

Roto NX

The Tilt&Turn hardware system for windows and balcony doors shaping the industry once again

Hinge side Power Hinge

Installation, maintenance and operation instructions for timber profiles



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1 General information

1.1 Version history

Version	Date	Changes
v0	03.2010	Publication
v1	03.05.2023	<p>T&T espagnolette, VT added → <i>from page 30</i></p> <p>Hardware overviews for resistance classes RC 1 N, RC 2 and RC 2 N added → <i>from page 28</i></p> <p>Incorporation of lever-operated espagnolette Plus → <i>from page 28</i></p> <p>Process for adjusting the height of the pivot rest and corner hinge changed → <i>from page 210</i></p> <p>Anti-slam device added → <i>from page 198</i></p> <p>Anti-jemmy device added → <i>from page 204</i></p> <p>Application diagrams changed → <i>from page 24</i></p> <p>Overview of positions of strikers and tilt strikers expanded → <i>from page 169</i></p>

1.2 Instructions

This manual contains important information, instructions, application diagrams (max. sash sizes and weights) and assembly instructions for the installation, maintenance and operation of hardware.

The information and instructions contained in this document refer to products belonging to the Roto hardware system named on the front page.

All steps must be completed in sequence.

The following documents apply in addition to these instructions:

- Roto NX catalogue: CTL_104
- Handles catalogue: CTL_1

The following guidelines also apply:

Gütegemeinschaft Schlösser und Beschläge e.V.

- Directive TDBK: Attachment of supporting fitting components for turn-only and tilt&turn fittings
- Directive VHBE: Hardware for windows and balcony doors – Guidelines/ advice for end-users
- Directive VHBH: Hardware for windows and balcony doors – Guidelines/ advice on the product and on liability

VFF (German Window and Facade Association)

- TLE.01: Correct handling of ready-to-install windows and external doors during transport, storage and installation
- WP.01: Maintenance of windows, facades and external doors – Maintenance, care and inspection – Information for sales
- WP.02: Maintenance of windows, facades and external doors – Maintenance, care and inspection – Measures and documents
- WP.03: Maintenance of windows, facades and external doors – Maintenance, care and inspection – Maintenance agreement

Additional guidelines

- Instructions and information issued by profile manufacturers, e.g. manufacturers of windows and balcony doors

- Instructions and information issued by screw manufacturers
- The applicable regulations, directives and national laws

Storing the instructions

These instructions are an important part of the product. The instructions must be stored so that they are always to hand.

Explanation of the markings

The manual uses the following markings for emphasis (e.g. in figures or instructions):

Marking	Meaning
	Sash
	Frame
	Drill holes, routing or screw positions
	Unaffected components / indirectly affected components
	Components, arrows or movements that have just been described
	Item number
[1]	Legend
[A]	Steps



INFO

Any dimensions without a unit in the instructions are given in millimetres (mm). Other units of measurement are clearly indicated by the presence of the differing unit.



INFO

Figures are provided in the right-hand version (DIN 107).

1.3 Symbols

Symbol	Meaning
■	First-level list
□	Second-level list
→	(Cross-)reference
▷	Result
▶	Unnumbered step
1.	Numbered step
a.	Numbered second-level step
⇒	Requirement

1.4 Pictographs

Symbol	Meaning
	Sash rebate width
	Sash rebate height

Symbol	Meaning
	Sash weight
	Timber

1.5 Product features

Symbol	Meaning
	Hardware axis
	Description
	Base
	Supporting pin
	Drill hole for supporting pin
	DIN left / right
	Corner drive, integrated
	Rebate clearance
	Rebate depth
	Sash rebate width
	Sash rebate height
	Sash weight
	Fixed handle height
	Centred / variable handle height
	Size
	Information

Symbol	Meaning
	Couplable
	Length
Nº	Material number
	Installation type
	Lifting mishandling device
	Surface
	Position
	Profile
	Number of locking cams
	Type of locking cams
	Bullet catch
	System
	Adjustment

1.6 Abbreviations

Abbreviation	Meaning
GC	Gasket compression
approx.	approximately
CTL	Catalogue
DIN L / R	DIN left / right
d _k	Screw head diameter
T&T	Tilt&Turn
BS	Backset
SRW	Sash rebate width
SRH	Sash rebate height
S.kg	Sash weight
HH	Handle height
BSec	Basic security
IMO	Installation instructions
Y	Yes
kg	Kilograms

Abbreviation	Meaning
KU	Couplable
Max.	Maximum
mm	Millimetres
CL	Centre lock
N	No
Nm	Torque in newton metres
LMD	Lifting mishandling device
RC	Resistance class
BC	Bullet catch
SEC	Security
ST	Striker
e.g.	For example

1.7 Target groups

The information in this document is directed at the following target groups:

Hardware dealers

The “hardware dealers” target group includes all companies and individuals that purchase hardware from hardware manufacturers for resale, without modifying or further processing the hardware.

Window and balcony door manufacturers

The “window and balcony door manufacturers” target group includes all companies and individuals that purchase hardware from hardware manufacturers or hardware dealers and further process the hardware by integrating it in windows and balcony doors.

Building element dealers or installation companies

The “building element dealers or installation companies” target group includes all companies and individuals that purchase windows and balcony doors from window and balcony door manufacturers for resale and for installation in construction projects, without modifying the windows or balcony doors.

Builders

The “builders” target group includes all companies and individuals who place orders for the manufacture of windows and balcony doors for installation in their construction projects.

End users

The “end users” target group includes all individuals who use the installed windows and balcony doors.

1.8 Target groups’ obligation to give instructions



INFO

Each target group must fulfil their obligation to give instructions in full.

Unless specified otherwise in the text below, documents and information can be passed on as a printed document, on a data storage device or via the Internet.

Responsibility of hardware dealers

Hardware dealers must pass the following documents on to the window and balcony door manufacturer:

- Catalogue
- Installation, maintenance and operation instructions
- Directive on attachment of supporting fitting components for turn-only and tilt&turn fittings (TBDK)
- Guidelines/advice on the product and on liability (VHBH)
- Guidelines/advice for end-users (VHBE)

Responsibility of the window and balcony door manufacturer

The window and balcony door manufacturer must pass the following documents on to building element dealers or the builder, even if a subcontractor (installation company) is involved:

- Installation, maintenance and operation instructions
- Directive on attachment of supporting fitting components for turn-only and tilt&turn fittings (TBDK)
- Guidelines/advice on the product and on liability (VHBH)
- Guidelines/advice for end-users (VHBE)

They must ensure that the end users are provided with the documents and information intended for them in printed format.

Responsibility of building element dealers and the installation company

Building element dealers must pass the following documents on to the builder, even if a subcontractor (installation company) is involved:

- Installation, maintenance and operation instructions (with a focus on hardware)
- Guidelines/advice on the product and on liability (VHBH)
- Guidelines/advice for end-users (VHBE)

Responsibility of the builder

The builder must pass the following documents on to the end user:

- Installation, maintenance and operation instructions (with a focus on hardware)
- Guidelines/advice for end-users (VHBE)

1.9 Copyright protection

The contents of this document are copyright-protected. This content can be used when working with the hardware. Any other use is not permitted without written permission of the manufacturer.

1.10 Limitation of liability

All information and instructions contained in this document have been compiled in consideration of the applicable standards and regulations, the latest developments in technology and many years of knowledge and experience.

The hardware manufacturer assumes no liability for damage caused by:

- Failure to comply with this document and all product-specific documents and other applicable directives (see the chapters entitled "Security" and "Stipulated use").

- Improper use / misuse (see the chapters entitled “Security” and “Stipulated use”).
- Insufficient invitation to tender, non-compliance with installation specifications and non-compliance with the application diagrams (where available).
- Increased contamination.

Claims made by third parties against the hardware manufacturer on account of damage resulting from misuse or failure to comply with the obligation to give instructions on the part of hardware dealers, window, door and balcony door manufacturers and building element dealers or the builder are passed on accordingly.

The obligations agreed in the delivery contract, the general terms and conditions, the hardware manufacturer’s terms and conditions of delivery and the legal provisions applicable when the contract was concluded shall apply.

The warranty only covers original Roto components.

We reserve the right to make technical changes as part of improvement to performance characteristics and further development.

1.11 Preserving the surface finish



ATTENTION

Surface treatments may cause property damage.

Surface treatments (e.g. painting and varnishing) on elements can damage components or prevent them from working properly.

- ▶ For masking, only use adhesive tape that does not damage the paint coats. Consult the manufacturer if in doubt.
- ▶ Protect components against direct contact with the surface treatment.
- ▶ Protect components against contamination.



ATTENTION

Using incorrect cleaning agents and sealing compounds may cause property damage.

Cleaning agents and sealing compounds may damage the surfaces of components and gaskets.

- ▶ Do not use aggressive or flammable liquids, acidic cleaners or abrasive cleaners.
- ▶ Only use mild, pH-neutral cleaning agents that have been diluted.
- ▶ Apply a thin protective film to the components, for example using a cloth soaked in oil.
- ▶ Avoid aggressive vapours (e.g. produced by formic acid, acetic acid, ammonia, amine compounds, ammonia compounds, aldehyde, carboic acid, chlorine, tannic acid) around the element.
- ▶ Do not use any acetic acid-crosslinking or acid-crosslinking sealing compounds or those with the aforementioned constituents as both direct contact with the sealing compound and its fumes can corrode the surface of the components.



ATTENTION

Contamination may cause property damage.

Contamination prevents components working properly.

- ▶ Remove deposits and contamination caused by construction materials (e.g. plaster, gypsum).
- ▶ Keep components free of deposits and contaminants.



ATTENTION

(Permanently) damp room air may cause property damage.

Damp room air can lead to mould growth and corrosion caused by condensation.

- ▶ Provide adequate ventilation for components, particularly during the construction phase.
 - ▶ Intensively air out the room several times per day by opening all elements for approximately 15 minutes. If intensive airing is not an option, place the elements in the tilt position and provide airtight masking inside the room, e.g. if there is fresh screed that cannot be walked on or must not be exposed to draughts. Discharge any humidity present in the room air to the outside using condensation dryers.
 - ▶ Establish a ventilation plan for more complex construction projects if necessary.
 - ▶ Provide adequate ventilation during holiday periods as well.
-



2 Security

This manual contains instructions relating to safety. The principal safety information in this chapter includes information and instructions relevant to the safe use or maintaining the safe condition of the product. Warning instructions that relate to handling warn of residual risks and are located before steps that are relevant to safety.

- Follow all of the instructions in order to prevent personal injury and property and environmental damage.

2.1 Presentation and structure of warning instructions

The warning instructions relate to individual actions and are structured as follows with a warning symbol:



DANGER

Nature and source of the danger.

Explanation and description of the danger and the implications.

- Measures to take to avert the danger.

2.2 Security levels of warning instructions

The warning instructions that relate to handling are identified differently according to the severity of the associated danger. The signal words and the associated warning symbols used are clarified below.



DANGER

Immediate risk of death or serious injuries.

- Observe these warning instructions to avoid personal injuries.



WARNING

Potential risk of death or serious injuries.

- Observe these warning instructions to avoid personal injuries.



CAUTION

Risk of injuries

- Observe these warning instructions to avoid personal injuries.



ATTENTION

Reference to property or environmental damage.

- Observe these warning instructions to avoid property or environmental damage.

2.3 Stipulated use

Turn-Only and Tilt&Turn hardware components are one-hand operation, Turn-Only and Tilt&Turn hardware components for windows and balcony doors in structural engineering. This hardware is used to move window sashes and balcony door sashes to a turned position by actuating a hand lever or a tilt position which is restricted by the scissor stay version. Turn-Only and Tilt&Turn hardware components may be used on vertically installed windows and balcony doors made of timber, PVC, aluminium or steel, or corresponding combinations of the aforementioned materials. Turn-Only and Tilt&Turn hardware components in the sense of this definition close windows and balcony door sashes or move them into various ventilation positions.

During the closing process, the gasket counter force must generally be overcome.

Stipulated use also includes compliance with all safety information and specifications contained in these instructions, the other applicable documents and the applicable regulations, directives and national laws.

2.3.1 Misuse

Any use and processing of the products that goes beyond or differs from the stipulated use is considered misuse and can lead to hazardous situations.



WARNING

Misuse may pose a risk of death!

Misuse and incorrect installation of hardware can lead to serious injuries.

- ▶ Only use hardware combinations that have been approved by the hardware manufacturer.
- ▶ Only use original accessories or those that have been approved by the hardware manufacturer.
- ▶ Note the product-related documentation → *from page 9*.

2.3.2 Usage restriction

Opened sashes in windows and balcony doors, and windows and balcony door sashes that are unlocked or placed in ventilation positions, only have a shielding effect. They do not meet the following requirements:

- Joint sealing
- Driving rain impermeability
- Sound insulation
- Thermal insulation
- Burglary inhibition

2.4 Stipulated use for end users

For windows or balcony doors with Turn-Only or Tilt&Turn hardware, windows or balcony door sashes can be moved to a turned position by operating a hand lever or to a tilt position restricted by the scissor stay version.

When closing a sash and locking the hardware, the gasket counter force must generally be overcome.



WARNING

Opening and closing sashes in an uncontrolled manner may pose a risk of death!

Opening and closing the sash in an uncontrolled manner may lead to serious injuries.

- ▶ Ensure that the sash does not collide with the frame, opening restrictor (buffer) or other sashes when it is moved into the fully open or closed position.
- ▶ Ensure that the sash is slowly guided by hand throughout its entire movement range, until it has been brought into a fully closed or opening position.



ATTENTION

Opening and closing sashes in an uncontrolled manner may result in property damage.

Opening and closing the sash in an uncontrolled manner may cause the element to malfunction.

- ▶ Ensure that the sash does not collide with the frame, opening restrictor (buffer) or other sashes when it is moved into the fully open or closed position.
- ▶ Ensure that the sash is slowly guided by hand throughout its entire movement range, until it has been brought into a fully closed or opening position.

Any use and processing of the products that goes beyond or differs from the stipulated use is considered misuse and can lead to hazardous situations.

No claims of any kind can be made on account of damage resulting from failure to comply with the stipulated use.

2.4.1 Misuse

Any use and processing of the products that goes beyond or differs from the stipulated use is considered misuse and can lead to hazardous situations.



WARNING

Misuse may pose a risk of death!

Misuse and incorrect installation of hardware can lead to serious injuries.

- ▶ Only use hardware combinations that have been approved by the hardware manufacturer.
- ▶ Only use original accessories or those that have been approved by the hardware manufacturer.
- ▶ Note the product-related documentation → *from page 9*.

2.5 Basic safety information

The following hazards may arise when handling the product:

2.5.1 Installation

Incorrect installation poses an immediate risk of death or serious injuries.

Incorrect installation or assembly of hardware can lead to hazardous situations or property damage. Depending on the height of the fall, this can result in serious to life-threatening injuries and glass breakage.

- ▶ Only use hardware combinations that have been approved by the hardware manufacturer.
- ▶ Only use original accessories or those that have been approved by the hardware manufacturer.
- ▶ Always have installation performed by a specialist company.

Heavy loads pose a risk of injury.

Lifting and carrying heavy loads may lead to injuries in the event of a fall or physical overexertion.

- ▶ Note the applicable accident prevention regulations.

- ▶ Transport heavy loads with two people and use suitable transportation means (such as an industrial truck).

Physical overexertion may be harmful to health.

Moving heavy loads for extended periods leads to physical injury in the long term.

- ▶ When carrying and lifting by hand, comply with a maximum weight of 25 kg for men and 10 kg for women.
- ▶ Carry and lift even small loads with an ergonomically correct posture.

2.5.2 Use

Falls from open windows and balcony doors present an immediate risk of death and pose the risk of serious injuries.

Opened sashes of windows and balcony doors create a danger zone. Depending on the height of the fall, this can result in serious to life-threatening injuries and glass breakage.

- ▶ Take care when in the vicinity of open windows and balcony doors.
- ▶ Keep children and anyone unable to understand the risks away from the hazardous area.

Trapping body parts in the opening between sash and frame may lead to serious injuries.

Gripping between the sash and frame when closing windows and balcony doors poses the risk of crushing injuries.

- ▶ When closing windows and balcony doors, never grip between the sash and frame and always exercise caution.
- ▶ Keep children and anyone unable to understand the risks away from the hazardous area.

Opening and closing leaves improperly poses the risk of injury and property damage.

Incorrect opening and closing of leaves can result in serious injuries and substantial property damage.

- ▶ When moving the sash, ensure that it will not slam against the frame or other leaves once fully opened or closed.
- ▶ Ensure that the sash is slowly guided by hand throughout its entire movement range, until it has been brought into a fully closed or opening position.
- ▶ When closing a sash and locking the hardware, the gasket counter force must be overcome.

Misuse poses a risk of injury and property damage.

Misuse can lead to hazardous situations and may destroy the hardware, frame materials or other individual components within the windows or balcony doors.

- ▶ Do not introduce any obstacles in the opening area between the frame and window or balcony door sashes.
- ▶ Do not place additional loads on windows and balcony door sashes.



- ▶ Refrain from intentionally or uncontrollably slamming or pushing the window or balcony door sash against the window reveal or the opening restrictor.

Improper maintenance poses the potential risk of injury and property damage.

Windows and balcony doors, including the hardware, require expert maintenance (care, cleaning, maintenance and inspection) in order to guarantee their proper condition and safe use.

- ▶ Keep the hardware free of deposits and contaminants.
- ▶ Carry out care and cleaning tasks as specified in these instructions.
- ▶ Always have regular maintenance, adjustment and repair work carried out by a specialist company.

2.5.3 Ambient conditions

Physical and chemical influences may result in property damage.

Hardware components can be permanently damaged in a saline, aggressive or corrosive environment to the point that they can no longer function.

- ▶ Do not use the hardware components in a saline, aggressive or corrosive environment.
- ▶ Carry out care and cleaning tasks as specified in these instructions.
- ▶ Corrosion protection must be inspected by an authorised specialist company as part of regular maintenance work.

Moisture may cause property damage.

Depending on the outside temperature, relative humidity of the room air and installation situation of the windows and balcony doors, a temporary build-up of condensation may occur. This can lead to corrosion on the hardware and mould growth on the frame or wall. Ambient conditions that are too damp, particularly during the construction phase, can lead to timber elements warping.

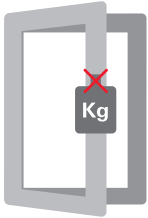
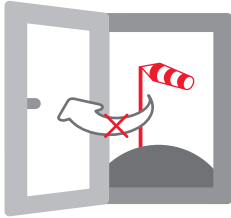
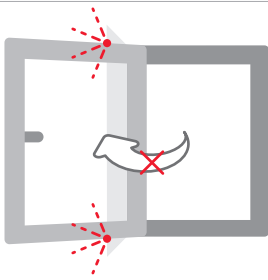
- ▶ Avoid preventing the circulation of air (e.g. due to deep reveals, curtains and unfavourable positioning of heaters or the like).
- ▶ Intensively air out the room several times per day.
Open all windows and balcony doors for approximately 15 minutes so that the air in the room can be completely replaced.
- ▶ Provide adequate ventilation during holiday periods as well.
- ▶ Create a ventilation plan for construction projects if necessary.

2.6 Operation

The safety symbols and markings and the associated warning instructions explained below apply to the safe operation of windows and balcony doors.

Safety symbols and markings

Symbol	Meaning
	<p>Falls from open windows and balcony doors present an immediate risk of death and pose the risk of serious injuries.</p> <p>Take care when in the vicinity of open windows and balcony doors.</p> <p>Keep children and anyone unable to understand the risks away from the hazardous area.</p>

Symbol	Meaning
	<p>Trapping body parts in the opening between sash and frame may lead to serious injuries.</p> <p>When closing windows and balcony doors, never grip between the sash and frame and always exercise caution.</p> <p>Keep children and anyone unable to understand the risks away from the hazardous area.</p>
	<p>Placing additional loads on the sash may lead to minor injuries and property damage.</p> <p>Avoid placing additional loads on the sash.</p>
	<p>The impact of wind may lead to minor injuries and property damage.</p> <p>Avoid exposing the open sash to wind.</p> <p>Close and lock the window and balcony door sash in windy or draughty conditions.</p>
	<p>Introducing obstacles into the opening between sash and frame may result in minor injuries and property damage.</p> <p>Avoid introducing obstacles into the opening between sash and frame.</p>
	<p>Pressing the sash against the edge of an opening (reveal) may pose a risk of minor injuries and cause property damage</p> <p>Refrain from pressing the sash against the edge of an opening (reveal).</p>



3 Information on the product

3.1 General hardware characteristics

- High loads up to 300 kg.
- Simple adjustment options for lateral and height adjustment; additional gasket compression adjustment via:
 - E locking cam: gasket compression adjustable eccentric cam
 - P locking cam: gasket compression adjustable security eccentric cam
 - V locking cam: gasket compression and height adjustable security eccentric cam
- Link-guided, securely riveted stay arm, as standard with
 - Integrated anti-slam device
 - Tilt depth restriction (80 mm)
 - Safeguard against incorrect operation in the tilt position (Tilt&Turn version only)
- No additional stay arm required
- Form-fitting "Clip&Fit" connection.
- High-quality Roto Sil surface (matt silver) for maximum corrosion resistance (DIN EN 13126 / 8 and free from chromium VI compounds).
In combination with Roto Sil, Roto Sil Level 6 is an advanced standard for connection components subject to high stress, such as rivets, bolts and sliding elements.
- Hinge side available in silver (powder coating).
- Certified in accordance with QM 328.
- Ten-year warranty for the functionality of the hardware.

3.2 General information

Hardware functional safety

The following points must be noted in order to ensure the functional safety of the hardware at all times:

1. Correct installation of hardware components in accordance with the installation instructions.
2. Correct installation of elements during window installation.
3. The window manufacturer must pass the maintenance and operation instructions and the product liability guidelines (if necessary) on to the user.
4. The hardware as a whole may only consist of original Roto system components. The use of components from other manufacturers excludes any liability.

Product liability regulations

Electrogalvanised and passivated steel fenestration screws are to be used to fasten the hardware components.

The window manufacturer must ensure that the hardware components are adequately secured; the screw manufacturer must be involved if necessary.

Do not use any acid cross-linked sealing compounds that could lead to corrosion of the hardware components. The spacer block guidelines for glazing methods must be complied with.

Product liability – liability exclusion

The hardware manufacturer is not liable for malfunctions or damage to the hardware, or to windows and balcony doors equipped with the hardware, if this has been caused by insufficient invitation to tender or failure to comply with the installation specifications and application diagrams, or if the hardware has been subjected to increased levels of dirt.

The warranty only covers original Roto components.

Profile classification – application ranges

The individual application diagrams must strictly be complied with.

When determining the maximum permitted sash formats and sash weights, the values specified by the profile manufacturers and system owners must not be exceeded either.

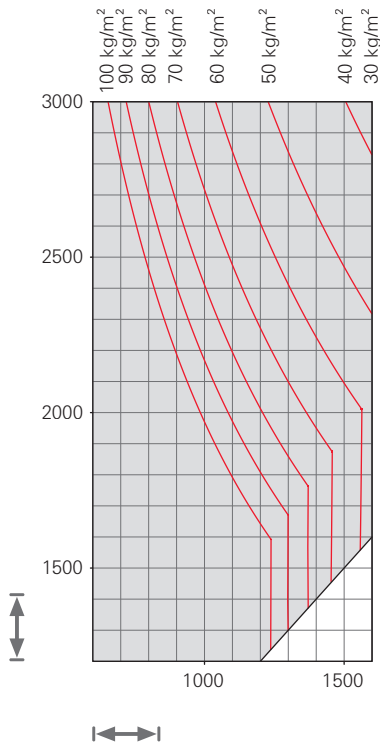
3.3 Application diagrams

3.3.1 Tilt&Turn hardware for rectangular windows



INFO

For information on using and reading application diagrams, e.g. for interpolation (calculating missing intermediate values), see BRO_347 (Roto application diagrams).



= Impermissible application range

Test and calculation principles:

Hardware in accordance with EN 13126 8:2017 class H3

Additional loads in accordance with EN 14608 are not taken into consideration.

Requirements for using the application diagram:

Evidence on the attachment of load-bearing components to the window system by the window manufacturer in accordance with the TBDK table with the following forces:

- on the stay bearing with 3900 N
- on the pivot rest with 5780 N

Comply with the following values for all profile systems:

Deductible dimension of glass $C_G \geq 28$ mm

Profile weight $PW \leq 3.25$ kg/m

The specifications in the application diagram refer to the glass weight in kg/m².

1 mm/m² glass thickness ≈ 2.5 kg

Application range		
	Sash rebate width	600 – 1600 mm
	Sash rebate height	1200 – 3000 mm
	Sash weight	max. 200 kg



INFO

Observe directive TBDK for tractive force values as a function of the sash weights.

Further information can be found at www.beschlagindustrie.de.

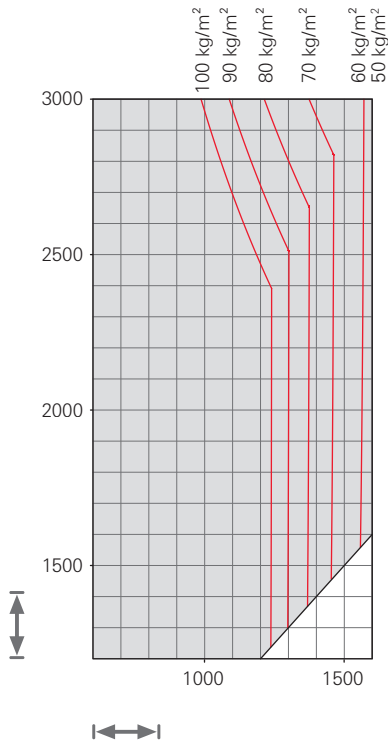


3.3.2 Turn-Only hardware for rectangular windows



INFO

For information on using and reading application diagrams, e.g. for interpolation (calculating missing intermediate values), see BRO_347 (Roto application diagrams).



□ = Impermissible application range

Test and calculation principles:

Hardware in accordance with EN 13126 8:2017 class H3

Additional loads in accordance with EN 14608 are not taken into consideration.

Requirements for using the application diagram:

Evidence on the attachment of load-bearing components to the window system by the window manufacturer in accordance with the TBDK table with the following forces:

- on the stay bearing with 3900 N
- on the pivot rest with 8660 N

Comply with the following values for all profile systems:

Deductible dimension of glass $C_G \geq 28$ mm

Profile weight $PW \leq 3.25$ kg/m

The specifications in the application diagram refer to the glass weight in kg/m².

1 mm/m² glass thickness ≈ 2.5 kg

Application range		
	Sash rebate width	400 – 1600 mm
	Sash rebate height	1200 – 3000 mm
	Sash weight	max. 300 kg



INFO

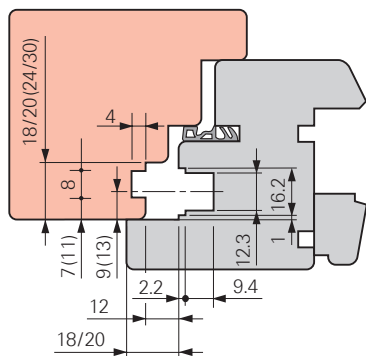
Observe directive TBDK for tractive force values as a function of the sash weights.

Further information can be found at www.beschlagindustrie.de.

3.4 Groove and rebate dimension systems

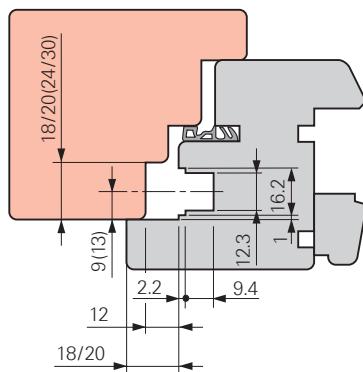
3.4.1 Turn-Only / Tilt&Turn windows

Without overlap gasket



System

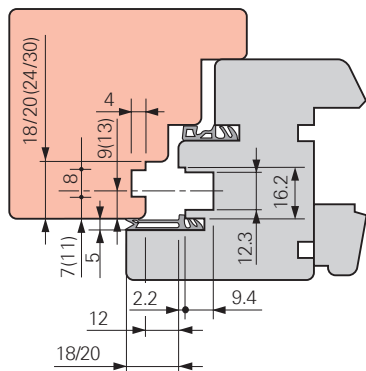
12 / 18-9, 12 / 20-9, Euro-groove 7 / 8
12 / 18-13, 12 / 20-13, Euro-groove 11 / 8



System

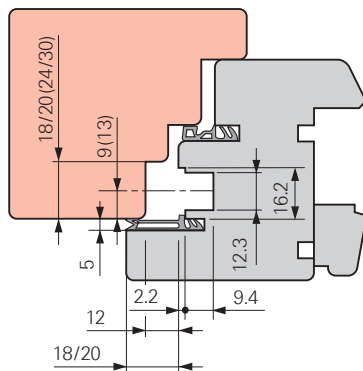
12 / 18-9, 12 / 20-9, Euro-rebate 18 / 20
12 / 18-13, 12 / 20-13, Euro-rebate 24 / 30

With overlap gasket



System

12 / 18-9, 12 / 20-9, Euro-groove 7 / 8
12 / 18-13, 12 / 20-13, Euro-groove 11 / 8

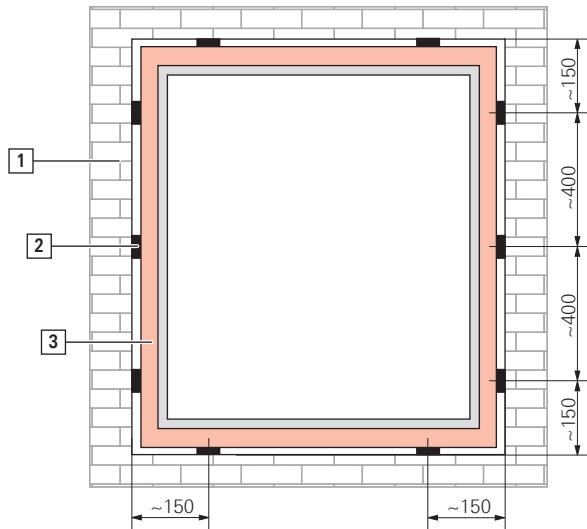


System

12 / 18-9, 12 / 20-9, Euro-rebate 18 / 20
12 / 18-13, 12 / 20-13, Euro-rebate 24 / 30



3.5 Mounting suggestion for security windows



- [1] Brickwork
- [2] Spacer blocks
- [3] Frame



INFO

Attach spacer blocks in the vicinity of the screw fixings for the security strikers.

Burglar inhibiting windows in accordance with DIN EN 1627–1630 may only be designated as such if installation is performed in accordance with the specified standard in all points.

4 Hardware overviews

The hardware overviews on the following pages are a recommendation on the part of Roto Frank Fenster- und Türtechnologie GmbH.

The basic page layout in the hardware overviews chapter firstly shows examples of the combination of individual hardware components, and the associated parts list can be seen on the following pages.

Additional combinations of hardware components can be found in the catalogue.

The item numbers in the squares link the hardware overview to the parts list.

The actual composition of the hardware depends on:

- the width of the element
- the height of the element
- the weight of the element
- the resistance class
- the profile system

Application range

The applicable application range [A] depends on the opening type and resistance class. The application range of the individual components [B] may differ from the applicable application range [A].

Anwendungsbereich

FFB: 290 - 1600 mm

[A] — **FFH:** 430 - 2800 mm

FG: max. 150 kg

[1] DK-Getriebe KSR – Griffsitz konstant, Dornmaß 15 mm

								Nº
[B] —	280 – 570	120	460	J	N	–	–	742199
	511 – 710	170	600	J	J	–	–	795324
	601 – 800	263	690	N	J	–	–	619591
	801 – 1000	413	890	N	J	1	E	619592
	1001 – 1200	513	1090	N	J	1	E	619593
	1201 – 1400	563	1290	N	J	1	E	619594
	1401 – 1600	563	1490	N	J	2	E	619595
	1601 – 1800	563	1690	N	J	2	E	619596
	1601 – 1800	1000	1690	N	J	2	E	838345
	1801 – 2000	1000	1890	N	J	2	E	794637
	2001 – 2200	1000	2090	N	J	3	E	794638
	2201 – 2400	1000	2290	N	J	3	E	794639

Example

The highlighted T&T espagnolette can generally be used from a SRH of min. 280 mm [B]. With this opening type and resistance class, elements are only allowed to be constructed from an SRH of 430 mm [A] and above. The highlighted T&T espagnolette is in the specified range and can therefore be installed.

**INFO****Resistance classes**

- The RC 1 N, RC 2, RC 2 N and RC 3 resistance classes refer to the entire system.
- The hardware combinations shown in the hardware overviews are recommendations.
- The hardware complies with the corresponding resistance classes in the required system tests.
- However, the resistance classes are only complied with if all of the other components in the system (e.g. profile system, reinforcement, glass, etc.) are also designed for this.
- Steel security locking components must generally be used in systems with a 9 mm hardware axis.

Profile-related frame components and general sets are listed in additional chapters.

Recommended handles can be found in the Roto Handles catalogue.

Determine the quantity of required hardware components with Roto Con Orders.

**INFO****Roto Con Orders**

Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview, can be ordered from your responsible sales representative.

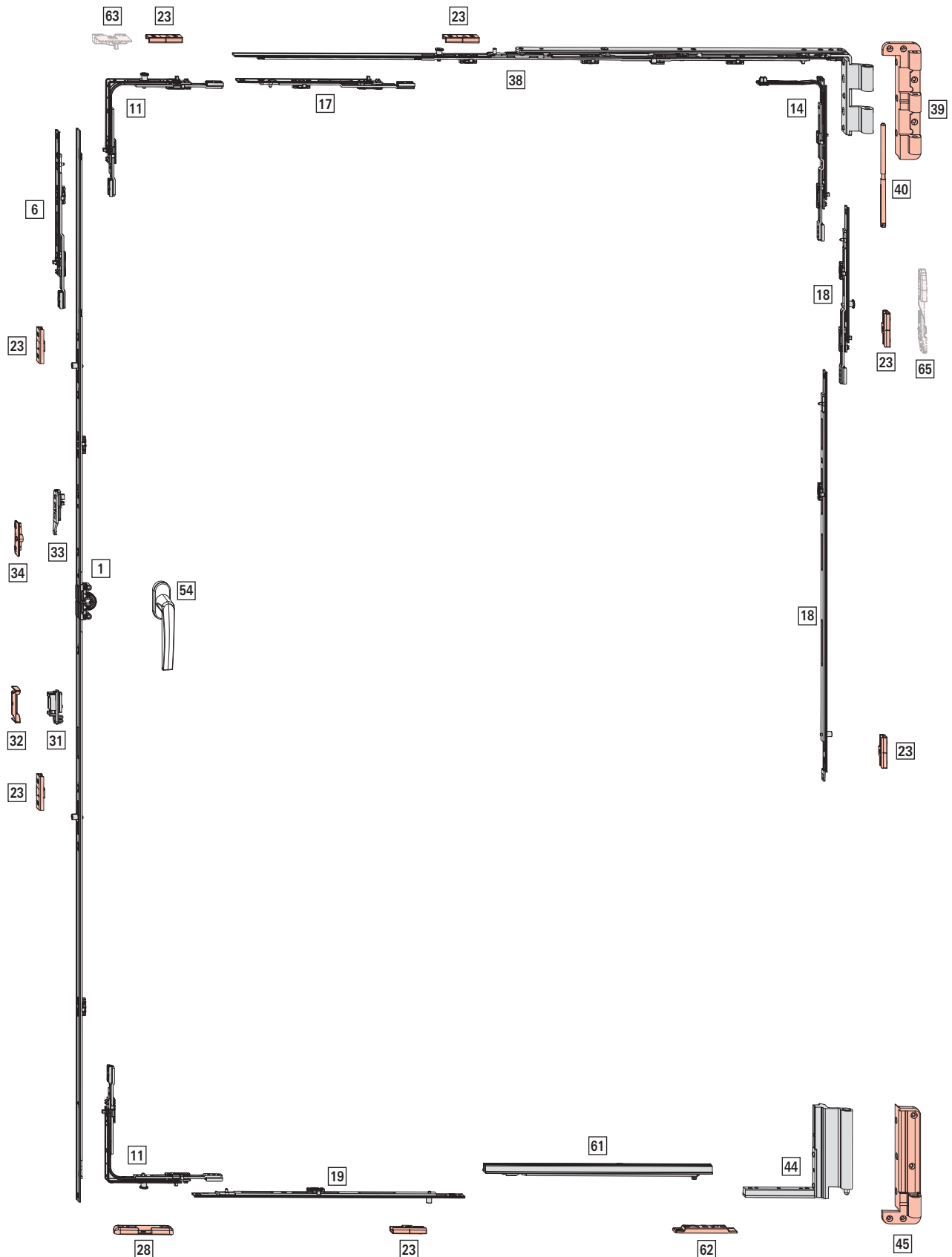


www.roto-frank.com

4.1 T&T espagnolette, VT – fixed handle height

4.1.1 Tilt&Turn hardware

4.1.1.1 Basic security



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[1] T&T espagnolette, VT – fixed handle height, backset 15 mm**

							Nº
1201 – 1400	563	1290	N	Y	1	E	619594
1401 – 1600	563	1490	N	Y	2	E	619595
1601 – 1800	563	1690	N	Y	2	E	619596
1601 – 1800	1000	1690	N	Y	2	E	838345
1801 – 2000	1000	1890	N	Y	2	E	794637
2001 – 2200	1000	2090	N	Y	2	E	795280
2201 – 2400	1000	2290	N	Y	2	E	795282
2201 – 2400	1000	2290	N	Y	3	E	794639

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880

				Nº
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141**[28] Tilt striker → from page 139****[31] Bullet catch sash component (optional SRH ≥ 1601 mm)**

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component
→ from page 145**[38] T&T sash stay set, S.kg max. 200 kg**

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986

					Nº
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

Optional**[63] Night vent → from page 147****INFO**

Only for use in conjunction with P or V cam.

