ARX SPIN



Made in Europe
ARX by KOVINOPLASTIKA LOŽ
10-YEAR WARRANTY

Made in Europe
ARX by KOVINOPLASTIKA LOŽ
ARX COAT SURFACE PROTECTION

ARX SPIN PVC

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

KOVINOPLASTIKA LOŽ
Since 1954

2026

ARX
The Hardware.

Made in Europe
ARX
by KOVINOPLASTIKA LOŽ
10-YEAR WARRANTY

Made in Europe
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ARX COAT SURFACE PROTECTION

Bring premium quality into your home for a lifetime.

ARX PORTFOLIO

ARX SPIN



Turn and tilt hardware solutions for windows and balcony doors.

ARX SPIN

ARX DOOR LOCK



Multipoint door lock solutions for main and back entrance doors.

ARX DOOR LOCK

ift ROSENHEIM
ift TESTED
ID K009656
ift-tested.de

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

ARX CASEMENT



Solutions for casement windows –outward opening.

ARX CASEMENT

ARX SLIDE



Sliding hardware solutions for doors and windows.

ARX SLIDE

ARX ACCESSORIES



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

ARX ACCESSORIES

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ARX
The Hardware.
03/2024

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ARX – bring premium quality in your home for a lifetime

ARX is one of the leading providers of window and door hardware In Europe. Brand ARX is built on more than 70 years of foundation and experience of KOVINOPLASTIKA LOŽ. From that knowledge we are drawing the inspiration to create new and innovative solutions. Integrity in everything we do, quality of our work, and tailor-made building hardware solutions for our customers are the secret of our success and harmonious partnership with our customers. .

Window and door hardware tailored to your demands

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

Our values, vision and mission

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

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WHY ARX



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

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

Accelerating the pace of innovation

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



There is hardware, and then there is ARX.

FOR FULL TERMS AND CONDITIONS, PLEASE VISIT:

BETTER THAN THE REST



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

ARX 10-year warranty

For you to have complete confidence in our products, proven technologies, and expert skills, like we do, we provide you with a 10-year warranty on our building hardware functionality. The warranty applies exclusively to the use of the ARX building hardware, and to all manufacturers and suppliers of doors and windows who use ARX building hardware.

ARX surface protection and resistance coating ARX

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

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

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

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

BETTER THAN THE REST



Versatile hardware

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

The main features of ARX SPIN hardware are:

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

STANDARDS AND CERTIFICATES



Manufacturer´s standards and certificates

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

MANAGEMENT SYSTEM CERTIFICATES:
- ISO 9001
- ISO 14001

CERTIFICATE OF COMFORMITY:
- IFT (QM 328)
- IFT (QM 342)

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









PRODUCT WARRANTY AND LIABILITY

1. Introduction

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

2. Product information and stipulated application

2.1 Quality Assurance Association for Locks and Hardware

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

- This hardware is used for: bringing windows and sashes of windows, by activation of a handle, into a turning position,
- bringing windows and sashes of windows into a tilting position restricted by means of a scissor stay version.

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

2.2 Misuse – exclusion of liability

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

2.3 Restrictions on the use

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

2.4 Use in case of special requirements

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

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

In general, the turn-only, turn & tilt and tilt & 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.

3. 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).

4. Product warranty

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

The warranty applies exclusively to the use of ARX building hardware components. In case of combining ARX building hardware components with components of other manufacturers, this warranty is void. The warranty applies to all manufacturers and suppliers of doors and windows who use ARX building hardware, starting from the purchasing date that is written on the invoice.

For more information please check warranty conditions on webpage - www.arx-hardware.com.

5. Product characteristics – manufacturer's instructions for use

5.1 Maximum sash weights

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

5.2 Sash sizes

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

5.3 Hardware combination

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

5.4 Hardware functionality

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

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

6. Product maintenance

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

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

Hardware 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.

6.1 Maintaining the quality of surface treatment

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

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

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

7. Information and instructions

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

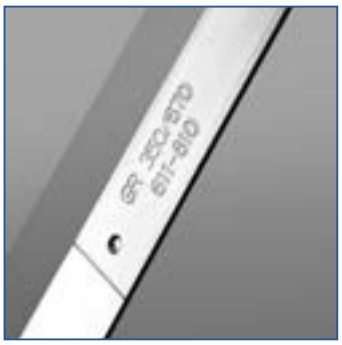
- »Catalogues« for designers and authorized dealers
- »Installation instructions« and »factory drawings« for manufacturers of windows and balcony doors,
- »instructions for maintenance and cleaning« and »Instructions for use« for investors and users.

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

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

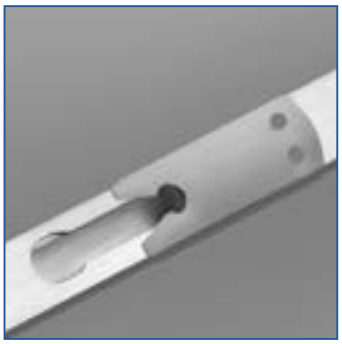
All information regarding turn & tilt, turn or tilt only hardware systems for windows and balcony doors made of PVC should be observed. In case of non-compliance the manufacturer is exempt from liability.

HIGH-QUALITY, DURABLE, SIMPLE



ARX Coat – High quality surface protection

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



Stay guide with integrated anti-slam lock

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



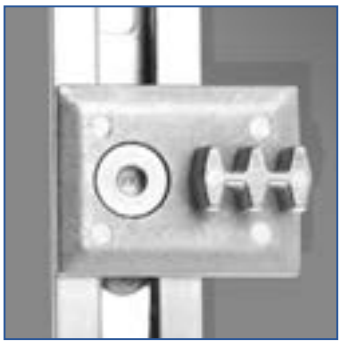
R cam

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



RS cam

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



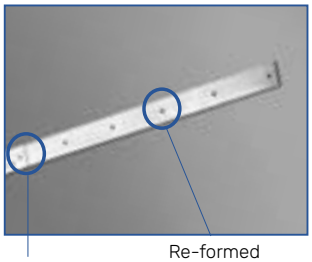
Night vent

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



Additional features

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





Reduced friction between driving rod and faceplate

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

Uniform length of redesigned espagnolettes

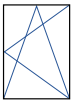
A special feature of ARX Spin hardware is also uniform length of its espagnolettes. A one-size espagnolette can fit a range of sash dimension, covering up to 50% of total requirement. Each espagnolettes can be cropped within the marked cut-off area.

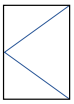


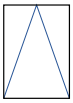
SRH 900 - 1400 mm
(50% Volume)

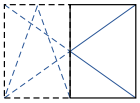
Symbols

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


Turn & tilt


Turn only


Tilt only


Turn only - sec. sash


Rebate sash height


Rebate sash width


Handle height



R cam



RS cam



Night vent


Warning



Max. sash mass


Material number

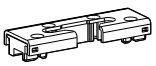

Orientation / postiton

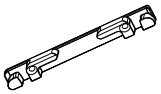

R cam


RS cam


Standard striker


Security striker


T&Ti security striker


T&T striker


Screws


Mishandling device position


Packaging

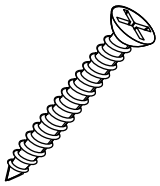

Length / dimension


Hardware shortening

Abbreviation	Description	Units
SRH	SASH REBATE HEIGHT	mm
SRW	SASH REBATE WIDTH	mm
HH	HANDLE HEIGHT	mm
MS	MISHANDLING DEVICE POSITION	mm
BS	BACKSET	mm
LH	LOCK HOLE POSITON	mm
HL	HANDLE LENGTH	mm

Fixing guidelines

SCREWS	MATERIAL
Φ 4,2 x 25	11134209
Φ 4,2 x 35	1134210

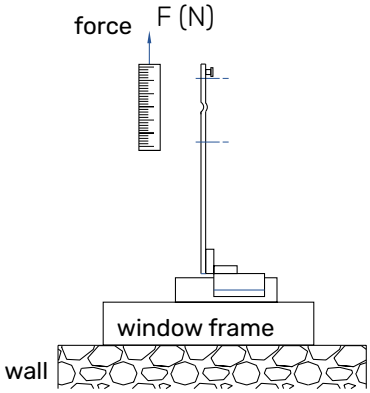


Screws

In order to fix hardware components, silver galvanized, steel construction screws of 4,2 x 25 mm (1134209) and 4,2 x 35 mm (1134210) are used. The 35 mm long screws are used for the hinges and the 25 mm long screws are used for all the rest of hardware. The window manufacturer must ensure sufficient fixing of hardware components. If necessary, the manufacturer of construction screws may also be included in the process of installing hardware.

Fixing of hardware

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



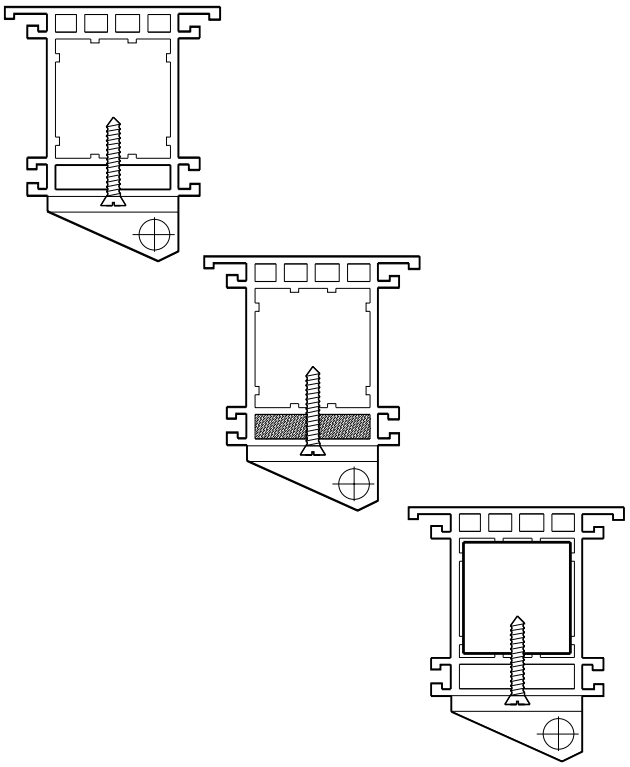
Fixing

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

The necessity of reinforcement

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

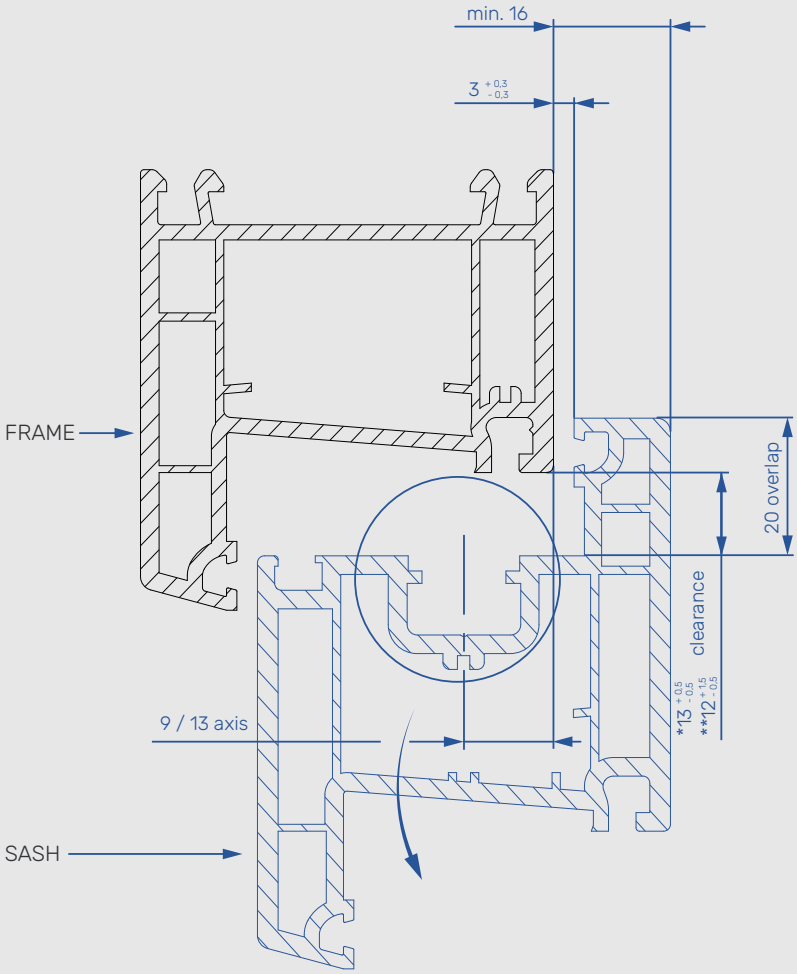
Gaskets with acetic acid net structure must not be used, as their use may lead to corrosion of hardware components. Guidelines regarding the window glazing technique must be followed.

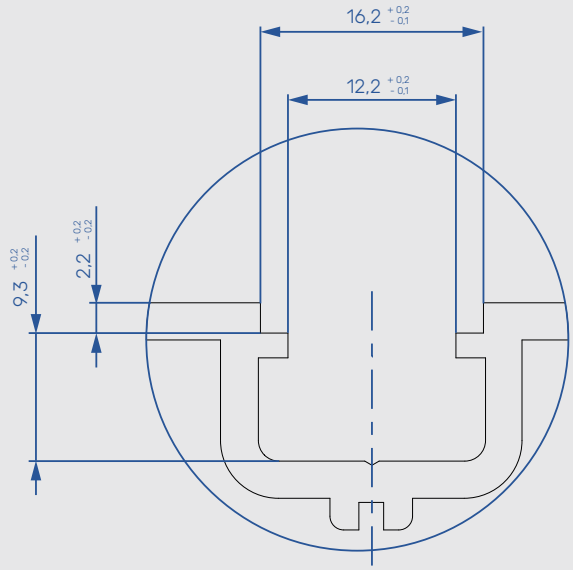


The use of related hardware types

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

Profile dimensioning for PVC





* CONCEALED HINGES
** FACE-FIT HINGES



Typical hardware schemes

Basic schemes
Proposed guidelines

T&TI | FACE-FIT HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

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

2 CORNER DRIVE - TOP

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

3 SASH STAY GUIDE

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

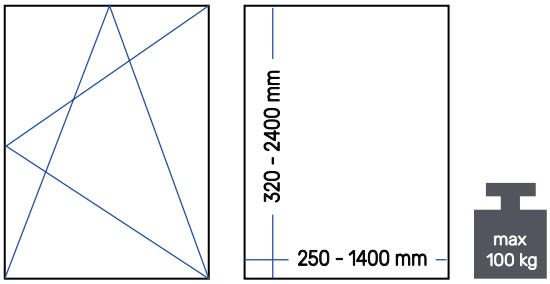
4 STAY ARM

SYSTEM 12/20-13

Sash rebate width	Type / length	Pos.	Material
250–410 [4]	150	L	1123306
		R	1123307
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 CENTER LOCK - VERTICAL

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



6 CENTER LOCK - HORIZONTAL

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

7 CORNER DRIVE - BOTTOM

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

8 STAY BEARING

STAY BEARING WITH PIN K3	1083250

9 CORNER HINGE

CORNER HINGE K3	1083241

10 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

11 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

12 STRIKERS

T&Ti STRIKER	PAGE 133
STRIKER	PAGE 135

13 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

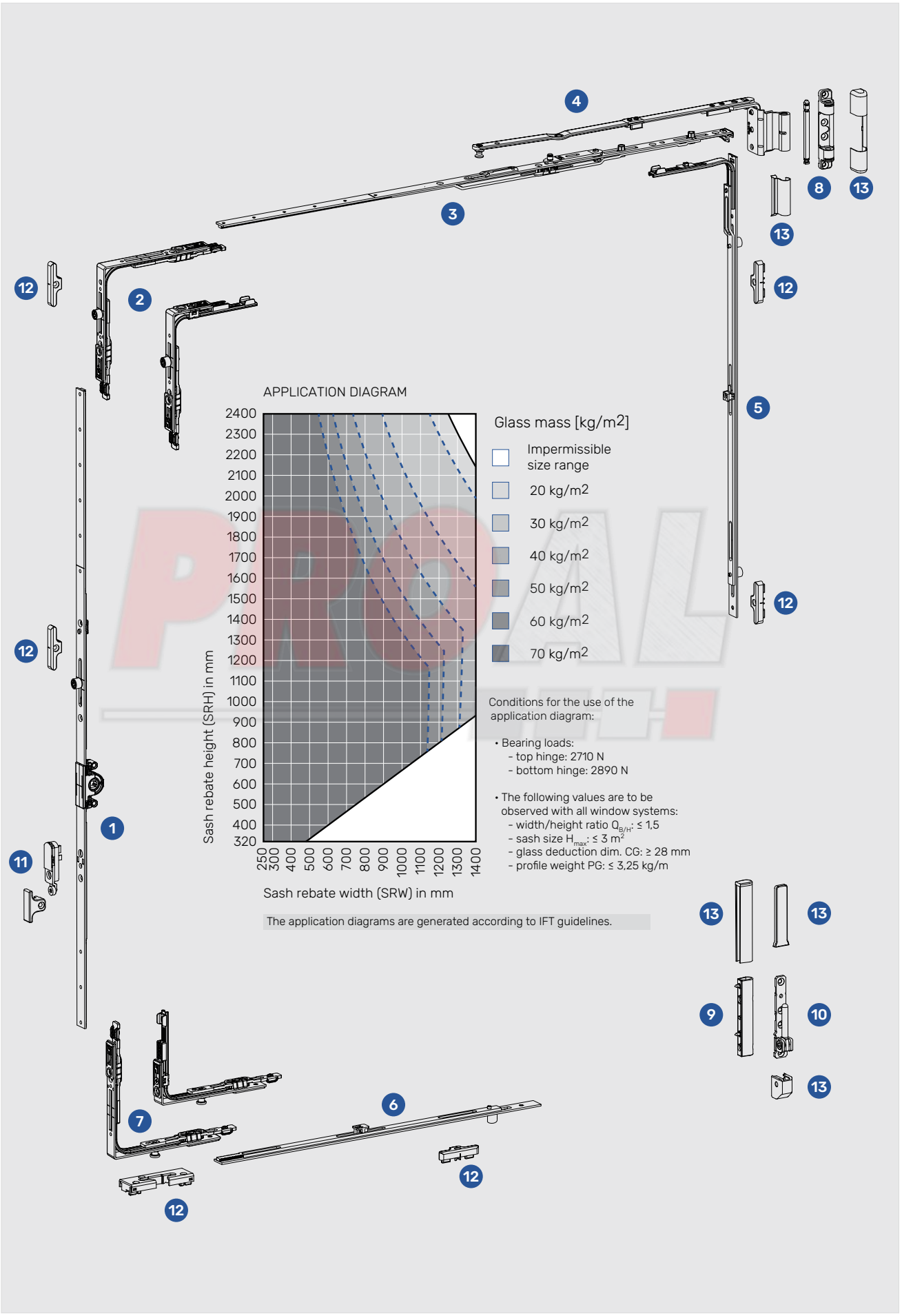
[1] WITH INTEGRATED CORNER DRIVE 1 RS ON BOTTOM

[2] MISHANDLING DEVICE NOT AVAILABLE

[3] MUST USE SHORT CORNER DRIVE **1100986** ON BOTTOM

[4] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

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



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2710 N
  - bottom hinge: 2890 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

T&TI | FACE-FIT HINGE SIDE

Centered / variable handle height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
600–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 CORNER DRIVE - TOP

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

3 SASH STAY GUIDE

Sash rebate width	Type / length		Material Nr.
250–410 [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
1211–1400	500 / 1270	1 R	1083042

4 STAY ARM

SYSTEM 12/20-13

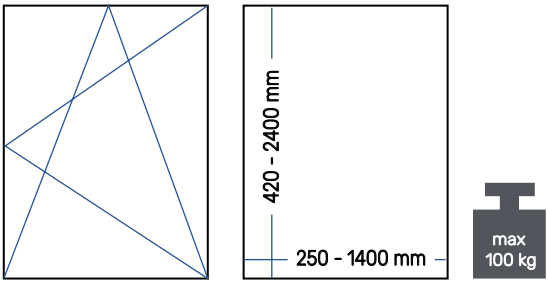
Sash rebate width	Type / length	Pos.	Material
250–410 [2]	150	L	1123306
		R	1123307
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 CENTER LOCK - VERTICAL

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

6 CENTER LOCK - HORIZONTAL

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



7 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 RS	1100983

8 STAY BEARING

STAY BEARING WITH PIN K3	1083250

9 CORNER HINGE

CORNER HINGE K3	1083241

10 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

11 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

12 STRIKERS

T&Ti STRIKER	PAGE 133
STRIKER	PAGE 135

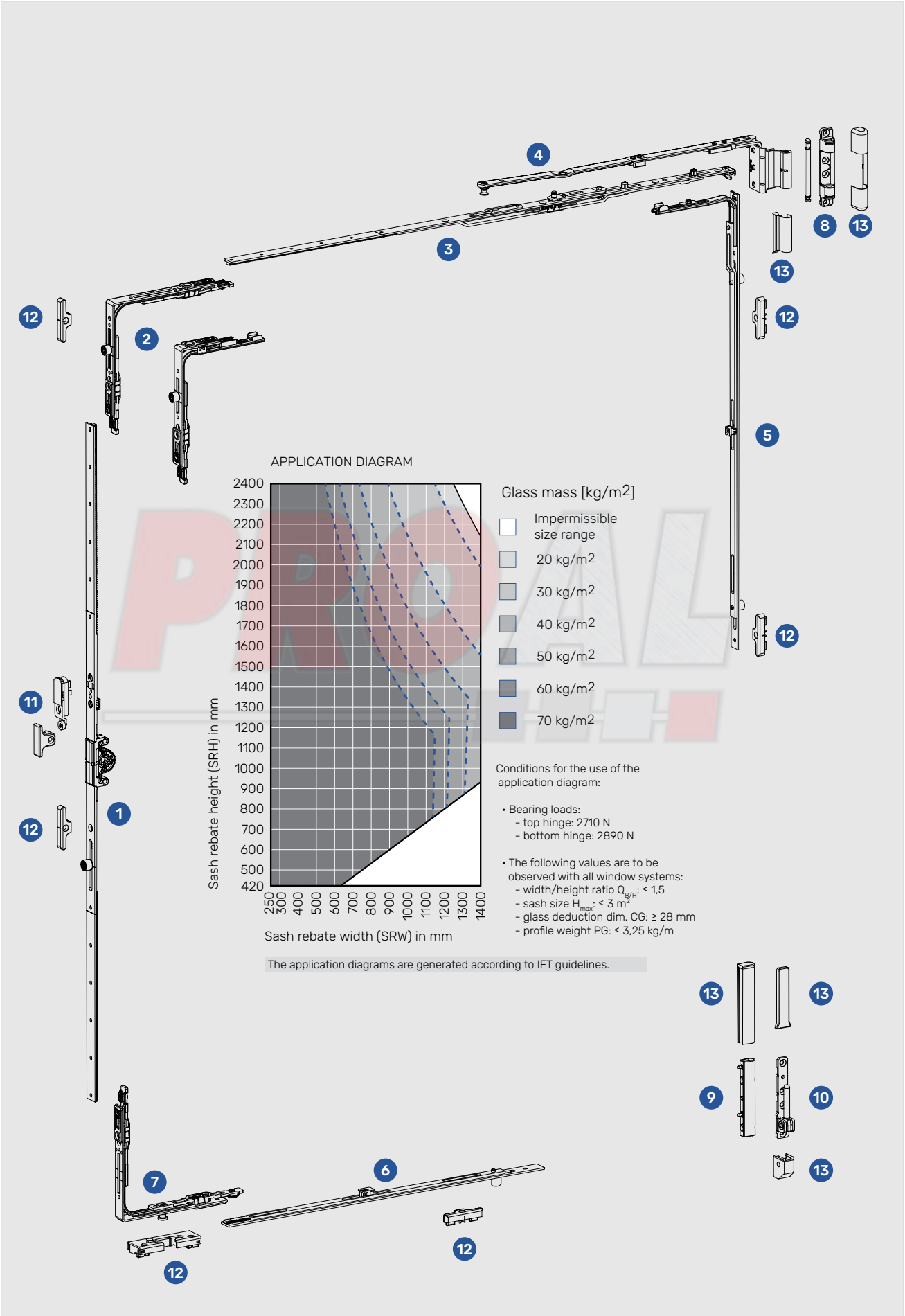
13 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

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


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
420
250
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.

T&T | FACE-FIT HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

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

2 CORNER DRIVE

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

3 SASH STAY GUIDE

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

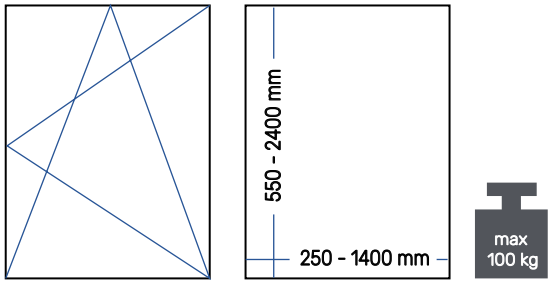
4 STAY ARM

SYSTEM 12/20-13

Sash rebate width	Type / length	Pos.	Material
250–410 [1]	150	L	1123306
		R	1123307
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 CENTER LOCK - VERTICAL

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



6 CENTER LOCK - HORIZONTAL

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

7 TILT LOCK BOLT

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

8 STAY BEARING

STAY BEARING WITH PIN K3	1083250

9 CORNER HINGE

CORNER HINGE K3	1083241

10 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

11 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

12 STRIKERS

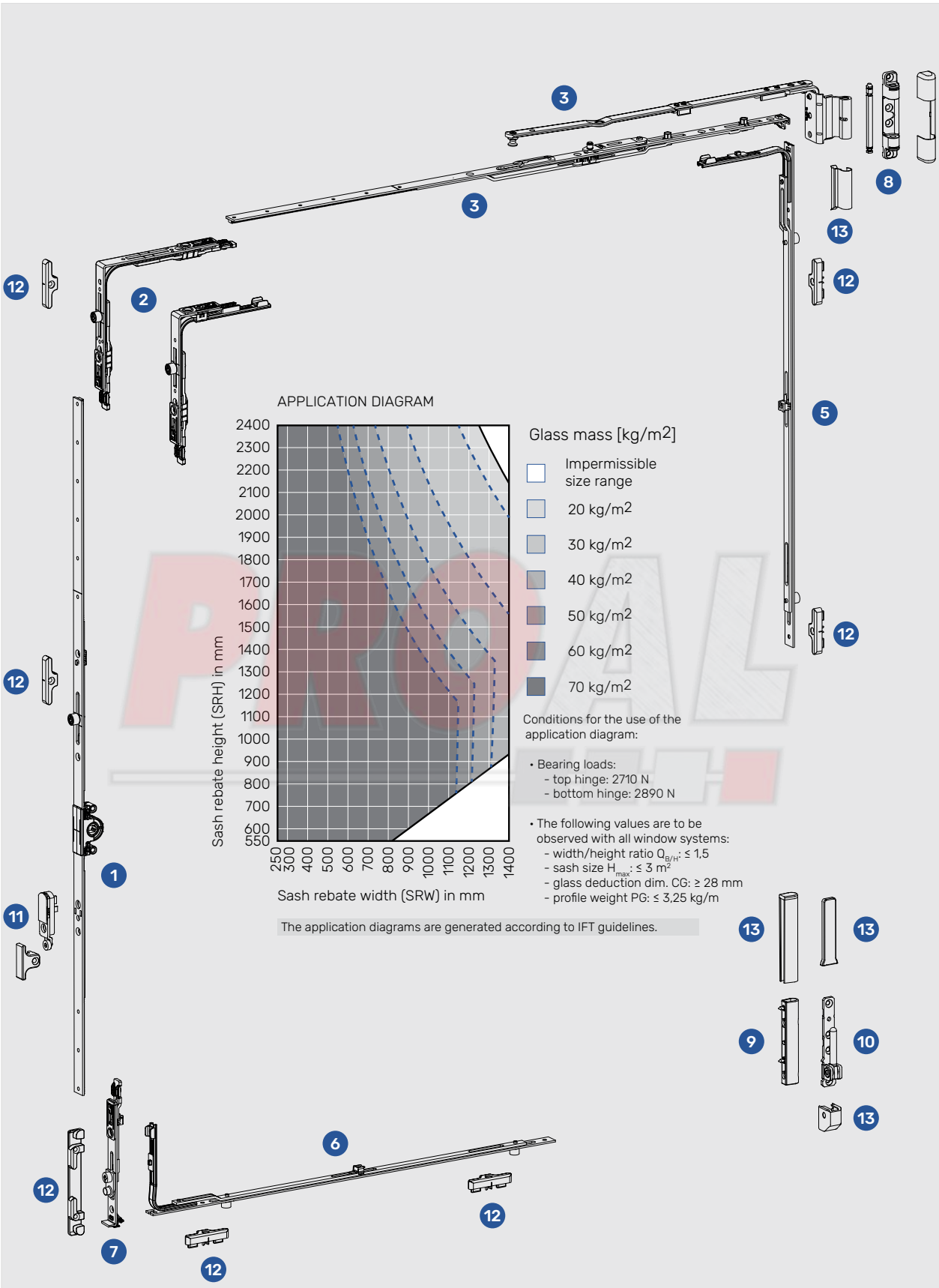
T&T STRIKER	PAGE 132
STRIKER	PAGE 135

13 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

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


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
550
250
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size $H_{max.}$: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.
1
2
3
5
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7
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9
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11
12
13

T&T | FACE-FIT HINGE SIDE

Centered / variable handle height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
600–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 CORNER DRIVE

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

3 SASH STAY GUIDE

Sash rebate width	Type / length		Material Nr.
250–410 [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
1211–1400	500 / 1270	1 R	1083042

4 STAY ARM

SYSTEM 12/20-13

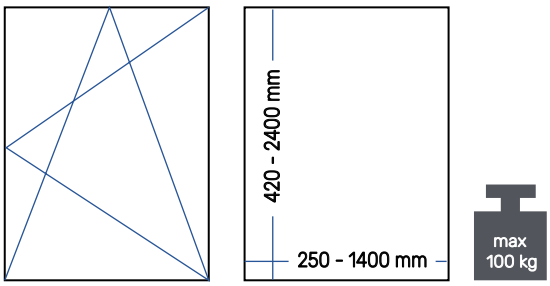
Sash rebate width	Type / length	Pos.	Material
250–410 [2]	150	L	1123306
		R	1123307
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 CENTER LOCK - VERTICAL

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

6 CENTER LOCK - HORIZONTAL

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



7 TILT LOCK BOLT

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

8 STAY BEARING

STAY BEARING WITH PIN K3	1083250

9 CORNER HINGE

CORNER HINGE K3	1083241

10 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

11 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

12 STRIKERS

T&T STRIKER	PAGE 132
STRIKER	PAGE 135

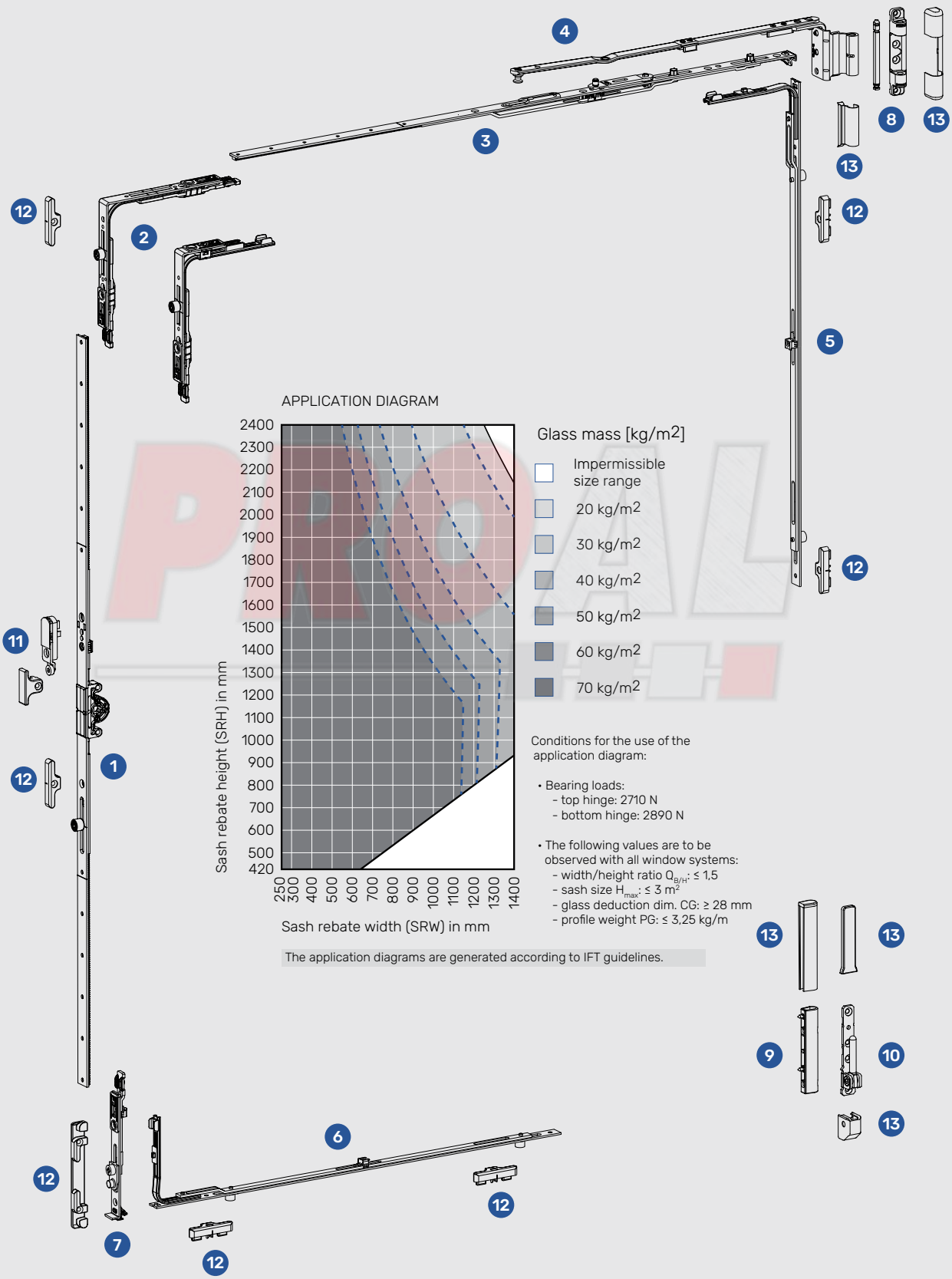
13 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

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



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2710 N
  - bottom hinge: 2890 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

T&TI RC 1 | FACE-FIT HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

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

2 CORNER DRIVE - TOP

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

3 SASH STAY GUIDE

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

4 STAY ARM

ONLY SYSTEM 12/20-13

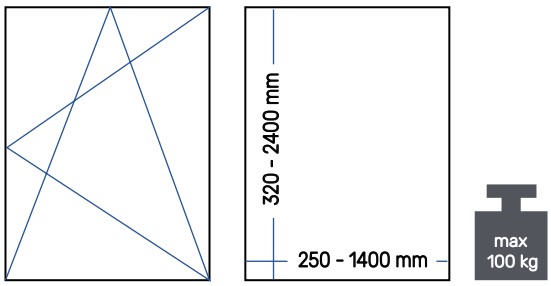
Sash rebate width	Type / length	Pos.	Material
250–410 [4]	150	L	1123306
		R	1123307
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 SECURITY CORNER LOCK

SECURITY CORNER LOCK 180 mm	1 RS	1100987

6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801–1200	400 1 R	1083061
1201–1600	600 1 R	1083062
1601–2000	600 EX 1 R + 600 1 R	1102900+1083062
2001–2200	2 x 600 EX 1 R + 400 1 R	2x1102900+1083061
2201–2400	2 x 600 EX 1 R + 600 1 R	2x1102900+1083062



7 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
340–540	200 1 RS	1101005
541–740	400 1 RS	1101006
741–940	600 1 RS	1101012
941–1140	600 EX 1 R + 200 1 RS	1102900+1101005
1141–1340	600 EX 1 R + 400 1 RS	1102900+1101006
1341–1400	600 EX 1 R + 600 1 RS	1102900+1101012

8 CORNER DRIVE - BOTTOM

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

9 STAY BEARING

STAY BEARING WITH PIN K6	1105598

10 CORNER HINGE

CORNER HINGE K6	1083242

11 CORNER PIVOT REST

CORNER PIVOT REST K6	1105596

12 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

13 STRIKERS

T&Ti STRIKER	PAGE 133
SECURITY STRIKER	PAGE 136
STRIKER	PAGE 135

14 GROOVE SPACER

GROOVE SPACER 12 mm	1127521

15 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

16 ARX HANDLE

ARX HANDLE - lockable	PAGE 145

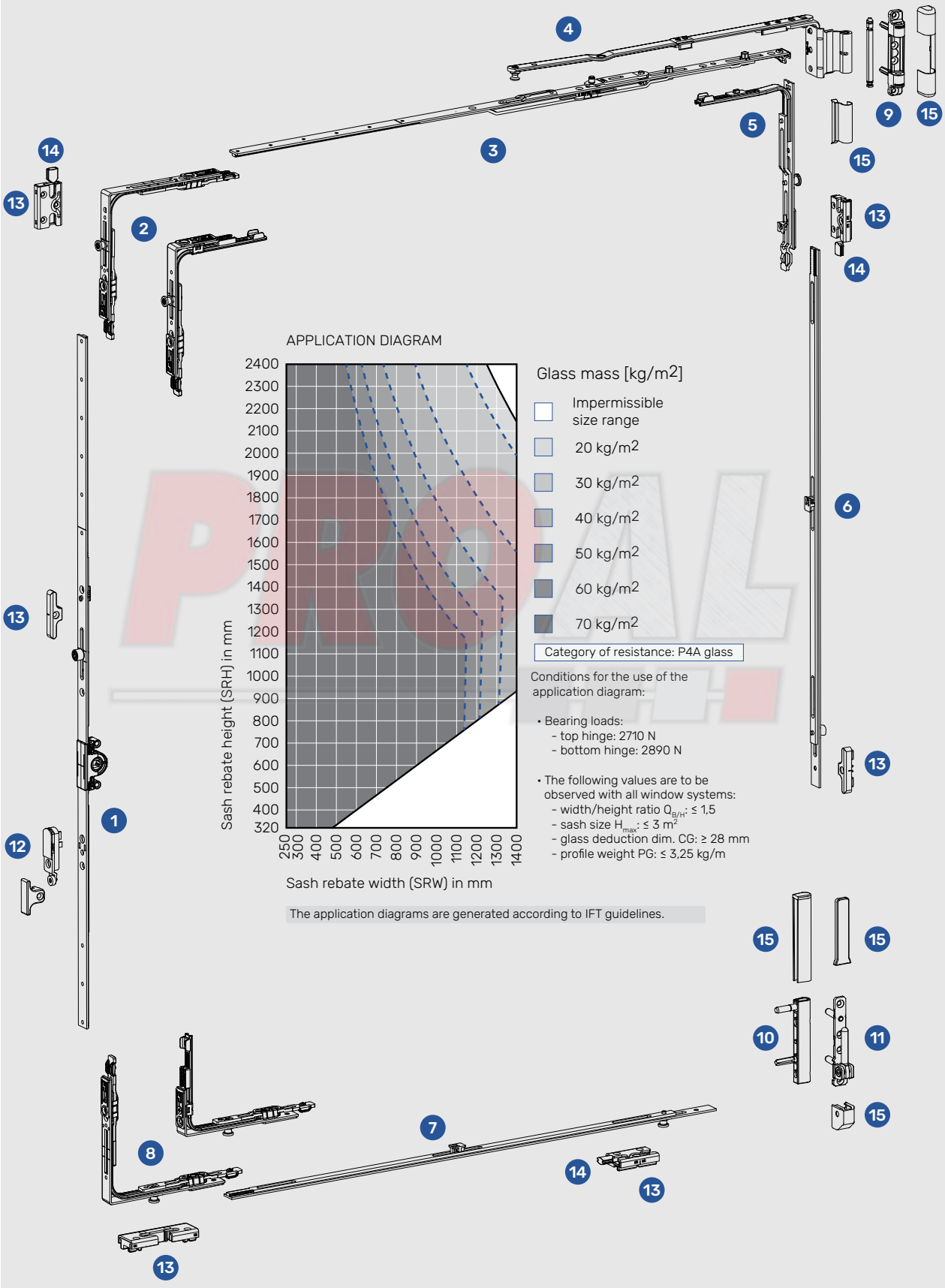
[1] WITH INTEGRATED CORNER DRIVE 1 RS ON BOTTOM

[2] MISHANDLING DEVICE NOT AVAILABLE

[3] MUST USE SHORT CORNER DRIVE **1100986** ON BOTTOM

[4] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

* 4 security locking points
* lockable handle is necessary
* groove spacers are necessary
* SRH < 500 mm, move the anti-slam device to reduce the tilt
* for double sash window, position the RS cam on the upper corner drive into vertical position



RC1 security is a system test meaning, that ARX as a hardware producer can only give recommendations for hardware assembled into finished product (window). ARX can't guarantee that the test will be positive solely on the base of hardware recommendations.

T&TI RC 1 | FACE-FIT HINGE SIDE

Centered / variable handle height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
600–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 CORNER DRIVE - TOP

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

3 SASH STAY GUIDE

Sash rebate width	Type / length		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
1211–1400	500 / 1270	1 R	1083042

4 STAY ARM

ONLY SYSTEM 12/20-13

Sash rebate width	Type / length	Pos.	Material
250–410 [2]	150	L	1123306
		R	1123307
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 SECURITY CORNER LOCK

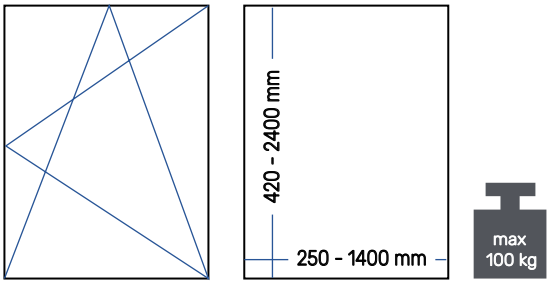
SECURITY CORNER LOCK 180 mm	1 RS	1100987

6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801–1200	400 1 R	1083061
1201–1600	600 1 R	1083062
1601–2000	600 EX 1 R + 600 1 R	1102900+1083062
2001–2200	2 x 600 EX 1 R + 400 1 R	2x1102900+1083061
2201–2400	2 x 600 EX 1 R + 600 1 R	2x1102900+1083062

7 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
340–540	200 1 RS	1101005
541–740	400 1 RS	1101006
741–940	600 1 RS	1101012
941–1140	600 EX 1 R + 200 1 RS	1102900+1101005
1141–1340	600 EX 1 R + 400 1 RS	1102900+1101006
1341–1400	600 EX 1 R + 600 1 RS	1102900+1101012



8 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 RS	1100983

9 STAY BEARING

STAY BEARING WITH PIN K6	1105598

10 CORNER HINGE

CORNER HINGE K6	1083242

11 CORNER PIVOT REST

CORNER PIVOT REST K6	1105596

12 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

13 STRIKERS

T&Ti STRIKER	PAGE 133
SECURITY STRIKER	PAGE 136
STRIKER	PAGE 135

14 GROOVE SPACER

GROOVE SPACER 12 mm	1127521

15 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

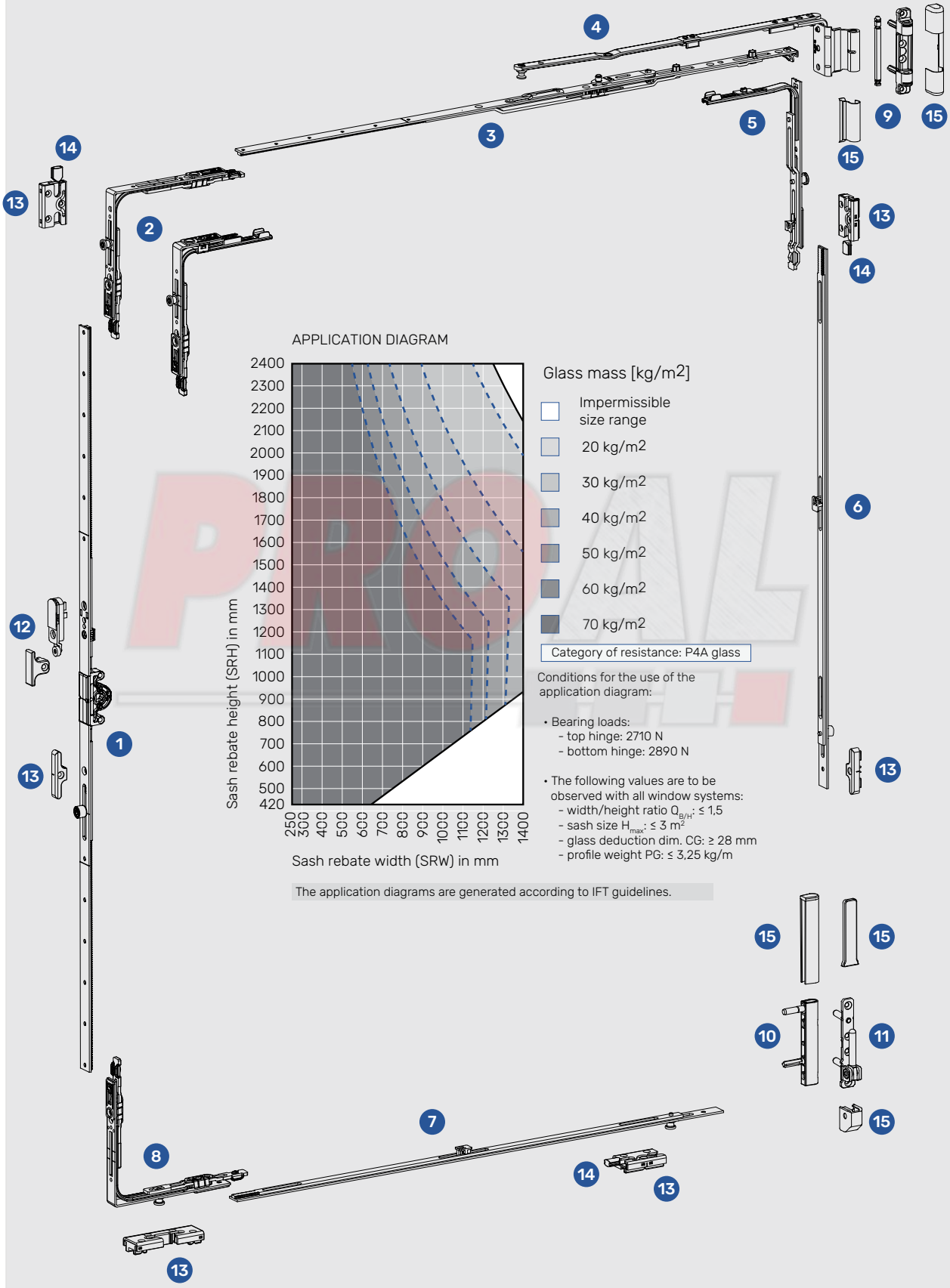
16 ARX HANDLE

ARX HANDLE - lockable	PAGE 145

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE ON TOP

* 4 security locking points
* lockable handle is necessary
* groove spacers are necessary
* SRH < 500 mm, move the anti-slam device to reduce the tilt
* for double sash window, position the RS cam on the upper corner drive into vertical position



RC1 security is a system test meaning, that ARX as a hardware producer can only give recommendations for hardware assembled into finished product (window). ARX can't guarantee that the test will be positive solely on the base of hardware recommendations.

T&TI RC 2 | FACE-FIT HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
320–460 [1) 2)]	120	320		1105430
461–600 [3)]	170	410		1118431
601–800	263	520		1115131
801–1000	413	720	1 RS	1142916
1001–1200	513	920	1 RS	1142919
1201–1400	563	1120	1 RS	1142921
1401–1600	563	1320	1 RS	1142922
1601–1800	563	1520	1 RS	1142923
1601–1800	1000	1520	1 RS	1142924
1801–2000	1000	1720	2 RS	1142925
2001–2200	1000	1920	2 RS	1142926
2201–2400	1000	2120	2 RS	1142927

2 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	2 RS	1100984

3 SASH STAY GUIDE

Sash rebate width	Type / length		Material Nr.
410–610	250 / 470		1083038
611–810	350 / 670		1083039
811–1010	500 / 870	1 RS	1100978
1011–1210	500 / 1070	1 RS	1100980
1211–1400	500 / 1270	1 RS	1100981

4 STAY ARM

ONLY SYSTEM 12/20-13

Sash rebate width	Type / length	Pos.	Material
410–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 SECURITY CORNER LOCK

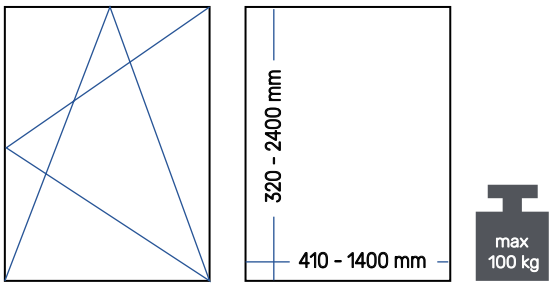
SECURITY CORNER LOCK 180 mm	1 RS	1100987

6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
400-600	200 1 RS	1101005
601-800	400 1 RS	1101006
801-1000	600 1 RS	1101012
1001-1200	400 EX 1 RS + 400 1 RS	1101016 + 1101006
1201-1400	600 EX 1 RS + 400 1 RS	1101017 + 1101006
1401-1600	600 EX 1 RS + 600 1 RS	1101017 + 1101012
1601-1800	2x 600 EX 1 RS + 200 1 RS	2x 1101017 + 1101005
1801-2000	2x 600 EX 1 RS + 400 1 RS	2x 1101017 + 1101006
2001-2400	2x 600 EX 1 RS + 600 1 RS	2x 1101017 + 1101012

7 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
410–540	200 1 RS	1101005
541–740	400 1 RS	1101006
741–940	600 1 RS	1101012
941–1140	400 EX 1 RS + 400 1 RS	1101016 + 1101006
1141–1340	600 EX 1 RS + 400 1 RS	1101017 + 1101006
1341–1400	600 EX 1 RS + 600 1 RS	1101017 + 1101012



8 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	2 RS	1100984
SHORT CORNER DRIVE	1 RS	1100986

9 STAY BEARING

STAY BEARING WITH PIN K6	1105598

10 CORNER HINGE

CORNER HINGE K6	1083242

11 CORNER PIVOT REST

CORNER PIVOT REST K6	1105596

12 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 141

13 STRIKERS

T&Ti STRIKER	PAGE 137
SECURITY STRIKER	PAGE 140

14 GROOVE SPACER

GROOVE SPACER 12 mm	1127521

15 COVER CAPS

STAY BEARING	PAGE 134
STAY ARM	PAGE 134
CORNER HINGE	PAGE 134
CORNER PIVOT REST	PAGE 134
CORNER PIVOT REST - FLAT	PAGE 134

16 ARX HANDLE

ARX HANDLE - lockable	PAGE 175

17 DRILLING PROTECTION

DRILLING PROTECTION RC2	1112748

[1)] WITH INTEGRATED CORNER DRIVE 1 RS ON BOTTOM

[2)] MISHANDLING DEVICE NOT AVAILABLE

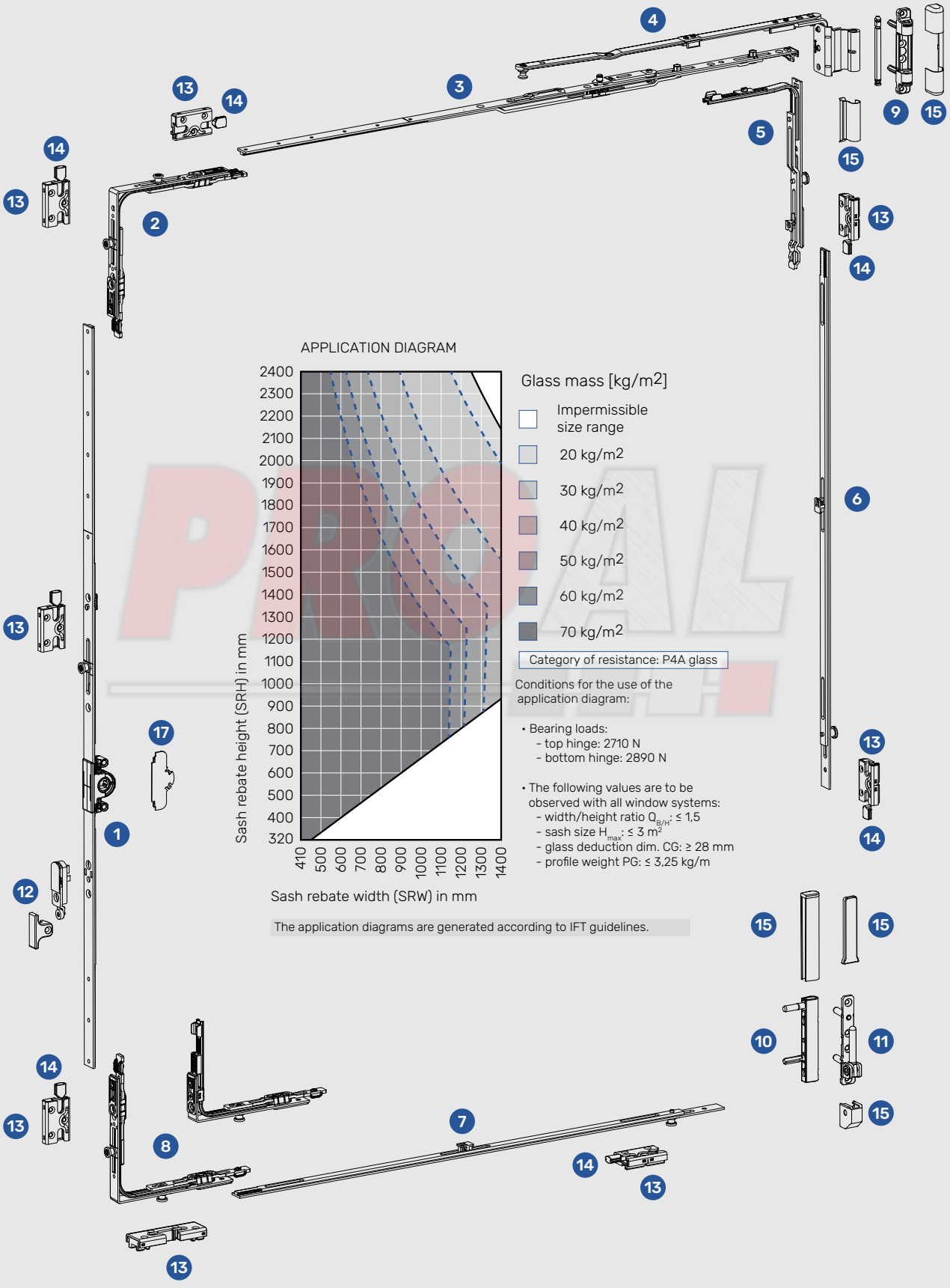
[3)] MUST USE SHORT CORNER DRIVE **1100986** ON BOTTOM

* drilling protection is necessary

* lockable handle is necessary

* groove spacers are necessary

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



RC2 security is a system test meaning, that ARX as a hardware producer can only give recommendations for hardware assembled into finished product (window). ARX can't guarantee that the test will be positive solely on the base of hardware recommendations.

