102,5	•
1401-1800	701-900	1520	102,5	•
1601-2000	801-1000	1720	302,5	317,5
2001-2400	1001-1200	2120	302,5	317,5

CENTRE LOCK - RIGHT

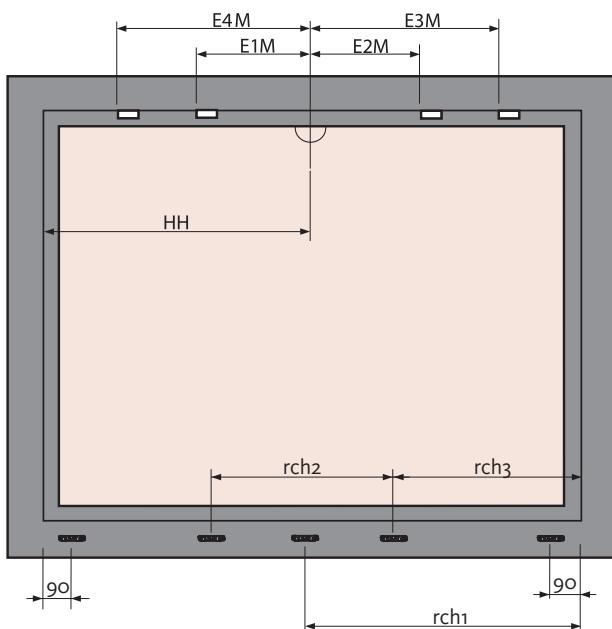
Sash rebate height	Lenght	CLR1	CLR2
600-800	350	324,5	•
801-1200	550	130,5	524,5

REBATE CENTER HINGE - ADJUSTABLE

Sash rebate width	rch1	rch2	rch3
1201-2200	FFH/2	•	•
2201-2400	•	FFH/3	FFH/3

CENTRE LOCK - LEFT

Sash rebate height	Lenght	CLL1	CLL2
600-800	350	307,5	•
801-1200	550	113,5	507,5



ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE WIDTH

Sash rebate width	HH	Lenght	E1M	E2M	E3M	E4M
180-250	90-125	180	56,5	•	•	•
251-500	126-250	500	67,5	•	•	•
501-900	251-450	900	192,5	207,5	•	•
901-1400	451-700	1400	392,5	120,5	407,5	•
1401-1900	701-950	1900	242,5	257,5	657,5	642,5
1901-2400	950-1200	2400	342,5	357,5	907,5	892,5

REBATE CENTER HINGE - ADJUSTABLE

Sash rebate width	rch1	rch2	rch3
1201-2200	FFH/2	•	•
2201-2400	•	FFH/3	FFH/3

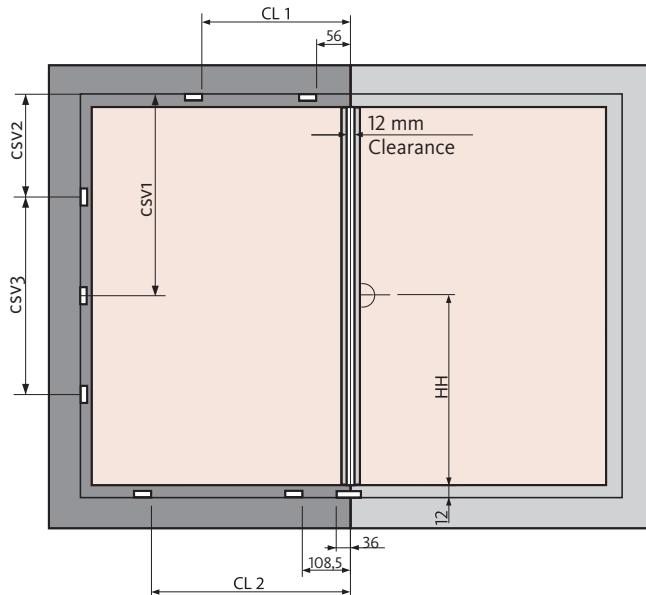
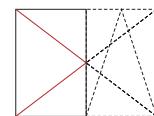
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

FRENCH WINDOW

FRENCH WINDOW ESPAGNOLETTE - Fixed handle-height - OHG

FRENCH WINDOW ESPAGNOLETTE M - Centered/Variabile handle-height - OHG



CENTRE LOCK - UP + CORNER DRIVE

Sash rebate width	Lenght	CL1
800-1200	400	477
1200-1400	600	677

CENTRE LOCK - DOWN

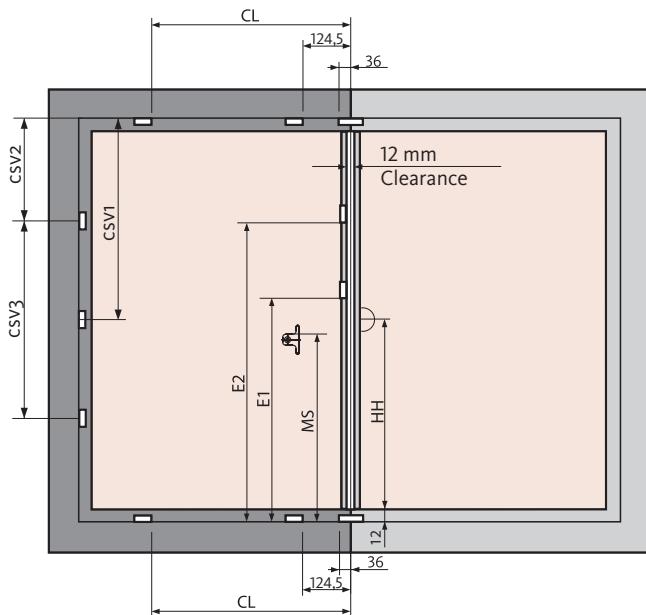
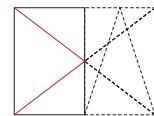
Sash rebate width	Lenght	CL2
600-800	350	302,5
801-1200	550	502,5
1201-1400	850	802,5

CONCEALED STRIKER

Sash rebate height	CSV1	CSV2	CSV3
800-1400	FFH/2	•	•
1401-2400	•	FFH/3	FFH/3

SHOOTBOLT, STRIKER OHG

FIXED HANDLE HEIGHT



T&T ESPAGNOLETTE M, FIXED HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1	E2	MS
320-460	120	320	•	•	•
461-600	170	460	•	•	230,5
601-800	263	660	•	•	145,5
801-1000	413	860	•	•	295,5
801-1000	413	860	549,5	•	295,5
1001-1200	513	1060	699,5	•	395,5
1201-1400	563	1260	699,5	•	395,5
1401-1600	563	1460	699,5	•	395,5
1601-1800	563	1660	699,5	•	395,5
1601-1800	1000	1660	699,5	•	395,5
1801-2000	1000	1860	699,5	1369,5	1128,5
2001-2200	1000	2060	699,5	1369,5	1128,5
2201-2400	1000	2260	699,5	1369,5	1128,5