[65] Anti-slam device

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

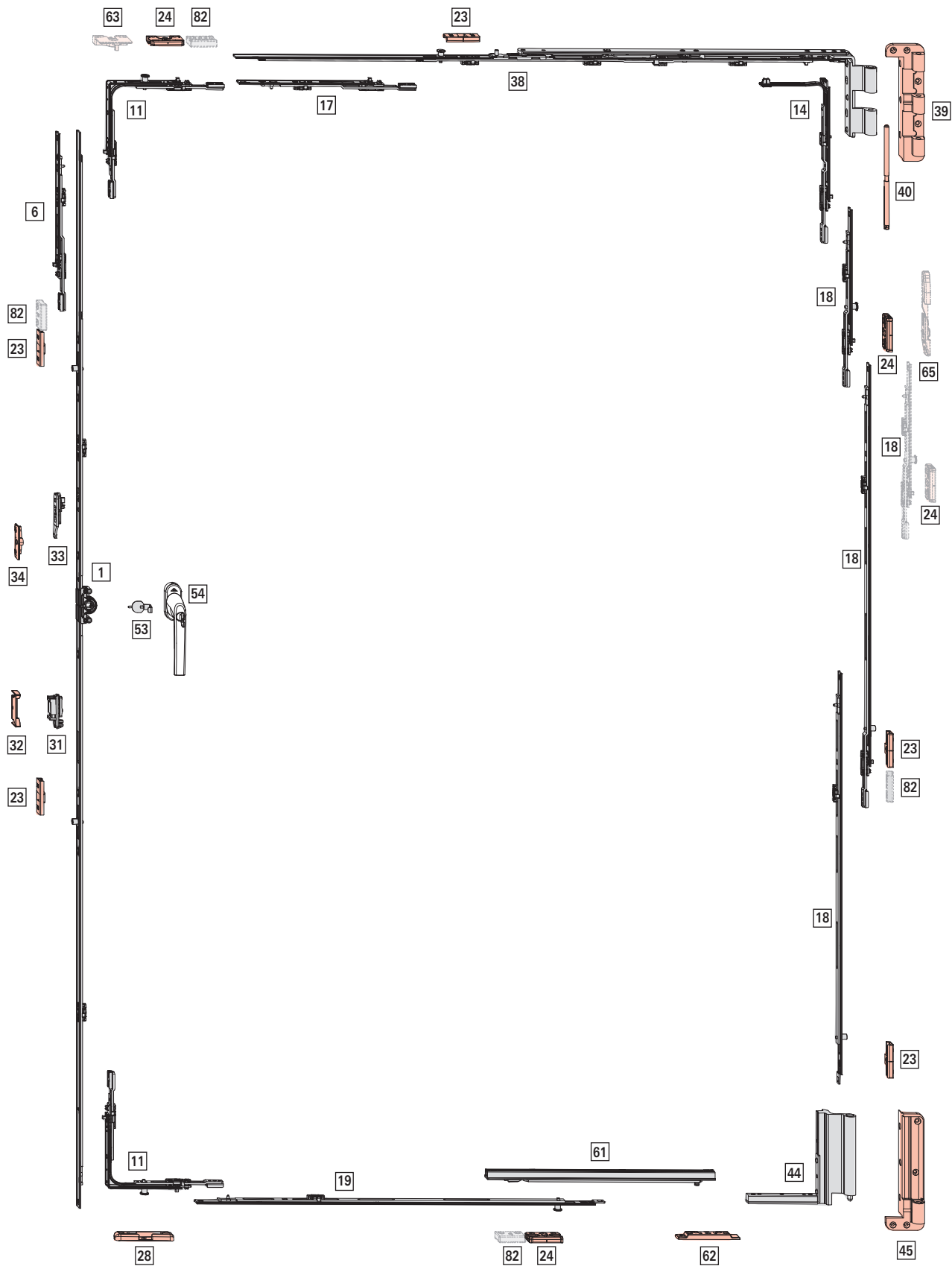
Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778



4.1.1.2 RC 1 N



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[1] T&T espagnolette, VT – fixed handle height, backset 15 mm**

							Nº
1201 – 1400	563	1290	N	Y	1	E	619594
1401 – 1600	563	1490	N	Y	2	E	619595
1601 – 1800	563	1690	N	Y	2	E	619596
1601 – 1800	1000	1690	N	Y	2	E	838345
1801 – 2000	1000	1890	N	Y	2	E	794637
2001 – 2200	1000	2090	N	Y	2	E	795280
2201 – 2400	1000	2290	N	Y	2	E	795282
2201 – 2400	1000	2290	N	Y	3	E	794639

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

					Nº
200	Y	–	–	–	308267
400	Y	1	E	–	280346
600	Y	1	E	–	255282

Size-specific combinations:

					Nº
2401 – 2600	200 KU	–	–	–	308267
2601 – 2800	400 KU	1	E	–	280346
2801 – 3000	600 KU	1	E	–	255282

[11] Standard corner drive

		Nº
1	P	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

					Nº
200	Y	–	–	–	308267
400	Y	1	E	–	280346
600	Y	1	E	–	255282

Size-specific combinations:

					Nº
1001 – 1200	200 KU	–	–	–	308267
1201 – 1400	400 KU	1	E	–	280346
1401 – 1600	600 KU	1	E	–	255282

[18] Multipart centre lock – standard, vertical

					Nº
200	Y	1	P	–	622880
400	N	1	E	–	255280
600	N	1	E	–	255281

					Nº
600	Y	1	E	–	255282

Size-specific combinations:

without anti-slam device

					Nº
1200 – 1800	200 KU	1	P	–	622880
	600	1	E	–	255281
1801 – 2600	200 KU	1	P	–	622880
	600 KU	1	E	–	255282
	600	1	E	–	255281
2601 – 3000	200 KU	1	P	–	622880
	600 KU	1	E	–	255282
	600 KU	1	E	–	255282
	600	1	E	–	255281

with anti-slam device

					Nº
1200 – 1800	200 KU	1	P	–	622880
	200 KU	1	P	–	622880
	400	1	E	–	255280
1801 – 2600	200 KU	1	P	–	622880
	200 KU	1	P	–	622880
	600 KU	1	E	–	255282
	400	1	E	–	255280
2601 – 3000	200 KU	1	P	–	622880
	200 KU	1	P	–	622880
	600 KU	1	E	–	255282
	600 KU	1	E	–	255282
	400	1	E	–	255280

[19] Centre lock, multipart – standard, horizontal – bottom

					Nº
200	N	1	P	–	255284
400	N	1	P	–	255285
600	N	1	P	–	255286
600	Y	1	E	–	255282

Size-specific combinations:

Without turn restrictor

					Nº
600 – 800	200	1	P	–	255284
801 – 1000	400	1	P	–	255285
1001 – 1200	600	1	P	–	255285
1201 – 1400	600 KU	1	E	–	255282
	200	1	P	–	255284

				Nº
1401 – 1600	600 KU	1	E	255282
	400	1	P	255285

With turn restrictor

				Nº
801 – 1000	200	1	P	255284
1001 – 1200	400	1	P	255285
1201 – 1400	600	1	P	255286
1401 – 1600	600 KU	1	E	255282
	200	1	P	255284

[23] Striker → from page 141**[24] Security striker → from page 142****[28] Tilt striker → from page 139****[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component → from page 145**[38] T&T sash stay set, S.kg max. 200 kg**

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Nº

Screw-on

264625

Optional**[63] Night vent → from page 147****INFO**

Only for use in conjunction with P or V cam.

[65] Anti-slam device

Nº

Left

823439

Right

823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

Nº

Support plate for anti-slam device

808778

[82] Anti-jemmy device

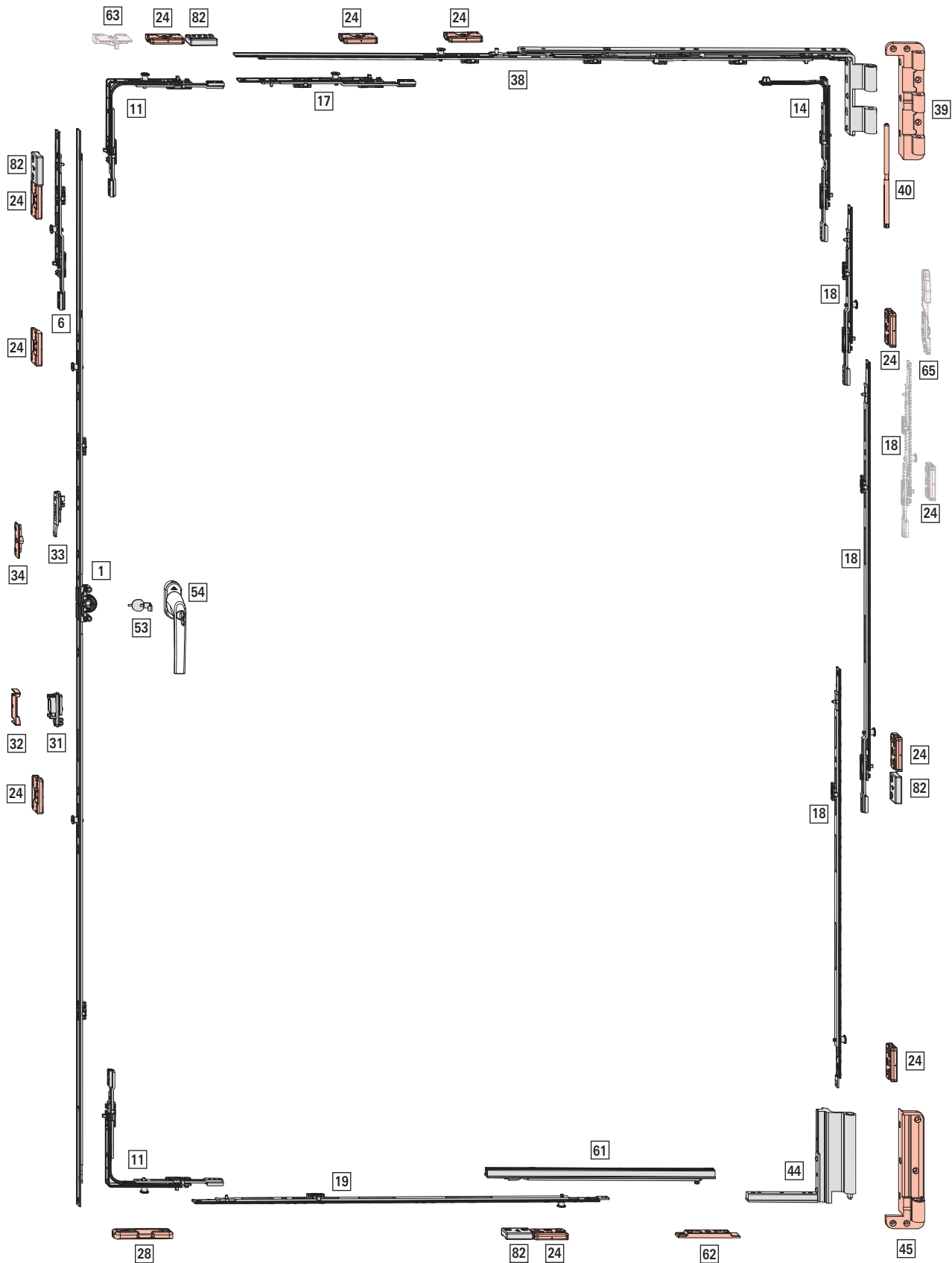
Nº

13

From rebate depth 24 mm

792786

4.1.1.3 RC 2 / RC 2 N





Application range

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

								Nº
1201 – 1400	563	1290	N	Y	1	V		626544
1401 – 1600	563	1490	N	Y	2	V		626575
1601 – 1800	563	1690	N	Y	2	V		626576
1601 – 1800	1000	1690	N	Y	2	V		838324
1801 – 2000	1000	1890	N	Y	2	V		794641
2001 – 2200	1000	2090	N	Y	3	V		794642
2201 – 2400	1000	2290	N	Y	3	V		794643

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

						Nº
200	Y	1	V			337708
400	Y	1	V			337710
600	Y	1	V			337711

Size-specific combinations:

						Nº
2401 – 2600	200 KU	1	V			337708
2601 – 2800	400 KU	1	V			337710
2801 – 3000	600 KU	1	V			337711

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

						Nº
200	Y	1	V			337708
400	Y	1	V			337710
600	Y	1	V			337711

Size-specific combinations:

						Nº
1001 – 1200	200 KU	1	V			337708
1201 – 1400	400 KU	1	V			337710
1401 – 1600	600 KU	1	V			337711

[18] Multipart centre lock – standard, vertical

						Nº
200	N	1	V			296853
200	Y	1	V			337708
400	N	1	V			296854
600	N	1	V			296855

				Nº
600	Y	1	V	337711

Size-specific combinations:

without anti-slam device

						Nº
1200 – 1400	200 KU	1	V			337708
	600	1	V			296855
1401 – 1600	200 KU	1	V			337708
	600 KU	1	V			337711
	200	1	V			296853
1601 – 1800	200 KU	1	V			337708
	600 KU	1	V			337711
	400	1	V			296854
1801 – 2000	200 KU	1	V			337708
	600 KU	1	V			337711
	600	1	V			296855
2001 – 2200	200 KU	1	V			337708
	600 KU	1	V			337711
	600 KU	1	V			337711
	200	1	V			296853
2201 – 2400	200 KU	1	V			337708
	600 KU	1	V			337711
	600 KU	1	V			337711
	400	1	V			296854
2401 – 2600	200 KU	1	V			337708
	600 KU	1	V			337711
	600 KU	1	V			337711
	600	1	V			296855
2601 – 2800	200 KU	1	V			337708
	600 KU	1	V			337711
	600 KU	1	V			337711
	600 KU	1	V			337711
	200	1	V			296853
2801 – 3000	200 KU	1	V			337708
	600 KU	1	V			337711
	600 KU	1	V			337711
	600 KU	1	V			337711
	400	1	V			296854

with anti-slam device

						Nº
1200 – 1400	200 KU	1	V			337708
	200 KU	1	V			337708
	400	1	V			296854
1401 – 1600	200 KU	1	V			337708
	200 KU	1	V			337708
	600	1	V			296855

				Nº
1601 – 1800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1801 – 2000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
2001 – 2200	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2201 – 2400	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2401 – 2600	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2601 – 2800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:
Without turn restrictor

				Nº
600 – 690	200	1	V	296853
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855
1091 – 1290	600 KU	1	V	337711
	200	1	V	296853

				Nº
1291 – 1490	600 KU	1	V	337711
	400	1	V	296854
1491 – 1600	600 KU	1	V	337711
	600	1	V	296855

With turn restrictor

				Nº
800 – 1000	200	1	V	296853
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855
1401 – 1600	600 KU	1	V	337711
	200	1	V	296853

[24] Security striker → from page 142

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component → from page 145

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
					Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
					Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
					Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
					Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
					Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
					Right	562006

**[39] Stay bearing**

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Nº

Screw-on

264625

[82] Anti-jemmy device

Nº

13

From rebate depth 24 mm

792786

Optional**[63] Night vent → from page 147****INFO**

Only for use in conjunction with P or V cam.

[65] Anti-slam device

Nº

Left

823439

Right

823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

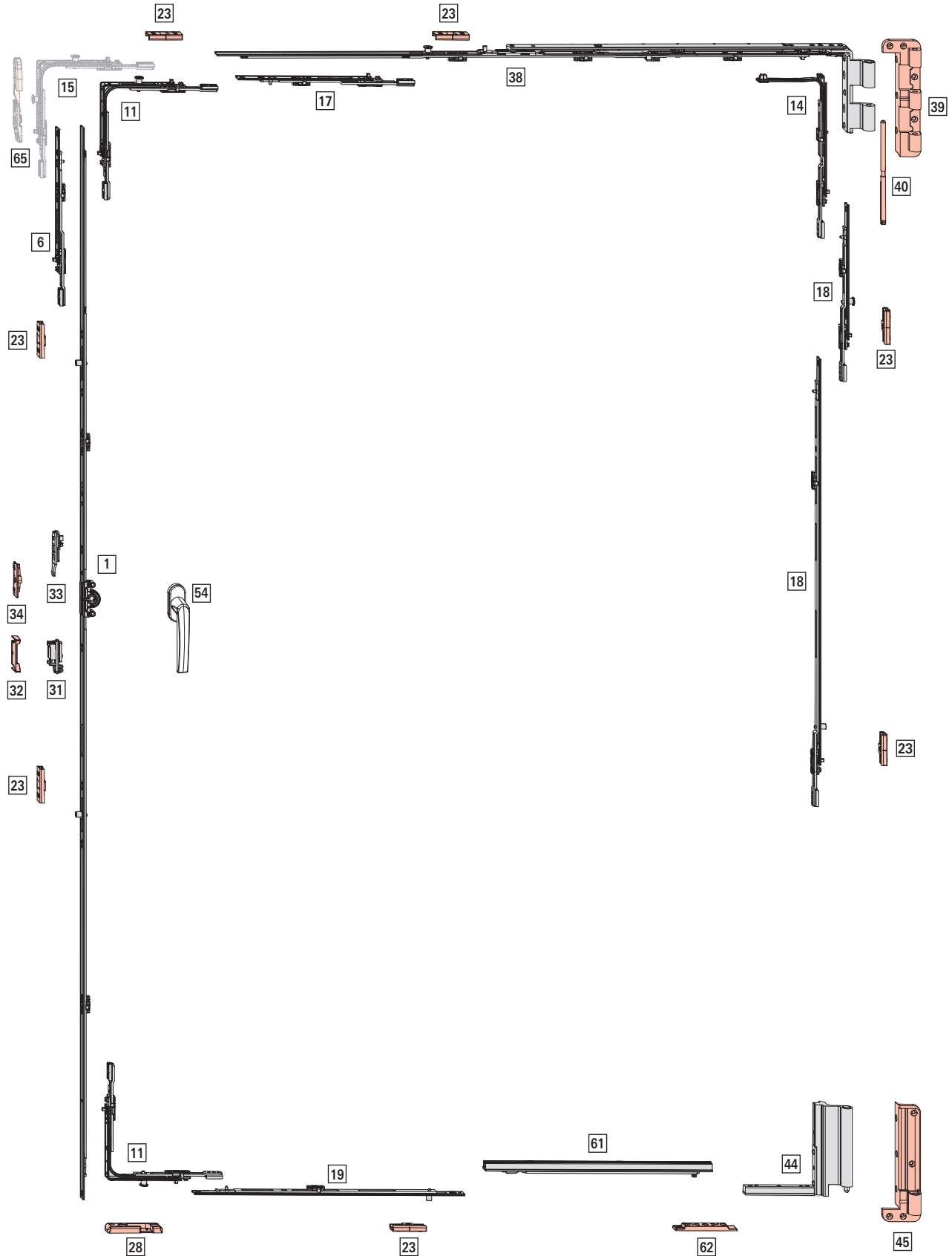
Nº

Support plate for anti-slam device

808778

4.1.2 TiltFirst hardware

4.1.2.1 Basic security



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[1] T&T espagnolette, VT – fixed handle height, backset 15 mm**

								Nº
1201 – 1400	563	1290	N	Y	1	E		619594
1401 – 1600	563	1490	N	Y	2	E		619595
1601 – 1800	563	1690	N	Y	2	E		619596
1601 – 1800	1000	1690	N	Y	2	E		838345
1801 – 2000	1000	1890	N	Y	2	E		794637
2001 – 2200	1000	2090	N	Y	2	E		795280
2201 – 2400	1000	2290	N	Y	2	E		795282
2201 – 2400	1000	2290	N	Y	3	E		794639

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880

				Nº
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141**[28] Tilt striker TiltFirst → from page 140****[31] Bullet catch sash component (optional SRH ≥ 1601 mm)**

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component → from page 145

[38] T&T sash stay set, TiltFirst

						Nº
12/18-9 12/20-9	600 – 800	350	29	12	Left	602043
12/18-9 12/20-9	600 – 800	350	29	12	Right	602044
12/18-9 12/20-9	801 – 1000	500	29	12	Left	602045
12/18-9 12/20-9	801 – 1000	500	29	12	Right	602046
12/18-13 12/20-13	600 – 800	350	29	12	Left	602039
12/18-13 12/20-13	600 – 800	350	29	12	Right	602040
12/18-13 12/20-13	801 – 1000	500	29	12	Left	602041
12/18-13 12/20-13	801 – 1000	500	29	12	Right	602042

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1



INFO

Use the lockable TiltFirst handle for child safe windows, see CTL_1.

[61] Turn restrictor 335, sash component

		Nº
12	Selectable final position	260565



INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

Optional

[15] Corner drive, standard (security)

		Nº
2	V	260274

[65] Anti-slam device

	Nº
Left	823439
Right	823438



INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.



INFO

Only for use in conjunction with P or V cam.

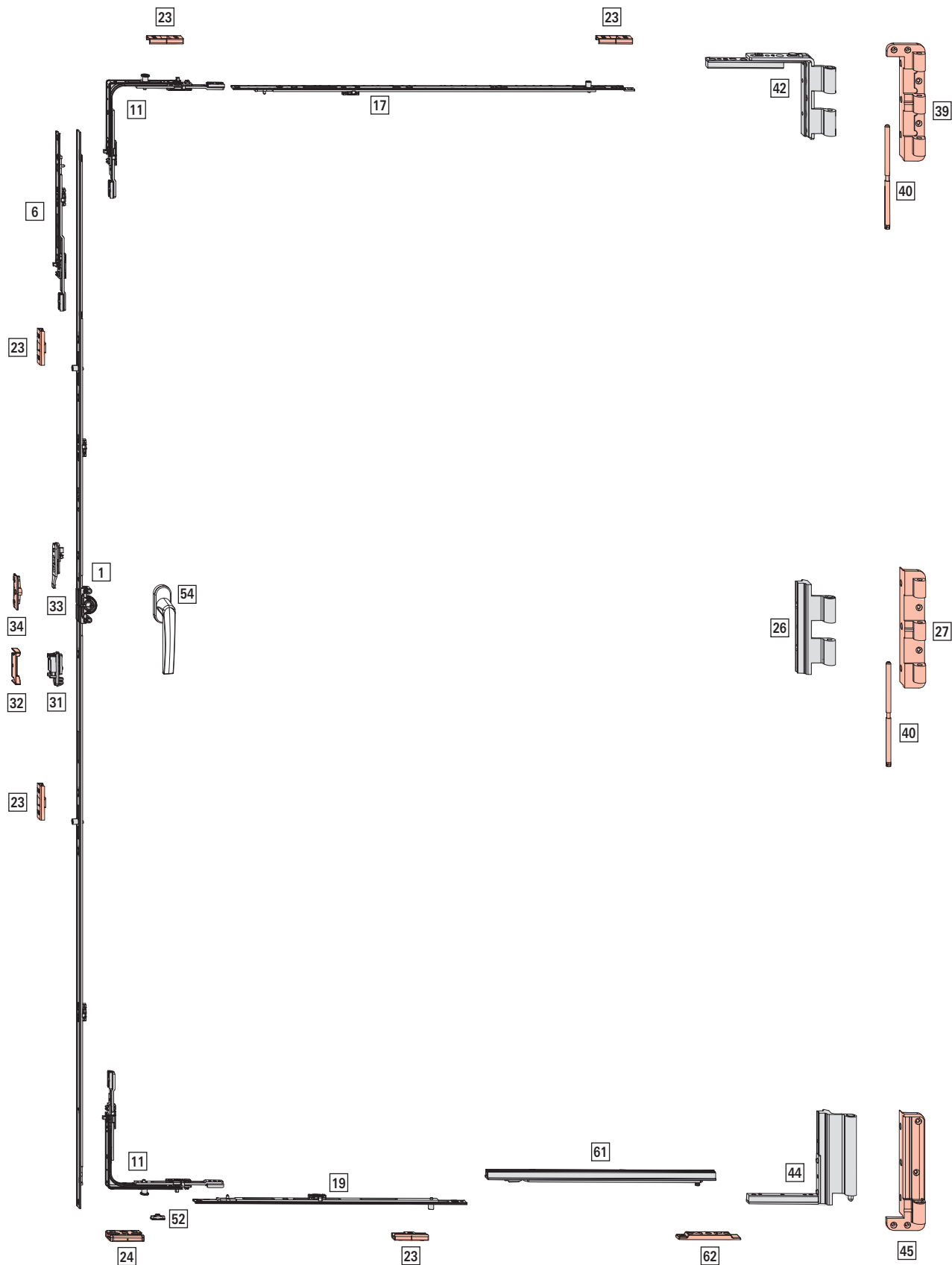
[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778



4.1.3 Turn-Only hardware

4.1.3.1 Basic security





Application range

SRW: 400 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 300 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

							Nº
1201 – 1400	563	1290	N	Y	1	E	619594
1401 – 1600	563	1490	N	Y	2	E	619595
1601 – 1800	563	1690	N	Y	2	E	619596
1601 – 1800	1000	1690	N	Y	2	E	838345
1801 – 2000	1000	1890	N	Y	2	E	794637
2001 – 2200	1000	2090	N	Y	2	E	795280
2201 – 2400	1000	2290	N	Y	2	E	795282
2201 – 2400	1000	2290	N	Y	3	E	794639

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

					Nº
200	Y	–	–	–	308267
400	Y	1	E	–	280346
600	Y	1	E	–	255282

Size-specific combinations:

					Nº
2401 – 2600	200 KU	–	–	–	308267
2601 – 2800	400 KU	1	E	–	280346
2801 – 3000	600 KU	1	E	–	255282

[11] Standard corner drive

				Nº
1	E	Top	–	260275
1	P	Top Bottom	–	260277

[17] Centre lock, multipart – standard, horizontal – top

					Nº
600	N	1	E	–	255281

Size-specific combinations:

					Nº
1101 – 1600	600	1	E	–	255281

[19] Centre lock, multipart – standard, horizontal – bottom

					Nº
400	N	1	E	–	255280
600	N	1	E	–	255281

Size-specific combinations:

Without turn restrictor

					Nº
1101 – 1600	600	1	E	–	255281

With turn restrictor

					Nº
1001 – 1200	400	1	E	–	255280
1201 – 1600	600	1	E	–	255281

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

				Nº
12/18-9 12/20-9	20	12	–	613973
12/18-9 12/20-9	29	12	–	561996
12/18-13 12/20-13	29	12	–	561995

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

				Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	–	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	–	561994



INFO

A stay-bearing pin is required for each central bearing.

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

		Nº
Bullet catch sash component	–	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

		Nº
Sash component for lifting mishandling device	–	795927

[34] Lifting mishandling device frame component → from page 145

[39] Stay bearing

						Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	–	613974

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[52] 90° travel restrictor

	Nº
Travel restrictor	264603

[54] Handle → CTL_1

[61] Turn restrictor 335, sash component

		Nº
12	Selectable final position	260565



INFO

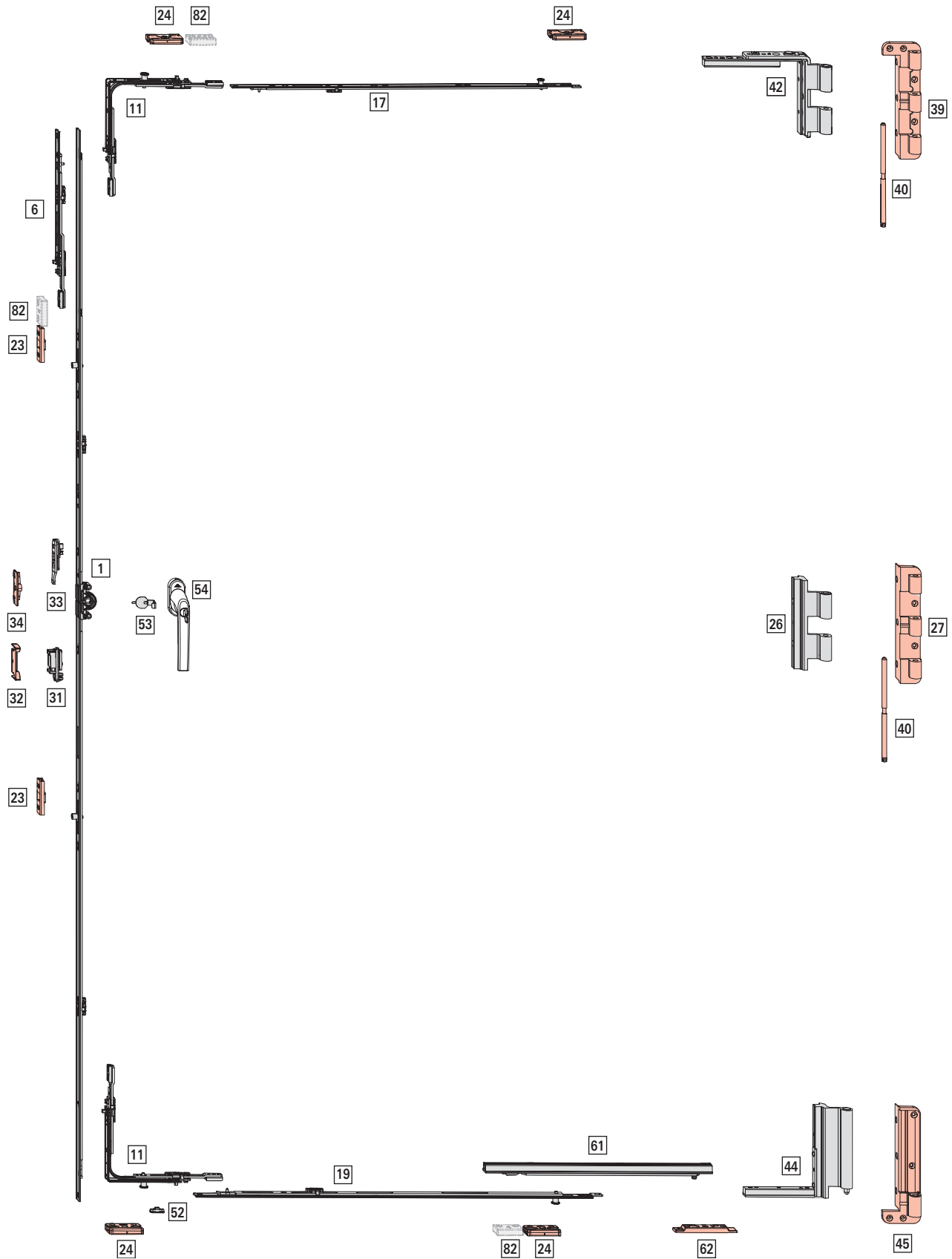
Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625



4.1.3.2 RC 1 N



**Application range****SRW:** 400 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 300 kg**[1] T&T espagnolette, VT – fixed handle height, backset 15 mm**

								Nº
1201 – 1400	563	1290	N	Y	1	E		619594
1401 – 1600	563	1490	N	Y	2	E		619595
1601 – 1800	563	1690	N	Y	2	E		619596
1601 – 1800	1000	1690	N	Y	2	E		838345
1801 – 2000	1000	1890	N	Y	2	E		794637
2001 – 2200	1000	2090	N	Y	2	E		795280
2201 – 2400	1000	2290	N	Y	2	E		795282
2201 – 2400	1000	2290	N	Y	3	E		794639

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

					Nº
200	Y	–	–		308267
400	Y	1	E		280346
600	Y	1	E		255282

Size-specific combinations:

					Nº
2401 – 2600	200 KU	–	–		308267
2601 – 2800	400 KU	1	E		280346
2801 – 3000	600 KU	1	E		255282

[11] Standard corner drive

		Nº
1	P	260277

[17] Centre lock, multipart – standard, horizontal – top

					Nº
200	N	1	P		255284
400	N	1	P		255285
600	N	1	P		255286
600	Y	1	P		622882

Size-specific combinations:

					Nº
600 – 800	200	1	P		255284
801 – 1000	400	1	P		255285
1001 – 1200	600	1	P		255286
1201 – 1400	600 KU	1	P		622882
	200	1	P		255284
1401 – 1600	600 KU	1	P		622882
	400	1	P		255285

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	P	255284

					Nº
400	N	1	P		255285
600	Y	1	E		255282
600	N	1	P		255286
600	Y	1	P		622882

Size-specific combinations:

Without turn restrictor

					Nº
600 – 800	200	1	P		255284
801 – 1000	400	1	P		255285
1001 – 1200	600	1	P		255286
1201 – 1400	600 KU	1	P		622882
	200	1	P		255284
1401 – 1600	600 KU	1	P		622882
	400	1	P		255285

With turn restrictor

					Nº
801 – 1000	200	1	P		255284
1001 – 1200	400	1	P		255285
1201 – 1400	600	1	P		255286
1401 – 1600	600 KU	1	E		255282
	200	1	P		255284

[23] Striker → from page 141**[24] Security striker → from page 142****[26] Central hinge, sash component**

			Nº
12/18-9 12/20-9	20	12	613973
12/18-9 12/20-9	29	12	561996
12/18-13 12/20-13	29	12	561995

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	561994

**INFO**

A stay-bearing pin is required for each central bearing.