T&TI RC 2 | FACE-FIT HINGE SIDE

Centered / variable handle height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
600–1000	300–500	720	1 RS	1101035
900–1400	450–700	1120	1 RS	1101036
1401–1800	701–900	1520	1 RS	1101037
1601–2000	801–1000	1720	2 RS	1101038
2001–2400	1001–1200	2120	2 RS	1101039

2 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	2 RS	1100984

3 SASH STAY GUIDE

Sash rebate width	Type / length		Material Nr.
410–610	250 / 470		1083038
611–810	350 / 670		1083039
811–1010	500 / 870	1 RS	1100978
1011–1210	500 / 1070	1 RS	1100980
1211–1400	500 / 1270	1 RS	1100981

4 STAY ARM

ONLY SYSTEM 12/20-13

Sash rebate width	Type / length	Pos.	Material
410–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

5 SECURITY CORNER LOCK

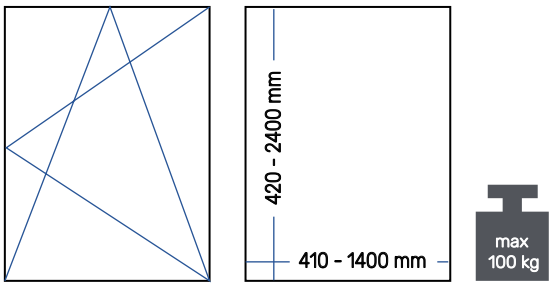
SECURITY CORNER LOCK 180 mm	1 RS	1100987

6 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
420-600	200 1 RS	1101005
601-800	400 1 RS	1101006
801-1000	600 1 RS	1101012
1001-1200	400 EX 1 RS + 400 1 RS	1101016 + 1101006
1201-1400	600 EX 1 RS + 400 1 RS	1101017 + 1101006
1401-1600	600 EX 1 RS + 600 1 RS	1101017 + 1101012
1601-1800	2x 600 EX 1 RS + 200 1 RS	2x 1101017 + 1101005
1801-2000	2x 600 EX 1 RS + 400 1 RS	2x 1101017 + 1101006
2001-2400	2x 600 EX 1 RS + 600 1 RS	2x 1101017 + 1101012

7 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
410–540	200 1 RS	1101005
541–740	400 1 RS	1101006
741–940	600 1 RS	1101012
941–1140	400 EX 1 RS + 400 1 RS	1101016 + 1101006
1141–1340	600 EX 1 RS + 400 1 RS	1101017 + 1101006
1341–1400	600 EX 1 RS + 600 1 RS	1101017 + 1101012



8 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	2 RS	1100984

9 STAY BEARING

STAY BEARING WITH PIN K6	1105598

10 CORNER HINGE

CORNER HINGE K6	1083242

11 CORNER PIVOT REST

CORNER PIVOT REST K6	1105596

12 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 141

13 STRIKERS

T&Ti STRIKER	PAGE 137
SECURITY STRIKER	PAGE 140

14 GROOVE SPACER

GROOVE SPACER 12 mm	1127521

15 COVER CAPS

STAY BEARING	PAGE 134
STAY ARM	PAGE 134
CORNER HINGE	PAGE 134
CORNER PIVOT REST	PAGE 134
CORNER PIVOT REST - FLAT	PAGE 134

16 ARX HANDLE

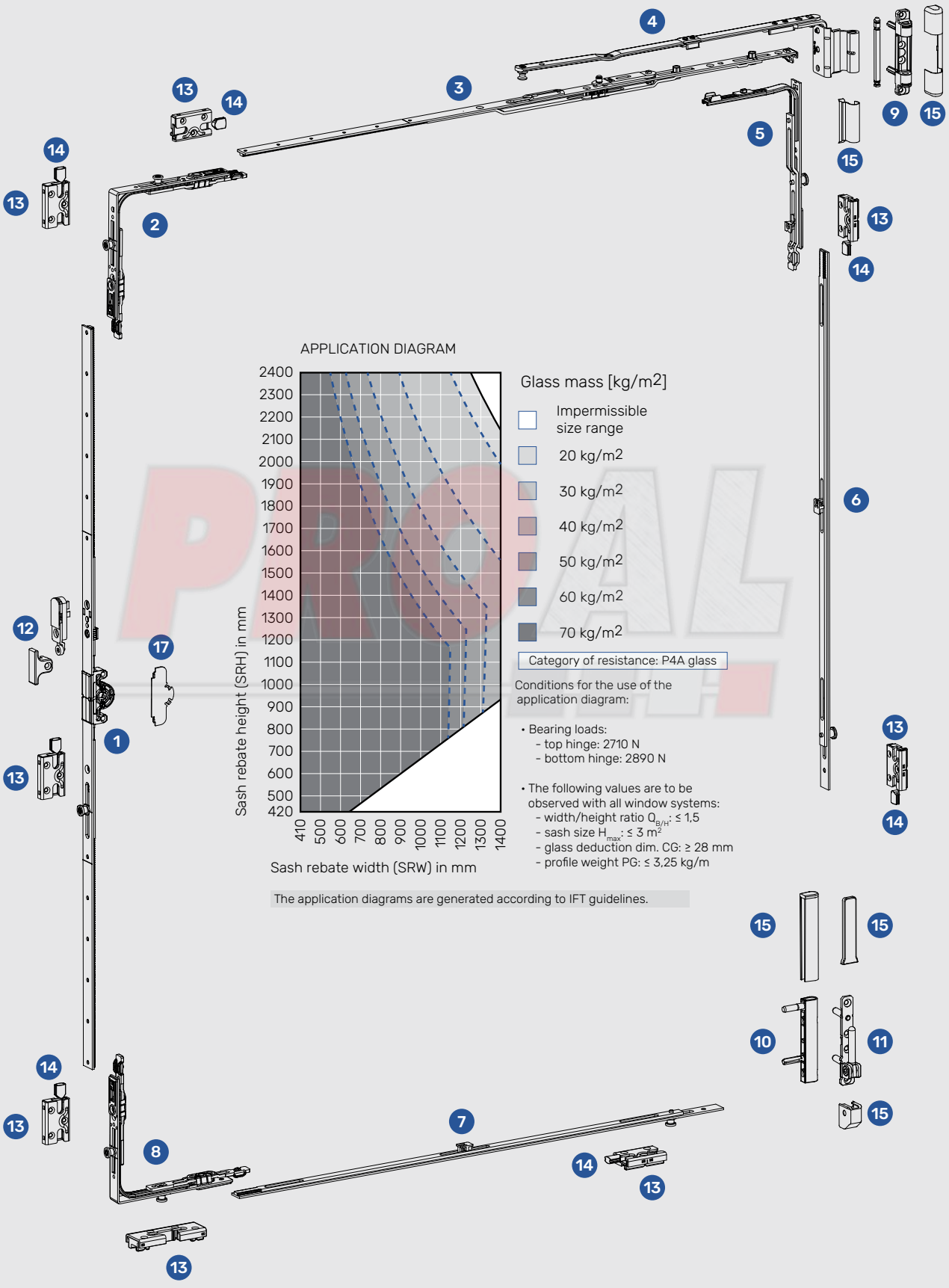
ARX HANDLE - lockable	PAGE 175

17 DRILLING PROTECTION

DRILLING PROTECTION RC2	1112748

* drilling protection is necessary
* lockable handle is necessary
* groove spacers are necessary
* SRH < 500 mm, move the anti-slam device to reduce the tilt

[1] MISHANDLING DEVICE NOT AVAILABLE



RC2 security is a system test meaning, that ARX as a hardware producer can only give recommendations for hardware assembled into finished product (window). ARX can't guarantee that the test will be positive solely on the base of hardware recommendations.

T&TI | CONCEALED HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

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

2 CORNER DRIVE - TOP

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

3 SASH STAY GUIDE

SASH STAY GUIDE CONCEALED [4] [5] — PAGE 123

4 STAY ARM

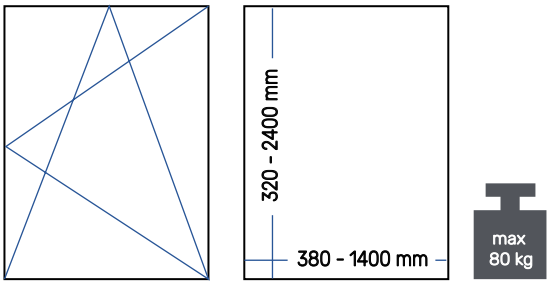
STAY ARM CONCEALED 12/20-13 [5] — PAGE 124

5 CENTER LOCK - VERTICAL

Sash rebate height	Length		Material
801–1200	500 / 550	2 R	1083058
1201–1700	800 / 850	2 R	1083059
1701–2100	1500 / 1550	3 R	1083060
2101–2400	1950 / 2000	4 R	1083064

6 CENTER LOCK - HORIZONTAL

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



7 CORNER DRIVE - BOTTOM

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

8 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

9 CORNER PIVOT

CORNER PIVOT CONCEALED [5] — PAGE 126

10 MISHANDLING DEVICE

SASH PART — 1093907

FRAME PART — PAGE 137

11 STRIKERS

T&Ti STRIKER — PAGE 133

STRIKER — PAGE 135

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [5] — 1136166

13 PACKERS

STAY ARM — PAGE 127

CORNER PIVOT — PAGE 127

TURN LIMITER — PAGE 127

[1] WITH INTEGRATED CORNER DRIVE 1 RS ON BOTTOM

[2] MISHANDLING DEVICE NOT AVAILABLE

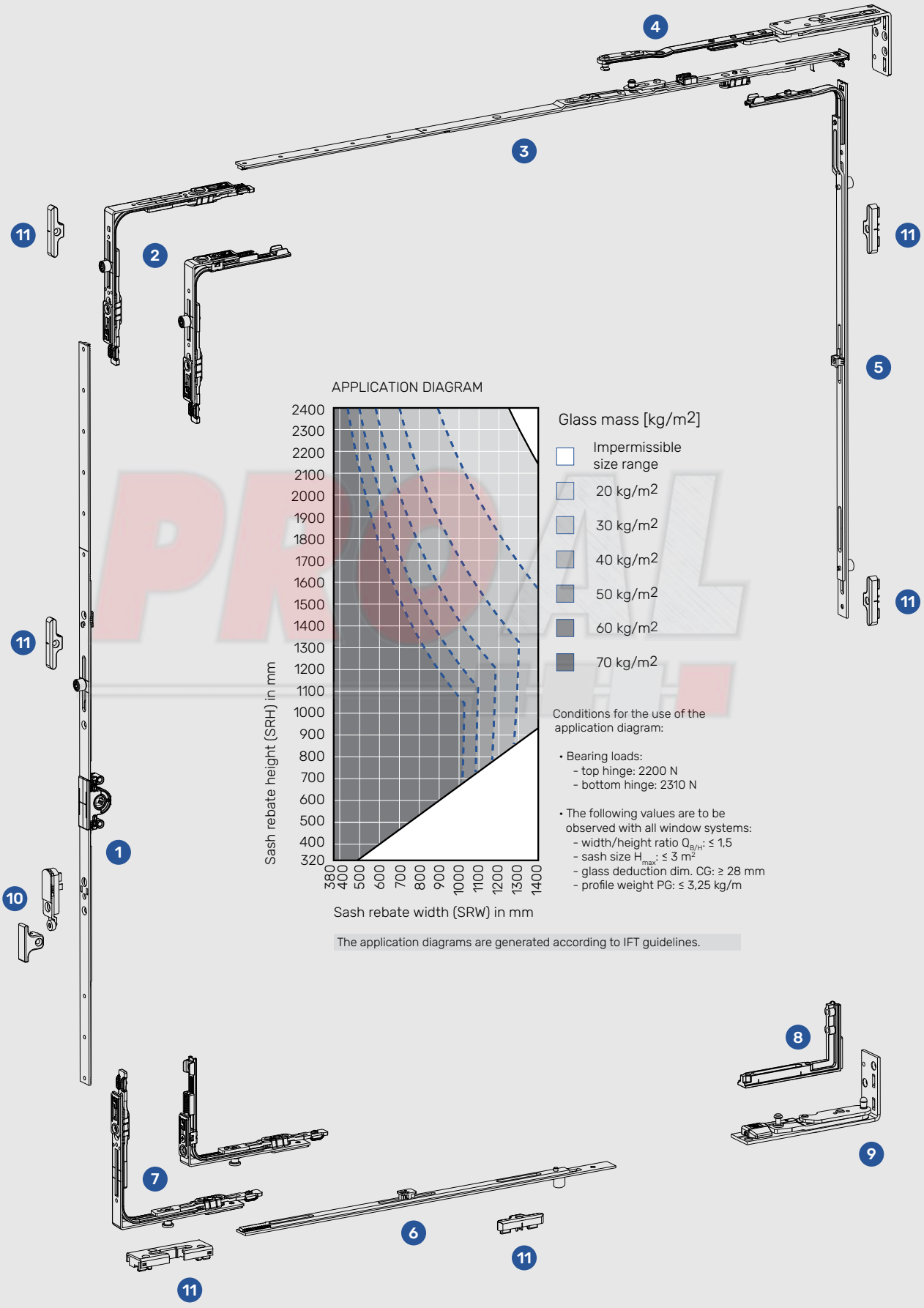
[3] MUST USE SHORT CORNER DRIVE **1100986** ON BOTTOM

[4] SRW = 380 - 470 mm, WITH SHORT CORNER DRIVE ON TOP

[5] WITHOUT PACKERS - SEE 13

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

* 5 special range of use because of corner hinge



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

T&TI | CONCEALED HINGE SIDE

Centered / variable handle height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
600–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 CORNER DRIVE - TOP

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

3 SASH STAY GUIDE

SASH STAY GUIDE CONCEALED [2] PAGE 123

4 STAY ARM

STAY ARM CONCEALED 12/20-13 [3] PAGE 124

5 CENTER LOCK - VERTICAL

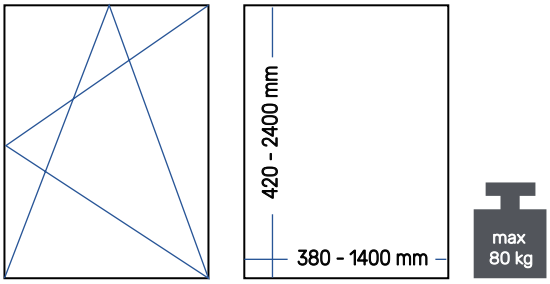
Sash rebate height	Length		Material
801–1200	500 / 550	2 R	1083058
1201–1700	800 / 850	2 R	1083059
1701–2100	1500 / 1550	3 R	1083060
2101–2400	1950 / 2000	4 R	1083064

6 CENTER LOCK - HORIZONTAL

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

7 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 RS	1100983



8 CORNER HINGE

CORNER HINGE CONCEALED 1136163

9 CORNER PIVOT

CORNER PIVOT CONCEALED [3] PAGE 126

10 MISHANDLING DEVICE

SASH PART 1093907

FRAME PART PAGE 137

11 STRIKERS

T&Ti STRIKER PAGE 133

STRIKER PAGE 135

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [3] 1136166

13 PACKERS

STAY ARM PAGE 127

CORNER PIVOT PAGE 127

TURN LIMITER PAGE 127

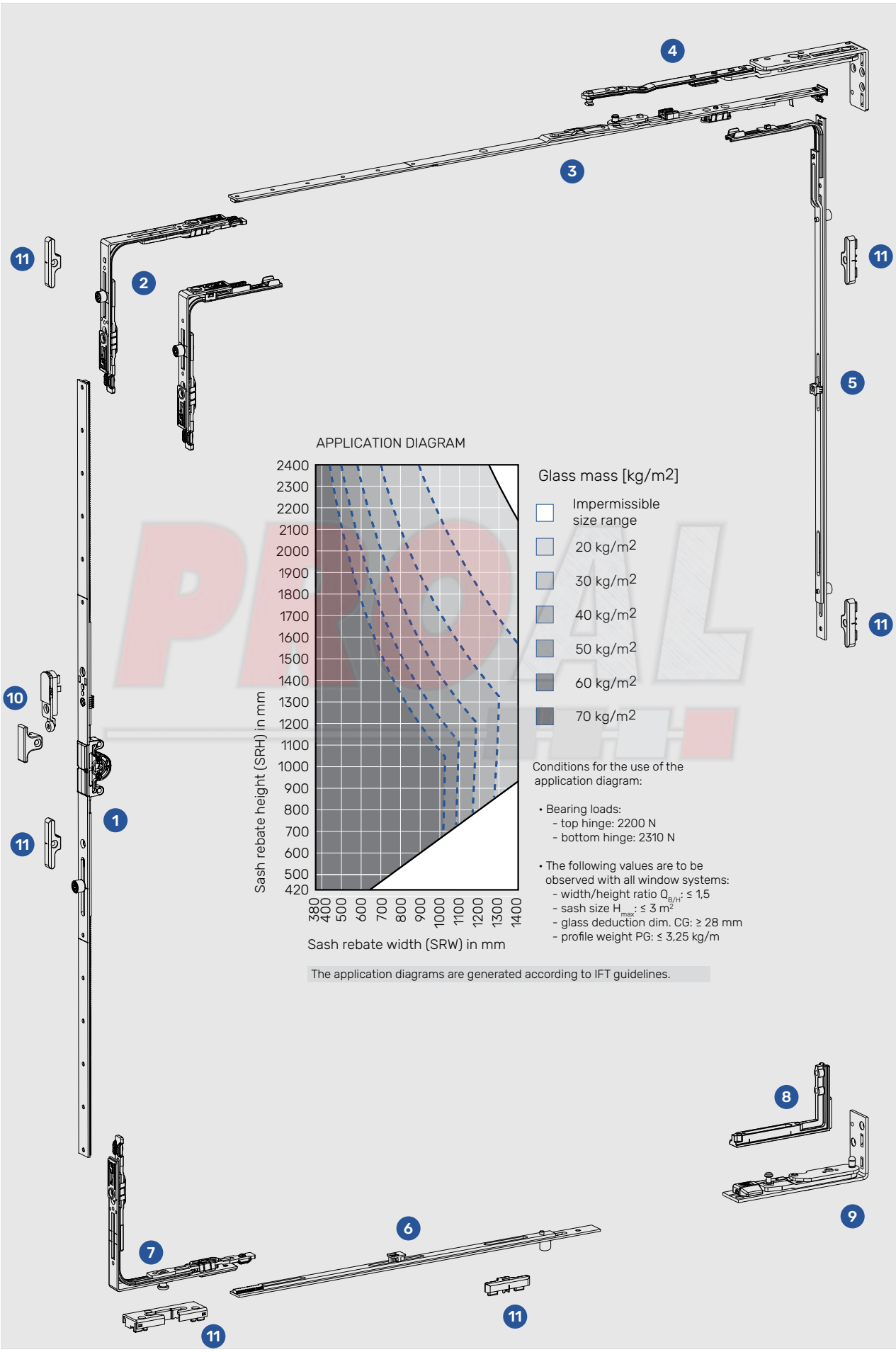
[1] MISHANDLING DEVICE NOT AVAILABLE

[2] SRW = 380 - 470 mm, WITH SHORT CORNER DRIVE ON TOP

[3] WITHOUT PACKERS - SEE 13

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

* 5 special range of use because of corner hinge



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size $H_{max.}$: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

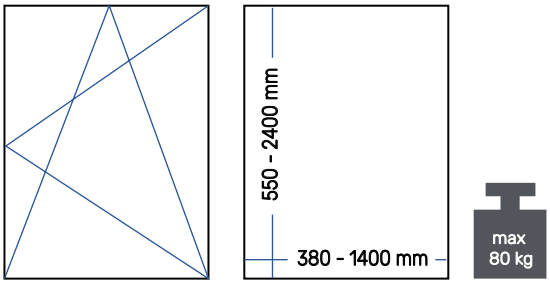
The application diagrams are generated according to IFT guidelines.

T&T | CONCEALED HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

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



2 CORNER DRIVE

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

3 SASH STAY GUIDE

SASH STAY GUIDE CONCEALED [1) 2)] — PAGE 123

4 STAY ARM

STAY ARM CONCEALED 12/20-13 [2)] — PAGE 124

5 CENTER LOCK - VERTICAL

Sash rebate height	Length		Material
801–1200	500 / 550	2 R	1083058
1201–1700	800 / 850	2 R	1083059
1701–2100	1500 / 1550	3 R	1083060
2101–2400	1950 / 2000	4 R	1083064

6 CENTER LOCK - HORIZONTAL

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

7 TILT LOCK BOLT

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

8 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

9 CORNER PIVOT

CORNER PIVOT CONCEALED [2)] — PAGE 126

10 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

11 STRIKERS

T&T STRIKER	PAGE 132
STRIKER	PAGE 135

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [2)] — 1136166

13 PACKERS

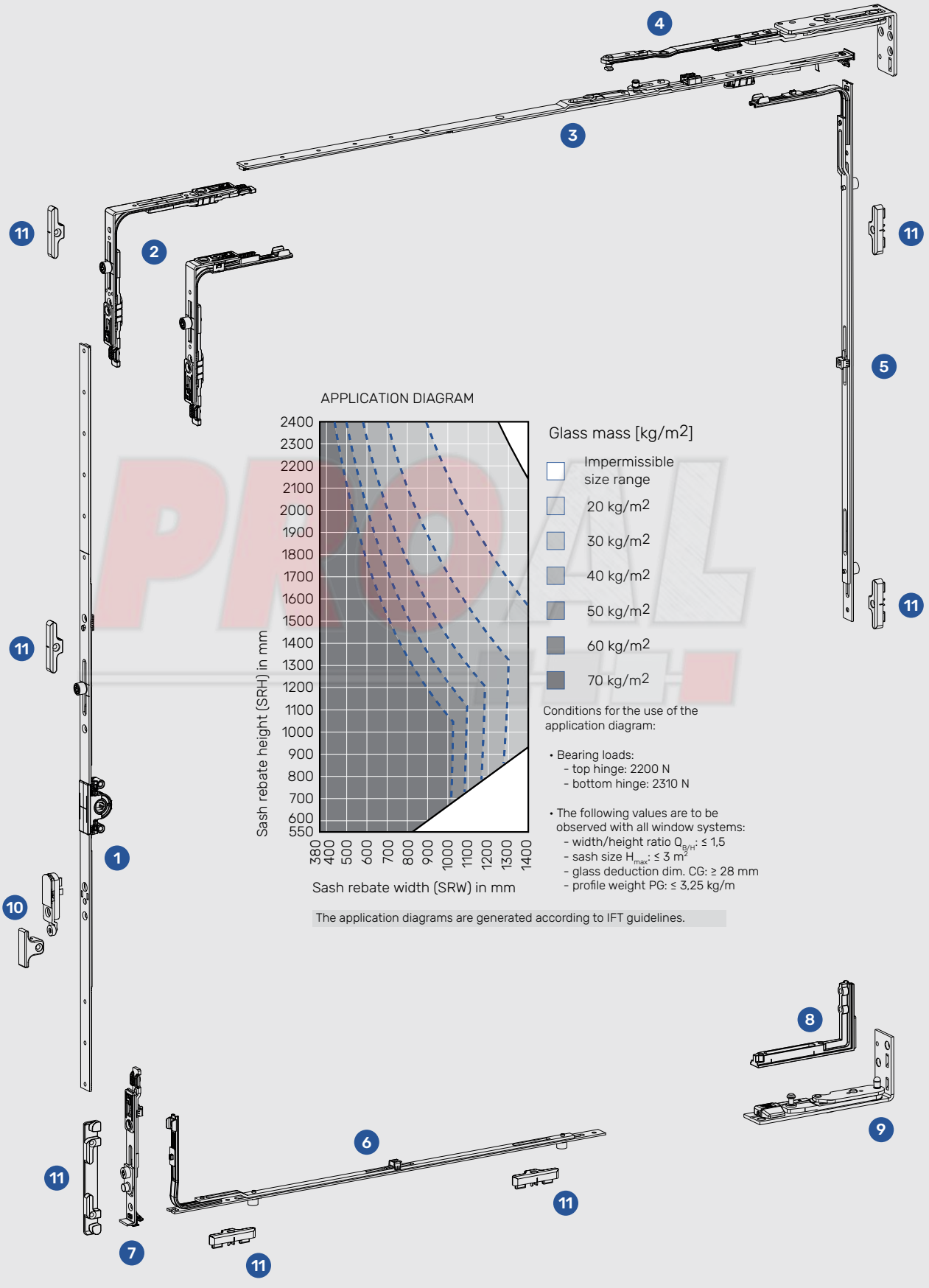
STAY ARM	PAGE 127
CORNER PIVOT	PAGE 127
TURN LIMITER	PAGE 127

[1)] SRW = 380 - 470 mm, WITH SHORT CORNER DRIVE ON TOP

[2)] WITHOUT PACKERS - SEE 13

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

* 5 special range of use because of corner hinge



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

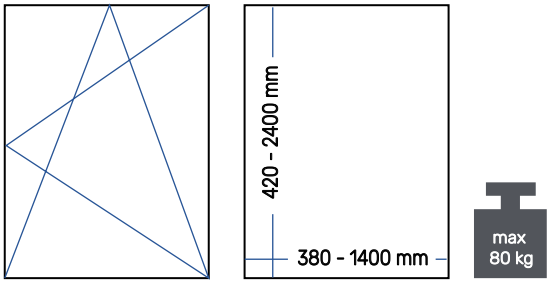
Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

T&T | CONCEALED HINGE SIDE

Centered / variable handle height



1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
600–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 CORNER DRIVE

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

3 SASH STAY GUIDE

SASH STAY GUIDE CONCEALED [2] [3] — PAGE 123

4 STAY ARM

STAY ARM CONCEALED 12/20-13 [3] — PAGE 124

5 CENTER LOCK - VERTICAL

Sash rebate height	Length		Material
801–1200	500 / 550	2 R	1083058
1201–1700	800 / 850	2 R	1083059
1701–2100	1500 / 1550	3 R	1083060
2101–2400	1950 / 2000	4 R	1083064

6 CENTER LOCK - HORIZONTAL

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

7 TILT LOCK BOLT

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

8 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

9 CORNER PIVOT

CORNER PIVOT CONCEALED [3] — PAGE 126

10 MISHANDLING DEVICE

SASH PART — 1093907

FRAME PART — PAGE 137

11 STRIKERS

T&T STRIKER — PAGE 132

STRIKER — PAGE 135

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [3] — 1136166

13 PACKERS

STAY ARM — PAGE 127

CORNER PIVOT — PAGE 127

TURN LIMITER — PAGE 127

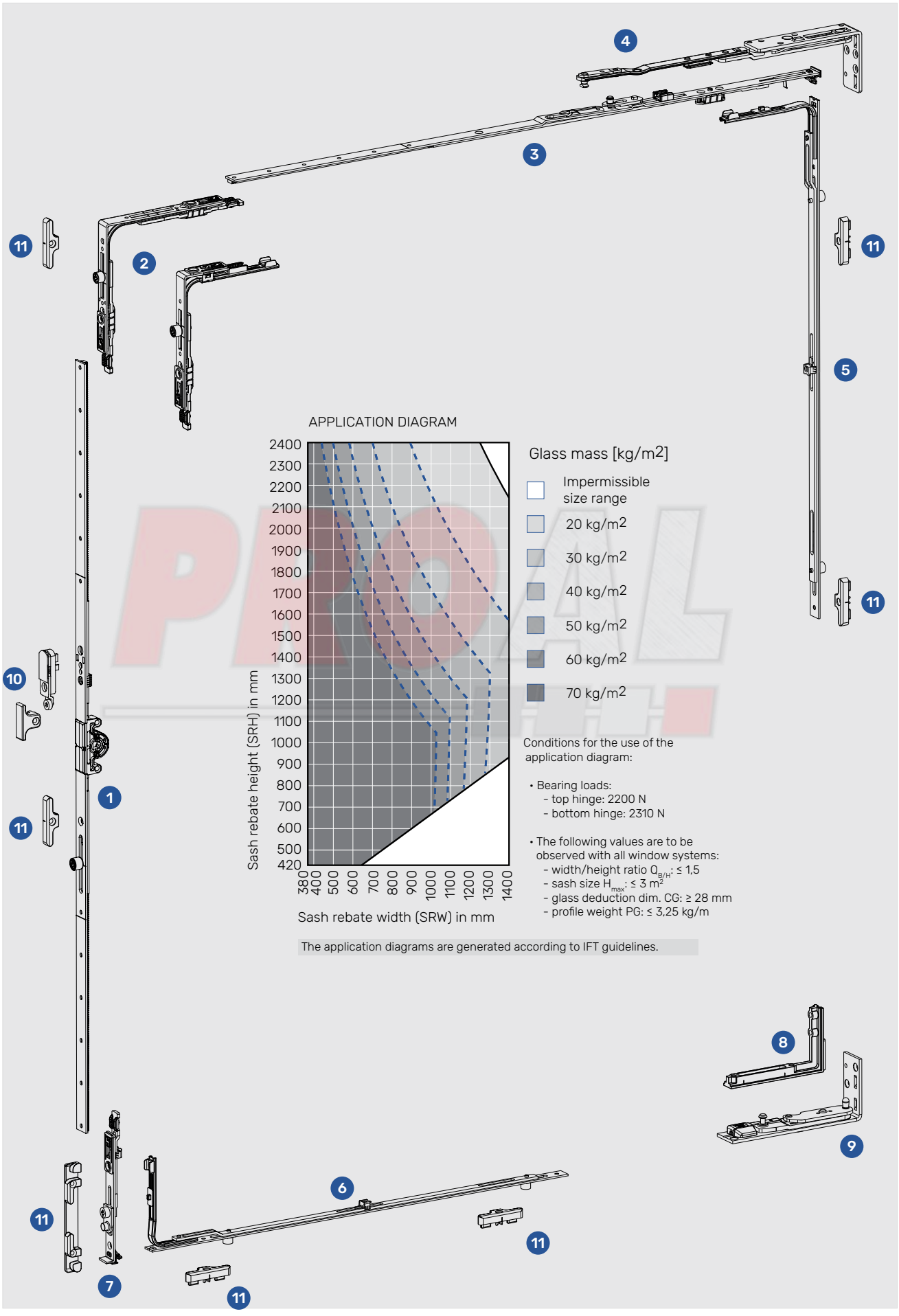
[1] MISHANDLING DEVICE NOT AVAILABLE

[2] SRW = 380 - 470 mm, WITH SHORT CORNER DRIVE ON TOP

[3] WITHOUT PACKERS - SEE 13

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

* 5 special range of use because of corner hinge



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

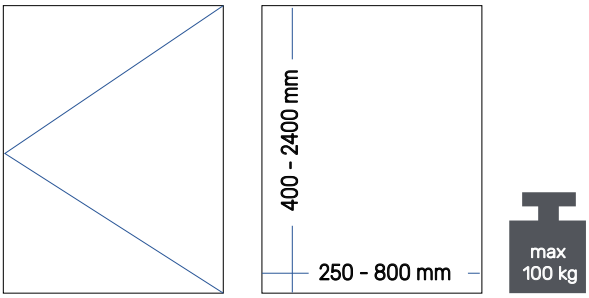
Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

TURN - BASIC | FACE-FIT HINGE SIDE

Fixed handle height



1 ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
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

2 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

3 STAY BEARING

STAY BEARING WITH PIN K3	1083250

4 CORNER HINGE

CORNER HINGE K3	1083241

5 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

6 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

7 STRIKERS

STRIKER	PAGE 135

8 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

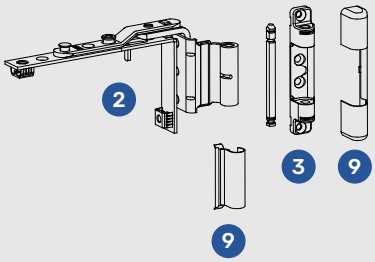
9 COVER CAPS

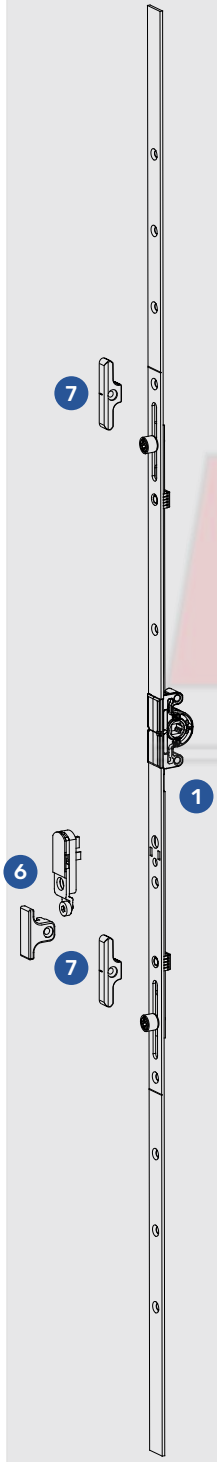
STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

PRO AL

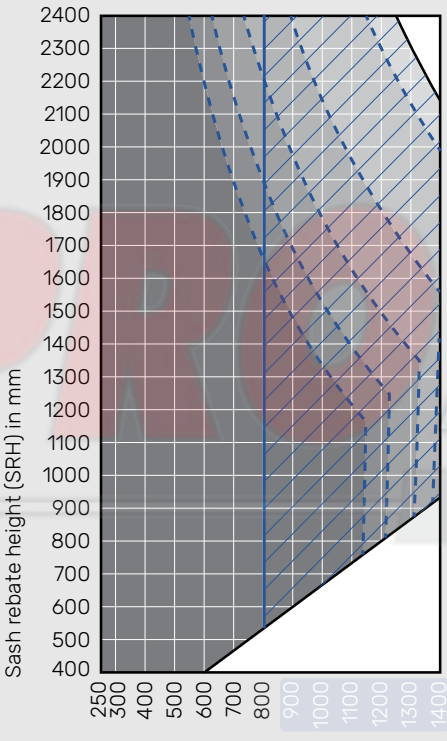
[1] MISHANDLING DEVICE NOT AVAILABLE

* mishandling device serves as a sash lifter
* for SRW > 800 mm, next scheme (STANDARD) is recommended





APPLICATION DIAGRAM



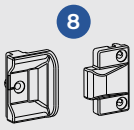
Glass mass [kg/m2]

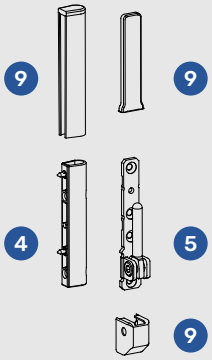
- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2710 N
  - bottom hinge: 2890 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

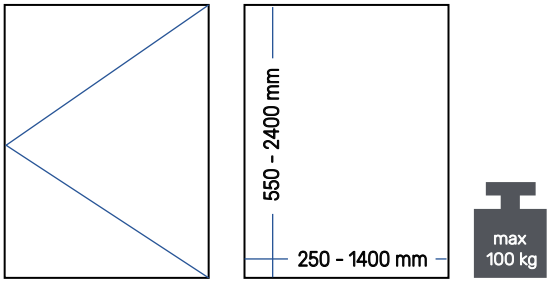
The application diagrams are generated according to IFT guidelines.





TURN - STANDARD | FACE-FIT HINGE SIDE

Fixed handle height



1 KV ESPAGNOLETTE BS 14,5 mm

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

2 LOCK BOLT - BOTTOM

LOCK BOLT 140	1 R	1102394

3 LOCK BOLT - TOP

LOCK BOLT 140/90	1 R	1102395

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

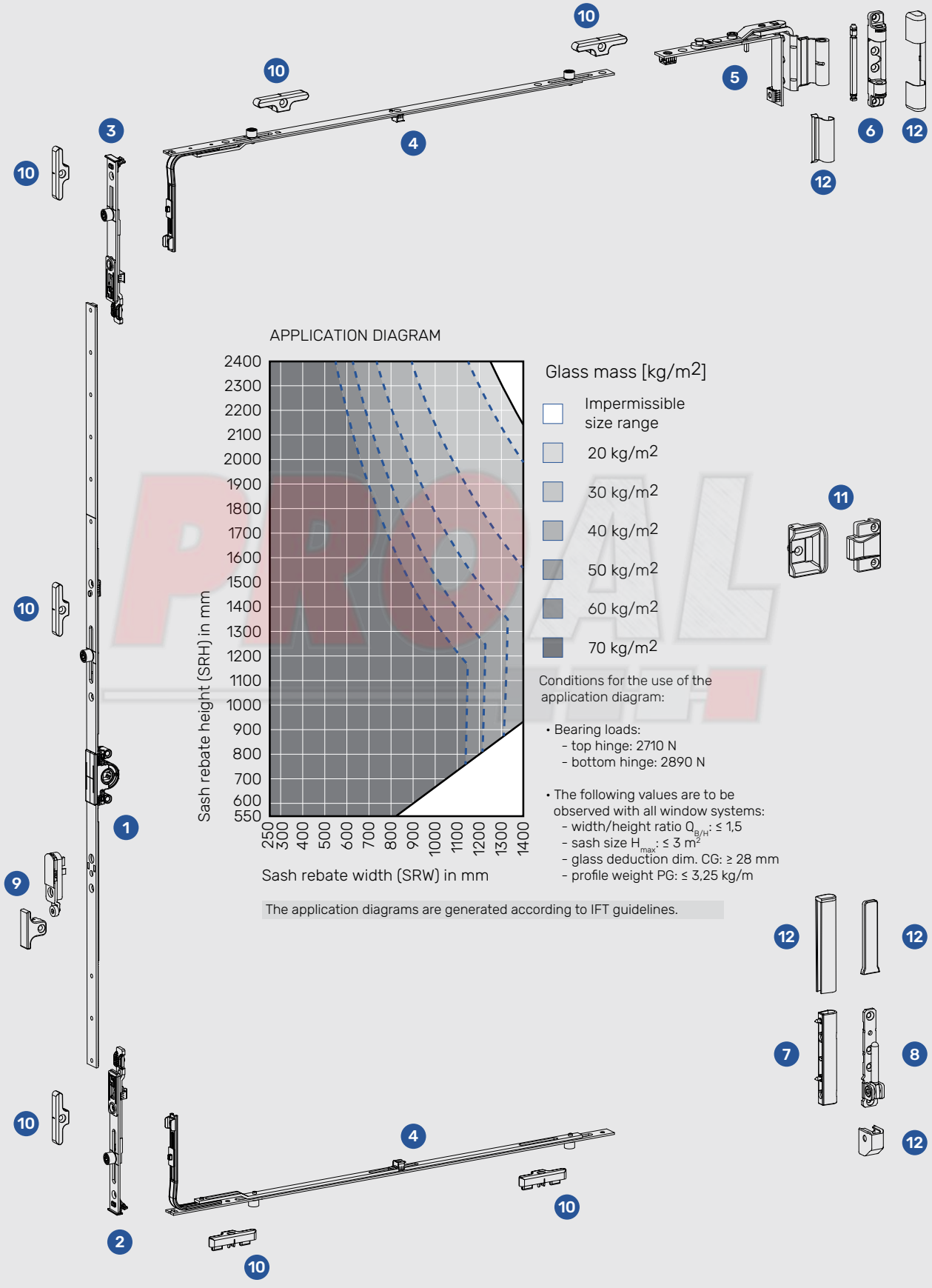
SASH PART	1127509
FRAME PART	PAGE 141

12 COVER CAPS

STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

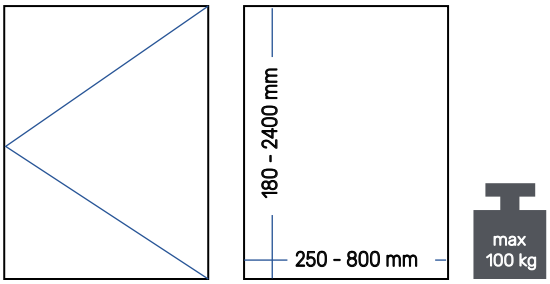
* mishandling device serves as a sash lifter

PROAL


APPLICATION DIAGRAM
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
550
250
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.

TURN - BASIC | FACE-FIT HINGE SIDE

Centered / variable handle height



1 ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
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

2 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

3 STAY BEARING

STAY BEARING WITH PIN K3	1083250

4 CORNER HINGE

CORNER HINGE K3	1083241

5 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

6 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

7 STRIKERS

STRIKER	PAGE 135

8 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

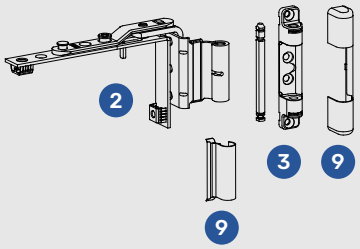
9 COVER CAPS

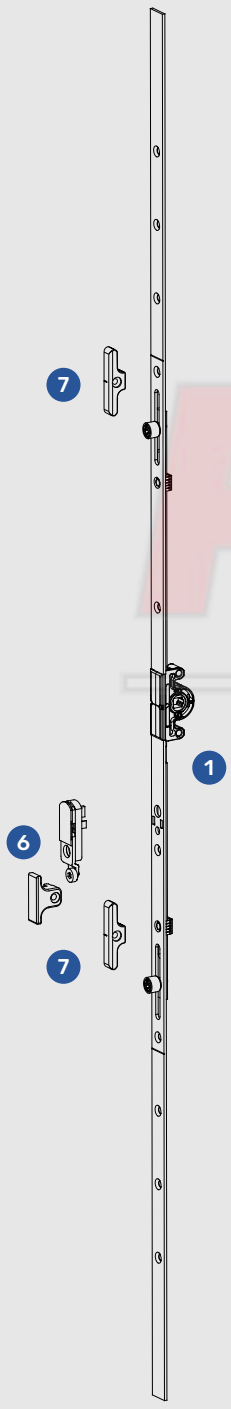
STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

PRO AL

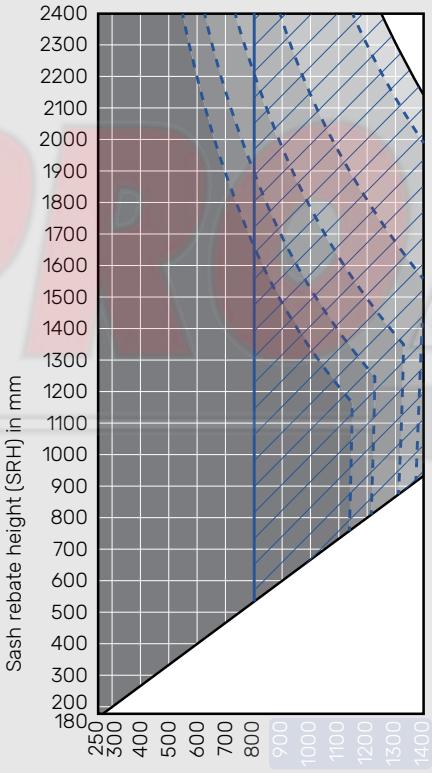
[1] MISHANDLING DEVICE NOT AVAILABLE

* mishandling device serves as a sash lifter
* for SRW > 800 mm, next scheme (STANDARD) is recommended



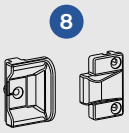


APPLICATION DIAGRAM



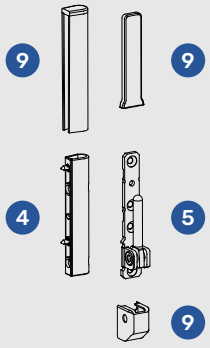
Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2



Conditions for the use of the application diagram:

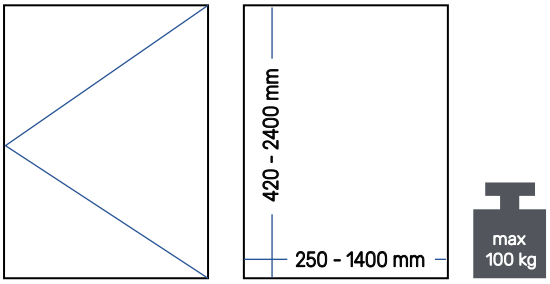
- Bearing loads:
  - top hinge: 2710 N
  - bottom hinge: 2890 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m



The application diagrams are generated according to IFT guidelines.

TURN - STANDARD | FACE-FIT HINGE SIDE

Centered / variable handle height



1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1)]	210–330	380		1083117
601–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–200	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 LOCK BOLT - BOTTOM

LOCK BOLT 140	1 R	1102394

3 LOCK BOLT - TOP

LOCK BOLT 140/90	1 R	1102395

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

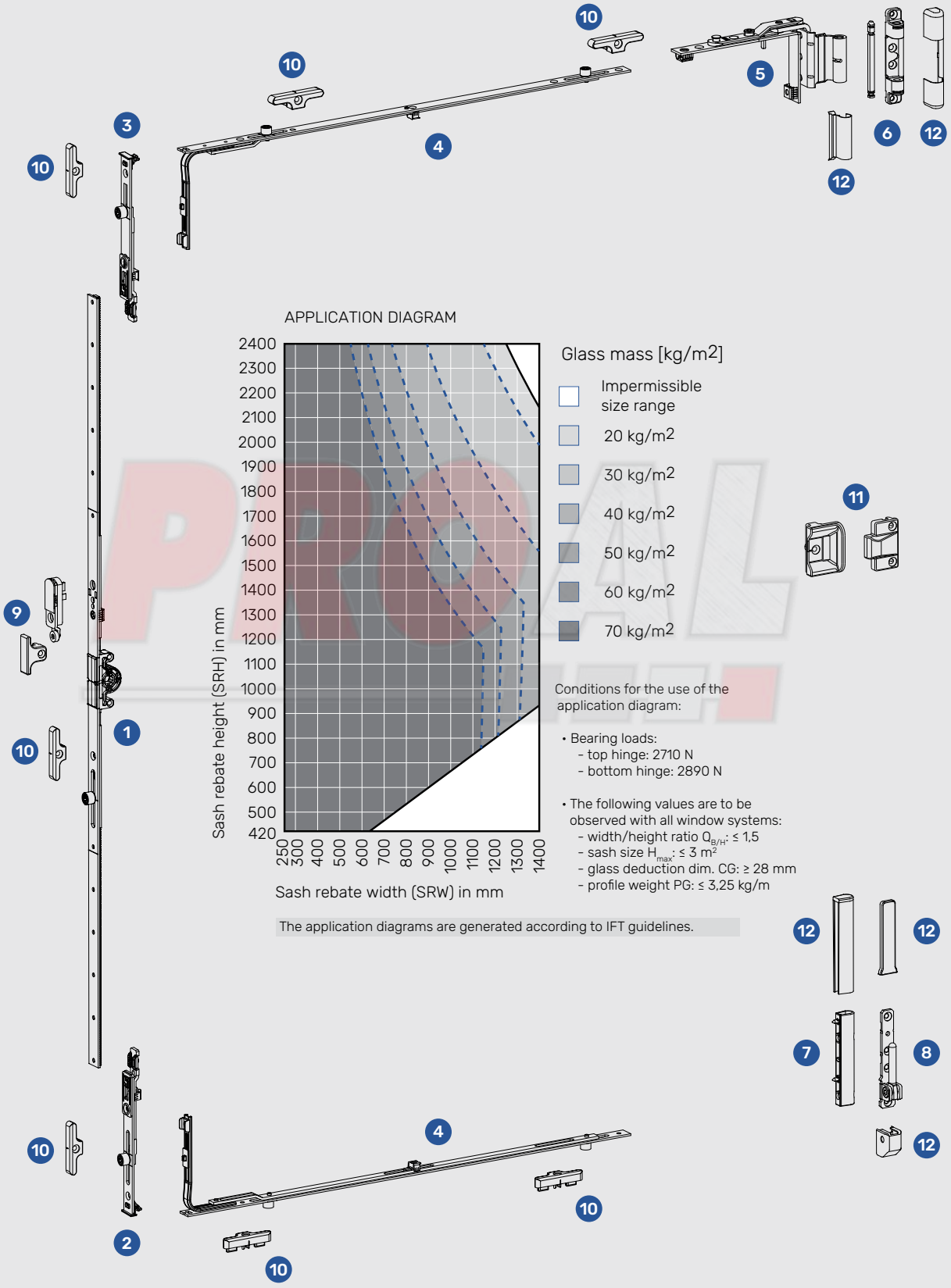
SASH PART	1127509
FRAME PART	PAGE 141

12 COVER CAPS

STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1)] MISHANDLING DEVICE NOT AVAILABLE

* mishandling device serves as a sash lifter

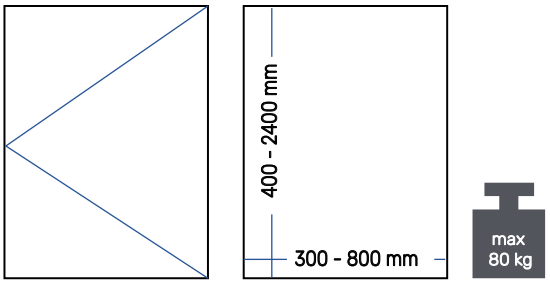

APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
420
250
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.

TURN - BASIC | CONCEALED HINGE SIDE

Fixed handle height

1 ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
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



2 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2] — PAGE 125

3 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE — 1141516

4 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

5 CORNER PIVOT

CORNER PIVOT CONCEALED [2] — PAGE 126

6 MISHANDLING DEVICE

SASH PART — 1093907

FRAME PART — PAGE 137

7 STRIKERS

STRIKER — PAGE 135

8 CONCEALED STRIKER

SASH PART — 1127509

FRAME PART — PAGE 141

9 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [2] — 1136166

10 PACKERS

REBATE STAY ARM — PAGE 127

CORNER PIVOT — PAGE 127

TURN LIMITER — PAGE 127

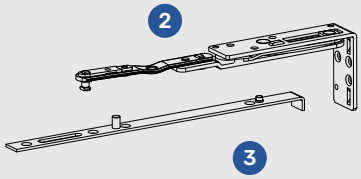
PROAL

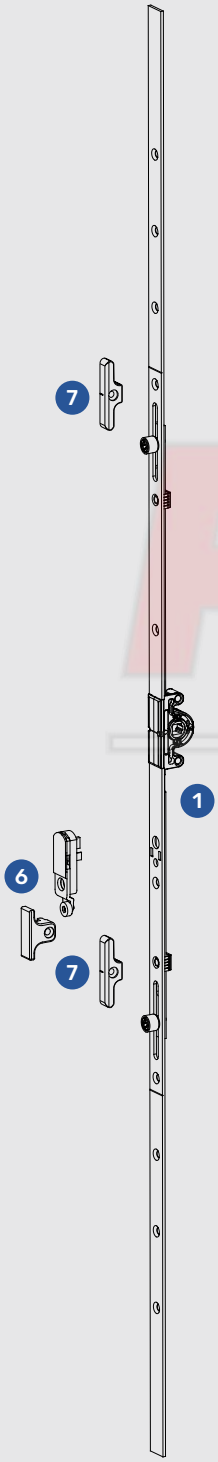
[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 10

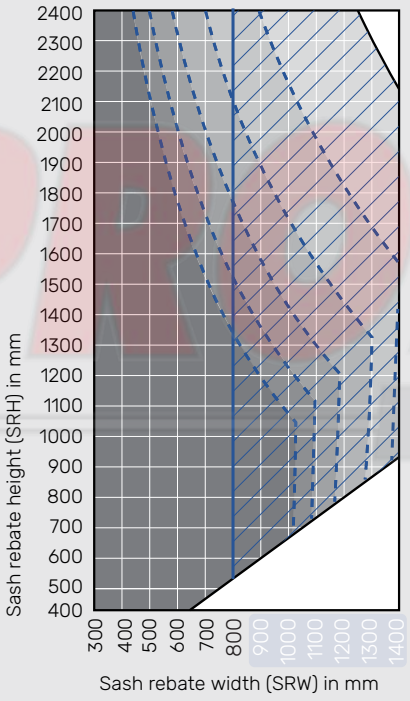
* mishandling device serves as a sash lifter

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





APPLICATION DIAGRAM



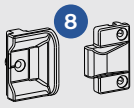
Glass mass [kg/m2]

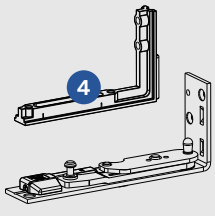
- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

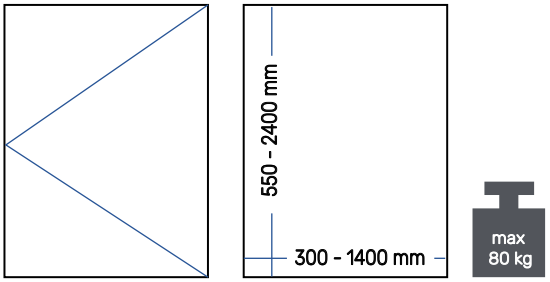




5

TURN - STANDARD | CONCEALED HINGE SIDE

Fixed handle height



1 KV ESPAGNOLETTE BS 14,5 mm

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

2 LOCK BOLT - BOTTOM

LOCK BOLT 140	1 R	1102394

3 LOCK BOLT - TOP

LOCK BOLT 140/90	1 R	1102395

4 CENTER LOCK

Sash rebate width	Lenght		Material
821–1200	500 / 550	2 R	1083058
1201–1400	800 / 850	2 R	1083059

5 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2]	PAGE 125

6 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE	1141516

7 CORNER HINGE

CORNER HINGE CONCEALED	1136163

8 CORNER PIVOT

CORNER PIVOT CONCEALED [2]	PAGE 126

9 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [2]	1136166

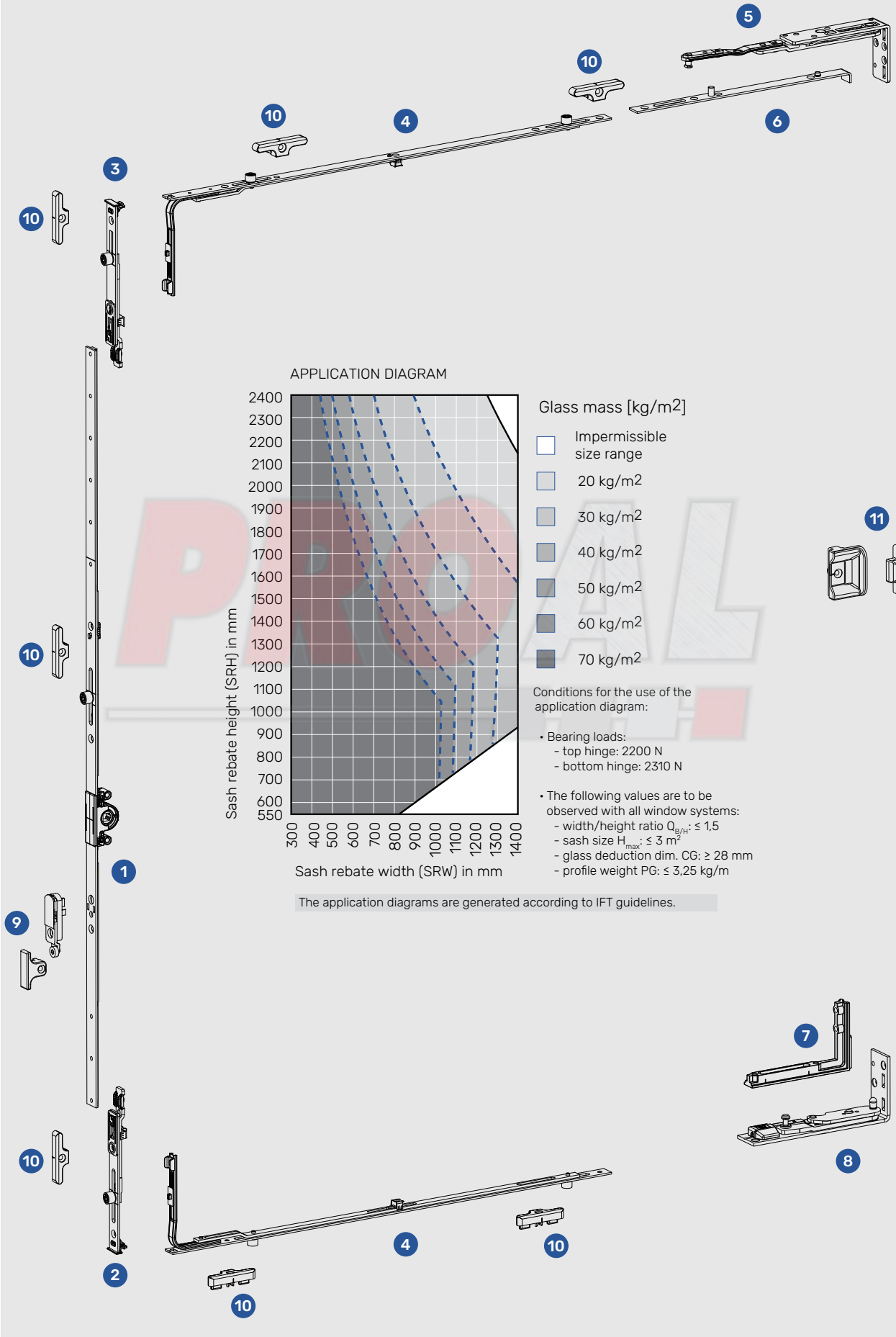
13 PACKERS

REBATE STAY ARM	PAGE 127
CORNER PIVOT	PAGE 127
TURN LIMITER	PAGE 127

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 13

* mishandling device serves as a sash lifter



APPLICATION DIAGRAM

Glass mass [kg/m2]

- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

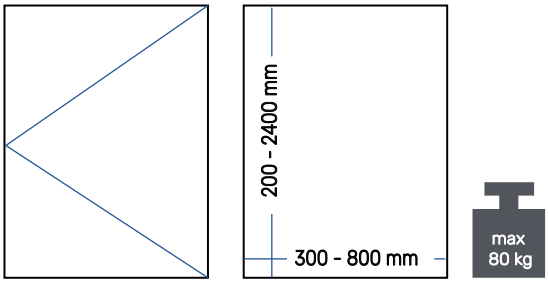
The application diagrams are generated according to IFT guidelines.