CENTRE LOCK - UP, DOWN

Sash rebate width	Lenght	CL
600-800	600-800	318,5
801-1200	801-1200	518,5
1201-1400	1201-1400	818,5

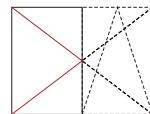
CONCEALED STRIKER

Sash rebate height	CSV1	CSV2	CSV3
800-1400	FFH/2	•	•
1401-2400	•	FFH/3	FFH/3

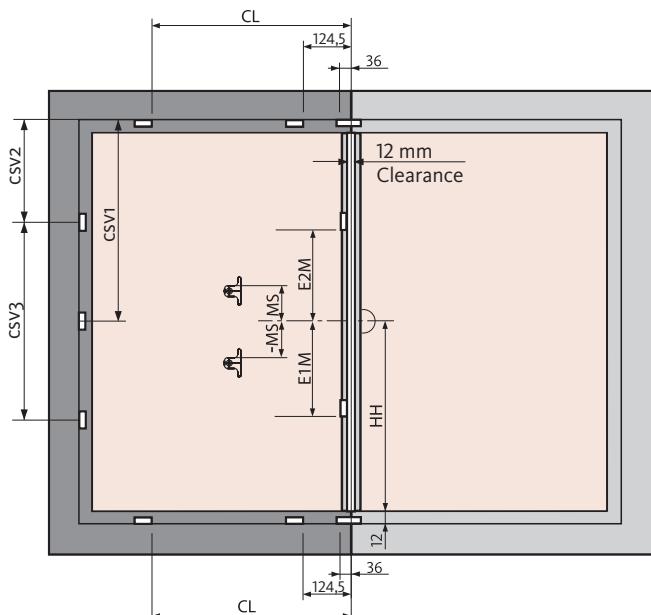
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

SHOOTBOLT, STRIKER OHG



CENTERED/VARIABLE HANDLE HEIGHT



T&T ESPAGNOLETTE M,
CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1 M	E2 M	MS
420-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-2000	801-1000	1720	302,5	317,5	- 122,5
2001-2400	1001-1200	2120	302,5	317,5	- 122,5

CENTRE LOCK - UP, DOWN

Sash rebate width	Lenght	CL
600-800	350	318,5
801-1200	550	518,5
1201-1400	850	818,5

CONCEALED STRIKER

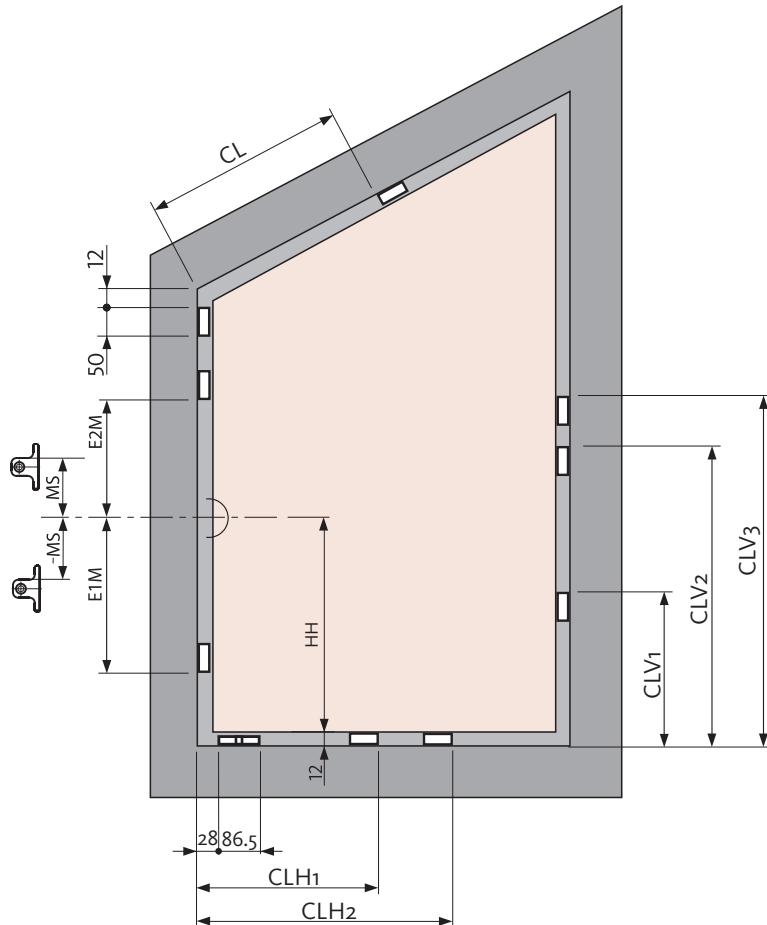
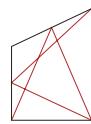
Sash rebate height	CSV1	CSV2	CSV3
800-1400	FFH/2	•	•
1401-2400	•	FFH/3	FFH/3

MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TILT&TURN HARDWARE / PITCHED

CENTERED/VARIABLE HANDLE HEIGHT



T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1M	E2M	MS
420-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5

CENTRE LOCK PITCHED / ARCHED - Horizontal

Sash rebate width	Lenght	CLH1	CLH2
400-650	370	•	•
651-900	620	420	•
901-1150	870	670	•
1151-1400	1120	420	920

CENTRE LOCK PITCHED / ARCHED - Vertical

Sash rebate height	Lenght	CLV1	CLV2	CLV3
580-900	370	•	•	•
901-1100	620	420	•	•
1101-1400	780	670	•	•
1401-1690	1120	420	920	•
1691-1890	920*+400	420	920	1143
1891-1900	1120**+400	420	920	1343