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

Nº

Bullet catch sash component	788363
-----------------------------	--------

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

Nº

Sash component for lifting mishandling device	795927
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[34] Lifting mishandling device frame component → from page 145**[39] Stay bearing**

Nº

12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

Nº

153	562065
-----	--------

[42] Rebate stay hinge

Nº

12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

Nº

12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988



Nº

12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

Nº

12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[52] 90° travel restrictor

Nº

Travel restrictor	264603
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[53] Drilling protection

Nº

Drilling protection	797819
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[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

Nº

12	Selectable final position	260565
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**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Nº

Screw-on	264625
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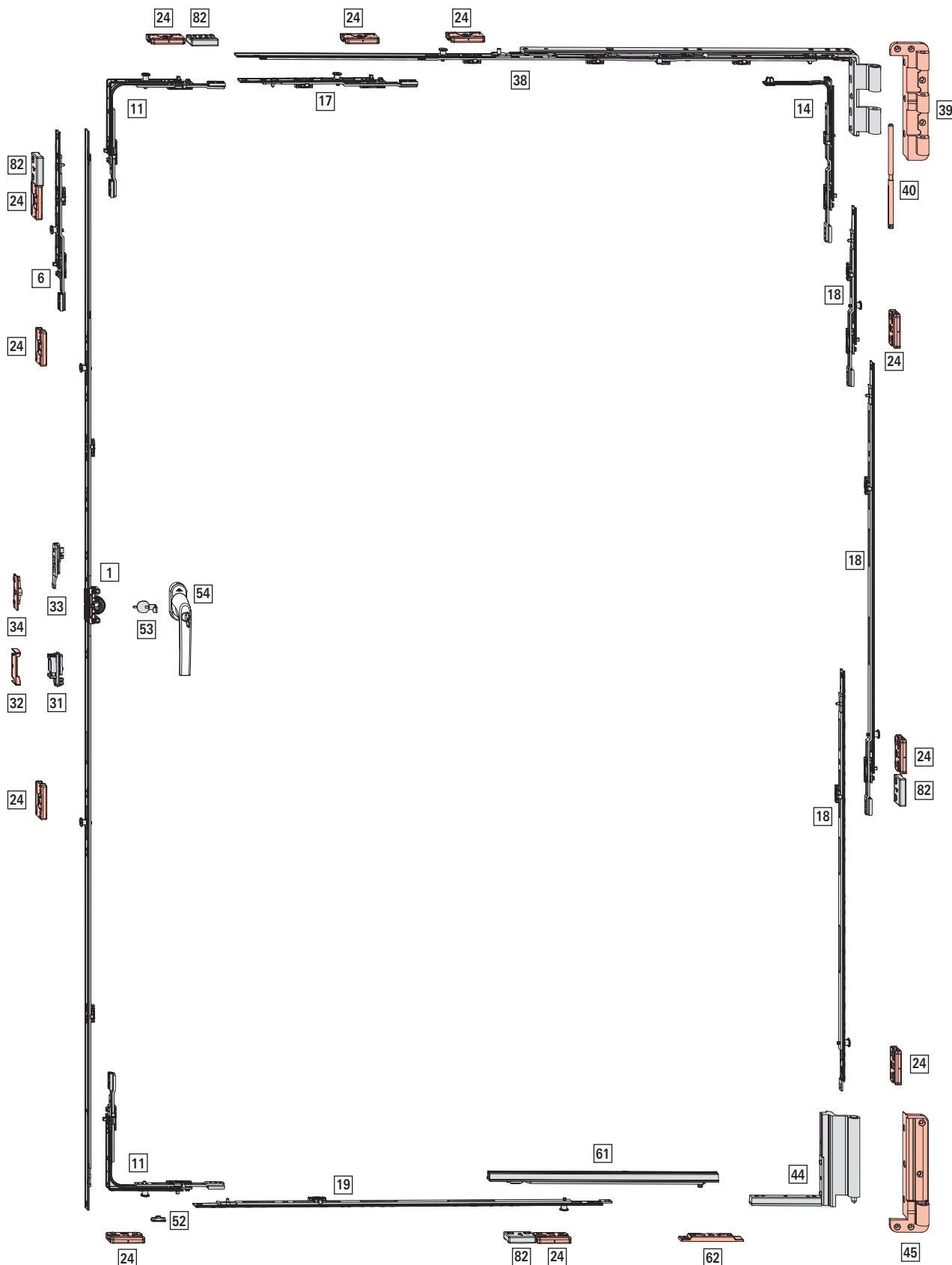
Optional**[82] Anti-jemmy device**

Nº

13	From rebate depth 24 mm	792786
----	-------------------------	--------



4.1.3.3 RC 2 / RC 2 N





Application range

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

							Nº
1201 – 1400	563	1290	N	Y	1	V	626544
1401 – 1600	563	1490	N	Y	2	V	626575
1601 – 1800	563	1690	N	Y	2	V	626576
1601 – 1800	1000	1690	N	Y	2	V	838324
1801 – 2000	1000	1890	N	Y	2	V	794641
2001 – 2200	1000	2090	N	Y	3	V	794642
2201 – 2400	1000	2290	N	Y	3	V	794643

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

					Nº
200	Y	1	V		337708
400	Y	1	V		337710
600	Y	1	V		337711

Size-specific combinations:

					Nº
2401 – 2600		200 KU	1	V	337708
2601 – 2800		400 KU	1	V	337710
2801 – 3000		600 KU	1	V	337711

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

					Nº
200	Y	1	V		337708
400	Y	1	V		337710
600	Y	1	V		337711

Size-specific combinations:

					Nº
1001 – 1200		200 KU	1	V	337708
1201 – 1400		400 KU	1	V	337710
1401 – 1600		600 KU	1	V	337711

[18] Multipart centre lock – standard, vertical

					Nº
200	N	1	V		296853
200	Y	1	V		337708
400	N	1	V		296854
600	N	1	V		296855

					Nº
600	Y	1	V		337711

Size-specific combinations:

					Nº
1200 – 1400		200 KU	1	V	337708
		600	1	V	296855
1401 – 1600		200 KU	1	V	337708
		600 KU	1	V	337711
		200	1	V	296853
1601 – 1800		200 KU	1	V	337708
		600 KU	1	V	337711
		400	1	V	296854
1801 – 2000		200 KU	1	V	337708
		600 KU	1	V	337711
		600	1	V	296855
2001 – 2200		200 KU	1	V	337708
		600 KU	1	V	337711
		600 KU	1	V	337711
		200	1	V	296853
2201 – 2400		200 KU	1	V	337708
		600 KU	1	V	337711
		600 KU	1	V	337711
		400	1	V	296854
2401 – 2600		200 KU	1	V	337708
		600 KU	1	V	337711
		600 KU	1	V	337711
		600	1	V	296855
2601 – 2800		200 KU	1	V	337708
		600 KU	1	V	337711
		600 KU	1	V	337711
		600 KU	1	V	337711
		200	1	V	296853
2801 – 3000		200 KU	1	V	337708
		600 KU	1	V	337711
		600 KU	1	V	337711
		600 KU	1	V	337711
		400	1	V	296854

[19] Centre lock, multipart – standard, horizontal – bottom

					Nº
200	N	1	V		296853
400	N	1	V		296854
600	N	1	V		296855
600	Y	1	V		337711

Size-specific combinations:

Without turn restrictor

					Nº
600 – 690		200	1	V	296853

				Nº
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855
1091 – 1290	600 KU	1	V	337711
	200	1	V	296853
1291 – 1490	600 KU	1	V	337711
	400	1	V	296854
1491 – 1600	600 KU	1	V	337711
	600	1	V	296855

With turn restrictor

				Nº
801 – 1000	200	1	V	296853
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855
1401 – 1600	600 KU	1	V	337711
	200	1	V	296853

[24] Security striker → from page 142**[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

Nº

Bullet catch sash component 788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

Nº

Sash component for lifting mishandling device 795927

[34] Lifting mishandling device frame component → from page 145**[38] T&T sash stay set, S.kg max. 200 kg**

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005

						Nº
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[52] 90° travel restrictor

	Nº
Travel restrictor	264603



[53] Drilling protection



Nº

Drilling protection	797819
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[54] Handle, lockable → CTL_1

[61] Turn restrictor 335, sash component



Nº

12	Selectable final position	260565
----	---------------------------	--------



INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component



Nº

Screw-on	264625
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[82] Anti-jemmy device

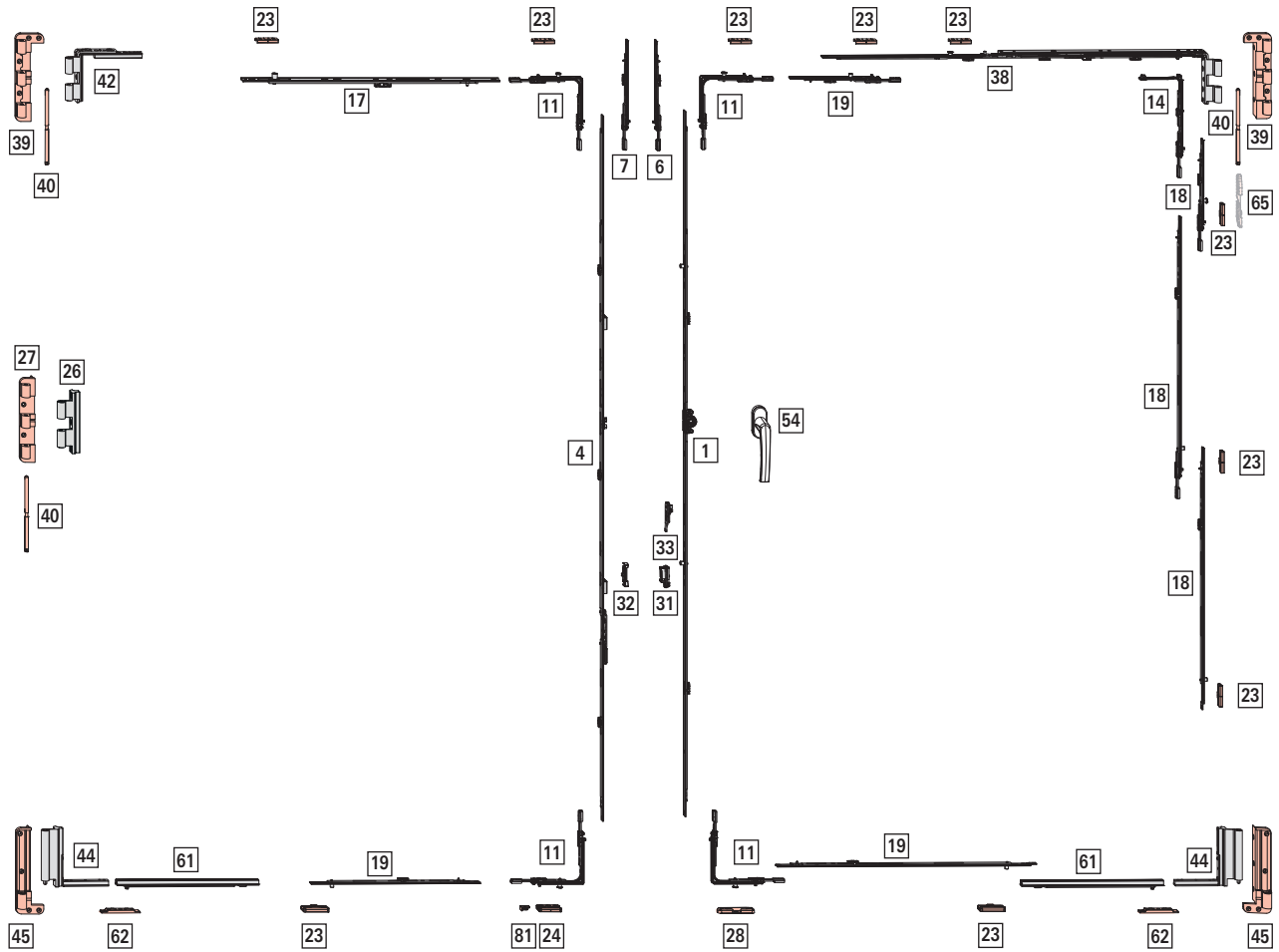


Nº

13	From rebate depth 24 mm	792786
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4.1.4 Floating-mullion hardware

4.1.4.1 Standard – basic security





Application range

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

								Nº
1201 – 1400	563	1290	N	Y	1	E		619594
1401 – 1600	563	1490	N	Y	2	E		619595
1601 – 1800	563	1690	N	Y	2	E		619596
1601 – 1800	1000	1690	N	Y	2	E		838345
1801 – 2000	1000	1890	N	Y	2	E		794637
2001 – 2200	1000	2090	N	Y	3	E		794638
2201 – 2400	1000	2290	N	Y	3	E		794639

[4] Lever-operated espagnolette, VT – fixed handle height, backset 15 mm

						Nº
1201 – 1400	335	1290	1	Y		763119
1401 – 1600	335	1490	2	Y		763120
1601 – 1800	335	1690	2	Y		795474
1801 – 2000	640	1890	2	Y		795476
2001 – 2200	640	2090	3	Y		795478
2201 – 2400	640	2290	3	Y		795480

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
600	N	1	E	255281

Size-specific combinations:

				Nº
1101 – 1600	600	1	E	255281

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

			Nº
12/18-9 12/20-9	20	12	613973
12/18-9 12/20-9	29	12	561996
12/18-13 12/20-13	29	12	561995

SRH 1200 – 2000: 1 central hinge
SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	561994



INFO

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

**[44] Rebate corner hinge**

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

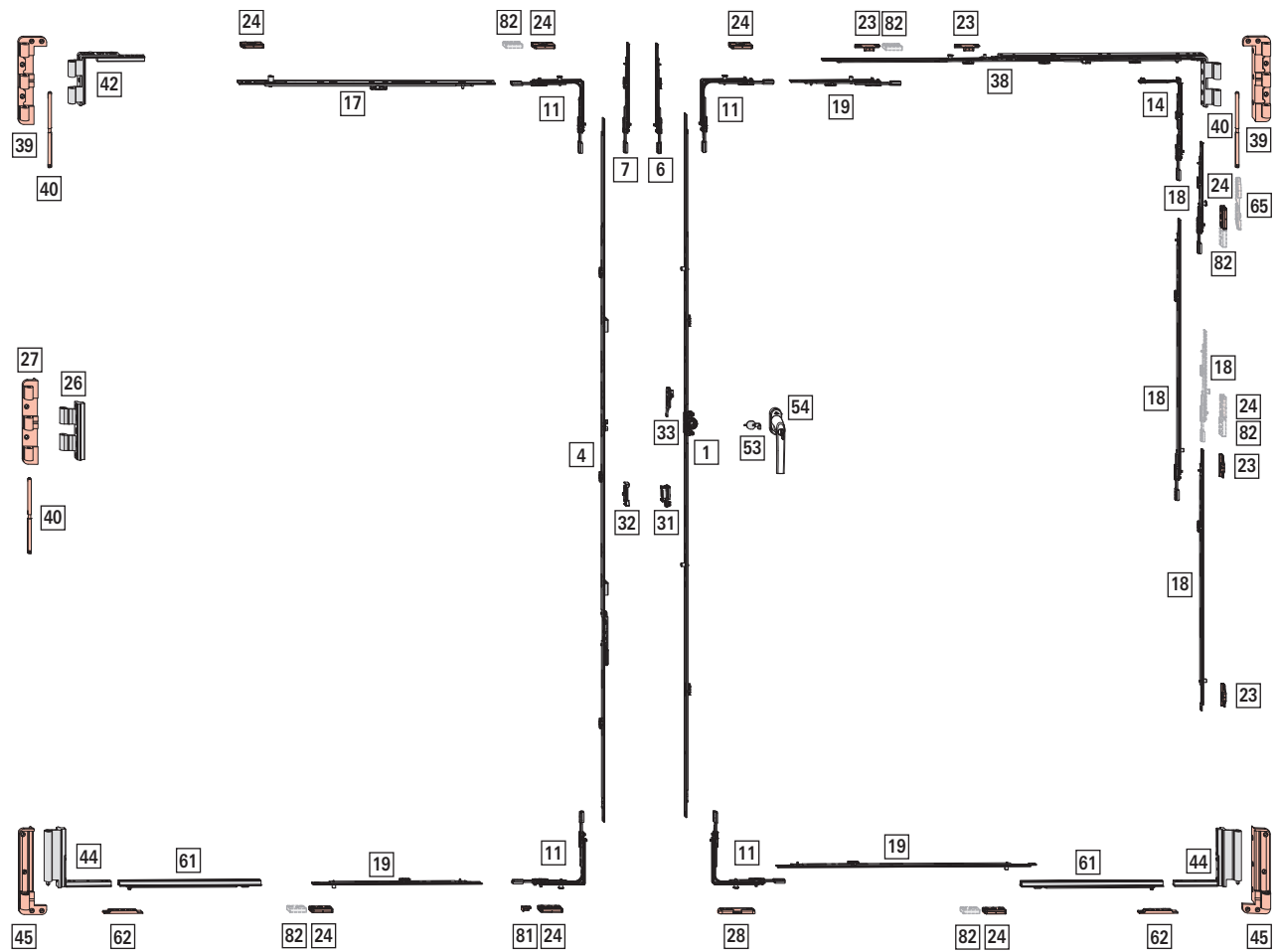
Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

Nº

Support plate for anti-slam device	808778
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4.1.4.2 Standard – RC 1 N





Application range

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

							Nº
1201 – 1400	563	1290	N	Y	1	E	619594
1401 – 1600	563	1490	N	Y	2	E	619595
1601 – 1800	563	1690	N	Y	2	E	619596
1601 – 1800	1000	1690	N	Y	2	E	838345
1801 – 2000	1000	1890	N	Y	2	E	794637
2001 – 2200	1000	2090	N	Y	3	E	794638
2201 – 2400	1000	2290	N	Y	3	E	794639

[4] Lever-operated espagnolette, VT – fixed handle height, backset 15 mm

					Nº
1201 – 1400	335	1290	1	Y	763119
1401 – 1600	335	1490	2	Y	763120
1601 – 1800	335	1690	2	Y	795474
1801 – 2000	640	1890	2	Y	795476
2001 – 2200	640	2090	3	Y	795478
2201 – 2400	640	2290	3	Y	795480

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	P	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	P	622882

Size-specific combinations:

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255286
1201 – 1400	600 KU	1	P	622882
	200	1	P	255284
1401 – 1600	600 KU	1	P	622882
	400	1	P	255285

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	P	622880
400	N	1	E	255280
600	N	1	E	255281
600	Y	1	E	255282

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

with anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	200 KU	1	P	622880
	400	1	E	255280
1801 – 2600	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	400	1	E	255280

				Nº
2601 – 3000	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	400	1	E	255280

[19] Centre lock, multipart – standard, horizontal
– top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal
– bottom

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	E	255282

Size-specific combinations:

Without turn restrictor

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255285
1201 – 1400	600 KU	1	E	255282
	200	1	P	255284
1401 – 1600	600 KU	1	E	255282
	400	1	P	255285

With turn restrictor

				Nº
801 – 1000	200	1	P	255284
1001 – 1200	400	1	P	255285
1201 – 1400	600	1	P	255286
1401 – 1600	600 KU	1	E	255282
	200	1	P	255284

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

			Nº
12/18-9	20	12	613973
12/20-9			

			Nº
12/18-9	29	12	561996
12/20-9			
12/18-13	29	12	561995
12/20-13			

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9	20	12	613972
12/18-13			
12/20-9			
12/20-13			
12/18-9	29	12	561994
12/18-13			
12/20-9			
12/20-13			



INFO

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9	600 – 800	350	20	12	Left	613978
12/20-9						
12/18-9	600 – 800	350	20	12	Right	613979
12/20-9						
12/18-9	801 – 1000	500	20	12	Left	613980
12/20-9						
12/18-9	801 – 1000	500	20	12	Right	613981
12/20-9						
12/18-9	600 – 800	350	29	12	Left	562007
12/20-9						
12/18-9	600 – 800	350	29	12	Right	562008
12/20-9						
12/18-9	801 – 1000	500	29	12	Left	562009
12/20-9						
12/18-9	801 – 1000	500	29	12	Right	562010
12/20-9						
12/18-13	600 – 800	350	29	12	Left	562003
12/20-13						
12/18-13	600 – 800	350	29	12	Right	562004
12/20-13						
12/18-13	801 – 1000	500	29	12	Left	562005
12/20-13						



							Nº
12/18-13 12/20-13	801 – 1000	500	29	12	Right		562006

[39] Stay bearing

						Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left		613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right		613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left		561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right		561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

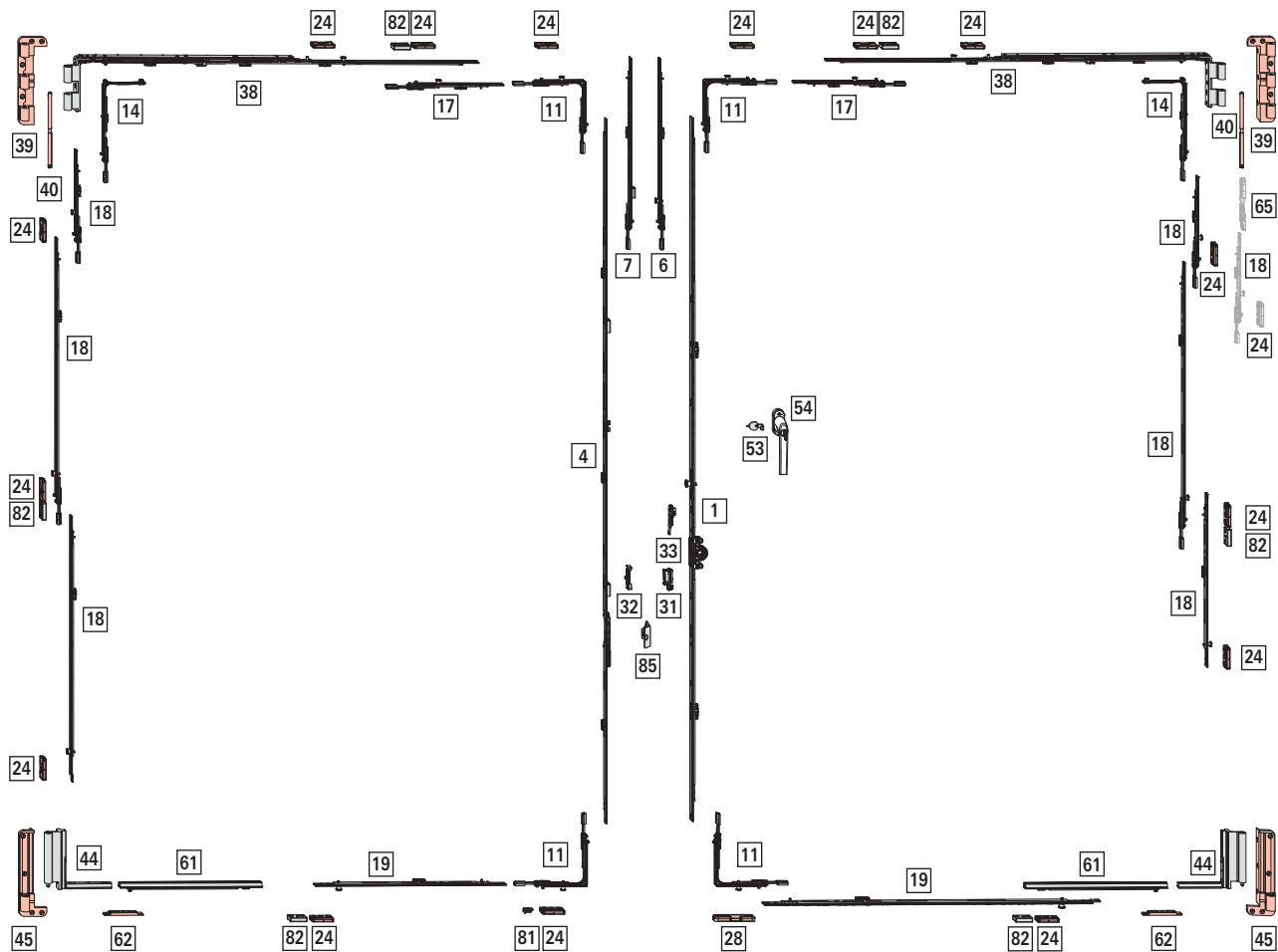
[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

4.1.4.3 Standard – RC 2 / RC 2 N



**Application range**

SRW: 600 – 1400 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

							Nº
1201 – 1400	563	1290	N	Y	1	V	626544
1401 – 1600	563	1490	N	Y	2	V	626575
1601 – 1800	563	1690	N	Y	2	V	626576
1601 – 1800	1000	1690	N	Y	2	V	838324
1801 – 2000	1000	1890	N	Y	2	V	794641
2001 – 2200	1000	2090	N	Y	3	V	794642
2201 – 2400	1000	2290	N	Y	3	V	794643

[4] Lever-operated espagnolette, VT – fixed handle height, backset 15 mm

					Nº
1201 – 1400	335	1290	1	Y	763119
1401 – 1600	335	1490	2	Y	763120
1601 – 1800	335	1690	2	Y	795474
1801 – 2000	640	1890	2	Y	795476
2001 – 2200	640	2090	3	Y	795478
2201 – 2400	640	2290	3	Y	795480

Follow the instructions for cropping → *from page 158.***[6] Centre lock, multipart, (SRH ≥ 2401 mm)**

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
2401 – 2600	200 KU	1	V	337708
2601 – 2800	400 KU	1	V	337710
2801 – 3000	600 KU	1	V	337711

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	1	450822
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	1	450822
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	1	V	337708
400	Y	1	V	337710

Size-specific combinations:

				Nº
1001 – 1200	200 KU	1	V	337708
1201 – 1400	400 KU	1	V	337710

[18] Multipart centre lock – standard, vertical

				Nº
200	N	1	V	296853
200	Y	1	V	337708
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	600	1	V	296855
1401 – 1600	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1601 – 1800	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
1801 – 2000	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2001 – 2200	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2201 – 2400	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2401 – 2600	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855

				Nº
2601 – 2800	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2801 – 3000	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854

with anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	200 KU	1	V	337708
	400	1	V	296854
1401 – 1600	200 KU	1	V	337708
	200 KU	1	V	337708
	600	1	V	296855
1601 – 1800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1801 – 2000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
2001 – 2200	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2201 – 2400	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
2401 – 2600	200	1	V	296853
	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
2601 – 2800	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
	200 KU	1	V	337708
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

				Nº
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

[19] Centre lock, multipart – standard, horizontal
– bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

Without turn restrictor

				Nº
60 – 690	200	1	V	255282
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855
1091 – 1290	600 KU	1	V	337711
	200	1	V	255282
1291 – 1400	600 KU	1	V	337711
	400	1	V	296854

With turn restrictor

				Nº
801 – 1000	200	1	V	255282
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855

[24] Security striker → from page 142**[28] Tilt striker** → from page 139**[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978



						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

[85] Retainer clasp

	Nº
Retainer clasp for lever-operated espagnolette	314203

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.



INFO

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

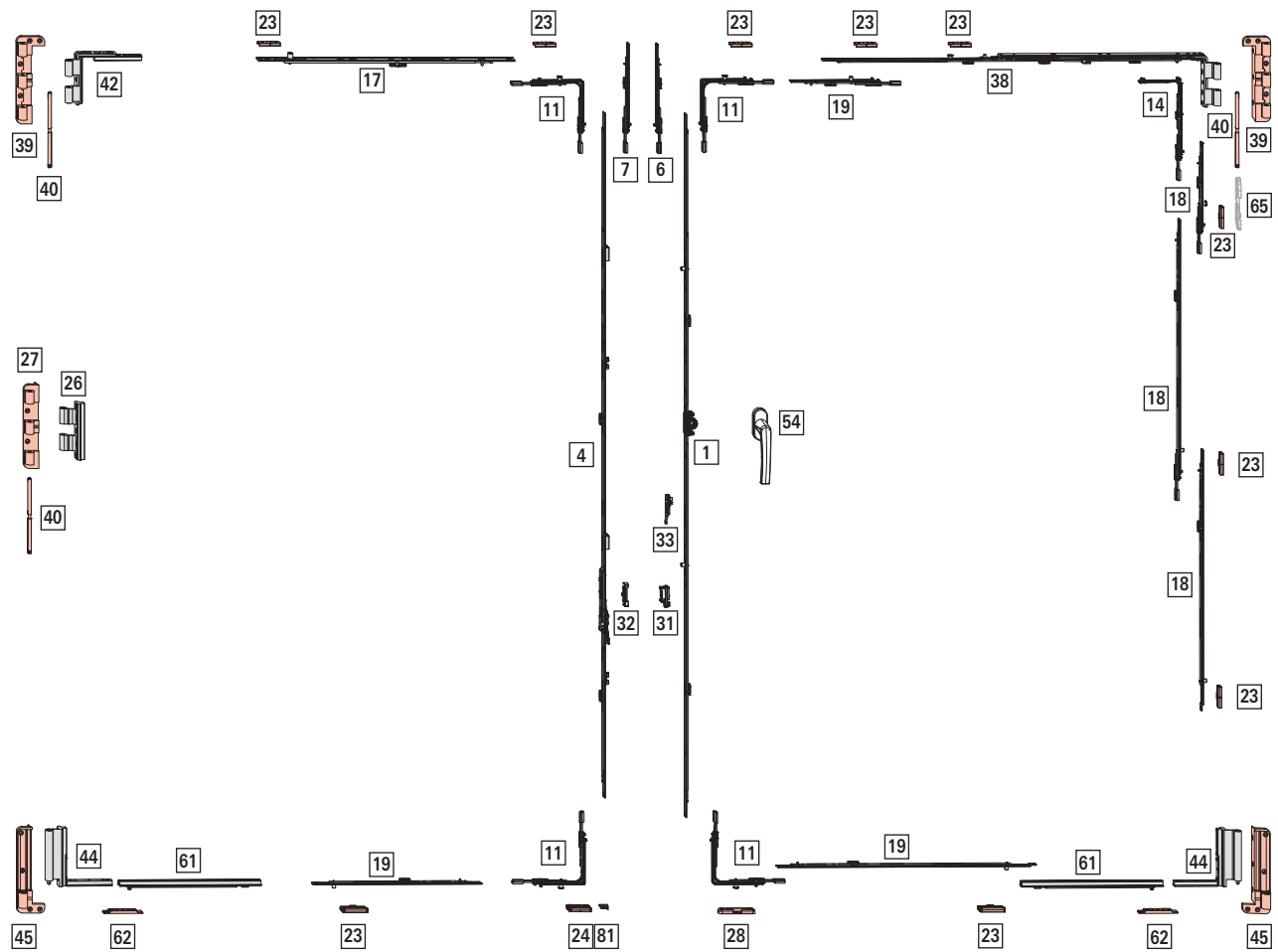


Nº

Support plate for anti-slam device	808778
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4.1.4.4 Plus – basic security



**Application range**

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

								Nº
1201 – 1400	563	1290	N	Y	1	E		619594
1401 – 1600	563	1490	N	Y	2	E		619595
1601 – 1800	563	1690	N	Y	2	E		619596
1601 – 1800	1000	1690	N	Y	2	E		838345
1801 – 2000	1000	1890	N	Y	2	E		794637
2001 – 2200	1000	2090	N	Y	3	E		794638
2201 – 2400	1000	2290	N	Y	3	E		794639

[4] Floating-mullion espagnolette, Plus – VT, backset 15 mm

					Nº
1201 – 1400		546	1290	1	2007119
1401 – 1600		546	1490	2	2007120
1601 – 1800		546	1690	2	2007121
1801 – 2000		546	1890	2	2007122
2001 – 2200		546	2090	3	2007123
2201 – 2400		546	2290	3	2007124

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
600	N	1	E	255281

Size-specific combinations:

				Nº
1101 – 1600	600	1	E	255281

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141**[24] Security striker → from page 142****[26] Central hinge, sash component**

			Nº
12/18-9 12/20-9	20	12	613973
12/18-9 12/20-9	29	12	561996
12/18-13 12/20-13	29	12	561995

SRH 1200 – 2000: 1 central hinge
SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	561994

**INFO**

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139**[31] Bullet catch sash component (optional SRH ≥ 1601 mm)**

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

**[44] Rebate corner hinge**

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

Nº

Support plate for anti-slam device	808778
------------------------------------	--------

This diagram illustrates the assembly of a rectangular metal frame. The components are numbered as follows:

- Top Rail:** 19 (main rail), 24 (corner bracket), 82 (corner bracket), 11 (corner bracket), 17 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket), 24 (corner bracket), 82 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket).
- Bottom Rail:** 19 (main rail), 24 (corner bracket), 82 (corner bracket), 11 (corner bracket), 17 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket), 24 (corner bracket), 82 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket).
- Left Rail:** 19 (main rail), 24 (corner bracket), 82 (corner bracket), 11 (corner bracket), 17 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket), 24 (corner bracket), 82 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket).
- Right Rail:** 19 (main rail), 24 (corner bracket), 82 (corner bracket), 11 (corner bracket), 17 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket), 24 (corner bracket), 82 (corner bracket), 23 (corner bracket), 38 (corner bracket), 14 (corner bracket), 40 (corner bracket), 39 (corner bracket).
- Central Components:** 1 (central rail), 4 (central rail), 7 (central rail), 6 (central rail), 33 (central rail), 32 (central rail), 31 (central rail), 53 (central rail), 54 (central rail).
- Other Components:** 27, 26, 42, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.



Application range

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

							Nº
1201 – 1400	563	1290	N	Y	1	E	619594
1401 – 1600	563	1490	N	Y	2	E	619595
1601 – 1800	563	1690	N	Y	2	E	619596
1601 – 1800	1000	1690	N	Y	2	E	838345
1801 – 2000	1000	1890	N	Y	2	E	794637
2001 – 2200	1000	2090	N	Y	3	E	794638
2201 – 2400	1000	2290	N	Y	3	E	794639

[4] Floating-mullion espagnolette, Plus – VT, backset 15 mm

				Nº
1201 – 1400	546	1290	1	2007119
1401 – 1600	546	1490	2	2007120
1601 – 1800	546	1690	2	2007121
1801 – 2000	546	1890	2	2007122
2001 – 2200	546	2090	3	2007123
2201 – 2400	546	2290	3	2007124

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	P	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	P	622882

Size-specific combinations:

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255286
1201 – 1400	600 KU	1	P	622882
	200	1	P	255284
1401 – 1600	600 KU	1	P	622882
	400	1	P	255285

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	P	622880
400	N	1	E	255280
600	N	1	E	255281
600	Y	1	E	255282

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

with anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	200 KU	1	P	622880
	400	1	E	255280
1801 – 2600	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	400	1	E	255280

				Nº
2601 – 3000	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	400	1	E	255280

[19] Centre lock, multipart – standard, horizontal – top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	E	255282

Size-specific combinations:

Without turn restrictor

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255285
1201 – 1400	600 KU	1	E	255282
1401 – 1600	200	1	P	255284
	600 KU	1	E	255282
	400	1	P	255285

With turn restrictor

				Nº
801 – 1000	200	1	P	255284
1001 – 1200	400	1	P	255285
1201 – 1400	600	1	P	255286
1401 – 1600	600 KU	1	E	255282
	200	1	P	255284

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

			Nº
12/18-9	20	12	613973
12/20-9			

			Nº
12/18-9	29	12	561996
12/20-9			
12/18-13	29	12	561995
12/20-13			

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9	20	12	613972
12/18-13			
12/20-9			
12/20-13			
12/18-9	29	12	561994
12/18-13			
12/20-9			
12/20-13			



INFO

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)



	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component



	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9	600 – 800	350	20	12	Left	613978
12/20-9						
12/18-9	600 – 800	350	20	12	Right	613979
12/20-9						
12/18-9	801 – 1000	500	20	12	Left	613980
12/20-9						
12/18-9	801 – 1000	500	20	12	Right	613981
12/20-9						
12/18-9	600 – 800	350	29	12	Left	562007
12/20-9						
12/18-9	600 – 800	350	29	12	Right	562008
12/20-9						
12/18-9	801 – 1000	500	29	12	Left	562009
12/20-9						
12/18-9	801 – 1000	500	29	12	Right	562010
12/20-9						
12/18-13	600 – 800	350	29	12	Left	562003
12/20-13						
12/18-13	600 – 800	350	29	12	Right	562004
12/20-13						
12/18-13	801 – 1000	500	29	12	Left	562005
12/20-13						



						Nº
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

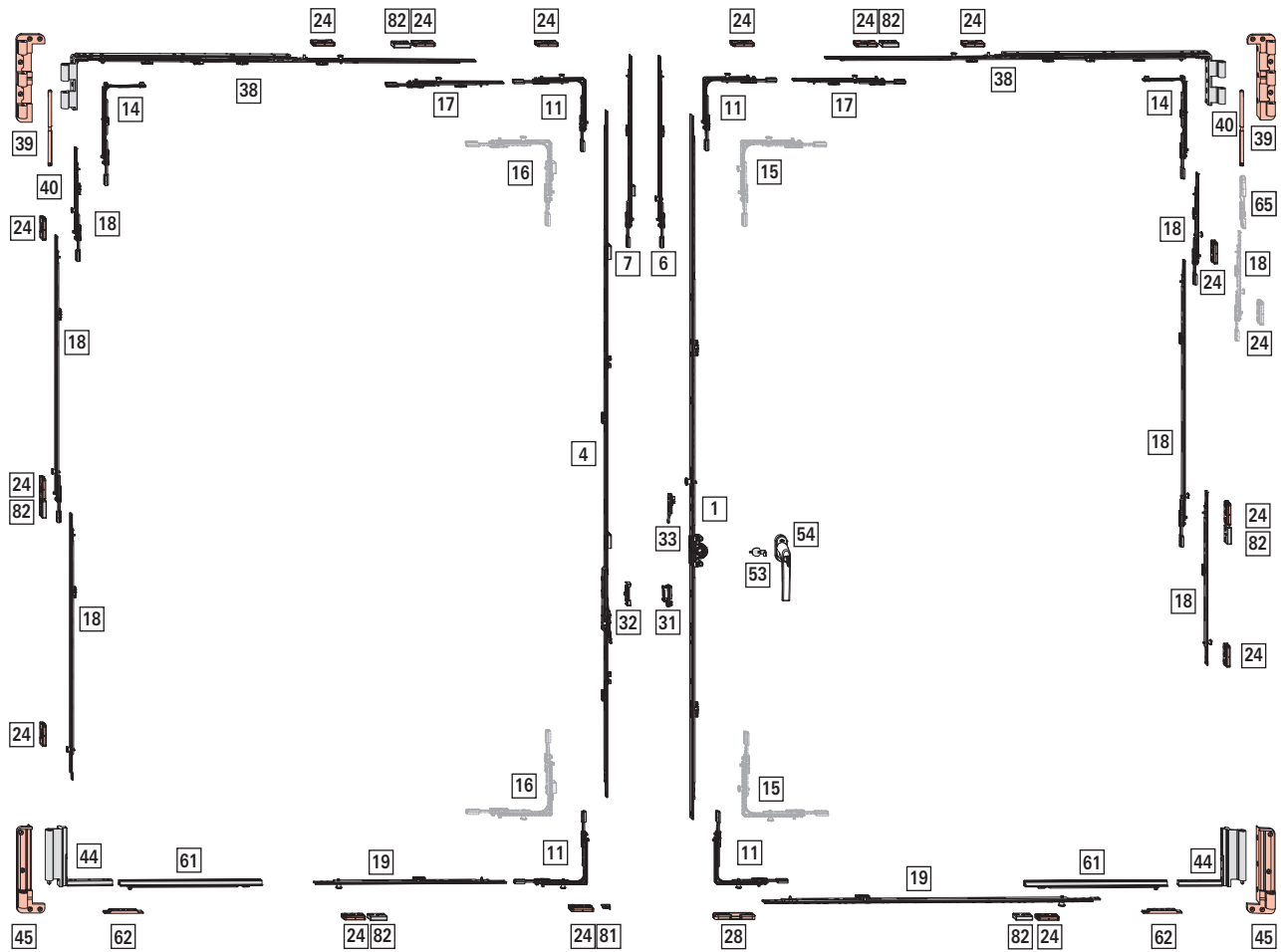
[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

4.1.4.6 Plus – RC 2 / RC 2 N



**Application range**

SRW: 600 – 1400 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[1] T&T espagnolette, VT – fixed handle height, backset 15 mm

							Nº
1201 – 1400	563	1290	N	Y	1	V	626544
1401 – 1600	563	1490	N	Y	2	V	626575
1601 – 1800	563	1690	N	Y	2	V	626576
1601 – 1800	1000	1690	N	Y	2	V	838324
1801 – 2000	1000	1890	N	Y	2	V	794641
2001 – 2200	1000	2090	N	Y	3	V	794642
2201 – 2400	1000	2290	N	Y	3	V	794643

[4] Floating-mullion espagnolette, Plus – VT, backset 15 mm

				Nº
1201 – 1400	546	1290	1	2007119
1401 – 1600	546	1490	2	2007120
1601 – 1800	546	1690	2	2007121
1801 – 2000	546	1890	2	2007122
2001 – 2200	546	2090	3	2007123
2201 – 2400	546	2290	3	2007124

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
2401 – 2600	200 KU	1	V	337708
2601 – 2800	400 KU	1	V	337710
2801 – 3000	600 KU	1	V	337711

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	1	450822
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	1	450822
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	1	V	337708
400	Y	1	V	337710

Size-specific combinations:

				Nº
1001 – 1200	200 KU	1	V	337708
1201 – 1400	400 KU	1	V	337710

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	V	337708
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	600	1	V	296855
1401 – 1600	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1601 – 1800	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
1801 – 2000	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2001 – 2200	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2201 – 2400	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2401 – 2600	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855

				Nº
2601 – 2800	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2801 – 3000	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854

with anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	200 KU	1	V	337708
	400	1	V	296854
1401 – 1600	200 KU	1	V	337708
	200 KU	1	V	337708
	600	1	V	296855
1601 – 1800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1801 – 2000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
2001 – 2200	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2201 – 2400	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
2401 – 2600	200	1	V	296853
	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
2601 – 2800	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
	200 KU	1	V	337708
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711

				Nº
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

[19] Centre lock, multipart – standard, horizontal
– bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

Without turn restrictor

				Nº
60 – 690	200	1	V	255282
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855
1091 – 1290	600 KU	1	V	337711
	200	1	V	255282
1291 – 1400	600 KU	1	V	337711
	400	1	V	296854

With turn restrictor

				Nº
801 – 1000	200	1	V	255282
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855

[24] Security striker → from page 142

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978



						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

Optional**[15] Corner drive, standard (security)**

		Nº
2	V	260274

[16] Corner drive, slide guard

				Nº
Second opening sash / slide guard	Top	1	V	839223
Second opening sash / slide guard	Bottom	1	V	839224

When using a corner drive with a slide guard, a standard corner drive (RC 3) is required on the first opening sash.