TURN - BASIC | CONCEALED HINGE SIDE

Centered / variable handle height

1 ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
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



2 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2] — PAGE 125

3 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE — 1141516

4 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

5 CORNER PIVOT

CORNER PIVOT CONCEALED [2] — PAGE 126

6 MISHANDLING DEVICE

SASH PART — 1093907

FRAME PART — PAGE 137

7 STRIKERS

STRIKER — PAGE 135

8 CONCEALED STRIKER

SASH PART — 1127509

FRAME PART — PAGE 141

9 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [2] — 1136166

10 PACKERS

REBATE STAY ARM — PAGE 127

CORNER PIVOT — PAGE 127

TURN LIMITER — PAGE 127

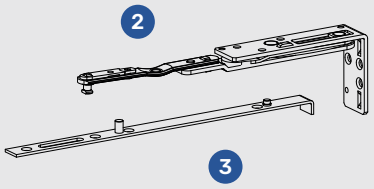
PROAL

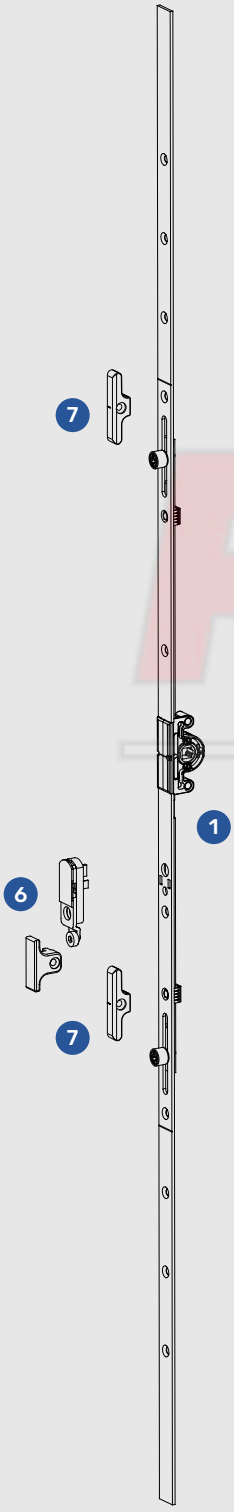
[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 10

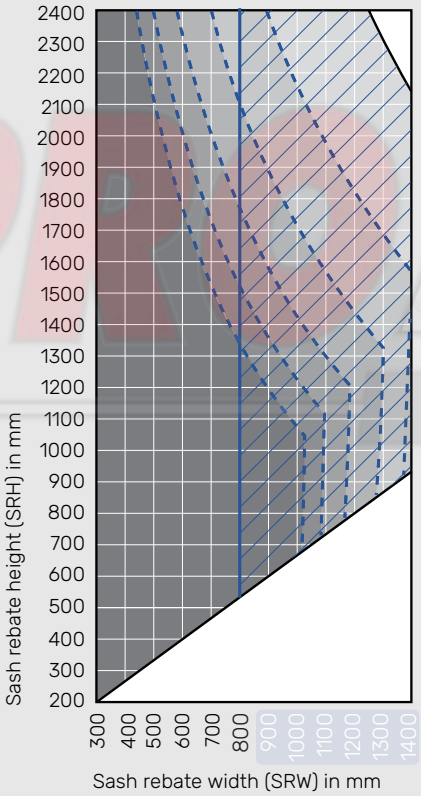
* mishandling device serves as a sash lifter

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





APPLICATION DIAGRAM



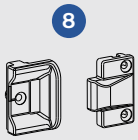
Glass mass [kg/m2]

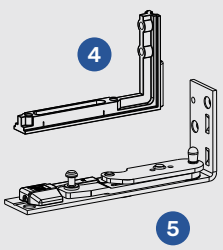
- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

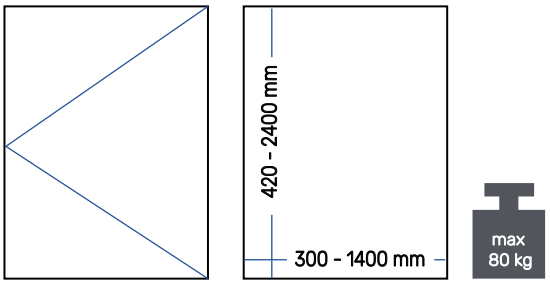
The application diagrams are generated according to IFT guidelines.





TURN - STANDARD | CONCEALED HINGE SIDE

Centered / variable handle height



1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
420–660 [1]	210–330	380		1083117
601–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–200	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 LOCK BOLT - BOTTOM

LOCK BOLT 140	1 R	1102394

3 LOCK BOLT - TOP

LOCK BOLT 140/90	1 R	1102395

4 CENTER LOCK

Sash rebate width	Lenght		Material
821–1200	500 / 550	2 R	1083058
1201–1400	800 / 850	2 R	1083059

5 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2]	PAGE 125

6 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE	1141516

7 CORNER HINGE

CORNER HINGE CONCEALED	1136163

8 CORNER PIVOT

CORNER PIVOT CONCEALED [2]	PAGE 126

9 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [2]	1136166

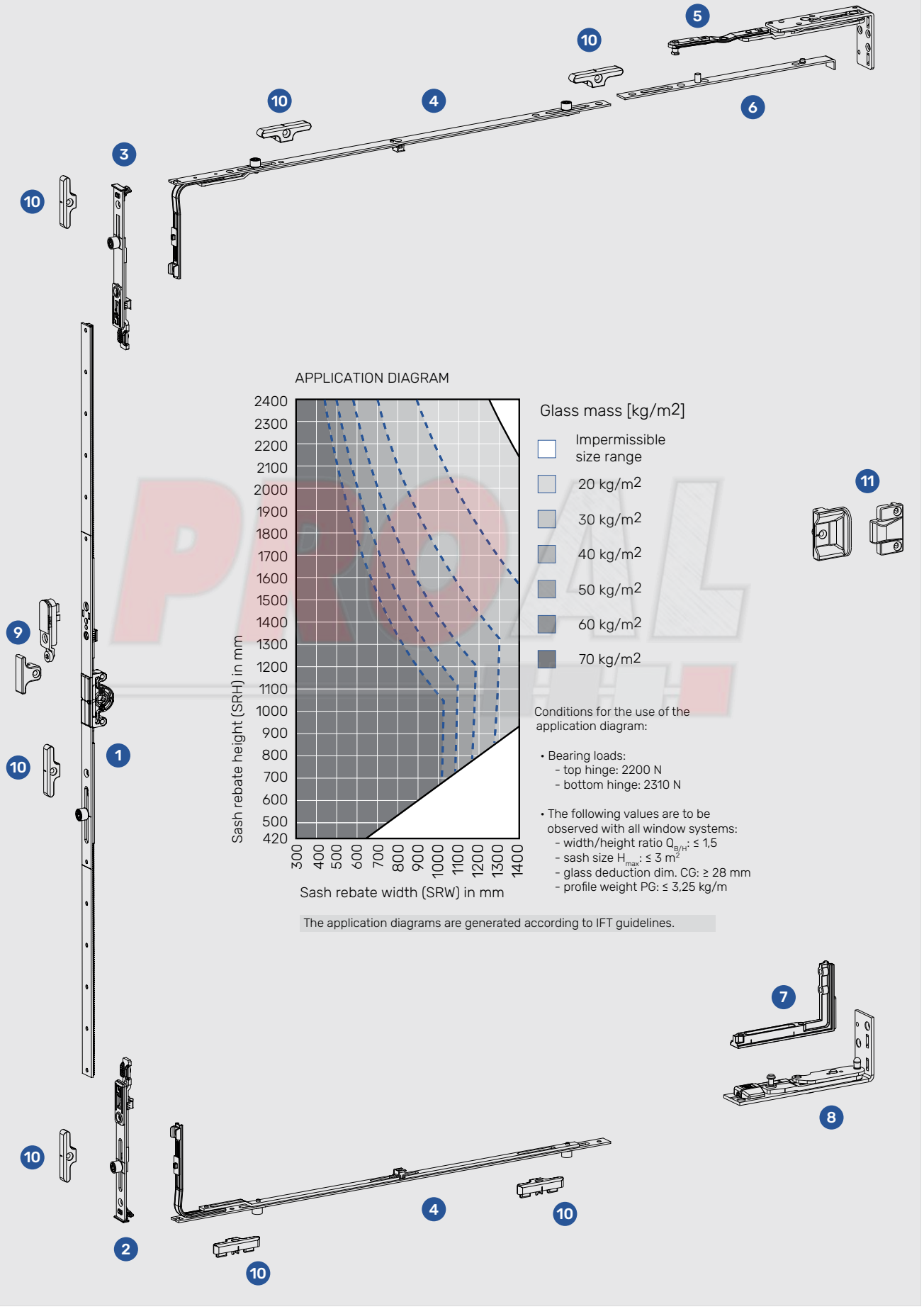
13 PACKERS

REBATE STAY ARM	PAGE 127
CORNER PIVOT	PAGE 127
TURN LIMITER	PAGE 127

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 13

* mishandling device serves as a sash lifter

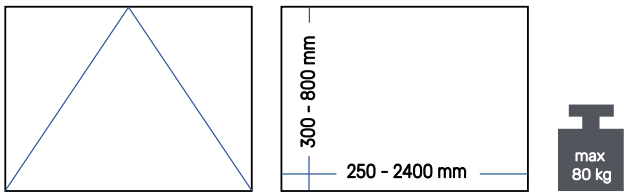

APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
420
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2200 N
- bottom hinge: 2310 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.
1
2
3
4
5
6
7
8
9
10
11

TILT - BASIC | FACE-FIT HINGE SIDE

Centered / variable handle height

1 ESPAGNOLETTE M BS 14,5 mm

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



2 REBATE CENTER HINGE

REBATE CENTER HINGE 12/20-13 - adjustable	1083268

3 STAY BEARING

STAY BEARING WITH PIN K3	1083250

4 TILT STAY

TILT STAY for GROOVE	1099154
TILT STAY for ESPAGNOLETTE	1099152

5 STRIKERS

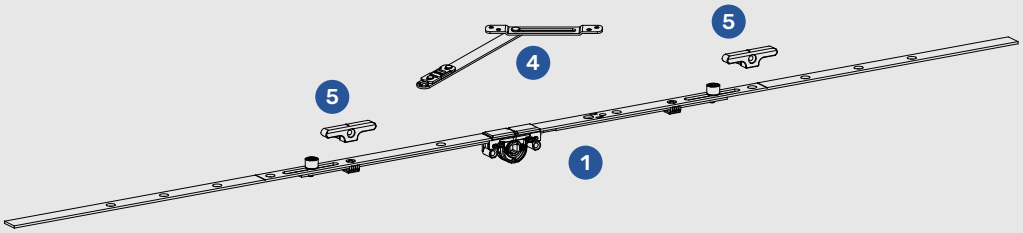
STRIKER	PAGE 135

6 COVER CAPS

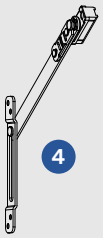
STAY BEARING	PAGE 130
REBATE CENTER HINGE / STAY ARM	PAGE 130

PROAL

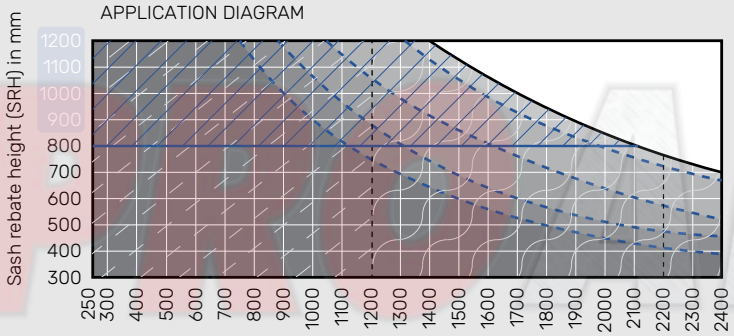
* for SRH > 800 mm, next scheme (STANDARD) is recommended







APPLICATION DIAGRAM



Glass mass [kg/m2]

- Impermissible size range
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

Conditions for the use of the application diagram:

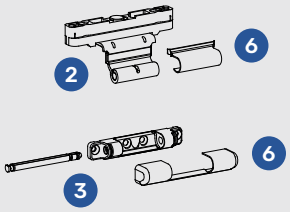
- Glass deduction dim. CG: ≥ 28 mm,
- profile weight PG: ≤ 3,25 kg/m.

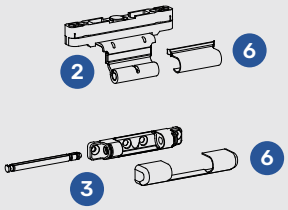
* The application diagrams are generated according to IFT guidelines.

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

ONE TILT STAY UP

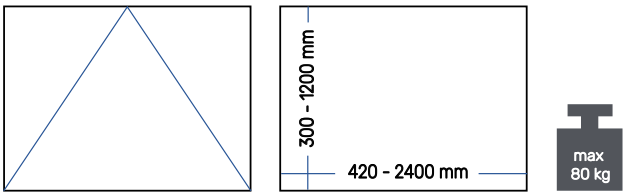
TWO TILT STAY UPS





TILT - STANDARD | FACE-FIT HINGE SIDE

Centered / variable handle height



1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate width	Handle width	Lenght		Material
420–660	210–330	380		1083117
601–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 LOCK BOLT

LOCK BOLT 140	1 R	1102394

3 LOCK BOLT

LOCK BOLT 140/90	1 R	1102395

4 CENTER LOCK

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

5 REBATE CENTER HINGE

REBATE CENTER HINGE 12/20-13 - adjustable	1083268

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 TILT STAY

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

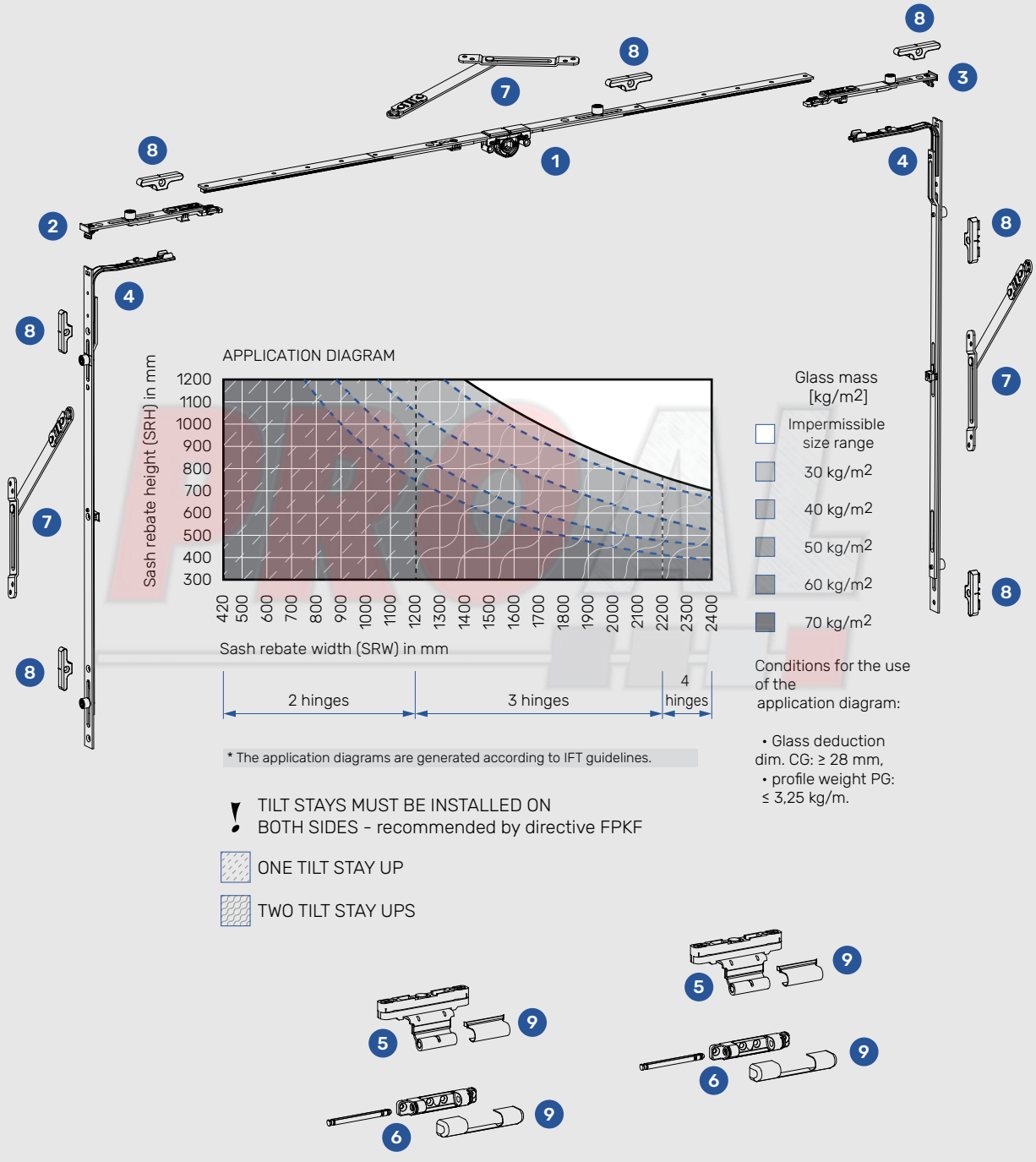
8 STRIKERS

STRIKER	PAGE 135

9 COVER CAPS

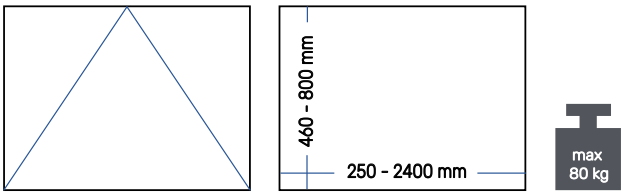
STAY BEARING	PAGE 130
REBATE CENTER HINGE / STAY ARM	PAGE 130

PROAL


APPLICATION DIAGRAM
Sash rebate height (SRH) in mm
1200
1100
1000
900
800
700
600
500
400
300
420 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
Sash rebate width (SRW) in mm
2 hinges
3 hinges
4 hinges
Glass mass [kg/m2]
Impermissible size range
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Conditions for the use of the application diagram:
• Glass deduction dim. CG: ≥ 28 mm,
• profile weight PG: ≤ 3,25 kg/m.
* The application diagrams are generated according to IFT guidelines.
TILT STAYS MUST BE INSTALLED ON BOTH SIDES - recommended by directive FPKF
ONE TILT STAY UP
TWO TILT STAY UPS

TILT - BASIC | CONCEALED HINGE SIDE

Centered / variable handle height



1 ESPAGNOLETTE M BS 14,5 mm

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

2 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [1] — L — PAGE 125

3 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [1] — R — PAGE 125

4 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE — 1141516

5 TILT STAY

TILT STAY for GROOVE — 1099154
TILT STAY for ESPAGNOLETTE — 1099152

6 STRIKERS

STRIKER — PAGE 135

7 CONCEALED STRIKER

SASH PART — 1127509
FRAME PART — PAGE 141

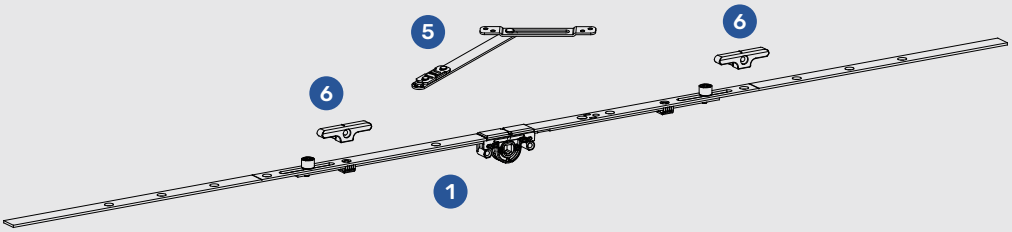
8 PACKERS

REBATE STAY ARM — PAGE 127

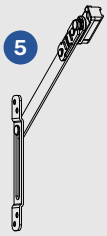
PRO AL

[1] WITHOUT PACKERS - SEE 8

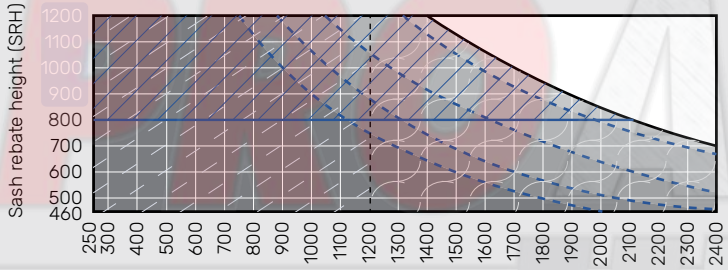
* for SRH > 800 mm, next scheme (STANDARD) is recommended







APPLICATION DIAGRAM



Glass mass [kg/m2]

- Impermissible size range
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

* The application diagrams are generated according to IFT guidelines.

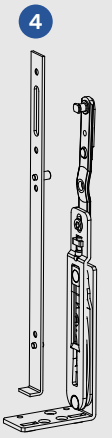
! TILT STAYS MUST BE INSTALLED ON BOTH SIDES - recommended by directive FPKF

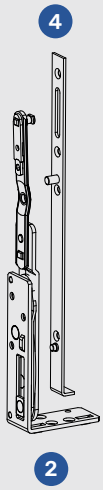
ONE TILT STAY UP

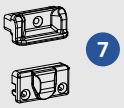
TWO TILT STAY UPS

Conditions for the use of the application diagram:

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

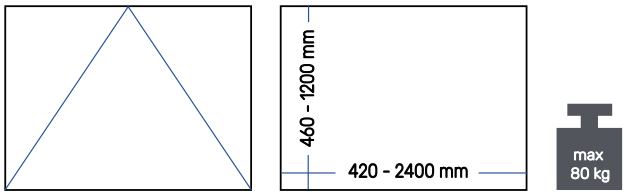






TILT - STANDARD | CONCEALED HINGE SIDE

Centered / variable handle height



1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate width	Handle width	Lenght		Material
420–660	210–330	380		1083117
601–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–2000	801–1000	1720	2 R	1098966
2001–2400	1001–1200	2120	2 R	1098967

2 LOCK BOLT

LOCK BOLT 140	1 R	1102394

3 LOCK BOLT

LOCK BOLT 140/90	1 R	1102395

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [1]	L	PAGE 125

6 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [1]	R	PAGE 125

7 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE	1141516

8 TILT STAY

TILT STAY for GROOVE	1099154
TILT STAY for ESPAGNOLETTE	1099152

9 STRIKERS

STRIKER	PAGE 135

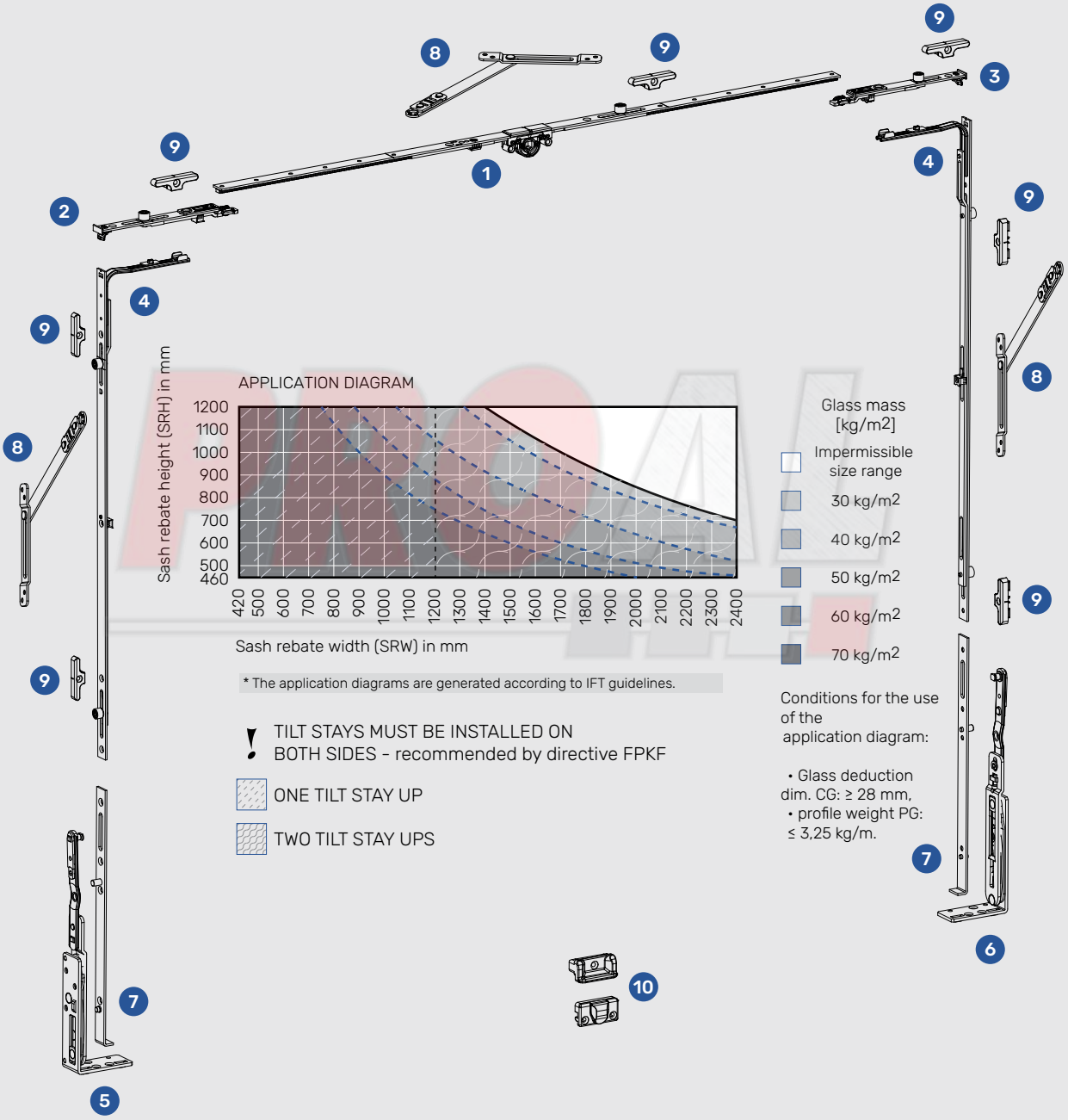
10 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

11 PACKERS

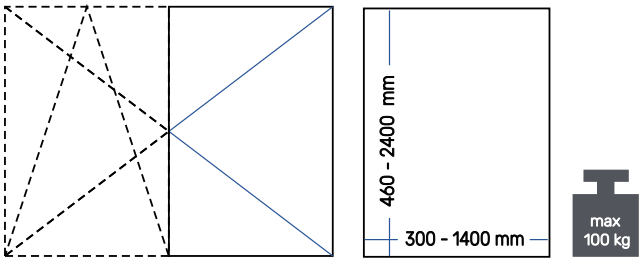
REBATE STAY ARM	PAGE 127

[1] WITHOUT PACKERS - SEE 8


APPLICATION DIAGRAM
Sash rebate height (SRH) in mm
1200
1100
1000
900
800
700
600
500
460
420 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400
Sash rebate width (SRW) in mm
Glass mass [kg/m2]
Impermissible size range
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
* The application diagrams are generated according to IFT guidelines.
TILT STAYS MUST BE INSTALLED ON BOTH SIDES - recommended by directive FPKF
ONE TILT STAY UP
TWO TILT STAY UPS
Conditions for the use of the application diagram:
• Glass deduction dim. CG: ≥ 28 mm,
• profile weight PG: ≤ 3,25 kg/m.

TURN - SECOND SASH | FACE-FIT HINGE SIDE

Fixed handle height | First sash T&Ti



1 FR. WIN. KV ESPAGNOLETTE

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

2 CORNER DRIVE - BOTTOM

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

3 CORNER DRIVE - TOP

CORNER DRIVE	1 R	1103158

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

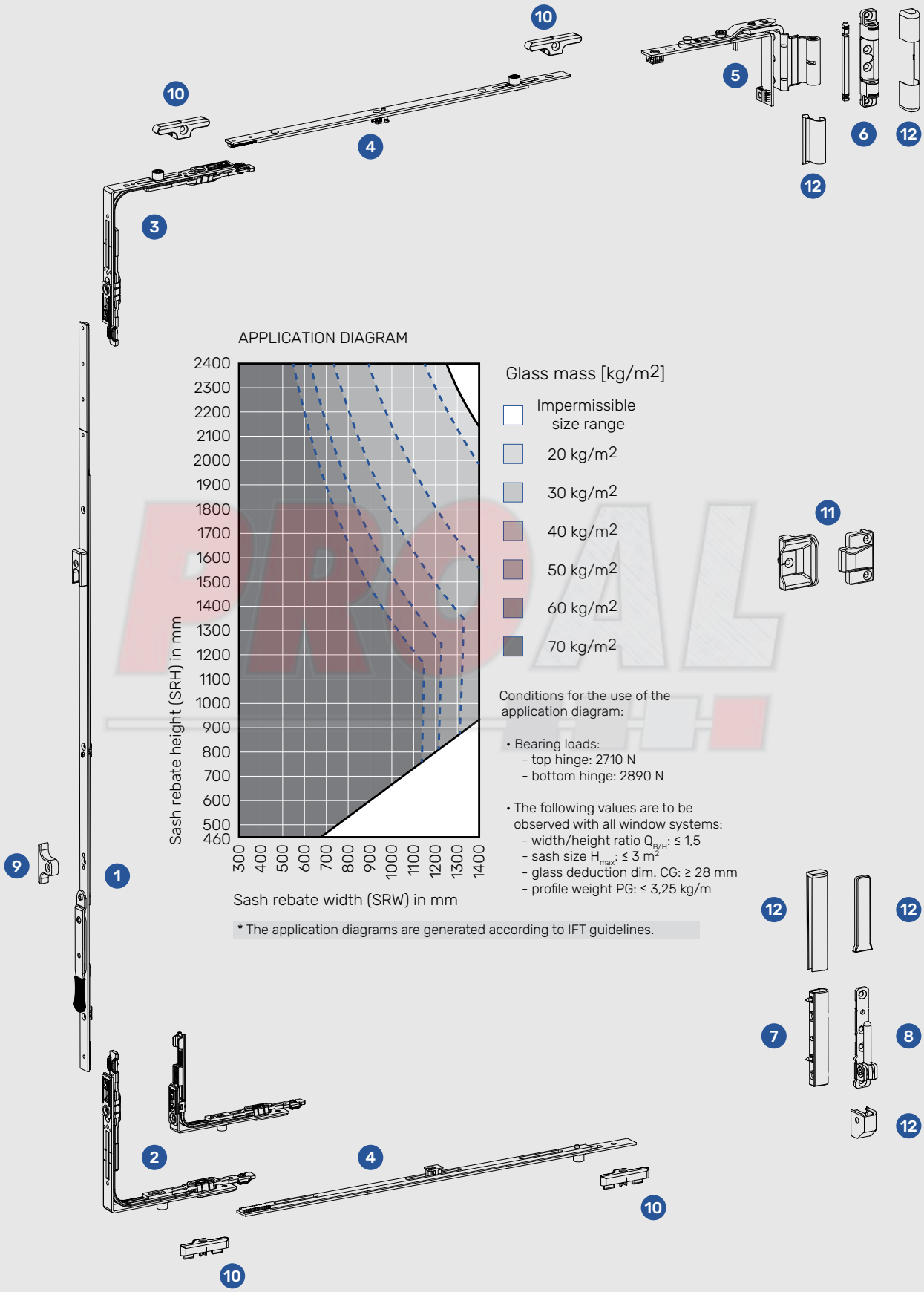
12 COVER CAPS

STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1)] MUST USE SHORT CORNER DRIVE **1103162** ON BOTTOM

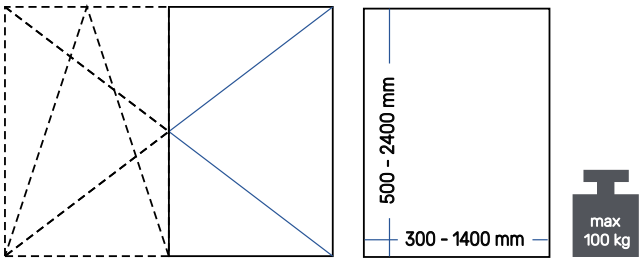
[2)] MISHANDLING DEVICE NOT AVAILABLE

* position the upper corner drives' R cams into vertical position


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
460
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
* The application diagrams are generated according to IFT guidelines.

TURN - SECOND SASH | FACE-FIT HINGE SIDE

Centered / variable handle height | First sash T&Ti



1 FR. WIN. ESPAGNOLETTE M

Sash rebate height	Handle height	Lenght		Material
500–680 [1)]	250–380	400		1098116
600–1000	387–586	720	1 R	1098120
900–1400	350–550	1120	1 R	1098122
1401–1800	350–550	1520	1 R	1098123
1601–2000	350–550	1720	2 R	1098124
2001–2400	350–550	2120	2 R	1098125

2 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 R	1103158

3 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	1 R	1103158

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

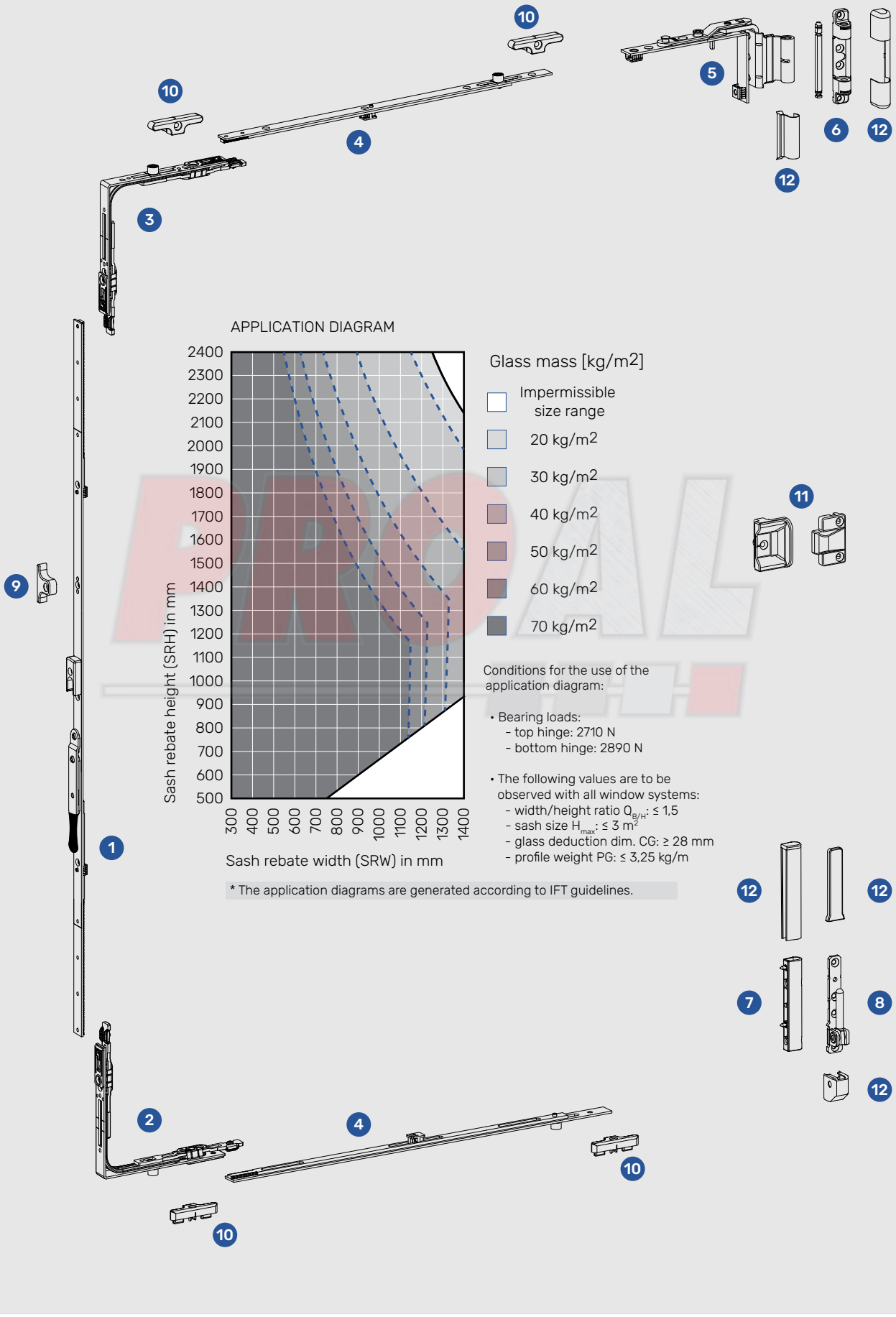
SASH PART	1127509
FRAME PART	PAGE 141

12 COVER CAPS

STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

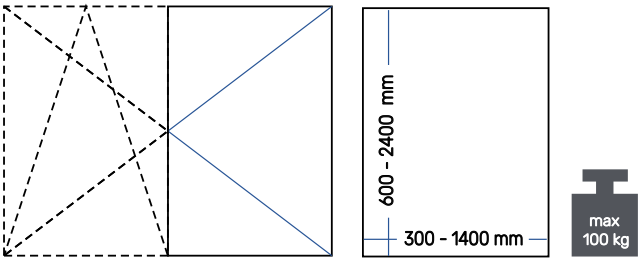
[1)] MISHANDLING DEVICE NOT AVAILABLE

* position the upper corner drives' R cams into vertical position


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
* The application diagrams are generated according to IFT guidelines.
1
2
3
4
5
6
7
8
9
10
11
12

TURN - SECOND SASH | FACE-FIT HINGE SIDE

Fixed handle height | First sash T&T



1 FR. WIN. KV ESPAGNOLETTE

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

2 FR. WIN. T&T LOCK BOLT

T&T LOCK BOLT 11 mm		1102621

3 FR. WIN. CONNECTOR with STRIKER

CONNECTOR WITH STRIKER		1110929

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

10 STRIKERS

STRIKER	PAGE 135
SECOND SASH STRIKER for shootbolt	PAGE 138

11 CONCEALED STRIKER

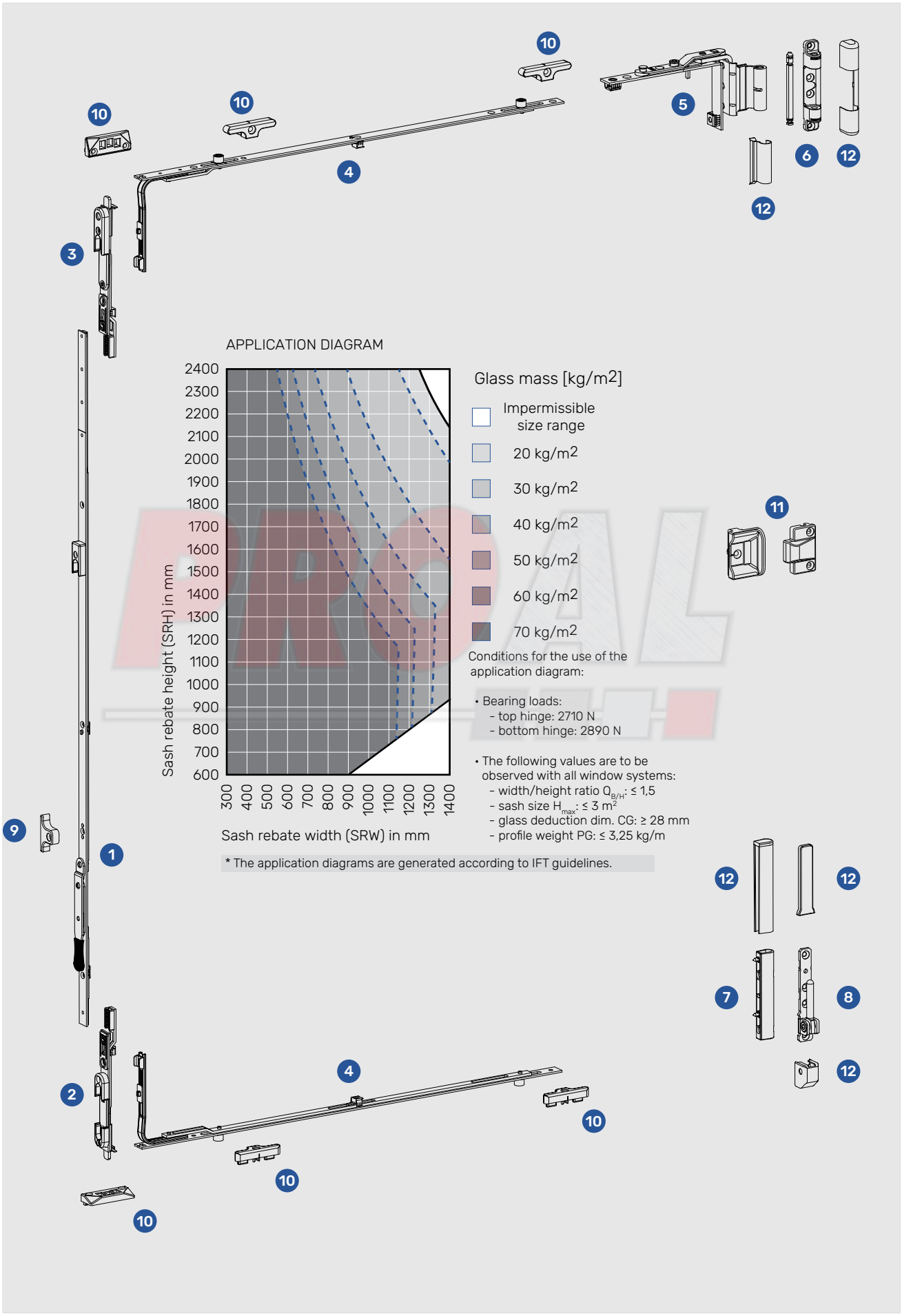
SASH PART	1127509
FRAME PART	PAGE 141

12 COVER CAPS

STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

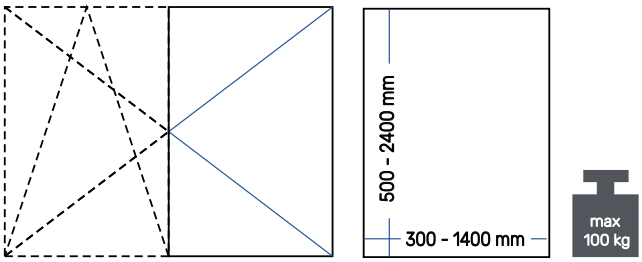
[1] MISHANDLING DEVICE NOT AVAILABLE

PROAL


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
* The application diagrams are generated according to IFT guidelines.

TURN - SECOND SASH | FACE-FIT HINGE SIDE

Centered / variable handle height | First sash T&T



1 FR. WIN. ESPAGNOLETTE M

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

2 FR. WIN. T&T LOCK BOLT

T&T LOCK BOLT 11 mm		1102621

3 FR. WIN. CONNECTOR with STRIKER

CONNECTOR WITH STRIKER		1110929

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

10 STRIKERS

STRIKER	PAGE 135
SECOND SASH STRIKER for shootbolt	PAGE 138

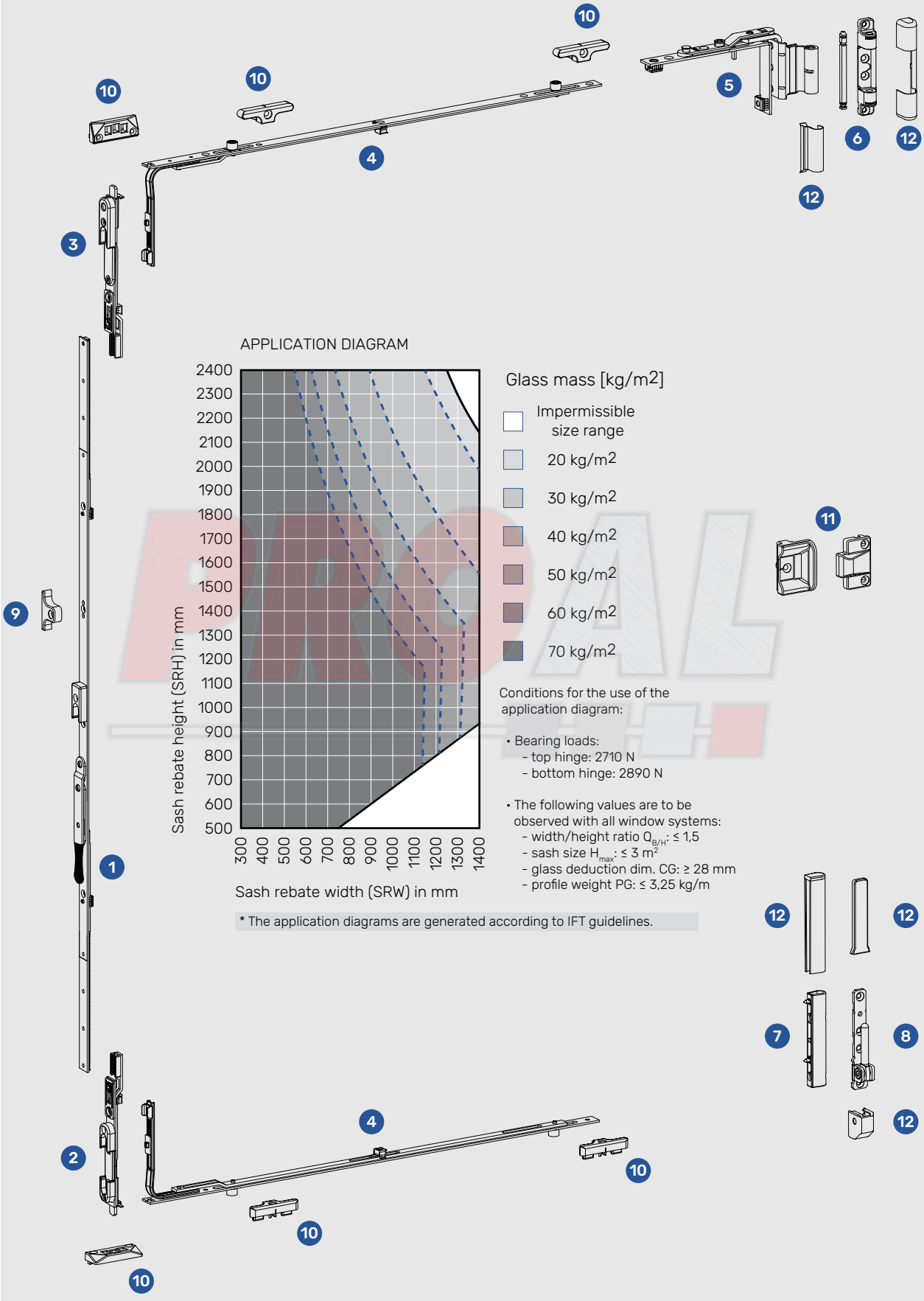
11 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

12 COVER CAPS

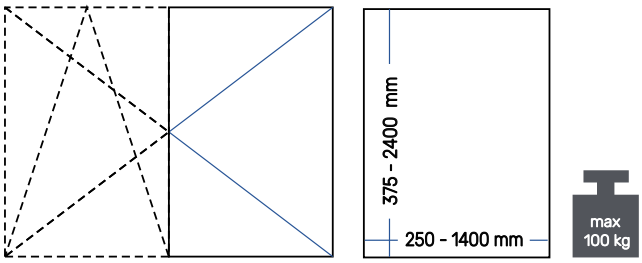
STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] MISHANDLING DEVICE NOT AVAILABLE


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2710 N
- bottom hinge: 2890 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
* The application diagrams are generated according to IFT guidelines.