CENTRE LOCK

Sash rebate width	Lenght	CL
801-1000	400	432,5
1001-1400	600	432,5

* Centre lock 1120 mm (1083079) max. abbreviate

** Centre lock 1120 mm (1083079) do not abbreviate

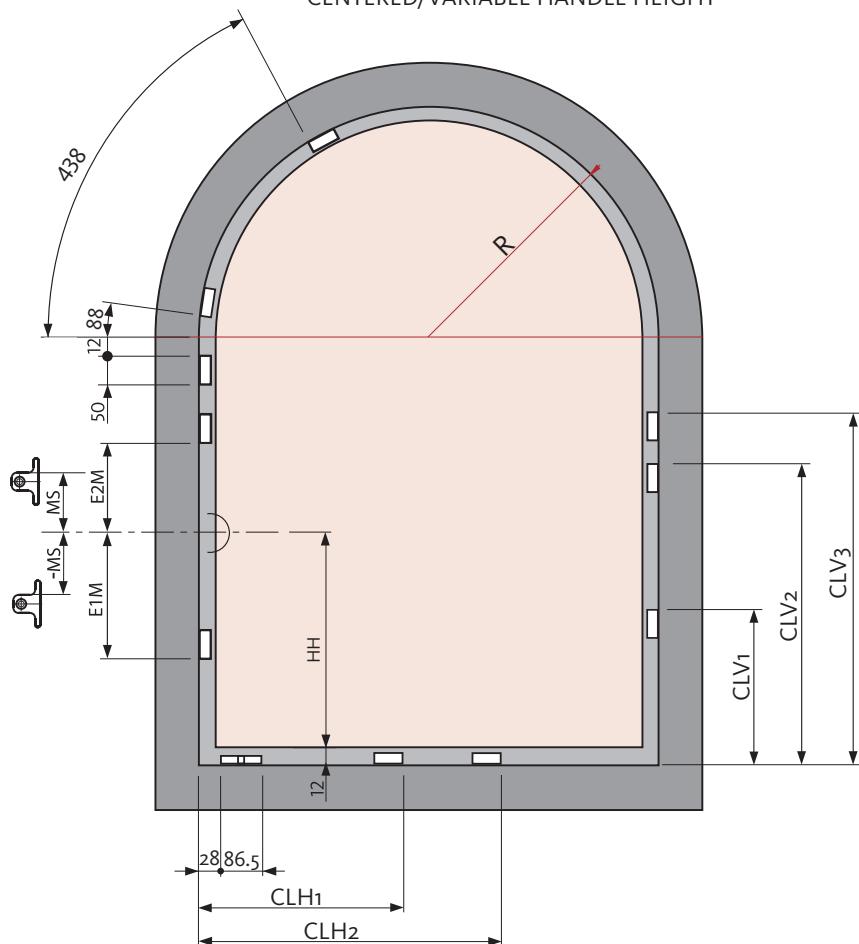
MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TILT&TURN HARDWARE / ARCHED



CENTERED/VARIABLE HANDLE HEIGHT



T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1M	E2M	MS
580-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-1900	801-1000	1720	302,5	317,5	122,5

CENTRE LOCK PITCHED / ARCHED - Horizontal

Sash rebate width	Lenght	CLH1	CLH2
400-650	370	•	•
651-900	620	420	•
901-1150	870	670	•
1151-1400	1120	420	920

CENTRE LOCK PITCHED / ARCHED - Vertical

Sash rebate height	Lenght	CLV1	CLV2	CLV3
580-900	370	•	•	•
901-1100	620	420	•	•
1101-1400	780	670	•	•
1401-1690	1120	420	920	•
1691-1890	920*+400	420	920	1143
1891-1900	1120**+400	420	920	1343

* Centre lock 1120 mm (1083079) max. abbreviate

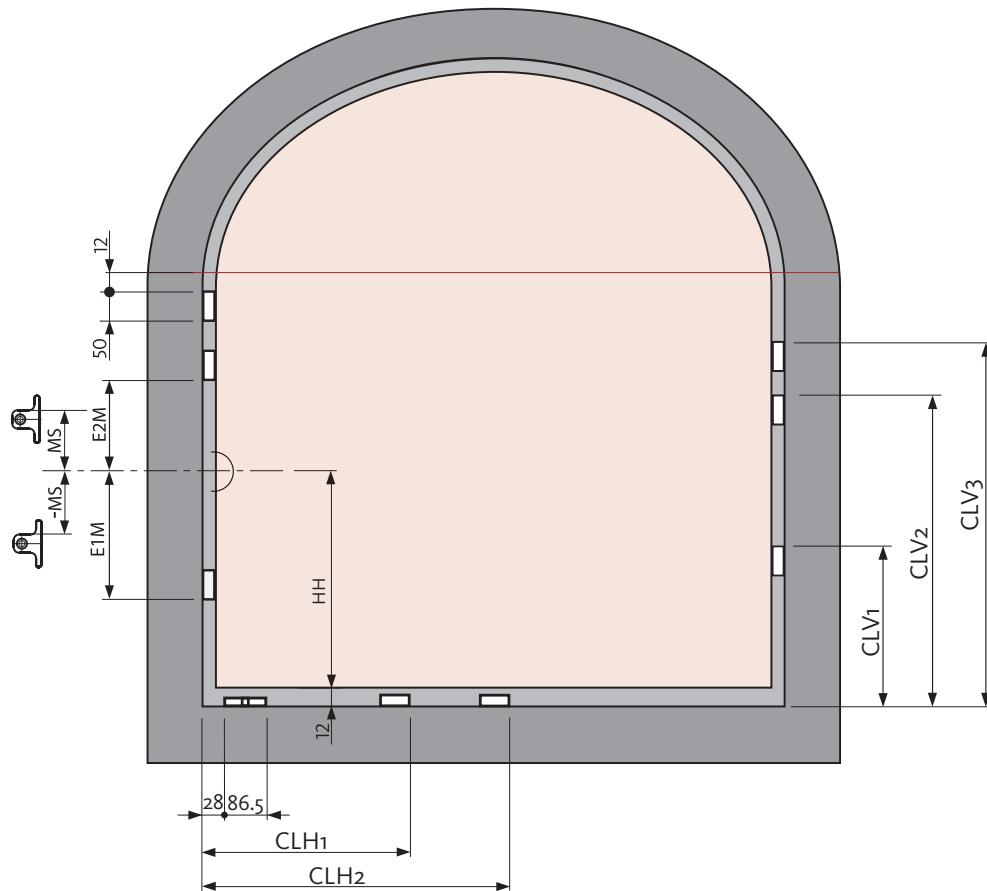
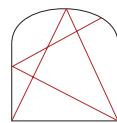
** Centre lock 1120 mm (1083079) do not abbreviate