[65] Anti-slam device

	Nº
Left	823439



Right

Nº

823438



INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.



INFO

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.



Nº

Support plate for anti-slam device

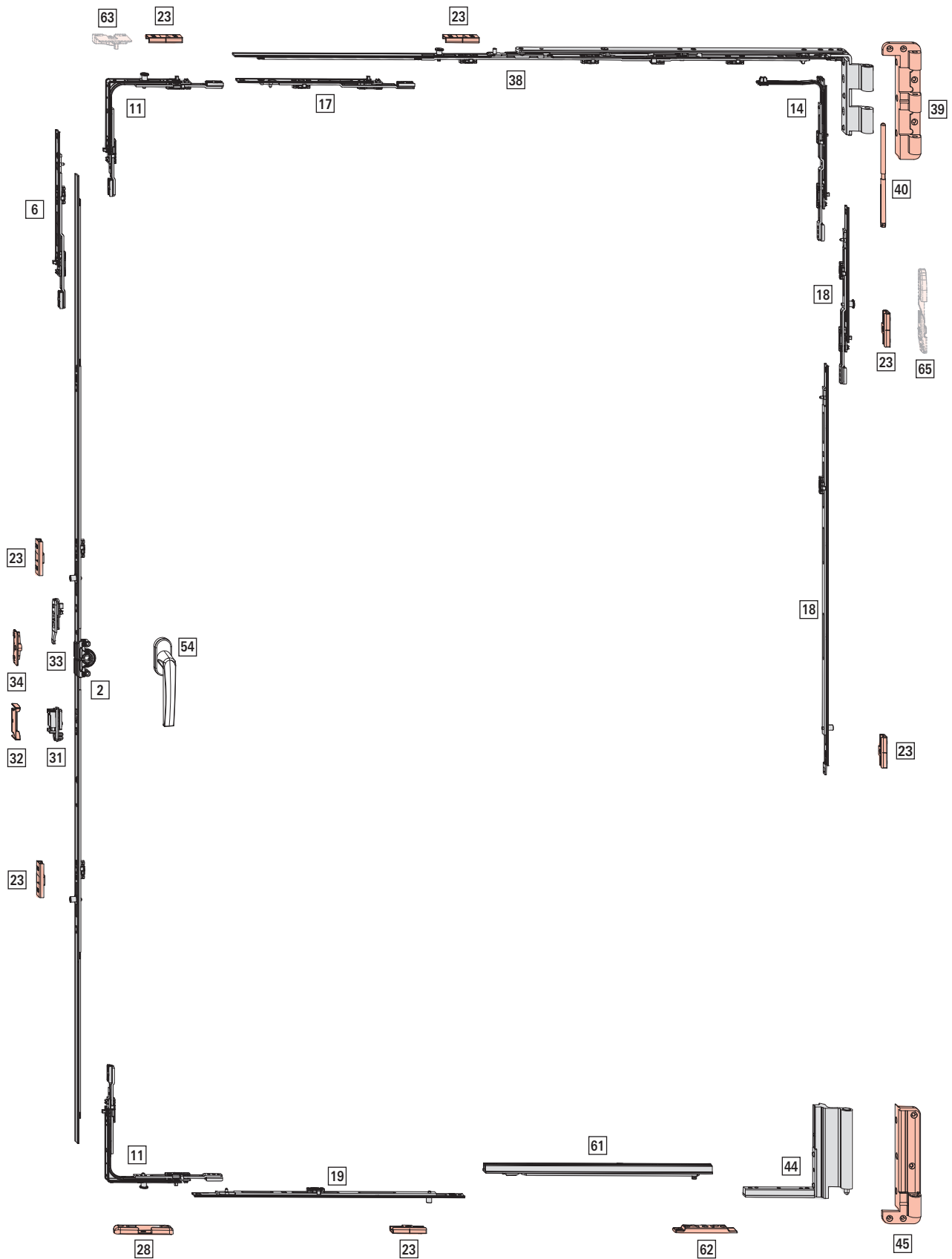
808778



4.2 T&T espagnolette – centred / variable handle height

4.2.1 Tilt&Turn hardware

4.2.1.1 Basic security





Application range

SRW: 600 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[2] T&T espagnolette – centred / variable handle height, backset 15 mm

						Nº
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component → from page 145

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979

						Nº
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

Optional**[63] Night vent → from page 147****INFO**

Only for use in conjunction with P or V cam.

[65] Anti-slam device

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

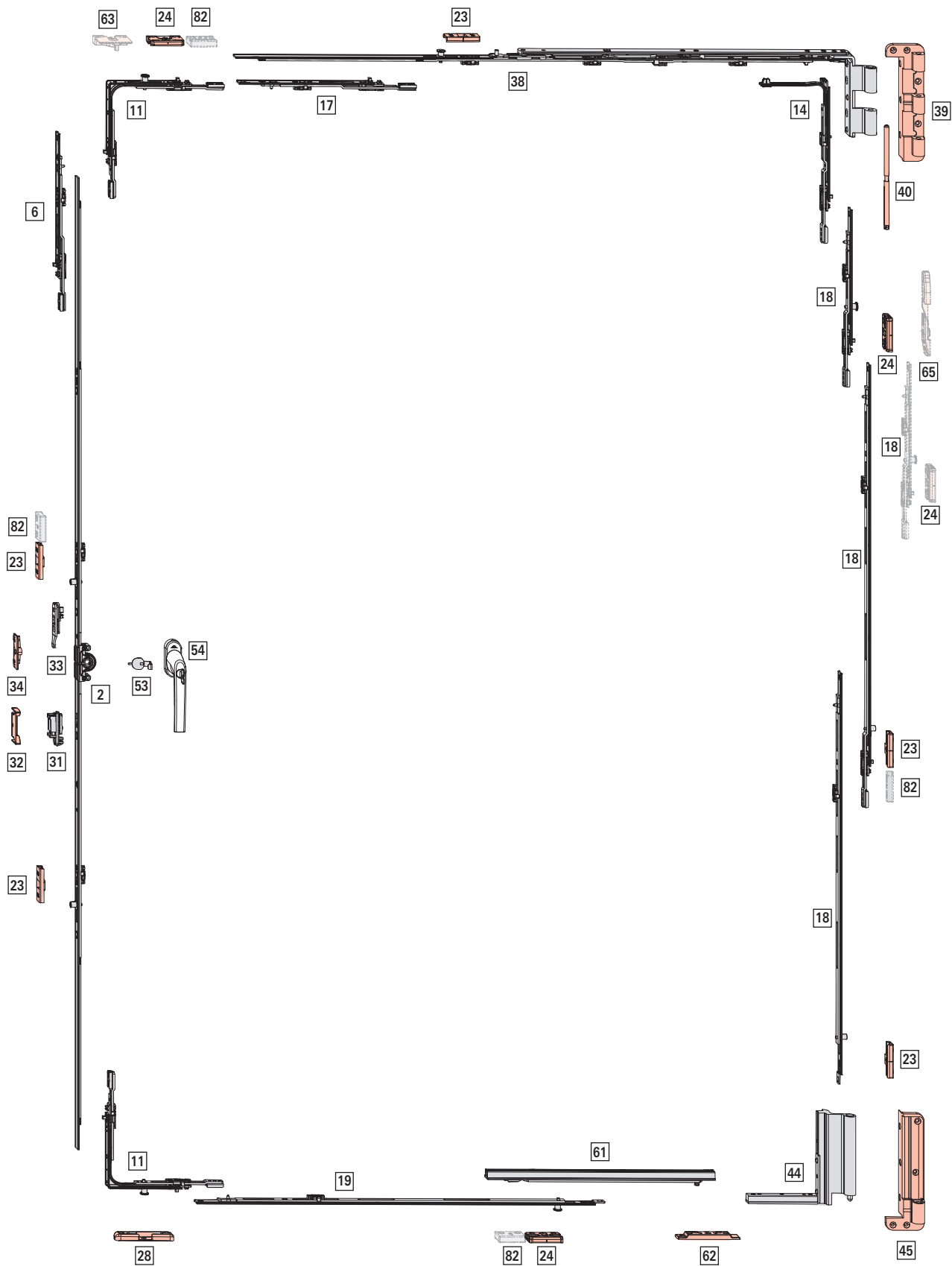
Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778



4.2.1.2 RC 1 N



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						Nº
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[11] Standard corner drive

		Nº
1	P	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	P	622880
400	N	1	E	255280
600	N	1	E	255281
600	Y	1	E	255282

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

with anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	200 KU	1	P	622880
	400	1	E	255280
1801 – 2600	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	400	1	E	255280
2601 – 3000	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	400	1	E	255280

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	E	255282

Size-specific combinations:

Without turn restrictor

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255285
1201 – 1400	600 KU	1	E	255282
	200	1	P	255284
1401 – 1600	600 KU	1	E	255282
	400	1	P	255285

With turn restrictor

				Nº
801 – 1000	200	1	P	255284
1001 – 1200	400	1	P	255285
1201 – 1400	600	1	P	255286
1401 – 1600	600 KU	1	E	255282
	200	1	P	255284

[23] Striker → from page 141**[24] Security striker → from page 142****[28] Tilt striker → from page 139****[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

Nº

Bullet catch sash component

788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

Nº

Sash component for lifting mishandling device

795927

[34] Lifting mishandling device frame component
→ from page 145**[38] T&T sash stay set, S.kg max. 200 kg**

Nº

12/18-9 600 – 800 350 20 12 Left 613978

12/18-9 600 – 800 350 20 12 Right 613979

12/18-9 801 – 1000 500 20 12 Left 613980

12/18-9 801 – 1000 500 20 12 Right 613981

12/18-9 600 – 800 350 29 12 Left 562007

12/18-9 600 – 800 350 29 12 Right 562008

12/18-9 801 – 1000 500 29 12 Left 562009

12/18-9 801 – 1000 500 29 12 Right 562010

12/18-13 600 – 800 350 29 12 Left 562003

12/18-13 600 – 800 350 29 12 Right 562004

12/18-13 801 – 1000 500 29 12 Left 562005

12/18-13 801 – 1000 500 29 12 Right 562006

[39] Stay bearing

Nº

12/18-9 20 12 max. 200 kg Left 613974

12/18-13 20 12 max. 200 kg Right 613975

12/18-9 29 12 max. 300 kg Left 561997

12/18-13 29 12 max. 300 kg Left 561997

12/20-9 29 12 max. 300 kg Left 561997

12/20-13 29 12 max. 300 kg Left 561997



Nº

12/18-9
12/18-13
12/20-9
12/20-13

29

12

max. 300 kg

Right

561998

[40] Stay-bearing pin

Nº

153

562065

[44] Rebate corner hinge

Nº

12/18-9 20 12 max. 200 kg Left 613970

12/18-9 20 12 max. 200 kg Right 613971

12/18-9 29 12 max. 300 kg Left 561988

12/18-9 29 12 max. 300 kg Right 561989

12/18-13 29 12 max. 300 kg Left 561986

12/18-13 29 12 max. 300 kg Right 561987

[45] Pivot rest

Nº

12/18-9 20 12 max. 200 kg Left 613968

12/18-9 20 12 max. 200 kg Right 613969

12/18-9 29 12 max. 300 kg Left 561982

12/18-13 29 12 max. 300 kg Right 561983

12/18-13 29 12 max. 300 kg Right 561983

12/20-9 29 12 max. 300 kg Right 561983

12/20-13 29 12 max. 300 kg Right 561983

[53] Drilling protection

Nº

Drilling protection

797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

Nº

12

Selectable final position

260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Nº

Screw-on

264625



Optional

[63] Night vent → from page 147



INFO

Only for use in conjunction with P or V cam.

[65] Anti-slam device



Nº

Left

823439

Right

823438



INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.



INFO

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.



Nº

Support plate for anti-slam device

808778

[82] Anti-jemmy device



Nº

13

From rebate depth 24 mm

792786

[illegible]

**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						Nº
1201 – 1600	601 – 800	1380	Y	2	V	355745
1601 – 2000	801 – 1000	1780	Y	2	V	795390
2001 – 2400	1001 – 1200	2180	Y	4	V	795393

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
2401 – 2600	200 KU	1	V	337708
2601 – 2800	400 KU	1	V	337710
2801 – 3000	600 KU	1	V	337711

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
1001 – 1200	200 KU	1	V	337708
1201 – 1400	400 KU	1	V	337710
1401 – 1600	600 KU	1	V	337711

[18] Multipart centre lock – standard, vertical

				Nº
200	N	1	V	296853
200	Y	1	V	337708
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	600	1	V	296855
1401 – 1600	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1601 – 1800	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
1801 – 2000	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2001 – 2200	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2201 – 2400	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2401 – 2600	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2601 – 2800	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
2801 – 3000	200	1	V	296853
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711

with anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	200 KU	1	V	337708
	400	1	V	296854
1401 – 1600	200 KU	1	V	337708
	200 KU	1	V	337708
	600	1	V	296855
1601 – 1800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853

				Nº
1801 – 2000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
2001 – 2200	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2201 – 2400	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2401 – 2600	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2601 – 2800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:
Without turn restrictor

				Nº
600 – 690	200	1	V	296853
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855
1091 – 1290	600 KU	1	V	337711
	200	1	V	296853
1291 – 1490	600 KU	1	V	337711
	400	1	V	296854

				Nº
1491 – 1600	600 KU	1	V	337711
	600	1	V	296855

With turn restrictor

				Nº
601 – 1000	200	1	V	255282
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855
1401 – 1600	600 KU	1	V	337711
	200	1	V	255282

[24] Security striker → from page 142

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component
→ from page 145

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9	600 – 800	350	20	12	Left	613978
12/20-9						
12/18-9	600 – 800	350	20	12	Right	613979
12/20-9						
12/18-9	801 – 1000	500	20	12	Left	613980
12/20-9						
12/18-9	801 – 1000	500	20	12	Right	613981
12/20-9						
12/18-9	600 – 800	350	29	12	Left	562007
12/20-9						
12/18-9	600 – 800	350	29	12	Right	562008
12/20-9						
12/18-9	801 – 1000	500	29	12	Left	562009
12/20-9						
12/18-9	801 – 1000	500	29	12	Right	562010
12/20-9						
12/18-13	600 – 800	350	29	12	Left	562003
12/20-13						
12/18-13	600 – 800	350	29	12	Right	562004
12/20-13						
12/18-13	801 – 1000	500	29	12	Left	562005
12/20-13						
12/18-13	801 – 1000	500	29	12	Right	562006
12/20-13						

**[39] Stay bearing**

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Screw-on

Nº

264625

[82] Anti-jemmy device

Nº

13

From rebate depth 24 mm

792786

Optional**[63] Night vent → from page 147****INFO**

Only for use in conjunction with P or V cam.

[65] Anti-slam device

Nº

Left

823439

Right

823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

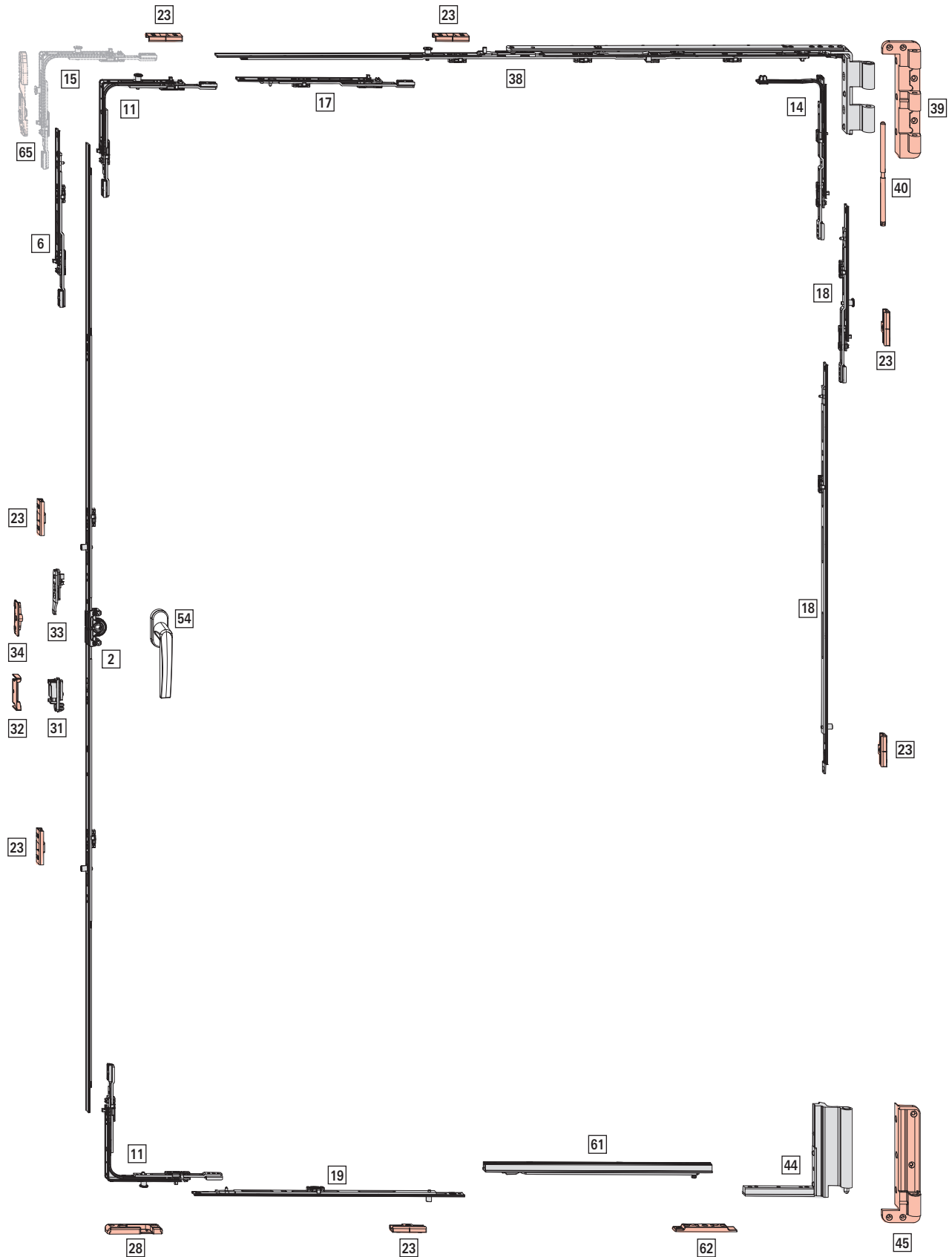
[66] Support plate for anti-slam device, not sh.

Nº

Support plate for anti-slam device

808778

4.2.2.1 Basic security



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	—	—	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

		 [#]		Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[11] Standard corner drive

1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	—	—	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

		 [#]		Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

		 #		Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – bottom

		 [#]		Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

1101 – 1600	600	1	E	255281

With turn restrictor

		 #		Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141**[28] Tilt striker TiltFirst → from page 140****[31] Bullet catch sash component (optional SRH ≥ 1601 mm)**

Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component → from page 145**[38] T&T sash stay set, TiltFirst**

						Nº
12/18-9 12/20-9	600 – 800	350	29	12	Left	602043
12/18-9 12/20-9	600 – 800	350	29	12	Right	602044

						Nº
12/18-9 12/20-9	801 – 1000	500	29	12	Left	602045
12/18-9 12/20-9	801 – 1000	500	29	12	Right	602046
12/18-13 12/20-13	600 – 800	350	29	12	Left	602039
12/18-13 12/20-13	600 – 800	350	29	12	Right	602040
12/18-13 12/20-13	801 – 1000	500	29	12	Left	602041
12/18-13 12/20-13	801 – 1000	500	29	12	Right	602042

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1



INFO

Use the lockable TiltFirst handle for child safe windows, see CTL_1.

[61] Turn restrictor 335, sash component

		Nº
12	Selectable final position	260565



INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

Optional

[15] Corner drive, standard (security)

		Nº
2	V	260274

[65] Anti-slam device

	Nº
Left	823439
Right	823438



INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.



INFO

Only for use in conjunction with P or V cam.

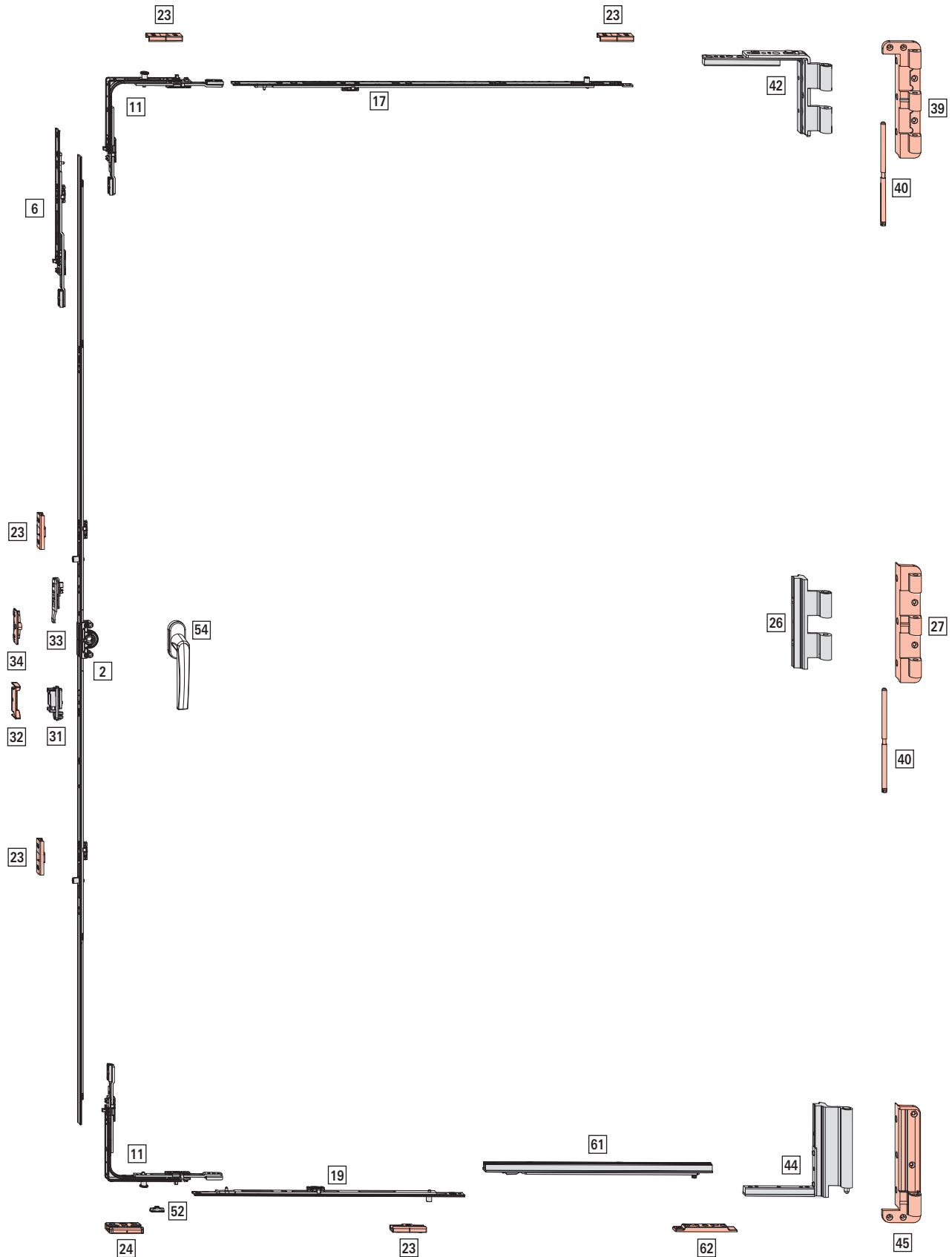
[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778



4.2.3 Turn-Only hardware

4.2.3.1 Basic security





Application range

SRW: 400 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 300 kg

[2] T&T espagnolette – centred / variable handle height, backset 15 mm

							Nº
1201 – 1600	601 – 800	1380	Y	2	E		259721
1601 – 2000	801 – 1000	1780	Y	2	E		795389
2001 – 2400	1001 – 1200	2180	Y	4	E		795392

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

					Nº
200	Y	–	–		308267
400	Y	1	E		280346
600	Y	1	E		255282

Size-specific combinations:

					Nº
2401 – 2600	200 KU	–	–		308267
2601 – 2800	400 KU	1	E		280346
2801 – 3000	600 KU	1	E		255282

[11] Standard corner drive

				Nº
1	E	Top		260275
1	P	Top Bottom		260277

[17] Centre lock, multipart – standard, horizontal – top

				Nº
600	N	1	E	255281

Size-specific combinations:

				Nº
1101 – 1600	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280

					Nº
1201 – 1600	600	1	E		255281

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

			Nº
12/18-9 12/20-9	20	12	613973
12/18-9 12/20-9	29	12	561996
12/18-13 12/20-13	29	12	561995

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	561994



INFO

A stay-bearing pin is required for each central bearing.

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component → from page 145

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[52] 90° travel restrictor

	Nº
Travel restrictor	264603

[54] Handle → CTL_1

[61] Turn restrictor 335, sash component

		Nº
12	Selectable final position	260565



INFO

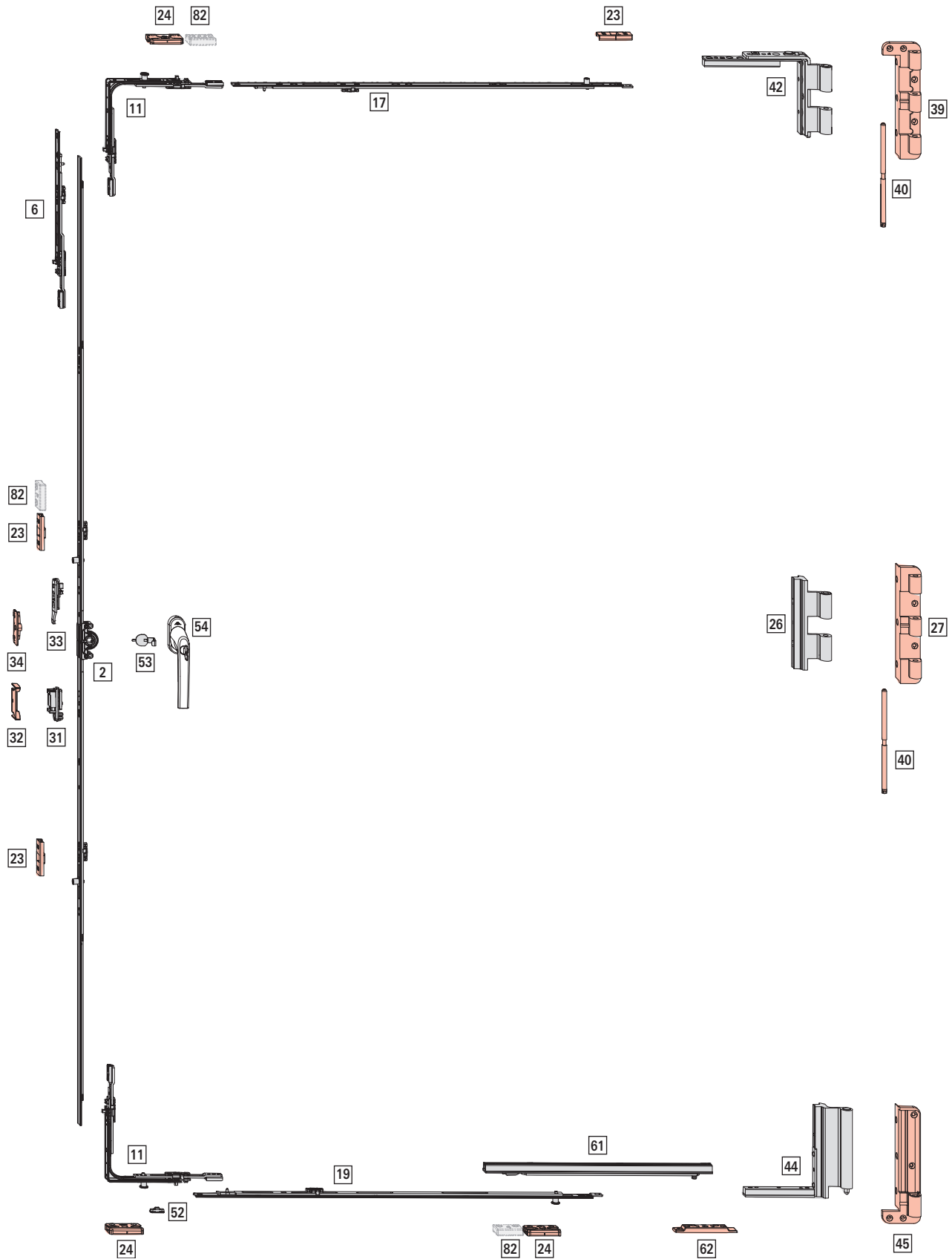
Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625



4.2.3.2 RC 1 N





Application range

SRW: 400 – 1600 mm

SRH: 1200 – 3000 mm

S.kg: max. 300 kg

[2] T&T espagnolette – centred / variable handle height, backset 15 mm

						Nº
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

					Nº
200	Y	–	–	–	308267
400	Y	1	–	E	280346
600	Y	1	–	E	255282

Size-specific combinations:

					Nº
2401 – 2600	200 KU	–	–	–	308267
2601 – 2800	400 KU	1	–	E	280346
2801 – 3000	600 KU	1	–	E	255282

[11] Standard corner drive

		Nº
1	P	260277

[17] Centre lock, multipart – standard, horizontal – top

					Nº
200	N	1	–	P	255284
400	N	1	–	P	255285
600	N	1	–	P	255286
600	Y	1	–	P	622882

Size-specific combinations:

					Nº
600 – 800	200	1	–	P	255284
801 – 1000	400	1	–	P	255285
1001 – 1200	600	1	–	P	255286
1201 – 1400	600 KU	1	–	P	622882
	200	1	–	P	255284
1401 – 1600	600 KU	1	–	P	622882
	400	1	–	P	255285

[19] Centre lock, multipart – standard, horizontal – bottom

					Nº
200	N	1	–	P	255284
400	N	1	–	P	255285
600	Y	1	–	E	255282
600	N	1	–	P	255286

					Nº
600	Y	1	–	P	622882

Size-specific combinations:

Without turn restrictor

					Nº
600 – 800	200	1	–	P	255284
801 – 1000	400	1	–	P	255285
1001 – 1200	600	1	–	P	255286
1201 – 1400	600 KU	1	–	P	622882
	200	1	–	P	255284
1401 – 1600	600 KU	1	–	P	622882
	400	1	–	P	255285

With turn restrictor

					Nº
801 – 1000	200	1	–	P	255284
1001 – 1200	400	1	–	P	255285
1201 – 1400	600	1	–	P	255286
1401 – 1600	600 KU	1	–	E	255282
	200	1	–	P	255284

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

					Nº
12/18-9	20	12	–	–	613973
12/20-9	29	12	–	–	561996
12/18-9	29	12	–	–	561996
12/20-9	29	12	–	–	561995
12/18-13	29	12	–	–	561995
12/20-13	29	12	–	–	561995

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

					Nº
12/18-9	20	12	–	–	613972
12/18-13	29	12	–	–	561994
12/20-9	29	12	–	–	561994
12/20-13	29	12	–	–	561994
12/18-9	29	12	–	–	561994
12/18-13	29	12	–	–	561994
12/20-9	29	12	–	–	561994
12/20-13	29	12	–	–	561994



INFO

A stay-bearing pin is required for each central bearing.