TURN - SECOND SASH | FACE-FIT HINGE SIDE

Shootbolts



1 SHOOTBOLT with striker 11 mm- TOP

SHOOTBOLT WITH STRIKER	1083253

2 SHOOTBOLT without striker 11 mm - TOP

SHOOTBOLT WITHOUT STRIKER 140	1083254

3 SHOOTBOLT with T&T striker 11 mm - BOTTOM

SHOOTBOLT WITH T&T STRIKER	1083252

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM 12/20-13	L	1083263
REBATE STAY ARM 12/20-13	R	1083262

6 STAY BEARING

STAY BEARING WITH PIN K3	1083250

7 CORNER HINGE

CORNER HINGE K3	1083241

8 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

9 MISHANDLING DEVICE

MISHANDLING DEVICE - OHG	1083293

10 STRIKERS

STRIKER	PAGE 135
STRIKER - OHG	1083207
SECOND SASH STRIKER for shootbolt	PAGE 138

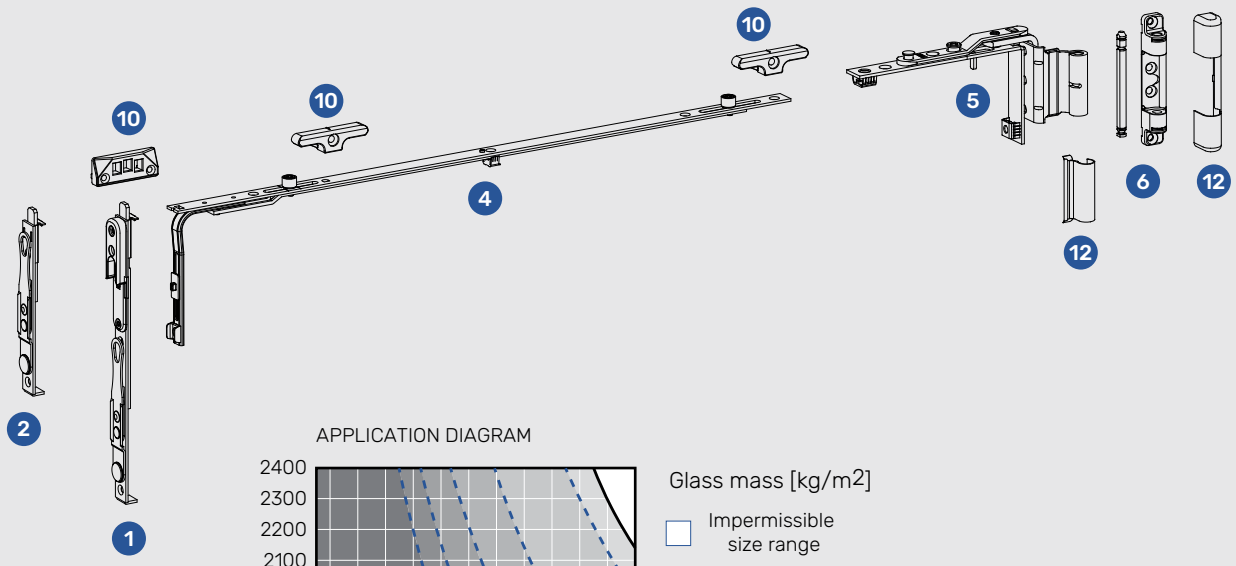
11 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

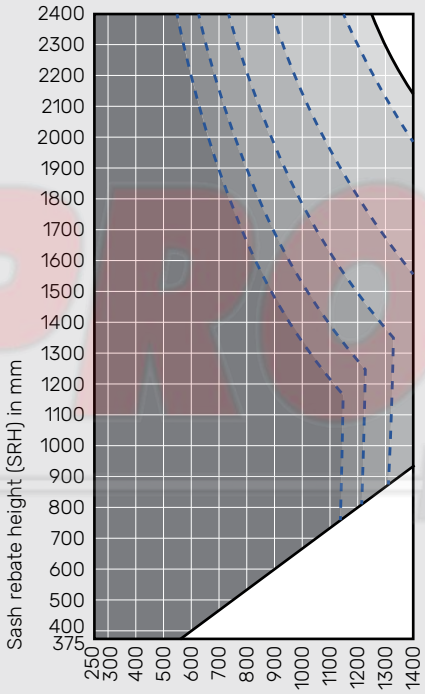
12 COVER CAPS

STAY BEARING	PAGE 130
REBATE STAY ARM / STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

PROAL



APPLICATION DIAGRAM



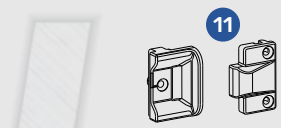
Glass mass [kg/m2]

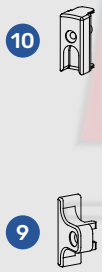
- Impermissible size range
- 20 kg/m2
- 30 kg/m2
- 40 kg/m2
- 50 kg/m2
- 60 kg/m2
- 70 kg/m2

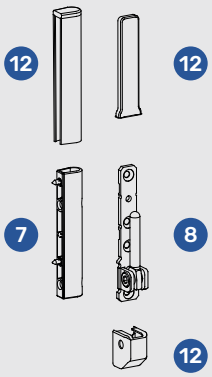
Conditions for the use of the application diagram:

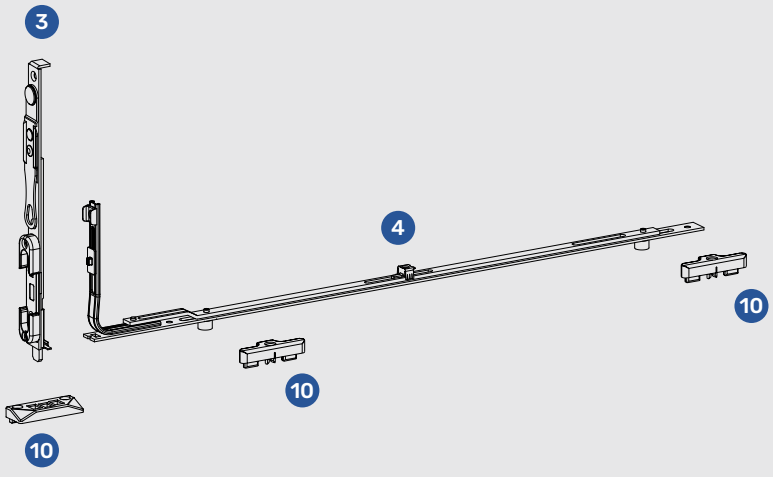
- Bearing loads:
  - top hinge: 2710 N
  - bottom hinge: 2890 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

* The application diagrams are generated according to IFT guidelines.









TURN - SECOND SASH - RC 1 SECURITY | FACE-FIT HINGE SIDE

Fixed handle height | First sash T&Ti

1 FR. WIN. KV ESPAGNOLETTE

Sash rebate height	Handle height	Lenght		Material
460–600 [1) 2)]	170	410		1118420
601–800 [2)]	263	520		1118421
801–1000	413	720	1 R	1118423
1001–1200	513	920	1 R	1118424
1201–1400	563	1120	1 R	1118425
1401–1600	563	1320	1 R	1118426
1601–1800	563	1520	1 R	1118427
1801–2000	1000	1720	2 R	1118428
2001–2200	1000	1920	2 R	1118429
2201–2400	1000	2120	2 R	1118430

2 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	1 RS	1100983

3 CORNER DRIVE - BOTTOM

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

4 SASH STAY GUIDE - turn only

Sash rebate width	Type / length		Material Nr.
410–610	250 / 470		1105855
611–810	350 / 670		1105856
811–1010	500 / 870	1 R	1105857
1011–1210	350 / 670 + 400	1 R	1105856+1102897
1211–1400	500 / 870 + 400	1+1 R	1105857+1102897

5 STAY ARM

ONLY SYSTEM 12/20-13

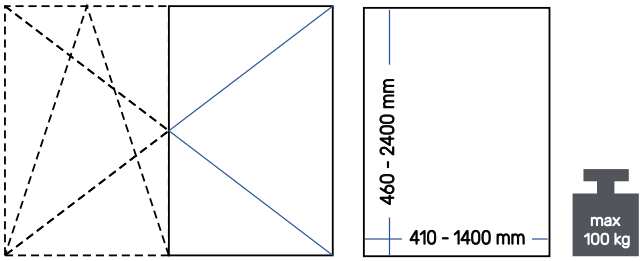
Sash rebate width	Type / length	Pos.	Material
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

6 SECURITY CORNER LOCK

SECURITY CORNER LOCK 180 mm	1 RS	1100987

7 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801–1200	400 1 R	1083061
1201–1600	600 1 R	1083062
1601–2000	600 EX 1 R + 600 1 R	1102900+1083062
2001–2200	2 x 600 EX 1 R + 400 1 R	2x1102900+1083061
2201–2400	2 x 600 EX 1 R + 600 1 R	2x1102900+1083062



8 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
340–410	200 1 RS	1101005
541–740	400 1 RS	1101006
741–940	600 1 RS	1101012
941–1140	600 EX 1 R + 200 1 RS	1102900+1101005
1141–1340	600 EX 1 R + 400 1 RS	1102900+1101006
1341–1400	600 EX 1 R + 600 1 RS	1102900+1101012

9 STAY BEARING

STAY BEARING WITH PIN K6	1105598

10 CORNER HINGE

CORNER HINGE K6	1083242

11 CORNER PIVOT REST

CORNER PIVOT REST K6	1105596

12 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

13 STRIKERS

SECURITY STRIKER	PAGE 136
STRIKER	PAGE 135

14 GROOVE SPACER

GROOVE SPACER 12 mm	1127521

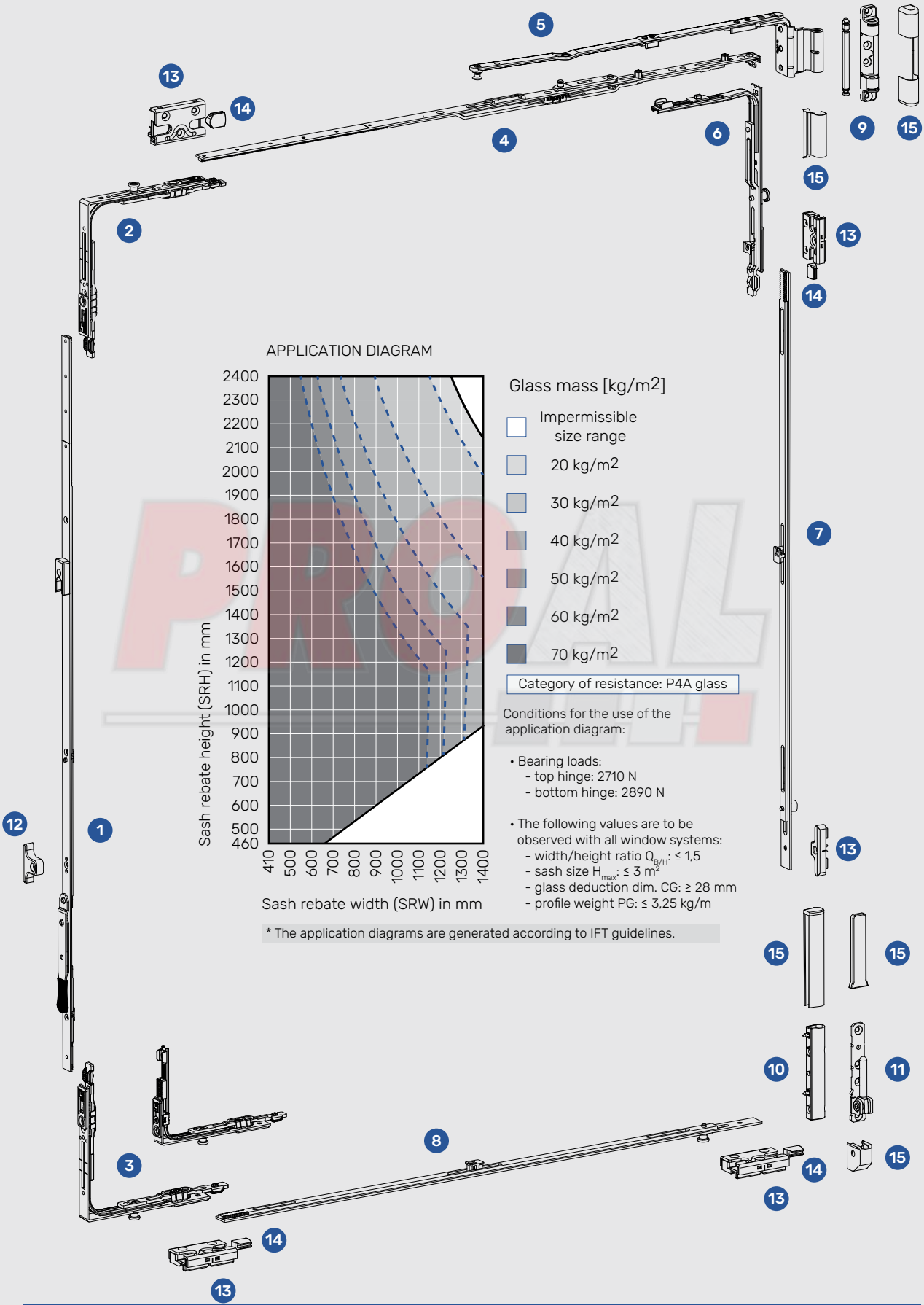
15 COVER CAPS

STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

1) MUST USE SHORT CORNER DRIVE **1100986** ON BOTTOM

2) MISHANDLING DEVICE NOT AVAILABLE

* 4 security locking points
* groove spacers are necessary
* position the RS cam on the upper corner drive into vertical position



RC1 security is a system test meaning, that ARX as a hardware producer can only give recommendations for hardware assembled into finished product (window). ARX can't guarantee that the test will be positive solely on the base of hardware recommendations.

TURN - SECOND SASH - RC 1 SECURITY | FACE-FIT HINGE SIDE

Centered / variable handle height | First sash T&Ti

1 FR. WIN. ESPAGNOLETTE M

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

2 CORNER DRIVE - TOP

STANDARD CORNER DRIVE	1 RS	1100983

3 CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 RS	1100983

4 SASH STAY GUIDE - turn only

Sash rebate width	Type / length		Material Nr.
410–610	250 / 470		1105855
611–810	350 / 670		1105856
811–1010	500 / 870	1 R	1105857
1011–1210	350 / 670 + 400	1 R	1105856+1102897
1211–1400	500 / 870 + 400	1+1 R	1105857+1102897

5 STAY ARM

ONLY SYSTEM 12/20-13

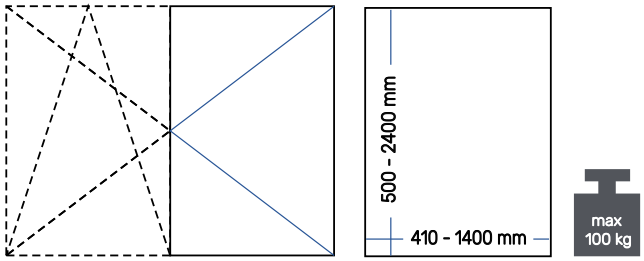
Sash rebate width	Type / length	Pos.	Material
411–610	250	L	1083016
		R	1083017
611–810	350	L	1083018
		R	1083019
811–1400	500	L	1083020
		R	1083021

6 SECURITY CORNER LOCK

SECURITY CORNER LOCK 180 mm	1 RS	1100987

7 CENTER LOCK - VERTICAL

Sash rebate height	Length	Material
801–1200	400 1 R	1083061
1201–1600	600 1 R	1083062
1601–2000	600 EX 1 R + 600 1 R	1102900+1083062
2001–2200	2 x 600 EX 1 R + 400 1 R	2x1102900+1083061
2201–2400	2 x 600 EX 1 R + 600 1 R	2x1102900+1083062



8 CENTER LOCK - HORIZONTAL

Sash rebate width	Length	Material
340–410	200 1 RS	1101005
541–740	400 1 RS	1101006
741–940	600 1 RS	1101012
941–1140	600 EX 1 R + 200 1 RS	1102900+1101005
1141–1340	600 EX 1 R + 400 1 RS	1102900+1101006
1341–1400	600 EX 1 R + 600 1 RS	1102900+1101012

9 STAY BEARING

STAY BEARING WITH PIN K6	1105598

10 CORNER HINGE

CORNER HINGE K6	1083242

11 CORNER PIVOT REST

CORNER PIVOT REST K6	1105596

12 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

13 STRIKERS

SECURITY STRIKER PAGE 136
STRIKER PAGE 135

14 GROOVE SPACER

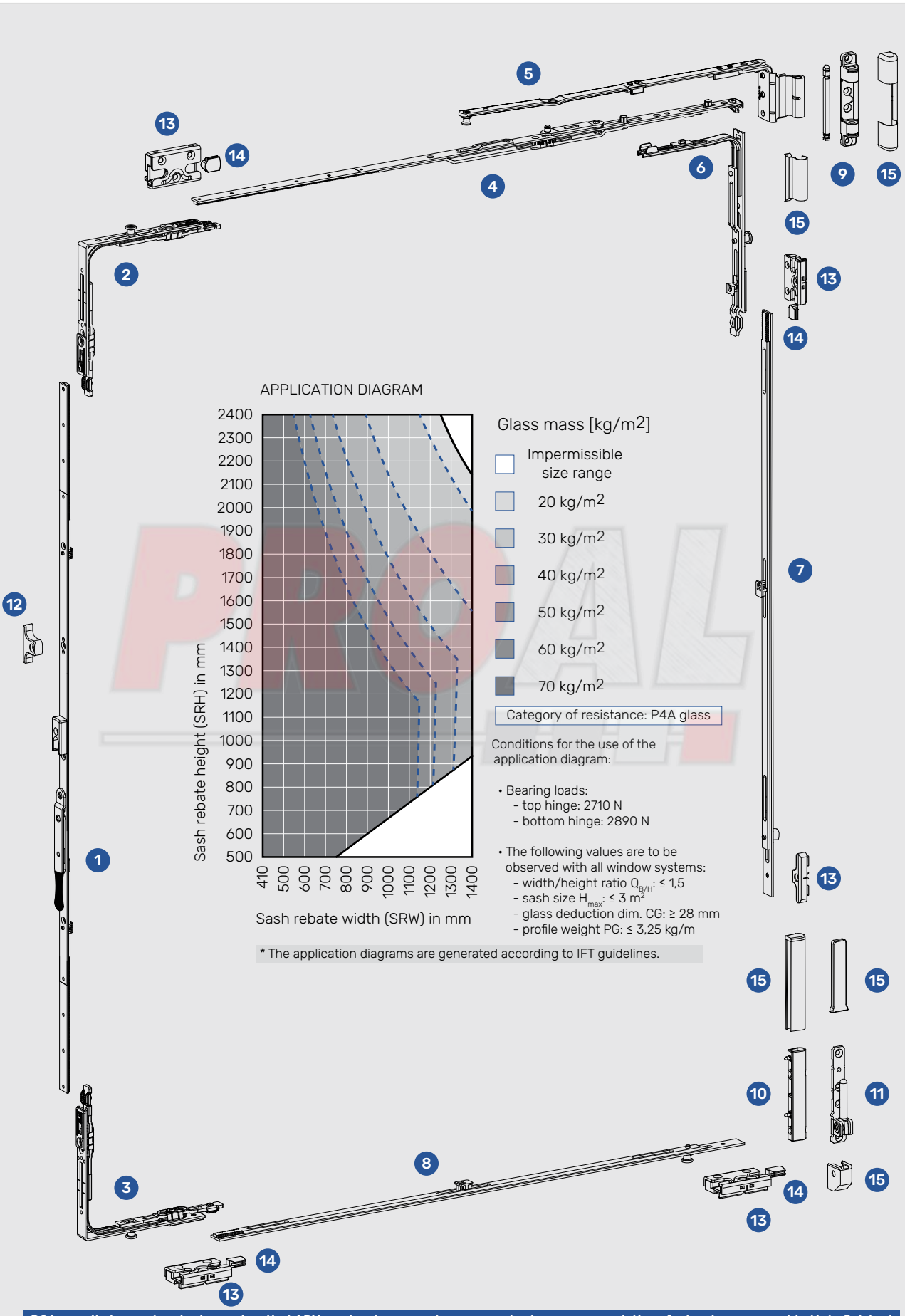
GROOVE SPACER 12 mm	1127521

15 COVER CAPS

STAY BEARING PAGE 130
STAY ARM PAGE 130
CORNER HINGE PAGE 130
CORNER PIVOT REST PAGE 130
CORNER PIVOT REST - FLAT PAGE 130

* 4 security locking points
* groove spacers are necessary
* position the RS cam on the upper corner drive into vertical position

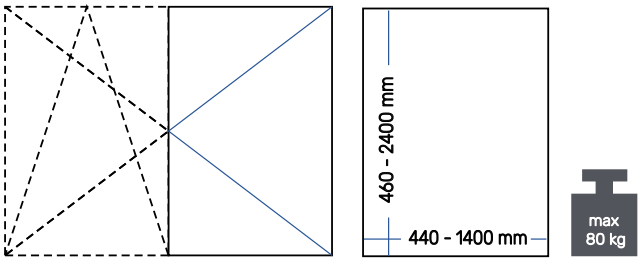
[1] MISHANDLING DEVICE NOT AVAILABLE



RC1 security is a system test meaning, that ARX as a hardware producer can only give recommendations for hardware assembled into finished product (window). ARX can't guarantee that the test will be positive solely on the base of hardware recommendations.

TURN - SECOND SASH | CONCEALED HINGE SIDE

Fixed handle height | First sash T&Ti



1 FR. WIN. KV ESPAGNOLETTE

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

2 CORNER DRIVE - BOTTOM

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

3 CORNER DRIVE - TOP

CORNER DRIVE	1 R	1103158

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [3)]	PAGE 125

6 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE	1141516

7 CORNER HINGE

CORNER HINGE CONCEALED	1136163

8 CORNER PIVOT

CORNER PIVOT CONCEALED [3)]	PAGE 126

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

10 STRIKERS

STRIKER	PAGE 135

11 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [3)]	1136166

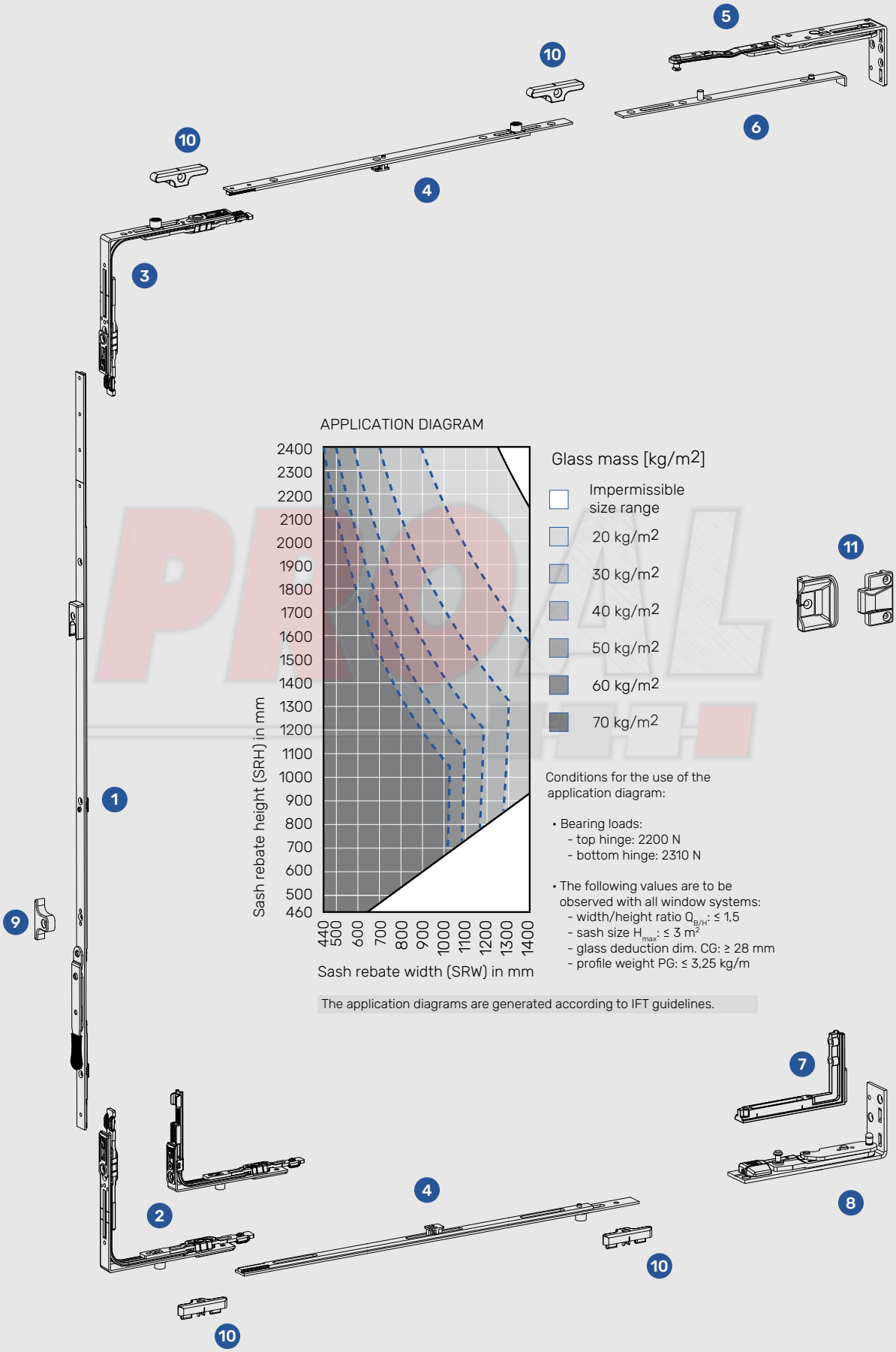
13 PACKERS

REBATE STAY ARM	PAGE 127
CORNER PIVOT	PAGE 127
TURN LIMITER	PAGE 127

[1)] MUST USE SHORT CORNER DRIVE **1100986** ON BOTTOM

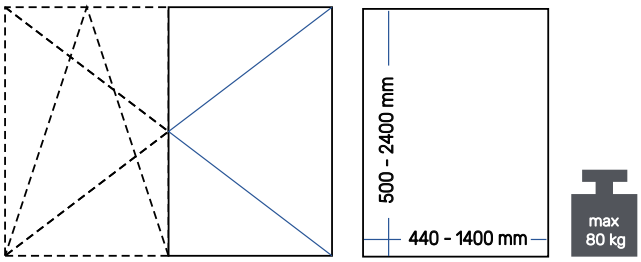
[2)] MISHANDLING DEVICE NOT AVAILABLE

[3)] WITHOUT PACKERS - SEE 8


5
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3
APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
460
440
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
11
1
9
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2200 N
- bottom hinge: 2310 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.
7
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TURN - SECOND SASH | CONCEALED HINGE SIDE

Centered / variable handle height | First sash T&Ti



1 FR. WIN. ESPAGNOLETTE M

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

2 CORNER DRIVE

STANDARD CORNER DRIVE	1 R	1103158

3 CENTER LOCK

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

4 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2]	PAGE 125

5 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE	1141516

6 CORNER HINGE

CORNER HINGE CONCEALED	1136163

7 CORNER PIVOT

CORNER PIVOT CONCEALED [2]	PAGE 126

8 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette	1083295

9 STRIKERS

STRIKER	PAGE 135

10 CONCEALED STRIKER

SASH PART	1127509
FRAME PART	PAGE 141

11 SASH TURN LIMITER

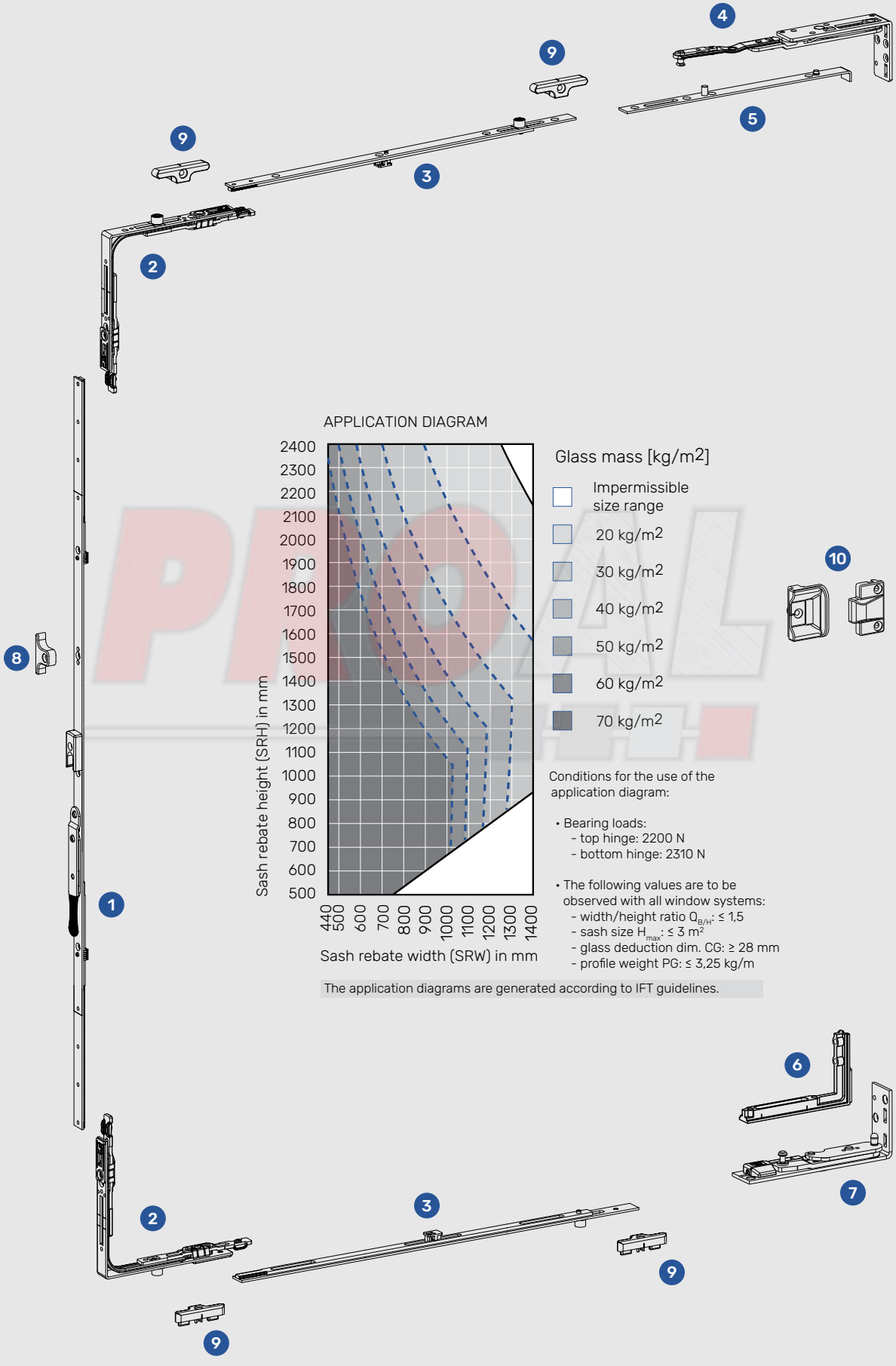
SASH TURN LIMITER CONCEALED [2]	1136166

12 PACKERS

REBATE STAY ARM	PAGE 127
CORNER PIVOT	PAGE 127
TURN LIMITER	PAGE 127

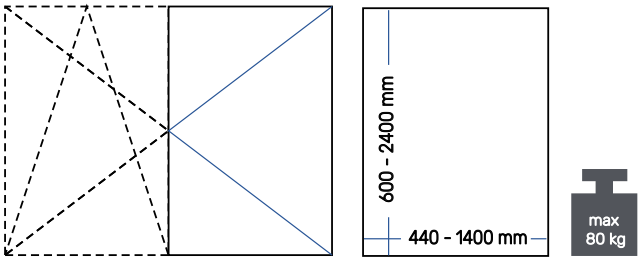
[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 8


APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
440
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2200 N
- bottom hinge: 2310 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.
1
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TURN - SECOND SASH | CONCEALED HINGE SIDE

Fixed handle height | First sash T&T



1 FR. WIN. KV ESPAGNOLETTE

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

2 FR. WIN. T&T LOCK BOLT

T&T LOCK BOLT 11 mm — 1102621

3 FR. WIN. CONNECTOR with STRIKER

CONNECTOR WITH STRIKER — 1110929

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2] — PAGE 125

6 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE — 1141516

7 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

8 CORNER PIVOT

CORNER PIVOT CONCEALED [2] — PAGE 126

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette — 1083295

10 STRIKERS

STRIKER — PAGE 135
SECOND SASH STRIKER for shootbolt — PAGE 138

11 CONCEALED STRIKER

SASH PART — 1127509
FRAME PART — PAGE 141

12 SASH TURN LIMITER

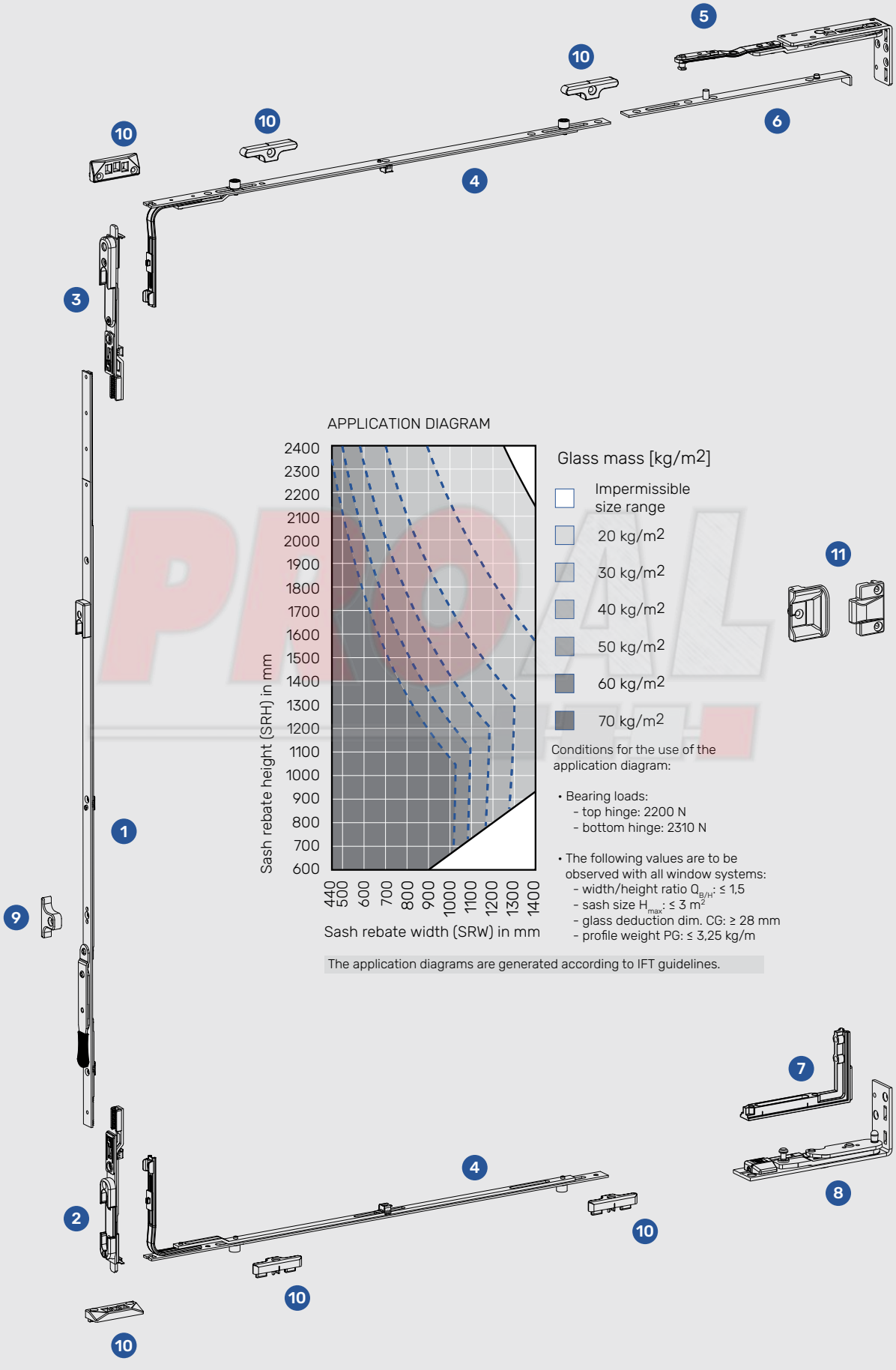
SASH TURN LIMITER CONCEALED [2] — 1136166

13 PACKERS

REBATE STAY ARM — PAGE 127
CORNER PIVOT — PAGE 127
TURN LIMITER — PAGE 127

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 8



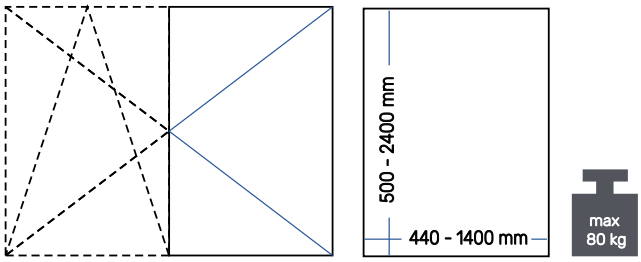
Conditions for the use of the application diagram:

- Bearing loads:
  - top hinge: 2200 N
  - bottom hinge: 2310 N
- The following values are to be observed with all window systems:
  - width/height ratio $Q_{B/H}$: ≤ 1,5
  - sash size H_{max}: ≤ 3 m²
  - glass deduction dim. CG: ≥ 28 mm
  - profile weight PG: ≤ 3,25 kg/m

The application diagrams are generated according to IFT guidelines.

TURN - SECOND SASH | CONCEALED HINGE SIDE

Centered / variable handle height | First sash T&T



1 FR. WIN. ESPAGNOLETTE M

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

2 FR. WIN. T&T LOCK BOLT

T&T LOCK BOLT 11 mm — 1102621

3 FR. WIN. CONNECTOR with STRIKER

CONNECTOR WITH STRIKER — 1110929

4 CENTER LOCK

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

5 REBATE STAY ARM

REBATE STAY ARM CONCEALED 12/20-13 [2] — PAGE 125

6 REBATE STAY ARM GUIDE

REBATE STAY ARM GUIDE — 1141516

7 CORNER HINGE

CORNER HINGE CONCEALED — 1136163

8 CORNER PIVOT

CORNER PIVOT CONCEALED [2] — PAGE 126

9 MISHANDLING DEVICE

MISHANDLING DEVICE for espagnolette — 1083295

10 STRIKERS

STRIKER — PAGE 135

SECOND SASH STRIKER for shootbolt — PAGE 138

11 CONCEALED STRIKER

SASH PART — 1127509

FRAME PART — PAGE 141

12 SASH TURN LIMITER

SASH TURN LIMITER CONCEALED [2] — 1136166

13 PACKERS

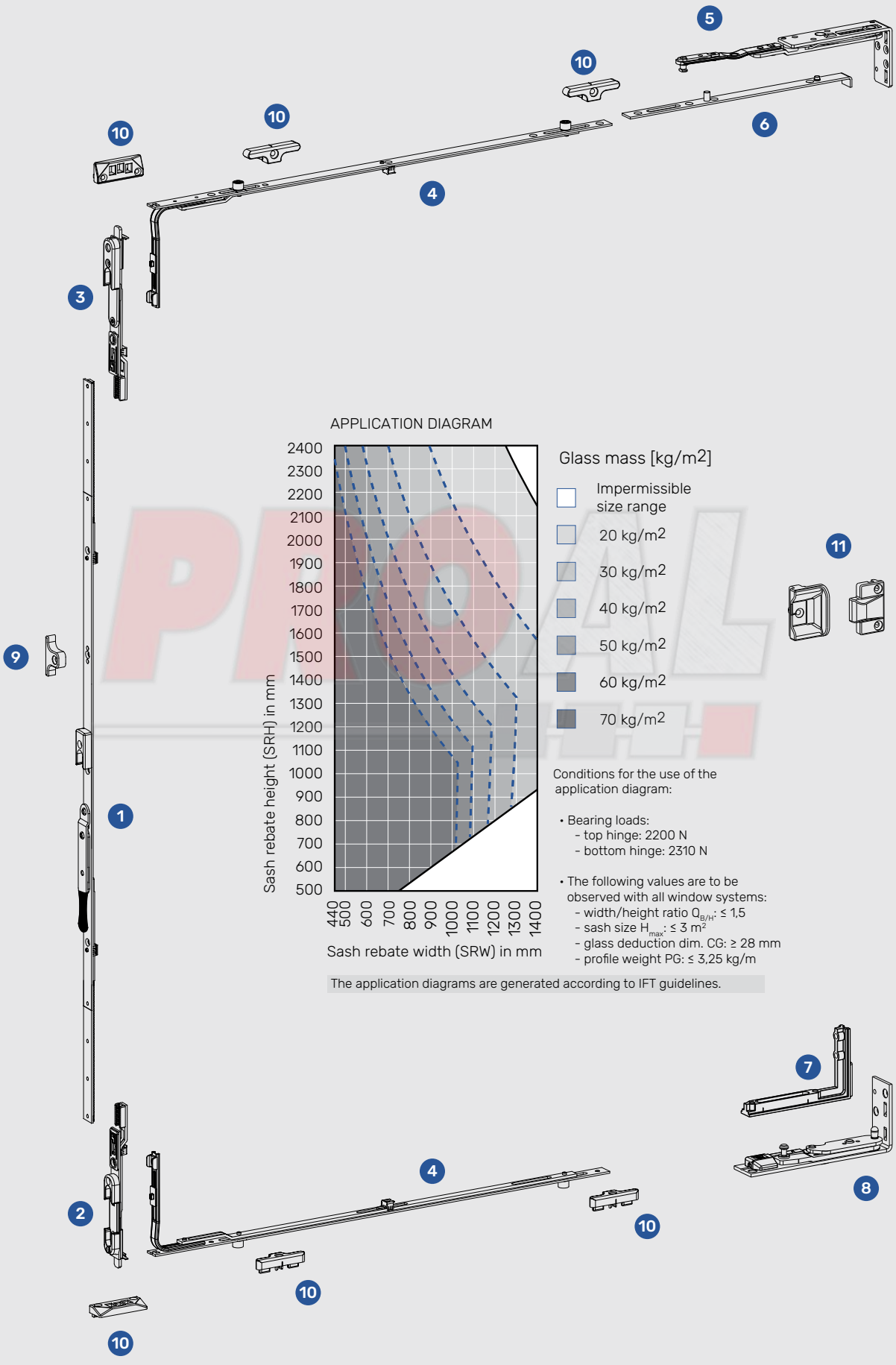
REBATE STAY ARM — PAGE 127

CORNER PIVOT — PAGE 127

TURN LIMITER — PAGE 127

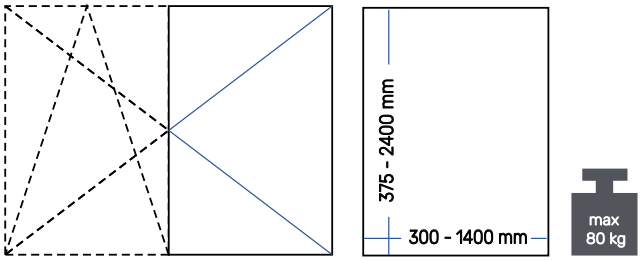
[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITHOUT PACKERS - SEE 8


5
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APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
440
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
11
9
1
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2200 N
- bottom hinge: 2310 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.
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TURN - SECOND SASH | CONCEALED HINGE SIDE

Shootbolts



1 SHOOTBOLT with striker - TOP
SHOOTBOLT WITH STRIKER 11 mm 1083253

2 SHOOTBOLT with striker - TOP
SHOOTBOLT WITHOUT STRIKER 140 11 mm 1083254

3 SHOOTBOLT with T&T striker - BOTTOM
SHOOTBOLT WITH T&T STRIKER 11 mm 1083252

4 CENTER LOCK

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

5 REBATE STAY ARM
REBATE STAY ARM CONCEALED 12/20-13 [1] PAGE 125

6 REBATE STAY ARM GUIDE
REBATE STAY ARM GUIDE 1141516

7 CORNER HINGE
CORNER HINGE CONCEALED 1136163

8 CORNER PIVOT
CORNER PIVOT CONCEALED [1] PAGE 126

9 MISHANDLING DEVICE
MISHANDLING DEVICE - OHG 1083293

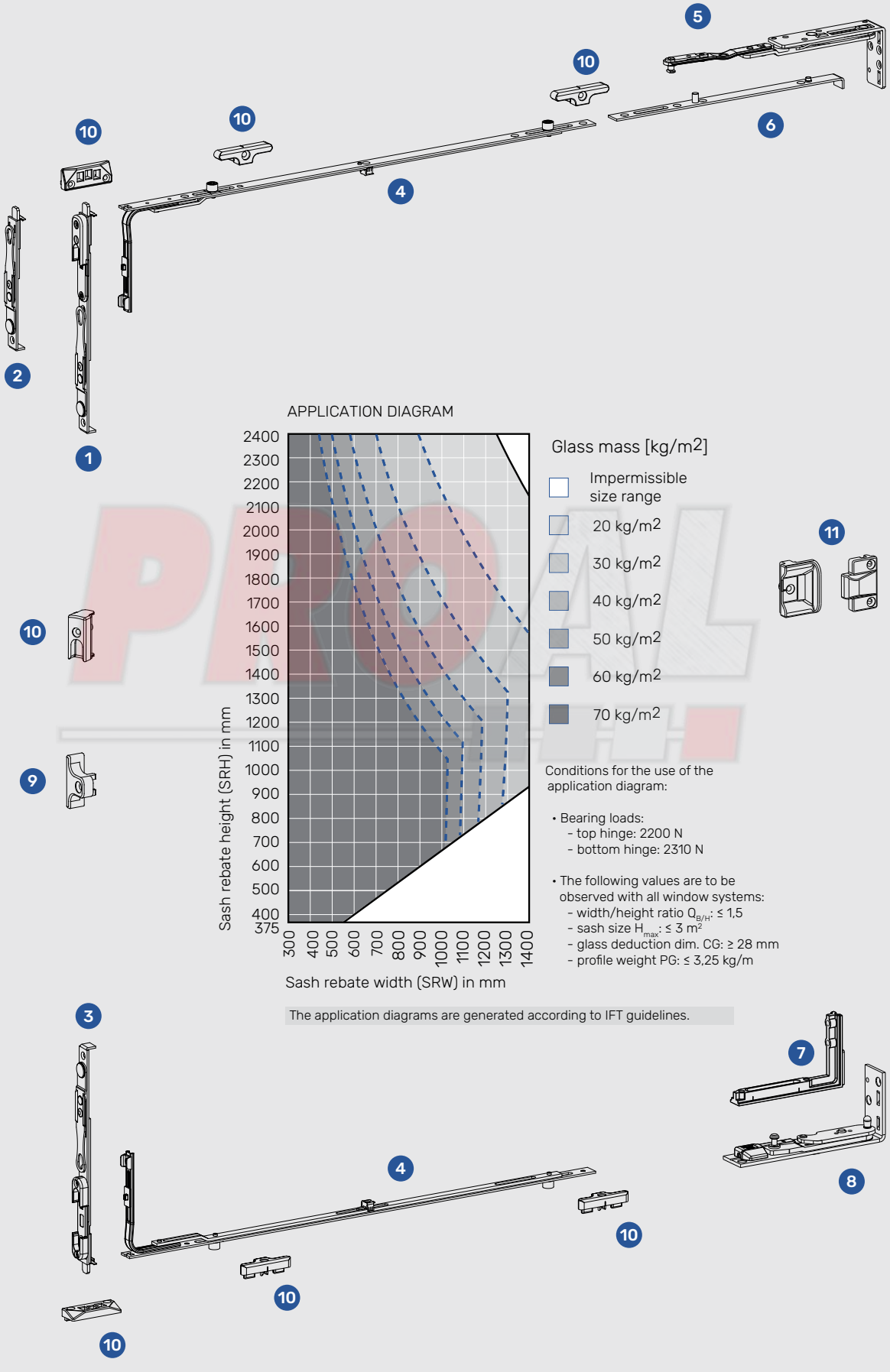
10 STRIKERS
STRIKER PAGE 135
STRIKER - OHG 1083207
SECOND SASH STRIKER for shootbolt PAGE 138

11 CONCEALED STRIKER
SASH PART 1127509
FRAME PART PAGE 141

12 SASH TURN LIMITER
SASH TURN LIMITER CONCEALED [1] 1136166

13 PACKERS
REBATE STAY ARM PAGE 127
CORNER PIVOT PAGE 127
TURN LIMITER PAGE 127

[1] WITHOUT PACKERS - SEE 8

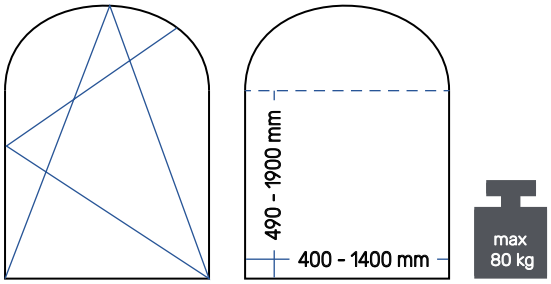

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APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
11
10
9
Sash rebate height (SRH) in mm
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
375
300
400
500
600
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800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2200 N
- bottom hinge: 2310 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
The application diagrams are generated according to IFT guidelines.
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T&TI - ARCHED WINDOW | FACE-FIT HINGE SIDE

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
(310) 490-600 [1]				1118431
600-800	263	520		1115131
801-1000	413	720	1 R	1115133
1001-1200	513	920	1 R	1115134
1201-1400	563	1120	1 R	1115135
1401-1600	563	1320	1 R	1115136
1601-1800	563	1520	1 R	1115137
1601-1800	1000	1520	1 R	1115167
1801-2000	1000	1720	2 R	1115138



2 LOCK BOLT

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

2a CENTER LOCK - ARCH

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

3a STANDARD CORNER DRIVE

STANDARD CORNER DRIVE	1 RS	1100983

3b STANDARD CORNER DRIVE

SHORT CORNER DRIVE	1 R	1103158
	1 R	1103162

4 CENTER LOCK - HORIZONTAL

Sash rebate width	Type / length		Material Nr.
(310) 400-600 [2]	320		1083076
601-1000	720	1 R	1095173
901-1400	1120	1 R	1095174

5 CENTER LOCK - VERTICAL

Sash rebate height	Length		Material
(490) 580-780 [3]	320		1083076
781-1180	720	1 R	1095173
1081-1580	1120	1 R	1095174
1581-1900	1520	1 R	1095175

6 STAY ARM SET

STAY ARM 12/20-13 WITH SASH LIFTER	1 R	1103147

7 STAY BEARING - ADJUSTABLE

ADJUSTABLE STAY BEARING WITH PIN	1103601

8 CORNER HINGE

CORNER HINGE K3	1083241

9 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

10 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

11 STRIKERS

T&Ti STRIKER	PAGE 133
STRIKER	PAGE 135

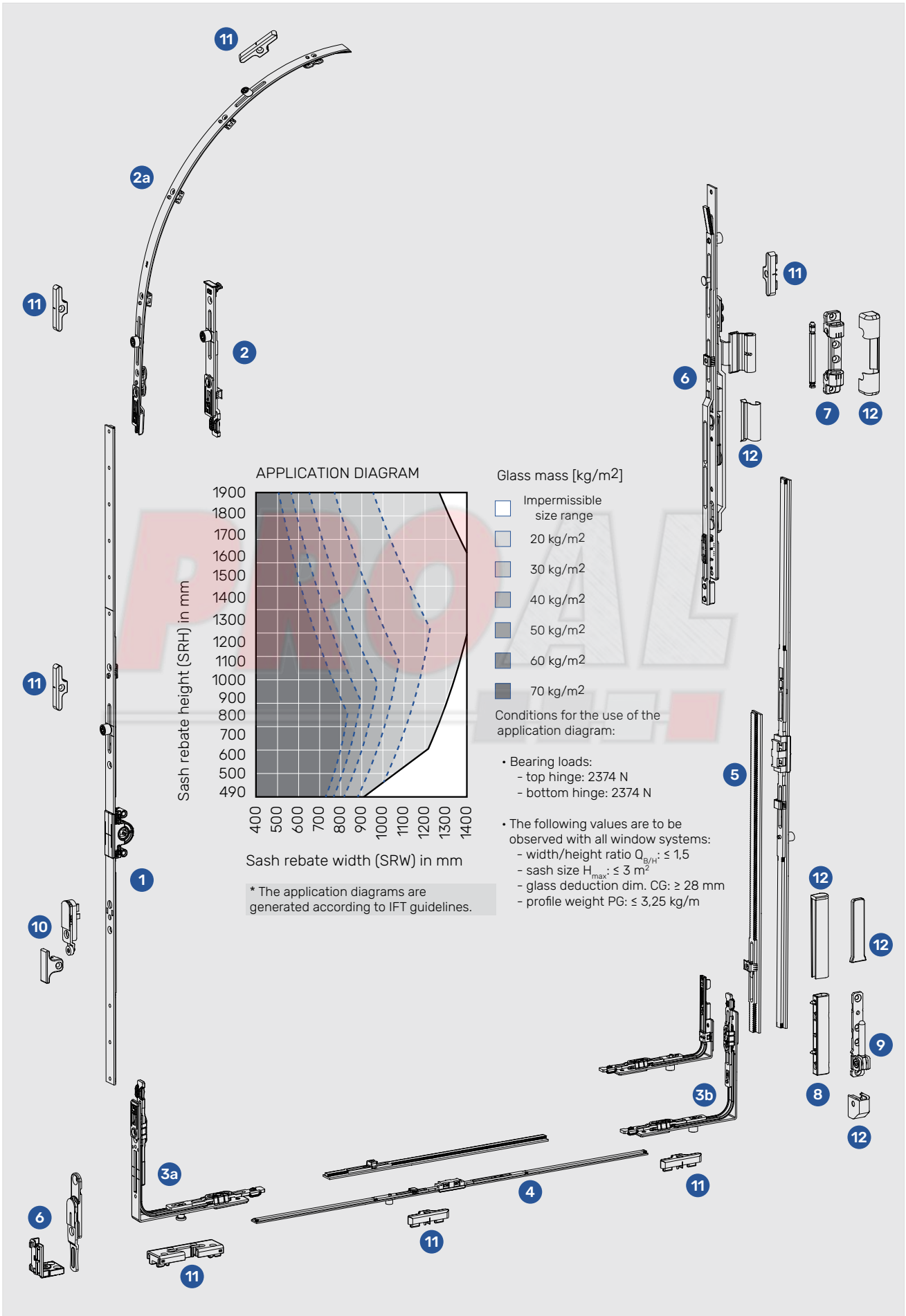
12 COVER CAPS

ADJUSTABLE STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] MISHANDLING DEVICE NOT AVAILABLE

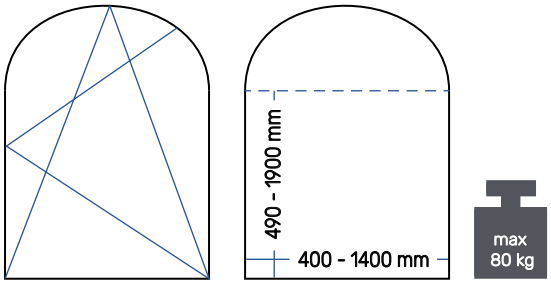
[2] WITH SHORT CORNER DRIVE

[3] WITH SHORT CORNER DRIVE


11
2a
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11
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12
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APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
490
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
* The application diagrams are generated according to IFT guidelines.
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2374 N
- bottom hinge: 2374 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
11
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3b
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3a
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11

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

Centered / variable handle height



1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
490–660 [1]	245–330	380		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

2 LOCK BOLT

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

2a CENTER LOCK - ARCH

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

3a STANDARD CORNER DRIVE

STANDARD CORNER DRIVE	1 RS	1100983

3b STANDARD CORNER DRIVE

	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

4 CENTER LOCK - HORIZONTAL

Sash rebate width	Type / length		Material Nr.
(310) 400–650 [2]	320		1083076
601–1000	720	1 R	1095173
901–1400	1120	1 R	1095174

5 CENTER LOCK - VERTICAL

Sash rebate height	Length		Material
(490) 580–780 [3]	320		1083076
781–1180	720	1 R	1095173
1081–1580	1120	1 R	1095174
1581–1900	1520	1 R	1095175