MOUNTING HARDWARE TO THE FRAME

INSTALLATION CLOSING ELEMENTS

TILT&TURN HARDWARE / ARCHED

CENTERED/VARIABLE HANDLE HEIGHT



T&T ESPAGNOLETTE M, CENTERED/VARIABLE HANDLE HEIGHT

Sash rebate height	HH	Lenght	E1M	E2M	MS
580-620	210-310	340	•	•	•
600-1000	300-500	720	102,5	•	37,5
900-1400	450-700	1120	102,5	•	98,5
1401-1800	701-900	1520	102,5	•	98,5
1601-1900	801-1000	1720	302,5	317,5	122,5

CENTRE LOCK PITCHED / ARCHED - Horizontal

Sash rebate width	Lenght	CLH1	CLH2
400-650	370	•	•
651-900	620	420	•
901-1150	870	670	•
1151-1400	1120	420	920

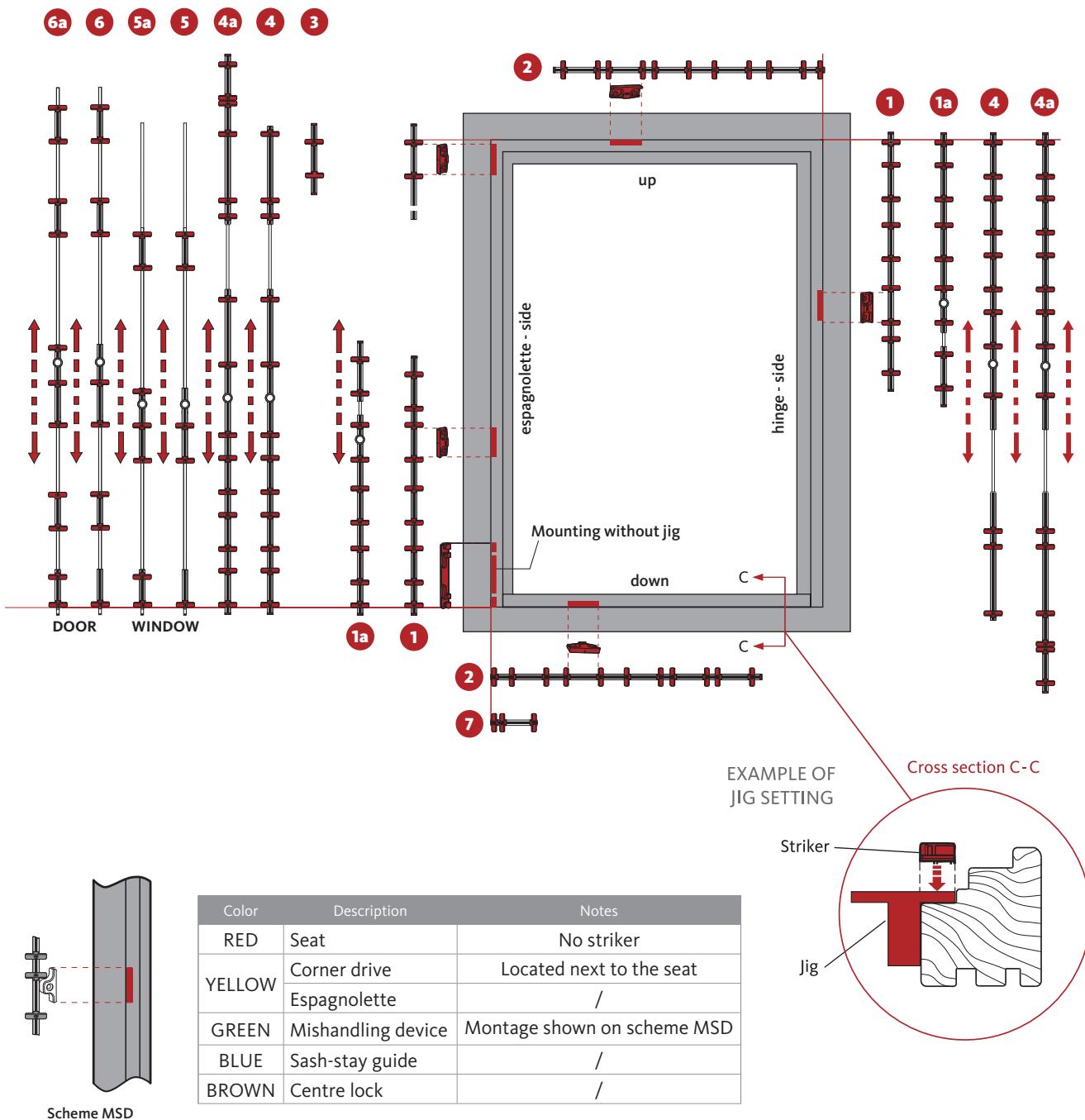
CENTRE LOCK PITCHED / ARCHED - Vertical

Sash rebate height	Lenght	CLV1	CLV2	CLV3
580-900	370	•	•	•
901-1100	620	420	•	•
1101-1400	780	670	•	•
1401-1690	1120	420	920	•
1691-1890	920*+400	420	920	1143
1891-1900	1120**+400	420	920	1343