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

Nº

Bullet catch sash component	788363
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[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

Nº

Sash component for lifting mishandling device	795927
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[34] Lifting mishandling device frame component → from page 145**[39] Stay bearing**

Nº

12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

Nº

153	562065
-----	--------

[42] Rebate stay hinge

Nº

12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

Nº

12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988



Nº

12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

Nº

12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[52] 90° travel restrictor

Nº

Travel restrictor	264603
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[53] Drilling protection

Nº

Drilling protection	797819
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[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

Nº

12	Selectable final position	260565
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**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Nº

Screw-on	264625
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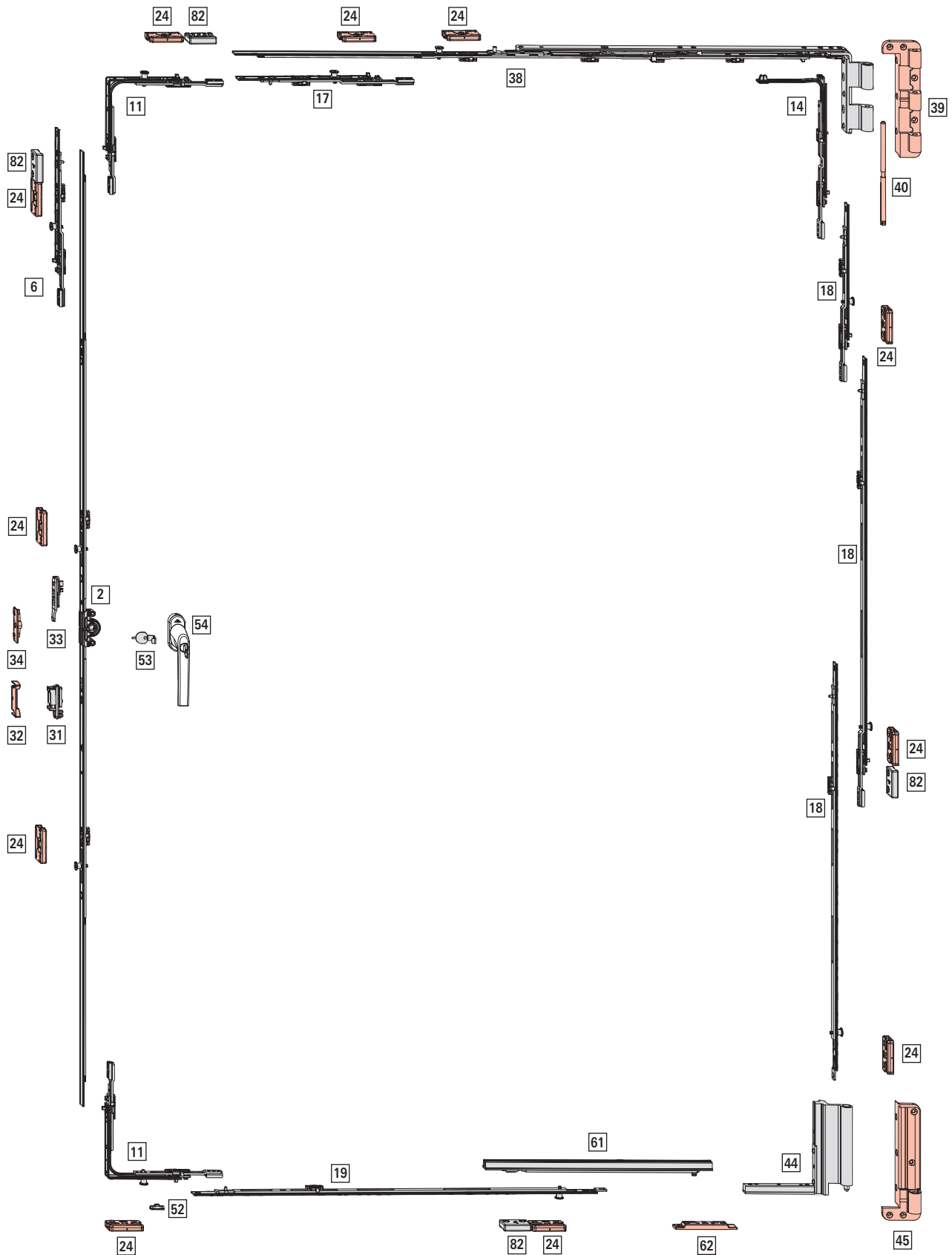
Optional**[82] Anti-jemmy device**

Nº

13	From rebate depth 24 mm	792786
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4.2.3.3 RC 2 / RC 2 N



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						Nº
1201 – 1600	601 – 800	1380	Y	2	V	355745
1601 – 2000	801 – 1000	1780	Y	2	V	795390
2001 – 2400	1001 – 1200	2180	Y	4	V	795393

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
2401 – 2600	200 KU	1	V	337708
2601 – 2800	400 KU	1	V	337710
2801 – 3000	600 KU	1	V	337711

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
1001 – 1200	200 KU	1	V	337708
1201 – 1400	400 KU	1	V	337710
1401 – 1600	600 KU	1	V	337711

[18] Multipart centre lock – standard, vertical

				Nº
200	N	1	V	296853
200	Y	1	V	337708
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

				Nº
1200 – 1400	200 KU	1	V	337708
	600	1	V	296855
1401 – 1600	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1601 – 1800	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
1801 – 2000	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2001 – 2200	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2201 – 2400	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2401 – 2600	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2601 – 2800	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2801 – 3000	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

Without turn restrictor

				Nº
600 – 690	200	1	V	296853
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855

				Nº
1091 – 1290	600 KU	1	V	337711
	200	1	V	296853
1291 – 1490	600 KU	1	V	337711
	400	1	V	296854
1491 – 1600	600 KU	1	V	337711
	600	1	V	296855

With turn restrictor

				Nº
800 – 1000	200	1	V	296853
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855
1401 – 1600	600 KU	1	V	337711
	200	1	V	296853

[24] Security striker → from page 142

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[34] Lifting mishandling device frame component
→ from page 145

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[52] 90° travel restrictor

	Nº
Travel restrictor	264603

[53] Drilling protection

	Nº
Drilling protection	797819



[54] Handle, lockable → CTL_1

[61] Turn restrictor 335, sash component



Nº

12

Selectable final position

260565



INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component



Nº

Screw-on

264625

[82] Anti-jemmy device



Nº

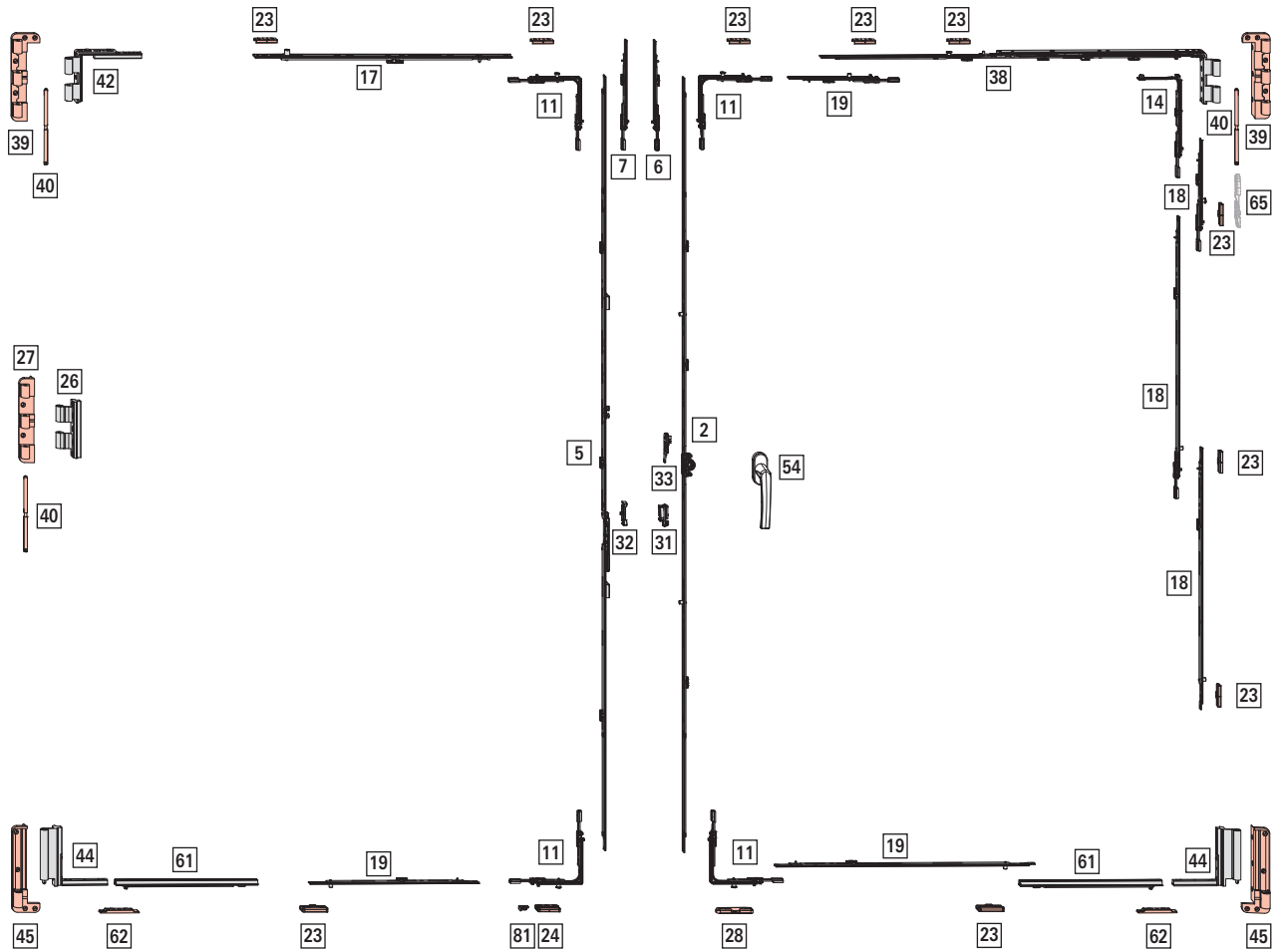
13

From rebate depth 24 mm

792786

4.2.4 Floating-mullion hardware

4.2.4.1 Standard – basic security



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

							Nº
1201 – 1600	601 – 800	1380	Y	2	E		259721
1601 – 2000	801 – 1000	1780	Y	2	E		795389
2001 – 2400	1001 – 1200	2180	Y	4	E		795392

[5] Floating-mullion espagnolette – centred / variable handle height, backset 15 mm

			Nº
1201 – 1600	448 – 658	1380	763127
1601 – 2000	680 – 880	1780	795482
2001 – 2400	880 – 1080	2180	795484

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
600	N	1	E	255281

Size-specific combinations:

				Nº
1101 – 1600	600	1	E	255281

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141**[24] Security striker** → from page 142**[26] Central hinge, sash component**

			Nº
12/18-9 12/20-9	20	12	613973
12/18-9 12/20-9	29	12	561996
12/18-13 12/20-13	29	12	561995

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	561994

**INFO**

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139**[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980

						Nº
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971



					Nº
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.**Nº**

Support plate for anti-slam device

808778

This diagram shows an exploded view of a mechanical assembly, likely a door handle or latch mechanism. The components are numbered as follows:

- Top Left:** 39, 40, 42
- Top Center:** 24, 17, 11, 7, 6
- Top Right:** 24, 11, 19, 23, 82, 38, 14, 40, 39, 24, 65, 82, 24, 82, 18, 23
- Middle Left:** 27, 26, 40
- Middle Center:** 5, 33, 32, 31, 2, 53, 54
- Middle Right:** 18, 18, 23
- Bottom Left:** 45, 44, 61, 62, 82, 24, 19, 11, 81, 24
- Bottom Center:** 11, 19, 28
- Bottom Right:** 19, 61, 44, 62, 82, 24, 45

The diagram illustrates the spatial arrangement and assembly sequence of these parts, showing how they fit together to form the complete mechanism.

**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						Nº
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[5] Floating-mullion espagnolette – centred / variable handle height, backset 15 mm

			Nº
1201 – 1600	448 – 658	1380	763127
1601 – 2000	680 – 880	1780	795482
2001 – 2400	880 – 1080	2180	795484

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	P	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	P	622882

Size-specific combinations:

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255286
1201 – 1400	600 KU	1	P	622882
	200	1	P	255284
1401 – 1600	600 KU	1	P	622882
	400	1	P	255285

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	P	622880
400	N	1	E	255280
600	N	1	E	255281
600	Y	1	E	255282

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

with anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	200 KU	1	P	622880
	400	1	E	255280
1801 – 2600	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	400	1	E	255280
2601 – 3000	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	400	1	E	255280

[19] Centre lock, multipart – standard, horizontal
– top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal
– bottom

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	E	255282

Size-specific combinations:

Without turn restrictor

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255285
1201 – 1400	600 KU	1	E	255282
	200	1	P	255284
1401 – 1600	600 KU	1	E	255282
	400	1	P	255285

With turn restrictor

				Nº
801 – 1000	200	1	P	255284
1001 – 1200	400	1	P	255285
1201 – 1400	600	1	P	255286
1401 – 1600	600 KU	1	E	255282
	200	1	P	255284

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

			Nº
12/18-9	20	12	613973
12/20-9			
12/18-9	29	12	561996
12/20-9			
12/18-13	29	12	561995
12/20-13			

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9	20	12	613972
12/18-13			
12/20-9			
12/20-13			
12/18-9	29	12	561994
12/18-13			
12/20-9			
12/20-13			



INFO

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9	600 – 800	350	20	12	Left	613978
12/20-9						
12/18-9	600 – 800	350	20	12	Right	613979
12/20-9						
12/18-9	801 – 1000	500	20	12	Left	613980
12/20-9						
12/18-9	801 – 1000	500	20	12	Right	613981
12/20-9						
12/18-9	600 – 800	350	29	12	Left	562007
12/20-9						
12/18-9	600 – 800	350	29	12	Right	562008
12/20-9						
12/18-9	801 – 1000	500	29	12	Left	562009
12/20-9						
12/18-9	801 – 1000	500	29	12	Right	562010
12/20-9						
12/18-13	600 – 800	350	29	12	Left	562003
12/20-13						
12/18-13	600 – 800	350	29	12	Right	562004
12/20-13						
12/18-13	801 – 1000	500	29	12	Left	562005
12/20-13						
12/18-13	801 – 1000	500	29	12	Right	562006
12/20-13						

**[39] Stay bearing**

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.

INFO

Only for use in conjunction with P or V cam.

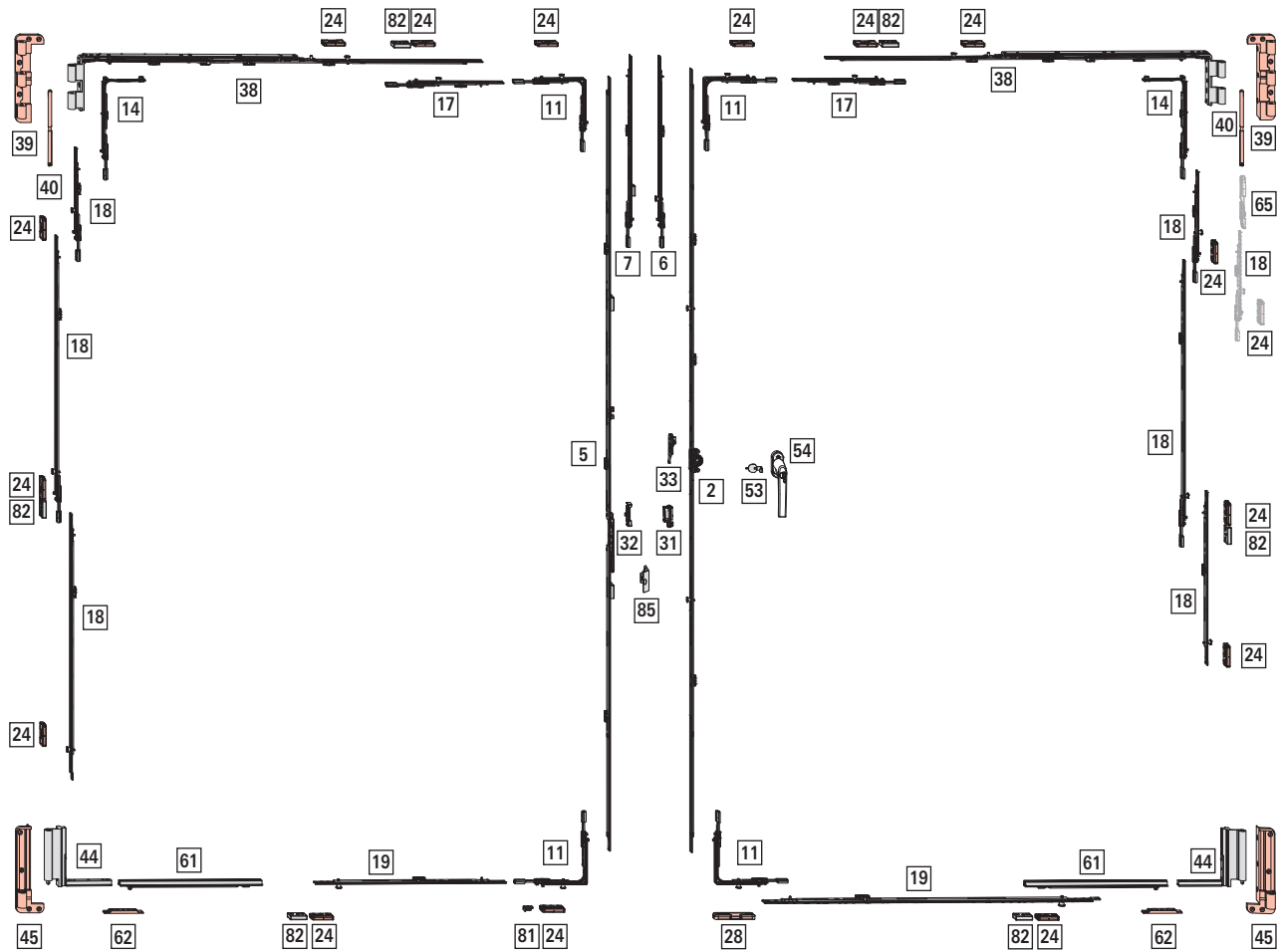
[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

4.2.4.3 Standard – RC 2 / RC 2 N



**Application range**

SRW: 600 – 1400 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[2] T&T espagnolette – centred / variable handle height, backset 15 mm

						Nº
1201 – 1600	601 – 800	1380	Y	2	V	355745
1601 – 2000	801 – 1000	1780	Y	2	V	795390
2001 – 2400	1001 – 1200	2180	Y	4	V	795393

[5] Floating-mullion espagnolette – centred / variable handle height, backset 15 mm

			Nº
1201 – 1600	448 – 658	1380	763127
1601 – 2000	680 – 880	1780	795482
2001 – 2400	880 – 1080	2180	795484

Follow the instructions for cropping → *from page 158.***[6] Centre lock, multipart, (SRH ≥ 2401 mm)**

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
2401 – 2600	200 KU	1	V	337708
2601 – 2800	400 KU	1	V	337710
2801 – 3000	600 KU	1	V	337711

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	1	450822
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	1	450822
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
1001 – 1200	200 KU	1	V	337708
1201 – 1400	400 KU	1	V	337710
1401 – 1600	600 KU	1	V	337711

[18] Multipart centre lock – standard, vertical

				Nº
200	N	1	V	296853
200	Y	1	V	337708
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	600	1	V	296855
1401 – 1600	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1601 – 1800	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
1801 – 2000	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2001 – 2200	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2201 – 2400	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2401 – 2600	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2601 – 2800	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

				Nº
2801 – 3000	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854

with anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	200 KU	1	V	337708
	400	1	V	296854
1401 – 1600	200 KU	1	V	337708
	200 KU	1	V	337708
	600	1	V	296855
1601 – 1800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1801 – 2000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
2001 – 2200	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2201 – 2400	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2401 – 2600	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
2601 – 2800	400	1	V	296854
	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
2801 – 3000	600	1	V	296855
	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

Without turn restrictor

				Nº
601 – 1000	200	1	V	255282
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855
1401 – 1600	600 KU	1	V	337711
	200	1	V	255282

With turn restrictor

				Nº
601 – 1000	200	1	V	255282
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855
1401 – 1600	600 KU	1	V	337711
	200	1	V	255282

[24] Security striker → from page 142**[28] Tilt striker → from page 139****[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
					Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
					Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
					Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009



						Nº
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

[85] Retainer clasp

	Nº
Retainer clasp for lever-operated espagnolette	314203

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.

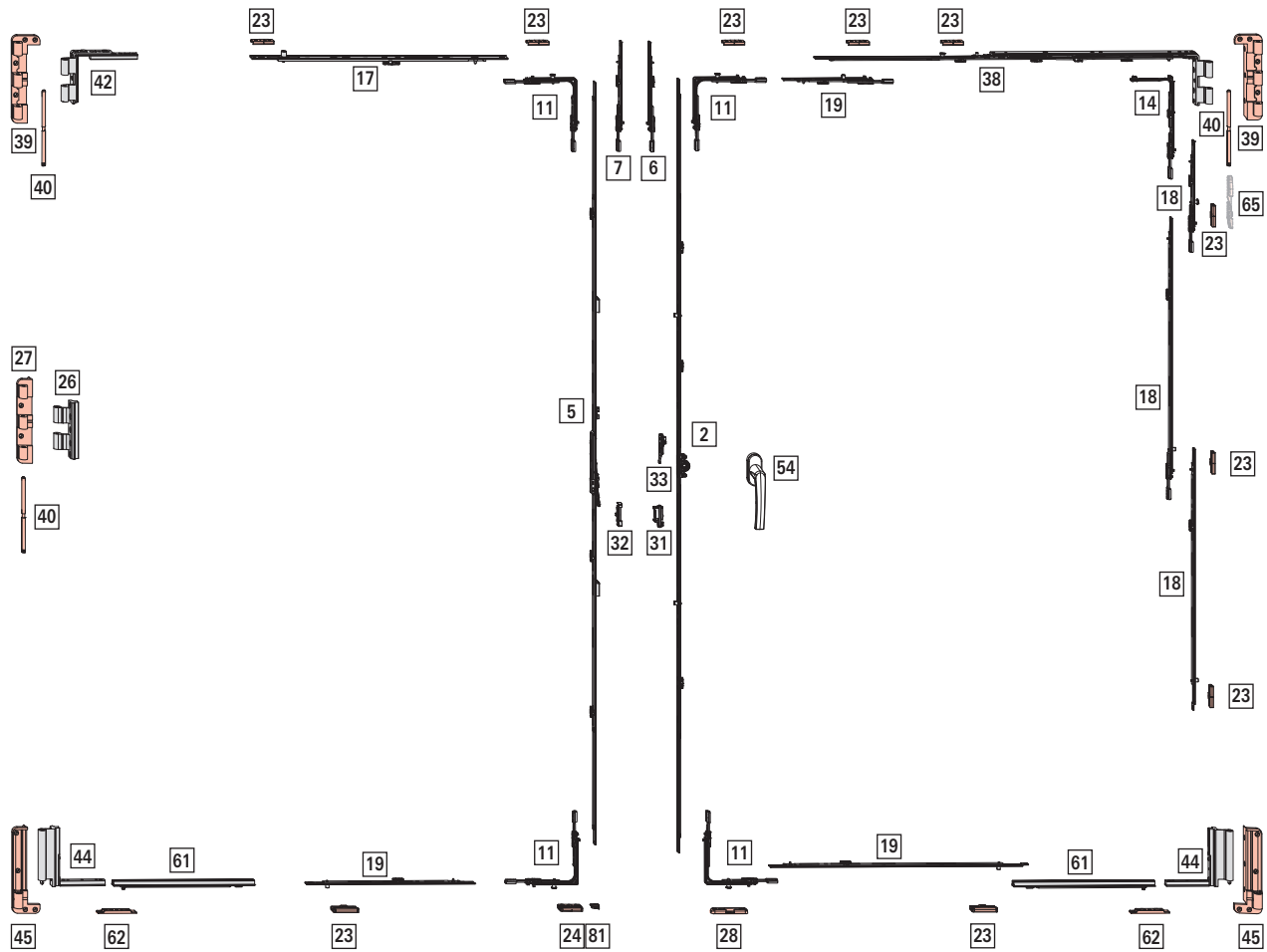
INFO

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

	Nº
Support plate for anti-slam device	808778

4.2.4.4 Plus – basic security



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						Nº
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[5] Floating-mullion espagnolette, Plus – centred / variable handle height, backset 15 mm

				Nº
1201 – 1600	580 – 779	1380	2	2007132
1601 – 2000	780 – 979	1780	2	2007133
2001 – 2400	980 – 1179	2180	4	2007134

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

			Nº
1	E	Top	260275
1	P	Top Bottom	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
600	N	1	E	255281

Size-specific combinations:

				Nº
1101 – 1600	600	1	E	255281

[18] Multipart centre lock – standard, vertical

				Nº
Y	200	1	P	622880
N	600	1	E	255281
Y	600	1	E	255282

Size-specific combinations:

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

[19] Centre lock, multipart – standard, horizontal – top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
400	N	1	E	255280
600	N	1	E	255281

Size-specific combinations:

Without turn restrictor

				Nº
1101 – 1600	600	1	E	255281

With turn restrictor

				Nº
1001 – 1200	400	1	E	255280
1201 – 1600	600	1	E	255281

[23] Striker → from page 141**[24] Security striker** → from page 142**[26] Central hinge, sash component**

			Nº
12/18-9 12/20-9	20	12	613973
12/18-9 12/20-9	29	12	561996
12/18-13 12/20-13	29	12	561995

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	613972
12/18-9 12/18-13 12/20-9 12/20-13	29	12	561994

**INFO**

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139**[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
12/18-9 12/20-9	600 – 800	350	20	12	Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980

						Nº
12/18-9 12/20-9	801 – 1000	500	20	12	Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
12/18-9 12/20-9	600 – 800	350	29	12	Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[42] Rebate stay hinge

				Nº
12/18-9 12/20-9	20	12	Left	613976
12/18-9 12/20-9	20	12	Right	613977
12/18-9 12/20-9	29	12	Left	562001
12/18-9 12/20-9	29	12	Right	562002
12/18-13 12/20-13	29	12	Left	561999
12/18-13 12/20-13	29	12	Right	562000

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971



					Nº
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[54] Handle → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**

	Nº
Left	823439
Right	823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

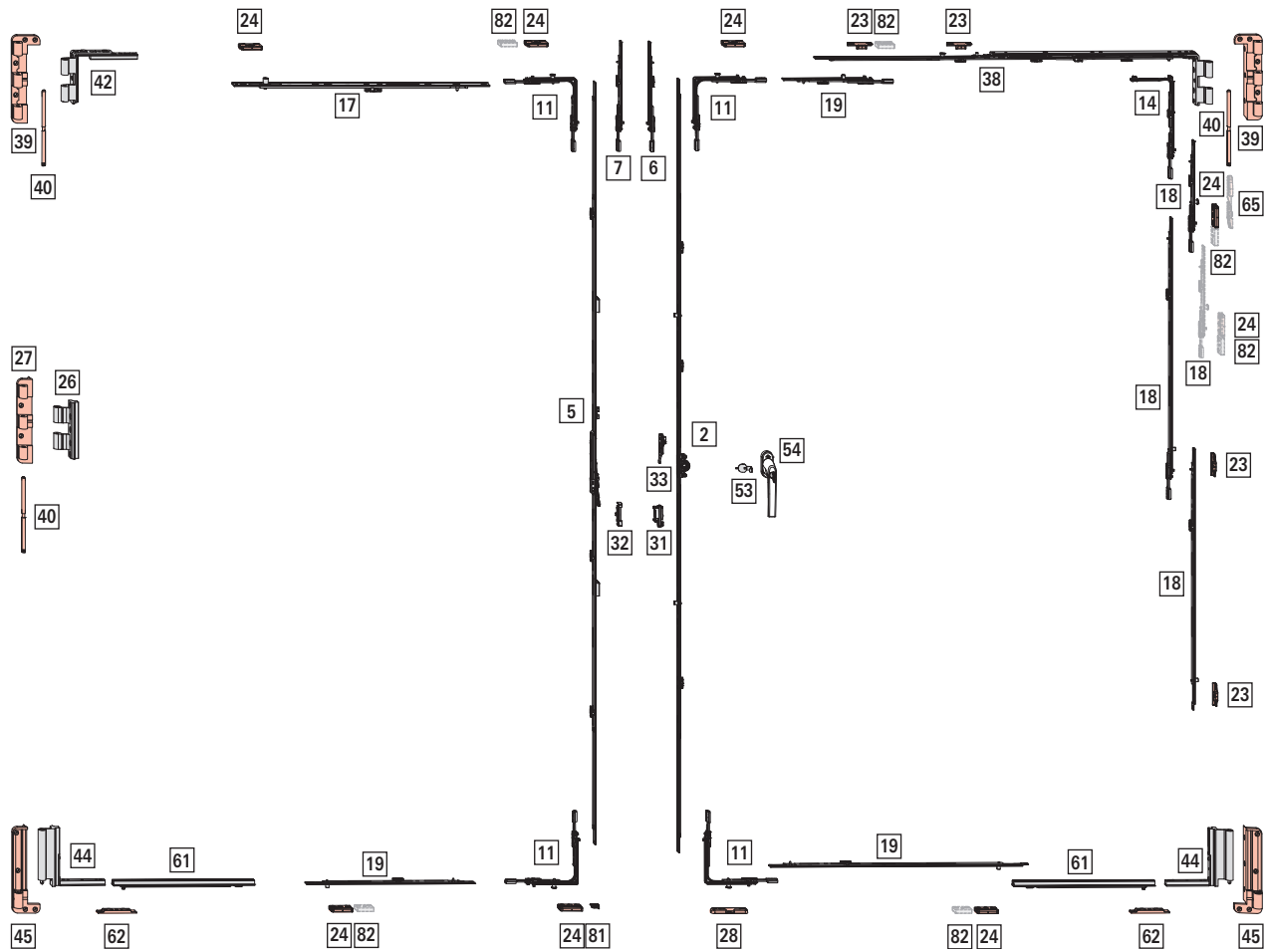
Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.**Nº**

Support plate for anti-slam device

808778

4.2.4.5 Plus – RC 1 N



**Application range****SRW:** 600 – 1600 mm**SRH:** 1200 – 3000 mm**S.kg:** max. 200 kg**[2] T&T espagnolette – centred / variable handle height, backset 15 mm**

						Nº
1201 – 1600	601 – 800	1380	Y	2	E	259721
1601 – 2000	801 – 1000	1780	Y	2	E	795389
2001 – 2400	1001 – 1200	2180	Y	4	E	795392

[5] Floating-mullion espagnolette, Plus – centred / variable handle height, backset 15 mm

				Nº
1201 – 1600	580 – 779	1380	2	2007132
1601 – 2000	780 – 979	1780	2	2007133
2001 – 2400	980 – 1179	2180	4	2007134

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
2401 – 2600	200 KU	–	–	308267
2601 – 2800	400 KU	1	E	280346
2801 – 3000	600 KU	1	E	255282

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	–	308267
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	–	308267
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	P	260277

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Multipart centre lock – standard, horizontal – top, Turn-Only sash

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	P	622882

Size-specific combinations:

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255286
1201 – 1400	600 KU	1	P	622882
	200	1	P	255284
1401 – 1600	600 KU	1	P	622882
	400	1	P	255285

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	P	622880
400	N	1	E	255280
600	N	1	E	255281
600	Y	1	E	255282

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	600	1	E	255281
1801 – 2600	200 KU	1	P	622880
	600 KU	1	E	255282
	600	1	E	255281
2601 – 3000	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	600	1	E	255281

with anti-slam device

				Nº
1200 – 1800	200 KU	1	P	622880
	200 KU	1	P	622880
	400	1	E	255280
1801 – 2600	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	400	1	E	255280
2601 – 3000	200 KU	1	P	622880
	200 KU	1	P	622880
	600 KU	1	E	255282
	600 KU	1	E	255282
	400	1	E	255280

[19] Centre lock, multipart – standard, horizontal
– top, first opening sash

				Nº
200	Y	–	–	308267
400	Y	1	E	280346
600	Y	1	E	255282

Size-specific combinations:

				Nº
1001 – 1200	200 KU	–	–	308267
1201 – 1400	400 KU	1	E	280346
1401 – 1600	600 KU	1	E	255282

[19] Centre lock, multipart – standard, horizontal
– bottom

				Nº
200	N	1	P	255284
400	N	1	P	255285
600	N	1	P	255286
600	Y	1	E	255282

Size-specific combinations:

Without turn restrictor

				Nº
600 – 800	200	1	P	255284
801 – 1000	400	1	P	255285
1001 – 1200	600	1	P	255285
1201 – 1400	600 KU	1	E	255282
	200	1	P	255284
1401 – 1600	600 KU	1	E	255282
	400	1	P	255285

With turn restrictor

				Nº
801 – 1000	200	1	P	255284
1001 – 1200	400	1	P	255285
1201 – 1400	600	1	P	255286
1401 – 1600	600 KU	1	E	255282
	200	1	P	255284

[23] Striker → from page 141

[24] Security striker → from page 142

[26] Central hinge, sash component

			Nº
12/18-9	20	12	613973
12/20-9			
12/18-9	29	12	561996
12/20-9			
12/18-13	29	12	561995
12/20-13			

SRH 1200 – 2000: 1 central hinge

SRH 2001 – 3000: 2 central hinges

[27] Central bearing, frame component

			Nº
12/18-9	20	12	613972
12/18-13			
12/20-9			
12/20-13			
12/18-9	29	12	561994
12/18-13			
12/20-9			
12/20-13			



INFO

A stay-bearing pin is required for each central bearing.

[28] Tilt striker → from page 139

[31] Bullet catch sash component (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146

[33] Lifting mishandling device sash component

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9	600 – 800	350	20	12	Left	613978
12/20-9						
12/18-9	600 – 800	350	20	12	Right	613979
12/20-9						
12/18-9	801 – 1000	500	20	12	Left	613980
12/20-9						
12/18-9	801 – 1000	500	20	12	Right	613981
12/20-9						
12/18-9	600 – 800	350	29	12	Left	562007
12/20-9						
12/18-9	600 – 800	350	29	12	Right	562008
12/20-9						
12/18-9	801 – 1000	500	29	12	Left	562009
12/20-9						
12/18-9	801 – 1000	500	29	12	Right	562010
12/20-9						
12/18-13	600 – 800	350	29	12	Left	562003
12/20-13						
12/18-13	600 – 800	350	29	12	Right	562004
12/20-13						
12/18-13	801 – 1000	500	29	12	Left	562005
12/20-13						
12/18-13	801 – 1000	500	29	12	Right	562006
12/20-13						

**[39] Stay bearing**

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

**INFO**

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

Screw-on

Nº

264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

Optional**[65] Anti-slam device**Left
Right

Nº

823439

823438

**INFO**

Only for hardware axis 13 and from a rebate depth of 24 mm.

**INFO**

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.

Support plate for anti-slam device

Nº

808778

[82] Anti-jemmy device

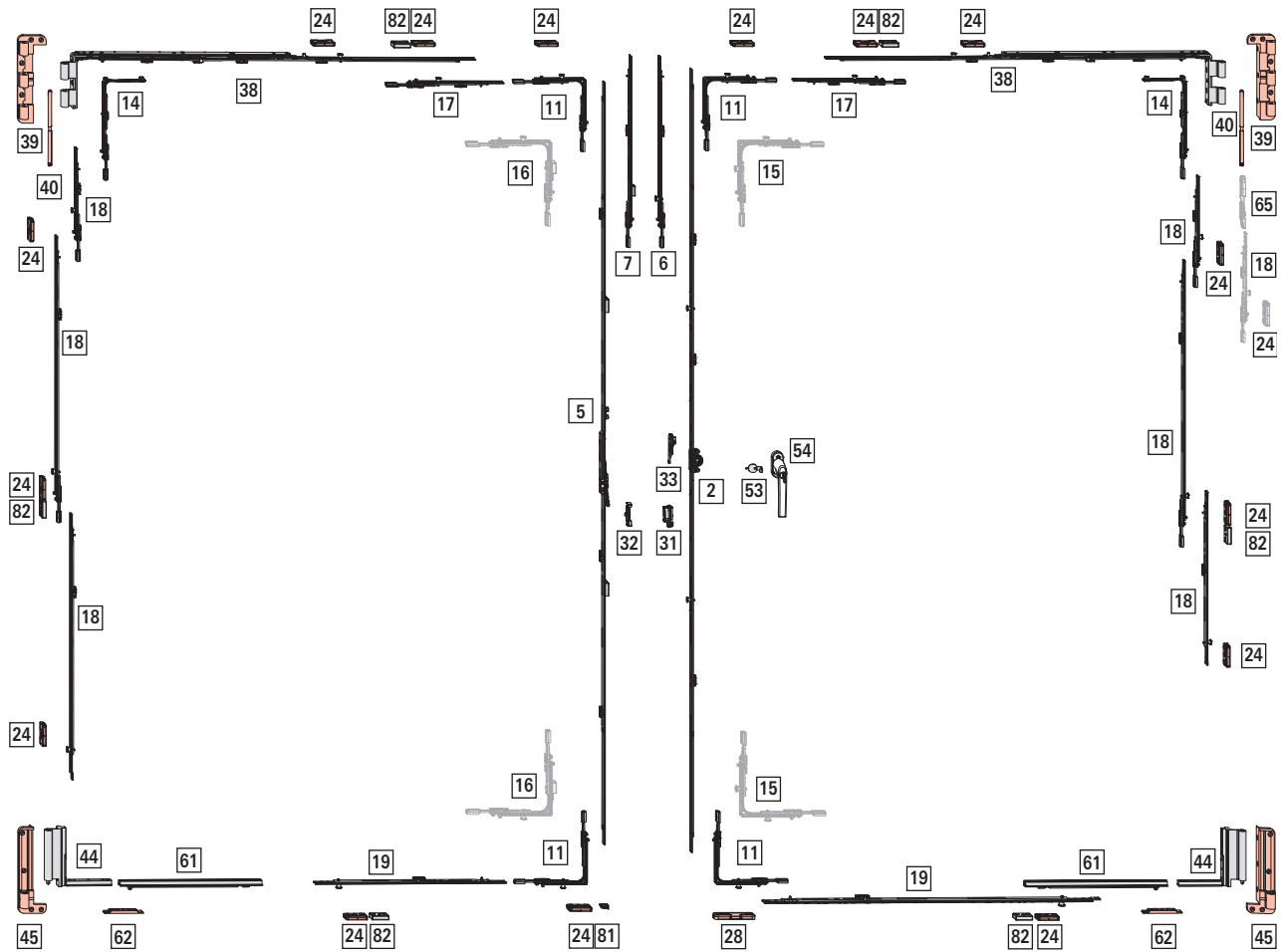
13

From rebate depth 24 mm

Nº

792786

4.2.4.6 Plus – RC 2 / RC 2 N



**Application range**

SRW: 600 – 1400 mm

SRH: 1200 – 3000 mm

S.kg: max. 200 kg

[2] T&T espagnolette – centred / variable handle height, backset 15 mm

						Nº
1201 – 1600	601 – 800	1380	Y	2	V	355745
1601 – 2000	801 – 1000	1780	Y	2	V	795390
2001 – 2400	1001 – 1200	2180	Y	4	V	795393

[5] Floating-mullion espagnolette, Plus – centred / variable handle height, backset 15 mm

					Nº
1201 – 1600	580 – 779	1380	2		2007132
1601 – 2000	780 – 979	1780	2		2007133
2001 – 2400	980 – 1179	2180	4		2007134

[6] Centre lock, multipart, (SRH ≥ 2401 mm)

				Nº
200	Y	1	V	337708
400	Y	1	V	337710
600	Y	1	V	337711

Size-specific combinations:

				Nº
2401 – 2600	200 KU	1	V	337708
2601 – 2800	400 KU	1	V	337710
2801 – 3000	600 KU	1	V	337711

[7] Centre lock, multipart – floating mullion, (SRH ≥ 2401 mm)

			Nº
200	Y	1	450822
400	Y	1	280345
600	Y	1	280331

Size-specific combinations:

			Nº
2401 – 2600	200 KU	1	450822
2601 – 2800	400 KU	1	280345
2801 – 3000	600 KU	1	280331

[11] Standard corner drive

		Nº
1	V	260272

[14] Sash stay corner drive

		Nº
–	–	293521

[17] Centre lock, multipart – standard, horizontal – top

				Nº
200	Y	1	V	337708
400	Y	1	V	337710

Size-specific combinations:

				Nº
1001 – 1200	200 KU	1	V	337708
1201 – 1400	400 KU	1	V	337710

[18] Multipart centre lock – standard, vertical

				Nº
200	Y	1	V	337708
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

without anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	600	1	V	296855
1401 – 1600	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1601 – 1800	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
1801 – 2000	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2001 – 2200	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2201 – 2400	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2401 – 2600	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2601 – 2800	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

				Nº
2801 – 3000	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854

with anti-slam device

				Nº
1200 – 1400	200 KU	1	V	337708
	200 KU	1	V	337708
	400	1	V	296854
1401 – 1600	200 KU	1	V	337708
	200 KU	1	V	337708
	600	1	V	296855
1601 – 1800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	200	1	V	296853
1801 – 2000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	400	1	V	296854
2001 – 2200	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600	1	V	296855
2201 – 2400	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853
2401 – 2600	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	400	1	V	296854
2601 – 2800	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600	1	V	296855
2801 – 3000	200 KU	1	V	337708
	200 KU	1	V	337708
	600 KU	1	V	337711
	600 KU	1	V	337711
	600 KU	1	V	337711
	200	1	V	296853

[19] Centre lock, multipart – standard, horizontal – bottom

				Nº
200	N	1	V	296853
400	N	1	V	296854
600	N	1	V	296855
600	Y	1	V	337711

Size-specific combinations:

Without turn restrictor

				Nº
60 – 690	200	1	V	255282
691 – 890	400	1	V	296854
891 – 1090	600	1	V	296855
1091 – 1290	600 KU	1	V	337711
	200	1	V	255282
1291 – 1400	600 KU	1	V	337711
	400	1	V	296854

With turn restrictor

				Nº
801 – 1000	200	1	V	255282
1001 – 1200	400	1	V	296854
1201 – 1400	600	1	V	296855

[24] Security striker → from page 142**[28] Tilt striker → from page 139****[31] Bullet catch sash component** (optional SRH ≥ 1601 mm)

	Nº
Bullet catch sash component	788363

[32] Bullet-catch frame component (optional SRH ≥ 1601 mm) → from page 146**[33] Lifting mishandling device sash component**

	Nº
Sash component for lifting mishandling device	795927

[38] T&T sash stay set, S.kg max. 200 kg

						Nº
12/18-9 12/20-9	600 – 800	350	20	12	Left	613978
					Right	613979
12/18-9 12/20-9	801 – 1000	500	20	12	Left	613980
					Right	613981
12/18-9 12/20-9	600 – 800	350	29	12	Left	562007
					Right	562008
12/18-9 12/20-9	801 – 1000	500	29	12	Left	562009



						Nº
12/18-9 12/20-9	801 – 1000	500	29	12	Right	562010
12/18-13 12/20-13	600 – 800	350	29	12	Left	562003
12/18-13 12/20-13	600 – 800	350	29	12	Right	562004
12/18-13 12/20-13	801 – 1000	500	29	12	Left	562005
12/18-13 12/20-13	801 – 1000	500	29	12	Right	562006

[39] Stay bearing

					Nº
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Left	613974
12/18-9 12/18-13 12/20-9 12/20-13	20	12	max. 200 kg	Right	613975
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561997
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561998

[40] Stay-bearing pin

	Nº
153	562065

[44] Rebate corner hinge

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613970
12/18-9 12/20-9	20	12	max. 200 kg	Right	613971
12/18-9 12/20-9	29	12	max. 300 kg	Left	561988
12/18-9 12/20-9	29	12	max. 300 kg	Right	561989
12/18-13 12/20-13	29	12	max. 300 kg	Left	561986
12/18-13 12/20-13	29	12	max. 300 kg	Right	561987

[45] Pivot rest

					Nº
12/18-9 12/20-9	20	12	max. 200 kg	Left	613968
12/18-9 12/20-9	20	12	max. 200 kg	Right	613969
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Left	561982
12/18-9 12/18-13 12/20-9 12/20-13	29	12	max. 300 kg	Right	561983

[53] Drilling protection

	Nº
Drilling protection	797819

[54] Handle, lockable → CTL_1**[61] Turn restrictor 335, sash component**

		Nº
12	Selectable final position	260565

INFO

Installation of a turn restrictor is mandatory with S.kg > 160 kg.