6 STAY ARM SET

STAY ARM 12/20-13 WITH SASH LIFTER	1 R	1103147

7 STAY BEARING - ADJUSTABLE

ADJUSTABLE STAY BEARING WITH PIN	1103601

8 CORNER HINGE

CORNER HINGE K3	1083241

9 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

10 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

11 STRIKERS

T&Ti STRIKER	PAGE 133
STRIKER	PAGE 135

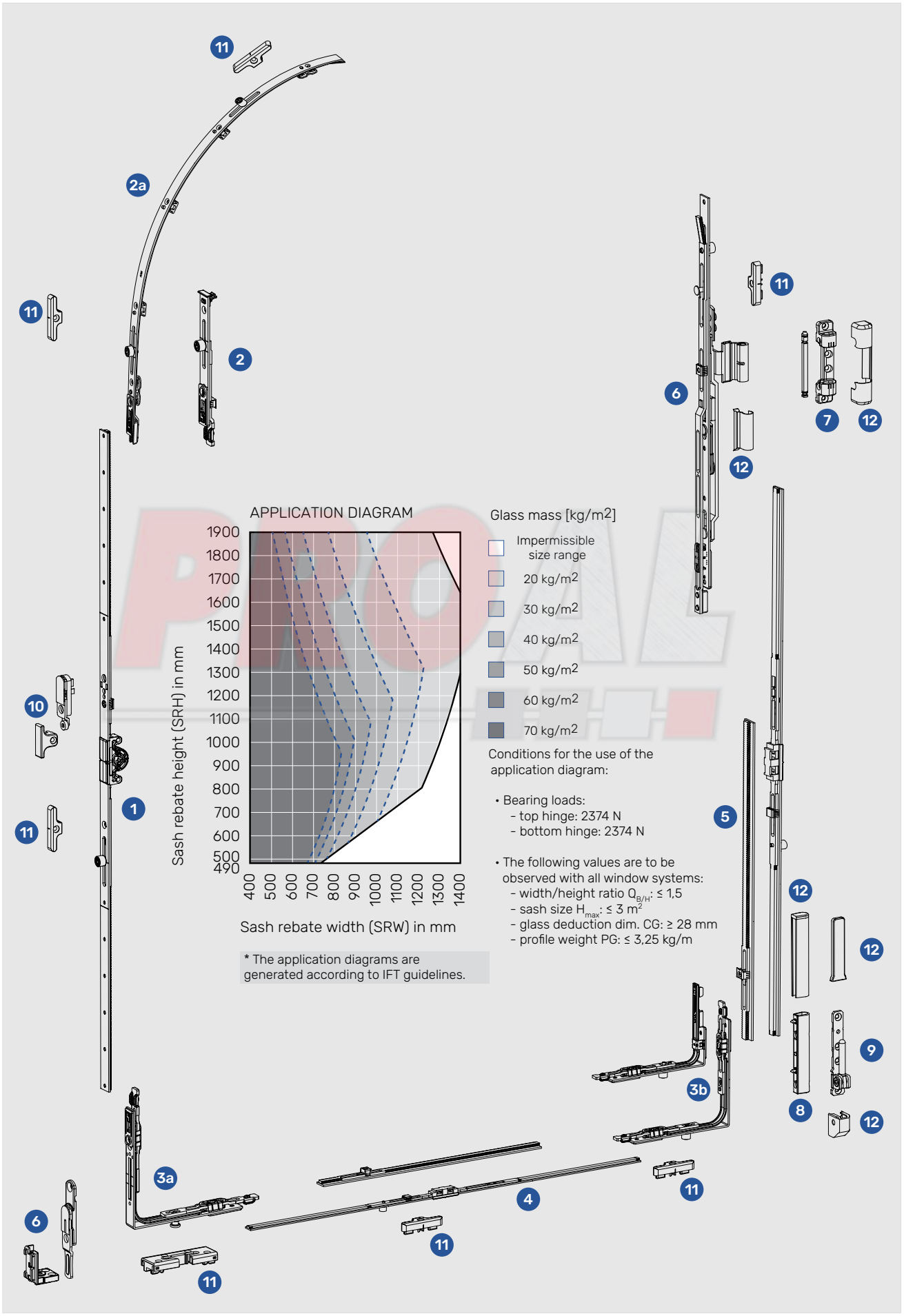
12 COVER CAPS

ADJUSTABLE STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] MISHANDLING DEVICE NOT AVAILABLE

[2] WITH SHORT CORNER DRIVE

[3] WITH SHORT CORNER DRIVE

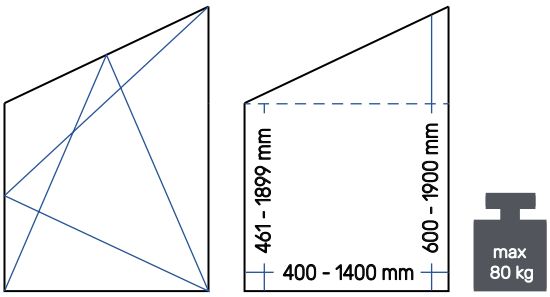

11
2a
11
2
6
11
7
12
12
APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
490
400 500 600 700 800 900 1000 1100 1200 1300 1400
Sash rebate width (SRW) in mm
* The application diagrams are generated according to IFT guidelines.
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2374 N
- bottom hinge: 2374 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
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3b
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3a
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11

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

Fixed handle height

1 T&T KV ESPAGNOLETTE BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
(310) 461-600 [1) 2)]	170	410		1118431
601-800	263	520		1115131
801-1000	413	720	1 R	1115133
1001-1200	513	920	1 R	1115134
1201-1400	563	1120	1 R	1115135
1401-1600	563	1320	1 R	1115136
1601-1800	563	1520	1 R	1115137
1601-1800	1000	1520	1 R	1115167
1801-2000	1000	1720	2 R	1115138



2 LOCK BOLT

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

2a CENTER LOCK - TOP

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

2b CORNER DRIVE - TOP

CORNER DRIVE PITCHED		1 R	1103163

3a CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE		1 RS	1100983

3b STANDARD CORNER DRIVE

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

4 CENTER LOCK - HORIZONTAL

Sash rebate width	Type / length		Material Nr.
(310) 400-600	320		1083076
601-1000	720	1 R	1095173
901-1400	1120	1 R	1095174

5 CENTER LOCK - VERTICAL

Sash rebate height	Length		Material
(520) 610-810	320		1083076
811-1210	720	1 R	1095173
1181-1610	1120	1 R	1095174
1611-1930	1520	1 R	1095175

6 STAY ARM SET

STAY ARM 12/20-13 WITH SASH LIFTER	1 R	1103147

7 STAY BEARING - ADJUSTABLE

ADJUSTABLE STAY BEARING WITH PIN	1103601

8 CORNER HINGE

CORNER HINGE K3	1083241

9 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

10 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

11 STRIKERS

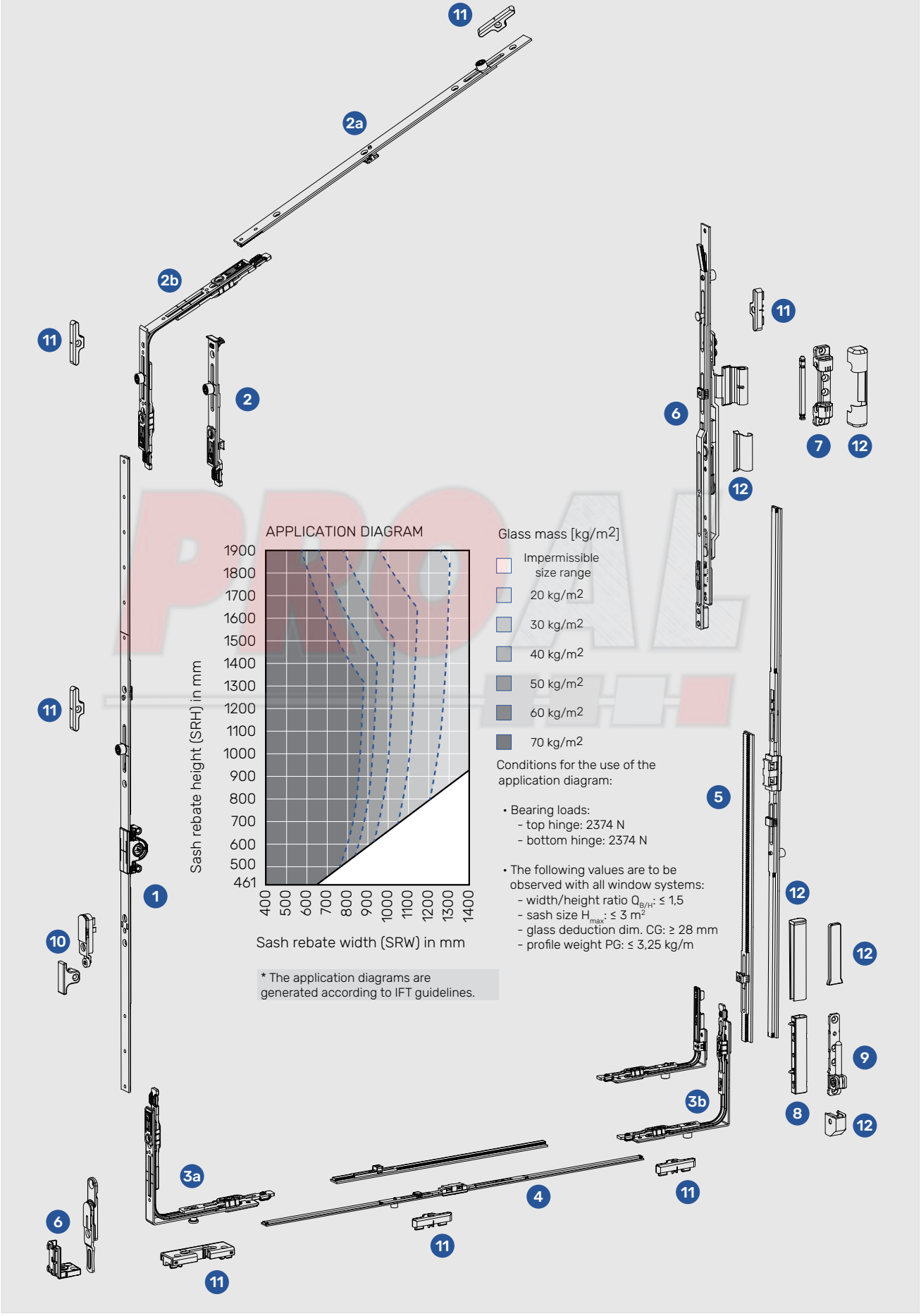
T&Ti STRIKER	PAGE 133
STRIKER	PAGE 135

12 COVER CAPS

ADJUSTABLE STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1)] MISHANDLING DEVICE NOT AVAILABLE

[2)] MUST USE SHORT CORNER DRIVE ON BOTTOM


11
2a
2b
11
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11
7
12
12
APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
461
400 500 600 700 800 900 1000 1100 1200 1300 1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2374 N
- bottom hinge: 2374 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
* The application diagrams are generated according to IFT guidelines.
11
1
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12
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12
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3b
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12
3a
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11
11

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

Centered / variable handle height

1 T&T ESPAGNOLETTE M BS 14,5 mm

Sash rebate height	Handle height	Lenght		Material
490–660 [1]	245–330	380		1083117
600–1000	300–500	720	1 R	1088473
900–1400	450–700	1120	1 R	1098964
1401–1800	701–900	1520	1 R	1098965
1601–1900	801–1000	1720	2 R	1098966

2 LOCK BOLT

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

2a CENTER LOCK - TOP

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

2b CORNER DRIVE - TOP

CORNER DRIVE PITCHED	1 R	1103163

3a CORNER DRIVE - BOTTOM

STANDARD CORNER DRIVE	1 RS	1100983

3b STANDARD CORNER DRIVE

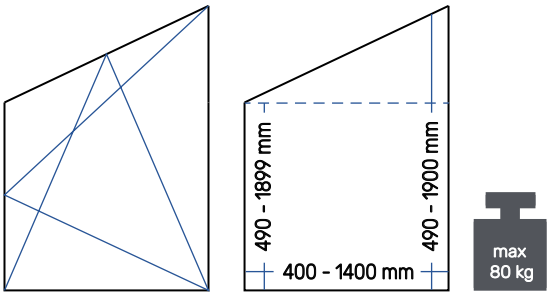
	1 R	1103158
SHORT CORNER DRIVE	1 R	1103162

4 CENTER LOCK - HORIZONTAL

Sash rebate width	Type / length		Material Nr.
(310) 400–600	320		1083076
601–1000	720	1 R	1095173
901–1400	1120	1 R	1095174

5 CENTER LOCK - VERTICAL

Sash rebate width	Length		Material
(520) 610–810	320		1083076
811–1210	720	1 R	1095173
1181–1610	1120	1 R	1095174
1611–1930	1520	1 R	1095175



6 STAY ARM SET

STAY ARM 12/20-13 WITH SASH LIFTER	1 R	1103147

7 STAY BEARING - ADJUSTABLE

ADJUSTABLE STAY BEARING WITH PIN	1103601

8 CORNER HINGE

CORNER HINGE K3	1083241

9 CORNER PIVOT REST

CORNER PIVOT REST K3	1083247

10 MISHANDLING DEVICE

SASH PART	1093907
FRAME PART	PAGE 137

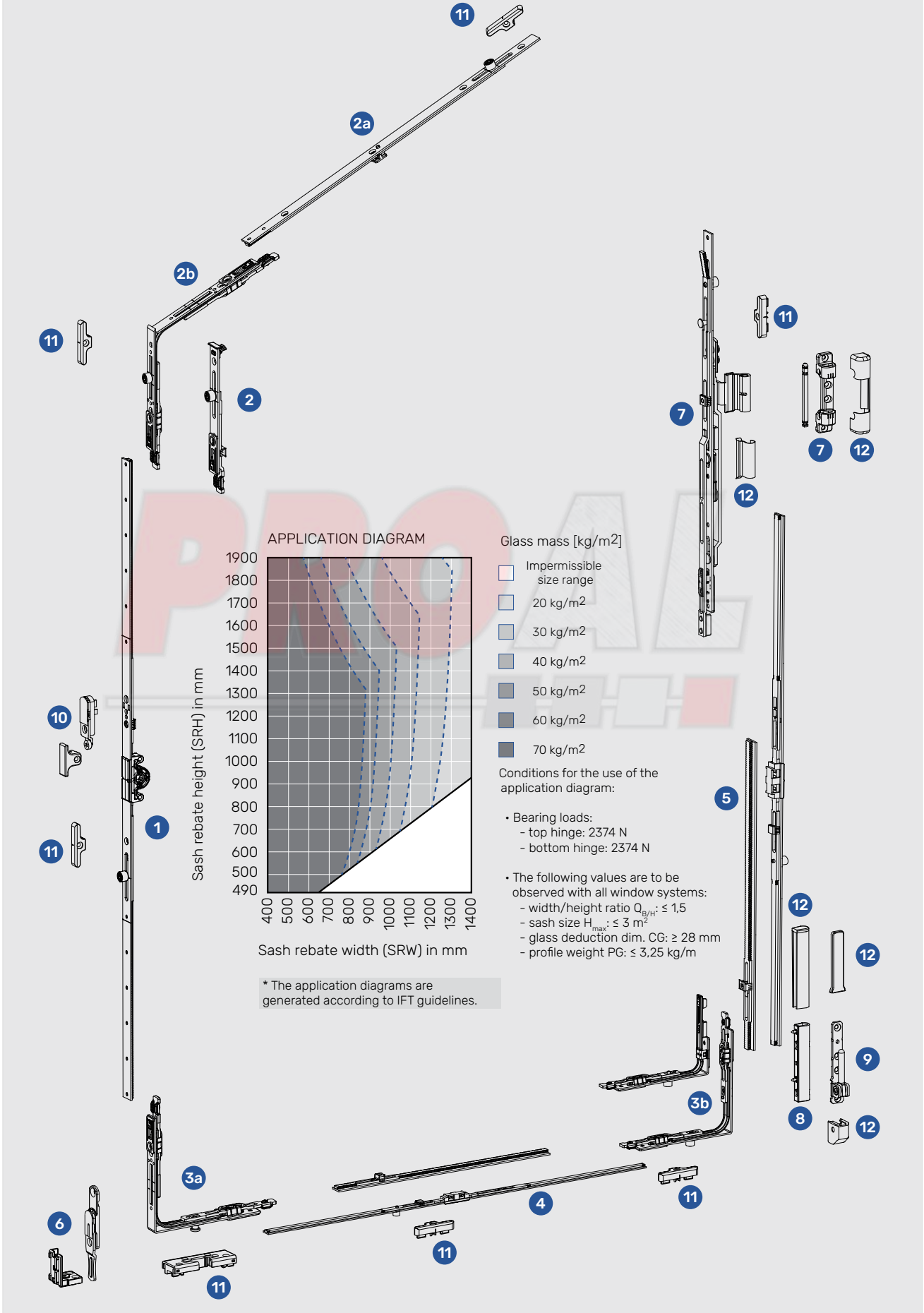
11 STRIKERS

T&Ti STRIKER	PAGE 133
STRIKER	PAGE 135

12 COVER CAPS

ADJUSTABLE STAY BEARING	PAGE 130
STAY ARM	PAGE 130
CORNER HINGE	PAGE 130
CORNER PIVOT REST	PAGE 130
CORNER PIVOT REST - FLAT	PAGE 130

[1] MISHANDLING DEVICE NOT AVAILABLE


11
2a
2b
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12
APPLICATION DIAGRAM
Glass mass [kg/m2]
Impermissible size range
20 kg/m2
30 kg/m2
40 kg/m2
50 kg/m2
60 kg/m2
70 kg/m2
Sash rebate height (SRH) in mm
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
490
400
500
600
700
800
900
1000
1100
1200
1300
1400
Sash rebate width (SRW) in mm
Conditions for the use of the application diagram:
• Bearing loads:
- top hinge: 2374 N
- bottom hinge: 2374 N
• The following values are to be observed with all window systems:
- width/height ratio $Q_{B/H}$: ≤ 1,5
- sash size H_{max}: ≤ 3 m²
- glass deduction dim. CG: ≥ 28 mm
- profile weight PG: ≤ 3,25 kg/m
* The application diagrams are generated according to IFT guidelines.
10
11
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3b
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3a
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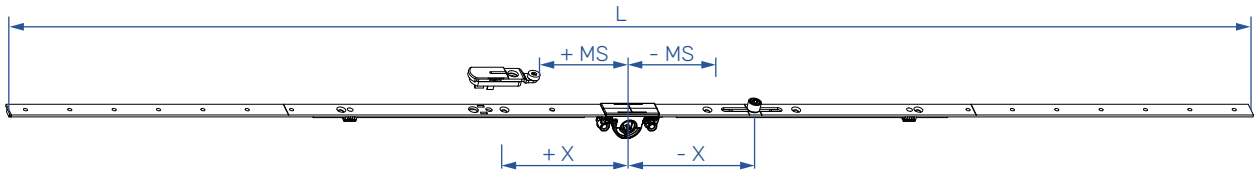


Product portfolio

Individual products
Detailed information

T&T ESPAGNOLETTE M

Centered / variable handle height



Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
420-660 [1]	210-330	380	•	•	•	•	•	10	1083117
600-1000	300-500	720	-111	•	+ 38,5	1	2	10	1088473
900-1400	450-700	1120	-111	•	+ 99,5	1	5	10	1098964
1401-1800	701-900	1520	- 111	•	+ 99,5	1	7	10	1098965
1601-2000	801-1000	1720	- 311	+ 309	-121,5	2	8	10	1098966
2001-2400	1001-1200	2120	- 311	+ 309	- 121,5	2	10	10	1098967

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

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

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

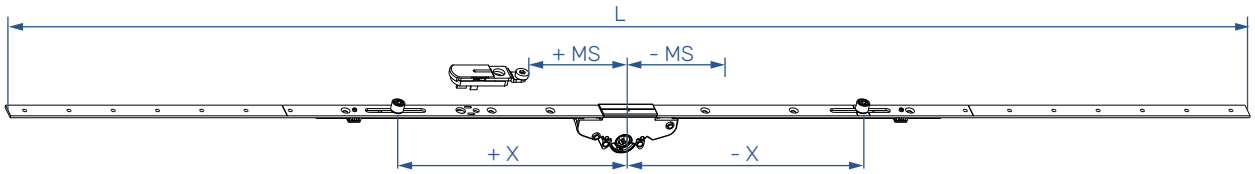
Backset 7,5 mm

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

[1] MISHANDLING DEVICE NOT AVAILABLE

T&T ESPAGNOLETTE M - LARGER BACKSETS

Centered / variable handle height



Backset 25 mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
420-660 [1]	210-330	380	•	•	•	•	•	•	•	6	1104484
600-1000	300-500	720	•	•	-111	•	+38,5	1	2	6	1104485
900-1400	450-700	1120	•	+209	-211	•	+99,5	2	6	6	1104486
1401-1800	701-900	1520	•	+209	-211	•	+99,5	2	8	6	1104487
1601-2000	801-1000	1720	+559	+109	-311	•	-121,5	3	9	6	1104488
2001-2400	1001-1200	2120	+629	+309	-311	-631	-121,5	4	12	6	1104489

Backset 30 mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
420-660 [1]	210-330	380	•	•	•	•	•	•	•	6	1107647
600-1000	300-500	720	•	•	-111	•	+38,5	1	2	6	1107648
900-1400	450-700	1120	•	+209	-211	•	+99,5	2	6	6	1104449
1401-1800	701-900	1520	•	+209	-211	•	+99,5	2	8	6	1104450
1601-2000	801-1000	1720	+559	+109	-311	•	-121,5	3	9	6	1104451
2001-2400	1001-1200	2120	+629	+309	-311	-631	-121,5	4	12	6	1104452

Backset 35 mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
420-660 [1]	210-330	380	•	•	•	•	•	•	•	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

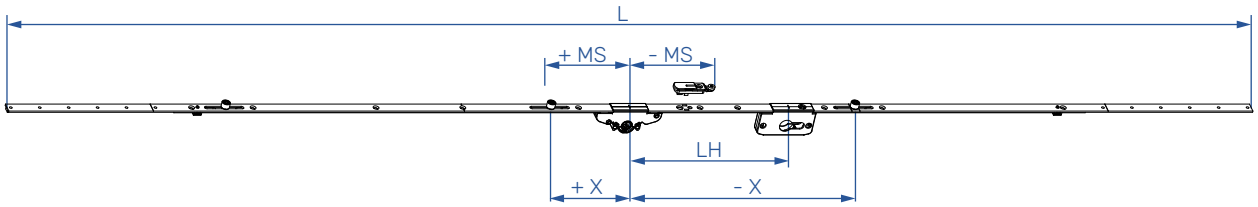
Backset 45 mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
420-660 [1]	210-330	380	•	•	•	•	•	•	•	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

SRH	HH	L	X	X	X	X	MS	LH			PACK.	MATERIAL
1601–2000	801–1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1104477

Backset 30 mm

SRH	HH	L	X	X	X	X	MS	LH			PACK.	MATERIAL
1601–2000	801–1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1107659

Backset 35 mm

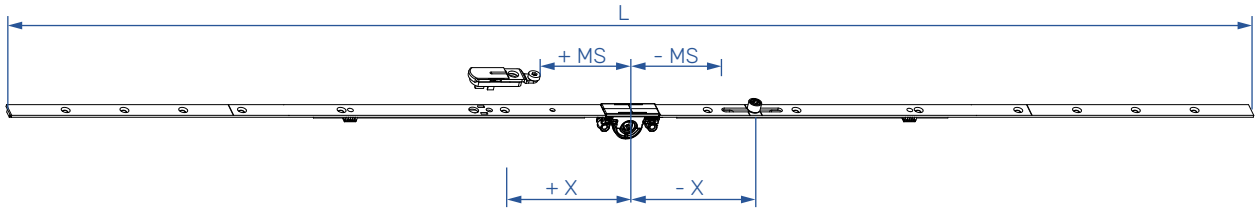
SRH	HH	L	X	X	X	X	MS	LH			PACK.	MATERIAL
1601–2000	801–1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1107662

Backset 45 mm

SRH	HH	L	X	X	X	X	MS	LH			PACK.	MATERIAL
1601–2000	801–1000	1720	+559	+109	-311	•	-121,5	220	3	10	6	1104482

ESPAGNOLETTE M

Centered / variable handle height



Backset 14,5mm

SRH	HH	L	X	X	X	X	MS			PACK.	MATERIAL
180–250 [1)2)]	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

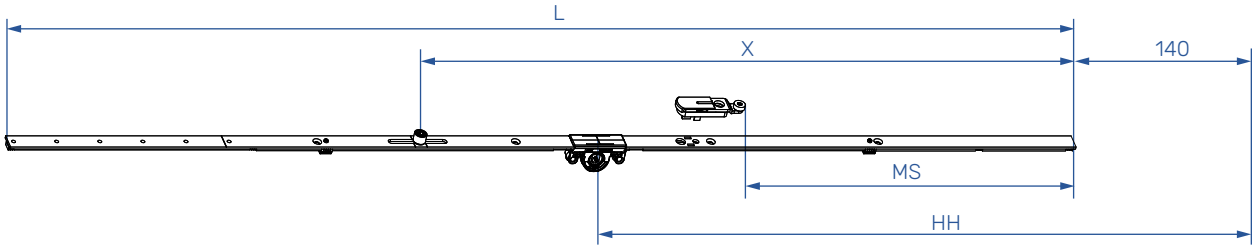
PROAL

[1)] MISHANDLING DEVICE NOT AVAILABLE

[2)] HARDWARE SHORTENING NOT POSSIBLE

T&T ESPAGNOLETTE KV

Fixed handle height



Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
320–460 [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	•	244	1	4	10	1115134
1201–1400	563	1120	539	•	244	1	6	10	1115135
1401–1600	563	1320	539	•	244	1	7	10	1115136
1601–1800	563	1520	539	•	244	1	8	10	1115137
1601–1800	1000	1520	539	•	244	1	8	10	1115167
1801–2000	1000	1720	1209	539	977	2	11	10	1115138
2001–2200	1000	1920	1209	539	977	2	12	10	1115139
2201–2400	1000	2120	1209	539	977	2	13	10	1115140

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

[1)] MISHANDLING DEVICE NOT AVAILABLE

[2)] WITH INTEGRATED CORNER DRIVE 1 RS

[3)] SIDE TILT - T&T

[4)] BOTTOM TILT - T&Ti

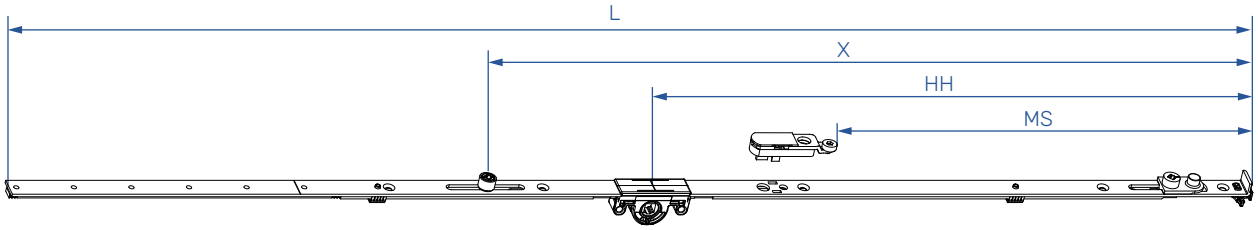
[5)] MUST USE SHORT CORNER DRIVE ON BOTTOM

* T&T = WITH T&T LOCK BOLT

* T&Ti = WITH CORNER DRIVE 1 RS

T&T ESPAGNOLETTE

Fixed handle height



Backset 14,5 mm

SRH	HH	L	X	X	MS			PACK.	MATERIAL
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

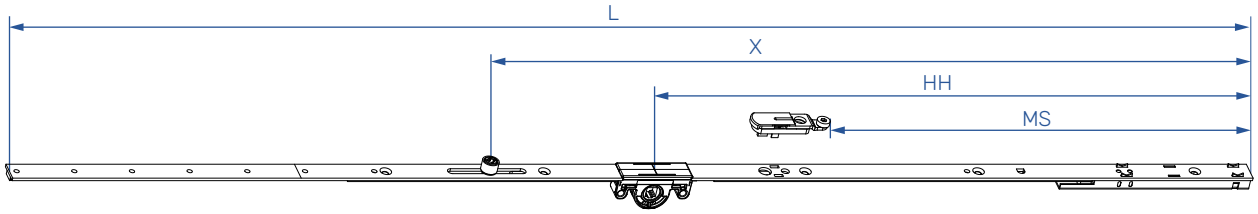
[1] MISHANDLING DEVICE NOT AVAILABLE

* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

REVERSE ACTION ESPAGNOLETTE

Fixed handle height

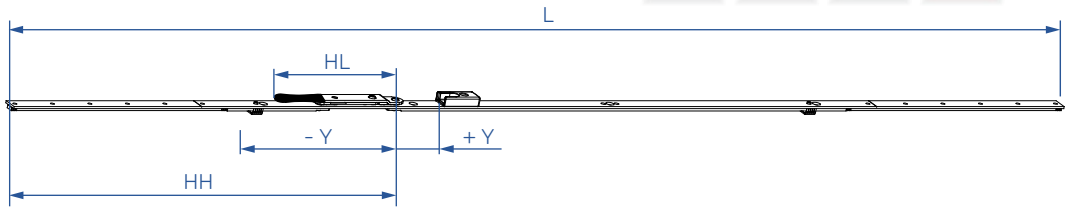


Backset 14,5 mm

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

FRENCH WINDOW ESPAGNOLETTE M

Centered / variable handle height



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

[1] MISHANDLING DEVICE NOT AVAILABLE

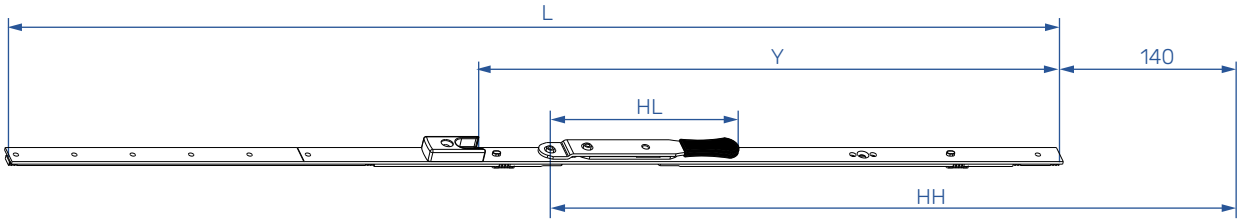
[2] T&T ESPAGNOLETTE M BACKSET COMPATIBLE

[3] FOR ADDITIONAL LOCKING CAM - INSTALL STRIKER **1100213**

• POSSIBLE FR. WIN. ESPAGNOLETTE BULLET CATCH

FRENCH WINDOW ESPAGNOLETTE KV

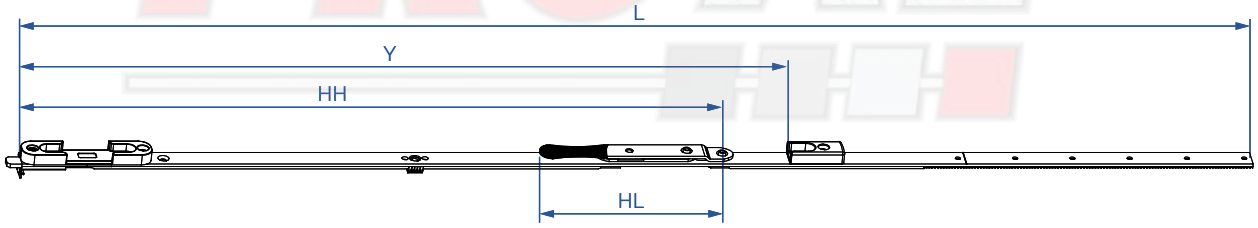
Fixed handle height



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

FRENCH WINDOW ESPAGNOLETTE T&T

Fixed handle height



SRH	HH	L	Y	Y		PACK.	MATERIAL
600–800 [2)]	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)] MUST USE SHORT CORNER DRIVE ON BOTTOM

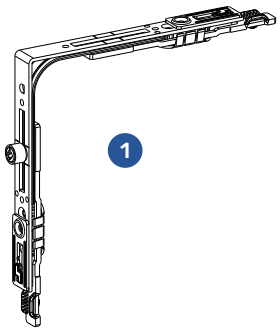
[2)] MISHANDLING DEVICE NOT AVAILABLE

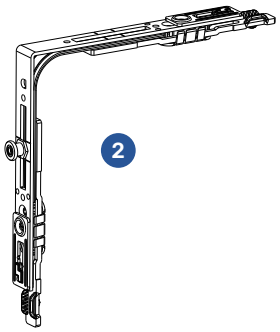
• POSSIBLE FR. WIN. ESPAGNOLETTE BULLET CATCH

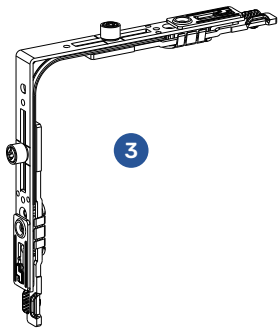
* WITHOUT THE USE OF CENTER LOCK

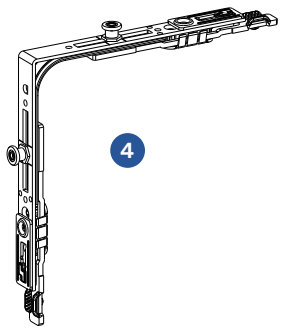
(X) WITH THE USE OF CENTER LOCK

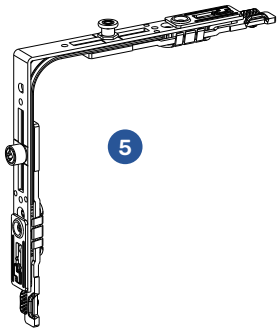
CORNER DRIVE

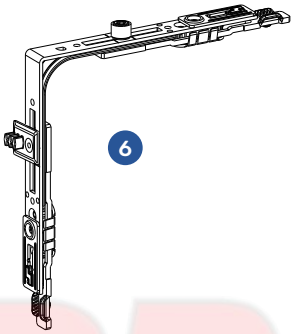

1

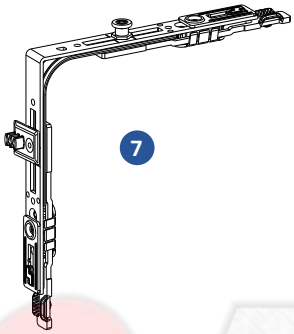

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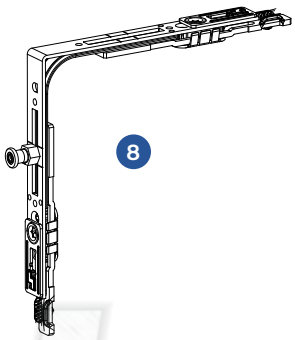

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4

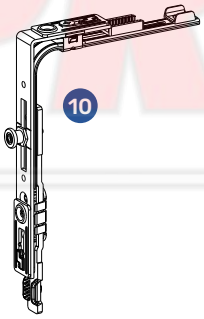

5


6


7

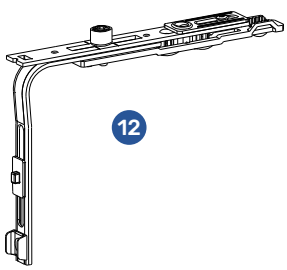

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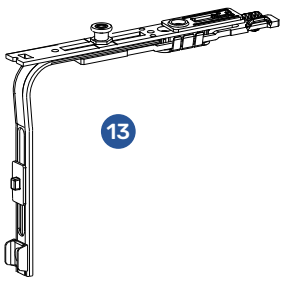

9

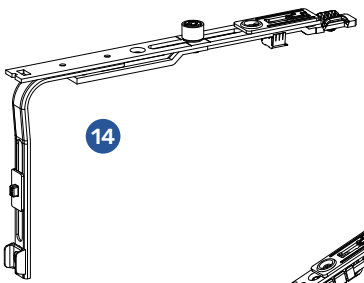

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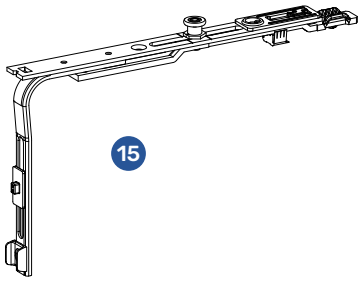

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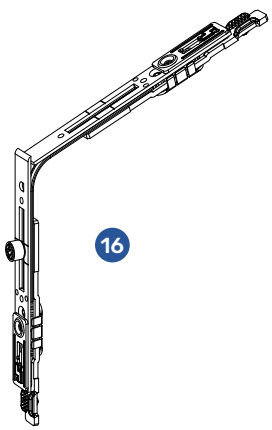

17


12


13


14

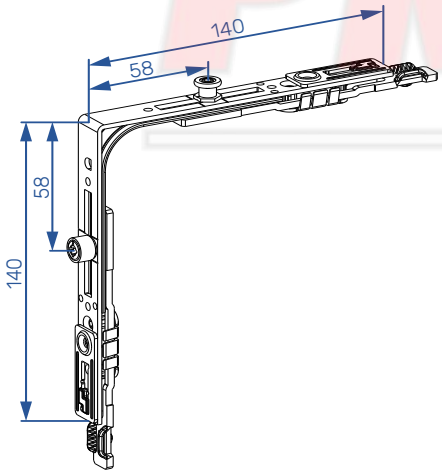

15

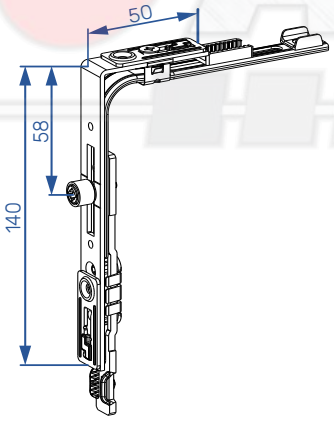

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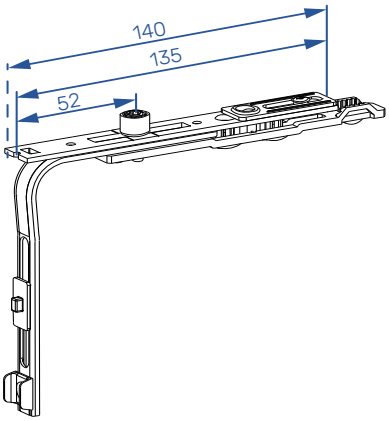
PROAL

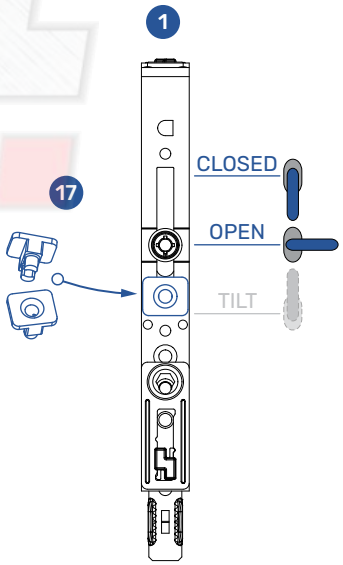
CORNER DRIVE

TYPE	DESCRIPTION	CAM					PACK.	MATERIAL
1	Corner drive	1 **R**		1	•	4	10	1103158
2	Corner drive	1 **RS**		1	•	4	10	1100983
3	Corner drive	2 **R**		2	•	4	10	1103159
4	Corner drive	2 **RS**		2	•	4	10	1100984
5	Corner drive	1 **R** + 1 **RS**		2	•	4	10	1100985
6	Corner drive	1 **R** + **NV**	**R**	1	1	4	10	1103160
6a	Corner drive	1 **R** + **NV**	**L**	1	1	4	10	1103165
7	Corner drive	1 **RS** + **NV**	**R**	1	1	4	10	1116988
7a	Corner drive	1 **RS** + **NV**	**L**	1	1	4	10	1116987
8*	Corner drive	1 **RS LONG**		1	•	4	10	1113170
9	Short corner drive	1 **R**		1	•	3	10	1103162
10	Short corner drive	1 **RS**		1	•	3	10	1100986
11	Short corner drive	Shootbolt		1	•	3	10	1103161
12	Corner lock 140	1 **R**		1	•	2	10	1103166
13	T&Ti Corner lock 140 - SECURITY	1 **RS**		1	•	2	10	1100988
14	Corner lock 180	1 **R**		1	•	2	10	1103164
15	T&Ti Corner lock 180 - SECURITY	1 **RS**		1	•	2	10	1100987
16	Corner drive - Pitched window	1 **R**		1	•	4	10	1103163
17	Movement restrictor 90° for corner drive	•		•	•	1	100	1142599



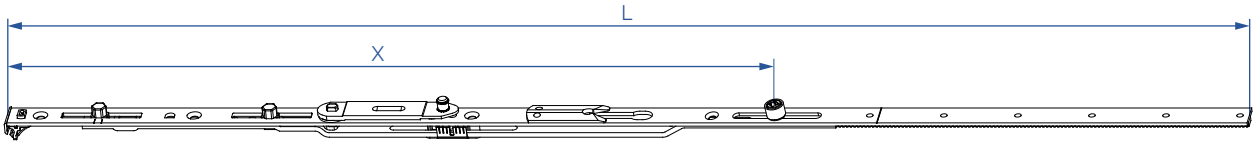






* FOR LOW THRESHOLD - USE IN COMBINATION WITH T&TI STRIKER **1116153**

SASH-STAY GUIDE



Turn & tilt

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

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

Turn only - SECOND SASH

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

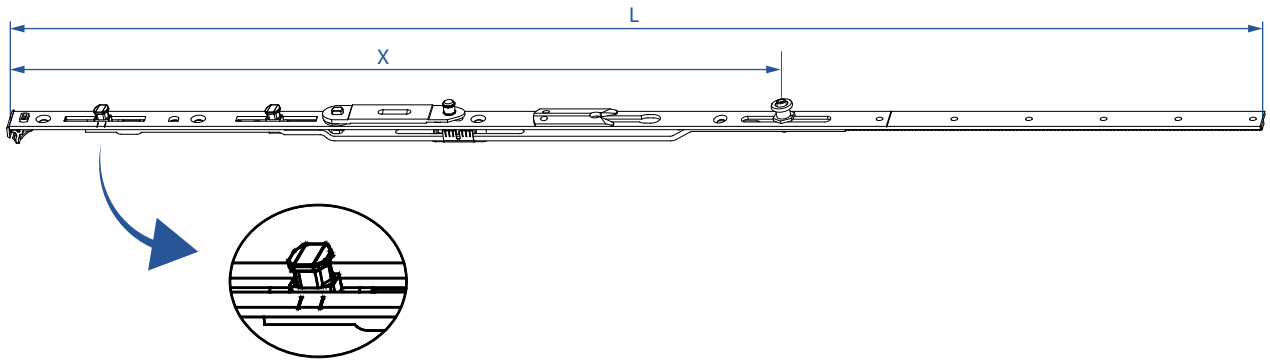
[1] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE

* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

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

Sash stay guide - additional security



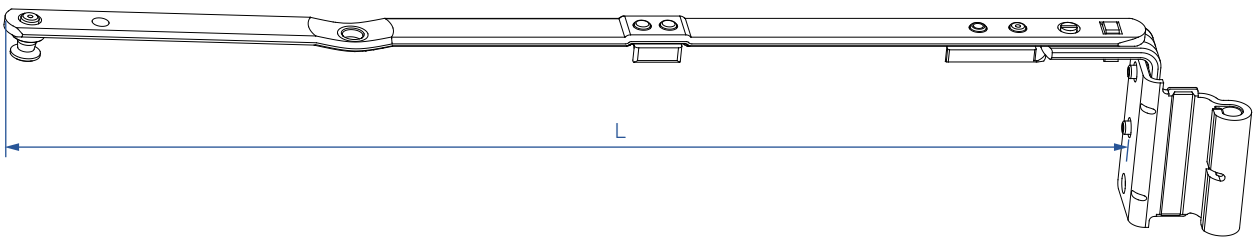
SRW	L	X			PACK.	MATERIAL
250–430 [1]	150 / 290	•	•	2* (1)	10	1144882
411–610	250 / 470	•	•	3* (2)	10	1144883
611–810	350 / 670	•	•	5* (4)	10	1144884
811–1010	500 / 870	547	1	6* (5)	10	1144885
1011–1210	500 / 1070	608	1	8* (7)	10	1144886
1211–1400	500 / 1270	808	1	9* (8)	10	1144887

[1] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE

* WITHOUT THE USE OF CENTER LOCK

(X) WITH THE USE OF CENTER LOCK

Stay arm

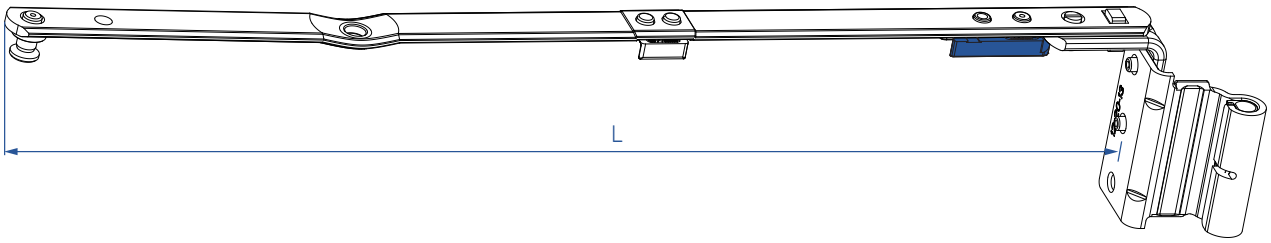


SYSTEM	SRW	L	POSITION	PACK.	MATERIAL
12/20-9	250–430 [1]	150	L	10	1131552
	250–430 [1]	150	R	10	1131553
	410–610	250	L	10	1083008
	410–610	250	R	10	1083009
	611–810	350	L	10	1083010
	611–810	350	R	10	1083011
	811–1400	500	L	10	1083012
	811–1400	500	R	10	1083013
12/20-13	250–430 [1]	150	L	10	1123306
	250–430 [1]	150	R	10	1123307
	410–610	250	L	10	1083016
	410–610	250	R	10	1083017
	611–810	350	L	10	1083018
	611–810	350	R	10	1083019
	811–1400	500	L	10	1083020
	811–1400	500	R	10	1083021
12/22-13	250–430 [1]	150	L	10	1131554
	250–430 [1]	150	R	10	1131555
	410–610	250	L	10	1083030
	410–610	250	R	10	1083031
	611–810	350	L	10	1083032
	611–810	350	R	10	1083033
	811–1400	500	L	10	1083034
	811–1400	500	R	10	1083035
TILT FIRST 12/20-13	320–610 [2]	250	L	10	1083025
	320–610 [2]	250	R	10	1083024
	611–810	350	L	10	1083027
	611–810	350	R	10	1083026
	811–1400	500	L	10	1083029
	811–1400	500	R	10	1083028

[1] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE AND SASH STAY GUIDE 150 / 290

[2] SRW = 320 - 410 mm, WITH SHORT CORNER DRIVE AND SASH STAY GUIDE 250 / 470

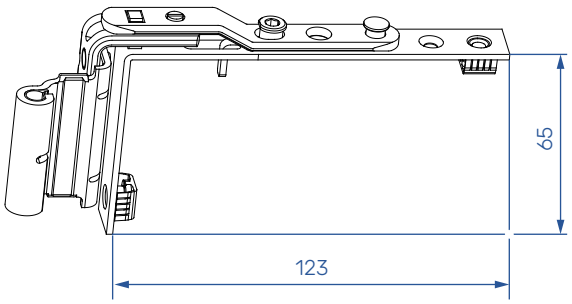
Stay arm - additional security



SYSTEM	SRW	L	POSITION	PACK.	MATERIAL
12/20-13	250–430 [1]	150	L	10	1144380
	250–430 [1]	150	R	10	1144381
	410–610	250	L	10	1144382
	410–610	250	R	10	1144383
	611–810	350	L	10	1144384
	611–810	350	R	10	1144385
	811–1400	500	L	10	1144386
	811–1400	500	R	10	1144387

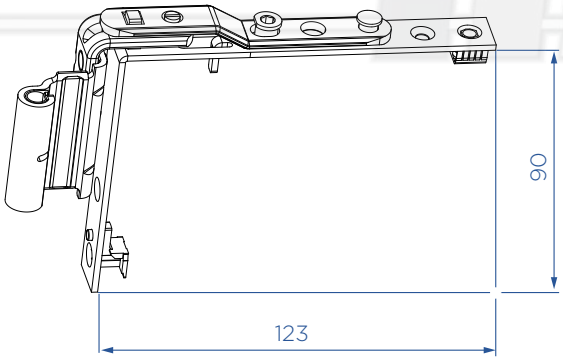
[1] SRW = 250 - 340 mm, WITH SHORT CORNER DRIVE AND SASH STAY GUIDE 150 / 290

Rebate stay arm



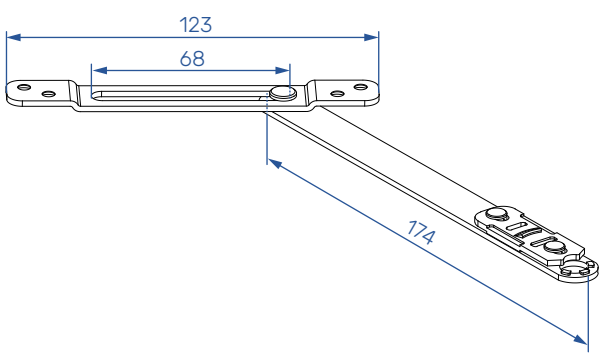
SYSTEM	POSITION		PACK.	MATERIAL
12/20-9	L	4	40	1083265
	R	4	40	1083264
12/20-13	L	4	40	1083263
	R	4	40	1083262
12/22-13	L	4	40	1083266
	R	4	40	1083267

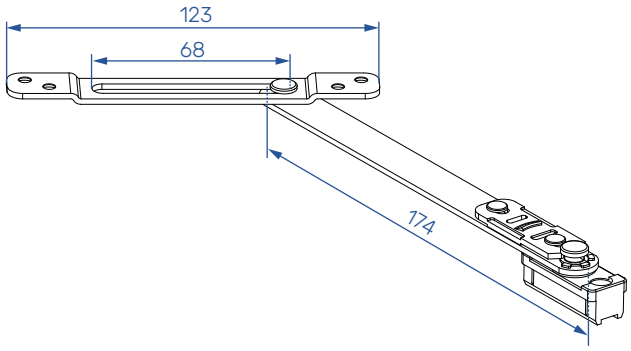
Rebate stay arm - ALU



SYSTEM	POSITION		PACK.	MATERIAL
12/20-9	L	4	40	1146161
	R	4	40	1146162

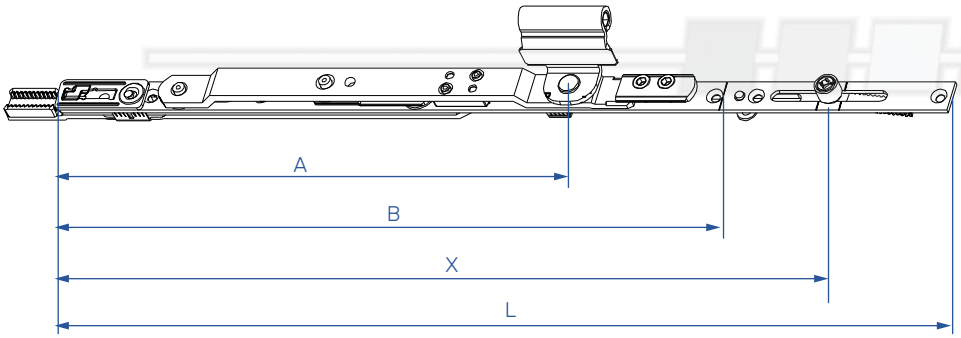
Tilt stay

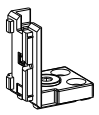




TYPE	DESCRIPTION		PACK.	MATERIAL
1	TILT STAY for espagnolette	5	100	1099152
2	TILT STAY for groove	7	100	1099154

Stay arm & lifter for arched / pitched window





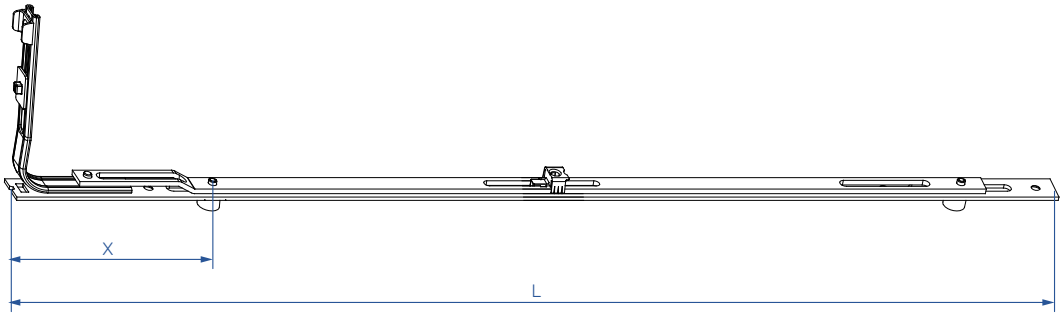
LIFTER FRAME PART



LIFTER

SYSTEM	L	X	A	B			PACK.	MATERIAL
12/20-9	430	372	249	320	1	1	10	1103144
12/20-13	430	372	249	320	1	1	10	1103147
12/22-13	430	372	249	320	1	1	10	1103148

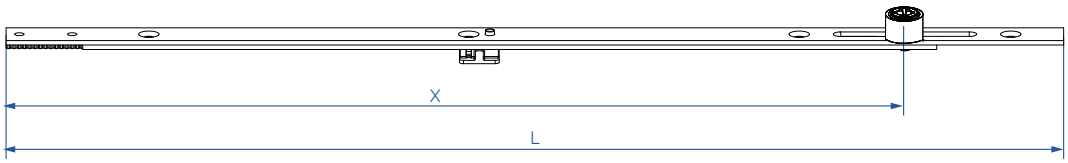
With guide



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

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

Without guide

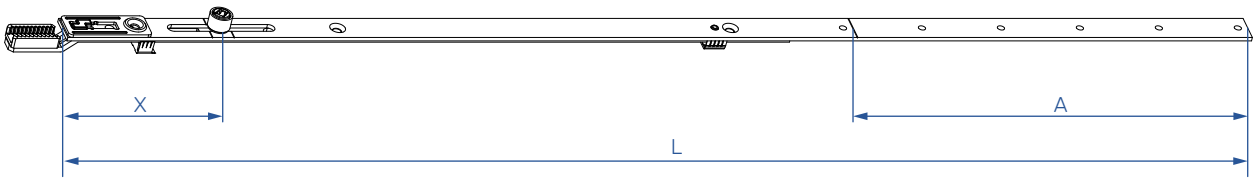


DESCRIPTION	L	X			PACK.	MATERIAL
400	400	339	1	4	10	1083061
600	600	539	1	4	10	1083062
600 coupling	600	539	1	4	10	1102900