* Centre lock 1120 mm (1083079) max. abbreviate

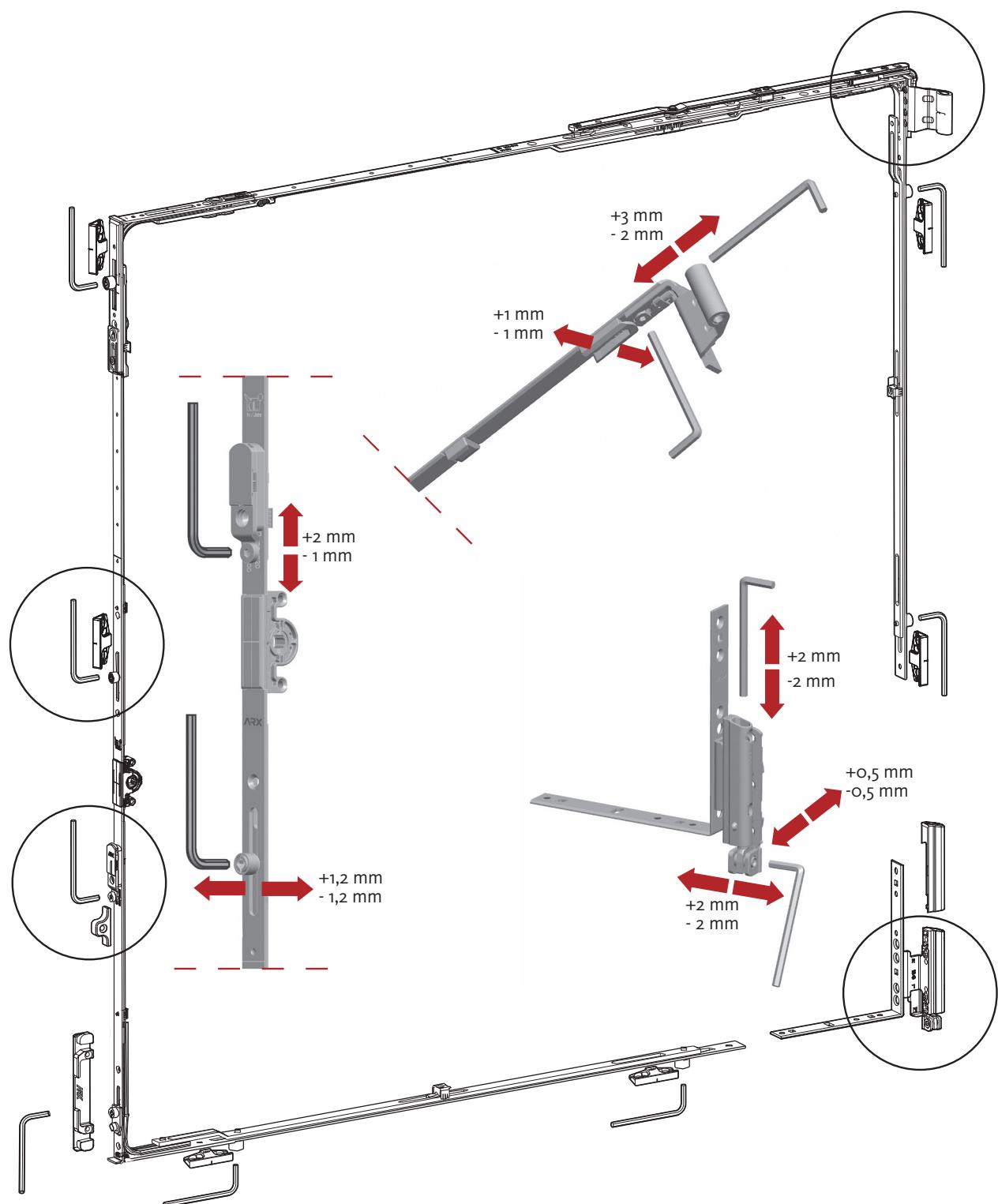
** Centre lock 1120 mm (1083079) do not abbreviate

STRIKER POSITIONING JIGS

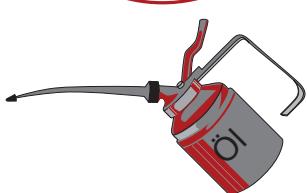


Type	Description	Material Nr.
1	Jig - constant handle height/hinge side SRH < 1600	1103566
1a	Telescopic jig - constant handle height - added locking cam	1103567
2	Jig for strikers up/down	1103568
3	Jig for corner drive	1103569
4	Jig for strikers door SRH 1601 - 2400	1103570
4a	Telescopic jig - constant handle height - added locking cam SRH 1601 - 2400	1103571
5	Telescopic jig - variable handle height (window)	1103572
5a	Telescopic jig - variable handle height with added locking cam (window)	1103573
6	Telescopic jig - variable handle height (door)	1103574
6a	Telescopic jig - variable handle height with added locking cam (door)	1103575
7	Jig for T&Ti striker	1108014

ADJUSTMENT INSTRUCTIONS



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 month.

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

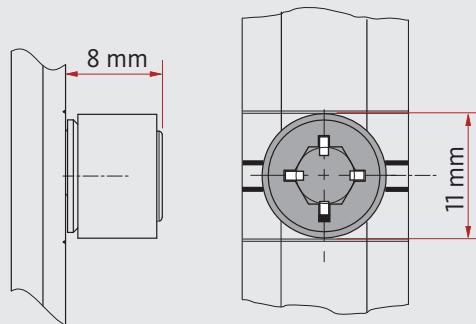
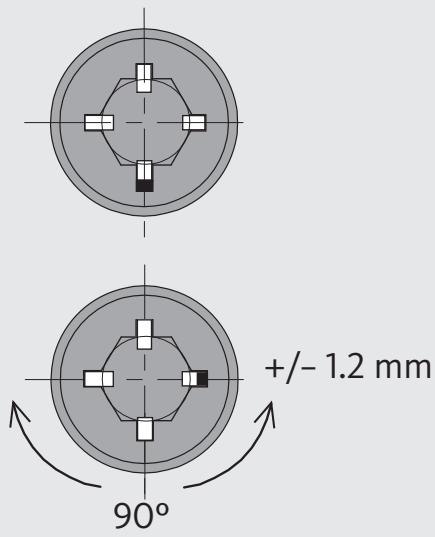


ARX GREASE

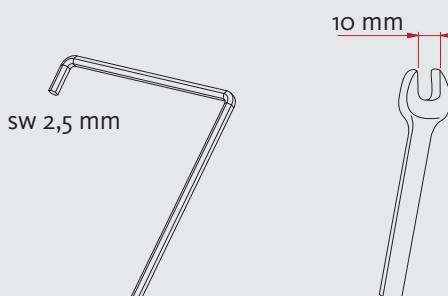
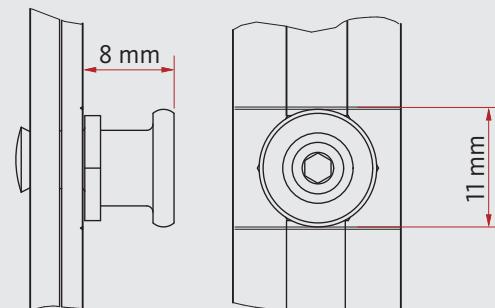
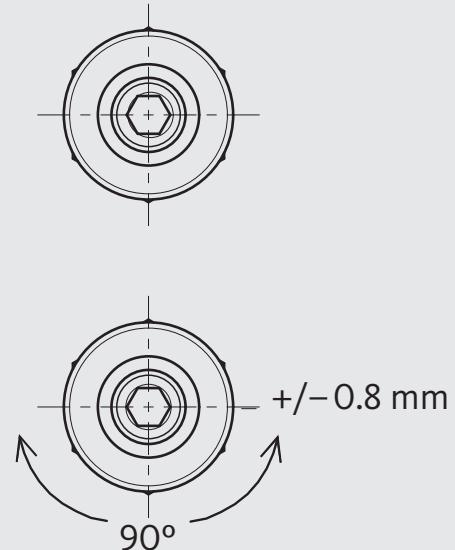
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LOCKING CAM ADJUSTMENT INSTRUCTIONS