[62] Turn restrictor frame component

	Nº
Screw-on	264625

[81] Run-up block → CTL_104

The run-up block depends on the striker used.

[82] Anti-jemmy device

		Nº
13	From rebate depth 24 mm	792786

Optional**[15] Corner drive, standard (security)**

		Nº
2	V	260274

[16] Corner drive, slide guard

				Nº
Second opening sash / slide guard	Top	1	V	839223
Second opening sash / slide guard	Bottom	1	V	839224

When using a corner drive with a slide guard, a standard corner drive (RC 3) is required on the first opening sash.

[65] Anti-slam device

	Nº
Left	823439
Right	823438

INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.

INFO

Only for use in conjunction with P or V cam.

[66] Support plate for anti-slam device, not sh.



Nº

Support plate for anti-slam device

808778



5 Frame components



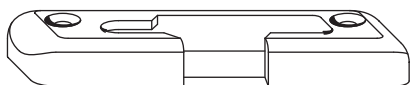
INFO

Further frame components are available upon request.

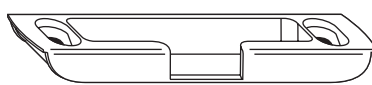
5.1 Tilt strikers

5.1.1 Standard

5.1.1.1 Zinc



A



B

Assignment	Meaning
[A]	Tilt striker, screw-on
[B]	Tilt striker, to be routed in

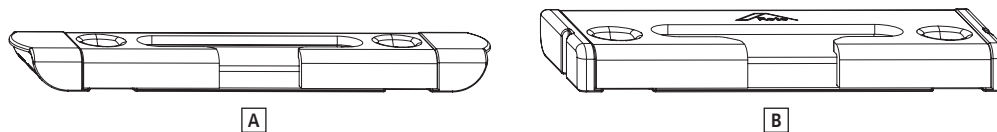
											
–	18	4	Can be routed in	N	–	–	9	Y	Roto Sil	–	318319
	25	5	Can be routed in	N	–	–	13	Y	Roto Sil	Left	627984
		5	Can be routed in	N	–	–	13	Y	Roto Sil	Right	627986
Eurofalz	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	260479
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	260480
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Left	260481
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Right	260482
	20	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	260483
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	260484
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Left	260485
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Right	260486
	24	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	261943
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	262927
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Left	261944
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Right	262929
	30	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	631525
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	631526
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Left	631502
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Right	631504
Euronut 7/8	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	260487
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	260488
Euronut 11/8	24	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	378464
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	378457



INFO

Other versions are available upon request.

5.1.1.2 Steel



Assignment	Meaning
[A]	With end caps
[B]	Without end caps

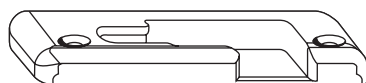
										
–	18	4	Can be routed in	N	–	With end caps	9	Y	Roto Sil	856829
Eurofalz	18	12	Screw-on	N	–	–	9	Y	Roto Sil	856827
		12	Screw-on	N	–	–	9	Y	Roto Sil	856824
	20	12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	856825
		12	Screw-on	N	–	–	13	Y	Roto Sil	858213
	24	12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	856833
		12	Screw-on	N	–	–	13	Y	Roto Sil	856835
30	12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	856834	
	12	Screw-on	N	–	–	9	Y	Roto Sil	856828	
Euronut 7/8	18	12	Screw-on	N	–	–	9	Y	Roto Sil	856826
	20	12	Screw-on	N	–	–	9	Y	Roto Sil	856826



INFO

Other versions are available upon request.

5.1.2 TiltFirst (TF)



											Nº
Eurofalz	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	287915
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	287916
	20	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	287590
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	287591
	24	12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Left	611180
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Right	612134
		12	Screw-on	N	–	–	13	Y	Roto Sil	Left	632132
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	632133
	30	12	Screw-on	N	–	Position 2 mm from the frame edge	13	Y	Roto Sil	Left	602788
		12	Screw-on	N	–	Position 2 mm from the frame edge	13	Y	Roto Sil	Right	602789
Euronut 7/8	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	287917
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	287918
Euronut 11/8	24	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	456956
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	456955



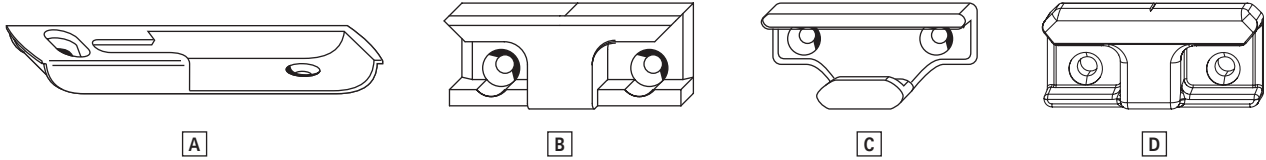
INFO

Other versions are available upon request.



5.2 Strikers

5.2.1 Standard



Assignment	Meaning
[A]	Can be routed in
[B]	Hardware axis 9 (Euro-rebate / Euro-groove)
[C]	Hardware axis 13 (Euro-rebate / Euro-groove)
[D]	Hardware axis 13 (Euro-rebate, reinforced version)

											
–	18	4	Can be routed in	N	–	–	9	Y	Roto Sil	Left	289320
		4	Can be routed in	N	–	–	9	Y	Roto Sil	Right	289321
	25	5	Can be routed in	N	–	–	13	Y	Roto Sil	Left	627988
		5	Can be routed in	N	–	–	13	Y	Roto Sil	Right	627990
Eurofalz	18	12	Screw-on	N	–	–	9	Y	Roto Sil	–	260360
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	–	260361
	20	12	Screw-on	N	–	–	9	Y	Roto Sil	–	260362
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	–	260363
	24	12	Screw-on	N	–	–	13	Y	Roto Sil	–	261933
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	–	261934
		12	Screw-on	N	–	Reinforced version	13	Y	Roto Sil	–	532873
		12	Screw-on	Y	2 x Ø 8 mm	Reinforced version	13	Y	Roto Sil	–	624076
	30	12	Screw-on	N	–	–	13	N	Roto Sil	–	599651
12		Screw-on	Y	2 x Ø 8 mm	–	13	N	Roto Sil	–	599652	
Euronut 7/8	18	12	Screw-on	N	–	–	9	Y	Roto Sil	–	378462
Euronut 11/8	24	12	Screw-on	N	–	–	13	Y	Roto Sil	–	378467



INFO

Reinforced version, not compatible with existing jig system.

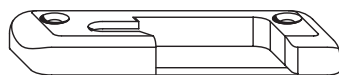


INFO

Other versions are available upon request.

5.2.2 Security

5.2.2.1 Zinc



A



B

Assignment	Meaning
[A]	Striker, right / left
[B]	Striker, symmetrical

											
–	18	4	Can be routed in	N	–	–	9	Y	Roto Sil	Left	289320
		4	Can be routed in	N	–	–	9	Y	Roto Sil	Right	289321
	25	5	Can be routed in	N	–	–	13	Y	Roto Sil	Left	627988
		5	Can be routed in	N	–	–	13	Y	Roto Sil	Right	627990
Eurofalz	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	260382
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	260383
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Left	260384
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Right	260385
	20	12	Screw-on	N	–	–	9 10	Y	Roto Sil	Left	260386
		12	Screw-on	N	–	–	9 10	Y	Roto Sil	Right	260387
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Left	259592
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Right	259593
	24	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	261935
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	262930
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Left	261936
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Right	262931
	30	12	Screw-on	N	–	–	13	Y	Roto Sil	–	631527
	Euronut 7/8	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left
12			Screw-on	N	–	–	9	Y	Roto Sil	Right	260389
Euronut 11/8	24	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	378465
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	378466

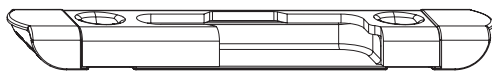


INFO

Other versions are available upon request.



5.2.2.2 Steel



A



B

Assignment	Meaning
[A]	With end caps
[B]	Without end caps

											
–	18	4	Can be routed in	N	–	With end caps	9	Y	Roto Sil	Left	856987
		4	Can be routed in	N	–	With end caps	9	Y	Roto Sil	Left	856986
Eurofalz	12	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	856982
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	856981
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Left	856988
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Right	856989
	20	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	856991
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	856990
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Left	856993
		12	Screw-on	Y	2 x Ø 8 mm	–	9	Y	Roto Sil	Right	856992
	24	12	Screw-on	N	–	–	13	Y	Roto Sil	Left	856999
		12	Screw-on	N	–	–	13	Y	Roto Sil	Right	856998
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Left	856996
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	Right	856997
30	12	Screw-on	N	–	–	13	Y	Roto Sil	–	856746	
	12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Roto Sil	–	838711	
Euronut 7/8	18	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	856984
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	856983
	20	12	Screw-on	N	–	–	9	Y	Roto Sil	Left	856995
		12	Screw-on	N	–	–	9	Y	Roto Sil	Right	856994



INFO

Other versions are available upon request.

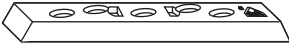
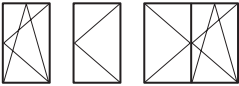


									
Eurofalz	20	12	Screw-on	For reverse-action centre locks	9	N	Roto Sil	–	Nº

For compatible reverse-action centre locks, see → *from page 28*.

5.3 Turn restrictors

5.3.1 Frame components

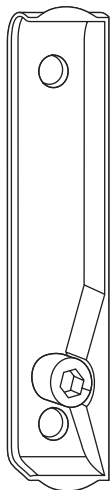


			Nº
Bearing	Screw-on	Roto Sil	264625

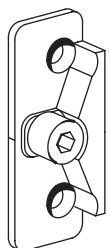


5.4 Lifting mishandling devices

5.4.1 Frame components



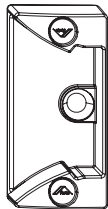
									Nº
–	18	4	Can be routed in	N	–	9	Roto Sil	Left	280120
		4	Can be routed in	N	–	9	Roto Sil	Right	280121
	24	5	Can be routed in	N	–	13	Roto Sil	Left	551744
		5	Can be routed in	N	–	13	Roto Sil	Right	551743



									Nº
Eurofalz	18	12	Screw-on	N	–	9	Roto Sil	–	260540
		12	Screw-on	Y	2 x Ø 7 mm	9	Roto Sil	–	260541
	20	12	Screw-on	N	–	9	Roto Sil	–	260542
		12	Screw-on	Y	2 x Ø 7 mm	9	Roto Sil	–	260543
	24	12	Screw-on	N	–	13	Roto Sil	–	261947
		12	Screw-on	Y	2 x Ø 7 mm	13	Roto Sil	–	261948
	30	12	Screw-on	N	–	13	Roto Sil	–	578785
		12	Screw-on	Y	2 x Ø 7 mm	13	Roto Sil	–	578786
Euronut 7/8	18	12	Screw-on	N	–	9	Roto Sil	–	383281

5.5 Bullet catches

5.5.1 Frame components

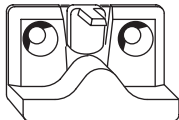


								Nº
–	18	4	Can be routed in	N	–	9	Roto Sil	788376
	24	4	Can be routed in	N	–	13	Roto Sil	788377
Eurofalz	18	12	Screw-on	N	–	9	Roto Sil	788365
		12	Screw-on	Y	2 x Ø 8 mm	9	Roto Sil	788369
	20	12	Screw-on	N	–	9	Roto Sil	788366
		12	Screw-on	Y	2 x Ø 8 mm	9	Roto Sil	788370
	24	12	Screw-on	N	–	13	Roto Sil	788367
		12	Screw-on	Y	2 x Ø 8 mm	13	Roto Sil	788371
	30	12	Screw-on	N	–	13	Roto Sil	788368
		12	Screw-on	Y	2 x Ø 8 mm	13	Roto Sil	788372
Euronut 7/8	18	12	Screw-on	N	–	9	Roto Sil	788373
	20	12	Screw-on	N	–	9	Roto Sil	788374



5.6 Night vents

5.6.1 Frame components

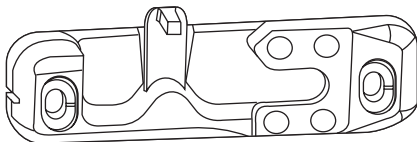


								Nº
Eurofalz	18	12	N	–	9	Roto Sil	–	256633
	20	12	N	–	9	Roto Sil	–	260527
	30	12	N	–	13	Roto Sil	–	595679
Euronut 7/8	18	12	N	–	9	Roto Sil	–	256584



INFO

The component can only be used in conjunction with a corner drive (P or V cam).



								Nº
Eurofalz	24	12	N	–	13	Roto Sil	Left	261945
		12	N	–	13	Roto Sil	Right	262932
		12	Y	2 x Ø 8 mm	13	Roto Sil	Left	261946
		12	Y	2 x Ø 8 mm	13	Roto Sil	Right	262933



INFO

The component can only be used in conjunction with a corner drive (P or V cam).

6 Installation

6.1 Processing instructions

Maximum sash sizes and weights

The specifications, application diagrams and component assignments which can be found in the hardware manufacturer's product-specific documents provide information on the maximum permitted sash sizes and weights. The component with the lowest permitted load bearing capacity determines the maximum permitted sash weight.

- Before using electronic data records and implementing them in window fabrication programs in particular, check that they match the specifications, application diagrams and component assignments.
- Never exceed the maximum permitted sash sizes and weights. If any points are unclear, contact the hardware manufacturer.

Specifications from profile manufacturers

The element manufacturer must comply with all specified system dimensions (e.g. gasket gap dimensions or locking distances).

They must continue to ensure and check this on a regular basis, especially when new hardware components are used for the first time, during production and on a continuous basis, up to and including element installation.



INFO

The hardware components are always designed in such a way that any system dimensions affected by the hardware can be adjusted. The hardware manufacturer shall not be liable for any additional expenses incurred if a deviation from these dimensions is not discovered until after the element has been installed.

Combining hardware

Burglar inhibiting elements need hardware which meets special requirements.

Elements for wet rooms and those for use in environments with aggressive, corrosive constituents in the air require hardware that meets special requirements.

The resistance of elements to wind loads when they are closed and locked depends on the individual design of the element. The hardware system is capable of handling wind loads specified by legislation and standards (for example in accordance with EN 12210 – especially test pressure P3).

Coordinate suitable hardware combinations and installation procedures in elements with the hardware manufacturer and profile manufacturer for the areas listed above, and conclude a separate agreement for them.



INFO

The hardware manufacturer's specifications on the combination of hardware (e.g. the use of additional scissor stays, the design of hardware for burglar-inhibiting elements, etc.) are binding.

In general, the hardware defined in this document is capable of meeting statutory and normative requirements for accessible dwellings.

Installation surfaces

The frame and sash grooves must be free from construction materials (such as plaster, gypsum). The sash groove must be free from welding residue to ensure an optimum supporting surface for the hardware components.

6.2 Screw fixing

Electrogalvanised and passivated steel fenestration screws (Ø 3.9 – 4.2 x ...) are to be used to fasten the hardware components; in more challenging climatic conditions, use fenestration screws with additional sealing.

The spacer block guidelines for glazing methods must be complied with.



6.3 Screw connections



DANGER

Incorrectly installed or screwed-in hardware components present a risk of death.

Incorrectly installed and screwed-in hardware components may lead to hazardous situations and cause serious or fatal accidents.

- ▶ During installation and screwdriving work, observe the specifications provided by the profile manufacturer; contact the profile manufacturer if necessary.
- ▶ Use the recommended screws.
- ▶ Select the length of the screws according to the profiles used.
- ▶ Ensure that the hardware components are adequately secured; contact the screw manufacturer if necessary.



ATTENTION

Using incorrect screw material may cause property damage.

Using the wrong screws may damage the components.

- ▶ Only use galvanised zinc-plated and passivated steel screws.
- ▶ Use screws with additional sealing in more challenging climatic conditions.
- ▶ Use stainless-steel screws on stainless-steel components only.
- ▶ For aluminium components, use screws made of steel (coated with zinc-nickel or zinc flakes) or stainless steel.



ATTENTION

Improper screw fixings may cause property damage.

Improper screw fixings may damage the components and the element as a whole, and stop them from working properly.

- ▶ Unless stated otherwise, turn screws in straight.
- ▶ Tighten screw heads until they are flush with the surface.
- ▶ Do not over-tighten screws. Note the torque. Choose a torque that will not deform the hardware and profile. Define profile-specific torques on the basis of the demo assembly.
- ▶ Use the recommended screws.
- ▶ Select the length of the screws according to the profiles used.

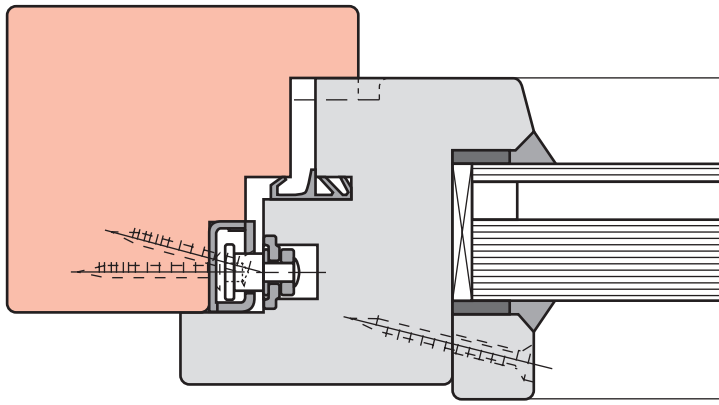
6.4 Fastening suggestion for security windows

Fastening SEC strikers

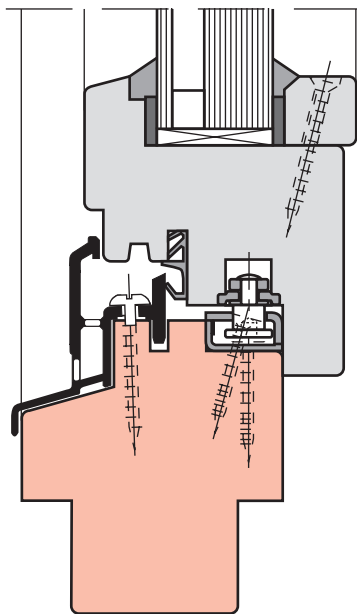
3 pcs. screws 4x ...

Glazing bead attachment

With screws if required.



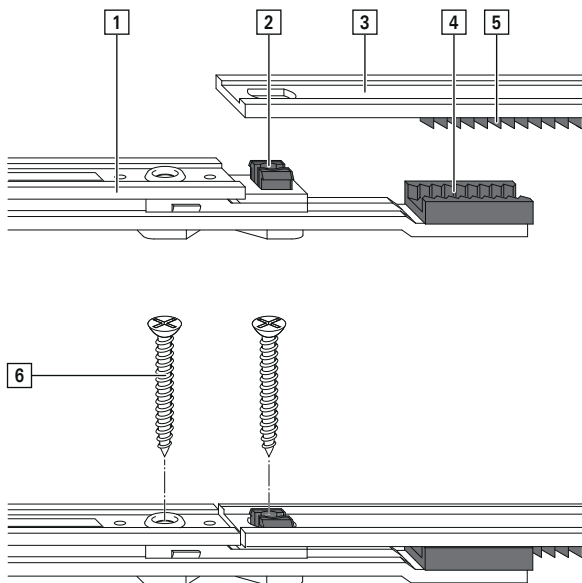
Horizontal cross section M 1:2



Vertical cross section M 1:2

6.5 Force-fit connection

Coupleable hardware components always require a force-fit connection.



Assignment	Description
[1]	Component A
[2]	Screw guide with clamp
[3]	Component B
[4]	Component A toothed segment
[5]	Component B toothed segment
[6]	Screw

Force-fit connections are formed by screwing down components A and B so that forces and movements are transferred without loss.



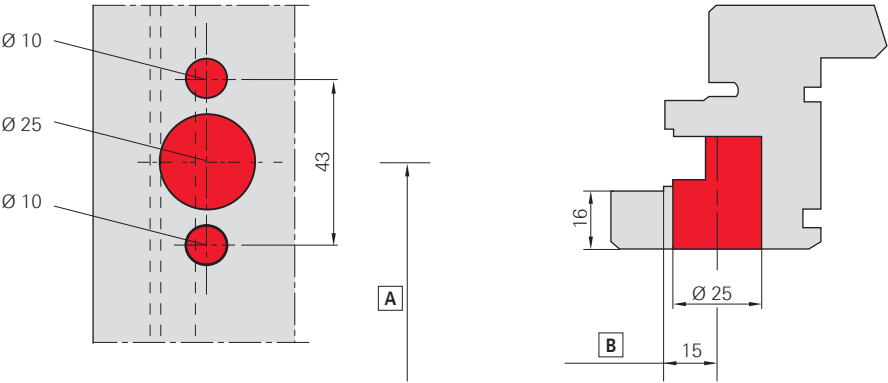
INFO

All coupleable components are delivered attached in the centre.

6.6 Drilling and routing dimensions

6.6.1 T&T espagnolette

6.6.1.1 Drilling and routing pattern



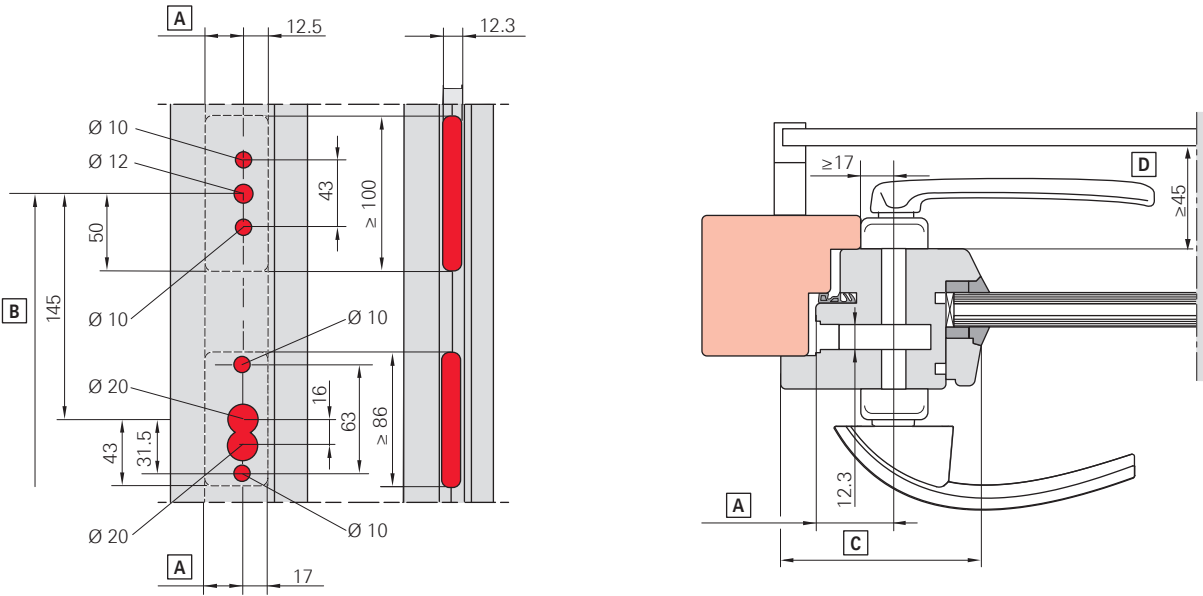
Assignment	Meaning
[A]	Handle height
[B]	Backset



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M5 x ... DIN EN ISO 7046.

6.6.2 High backset espagnolette



Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-

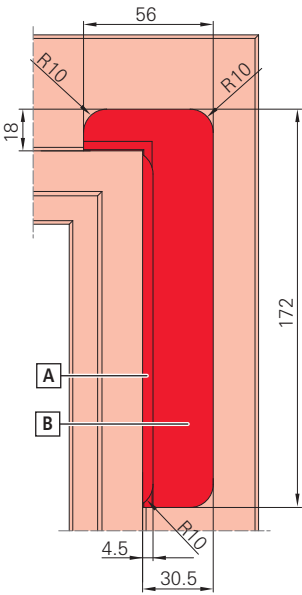
Assignment	Meaning	Backset
[C]	82 mm	25 mm
	87 mm	30 mm
	92 mm	35 mm
	97 mm	40 mm
	102 mm	45 mm
	107 mm	50 mm
[D]	On roller shutters	-



INFO

Cross section: doors (inward opening).

6.6.3 Stay bearing



Assignment	Meaning
[A]	29 mm deep
[B]	8 mm deep

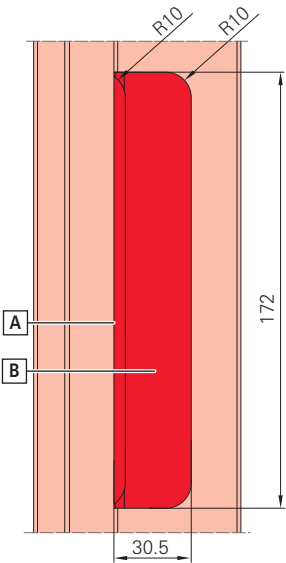


INFO

Rebate depth 20 without routing [A].



6.6.4 Central bearing

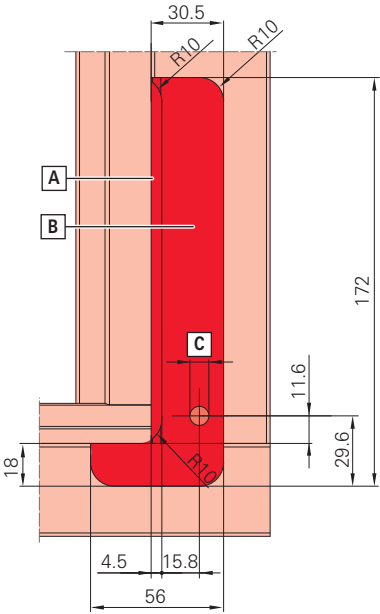


Assignment	Meaning
[A]	29 mm deep
[B]	8 mm deep



INFO
Rebate depth 20 without routing [A].

6.6.5 Pivot rest



Assignment	Meaning
[A]	29 mm deep
[B]	8 mm deep

Assignment	Meaning
[C]	Drill hole Ø 8 mm, 29 mm deep

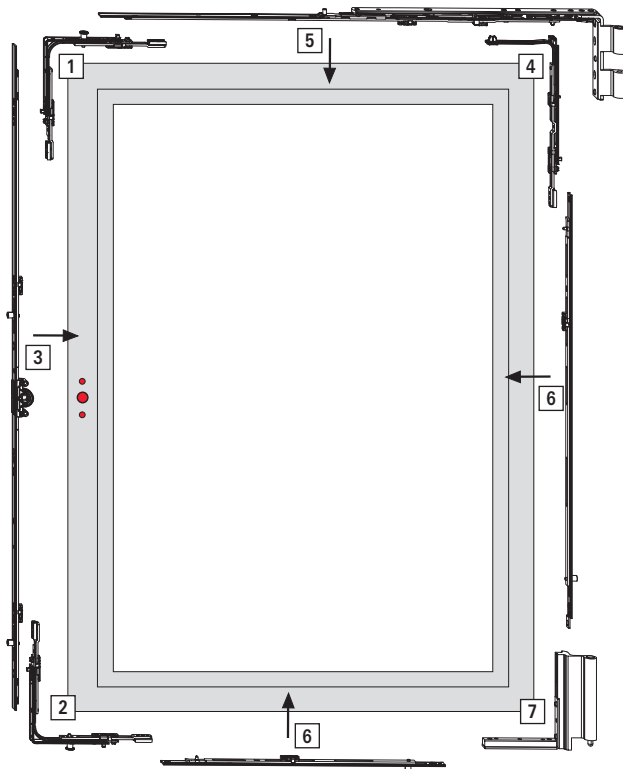


INFO

Rebate depth 20 without routing [A].

6.7 Sash

6.7.1 Rectangular window



Installation sequence (suggestion)

- [1] Corner drive
- [2] Corner drive
- [3] T&T espagnolette
- [4] Sash stay corner drive (without cam)
- [5] T&T sash stay set
- [6] Centre lock, vertical and horizontal
- [7] Rebate corner hinge

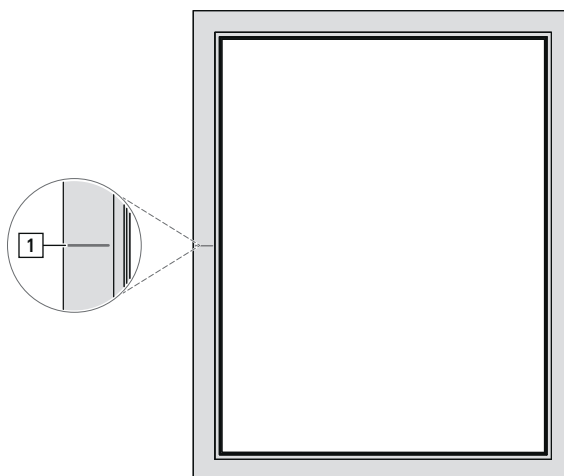


6.7.2 Preparing the sash for the T&T espagnolette

6.7.2.1 Handle drill holes

Drilling the holes for the handle

1. Mark the handle height on the inside of the sash [1].



2. Drill holes.
Note any different drilling dimensions. → 6.6
"Drilling and routing dimensions" from page 151
3. Deburr the drill holes.

6.7.2.2 Gearbox cutout

Routing the gearbox cutout

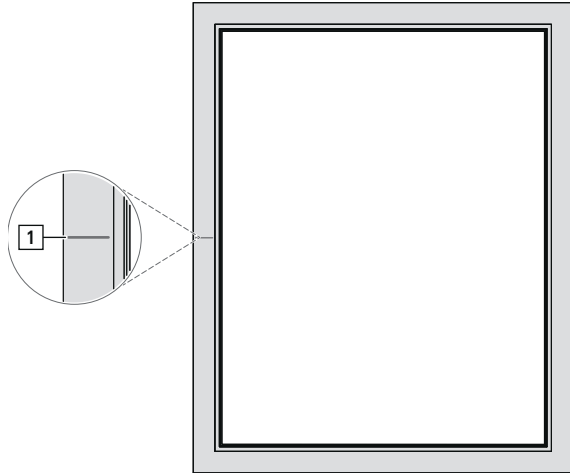
1. Route the espagnolette cutout.
Observe the routing dimensions. → 6.6 *"Drilling and routing dimensions" from page 151*
2. Deburr the espagnolette cutout.

6.7.3 Preparing the sash for a lockable T&T espagnolette

6.7.3.1 Handle drill holes

Drilling the holes for the handle

1. Mark the handle height on the inside of the sash [1].



2. Drill holes.
Note any different drilling dimensions. → 6.6
"Drilling and routing dimensions" from page 151
3. Deburr the drill holes.

6.7.3.2 Gearbox cutout with lock casing

Routing the gearbox cutout with lock casing

1. Route the espagnolette cutout.
Observe the routing dimensions. → 6.6 *"Drilling and routing dimensions" from page 151*
2. Deburr the espagnolette cutout.



6.7.4 Cropping the hardware components



ATTENTION

Incorrect cropping methods may result in property damage.

Do not insert the hardware components into the sash before they have been cropped. The screw guide engages and can be destroyed when it is removed.

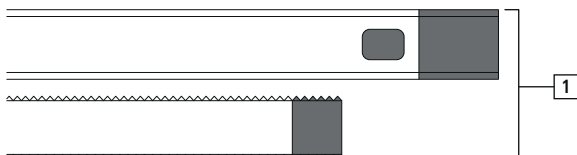
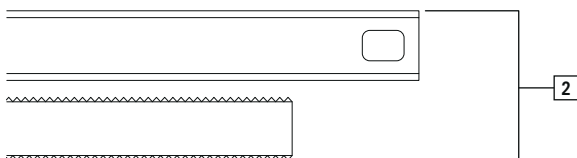
- Only lay out the hardware components and do not insert them into the sash before they have been cropped.

The following hardware components are cropped:

- Espagnolette
- Centre locks

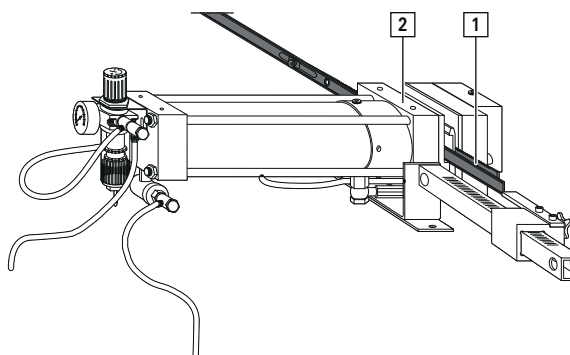
Cropping with a pneumatic punch (hole punching)

Hardware components are delivered 10 mm longer than the nominal dimension.



Assignment	Description
[1]	Hardware delivery state
[2]	Hardware, cropped

1. Place the hardware component in the required position.
2. Mark the length on the hardware component.
3. Insert the hardware component [1] into the pneumatic punch [2].