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

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

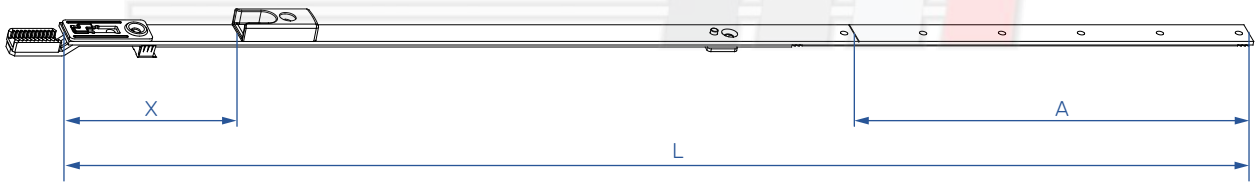
Primary window



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

DESCRIPTION	A	L	X			PACK.	MATERIAL
400	200	400	79	1	3	10	1137685
600	200	600	79	1	4	10	1140952
800	200	800	79	1	5	10	1144538

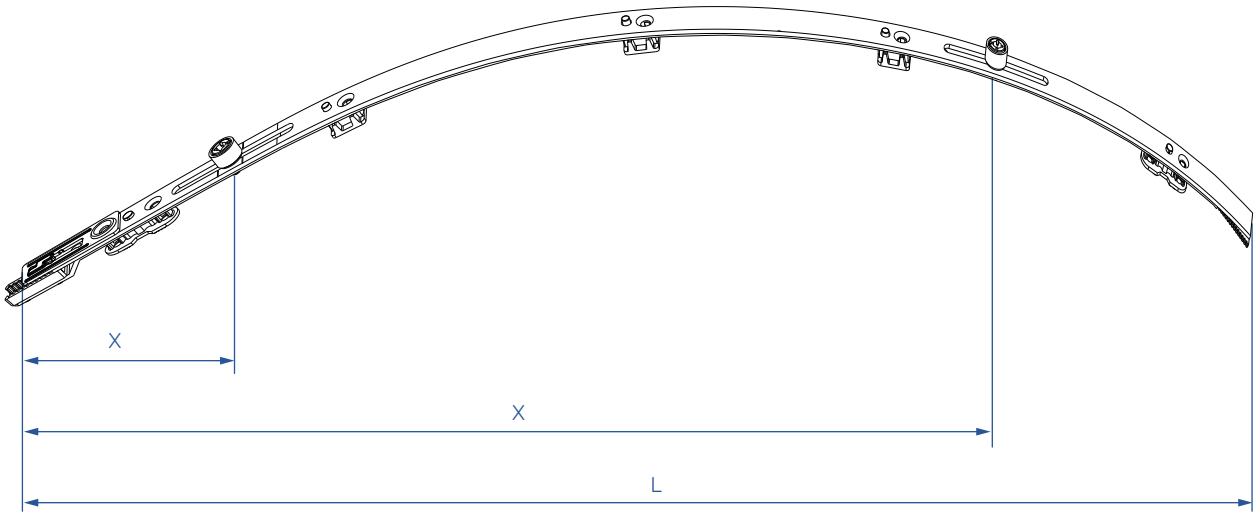
French window



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

CENTER LOCK - ARCHED / PITCHED WINDOW

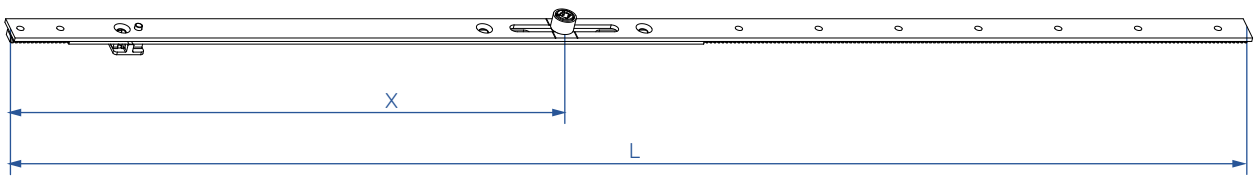
Arched



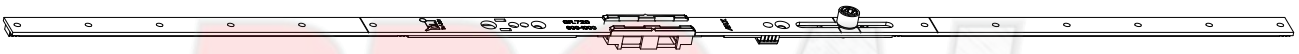
SRW	L	X	X			PACK.	MATERIAL
800-1400	590	79	429	2	6	10	1103143

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

CENTER LOCK - ARCHED / PITCHED WINDOW

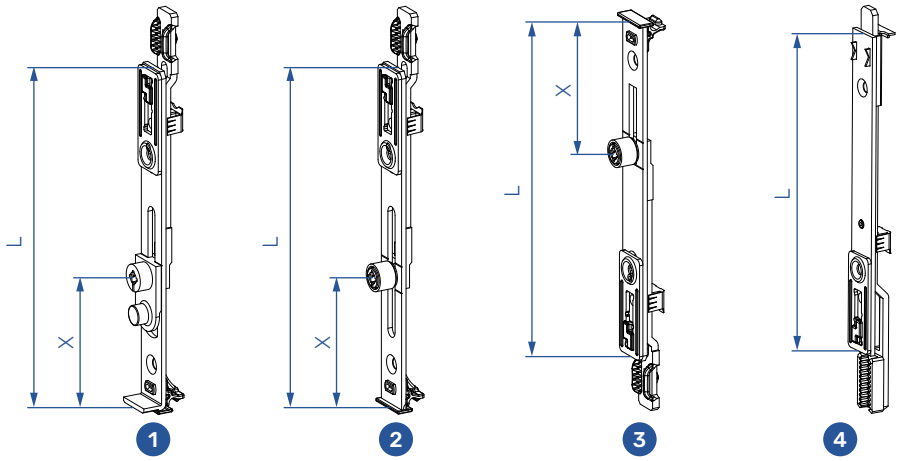


SRW	L	X	X			PACK.	MATERIAL
400-650	370	•	•	•	1	10	1083076



SRW	L	X	X			PACK.	MATERIAL
600-1000	720	-111	•	1	2	10	1095173
900-1400	1120	-111	•	1	5	10	1095174
1401-1800	1520	-111	•	1	7	10	1095175

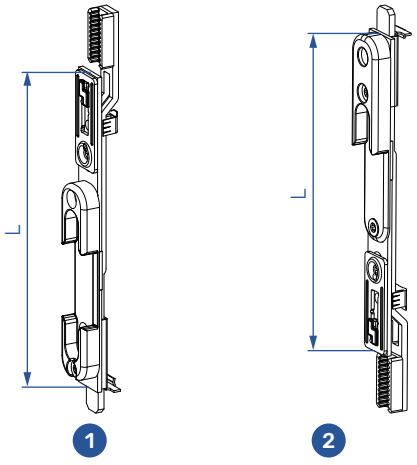
Lock bolt



TYPE	DESCRIPTION	L			X		PACK.	MATERIAL
1	TILT LOCK BOLT < 1000	140	1	•	•	3* (2)	100	1102388
	TILT LOCK BOLT > 1001	140	1	•	•	3* (2)	100	1102391
2	TILT LOCK BOLT 140	140	•	1	53,5	3* (2)	100	1102394
3	TILT LOCK BOLT 140/90	140	•	1	53,5	3* (2)	100	1102395
4	EXT.FR.WIN.ESPAGNO. - 11 - TOP	140	•	•	•	3* (2)	50	1103211

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

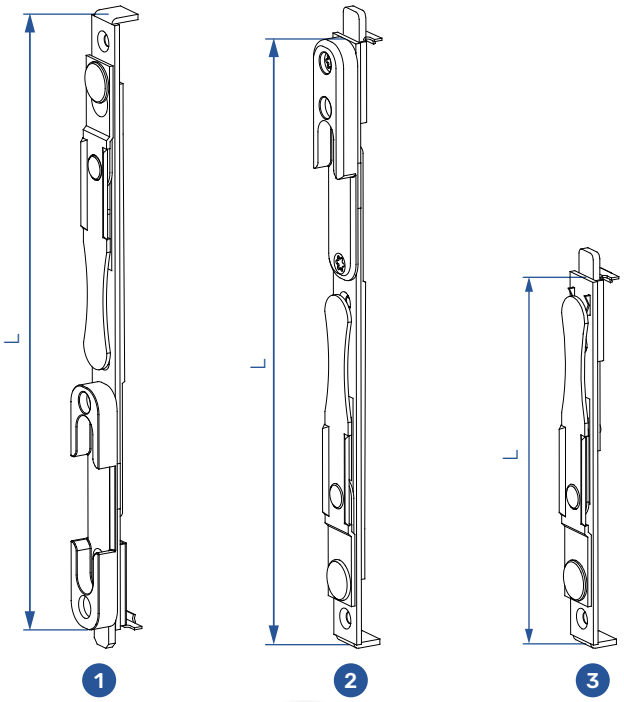
French window lock bolt



TYPE	DESCRIPTION	L		PACK.	MATERIAL
1	T&T EXT. FR. WIN. ESPAGNOLETTE M - 11 mm	140	3* (2)	50	1102621
2	EXT. FR. WIN. ESPAGNOLETTE - 11 mm - TOP	140	3* (2)	50	1110929

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

SHOOTBOLT - OHG



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

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

Affiliation by profiles

PROFILE	HINGE TYPE	PACKER
ALUPLAST 2000 / 3000	A	3 mm
ALUPLAST 4000 / 5000 / 6000 / 8000	A	5 mm
BRUGMANN BluEvolution	B	3 mm
GEALAN 7000/ 8000/ S9000	D	4 mm
PROFINE KBE 76/ 70AD	C	3 mm
PROFINE KÖMMERLING C70/ 76 MD	C	4 mm
PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	A	3 mm
REHAU Geneo/ Synego/ S706/ S730	A	4 mm
ROLOPLAST 7000/ 7500/ 7500 3D	C	4 mm
SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	A	3 mm
SELECTA Advance 70	C	4 mm
VEKA Matrix/ Softline/ Softline 82/ Topline	B	3 mm
WEISS WP3000/ WP4000/ WP5000	A	3 mm
WHS Halo System 10	A	5 mm

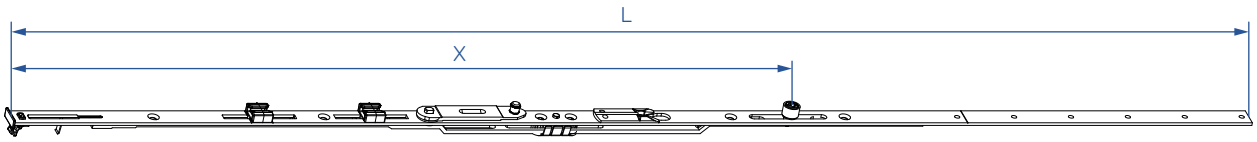
PROAL

* select hinges and packers according to the table

CONCEALED HINGE SIDE

Sash stay guide

Standard



SRW	L	X			PACK.	MATERIAL
380–610 [1]	170 / 470	•	•	3	10	1136634
611–810	170 / 670	•	•	4	10	1136635
811–1010	350 / 870	546	1	6	10	1136636
1011–1210	350 / 1070	607	1	7	10	1136637
1211–1400	500 / 1270	807	1	9	10	1136638

SRW	L	X			PACK.	MATERIAL
811–1010	350 / 870	546	1	6	10	1147277
1011–1210	350 / 1070	607	1	7	10	1147278
1211–1400	500 / 1270	807	1	9	10	1147279

Tilt first

SRW	L	X			PACK.	MATERIAL
380–610 [1]	170 / 470	•	•	3	10	1136158
611–810	170 / 670	•	•	4	10	1136159
811–1010	350 / 870	546	1	6	10	1136160
1011–1210	350 / 1070	607	1	7	10	1136161
1211–1400	500 / 1270	807	1	9	10	1136162

[1] SRW = 380 - 470 mm, WITH SHORT CORNER DRIVE

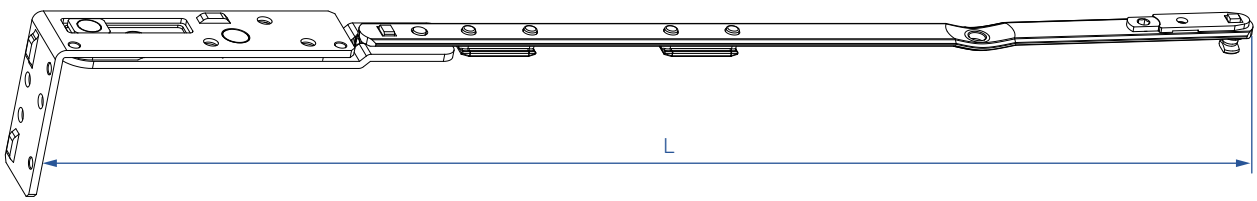
* SRH < 500 mm, move the anti-slam device to reduce the tilt

CONCEALED HINGE SIDE

Hinge side - UP

Stay arm

ONLY 12/20-13



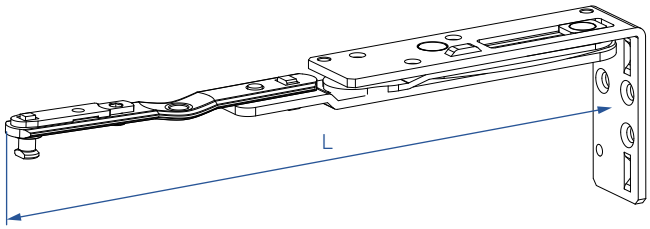
TYPE	SRW	L	POSITION		PACK.	TILT FIRST	TURN FIRST
A	380–810 [1]	170	L	6	10	1136152	1136871
	380–810 [1]	170	R	6	10	1136153	1136872
	811–1210	350	L	6	10	1136154	1136873
	811–1210	350	R	6	10	1136155	1136874
	1211–1400	500	L	6	10	1136156	1136875
	1211–1400	500	R	6	10	1136157	1136876
B	380–810 [1]	170	L	6	10	1136392	1136877
	380–810 [1]	170	R	6	10	1136393	1136878
	811–1210	350	L	6	10	1136394	1136879
	811–1210	350	R	6	10	1136395	1136880
	1211–1400	500	L	6	10	1136396	1136881
	1211–1400	500	R	6	10	1136397	1136882
C	380–810 [1]	170	L	6	10	1136398	1136883
	380–810 [1]	170	R	6	10	1136399	1136884
	811–1210	350	L	6	10	1136400	1136885
	811–1210	350	R	6	10	1136401	1136886
	1211–1400	500	L	6	10	1136402	1136887
	1211–1400	500	R	6	10	1136403	1136888
D	380–810 [1]	170	L	6	10	1136404	1136889
	380–810 [1]	170	R	6	10	1136405	1136890
	811–1210	350	L	6	10	1136406	1136891
	811–1210	350	R	6	10	1136407	1136892
	1211–1400	500	L	6	10	1136408	1136893
	1211–1400	500	R	6	10	1136409	1136894

[1] SRW = 380 - 470 mm, WITH SHORT CORNER DRIVE AND SASH STAY GUIDE 170 / 470

* select packer - page 127
* select type according to the table - page 122

Rebate stay arm

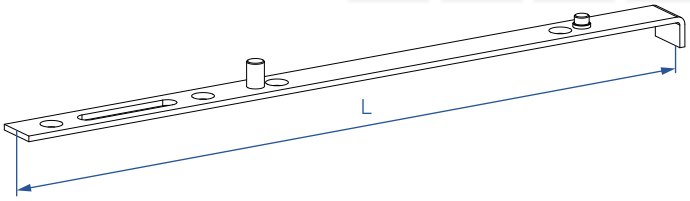
ONLY 12/20-13



TYPE	L	POSITION		PACK.	MATERIAL
A	250	L	6	10	1141493
	250	R	6	10	1141492
B	250	L	6	10	1141499
	250	R	6	10	1141494
C	250	L	6	10	1141502
	250	R	6	10	1141500
D	250	L	6	10	1141504
	250	R	6	10	1141503

Rebate stay arm guide

ONLY 12/20-13

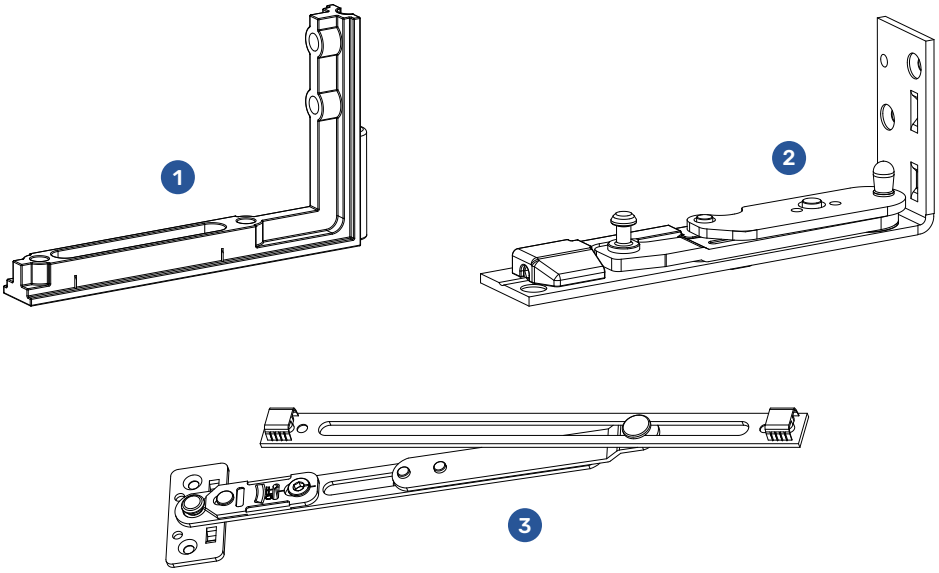


DESCRIPTION	L		PACK.	MATERIAL
REBATE STAY ARM GUIDE	260	4	10	1141516

* select packer - page 127
* select type according to the table - page 122

CONCEALED HINGE SIDE

Hinge side - DOWN



TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
1	CORNER HINGE	L / R	4	40	1136163

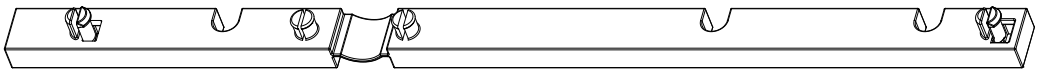
TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
2	CORNER PIVOT A	L	5	50	1136164
		R	5	50	1136165
	CORNER PIVOT B	L	5	50	1136410
		R	5	50	1136411
	CORNER PIVOT C	L	5	50	1136412
		R	5	50	1136413
	CORNER PIVOT D	L	5	50	1136414
		R	5	50	1136415

TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
3*	SASH TURN LIMITER	L / R	4	100	1136166

* SRW 650 < Sash turn limiter

* select corner pivot and sash turn limiter packer - page 127
* select corner pivot type according to the table - page 122

Stay arm



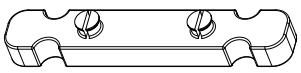
PACKER	POS.	MATERIAL
STAY ARM 3 mm	R	1136676
	L	1136677
STAY ARM 4 mm	R	1136674
	L	1136675
STAY ARM 5 mm	R	1135662
	L	1135663

Corner pivot



PACKER	POS.	MATERIAL
CORNER PIVOT REST 3 mm	R	1136683
	L	1136682
CORNER PIVOT REST 4 mm	R	1136679
	L	1136678
CORNER PIVOT REST 5 mm	R	1135665
	L	1135664

Turn limiter

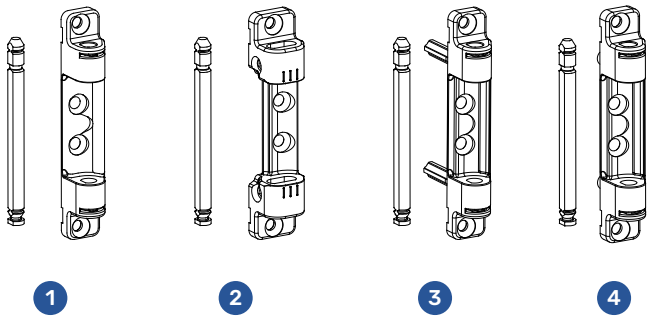


PACKER	POS.	MATERIAL
TURN LIMITER 3 mm	L / R	1136685
TURN LIMITER 4 mm	L / R	1136684
TURN LIMITER 5 mm	L / R	1135667

* select packer according to the table - page 122

FACE-FIT HINGE SIDE

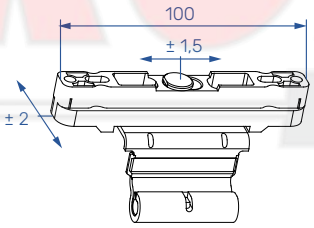
Hinge side - UP



TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
1	SASH STAY BEARING K3	L / R	4	100	1083250
2	SASH STAY BEARING K3 - adjustable	L / R	4	100	1103601
3	SASH STAY BEARING K6	L / R	4	100	1105598
4	SASH STAY BEARING K6 - SHORT PIN	L / R	4	100	1148784

FACE-FIT HINGE SIDE

Hinge side - BOTTOM / SIDE



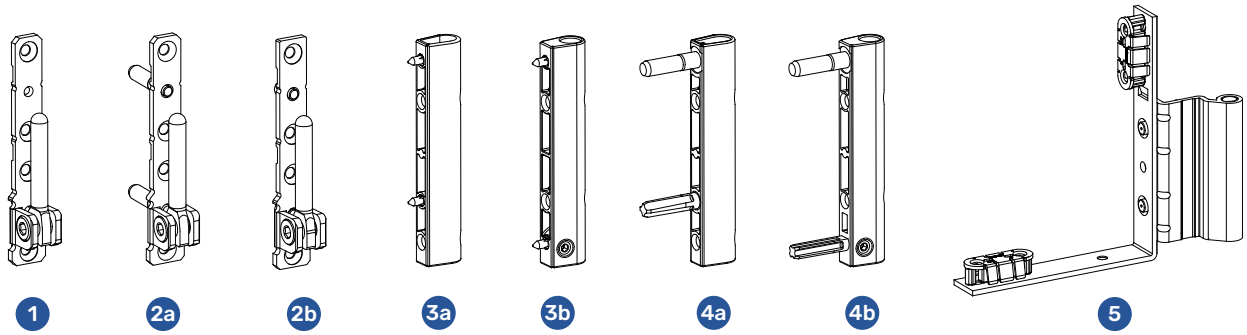
DESCRIPTION	POS.		PACK.	MATERIAL
REBATE CENTER HINGE 12/18-9 - adjustable	L / R	4	50	1104760
REBATE CENTER HINGE 12/18-13 - adjustable	L / R	4	50	1104762
REBATE CENTER HINGE 12/20-9 - adjustable	L / R	4	50	1083269
REBATE CENTER HINGE 12/20-13 - adjustable	L / R	4	50	1083268
REBATE CENTER HINGE 12/22-13 - adjustable	L / R	4	50	1083270

NUMBER OF REBATE CENTER HINGES ACCORDING TO SASH REBATE WIDTH

TILT ONLY WINDOW - SRW	NR. OF HINGES
< 1200	2
1201 - 2200	3
2201 - 2400	4

FACE-FIT HINGE SIDE

Hinge side - DOWN

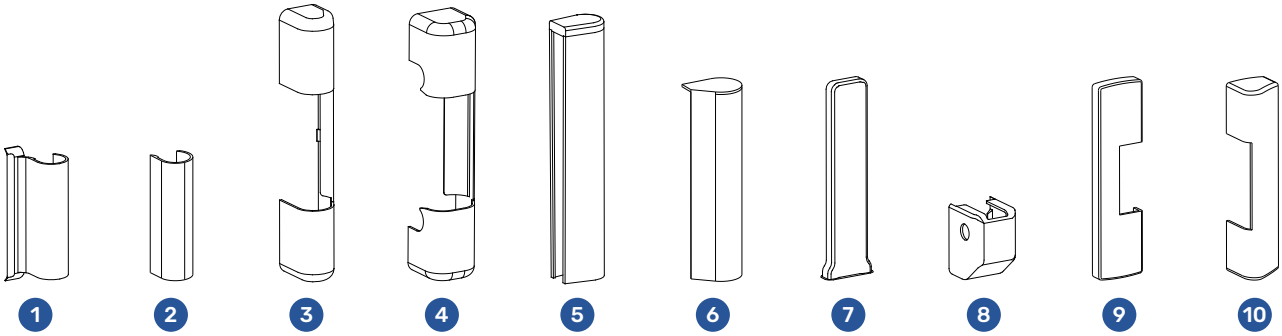


TYPE		DESCRIPTION	POS.		PACK.	MATERIAL
1		CORNER PIVOT REST K3	L / R	4	200	1083247
2	a	CORNER PIVOT REST K6	L / R	4	150	1105596
	b	CORNER PIVOT REST K6 - SHORT PIN	L / R	4	200	1148787

TYPE		DESCRIPTION	POS.		PACK.	MATERIAL
3	a	CORNER HINGE K3	L / R	2	200	1083241
	b	CORNER HINGE K3 - adjustable	L / R	2	200	1083243
4	a	CORNER HINGE K6	L / R	2	200	1083242
	b	CORNER HINGE K6 - adjustable	L / R	2	200	1083244

TYPE	DESCRIPTION	POS.		PACK.	MATERIAL
5	REBATE CORNER HINGE 12/18-9	L	6	40	1101236
		R	6	40	1101237
	REBATE CORNER HINGE 12/18-13	L	6	40	1101242
		R	6	40	1101243
	REBATE CORNER HINGE 12/20-9	L	6	40	1101239
		R	6	40	1101241
	REBATE CORNER HINGE 12/20-13	L	6	40	1101244
		R	6	40	1101245
	REBATE CORNER HINGE 12/22-13	L	6	40	1105922
		R	6	40	1105923

COVER CAPS



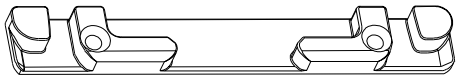
TYPE	DESCRIPTION	RAL	POS.	PACK.	MATERIAL
1	COVER CAP STAY ARM	RAL9016 - White		400	1127415
		RAL8019 - Greybrown		400	1127416
		RAL9005 - Black		400	1127417
		RAL9001 - Cream White		400	1127418
		RAL7016 - Anthracite grey		400	1134364
		SILVER		400	1127425
		DARK BRONZE		400	1127424
		TITANmat		400	1127423
		GOLDmat		400	1135425
2	COVER CAP STAY ARM 2	RAL9016 - White		500	1127419
		RAL8019 - Greybrown		500	1127420
		RAL9005 - Black		500	1127421
		RAL9001 - Cream White		500	1127422
		RAL 7016 - Anthracite grey		500	1141060
		SILVER		500	1127430
		DARK BRONZE		500	1127428
		TITANmat		500	1127429
		GOLDmat		500	1141059
3	COVER CAP STAY BEARING	RAL9016 - White		100	1127402
		RAL8019 - Greybrown		100	1127403
		RAL9005 - Black		100	1127404
		RAL9001 - Cream White		100	1127405
		RAL7016 - Anthracite grey		100	1134361
		SILVER		100	1127412
		DARK BRONZE		100	1127410
		TITANmat		100	1127411
		GOLDmat		100	1135423
4	COVER CAP FOR ADJUSTABLE STAY BEARING	RAL9016 - White		200	1127406
		RAL8019 - Greybrown		200	1127407
		RAL9005 - Black		200	1127408
		RAL7016 - Anthracite grey		200	1134363
		SILVER		200	1127414
		GOLDmat		200	1135424
5	COVER CAP CORNER HINGE	RAL9016 - White		100	1127378
		RAL8019 - Greybrown		100	1127379
		RAL9005 - Black		100	1127380
		RAL9001 - Cream White		100	1127381
		RAL7016 - Anthracite grey		100	1134357
		SILVER		100	1127383
		DARK BRONZE		100	1127385
		TITANmat		100	1127382
		GOLDmat		100	1135420

COVER CAPS

6	COVER CAP REBATE CORNER HINGE	RAL9016 - White	L	200	1127493
			R	200	1127498
		RAL8019 - Greybrown	L	200	1127494
			R	200	1127499
		RAL9005 - Black	L	200	1127495
			R	200	1127500
		RAL9001 - Cream White	L	200	1127497
			R	200	1127502
		RAL7016 - Anthracite grey	L	200	1134365
			R	200	1134366
		SILVER	L	200	1127496
			R	200	1127501
		DARK BRONZE	L	200	1127505
			R	200	1127506
		TITANmat	L	200	1127504
			R	200	1127508
		GOLDmat	L	200	1135426
			R	200	1135427
7	COVER CAP CORNER PIVOT REST - flat	RAL9016 - White		500	1127390
		RAL8019 - Greybrown		500	1127391
		RAL9005 - Black		500	1127392
		RAL9001 - Cream White		500	1127393
		RAL7016 - Anthracite grey		500	1134359
		SILVER		500	1127400
		DARK BRONZE		500	1127398
		TITANmat		500	1127399
		GOLDmat		500	1135422
8	COVER CAP CORNER PIVOT REST	RAL9016 - White		300	1127386
		RAL8019 - Greybrown		300	1127387
		RAL9005 - Black		300	1127388
		RAL9001 - Cream White		300	1127389
		RAL7016 - Anthracite grey		300	1134358
		SILVER		300	1127394
		DARK BRONZE		300	1127395
		TITANmat		300	1127397
		GOLDmat		300	1135421
9	COVER CAP CENTER STRIKER - sash	RAL9016 - White		500	1127433
		RAL8019 - Greybrown		500	1127434
		SILVER		500	1127438
10	COVER CAP CENTER STRIKER - frame	RAL9016 - White		250	1127431
		RAL8019 - Greybrown		250	1127432
		SILVER		250	1127435

* COVER CAPS "**RAL**" ARE **INJECTED**
* COVER CAPS "**COLOR**" ARE **COLORED**

T&T STRIKER

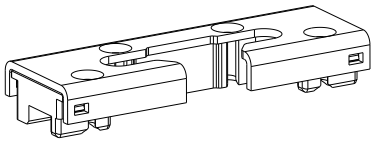


System 12/20-13

T&T STRIKER	PACK.	MATERIAL
ALPHACAN In Alpha/ 70	250	1083186
ALUPLAST 2000/ 3000/ 4000/ 5000/ 6000/ 8000	250	1083185
BRUGMANN BluEvolution	250	1083183
DECEUNINCK 2500/ 2800	250	1083187
EUROCELL Modus	250	1083186
GEALAN 7000/ 8000/ S9000	250	1083186
INOUTIC Prestige/ Arcade	250	1083187
INOUTIC Elegante	250	1131424
LINIAR	250	1097947
PESTAN S509	250	1083186
PIMAPEN Carisma S-7000	250	1131424
PROFINE KBE 76/ 70AD	250	1083186
PROFINE KÖMMERLING Eurofutur Classic/ Elegance/ 88 Plus/ C70/ 76 MD	250	1083186
PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	250	1083186
REHAU Geneo/ Synego/ S706/ S730/ System 4500/ Brilliant	250	1083185
ROLOPLAST 7000/ 7500/ 7500 3D	250	1083185
ROPLASTO 7001 AD	250	1083185
SALAMANDER 3D/ Streamline 76	250	1083185
SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	250	1083185
SELECTA Advance 70	250	1083186
VEKA Matrix/ Softline/ Softline 82/ Topline	250	1083183
VUJIC 7000/ 8000	250	1097947
WEISS WP3000/ WP4000/ WP5000	250	1083185
WHS Halo System 10	250	1083185

System 12/20-9

T&T STRIKER	PACK.	MATERIAL
PROFINE KBE AD9	250	1083189



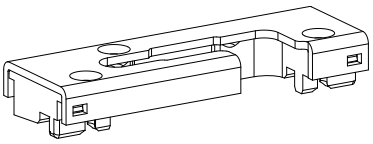
System 12/20-13

T&TI STRIKER	POS.	PACK.	MATERIAL
ALUPLAST 2000/ 3000	R L	100	1132249 1132250
ALUPLAST 4000/ 5000/ 6000/ 8000	R L	100	1132233 1132234
BRUGMANN BluEvolution	R L	100	1132249 1132250
DECEUNINCK 2500/ 2800	R L	100	1135570 1135571
EUROCELL Modus	R L	100	1132235 1132236
GEALAN 7000/ 8000 /S9000	R L	100	1132235 1132236
INOUTIC Prestige/ Arcade	R L	100	1132245 1132246
INOUTIC Elegante	R L	100	1135570 1135571
LINIAR	R L	100	1132249 1132250
PIMAPEN Carisma S-7000	R L	100	1135570 1135571
PROFINE KBE 76/ 70AD	R L	100	1132235 1132236
PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus	R L	100	1132239 1132240
PROFINE KÖMMERLING C70/ 76 MD	R L	100	1132235 1132236
PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	R L	100	1132235 1132236
REHAU S706/ S730/ System 4500/ Brilliant	R L	100	1132241 1132242
REHAU Geneo/ Synego	R L	100	1139277 1139278
ROLOPLAST 7000/ 7500/ 7500 3D	R L	100	1132243 1132244
SALAMANDER 3D/ Streamline 76	R L	100	1132243 1132244
SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	R L	100	1132249 1132250
SELECTA Advance 70	R L	100	1132235 1132236
VEKA Matrix/ Softline/ Softline 82/ Topline	R L	100	1132249 1132250
WEISS WP3000/ WP4000/ WP5000	R L	100	1132249 1132250
WHS Halo System 10	R L	100	1132233 1132234
ALU TRESHOLD 22 mm	L / R	100	1116153

System 12/20-9

T&TI STRIKER	PACK.	MATERIAL
PROFINE KBE AD9	100	1083193

T&TI STRIKER - TILT FIRST

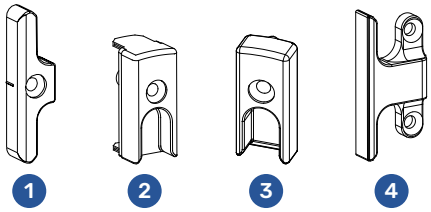


System 12/20-13

T&TI STRIKER - TILT FIRST	POS.	PACK.	MATERIAL
ALUPLAST 2000 / 3000	L R	100	1107730 1107729
ALUPLAST 4000 / 5000/ 6000 / 8000	L R	100	1107728 1107727
BRUGMANN BluEvolution	L R	100	1107732 1107731
EUROCELL Modus	L R	100	1107667 1107666
LINIAR	L R	100	1107732 1107731
PROFINE KBE 70AD	L R	100	1107667 1107666
PROFINE KÖMMERLING C70/ 76 MD	L R	100	1107667 1107666
REHAU S706/ S730/ System 4500/ Brilliant	L R	100	1083817 1083816
SELECTA Advance 70	L R	100	1107667 1107666
VEKA Matrix/ Softline/ Softline 82/ Topline	L R	100	1107730 1107729
WHS Halo System 10	L R	100	1107728 1107727

PRO ALU

STRIKER



System 12/20-13

TYPE	STRIKER	PACK.	MATERIAL
1	ALPHACAN In Alpha/ 70	300	1083205
	ALUPLAST 2000/ 3000/ 4000/ 5000/ 6000/ 8000	300	1083204
	BRUGMANN BluEvolution	300	1083202
	DECEUNINCK 2500/ 2800	300	1131423
	EUROCELL Modus	300	1107664
	GEALAN 7000/ 8000 /S9000	300	1083203
	INOUTIC Prestige/ Arcade	300	1083206
	INOUTIC Elegante	300	1131423
	LINIAR	300	1097948
	PIMAPEN Carisma S-7000	300	1131423
	PESTAN S509	300	1083205
	PROFINE KBE 76/ 70AD	300	1083205
	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	300	1083205
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	300	1083205
	REHAU Geneo/ Synego/ S706/ S730/ System 4500/ Brilliant	300	1083204
	ROLOPLAST 7000/ 7500/ 7500 3D	300	1083204
	ROPLASTO 7001 AD	300	1083204
	SALAMANDER 3D/ Streamline 76	300	1083204
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	300	1083204
	SELECTA Advance 70	300	1083205
	VEKA Matrix/ Softline/ Softline 82/ Topline	300	1083202
	VUJIC 7000/8000	300	1097948
	WEISS WP3000/ WP4000/ WP5000	300	1083204
	WHS Halo System 10	300	1083204

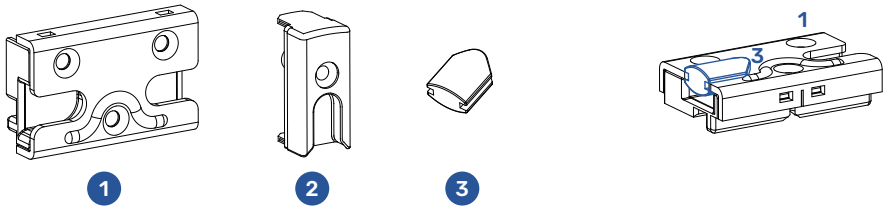
System 12/20-9

TYPE	STRIKER	PACK.	MATERIAL
1	3/4 mm	300	1083209
	PROFINE KBE AD9	300	1083208

System independent

TYPE	SYSTEM INDEPENDENT STRIKERS	PACK.	MATERIAL
2	STRIKER OHG	300	1083207
3	FRENCH WINDOW ESPAGNOLETTE - ADDITIONAL STRIKER	300	1100213
4	FRENCH WINDOW ESPAGNOLETTE M - ADDITIONAL STRIKER	100	1155047

SECURITY STRIKER



System 12/20-13

TYPE	SECURITY STRIKER	PACK.	MATERIAL
	ALUPLAST 2000/ 3000	100	1083219
	ALUPLAST 4000/ 5000/ 6000/ 8000	100	1083216
	BRUGMANN BluEvolution	100	1083214
	DECEUNINCK 2500/ 2800	100	1135572
	EUROCELL Modus	100	1083217
	GEALAN 7000/ 8000/ S9000	100	1083217
	INOUTIC Prestige/ Arcade	100	1083218
	INOUTIC Elegante	100	1135572
	LINIAR	100	1083214
	PIMAPEN Carisma S-7000	100	1135572
1	PROFINE KBE 76/ 70AD	100	1083217
	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus	100	1098310
	PROFINE KÖMMERLING C70/ 76 MD	100	1083217
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	100	1083217
	REHAU S706/ S730/ System 4500/ Brilliant	100	1089625
	REHAU Geneo/ Synego	100	1139279
	ROLOPLAST 7000/ 7500/ 7500 3D	100	1098609
	SALAMANDER 3D/ Streamline 76	100	1098609
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	100	1083219
	SELECTA Advance 70	100	1083217
	VEKA Matrix/ Softline/ Softline 82/ Topline	100	1083214
	WEISS WP3000/ WP4000/ WP5000	100	1083219
	WHS Halo System 10	100	1083216

System 12/20-9

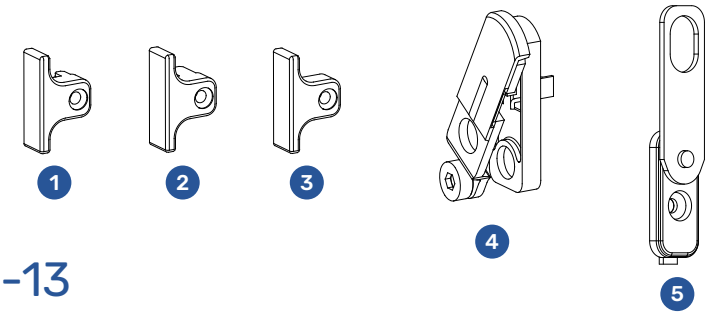
TYPE	SECURITY STRIKER	PACK.	MATERIAL
1	PROFINE KBE AD9	100	1083220

System independent

TYPE	SYSTEM INDEPENDENT SECURITY STRIKER	PACK.	MATERIAL
2	SECURITY STRIKER OHG	100	1066042
3	GROOVE SPACER 12 mm for RC 1	500	1127521

* INSTALL GROOVE SPACER IN EVERY FREE SLOT ON SECURITY STRIKER (OPPOSITE OF THE LOCKING POINT). GROOVE SPACER IS NECESSARY FOR RC 1 SCHEME.

MISHANDLING DEVICE



System 12/20-13

TYPE	MISHANDLING DEVICE - FRAME	PACK.	MATERIAL
	ALPHACAN In Alpha/ 70	300	1099867
	ALUPLAST 2000/ 3000	300	1083291
	ALUPLAST 4000/ 5000/ 6000/ 8000	300	1083288
	BRUGMANN BluEvolution	300	1083286
	DECEUNINCK 2500/ 2800	300	1135573
	EUROCELL Modus	300	1107665
	GEALAN 7000/ 8000/ S9000	300	1083289
	INOUTIC Prestige/ Arcade	300	1083290
	INOUTIC Elegante	300	1135573
	LINIAR	300	1098126
	PIMAPEN Carisma S-7000	300	1135573
	PROFINE KBE 76/ 70AD	300	1083289
1	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	300	1083289
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	300	1083289
	REHAU S706/ S730/ System 4500/ Brilliant	300	1083287
	REHAU Geneo/ Synego	300	1083289
	ROLOPLAST 7000/ 7500/ 7500 3D	300	1098610
	ROPLASTO 7001 AD	300	1083286
	SALAMANDER 3D/ Streamline 76	300	1098610
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	300	1083291
	SELECTA Advance 70	300	1083289
	VEKA Matrix/ Softline/ Softline 82/ Topline	300	1083286
	VUJIC 7000/8000	300	1098126
	WEISS WP3000/ WP4000/ WP5000	300	1083291
	WHS Halo System 10	300	1083288

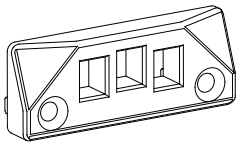
System 12/20-9

TYPE	MISHANDLING DEVICE - FRAME	PACK.	MATERIAL
1	PROFINE KBE AD9	300	1083292

System independent

TYPE	SYSTEM INDEPENDENT MISHANDLING DEVICE	PACK.	MATERIAL
2	MISHANDLING DEVICE - FRAME - OHG	300	1083293
3	MISHANDLING DEVICE - FRAME - ESPAGNOLETTE OHG	300	1083295
4	MISHANDLING DEVICE - SASH	200	1093907
5	TURN LIMITER - TILT FIRST	200	1155476

STRIKER - SECOND SASH



System 12/20-13

SECOND SASH STRIKER	PACK.	MATERIAL
ALPHACAN In Alpha/ 70	300	1083227
ALUPLAST 2000/ 3000/ 4000/ 5000/ 6000/ 8000	300	1083226
BRUGMANN BluEvolution	300	1083224
DECEUNINCK 2500/ 2800	300	1131425
EUROCELL Modus	300	1083227
GEALAN 7000/ 8000/ S9000	300	1083227
INOUTIC Prestige/ Arcade	300	1083228
INOUTIC Elegante	300	1131425
LINIAR	300	1097949
PESTAN S509	300	1083227
PIMAPEN Carisma S-7000	300	1131425
PROFINE KBE 76/ 70AD	300	1083227
PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	300	1083227
PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	300	1083227
REHAU Geneo/ Synego/ S706/ S730/ System 4500/ Brilliant	300	1083226
ROLOPLAST 7000/ 7500/ 7500 3D	300	1083226
ROPLASTO 7001 AD	300	1083226
SALAMANDER 3D/ Streamline 76	300	1083226
SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	300	1083226
SELECTA Advance 70	300	1083227
VEKA Matrix/ Softline/ Softline 82/ Topline	300	1083224
VUJIC 7000/8000	250	1097949
WEISS WP3000/ WP4000/ WP5000	300	1083226
WHS Halo System 10	300	1083226

System 12/20-9

SECOND SASH STRIKER	PACK.	MATERIAL
PROFINE KBE AD9	100	1083230

NIGHT VENT STRIKER - R OR RS CAM



System 12/20-13

TYPE	STRIKER	PACK.	MATERIAL
1	ALPHACAN In Alpha/ 70	100	1112468
	ALUPLAST 4000/ 5000/ 6000/ 8000	100	1112468
	BRUGMANN BluEvolution	100	1112468
	EUROCELL Modus	100	1112468
	GEALAN 7000/ 8000 /S9000	100	1112468
	INOUTIC Prestige/ Arcade	100	1095741
	INOUTIC Elegante	100	1112468
	LINIAR	100	1112468
	PROFINE KBE 76/ 70AD	100	1112468
	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	100	1112468
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	100	1112468
	REHAU Geneo/ Synego/ S706/ S730/ System 4500/ Brilliant	100	1112468
	ROLOPLAST 7000/ 7500/ 7500 3D	100	1112468
	ROPLASTO 7001 AD	100	1112468
	SALAMANDER 3D/ Streamline 76	100	1112468
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	100	1112468
	SELECTA Advance 70	100	1112468
	VUJIC 7000/8000	100	1112468
	WEISS WP3000/ WP4000/ WP5000	100	1112468
	WHS Halo System 10	100	1112468

System 12/20-9

NIGHT VENT STRIKER - for locking cam	PACK.	MATERIAL
PROFINE KBE AD9	100	1095293

NIGHT VENT STRIKER - R OR RS CAM

NIGHT VENT STRIKER - CORNER DRIVE NV



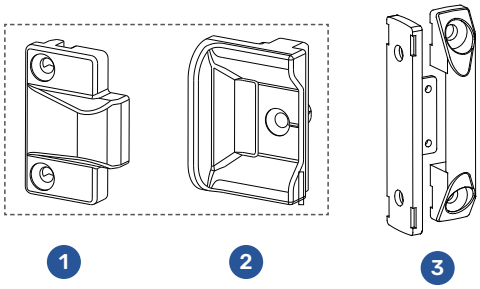
System 12/20-13

TYPE	MISHANDLING DEVICE - FRAME	PACK.	MATERIAL
1	ALPHACAN In Alpha/ 70	300	1083236
	ALUPLAST 2000/ 3000	300	1083236
	ALUPLAST 4000/ 5000/ 6000/ 8000	300	1083236
	BRUGMANN BluEvolution	300	1083236
	DECEUNINCK 2500/ 2800	300	1083236
	EUROCELL Modus	300	1083236
	GEALAN 7000/ 8000/ S9000	300	1083236
	INOUTIC Prestige	300	1083238
	INOUTIC Elegante	300	1083236
	LINIAR	300	1083236
	PROFINE KBE 76/ 70AD	300	1083236
	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	300	1083236
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	300	1083236
	REHAU S706/ S730/ System 4500/ Brilliant	300	1083236
	REHAU Geneo/ Synego	300	1083236
	ROLOPLAST 7000/ 7500/ 7500 3D	300	1083236
	ROPLASTO 7001 AD	300	1083236
	SALAMANDER 3D/ Streamline 76	300	1083236
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	300	1083236
	SELECTA Advance 70	300	1083236
	VEKA Matrix/ Softline/ Softline 82/ Topline	300	1083236
	VUJIC 7000/8000	300	1083236
	WEISS WP3000/ WP4000/ WP5000	300	1083236
	WHS Halo System 10	300	1083236

System 12/20-9

NIGHT VENT STRIKER - for corner drive with NV	PACK.	MATERIAL
PROFINE KBE AD9	300	1083236

CENTER STRIKER CLOSER



NUMBER OF STRIKERS
ACCORDING TO SASH REBATE HEIGHT

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

System 12/20-13

TYPE	CONCEALED STRIKER CLOSER - FRAME	PACK.	MATERIAL
	ALPHACAN In Alpha/ 70	250	1127516
	ALUPLAST 2000/ 3000	250	1127938
	ALUPLAST 4000/ 5000/ 6000/ 8000	250	1127510
	BRUGMANN BluEvolution	300	1127937
	DECEUNINCK 2500/ 2800	300	1131426
	EUROCELL Modus	250	1127516
	GEALAN 7000/ 8000/ S9000	250	1127516
	INOUTIC Prestige/ Arcade	300	1127517
	INOUTIC Elegante	250	1131426
	PESTAN S509	300	1096401
	PIMAPEN Carisma S-7000	250	1131426
1	PROFINE KBE 76/ 70AD	250	1127516
	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	250	1127516
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	250	1127516
	REHAU Geneo/ Synego/ S706/ S730/ System 4500/ Brilliant	250	1127512
	ROLOPLAST 7000/ 7500/ 7500 3D	250	1098611
	ROPLASTO 7001 AD	250	1127512
	SALAMANDER 3D/ Streamline 76	250	1098611
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	250	1127938
	SELECTA Advance 70	250	1127516
	VEKA Matrix/ Softline/ Softline 82/ Topline	300	1127937
	WEISS WP3000/ WP4000/ WP5000	250	1127938
	WHS Halo System 10	250	1127510

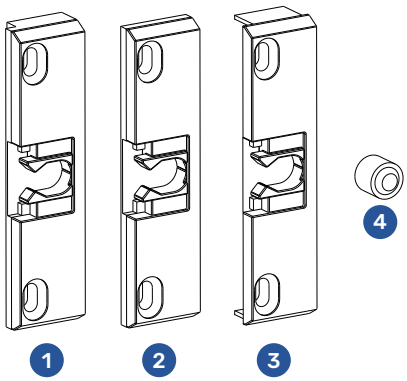
System 12/20-9

TYPE	CONCEALED STRIKER CLOSER - FRAME	PACK.	MATERIAL
1	PROFINE KBE AD9	300	1127518

System independent

TYPE	SYSTEM INDEPENDENT CENTER STRIKER CLOSER	PACK.	MATERIAL
2	CONCEALED STRIKER CLOSER - SASH PART	200	1127509
3	CENTER STRIKER - SASH AND FRAME PART	200	1083304

BULLET CATCH



System 12/20-13

TYPE	BULLET CATCH - FRAME	PACK.	MATERIAL
	ALPHACAN In Alpha/ 70	100	1099868
	ALUPLAST 2000/ 3000	100	1083311
	ALUPLAST 4000/ 5000/ 6000/ 8000	100	1083308
	BRUGMANN BluEvolution	100	1083309
	DECEUNINCK 2500/ 2800	100	1135574
	EUROCELL Modus	100	1083309
	GEALAN 7000/ 8000/ S9000	100	1083309
	INOUTIC Prestige/ Arcade	100	1083312
	INOUTIC Elegante	100	1135574
	PIMAPEN Carisma S-7000	100	1135574
1	PROFINE KBE 76/ 70AD	100	1083309
	PROFINE KÖMMERLING Eurofutur Clasic/ Elegance/ 88 Plus/ C70/ 76 MD	100	1083309
	PROFINE TROCAL 70.A5 AD/ 70.M5 MD/ 76 AD/ 76 MD	100	1083309
	REHAU Geneo/ Synego/ S706/ S730/ System 4500/ Brilliant	100	1083307
	ROLOPLAST 7000/ 7500/ 7500 3D	100	1098612
	SALAMANDER 3D/ Streamline 76	100	1098612
	SCHÜCO Corona AD/ CT70 AD/ CT70 MD/ S182 MD	100	1083311
	SELECTA Advance 70	100	1083309
	VEKA Matrix/ Softline/ Softline 82/ Topline	100	1083306
	WEISS WP3000/ WP4000/ WP5000	100	1083311
	WHS Halo System 10	100	1083308

System 12/20-9

TYPE	BULLET CATCH - FRAME	PACK.	MATERIAL
1	PROFINE KBE AD9	100	1093915

System independent

TYPE	SYSTEM INDEPENDENT BULLET CATCH	PACK.	MATERIAL
2	BULLET CATCH - FRAME - ESPAGNOLETTE OHG	100	1093200
3	BULLET CATCH - FRAME - OHG	100	1107887
4	BULLET CATCH CAM - SASH PART	2000	1083305



ARX handles

Handles for windows
Detailed information

HANDLES

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

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

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

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

With ARX Handles set for balcony doors, a uniform apperance 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

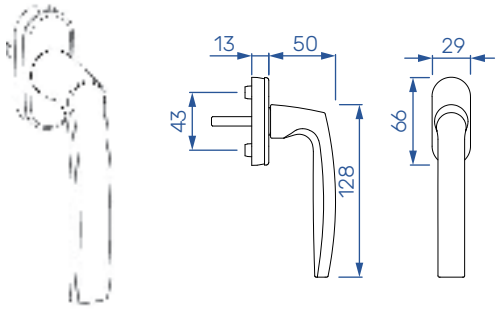


ARX handles are made of quality material (aluminium) and protected by persistent surface protection of powder coating in different colors. Quality materials, modern manufacturing processes and product testing have led ARX handles to have a long lifetime and a 10 year warranty.

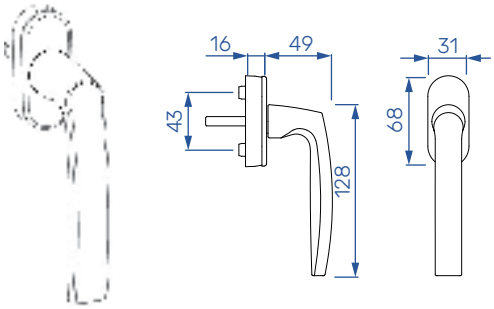


ARX handles have a quality certificate, the German Quality Assurance Institute. We are convinced that our products and services will continue to be a good guarantee for our future long-standing partnership and we look forward to further cooperation with you.