Locking cam R



Locking cam RS

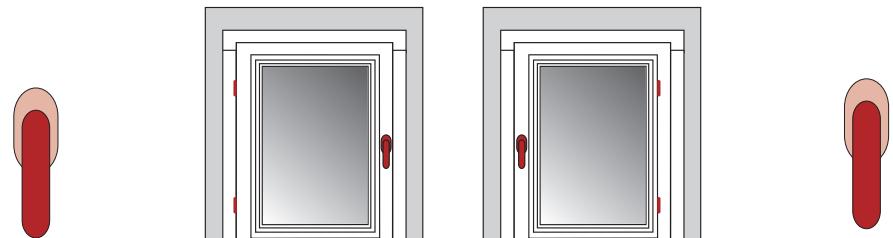


HEX KEY 4mm
SCREW DRIVER PH3

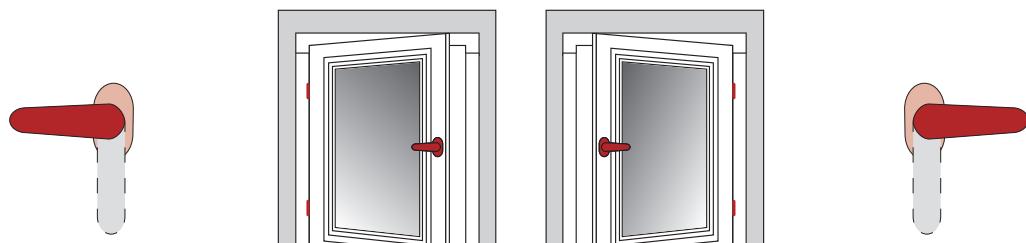
1090862
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OPERATING AND SYSTEM INSTRUCTIONS

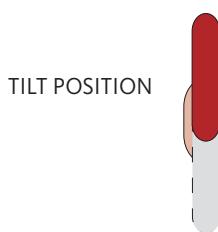
OPERATION



CLOSED POSITION OF THE SASH

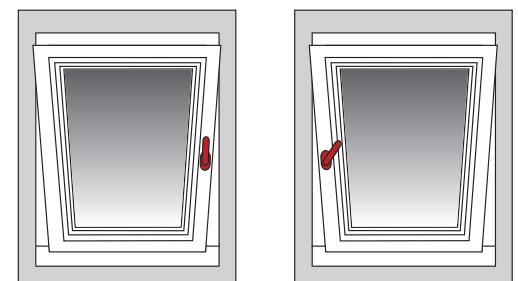


OPENED TURN POSITION OF THE SASH

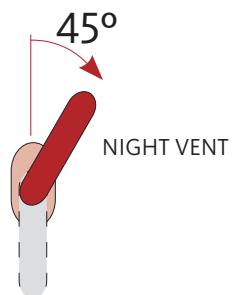


TI LT POSITION

* Figure shows handle of left opening window



OPENED
TI LT POSITION

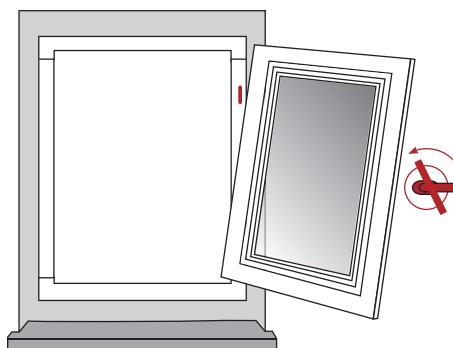
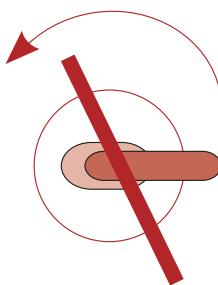


NIGHT VENT

* Figure shows handle of right opening window

OPERATING AND SYSTEM INSTRUCTIONS

AVOID MISHANDLING

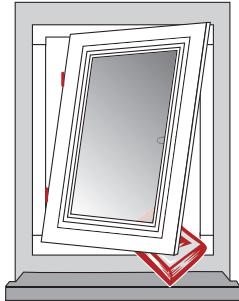


MALPOSITIONING OF THE SASH

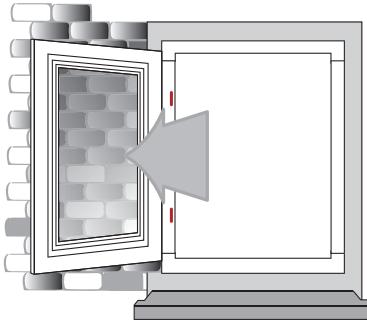
WARNING

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

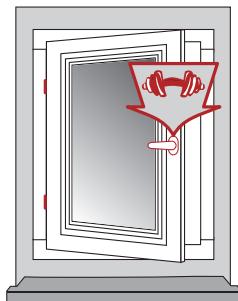
DO NOT PLACE ANY OBJECTS BETWEEN THE SASH AND FRAME.



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

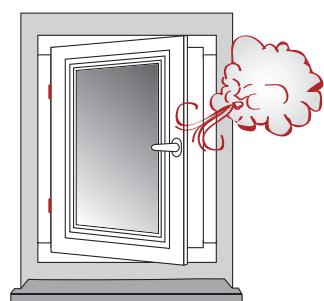


THE WINDOW SASH MAY NOT BE BURDENED WITH ADDITIONAL WEIGHT.