4. Align the hardware component.
5. Crop the hardware component.

6.7.5 Cropping the lever-operated espagnolette, standard

**INFO**

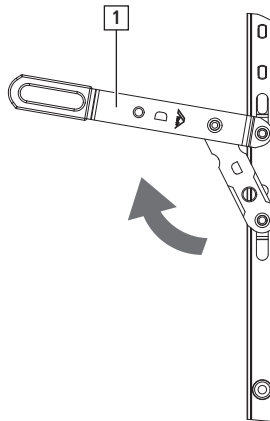
Applicable to lever-operated espagnolette, standard RC 2 / RC 2 N in conjunction with a T&T sash stay set.

**INFO**

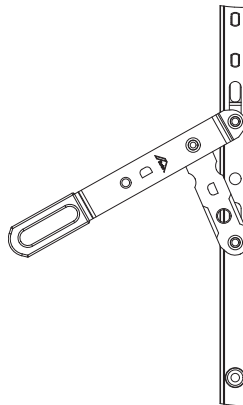
The figure shows the lever-operated espagnolette, standard VT – fixed handle height.

Crop the lever-operated espagnolette, standard – centred / variable handle height in the same way.

1. Open the lever-operated espagnolette, standard.
To do so, move the red toggle lever [1] upwards.



2. Crop the lever-operated espagnolette, standard.
3. With the red toggle lever closed at the bottom and open at the top, connect it to the corner drives → *6.5 "Force-fit connection" from page 150.*



4. Close the lever-operated espagnolette, standard.



6.7.6 Corner drives



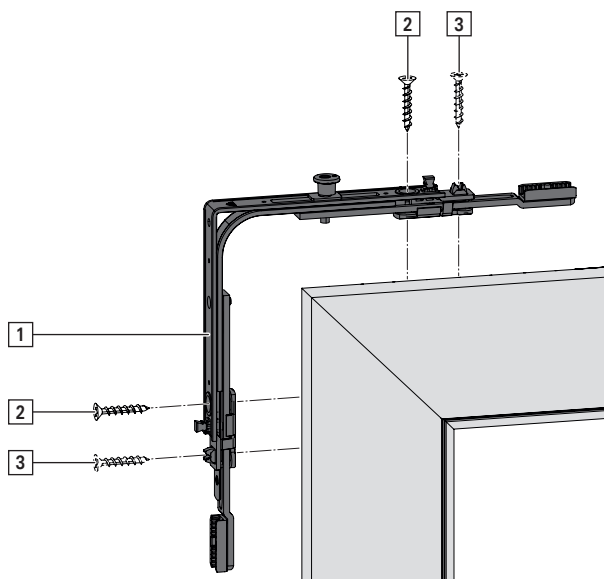
INFO

All components are manufactured with centre fixing.

6.7.6.1 Corner drive

Installing the corner drive

1. Insert the corner drives [1] and screw them down with two screws [2].



2. After all of the connector components have been installed, screw down the corner drives with a further two screws [3]. → 6.5 "Force-fit connection" from page 150

6.7.7 T&T espagnolettes

6.7.7.1 Fixed handle height

Installing the T&T espagnolette

1. Place the espagnolette in the required position, mark the length on one side and crop it → 6.7.4 "Cropping the hardware components" from page 157.
2. Insert the espagnolette with the cropped side facing upwards and create a force-fit connection. → 6.5 "Force-fit connection" from page 150



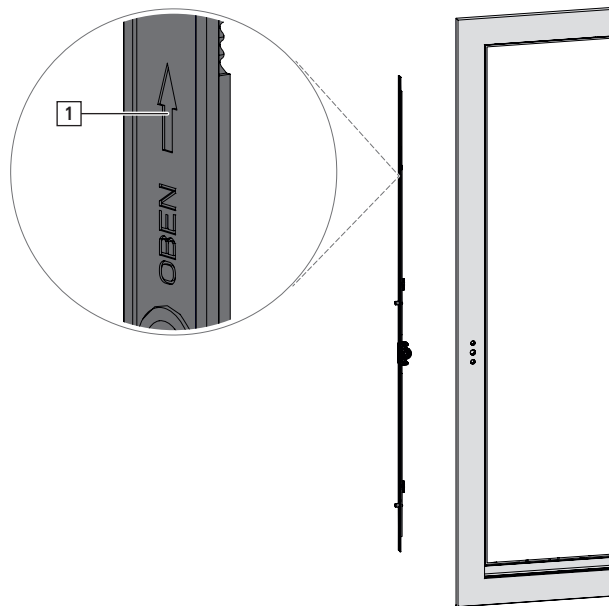
PRECONDITION

At an SRH of > 2400 mm, insert the multipart centre lock at the top on the locking side and create a force-fit connection.

6.7.7.2 Centred / variable handle height

Installing the T&T espagnolette

1. Place the espagnolette in the required position, mark the length on both sides, remove it and crop it → 6.7.4 *"Cropping the hardware components"* from page 157.
2. Insert the espagnolette. Ensure it is installed in the correct direction, with the arrow [1] pointing upwards.
Create a force-fit connection. → 6.5 *"Force-fit connection"* from page 150



PRECONDITION

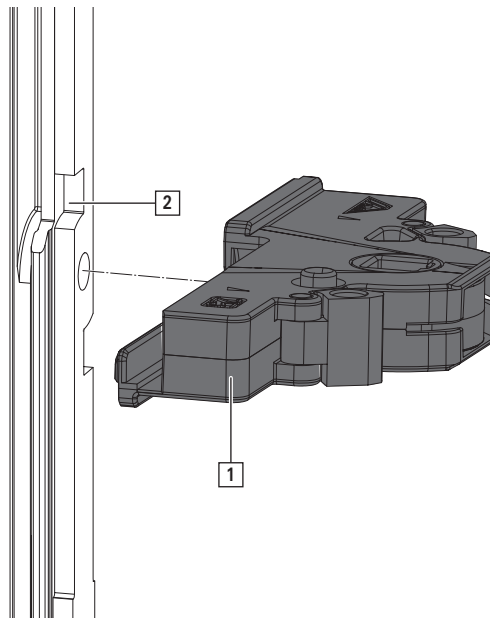
With SRH > 2400 mm, insert the centre lock, multipart, at the top on the locking side and create a force-fit connection.



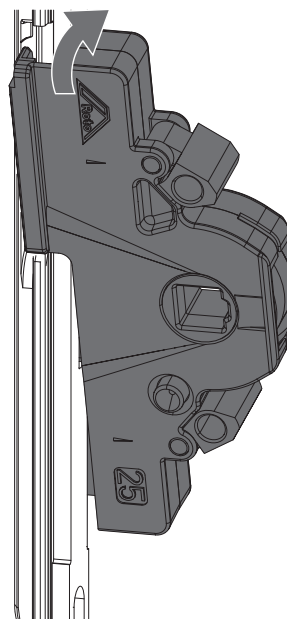
6.7.8 High backset espagnolette

Gearbox

1. Insert the gearbox [1] into the espagnolette faceplate [2] rotated by 90°. While doing so, insert the cam into the hole provided.



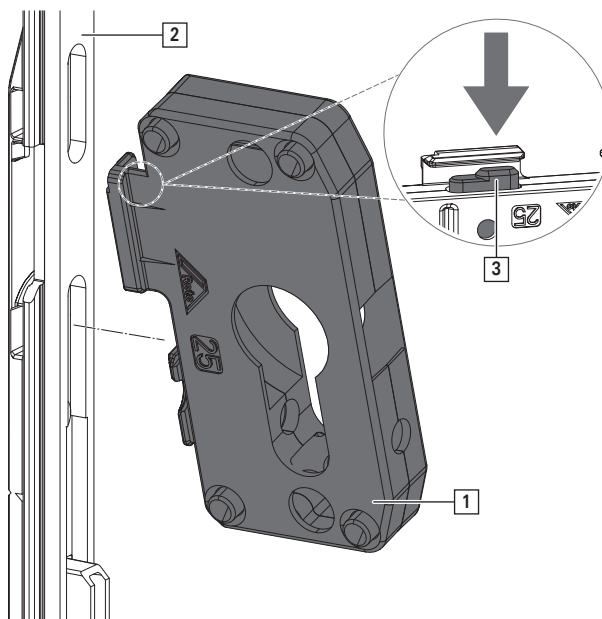
2. Turn the gearbox clockwise until the gearbox clicks into place.
The gearbox is positioned flush with the espagnolette faceplate.



3. For dismantling, turn the gearbox anticlockwise until the gearbox comes out of the groove.
Remove from the espagnolette faceplate.

Lock casing

1. If the locking lug [3] is protruding, push it back into the lock casing [1].
Turn the lock casing slightly before inserting it into the espagnolette faceplate [2].



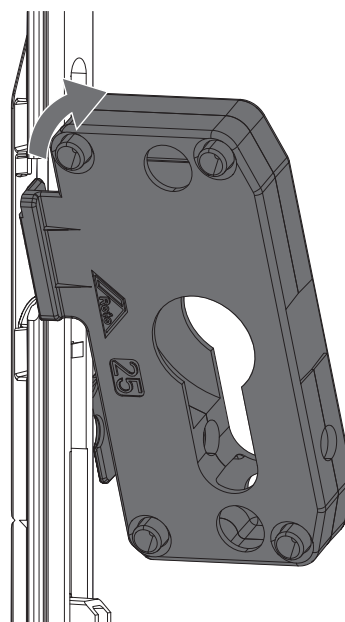
2. Insert the lock casing into the groove and turn clockwise until the lock casing clicks into place.
The lock casing is positioned flush with the espagnolette faceplate.



ATTENTION
Improper installation may cause property damage.

Turning the lock casing in incorrectly can damage the links.

- ▶ Ensure ease of movement.
- ▶ Reposition the lock casing if excessive force is required.

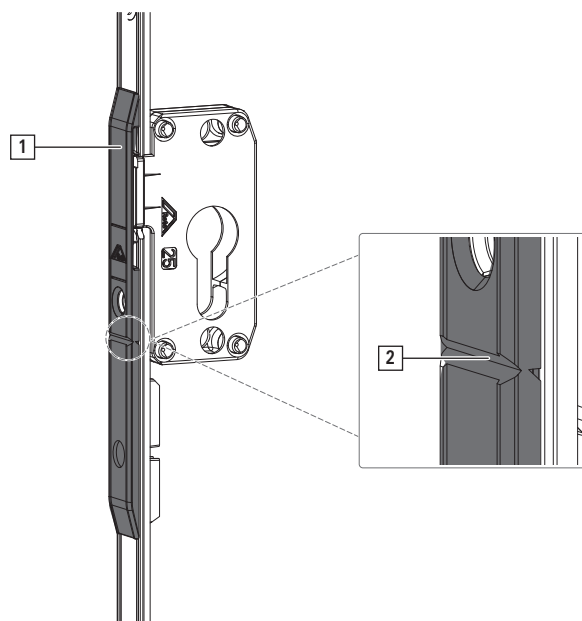


3. For dismantling, turn the lock casing anticlockwise until the lock casing comes out of the groove.
Remove from the espagnolette faceplate.

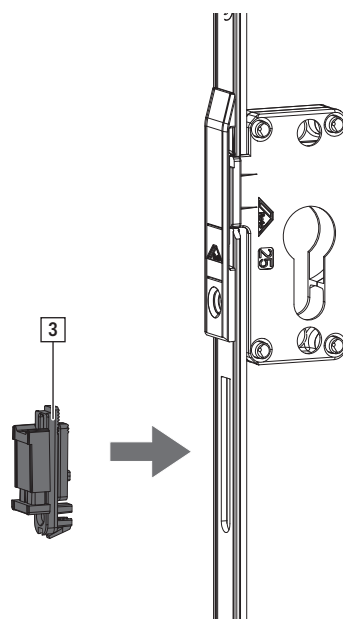


Bullet catch

1. Snap the cover [1] apart at the notch [2].
Remove the lower part of the cover.



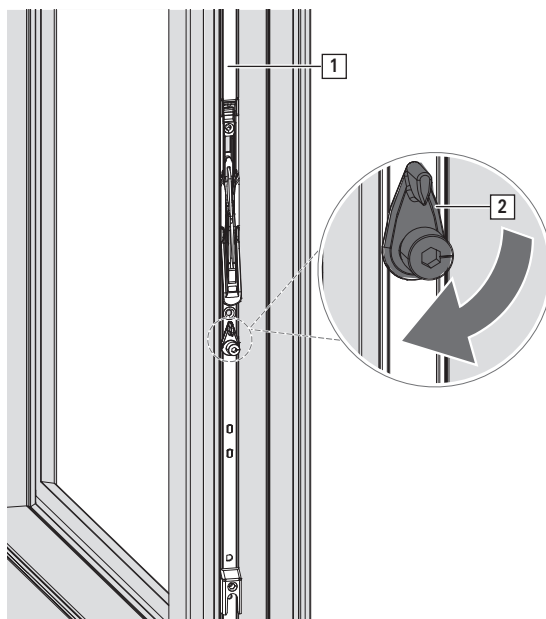
2. Insert the bullet catch [3].



6.7.9 Lever-operated espagnolette Plus

1. Insert the lever-operated espagnolette [1] into the sash groove.

For installation in the right-hand sash, turn the eccentric bolt [2] 180°.

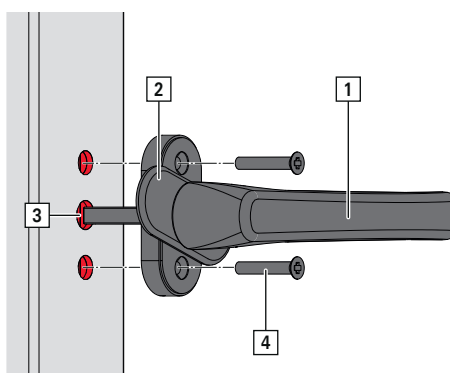


2. Mount the second opening sash with the lever-operated espagnolette open (as delivered).

6.7.10 Handle

6.7.10.1 Handle – T&T espagnolette

1. Move the handle [1] to the turn position (horizontally aligned with the escutcheon).
2. Rotate the cover [2] on the handle 90°.



3. Insert the handle into the sash [3].
4. Screw down the handle using screws [4].
5. Rotate the cover on the handle back 90°.



6.7.10.2 Centre fixing



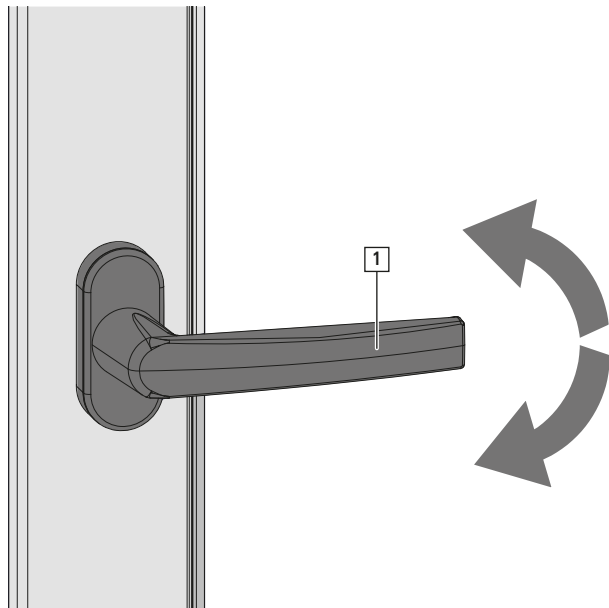
INFO

All coupleable components are delivered attached in the centre.

Undoing the centre fixing

Turning the handle undoes the centre fixing of the hardware components. Undo the centre fixing with the sash open.

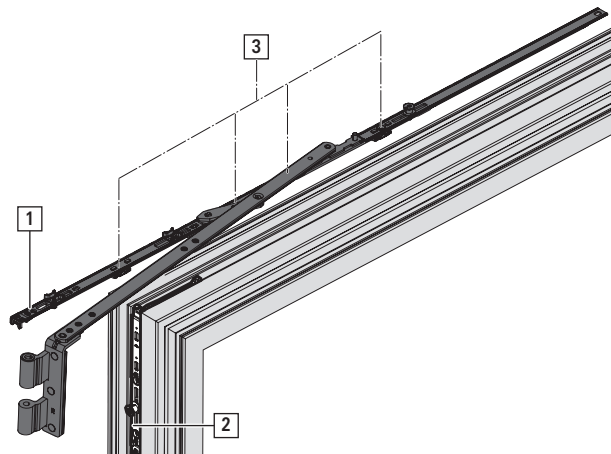
1. Turn the handle [1] in one direction as far as it will go.
Audible cracking noise.



2. Turn the handle in the opposite direction as far as it will go.
Audible cracking noise.
3. Turn the handle in both directions again and check for ease of movement.

6.7.11 T&T sash stay set

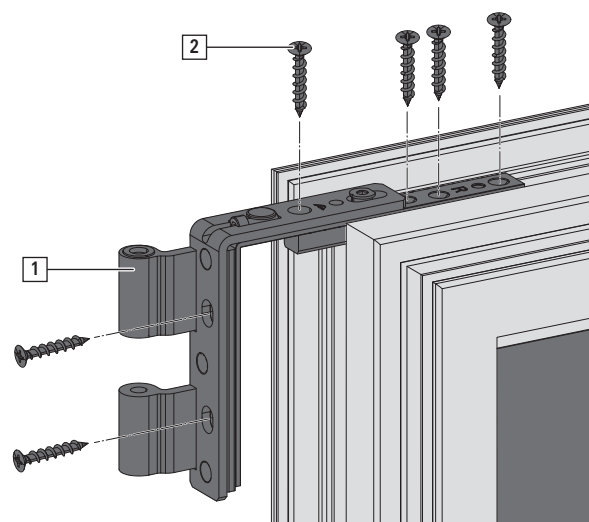
1. Open up the T&T sash stay set [1] and insert it into the sash groove.



2. Clip the T&T sash stay set into the sash stay corner drive [2].
3. Connect the T&T sash stay set to the corner drive, standard, or to the centre lock.
Create a force-fit connection → *from page 151*.
4. Fasten with screws [3]. Fill every screw hole.

6.7.12 Rebate stay hinge

1. Insert the rebate stay hinge [1] into the sash groove.
Check that it is seated flush.



2. Fasten with six screws [2].



6.7.13 Central hinge

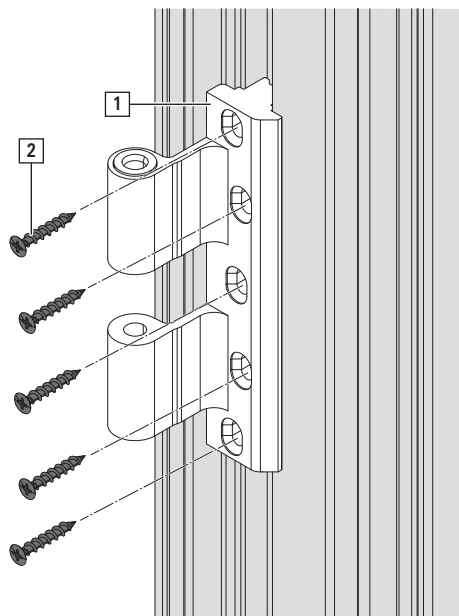


INFO

With SRH 1200 – 2000 mm, position one central hinge in the middle.

With SRH > 2001 mm, fit two central hinges.

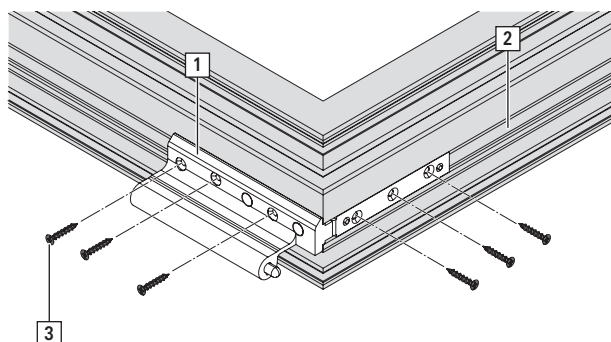
1. Position the central hinge [1] in the sash.



2. Fasten with five screws [2].

6.7.14 Rebate corner hinge

1. Slide the rebate corner hinge [1] into the sash groove [2].



2. Fasten with six screws [3].

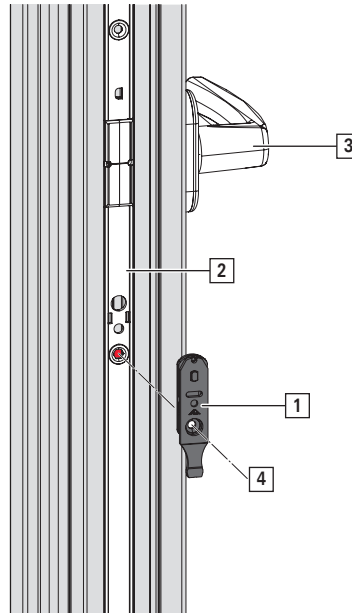
6.7.15 Lifting mishandling device / sash lifter



INFO

The sash lifter is installed in the same way as the lifting mishandling device. The installation of the lifting mishandling device is shown here.

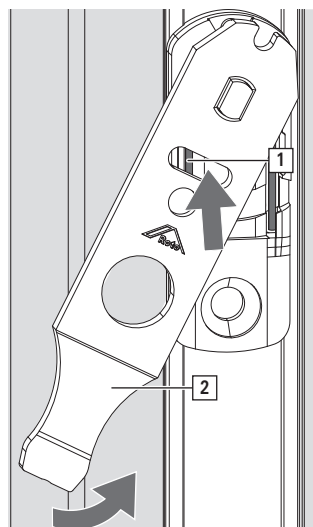
1. Clip the lifting mishandling device [1] into the hole pattern provided in the espagnolette [2].
Position near the handle [3].



2. Fasten with a screw [4].
3. Activate the lifting mishandling device by pushing the arm in the required direction until the arm cam snaps past the spring. Do not push the arm cam beyond the housing. The lifting mishandling device's centre fixing is undone.

Restoring the neutral position

1. Use a suitable tool, for example a screwdriver, to push down on the spring [1] beneath the slot.



2. Keep the spring held down and turn the arm [2] back to 0°.

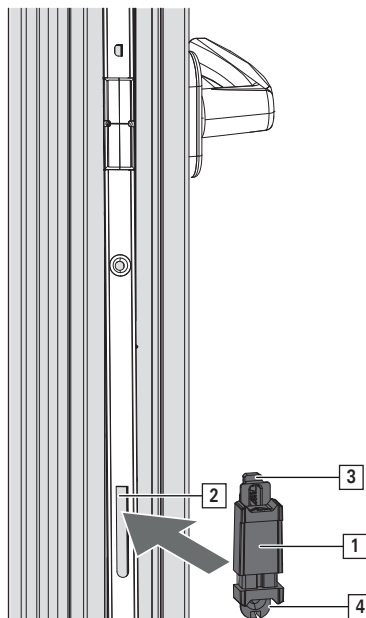


The lifting mishandling device returns to the neutral position and can be reactivated.

6.7.16 Bullet catch

1. Insert the bullet-catch sash component [1] into the espagnolette recess [2].

To do so, insert the nose of the bullet catch [3] into the flat side of the espagnolette recess and clip the bullet catch into place.



2. Secure with screw [4].

6.8 Frame



INFO

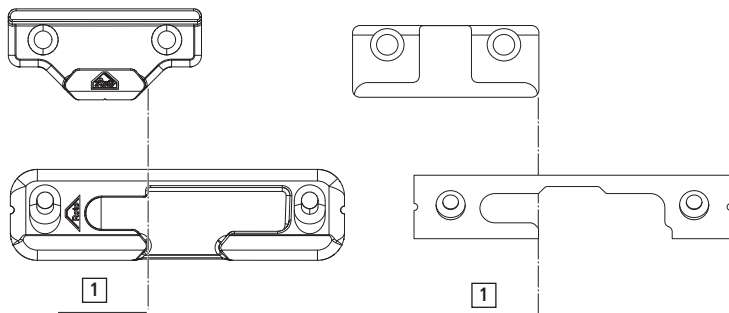
Install the frame components when the frame is horizontal (workshop).

Once the frame is fitted, the reveal may prevent frame components from being installed correctly.

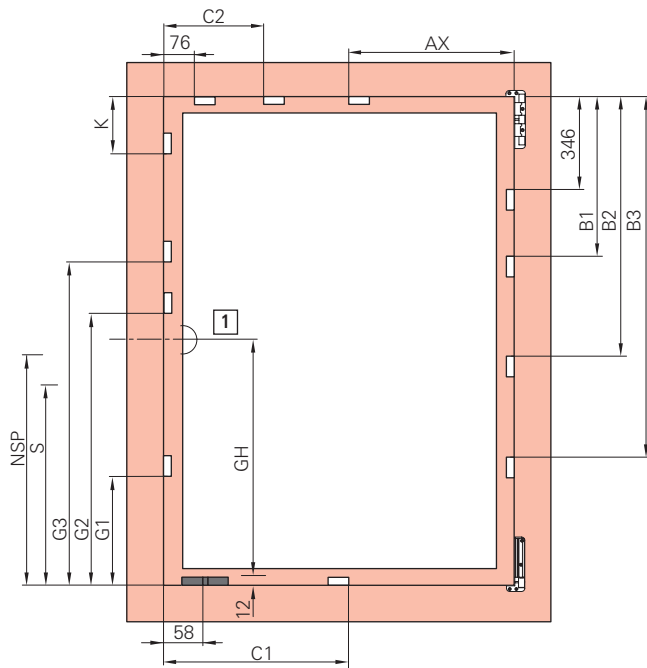
6.8.1 Position of strikers and tilt strikers

6.8.1.1 Striker positions and tilt strikers

Positioning of the strikers and tilt strikers on the basis of the point of entry [1] of the cams:



6.8.1.2 Tilt&Turn hardware / TiltFirst hardware – basic security



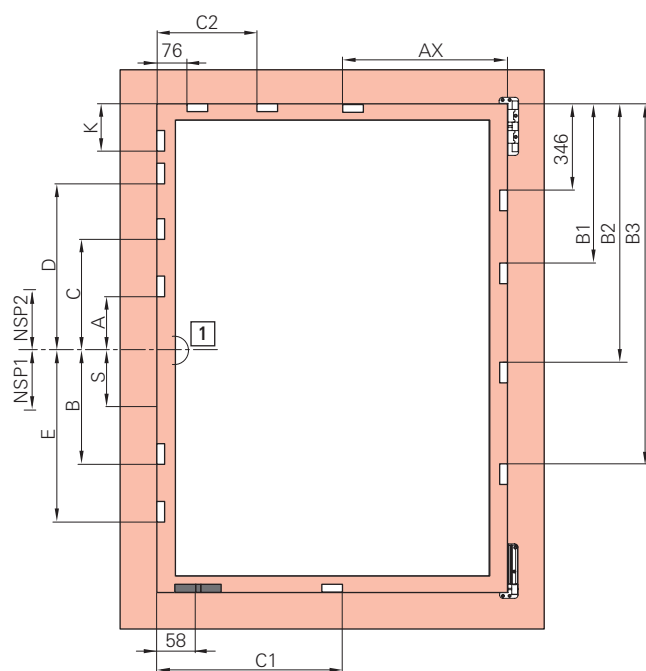
[1] Handle centre

□ Striker e.g. 

■ Tilt striker e.g. 

T&T espagnolette, VT – fixed handle height

SRH [mm]	GH	G1	G2	G3	K	NSP	S
1200 – 1400	563	700	–	–	–	388	–
1401 – 1600	563	700	1170	–	–	388	–
1601 – 1800	563	700	1370	–	–	388	–
1601 – 2400	1000	700	1370	–	–	1121	807
2401 – 2600	1000	700	1370	1770	–	1121	807
2601 – 2800	1000	700	1370	1770	458	1121	807
2801 – 3000	1000	700	1370	1770	658	1121	807



[1] Handle centre

□ Striker e.g.

■ Tilt striker e.g.

T&T espagnolette – centred / variable handle height

SRH [mm]	A	B	C	D	E	K	NSP 1	NSP 2	S
1200 – 1600	125	340	–	–	–	–	137	–	–
1601 – 2000	–	312	358	–	–	–	–	109	395
2001 – 2400	–	312	358	758	740	–	–	109	395
2401 – 2600	–	312	358	758	740	–	–	109	395
2601 – 2800	–	312	358	758	740	458	–	109	395
2801 – 3000	–	312	358	758	740	658	–	109	395

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical

SRH [mm]	B1	B2	B3	Centre lock
1200 – 1800	946	–	–	CL 200 P KU + CL 600 E
1801 – 2600	946	1546	–	CL 200 P KU + CL 600 E KU + CL 600 E
2601 – 3000	946	1546	2146	CL 200 P KU + 2x CL 600 E KU + CL 600 E

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	Centre lock
1101 – 1600	658	CL 600 E

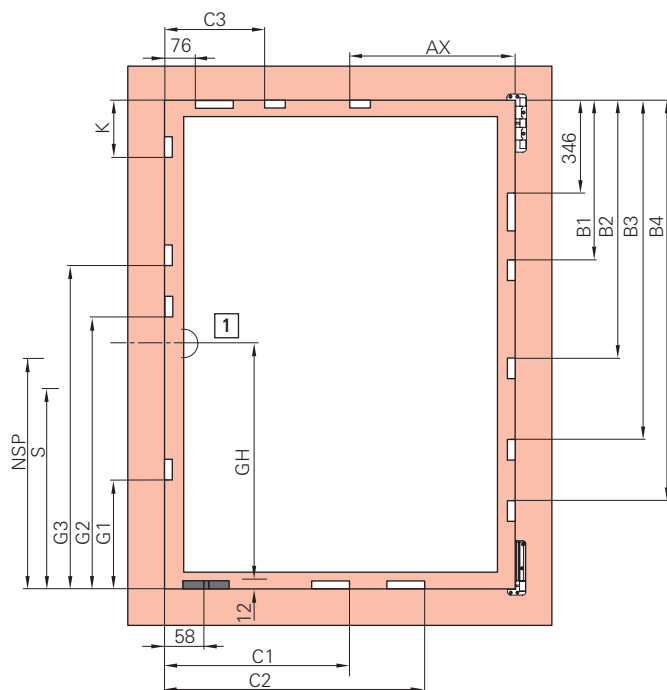
Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	Centre lock
1001 – 1200	462	CL 400 E
1201 – 1600	658	CL 600 E

Centre lock, top horizontal

SRW [mm]	C2	Centre lock
1201 – 1400	476	CL 400 E KU
1401 – 1600	676	CL 600 E KU

6.8.1.3 Tilt&Turn hardware – RC 1 N



[1] Handle centre

□ Striker e.g. 

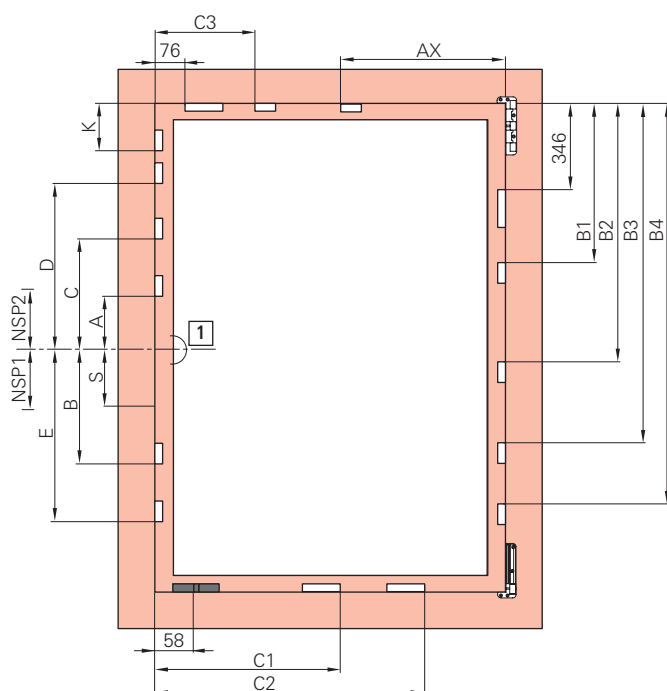
■ Tilt striker e.g. 

T&T espagnolette, VT – fixed handle height

SRH [mm]	GH	G1	G2	G3	K	NSP	S
1200 – 1400	563	700	–	–	–	388	–
1401 – 1600	563	700	1170	–	–	388	–
1601 – 1800	563	700	1370	–	–	388	–
1601 – 2400	1000	700	1370	–	–	1121	807
2401 – 2600	1000	700	1370	1770	–	1121	807
2601 – 2800	1000	700	1370	1770	458	1121	807



SRH [mm]	GH	G1	G2	G3	K	NSP	S
2801 – 3000	1000	700	1370	1770	658	1121	807



[1] Handle centre

□ Striker e.g. 

■ Tilt striker e.g. 

T&T espagnolette – centred / variable handle height

SRH [mm]	A	B	C	D	E	K	NSP 1	NSP 2	S
1200 – 1600	125	340	–	–	–	–	137	–	–
1601 – 2000	–	312	358	–	–	–	–	109	395
2001 – 2400	–	312	358	758	740	–	–	109	395
2401 – 2600	–	312	358	758	740	–	–	109	395
2601 – 2800	–	312	358	758	740	458	–	109	395
2801 – 3000	–	312	358	758	740	658	–	109	395

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical, without anti-slam device

SRH [mm]	B1	B2	B3	Centre lock
1200 – 1800	946	–	–	CL 200 P KU + CL 600 E
1801 – 2600	946	1546	–	CL 200 P KU + CL 600 E KU + CL 600 E
2601 – 3000	946	1546	2146	CL 200 P KU + 2x CL 600 E KU + CL 600 E

Centre lock, vertical, with anti-slam device

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1800	546	950	–	–	2x CL 200 P KU + CL 400 E
1801 – 2600	546	1146	1550	–	2x CL 200 P KU + CL 600 E KU + CL 400 E
2601 – 3000	546	1146	1746	2150	2x CL 200 P KU + 2x CL 600 E KU + CL 400 E

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 800	258	–	CL 200 P
801 – 1000	462	–	CL 400 P
1001 – 1200	658	–	CL 600 P
1201 – 1400	658	858	CL 600 E KU + CL 200 P
1401 – 1600	658	1062	CL 600 E KU + CL 400 P

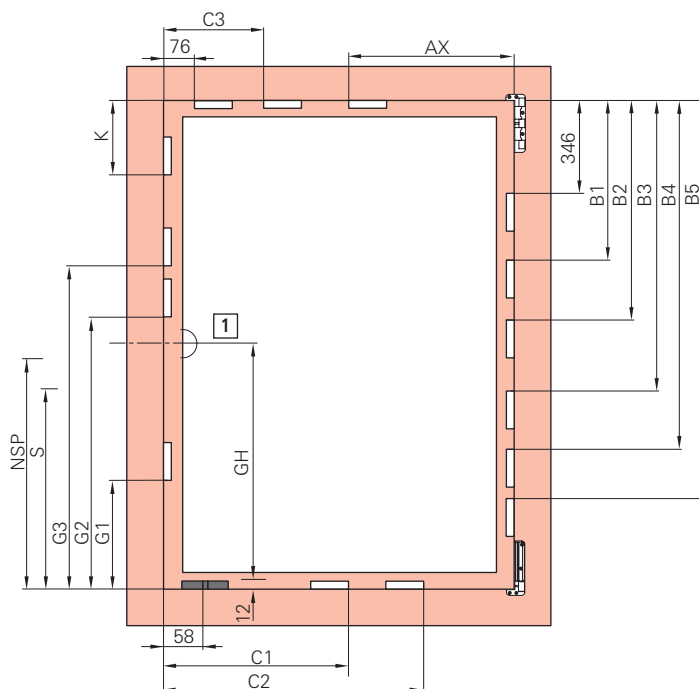
Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 1000	258	–	CL 200 P
1001 – 1200	462	–	CL 400 P
1201 – 1400	658	–	CL 600 P
1401 – 1600	658	858	CL 600 E KU + CL 200 P

Centre lock, top horizontal

SRW [mm]	C3	Centre lock
1201 – 1400	476	CL 400 E KU
1401 – 1600	676	CL 600 E KU

6.8.1.4 Tilt&Turn hardware – RC 2 / RC 2 N



[1] Handle centre

□ Striker e.g. 

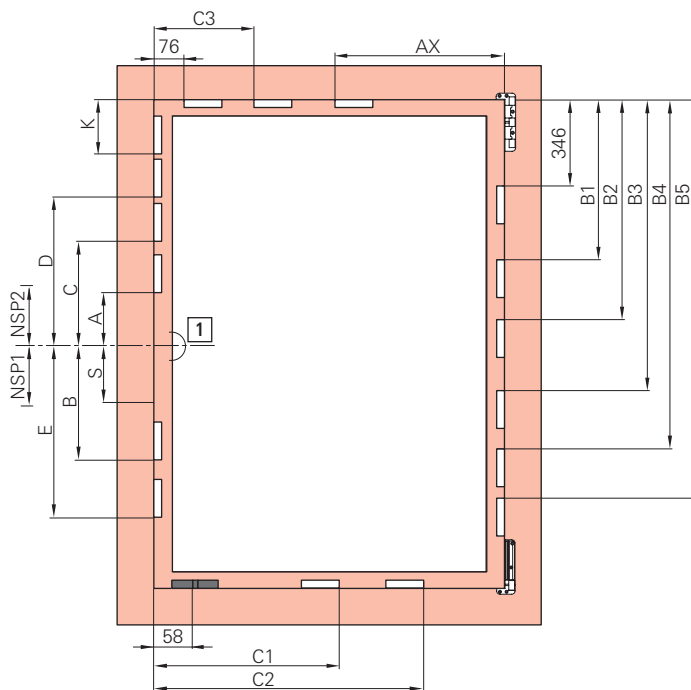
■ Tilt striker e.g. 