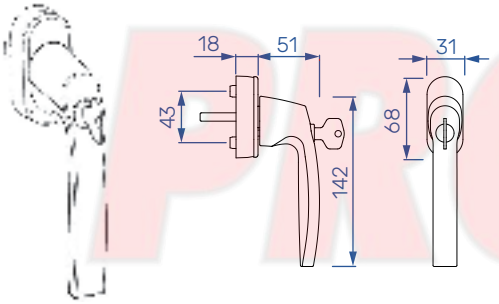
Window handles



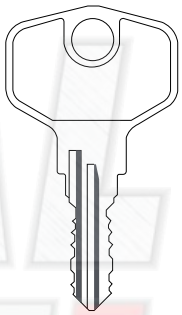
1



2



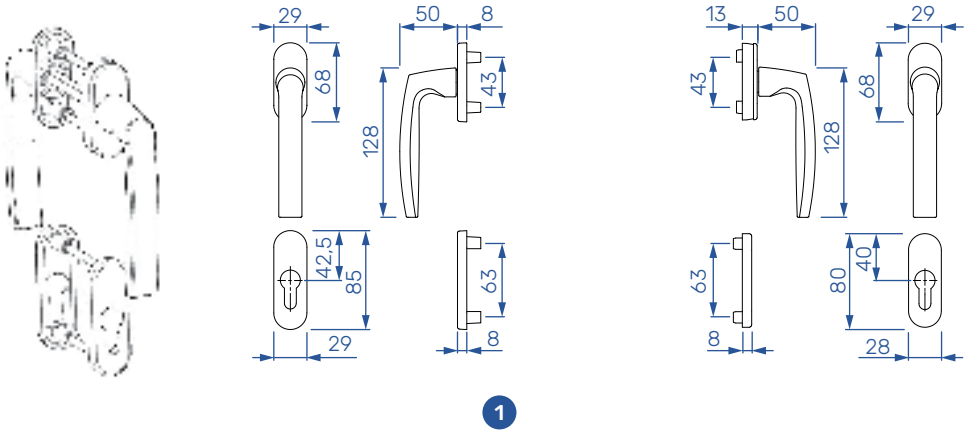
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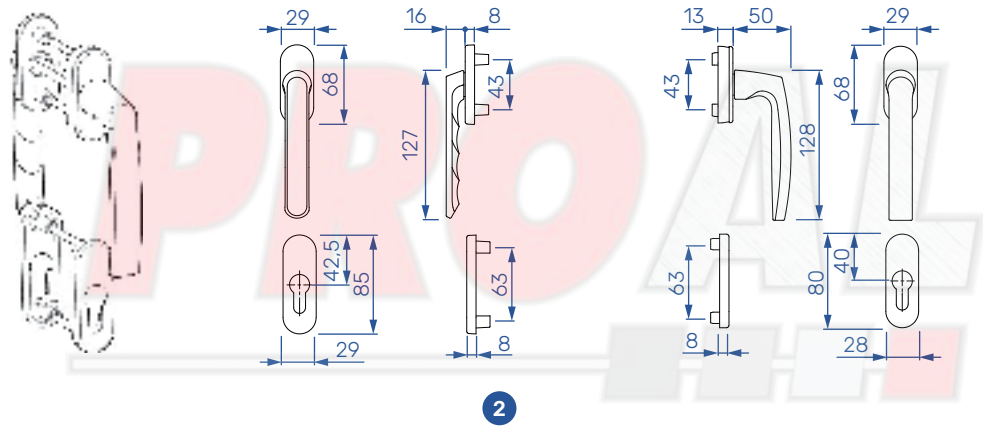
4

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

Balcony door handles



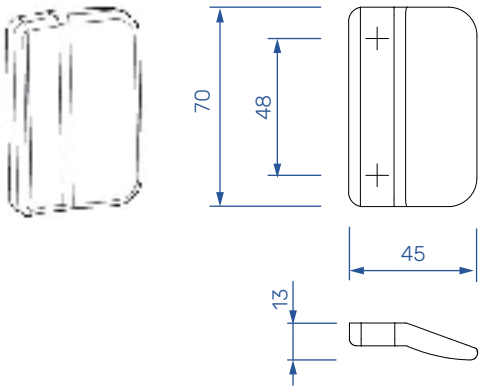
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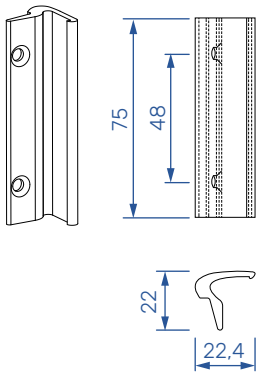
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TYPE	DESCRIPTION	COLOR	PACK	MATERIAL
1	BALCONY DOOR HANDLE	F1 - silver	10	1053267
		F4 - dark bronze	10	1053268
		F9 - titan	10	1053269
		RAL 9010 - white	10	1053270
2	BALCONY DOOR HANDLE - ROLLER SHUTTERS	F1 - silver	10	1053281
		F4 - dark bronze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

Balcony door handles - basic



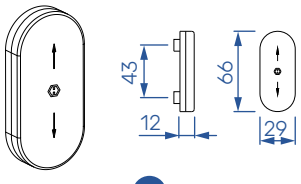
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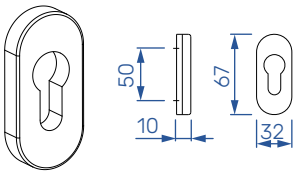
2

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

Rosette



1



2

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

PROAL

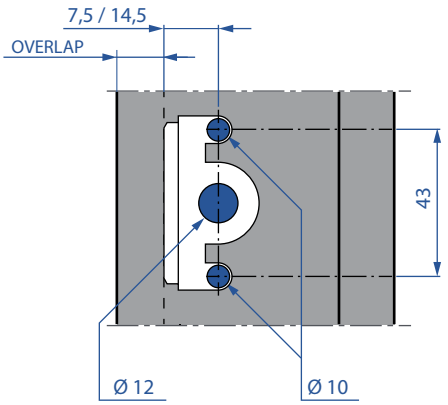


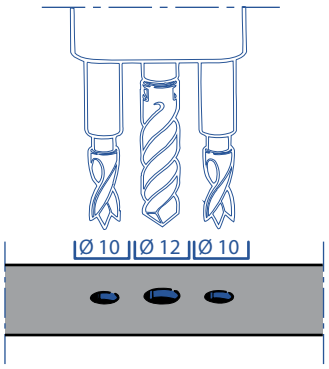
Installation instructions

Profile treatment, hardware mounting, hardware maintenance
Detailed information

Window-handle drilling

GEAR-CASE SPROCKET AND LUGS´ DRILL HOLE



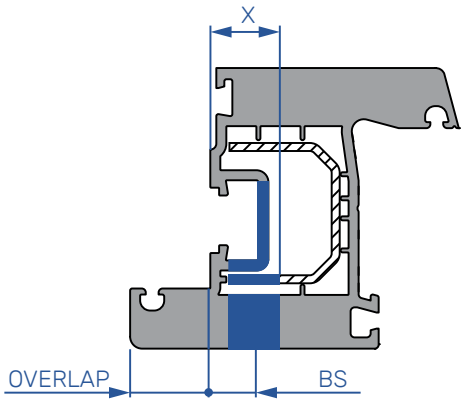


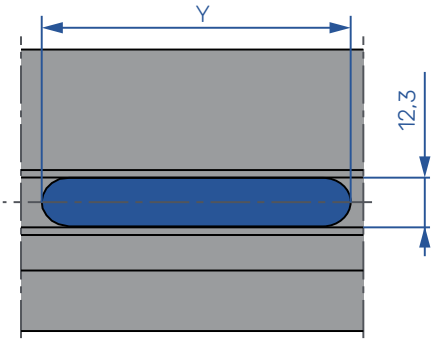
Gear-case routing

ESPAGNOLETTE GEAR-CASING



min. routing depth



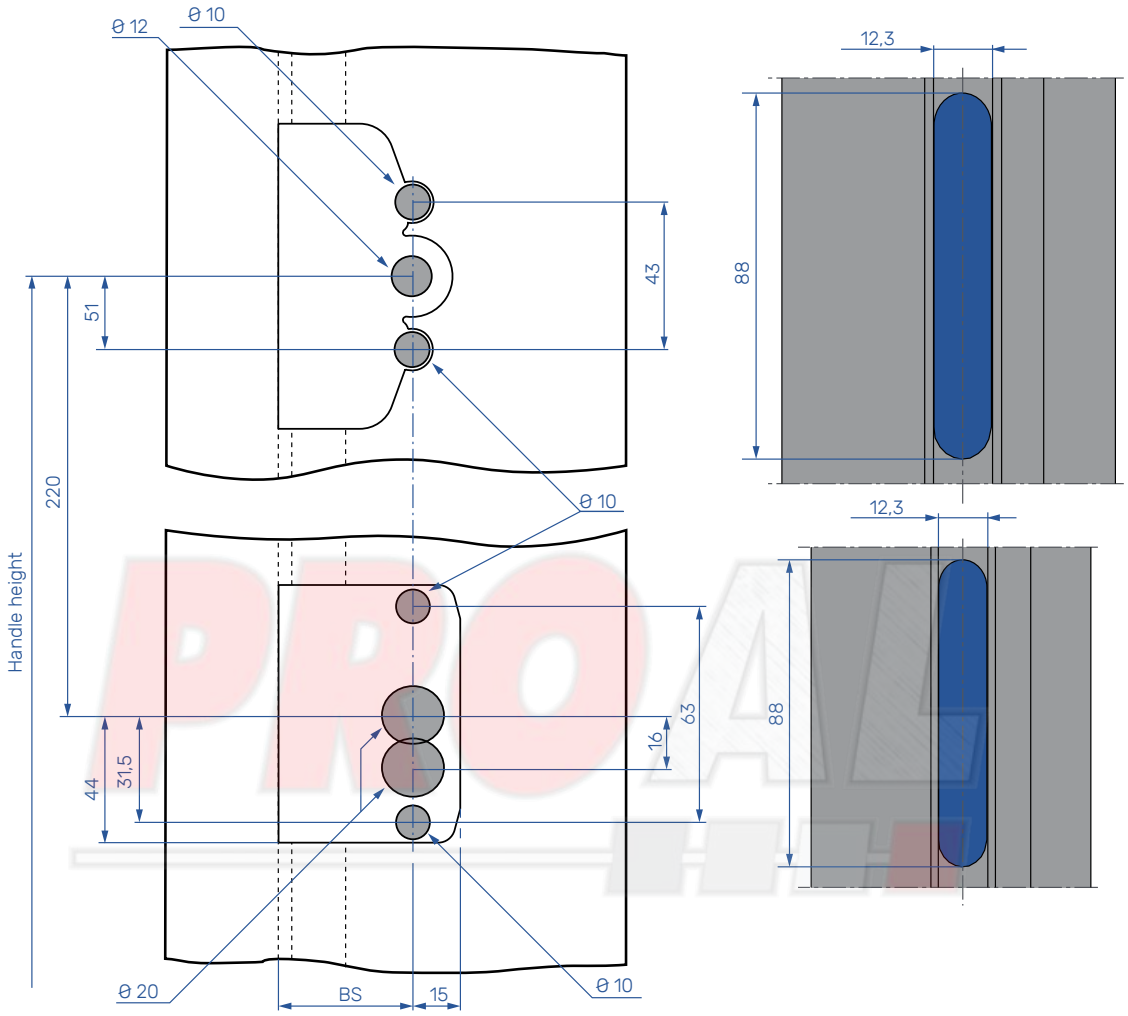


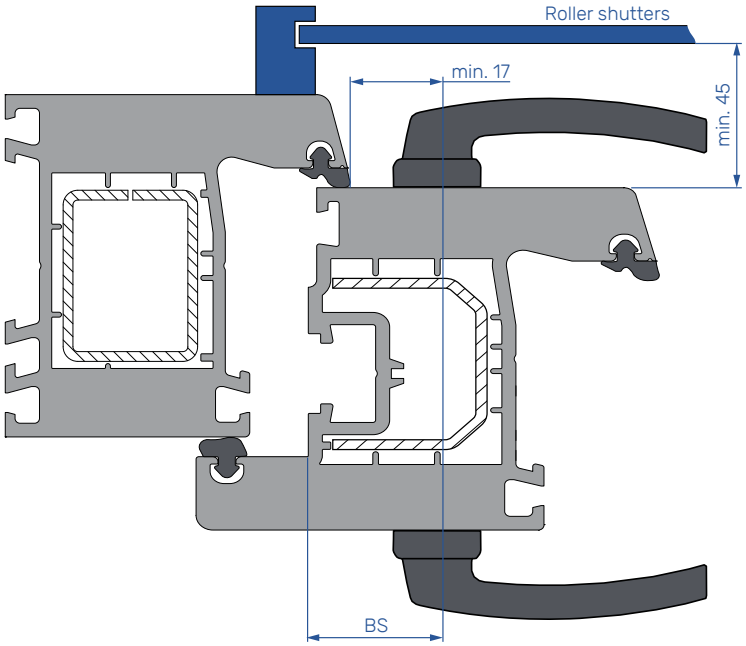
BS	X
7,5	20
14,5	27

BS	Y
7,5	34
14,5	64

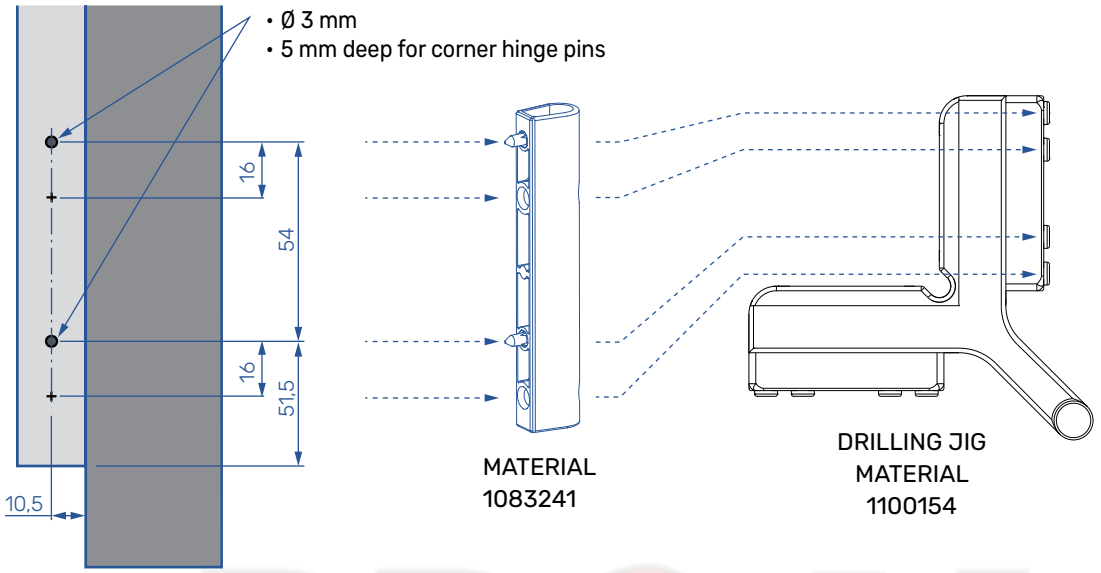
Lock-case drilling

ESPAGNOLETTE LOCK-CASING





Corner hinge K3

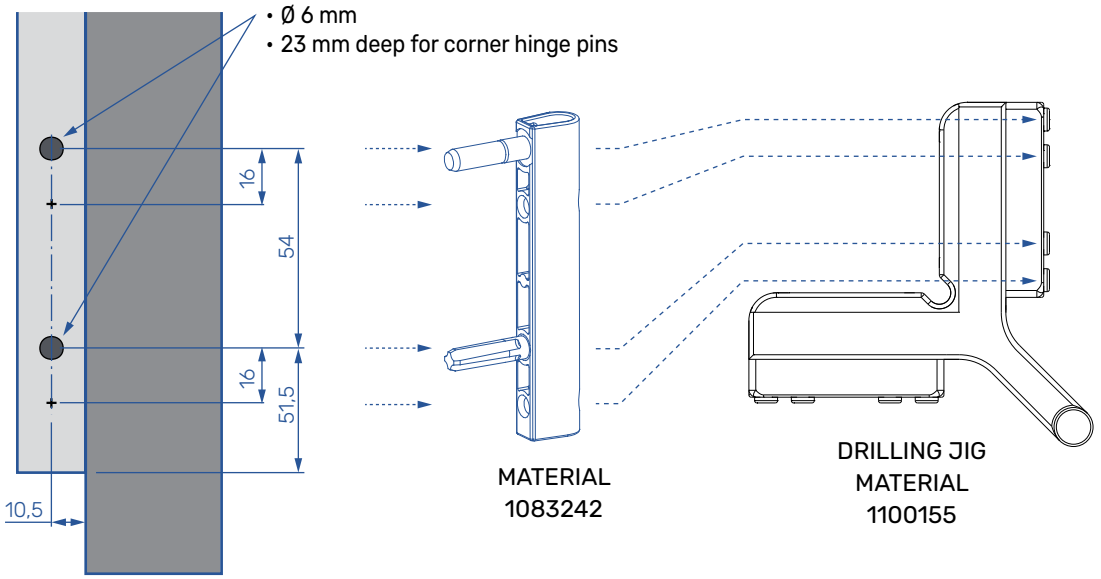


Recommendation:

- Pre-drill 2 shallow pilot holes for better screw guidance.

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG.

Corner hinge K6

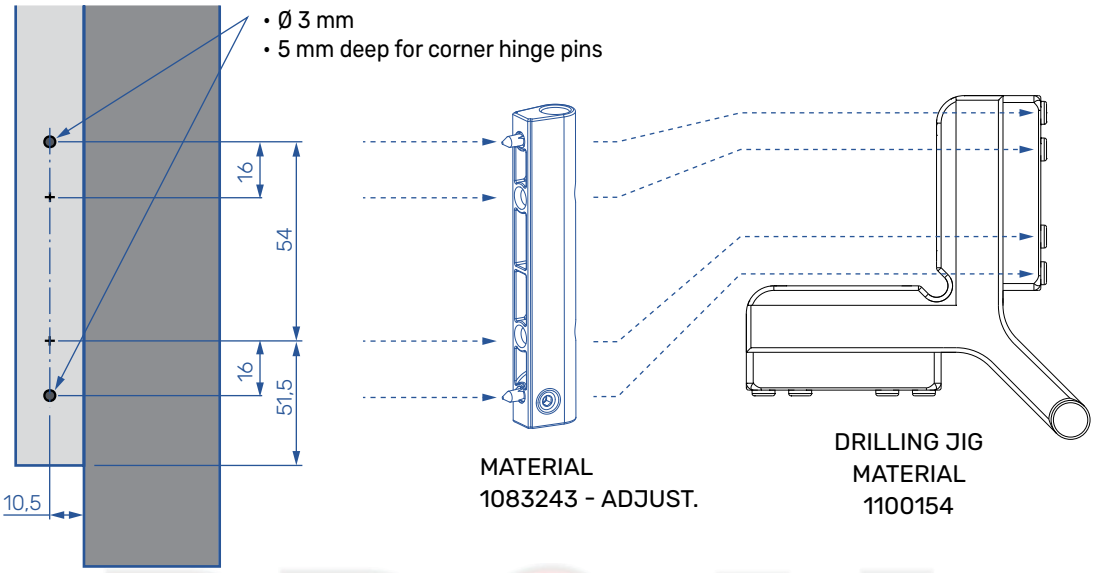


Recommendation:

- Pre-drill 2 shallow pilot holes for better screw guidance.

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG,
*SUPPORTING-PINS AND SCREWS MUST PENETRATE AT LEASTE TWO PROFILE WALLS.

Corner hinge K3 - adjustable

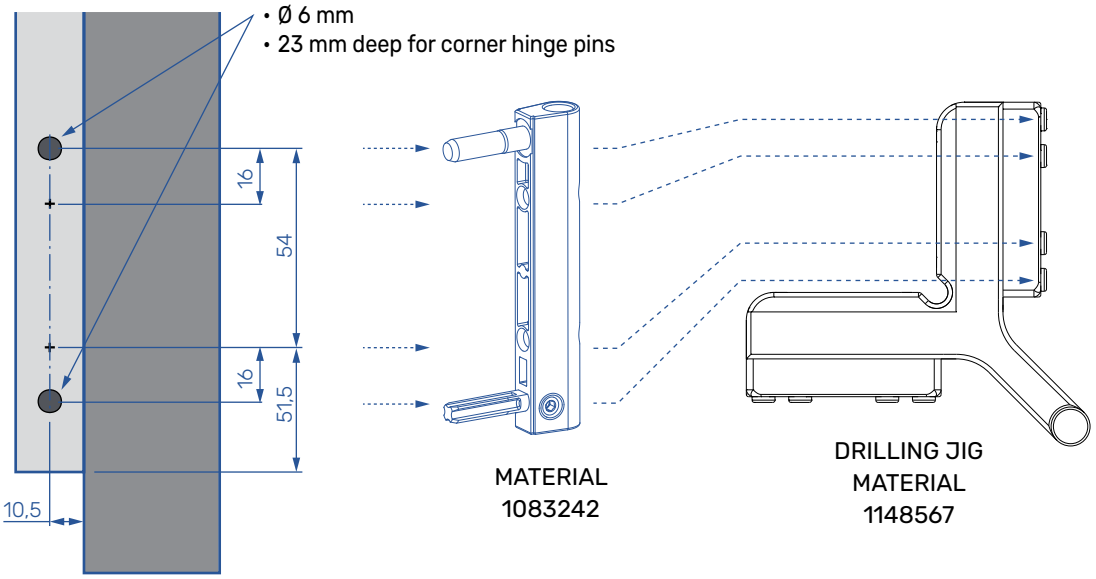


Recommendation:

- Pre-drill 2 shallow pilot holes for better screw guidance.

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG.

Corner hinge K6 - adjustable

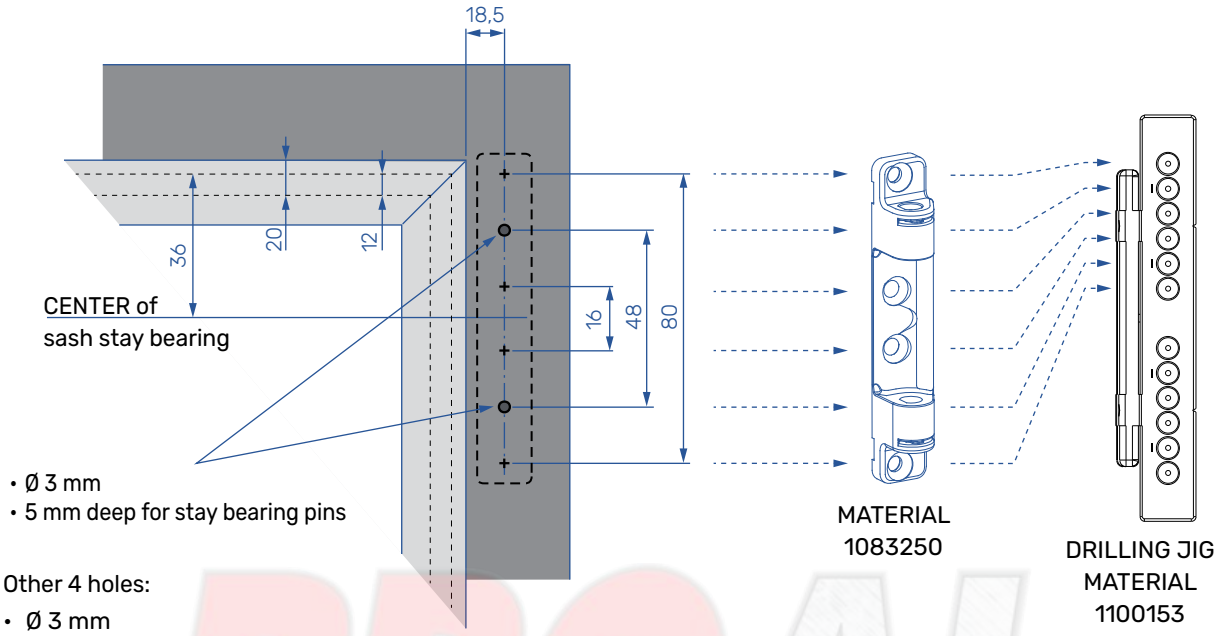


Recommendation:

- Pre-drill 2 shallow pilot holes for better screw guidance.

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG,
*SUPPORTING-PINS AND SCREWS MUST PENETRATE AT LEASTE TWO PROFILE WALLS.

Sash stay bearing K3



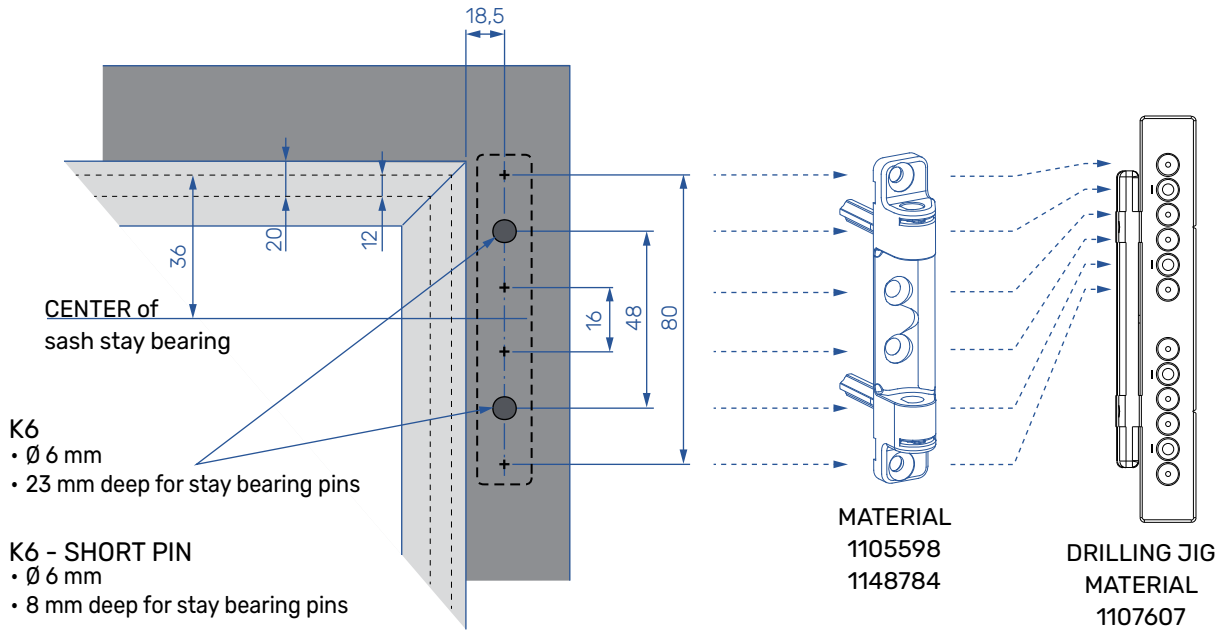
- Ø 3 mm
- 5 mm deep for stay bearing pins

Other 4 holes:

- Ø 3 mm
- drill through the reinforcement

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG.

Sash stay bearing K6



K6
- Ø 6 mm
- 23 mm deep for stay bearing pins

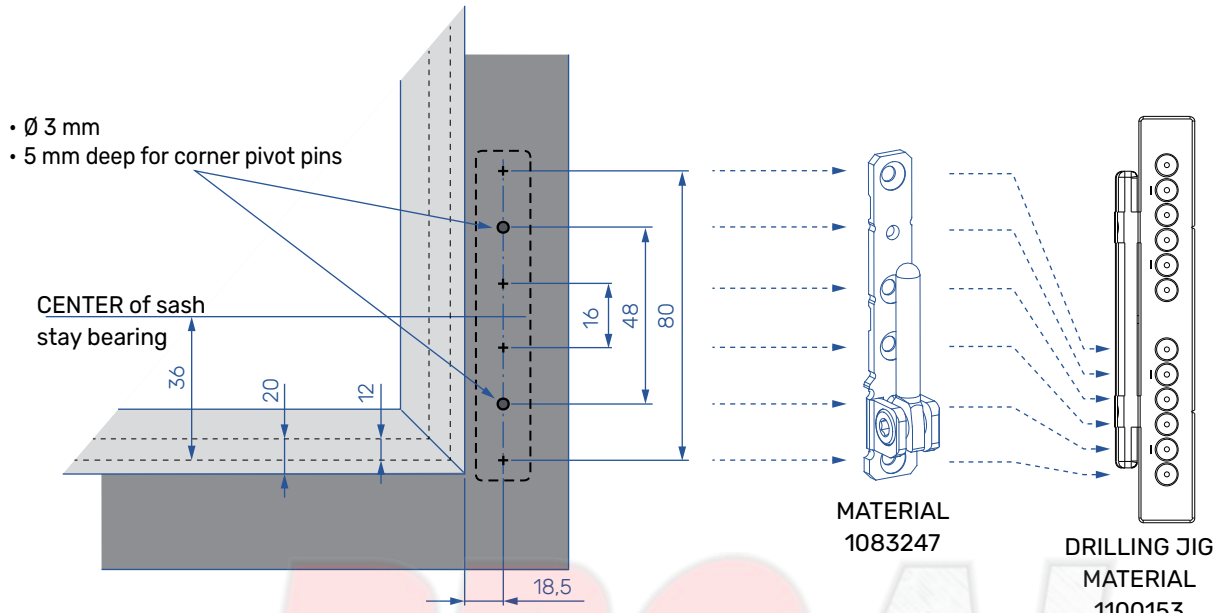
K6 - SHORT PIN
- Ø 6 mm
- 8 mm deep for stay bearing pins

Other 4 holes:

- Ø 3 mm
- drill through the reinforcement

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG,
*SUPPORTING-PINS AND SCREWS MUST PENETRATE AT LEASTE TWO PROFILE WALLS.

Corner pivot rest K3

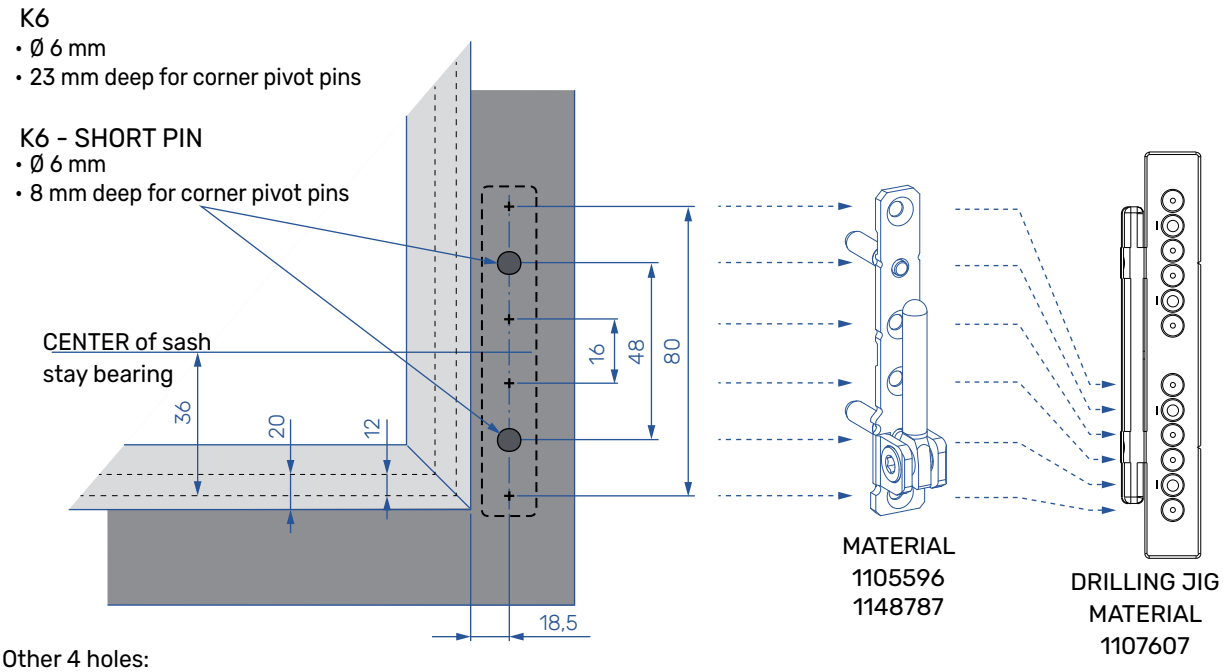


Other 4 holes:

- Ø 3 mm
- drill through the reinforcement

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG.

Corner pivot rest K6

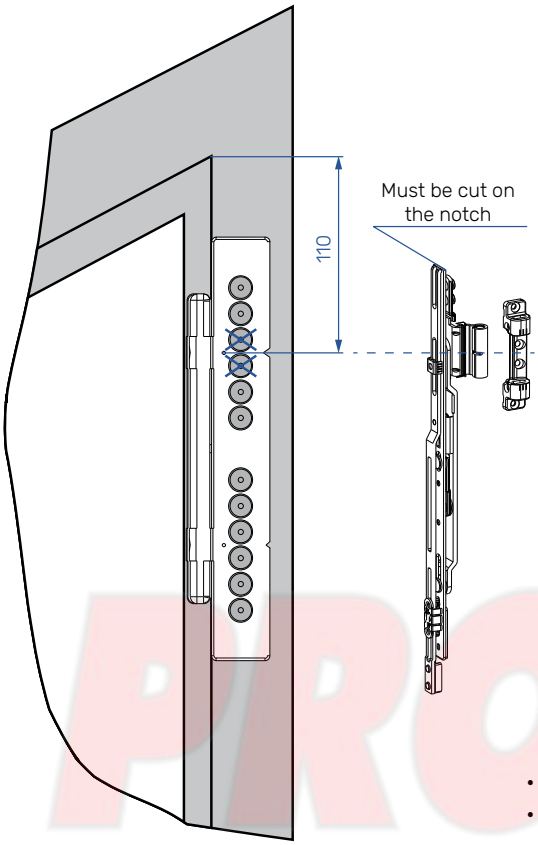


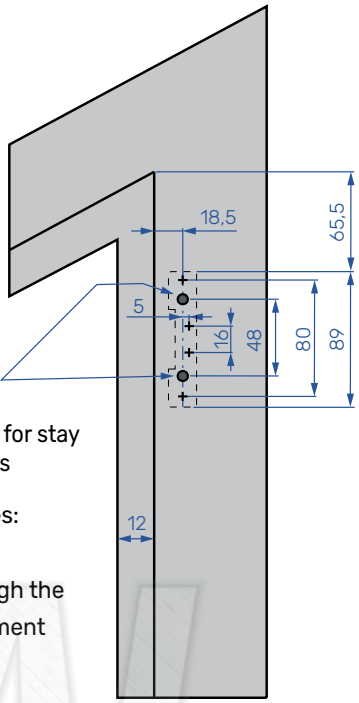
Other 4 holes:

- Ø 3 mm
- drill through the reinforcement

*WHEN USING AN 18 OR 22 mm HARDWARE OVERLAP, READJUST THE DRILLING JIG,
*SUPPORTING-PINS AND SCREWS MUST PENETRATE AT LEASTE TWO PROFILE WALLS.

Pitched window - upper hinge





- Ø 3 mm
- 5 mm deep for stay bearing pins

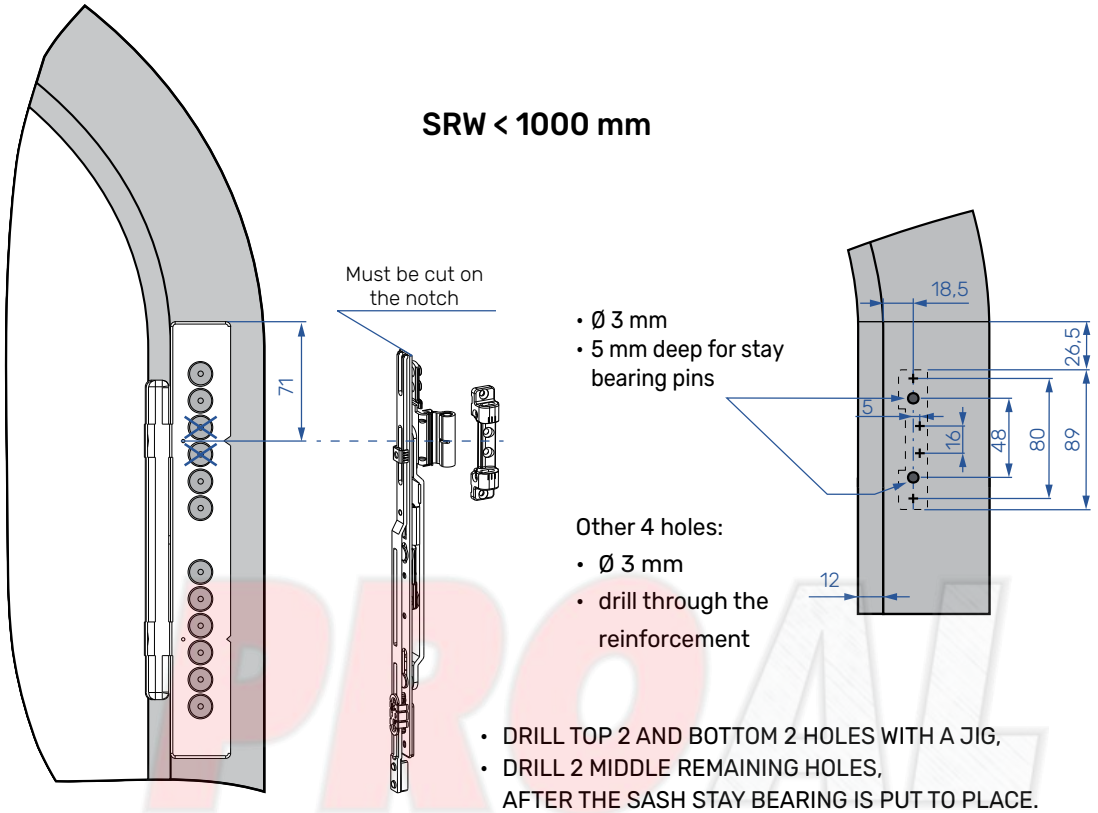
Other 4 holes:

- Ø 3 mm
- drill through the reinforcement

- DRILL TOP 2 AND BOTTOM 2 HOLES WITH A JIG,
- DRILL 2 MIDDLE REMAINING HOLES,
  AFTER THE SASH STAY BEARING IS PUT TO PLACE.

Arched window - upper hinge

SRW < 1000 mm



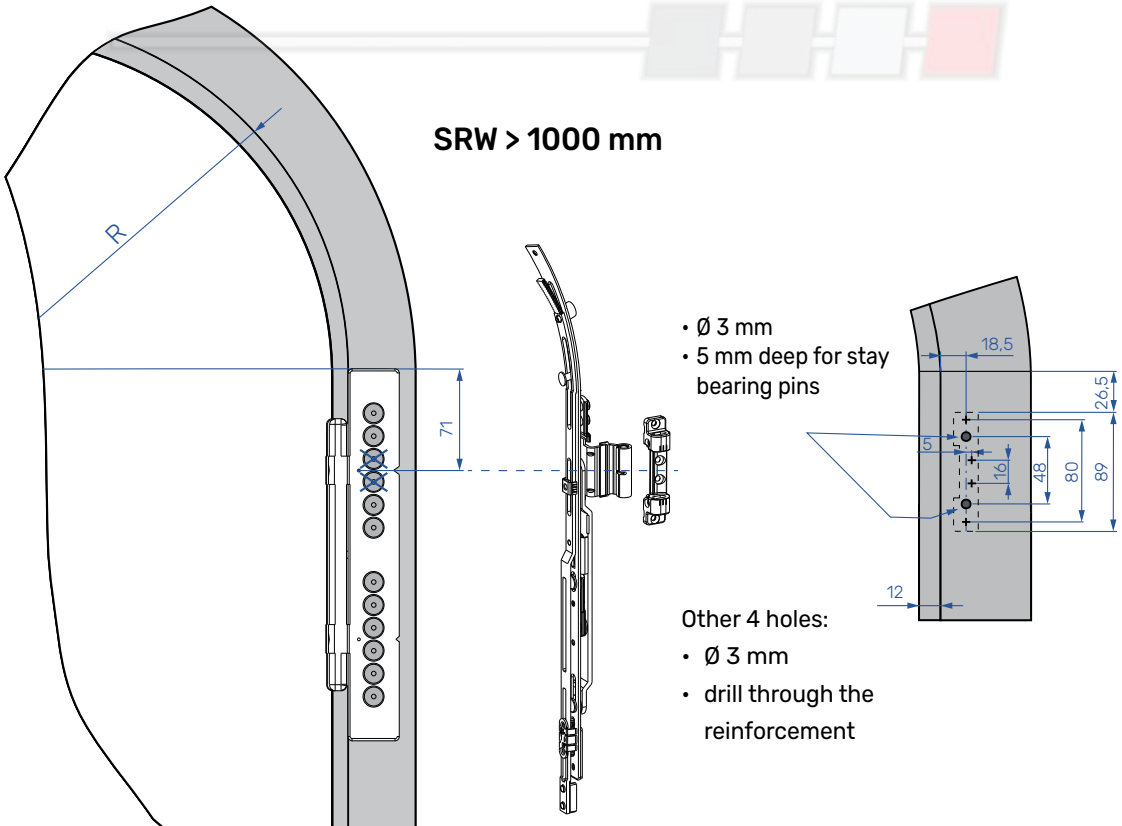
- Ø 3 mm
- 5 mm deep for stay bearing pins

Other 4 holes:

- Ø 3 mm
- drill through the reinforcement

- DRILL TOP 2 AND BOTTOM 2 HOLES WITH A JIG,
- DRILL 2 MIDDLE REMAINING HOLES, AFTER THE SASH STAY BEARING IS PUT TO PLACE.

SRW > 1000 mm



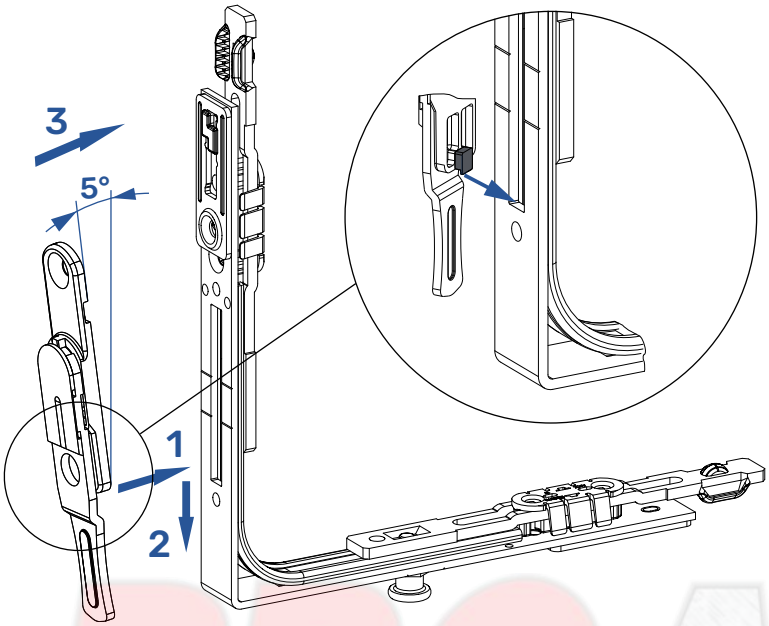
- Ø 3 mm
- 5 mm deep for stay bearing pins

Other 4 holes:

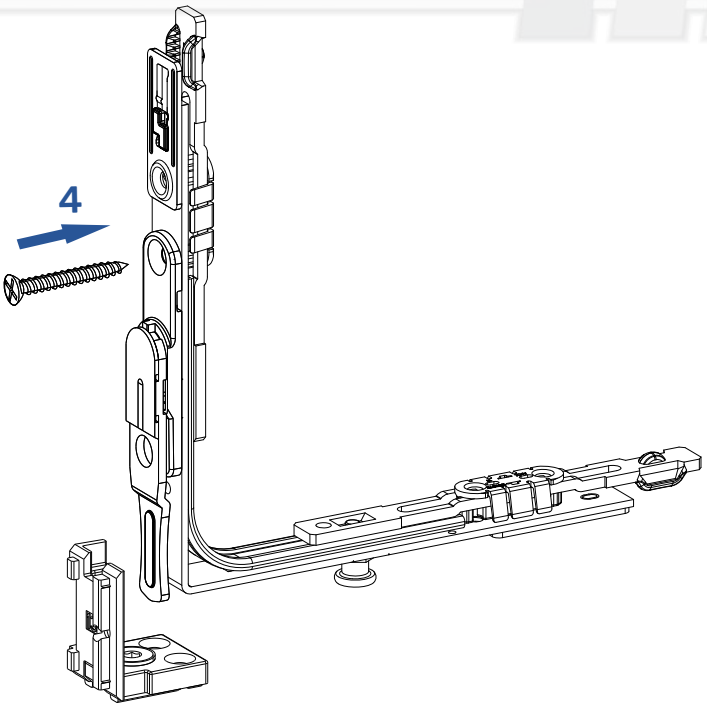
- Ø 3 mm
- drill through the reinforcement

- DRILL TOP 2 AND BOTTOM 2 HOLES WITH A JIG,
- DRILL 2 MIDDLE REMAINING HOLES, AFTER THE SASH STAY BEARING IS PUT TO PLACE.

Pitched / arched window - sash lifter

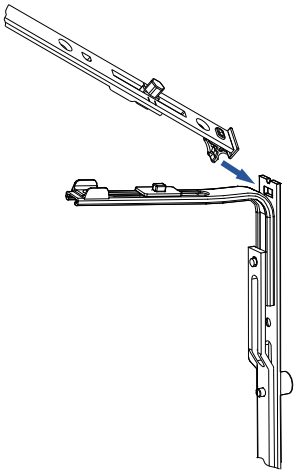


PROAL

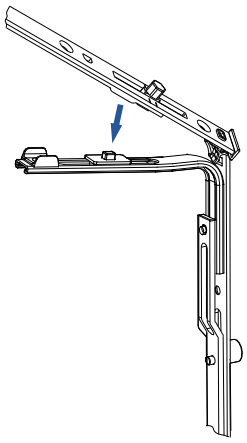


PROAL

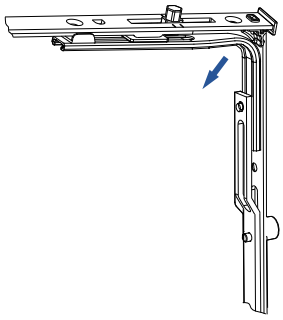
Sash stay guide and center lock assembly