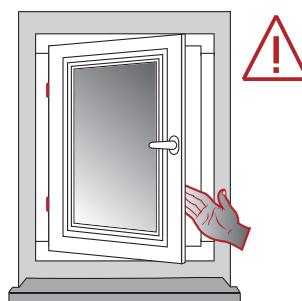


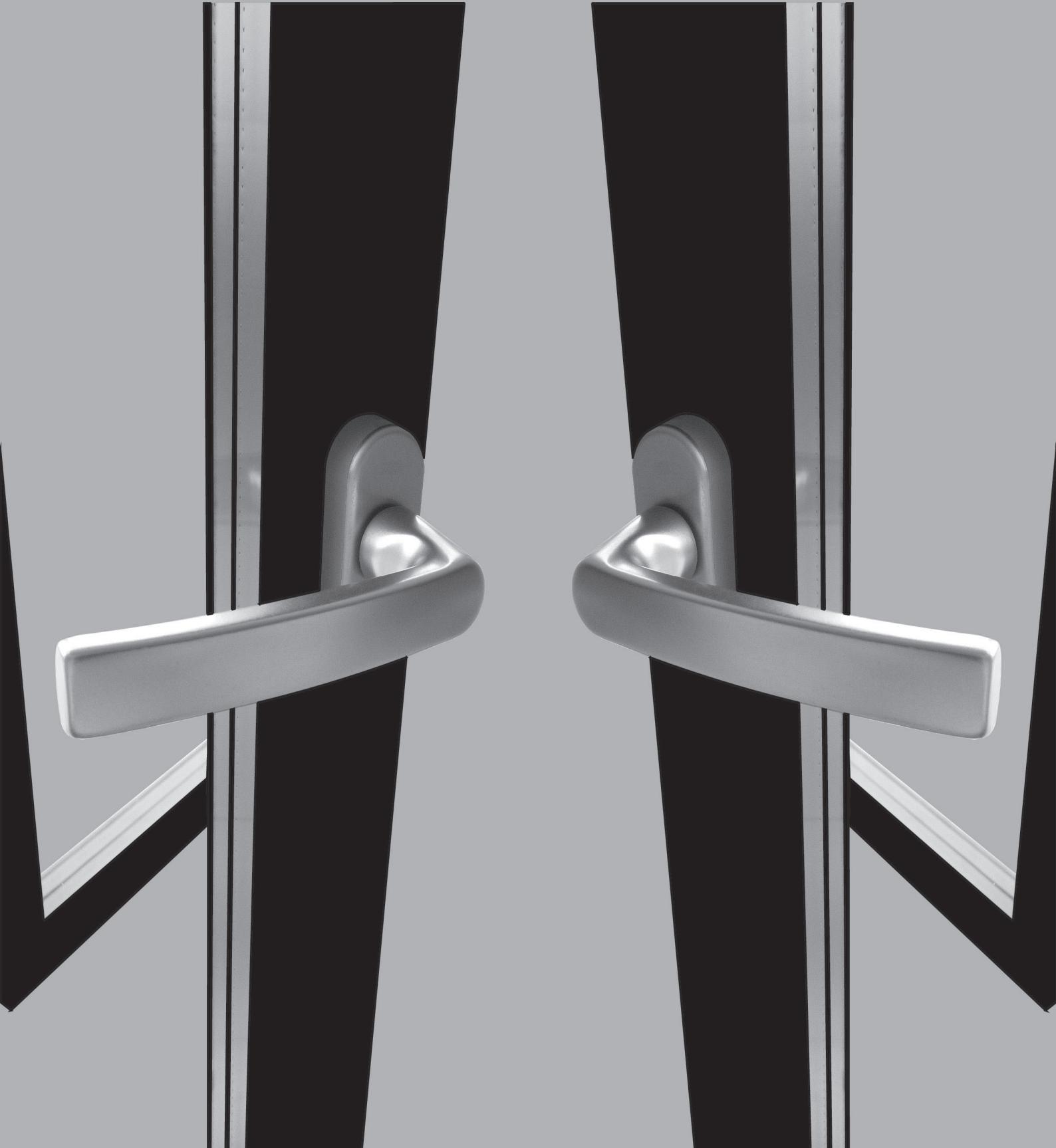
CAUTION!
WHERE SMALL CHILDREN OR MENTALLY HADICAPPED PERSONS HAVE ACCESS TO THE WINDOW, THE SASH HAS TO BE SAFEGUARDED AGAINST TURNING, FOR EXAMPLE WITH A CHILD-SAFETY LOCK (INHIBITS TURN-MODUS, PERMITS TILT-MODUS) OR KEY-LOCKABLE HANDLES.

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



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





ARX handles

Handles

ARX 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, two spindle sizes are used:

- 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



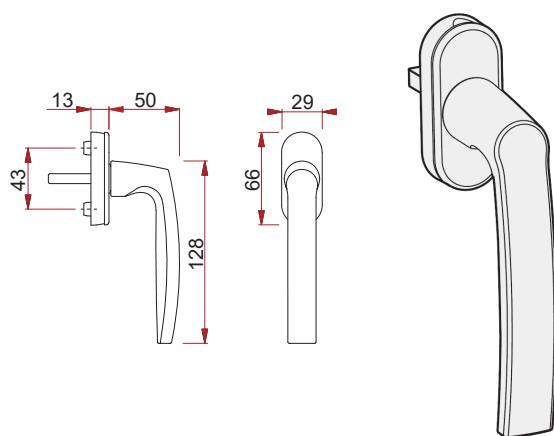
ARX Handles are made of quality material (aluminium) and protected by persistent surface protection of powder coating in different colors. Quality materials, modern manufacturing processes and product testing have led ARX Handles to have a long lifetime and a 10 year warranty.



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.

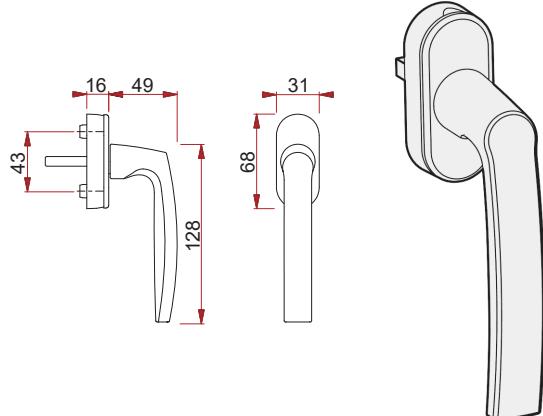
STANDARD

Spindle lenght (mm)	Color	Pack.	Material
37	F1 - silver	20	1053212
37	F4 - dark bronze	20	1053213
37	F9 - titan	20	1053214
37	9010 - white	20	1053215
37	8707 - brown	20	1053216
42	F1 - silver	20	1100839
42	9010 - white	20	1058068
42	8707 - brown	20	1058069



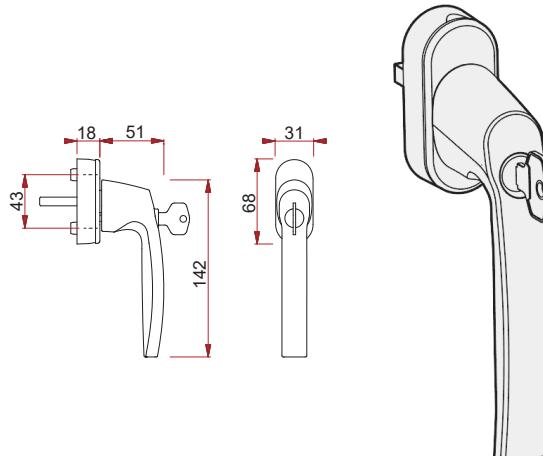
SECUSTIC

Spindle lenght (mm)	Color	Pack.	Material
37	F1 - silver	10	1053222
37	F4 - dark bronze	10	1053223
37	F9 - titan	10	1053224
37	9010 - white	10	1053225
37	8707 - brown	10	1053226



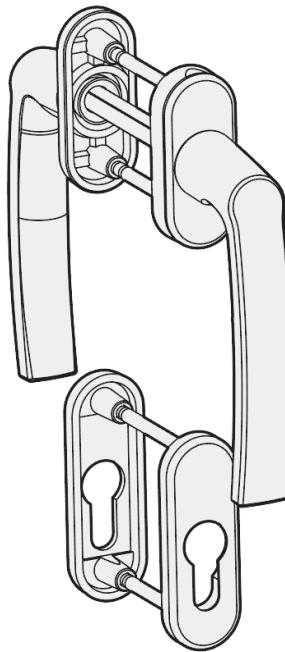
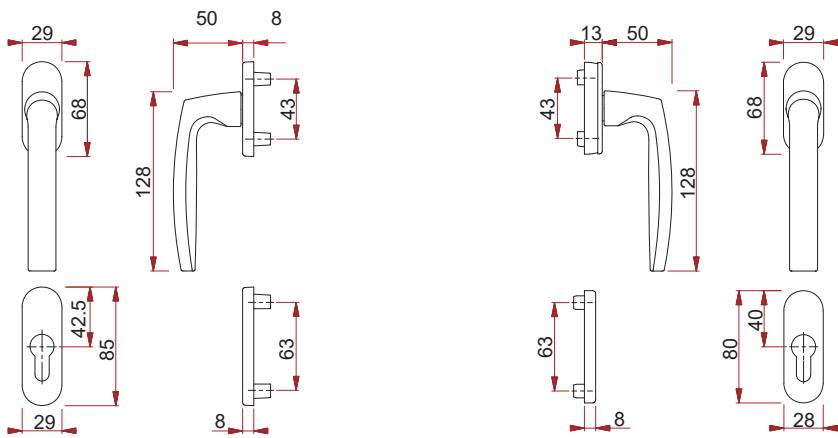
SECUSTIC - Lockable

Spindle lenght (mm)	Color	Pack.	Material
37	F1 - silver	5	1053232
37	F4 - dark bronze	5	1053235
37	F9 - titan	5	1053236
37	9010 - white	5	1053237
37	8707 - brown	5	1053238



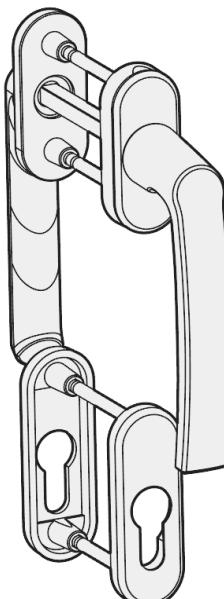
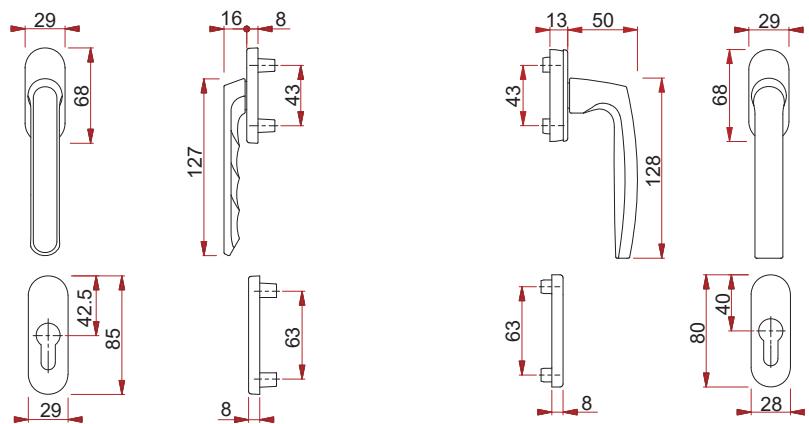
DOOR BALCONY HANDLE

Color	Pack.	Material
F1 - silver	10	1053281
F4 - dark bronze	10	1053282
F9 - titan	10	1053283
9010 - white	10	1053284



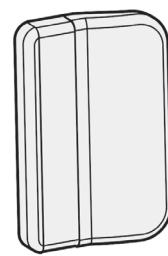
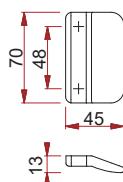
DOOR BALCONY HANDLE - Roller shutters

Color	Pack.	Material
F1 - silver	1	1053267
F4 - dark bronze	1	1053268
9010 - white	1	1053270



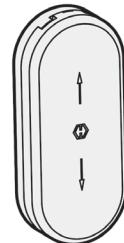
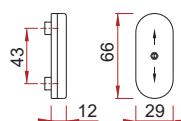
DOOR HANDLE

Color	Pack.	Material
8016 - brown	30	1053291



ROSETTE - removable handle

Color	Pack.	Material
9010 - white	1	1053292



OTHER HANDLES

Description	Color	Pack.	Material
Side balcony handle RAL 9016	9016 - white	1	1117164
Side balcony handle RAL 7016	7016 - anthracite grey	1	1117165
Side balcony handle RAL 8019	8019 - grey brown	1	1118689

Description	Color	Pack.	Material
PVC side balcony handle RAL 9016	9016 - white	36	1120683
PVC side balcony handle RAL 7016	7016 - anthracite grey	36	1120684

Description	Color	Pack.	Material
ZAMAK balcony handle RAL 8016	8016 - mahogany brown	1	1088623
ZAMAK balcony handle RAL 7001	7001 - silver grey	1	1088626
ZAMAK balcony handle RAL 8001	8001 - ochre brown	1	1088627
ZAMAK balcony handle RAL 8022	8022 - black brown	1	1106513
ZAMAK balcony handle RAL 9006	9006 - white aluminium	1	1111530
ZAMAK balcony handle RAL 9007	9007 - grey aluminium	1	1120916

Description	Color	Pack.	Material
ZAMAK oval rosette RAL 8019	8019 - grey brown	1	1081621
ZAMAK oval rosette RAL 9016	9016 - white	1	1085631



ARX is registered trademark
of Kovinoplastika Lož inc.

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ARX Spin hardware



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