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

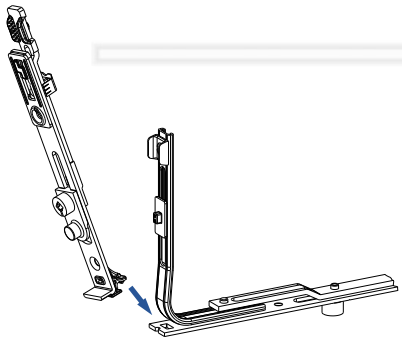


2.) Clamp the hole of a driving rod onto the stay guide connector

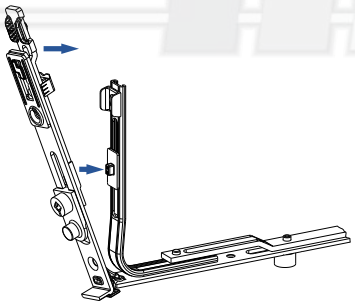


3.) Insert the assembly into a sash groove

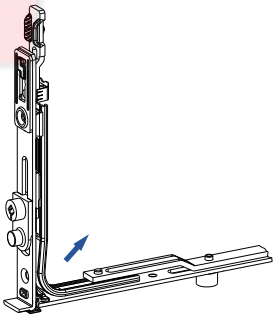
Tilt lock bolt and center lock assembly



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

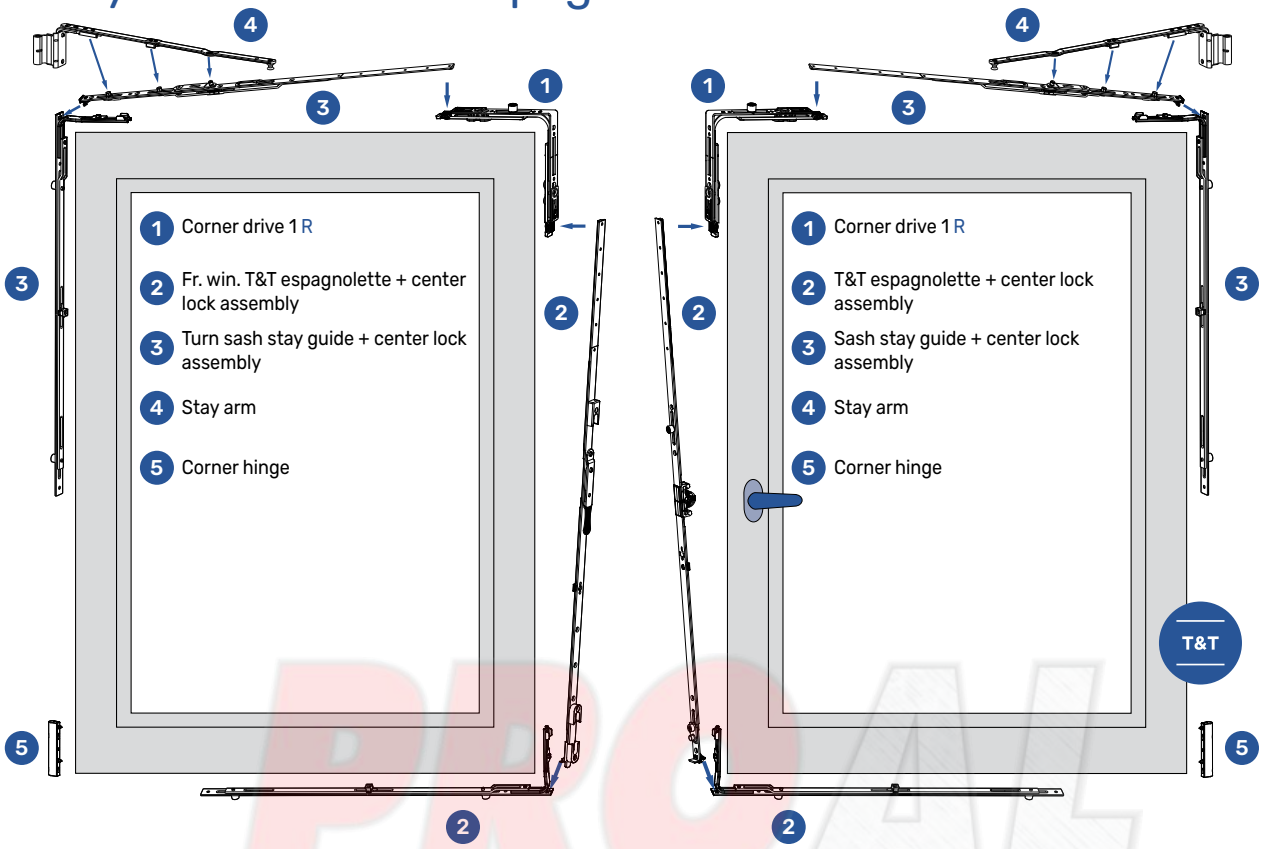


2.) Clamp the hole of a driving rod onto the tilt lock bolt connector

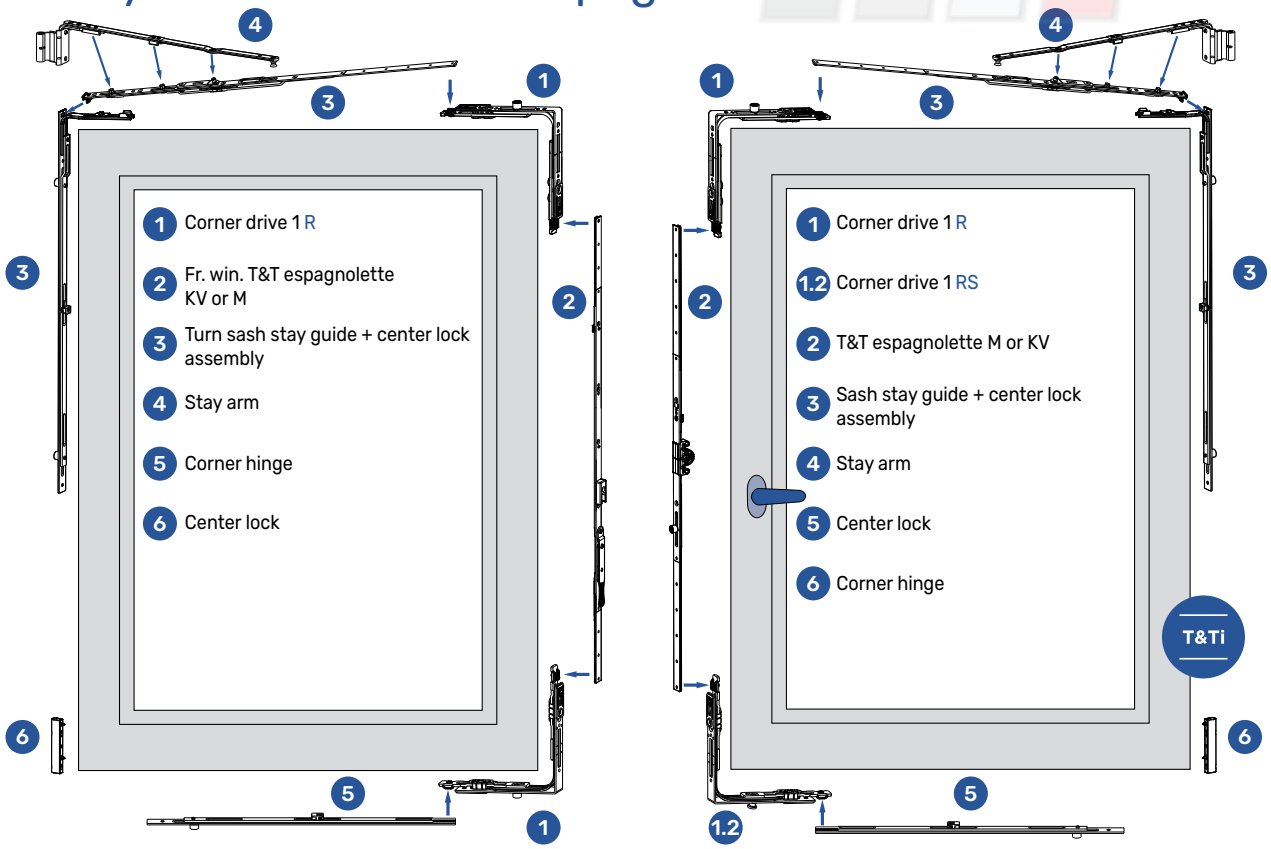


3.) Insert the assembly into a sash groove

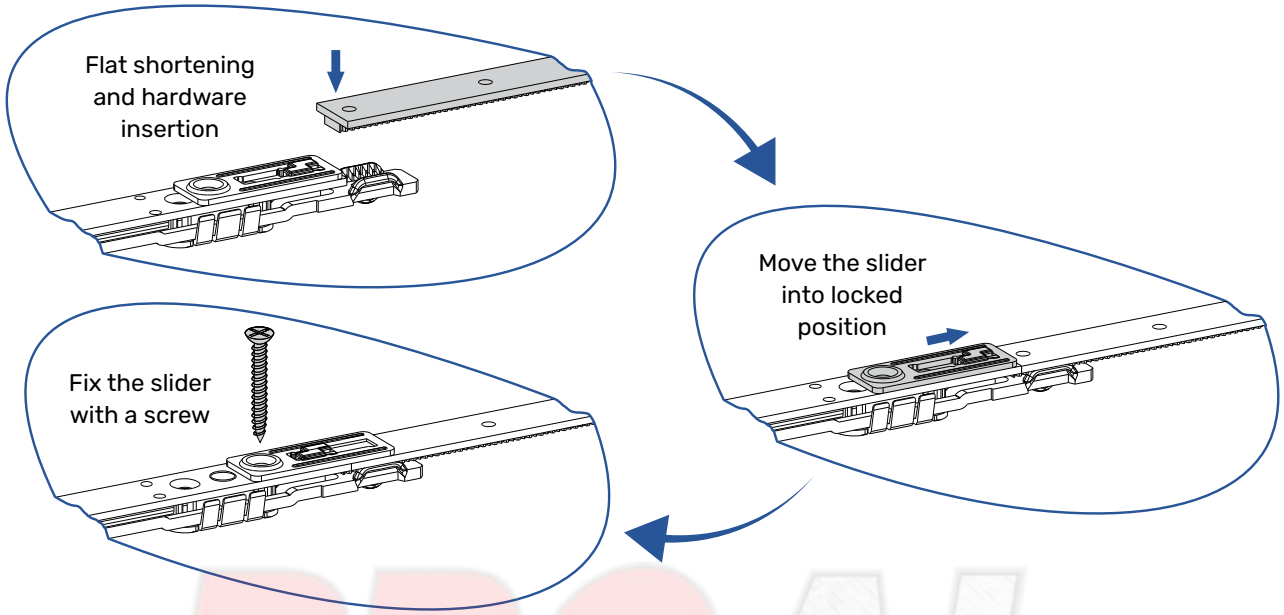
T&T system with T&T espagnolette



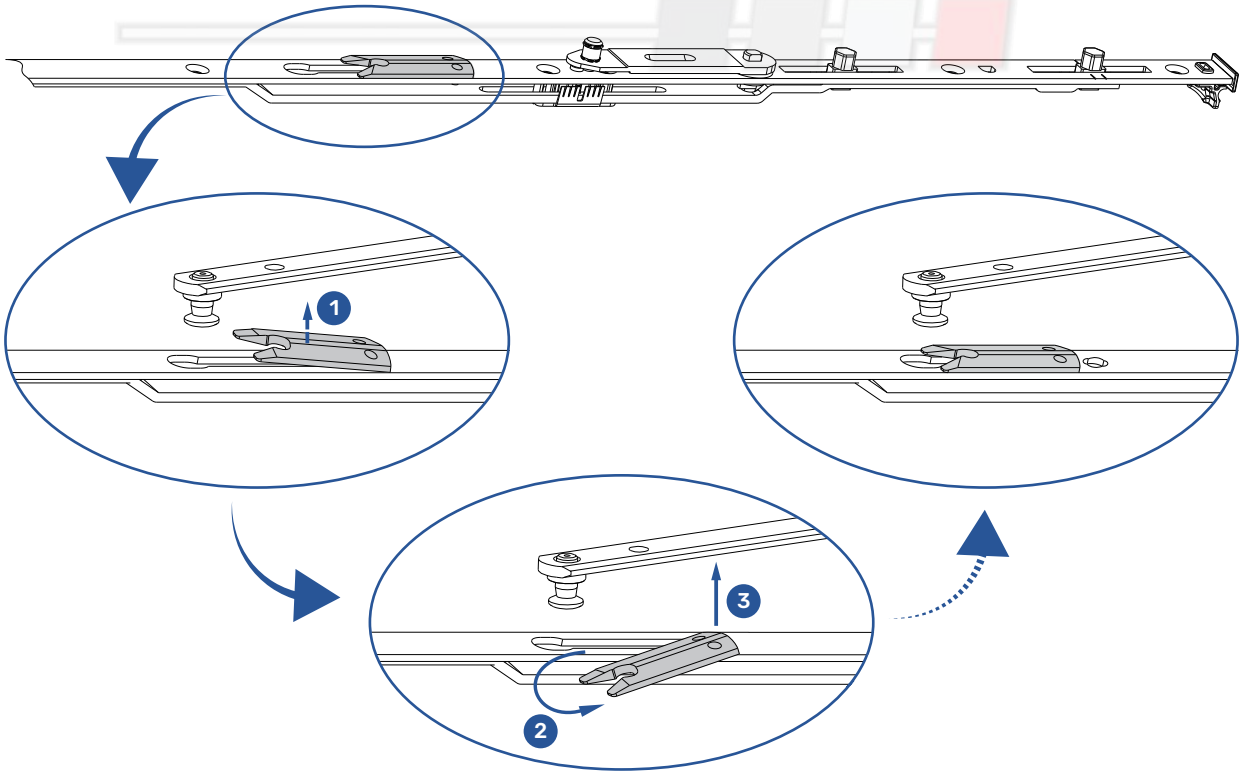
T&Ti system with T&T M espagnolette



Slider

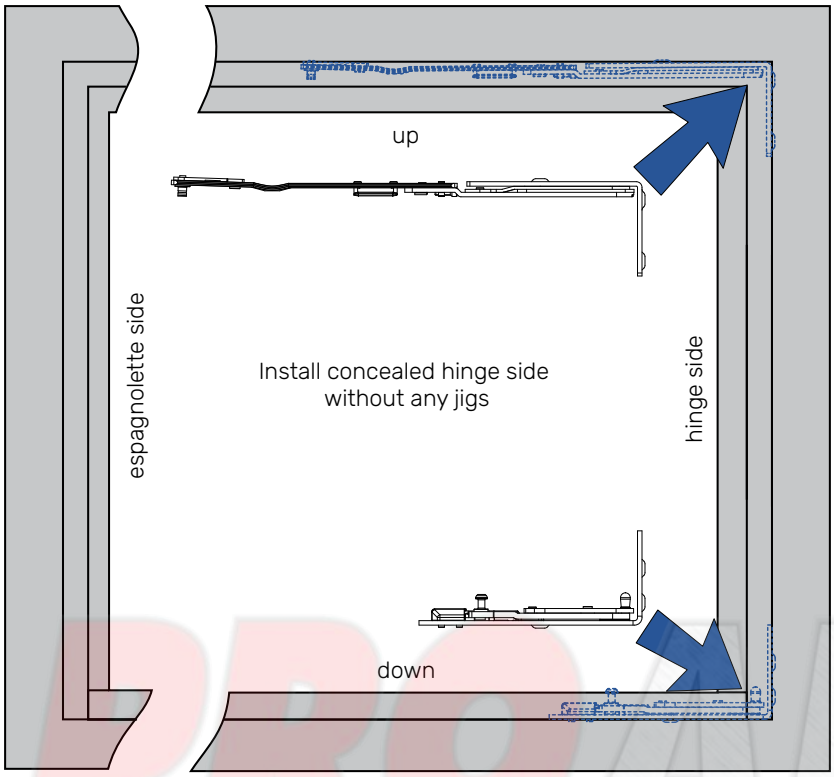


Anti slam device - tilt reducement

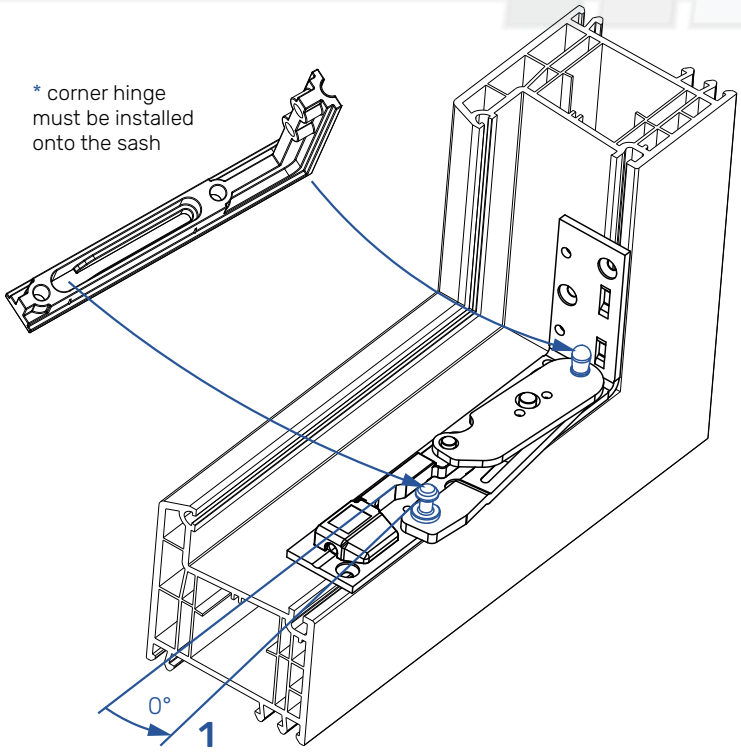


*PICTURES REPRESENT THE ADJUSTMENT OF THE ANTI-SLAM DEVICE (TILT REDUCEMENT)
*MOVE THE ANTI-SLAM DEVICE ON WINDOWS SRH < 500 mm, TO REDUCE TILT

Stay arm and corner pivot - frame mounting



Corner pivot and corner hinge - frame mounting

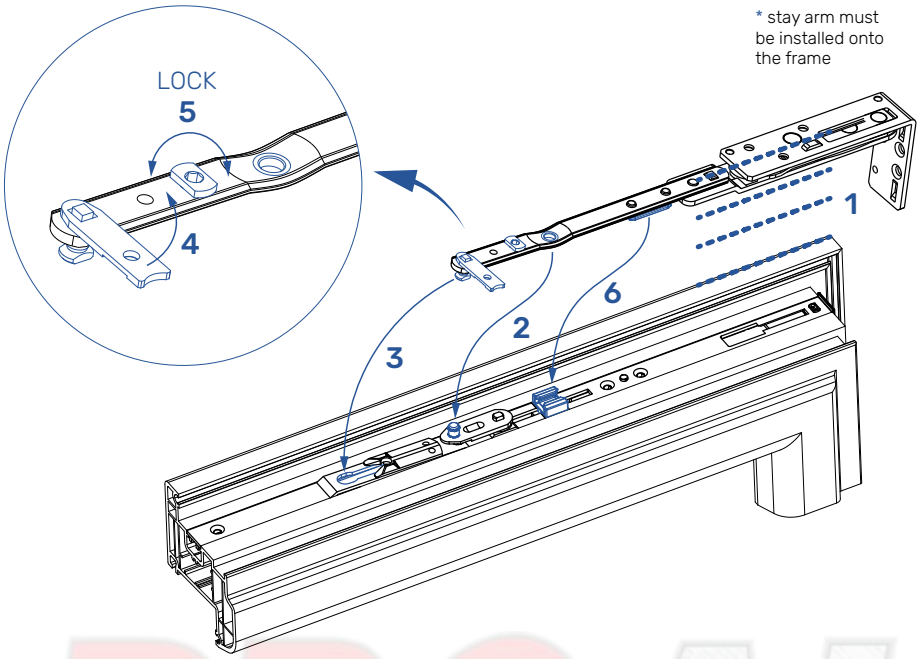


The sash (with corner hinge) is lowered vertically onto the corner pivot.
The corner pivot is in closed position (0°).

CONCEALED HINGE SIDE INSTALLATION INSTRUCTIONS

Tilt & turn / Turn only

Stay arm and sash stay guide



TURN & TILT - TURN FIRST

TURN THE HANDLE INTO VERTICAL (TILT) POSITION

1. align the sash paralell with stay arm,
2. connect the pin with stay arm,
3-5. engage the locking mechanism,
6. turn the handle back to horizontal (turn) position, to engage the connectors on stay arm and sash stay guide.

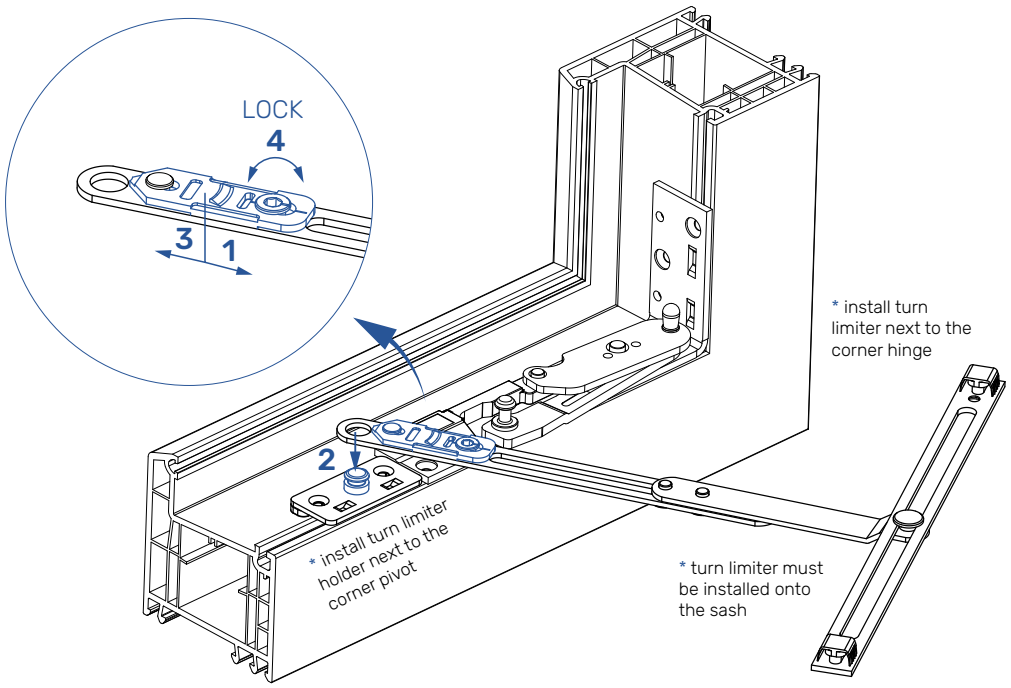
TILT & TURN - TILT FIRST

TURN THE HANDLE INTO HORIZONTAL (TILT) POSITION

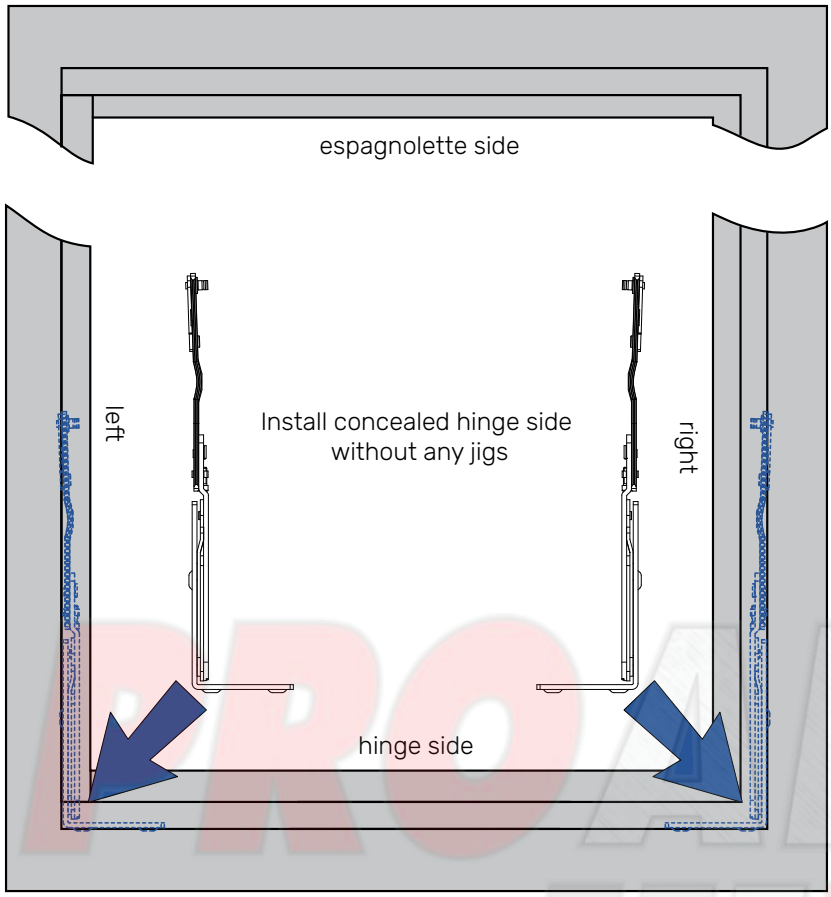
1. align the sash paralell with stay arm,
2. connect the pin with stay arm,
3-5. engage the locking mechanism,
6. turn the handle to vertical (turn) position, to engage the connectors on stay arm and sash stay guide.

* FOR REBATE STAY ARM AND REBATE STAY ARM GUIDE FOLLOW STEPS 1.-5.

Turn limiter and turn limiter holder

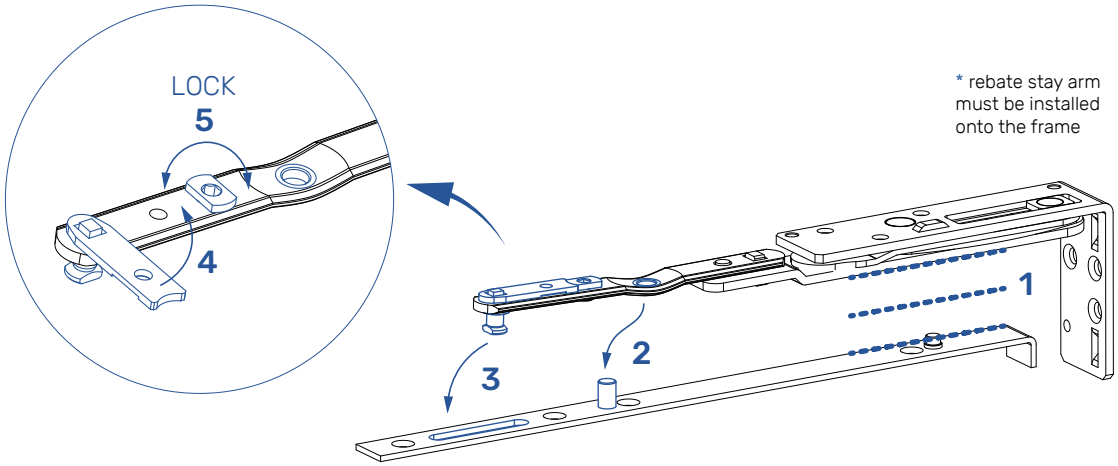


Rebate stay arm - frame mounting



CONCEALED HINGE SIDE INSTALLATION INSTRUCTIONS
Tilt only

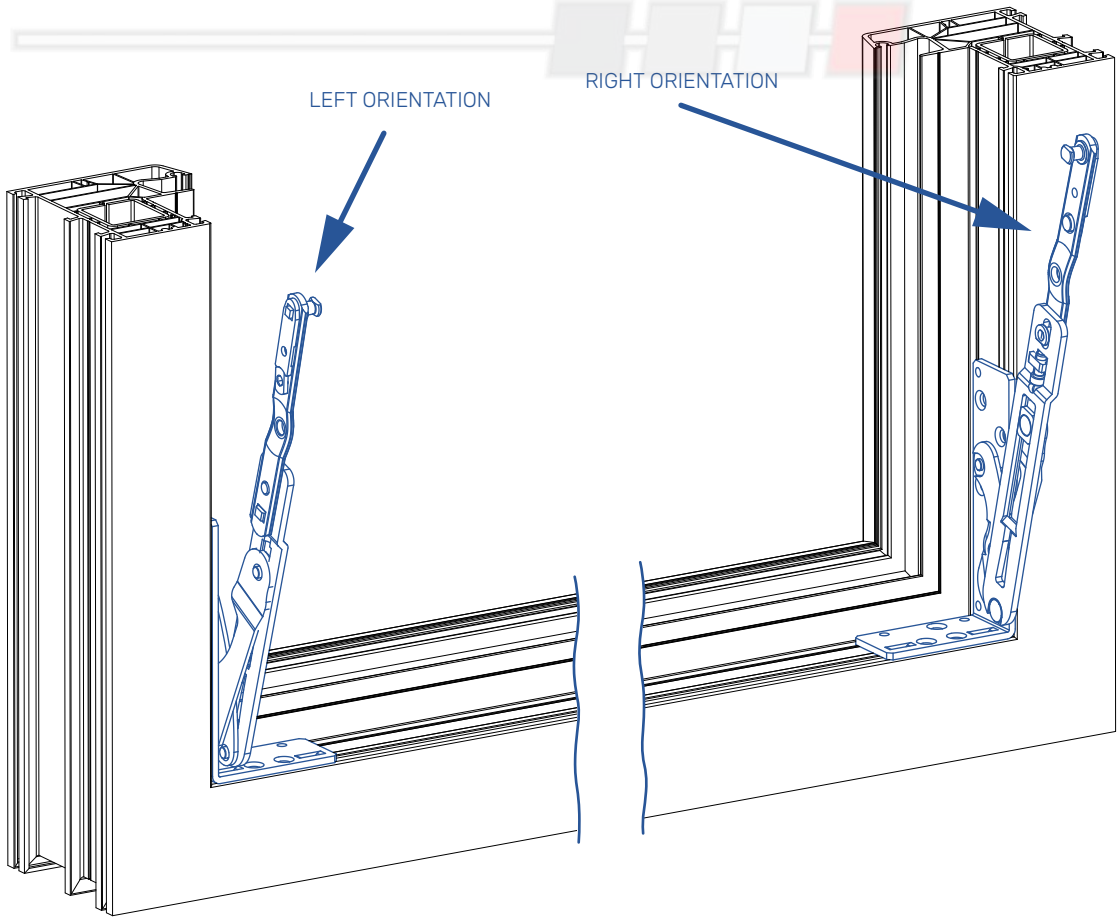
Rebate stay arm and rebate stay arm guide



TURN ONLY

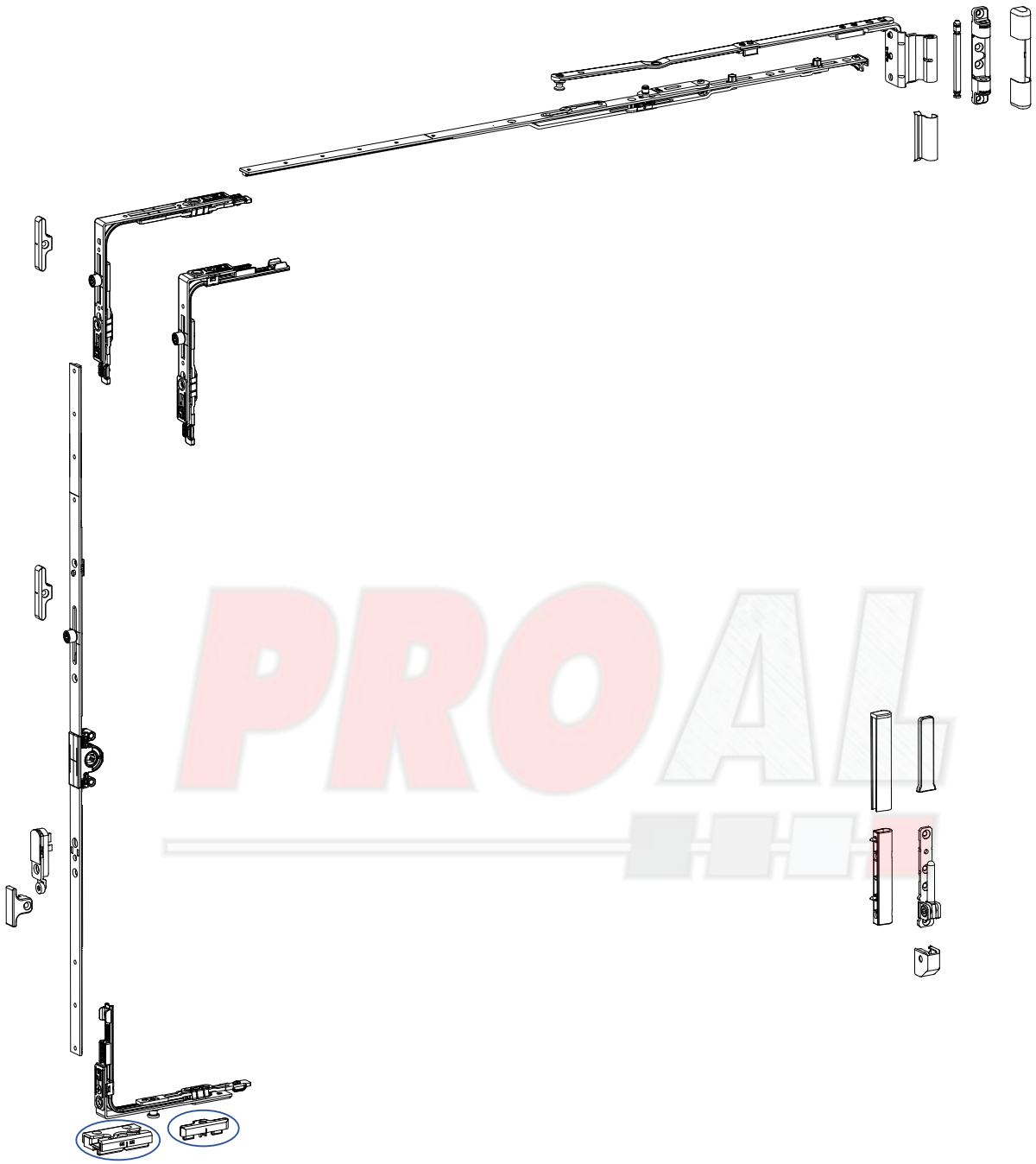
1. align the sash paralell with stay arm,
2. connect the pin with rebate stay arm,
3-5. engage the locking mechanism.

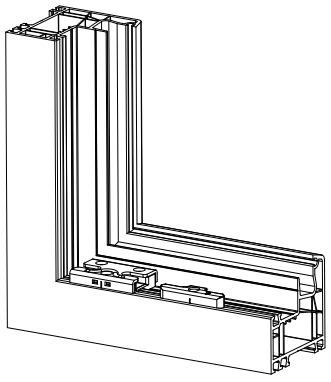
Rebate stay arm orientation

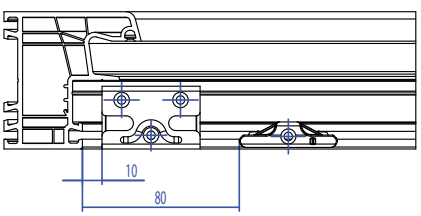


INSTALLATION INSTRUCTIONS

For low windows SRH < 600 mm

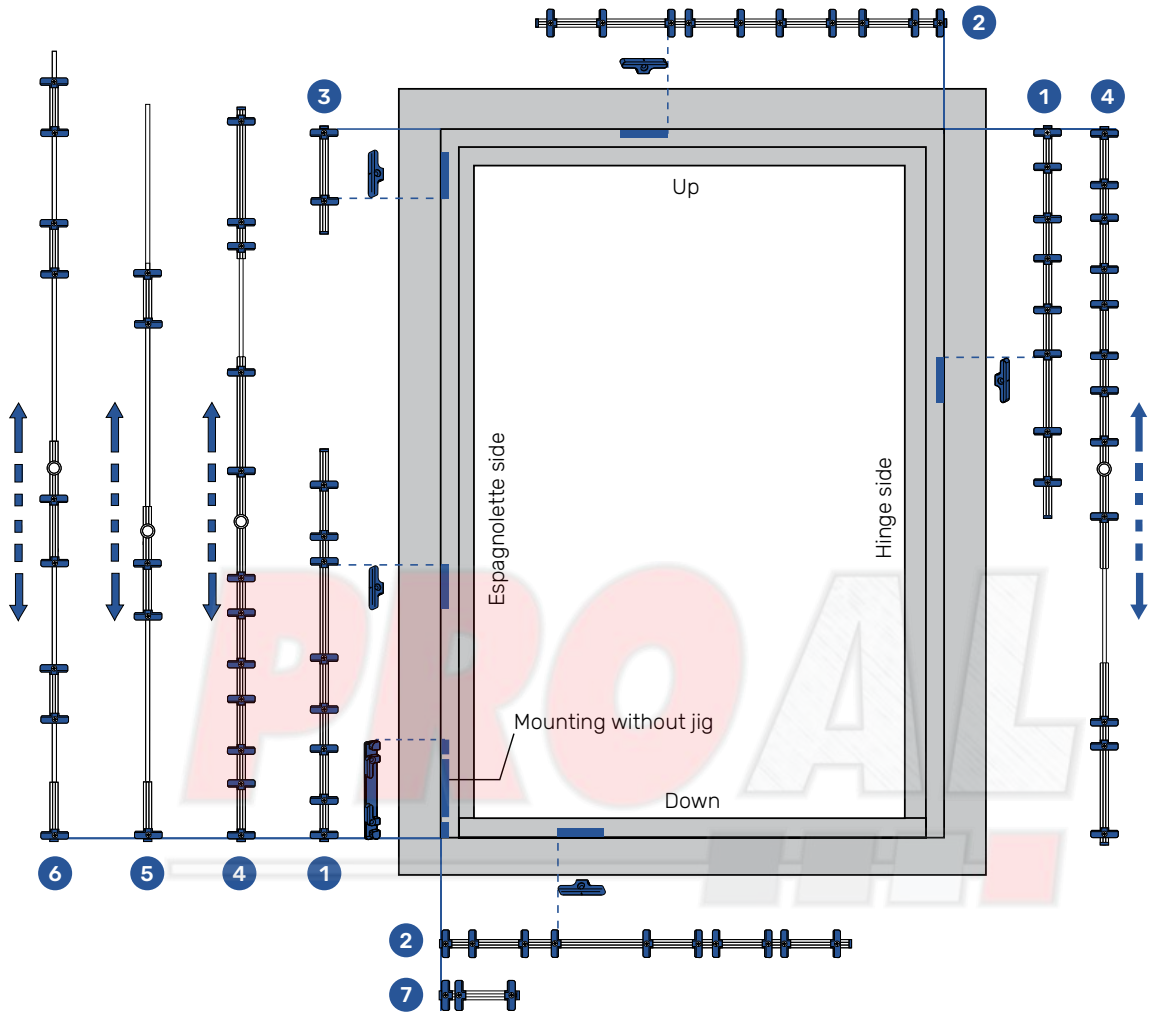






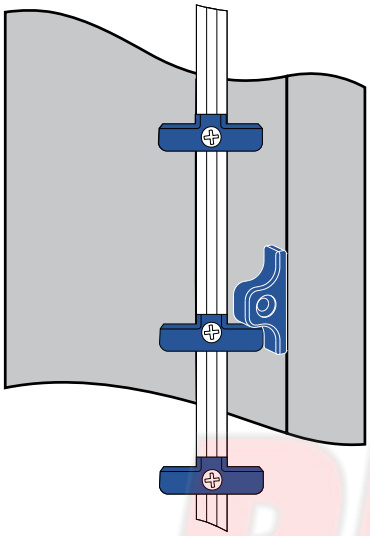
PROAL

Types

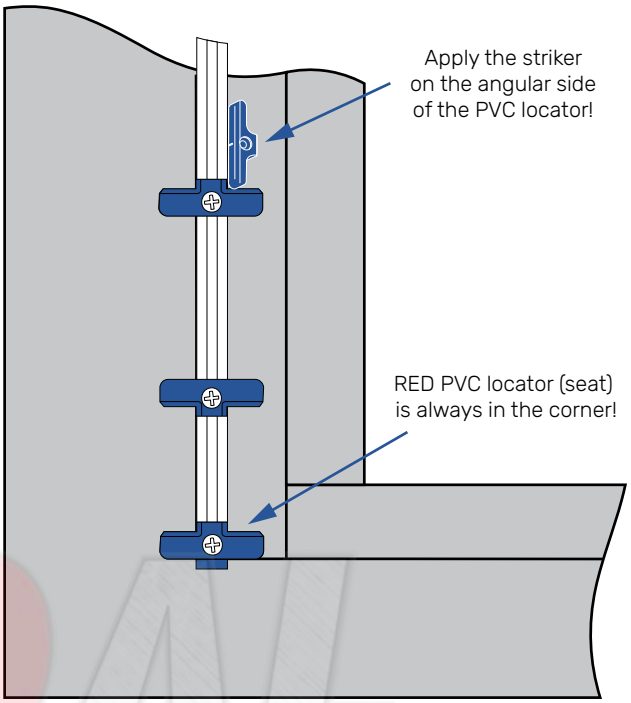


TYPE	DESCRIPTION	NOTE	MATERIAL
1	Constant handle height espag. / hinge side center lock	SRH < 1600	1103566
1a	TYPE 1 - with additional cam - telescopic jig	SRH < 1600	1103567
2	Center lock and sash stay guide up / center lock down	SRW < 1400	1103568
3	Corner drive	SRW < 1400	1103569
4	Constant handle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

Instructions for use



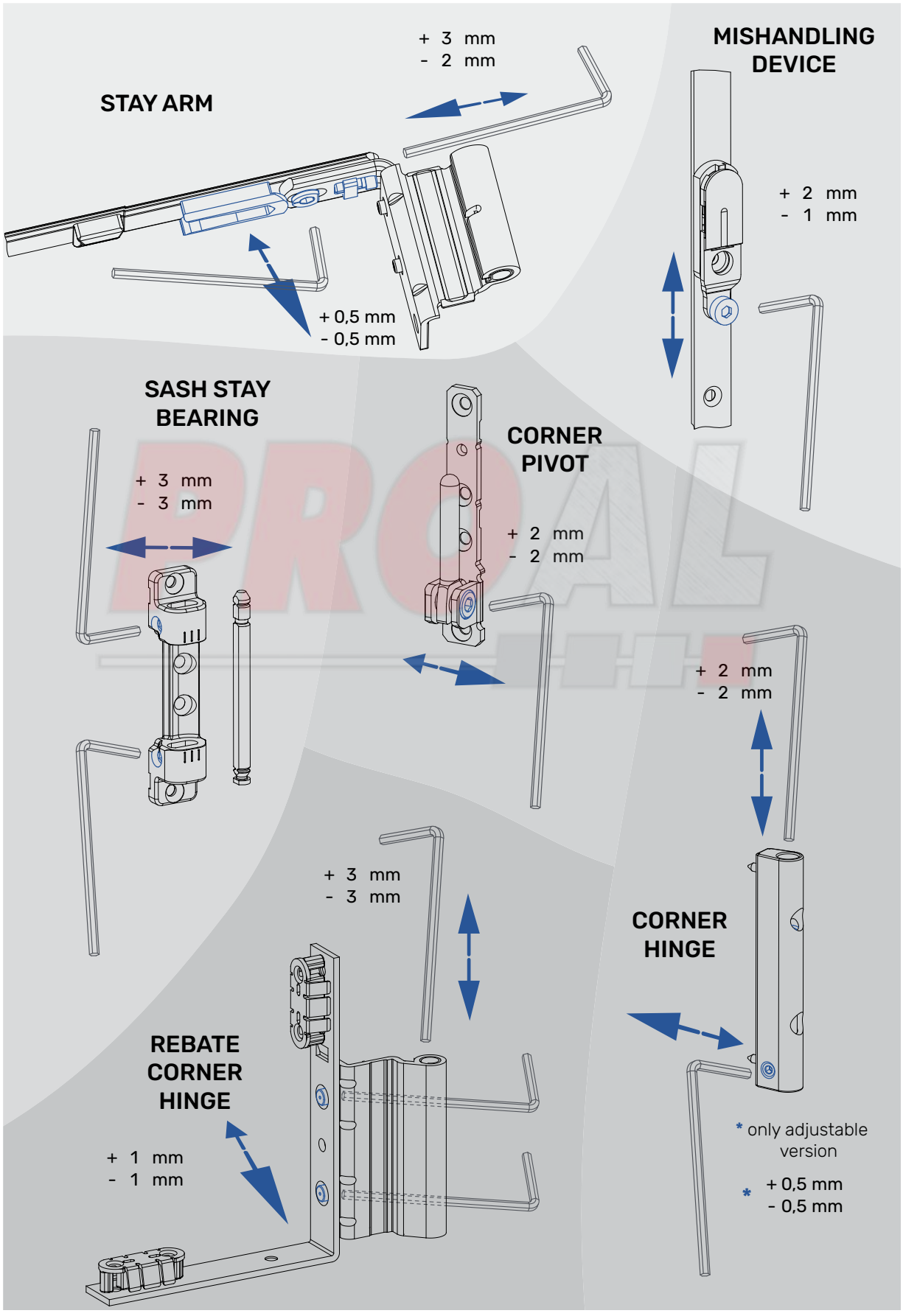
MSD scheme



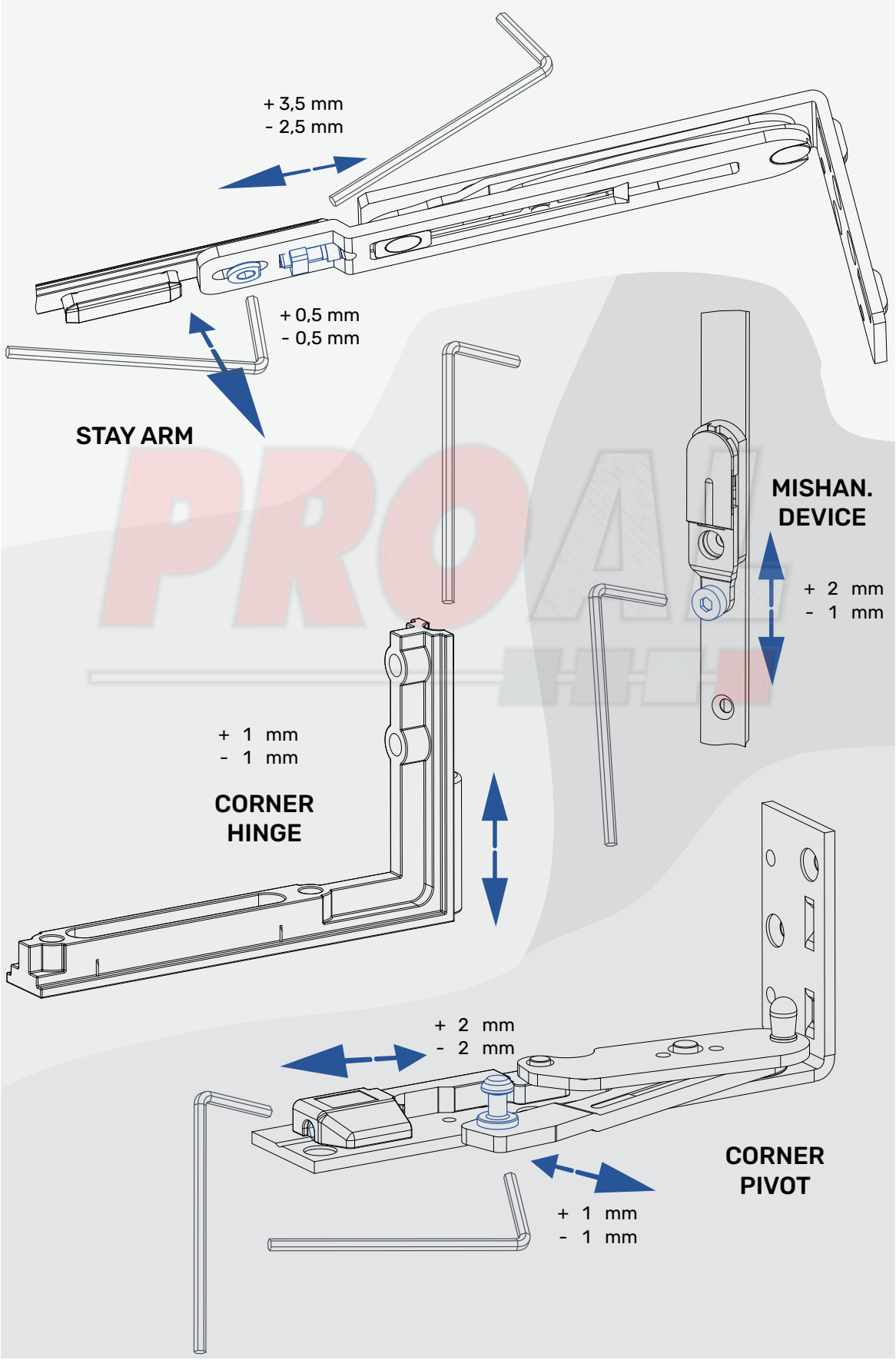
CAM scheme

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

Face-fit hinge side

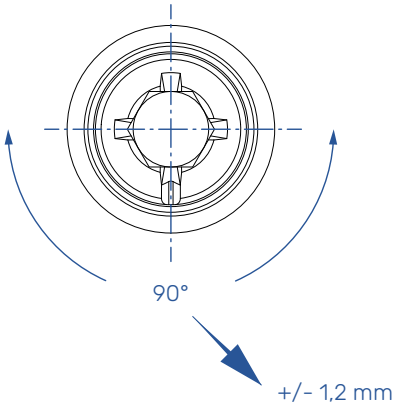


Concealed hinge side

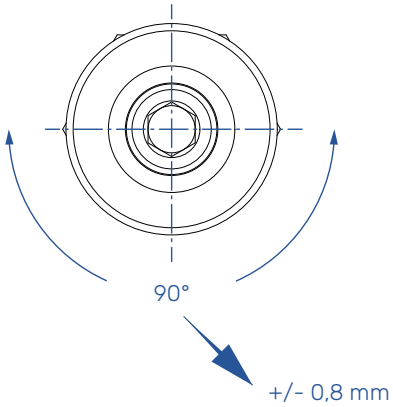


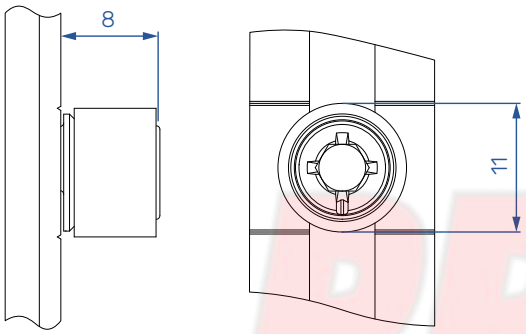
LOCKING CAM ADJUSTMENT INSTRUCTIONS

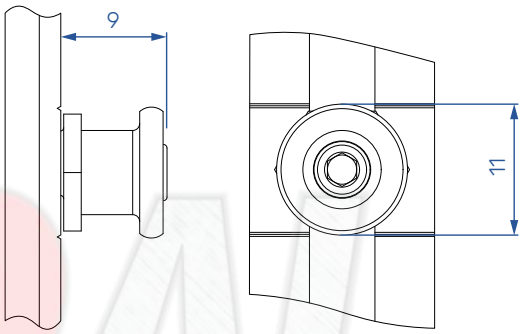
ROLLING CAM / R CAM



ROLLING SECURITY CAM / RS CAM

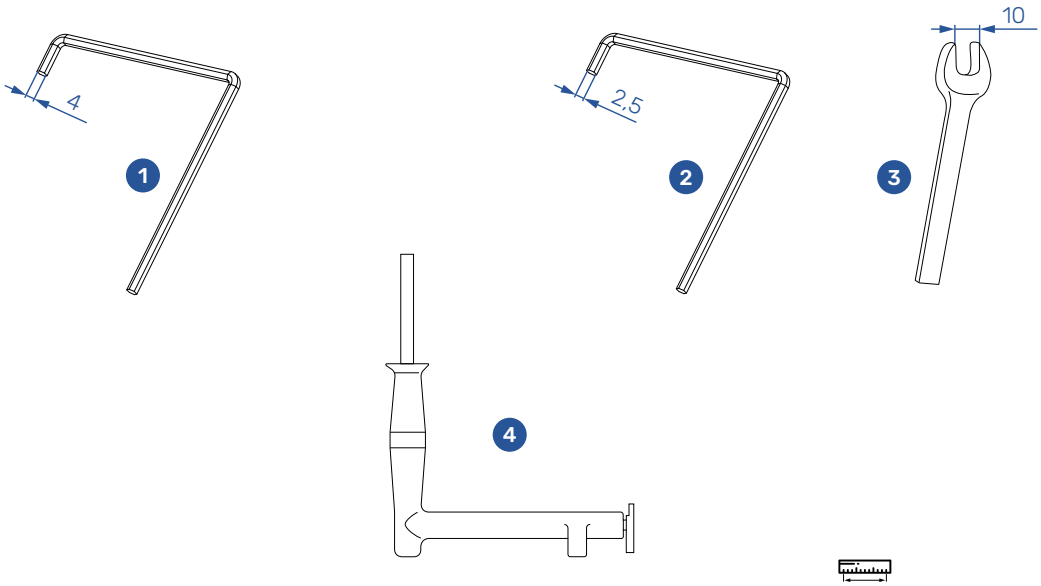






R CAM ADJUSTMENT TOOL

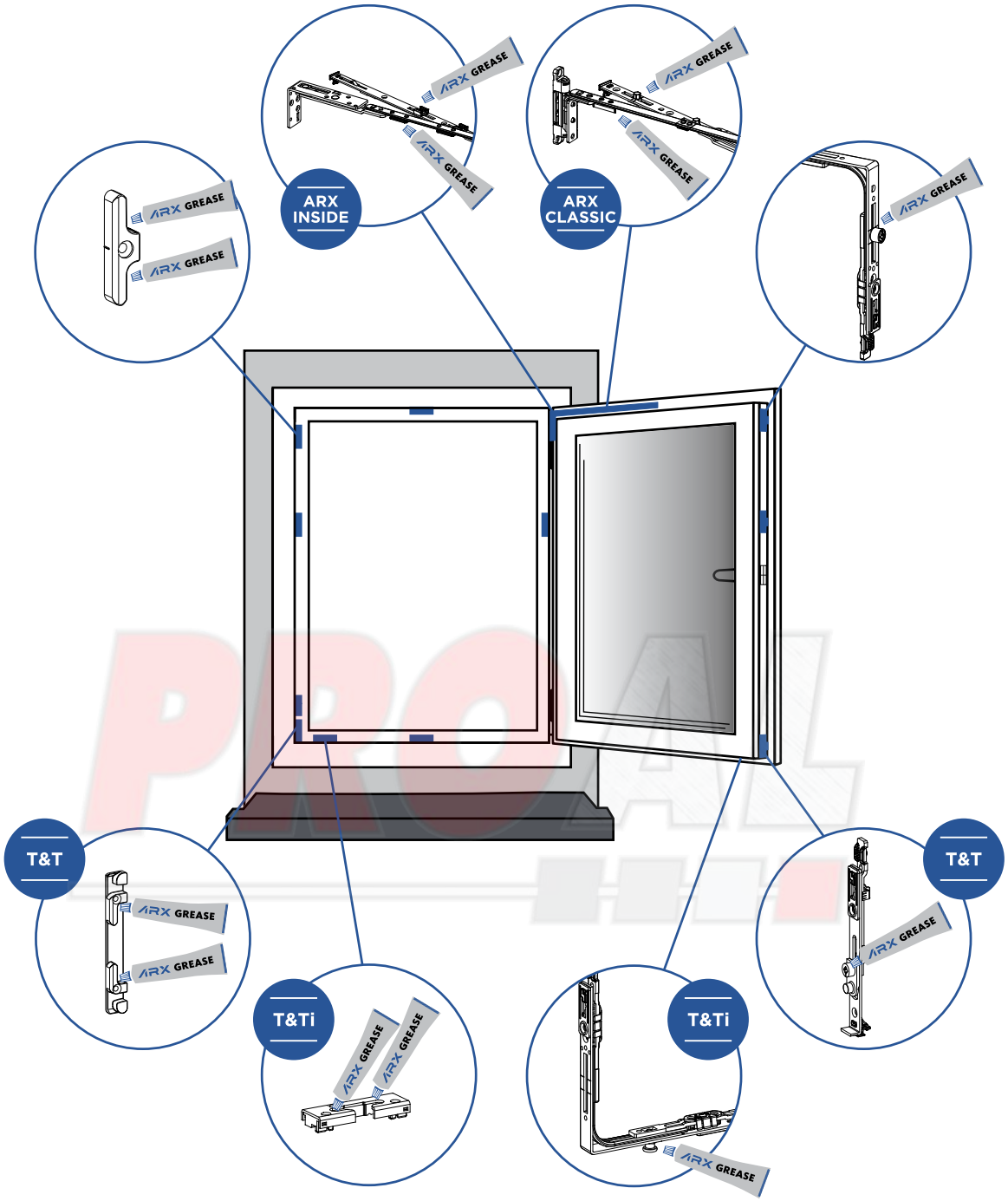
RS CAM ADJUSTMENT TOOL



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

* FOR SASH STAY BEARING PIN MOUNTING

MAINTENANCE RECOMMENDATIONS



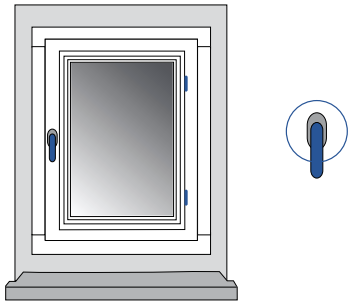
Regular greasing and oiling of operation-relevant components in the sash and frame is recommended at least once a year. In case of frequent use as in schools, hotels the oiling is recommended once in six months.

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

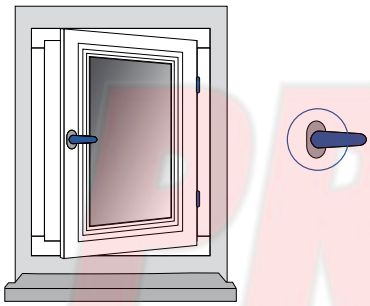
DESCRIPTION	MATERIAL
ARX - HIGH QUALITY HARDWARE GREASE	1055144

Operation of window

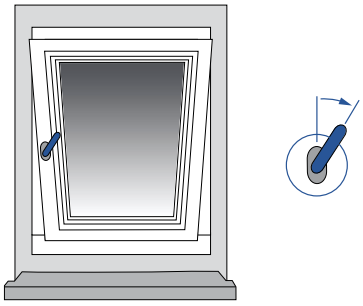
TURN & TILT - TURN FIRST



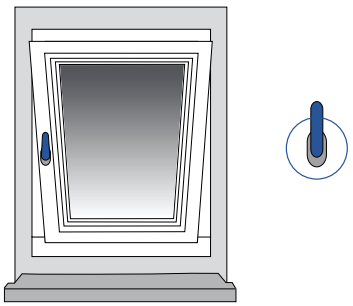
CLOSED POSITION



OPENED POSITION - TURN

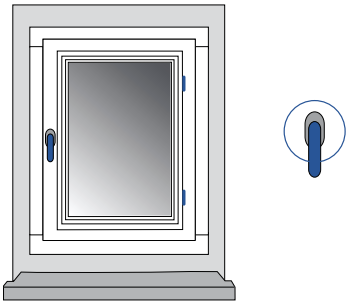


NIGHT VENT POSTION

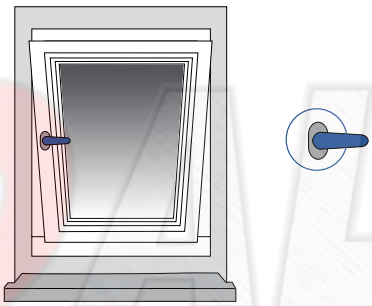


OPENED POSITION - TILT

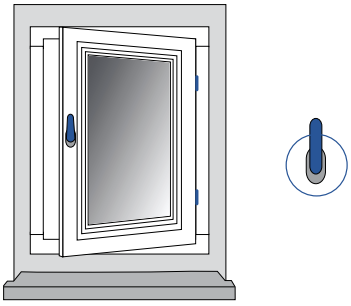
TILT & TURN - TILT FIRST



CLOSED POSITION

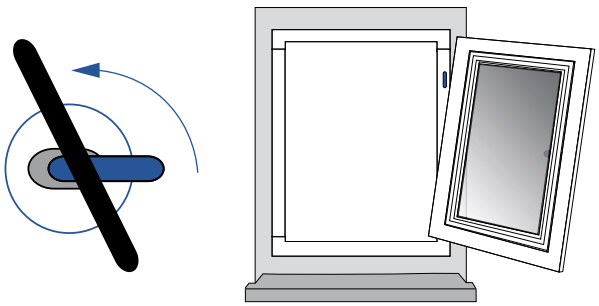


OPENED POSITION - TILT



OPENED POSITION - TURN

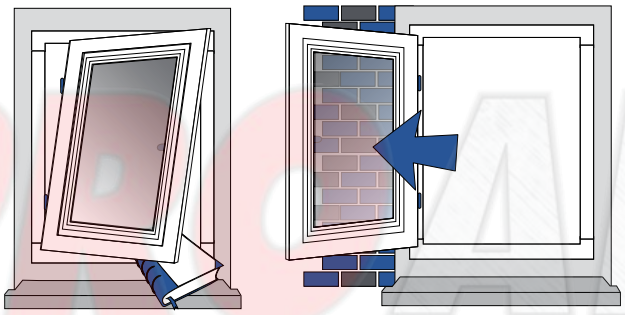
Warning!



MALPOSITIONING OF THE SASH

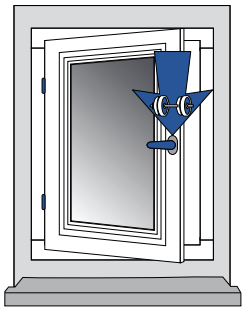
IN ORDER TO PRESERVE THE LONG OPERATIVENESS OF YOUR WINDOW AND TO GUARANTEE SECURITY, IT IS IMPERATIVE TO OBSERVE THE DIRECTIVES LISTED BELOW.

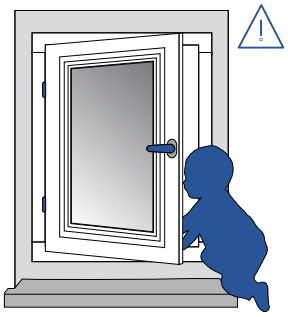
DO NOT PLACE ANY OBJECTS BETWEEN THE SASH AND FRAME.



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

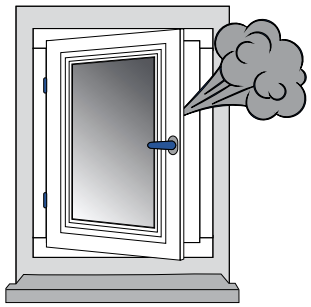
THE WINDOW SASH MAY NOT BE BURDENED WITH ADDITIONAL WEIGHT.

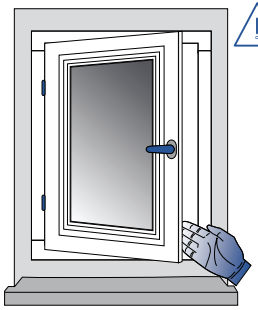




CAUTION!
WHERE SMALL CHILDREN OR MENTALLY HADICAPPED PERSONS HAVE ACCESS TO THE WINDOW, THE SASH HAS TO BE SAFEGUARDED AGAINST TURNING, FOR EXAMPLE WITH A CHILD-SAFETY LOCK OR KEY-LOCKABLE HANDLES.

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





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


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NOTES

ARX building hardware

- INSTALLATION INSTRUCTIONS,
- INSTRUCTIONS FOR USE,
- PRODUCT PORTFOLIO PRESENTATION,
- NOVELTIES.

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