T&T espagnolette, VT – fixed handle height

SRH [mm]	GH	G1	G2	G3	K	NSP	S
1200 – 1400	563	700	–	–	–	388	–
1401 – 1600	563	700	1170	–	–	388	–
1601 – 1800	563	700	1370	–	–	388	–
1601 – 1800	1000	700	1370	–	–	1121	807
1801 – 2000	1000	700	1370	–	–	1121	807
2001 – 2200	1000	700	1370	1770	–	1121	807



SRH [mm]	GH	G1	G2	G3	K	NSP	S
2201 – 2400	1000	700	1370	1770	–	1121	807
2401 – 2600	1000	700	1370	1770	258	1121	807
2601 – 2800	1000	700	1370	1770	458	1121	807
2801 – 3000	1000	700	1370	1770	658	1121	807



[1] Handle centre

□ Striker e.g.

■ Tilt striker e.g.

T&T espagnolette – centred / variable handle height

SRH [mm]	A	B	C	D	E	K	NSP 1	NSP 2	S
1200 – 1600	125	340	–	–	–	–	137	–	–
1601 – 2000	–	312	358	–	–	–	–	109	395
2001 – 2200	–	312	358	758	740	–	–	109	395
2201 – 2600	–	312	358	758	740	258	–	109	395
2601 – 2800	–	312	358	758	740	458	–	109	395
2801 – 3000	–	312	358	758	740	658	–	109	395

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical, without anti-slam device

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1400	946	–	–	–	CL 200 V KU + CL 600 V
1401 – 1600	946	1146	–	–	CL 200 V KU + CL 600 V KU+ CL 200 V
1601 – 1800	946	1350	–	–	CL 200 V KU + CL 600 V KU+ CL 400 V
1801 – 2000	946	1546	–	–	CL 200 V KU + CL 600 V KU+ CL 600 V
2001 – 2200	946	1546	1746	–	CL 200 V KU + 2x CL 600 V KU+ CL 200 V
2201 – 2400	946	1546	1950	–	CL 200 V KU + 2x CL 600 V KU+ CL 400 V
2401 – 2600	946	1546	2146	–	CL 200 V KU + 2x CL 600 V KU+ CL 600 V
2601 – 2800	946	1546	2146	2346	CL 200 V KU + 3x CL 600 V KU + CL 200 V
2801 – 3000	946	1546	2146	2550	CL 200 V KU + 3x CL 600 V KU + CL 400 V

Centre lock, vertical, with anti-slam device

SRH [mm]	B1	B2	B3	B4	B5	Centre lock
1200 – 1400	546	950	–	–	–	2x CL 200 V KU + CL 400 V
1401 – 1600	546	1146	–	–	–	2x CL 200 V KU + CL 600 V
1601 – 1800	546	1146	1346	–	–	2x CL 200 V KU + CL 600 V KU + CL 200 V
1801 – 2000	546	1146	1550	–	–	2x CL 200 V KU + CL 600 V KU + CL 400 V
2001 – 2200	546	1146	1746	–	–	2x CL 200 V KU + CL 600 V KU + CL 600 V
2201 – 2400	546	1146	1746	1946	–	2x CL 200 V KU + 2x CL 600 V KU + CL 200 V
2401 – 2600	546	1146	1746	2150	–	2x CL 200 V KU + 2x CL 600 V KU + CL 400 V
2601 – 2800	546	1146	1746	2346	–	2x CL 200 V KU + 2x CL 600 V KU + CL 600 V
2801 – 3000	546	1146	1746	2346	2546	2x CL 200 V KU + 3x CL 600 V KU + CL 200 V

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 690	258	–	CL 200 V
691 – 890	462	–	CL 400 V
891 – 1090	658	–	CL 600 V
1091 – 1290	658	858	CL 600 V KU + CL 200 V
1291 – 1490	658	1062	CL 600 V KU + CL 400 V
1491 – 1600	658	1258	CL 600 V KU + CL 600 V

Centre lock, bottom horizontal, with turn restrictor

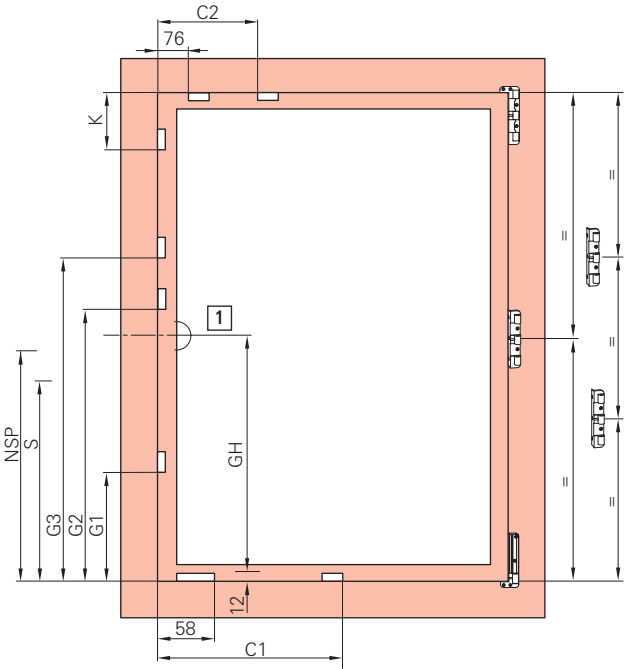
SRW [mm]	C1	C2	Centre lock
800 – 1000	258	–	CL 200 V
1001 – 1200	462	–	CL 400 V
1201 – 1400	658	–	CL 600 V
1401 – 1600	658	858	CL 600 V KU + CL 200 V

Centre lock, top horizontal

SRW [mm]	C3	Centre lock
1001 – 1200	276	CL 200 KU
1201 – 1400	476	CL 400 V KU
1401 – 1600	676	CL 600 V KU



6.8.1.5 Turn-Only hardware – basic security

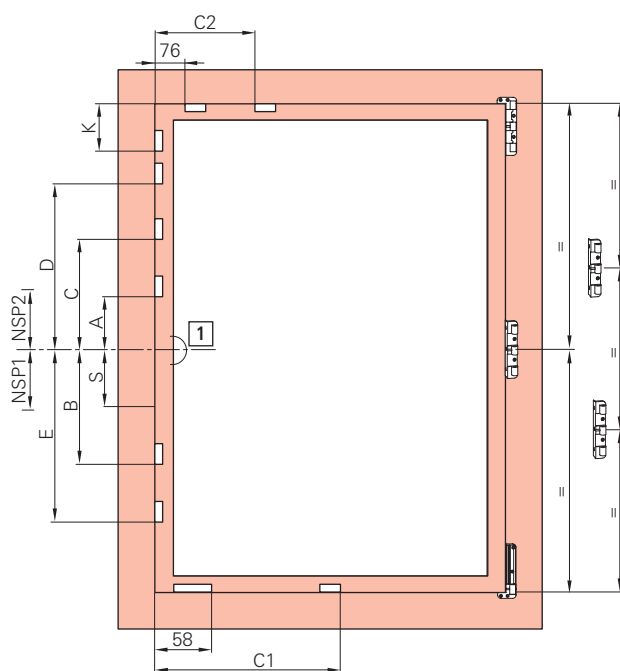


[1] Handle centre

□ Striker e.g. 

T&T espagnolette, VT – fixed handle height

SRH [mm]	GH	G1	G2	G3	K	NSP	S
1200 – 1400	563	700	–	–	–	388	–
1401 – 1600	563	700	1170	–	–	388	–
1601 – 1800	563	700	1370	–	–	388	–
1601 – 2400	1000	700	1370	–	–	1121	807
2401 – 2600	1000	700	1370	1770	–	1121	807
2601 – 2800	1000	700	1370	1770	458	1121	807
2801 – 3000	1000	700	1370	1770	658	1121	807



[1] Handle centre

□ Striker e.g. 

T&T espagnolette – centred / variable handle height

SRH [mm]	A	B	C	D	E	K	NSP 1	NSP 2	S
1200 – 1600	125	340	–	–	–	–	137	–	–
1601 – 2000	–	312	358	–	–	–	–	109	395
2001 – 2400	–	312	358	758	740	–	–	109	395
2401 – 2600	–	312	358	758	740	–	–	109	395
2601 – 2800	–	312	358	758	740	458	–	109	395
2801 – 3000	–	312	358	758	740	658	–	109	395

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	Centre lock
1101 – 1600	658	CL 600 E

Centre lock, bottom horizontal, with turn restrictor

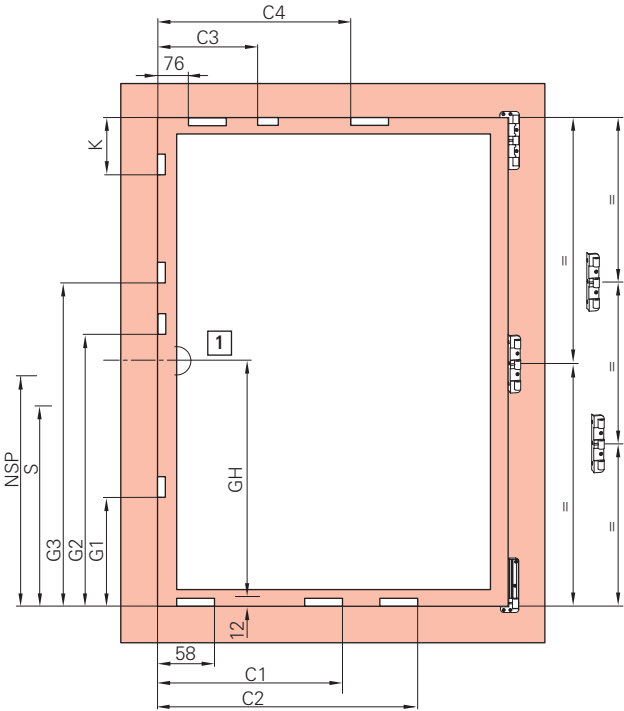
SRW [mm]	C1	Centre lock
1001 – 1200	462	CL 400 E
1201 – 1600	658	CL 600 E

Centre lock, top horizontal

SRW [mm]	C2	Centre lock
1101 – 1600	676	CL 600 E



6.8.1.6 Turn-Only hardware – RC 1 N

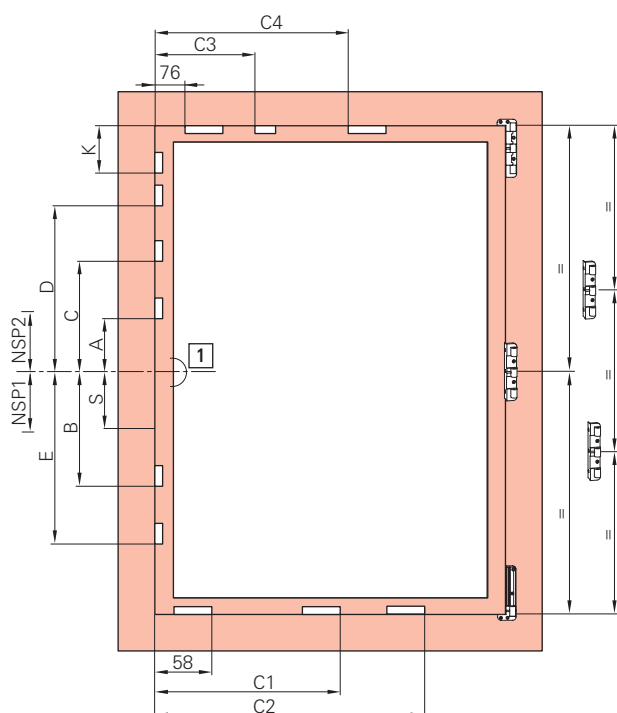


[1] Handle centre

□ Striker e.g.

T&T espagnolette, VT – fixed handle height

SRH [mm]	GH	G1	G2	G3	K	NSP	S
1200 – 1400	563	700	–	–	–	388	–
1401 – 1600	563	700	1170	–	–	388	–
1601 – 1800	563	700	1370	–	–	388	–
1601 – 2400	1000	700	1370	–	–	1121	807
2401 – 2600	1000	700	1370	1770	–	1121	807
2601 – 2800	1000	700	1370	1770	458	1121	807
2801 – 3000	1000	700	1370	1770	658	1121	807



[1] Handle centre

□ Striker e.g. 

T&T espagnolette – centred / variable handle height

SRH [mm]	A	B	C	D	E	K	NSP 1	NSP 2	S
1200 – 1600	125	340	–	–	–	–	137	–	–
1601 – 2000	–	312	358	–	–	–	–	109	395
2001 – 2400	–	312	358	758	740	–	–	109	395
2401 – 2600	–	312	358	758	740	–	–	109	395
2601 – 2800	–	312	358	758	740	458	–	109	395
2801 – 3000	–	312	358	758	740	658	–	109	395

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 800	258	–	CL 200 P
801 – 1000	462	–	CL 400 P
1001 – 1200	658	–	CL 600 P
1201 – 1400	658	858	CL 600 P KU + CL 200 P
1401 – 1600	658	1062	CL 600 P KU + CL 400 P

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	C2	Centre lock
800 – 1000	258	–	CL 200 P
1001 – 1200	462	–	CL 400 P
1201 – 1400	658	–	CL 600 P
1401 – 1600	658	858	CL 600 E KU + CL 200 P

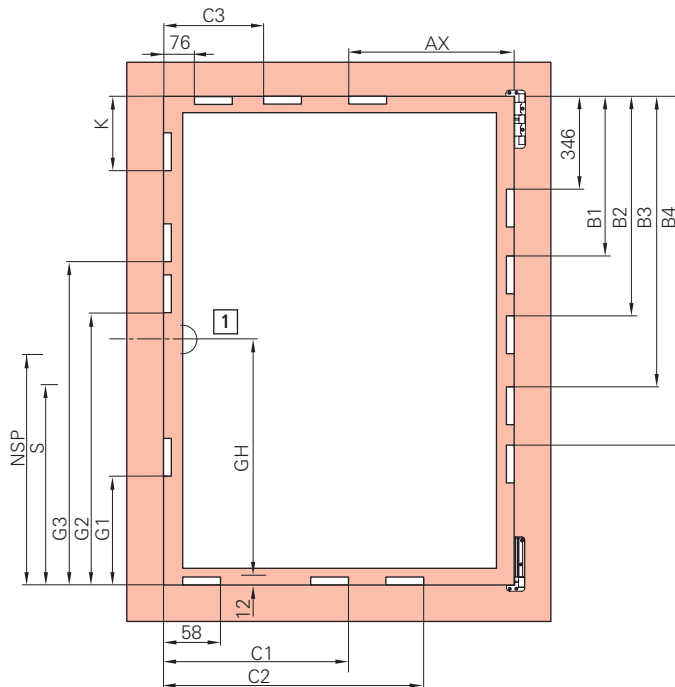
Centre lock, top horizontal

SRW [mm]	C3	C4	Centre lock
600 – 800	276	–	CL 200 P
801 – 1000	480	–	CL 400 P
1001 – 1200	676	–	CL 600 P
1201 – 1400	676	876	CL 600 P KU + CL 200 P



SRW [mm]	C3	C4	Centre lock
1401 – 1600	676	1080	CL 600 P KU + CL 400 P

6.8.1.7 Turn-Only hardware – RC 2 / RC 2 N



[1] Handle centre

□ Striker e.g.

T&T espagnolette, VT – fixed handle height

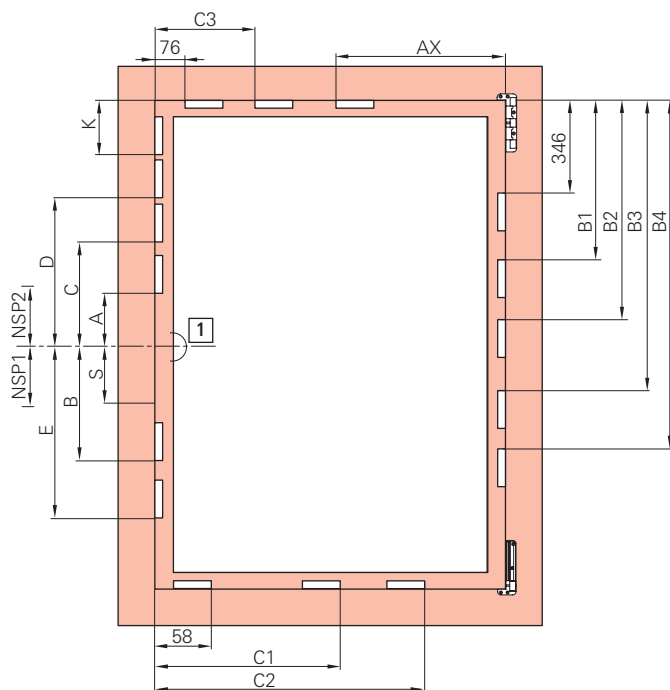
SRH [mm]	GH	G1	G2	G3	K	NSP	S
1201 – 1400	563	700	–	–	–	388	–
1401 – 1600	563	700	1170	–	–	388	–
1601 – 1800	563	700	1370	–	–	388	–
1601 – 1800	1000	700	1370	–	–	1121	807
1801 – 2000	1000	700	1370	–	–	1121	807
2001 – 2200	1000	700	1370	1770	–	1121	807
2201 – 2400	1000	700	1370	1770	–	1121	807
2401 – 2600	1000	700	1370	1770	258	1121	807
2601 – 2800	1000	700	1370	1770	458	1121	807

Installation

Frame

Position of strikers and tilt strikers

SRH [mm]	GH	G1	G2	G3	K	NSP	S
2801 – 3000	1000	700	1370	1770	658	1121	807



[1] Handle centre

□ Striker e.g. 

T&T espagnolette – centred / variable handle height

SRH [mm]	A	B	C	D	E	K	NSP 1	NSP 2	S
1200 – 1600	125	340	–	–	–	–	137	–	–
1601 – 2000	–	312	358	–	–	–	–	109	395
2001 – 2400	–	312	358	758	740	–	–	109	395
2401 – 2600	–	312	358	758	740	–	–	109	395
2601 – 2800	–	312	358	758	740	458	–	109	395
2801 – 3000	–	312	358	758	740	658	–	109	395

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1400	946	–	–	–	CL 200 V KU + CL 600 V
1401 – 1600	946	1146	–	–	CL 200 V KU + CL 600 V KU+ CL 200 V
1601 – 1800	946	1350	–	–	CL 200 V KU + CL 600 V KU+ CL 400 V
1801 – 2000	946	1546	–	–	CL 200 V KU + CL 600 V KU+ CL 600 V
2001 – 2200	946	1546	1746	–	CL 200 V KU + 2x CL 600 V KU+ CL 200 V
2201 – 2400	946	1546	1950	–	CL 200 V KU + 2x CL 600 V KU+ CL 400 V
2401 – 2600	946	1546	2146	–	CL 200 V KU + 2x CL 600 V KU+ CL 600 V
2601 – 2800	946	1546	2146	2346	CL 200 V KU + 3x CL 600 V KU + CL 200 V
2801 – 3000	946	1546	2146	2550	CL 200 V KU + 3x CL 600 V KU + CL 400 V

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 690	258	–	CL 200 V



SRW [mm]	C1	C2	Centre lock
691 – 890	462	–	CL 400 V
891 – 1090	658	–	CL 600 V
1091 – 1290	658	858	CL 600 V KU + CL 200 V
1291 – 1490	658	1062	CL 600 V KU + CL 400 V
1491 – 1600	658	1258	CL 600 V KU + CL 600 V

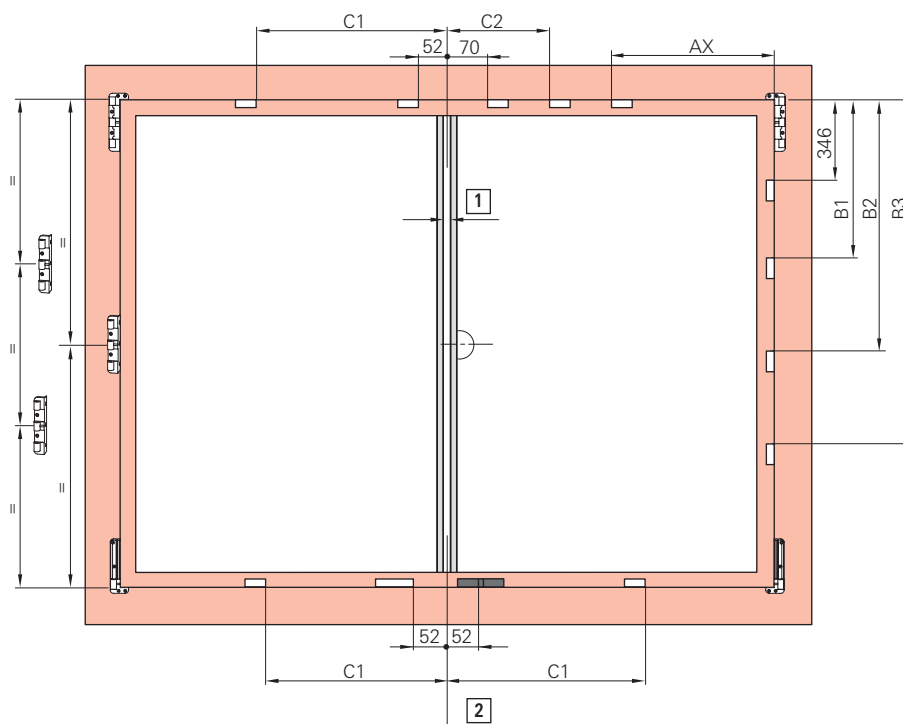
Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	C2	Centre lock
801 – 1000	258	–	CL 200 V
1001 – 1200	462	–	CL 400 V
1201 – 1400	658	–	CL 600 V
1401 – 1600	658	858	CL 600 V KU + CL 200 V

Centre lock, top horizontal

SRW [mm]	C3	Centre lock
1001 – 1200	276	CL 200 KU
1201 – 1400	476	CL 400 V KU
1401 – 1600	676	CL 600 V KU

6.8.1.8 Floating-mullion hardware, standard – basic security



[1] 12 mm rebate clearance between the sashes

[2] Rebate clearance centre

□ Striker e.g.

■ Tilt striker e.g.

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical

SRH [mm]	B1	B2	B3	Centre lock
1200 – 1800	946	–	–	CL 200 P KU + CL 600 E
1801 – 2600	946	1546	–	CL 200 P KU + CL 600 E KU + CL 600 E
2601 – 3000	946	1546	2146	CL 200 P KU + 2x CL 600 E KU + CL 600 E

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	Centre lock
1101 – 1600	652	CL 600 E

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	Centre lock
1001 – 1200	456	CL 400 E
1201 – 1600	652	CL 600 E

Centre lock, top horizontal

SRW [mm]	C2	Centre lock
1201 – 1400	470	CL 400 E KU
1401 – 1600	670	CL 600 E KU

Centre lock, top horizontal, Turn-Only sash

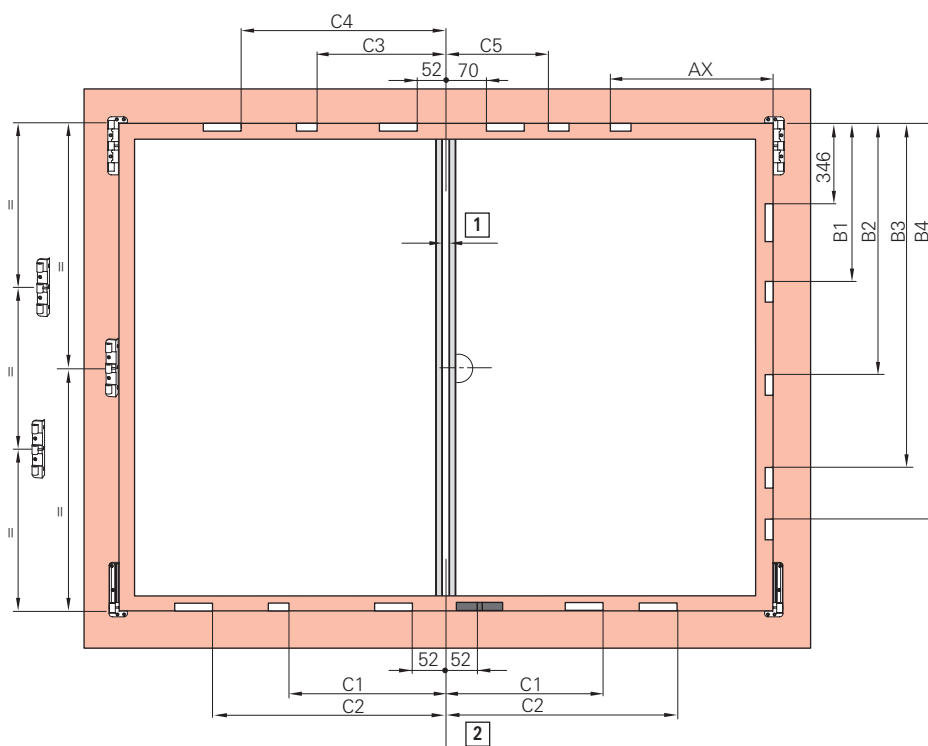
SRW [mm]	C1	Centre lock
1101 – 1600	652	CL 600 E



INFO

Mount the second opening sash with the lever-operated espagnolette open.

6.8.1.9 Floating-mullion hardware, standard – RC 1 N





[1] 12 mm rebate clearance between the sashes

[2] Rebate clearance centre

□ Striker e.g.

■ Tilt striker e.g.

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical, without anti-slam device

SRH [mm]	B1	B2	B3	Centre lock
1200 – 1800	946	–	–	CL 200 P KU + CL 600 E
1801 – 2600	946	1546	–	CL 200 P KU + CL 600 E KU + CL 600 E
2601 – 3000	946	1546	2146	CL 200 P KU + 2x CL 600 E KU + CL 600 E

Centre lock, vertical, with anti-slam device

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1800	546	950	–	–	2x CL 200 P KU + CL 400 E
1801 – 2600	546	1146	1550	–	2x CL 200 P KU + CL 600 E KU + CL 400 E
2601 – 3000	546	1146	1746	2150	2x CL 200 P KU + 2x CL 600 E KU + CL 400 E

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 800	252	–	CL 200 P
801 – 1000	456	–	CL 400 P
1001 – 1200	652	–	CL 600 P
1201 – 1400	652	852	CL 600 E KU + CL 200 P
1401 – 1600	652	1056	CL 600 E KU + CL 400 P

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	C2	Centre lock
801 – 1000	252	–	CL 200 P
1001 – 1200	456	–	CL 400 P
1201 – 1400	652	–	CL 600 P
1401 – 1600	652	852	CL 600 E KU + CL 200 P

Centre lock, top horizontal, Turn-Only sash

SRW [mm]	C3	C4	Centre lock
600 – 800	252	–	CL 200 P
801 – 1000	456	–	CL 400 P
1001 – 1200	652	–	CL 600 P
1201 – 1400	652	852	CL 600 P KU + CL 200 P
1401 – 1600	652	1052	CL 600 P KU + CL 400 P

Centre lock, top horizontal

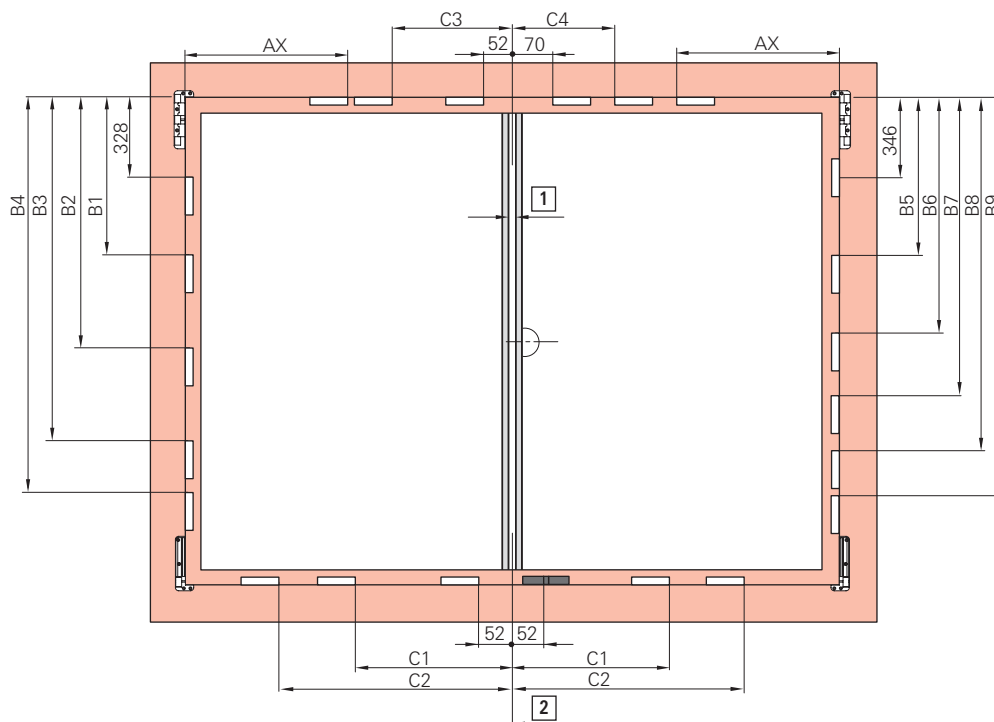
SRW [mm]	C5	Centre lock
1001 – 1200	270	CL 200 E KU
1201 – 1400	470	CL 400 E KU
1401 – 1600	670	CL 600 E KU



INFO

Mount the second opening sash with the lever-operated espagnolette open.

6.8.1.10 Floating-mullion hardware, standard – RC 2 / RC 2 N



[1] 12 mm rebate clearance between the sashes

[2] Rebate clearance centre

□ Striker e.g. 

■ Tilt striker e.g. 

Sash stay

SRW [mm]	AX	Size
801 – 1400	600	500 / 890

Sash stay of the Turn-Only sash

SRW [mm]	AX	Size
801 – 1400	618	500 / 890

Centre lock, vertical, Turn-Only sash

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1400	928	–	–	–	CL 200 V KU + CL 600 V
1401 – 1600	928	1128	–	–	CL 200 V KU + CL 600 V KU+ CL 200 V
1601 – 1800	928	1332	–	–	CL 200 V KU + CL 600 V KU+ CL 400 V
1801 – 2000	928	1528	–	–	CL 200 V KU + CL 600 V KU+ CL 600 V
2001 – 2200	928	1528	1728	–	CL 200 V KU + 2x CL 600 V KU+ CL 200 V
2201 – 2400	928	1528	1932	–	CL 200 V KU + 2x CL 600 V KU+ CL 400 V
2401 – 2600	928	1528	2128	–	CL 200 V KU + 2x CL 600 V KU+ CL 600 V
2601 – 2800	928	1528	2128	2328	CL 200 V KU + 3x CL 600 V KU + CL 200 V
2801 – 3000	928	1528	2128	2532	CL 200 V KU + 3x CL 600 V KU + CL 400 V

Centre lock, vertical, without anti-slam device

SRH [mm]	B5	B6	B7	B8	Centre lock
1200 – 1400	946	–	–	–	CL 200 V KU + CL 600 V
1401 – 1600	946	1146	–	–	CL 200 V KU + CL 600 V KU+ CL 200 V
1601 – 1800	946	1350	–	–	CL 200 V KU + CL 600 V KU+ CL 400 V
1801 – 2000	946	1546	–	–	CL 200 V KU + CL 600 V KU+ CL 600 V



SRH [mm]	B5	B6	B7	B8	Centre lock
2001 – 2200	946	1546	1746	–	CL 200 V KU + 2x CL 600 V KU + CL 200 V
2201 – 2400	946	1546	1950	–	CL 200 V KU + 2x CL 600 V KU + CL 400 V
2401 – 2600	946	1546	2146	–	CL 200 V KU + 2x CL 600 V KU + CL 600 V
2601 – 2800	946	1546	2146	2346	CL 200 V KU + 3x CL 600 V KU + CL 200 V
2801 – 3000	946	1546	2146	2550	CL 200 V KU + 3x CL 600 V KU + CL 400 V

Centre lock, vertical, with anti-slam device

SRH [mm]	B5	B6	B7	B8	B9	Centre lock
1200 – 1400	546	950	–	–	–	2x CL 200 V KU + CL 400 V
1401 – 1600	546	1146	–	–	–	2x CL 200 V KU + CL 600 V
1601 – 1800	546	1146	1346	–	–	2x CL 200 V KU + CL 600 V KU + CL 200 V
1801 – 2000	546	1146	1550	–	–	2x CL 200 V KU + CL 600 V KU + CL 400 V
2001 – 2200	546	1146	1746	–	–	2x CL 200 V KU + CL 600 V KU + CL 600 V
2201 – 2400	546	1146	1746	1946	–	2x CL 200 V KU + 2x CL 600 V KU + CL 200 V
2401 – 2600	546	1146	1746	2150	–	2x CL 200 V KU + 2x CL 600 V KU + CL 400 V
2601 – 2800	546	1146	1746	2346	–	2x CL 200 V KU + 2x CL 600 V KU + CL 600 V
2801 – 3000	546	1146	1746	2346	2546	2x CL 200 V KU + 3x CL 600 V KU + CL 200 V

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 690	252	–	CL 200 V
691 – 890	456	–	CL 400 V
891 – 1090	652	–	CL 600 V
1091 – 1290	652	852	CL 600 V KU + CL 200 V
1291 – 1400	652	1056	CL 600 V KU + CL 400 V

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	Centre lock
801 – 1000	252	CL 200 V
1001 – 1200	456	CL 400 V
1201 – 1400	652	CL 600 V

Centre lock, top horizontal

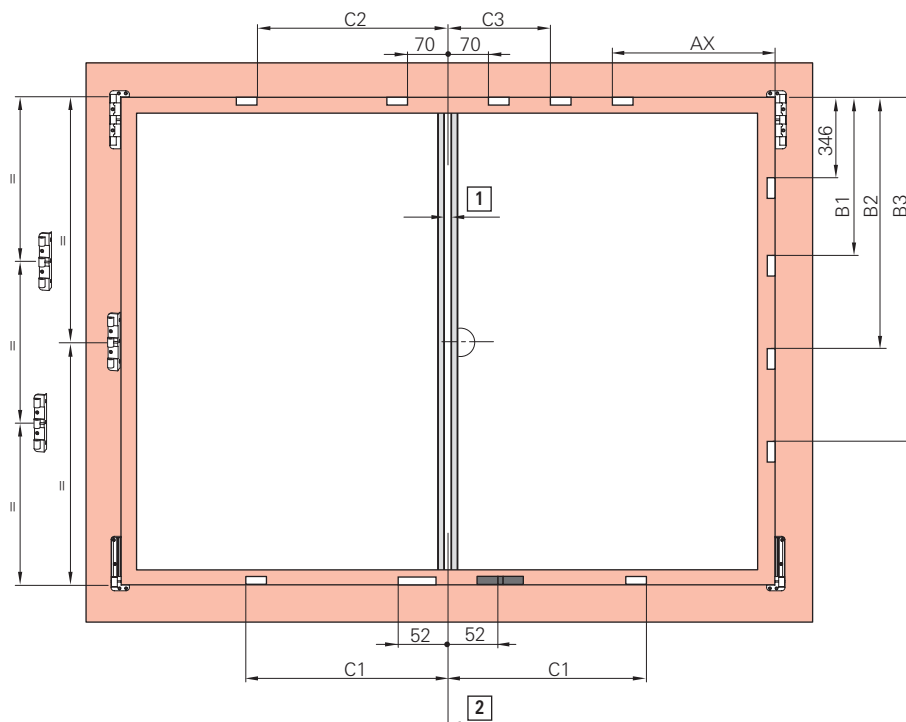
SRW [mm]	C3	C4	Centre lock
1001 – 1200	252	270	CL 200 KU
1201 – 1400	452	470	CL 400 V KU



INFO

Mount the second opening sash with the lever-operated espagnolette open.

6.8.1.11 Floating-mullion hardware Plus – basic security



[1] 12 mm rebate clearance between the sashes

[2] Rebate clearance centre

□ Striker e.g. 

■ Tilt striker e.g. 

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical

SRH [mm]	B1	B2	B3	Centre lock
1200 – 1800	946	–	–	CL 200 P KU + CL 600 E
1801 – 2600	946	1546	–	CL 200 P KU + CL 600 E KU + CL 600 E
2601 – 3000	946	1546	2146	CL 200 P KU + 2x CL 600 E KU + CL 600 E

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	Centre lock
1101 – 1600	652	CL 600 E

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	Centre lock
1001 – 1200	456	CL 400 E
1201 – 1600	652	CL 600 E

Centre lock, top horizontal, Turn-Only sash

SRW [mm]	C2	Centre lock
1101 – 1600	670	CL 600 E



Centre lock, top horizontal

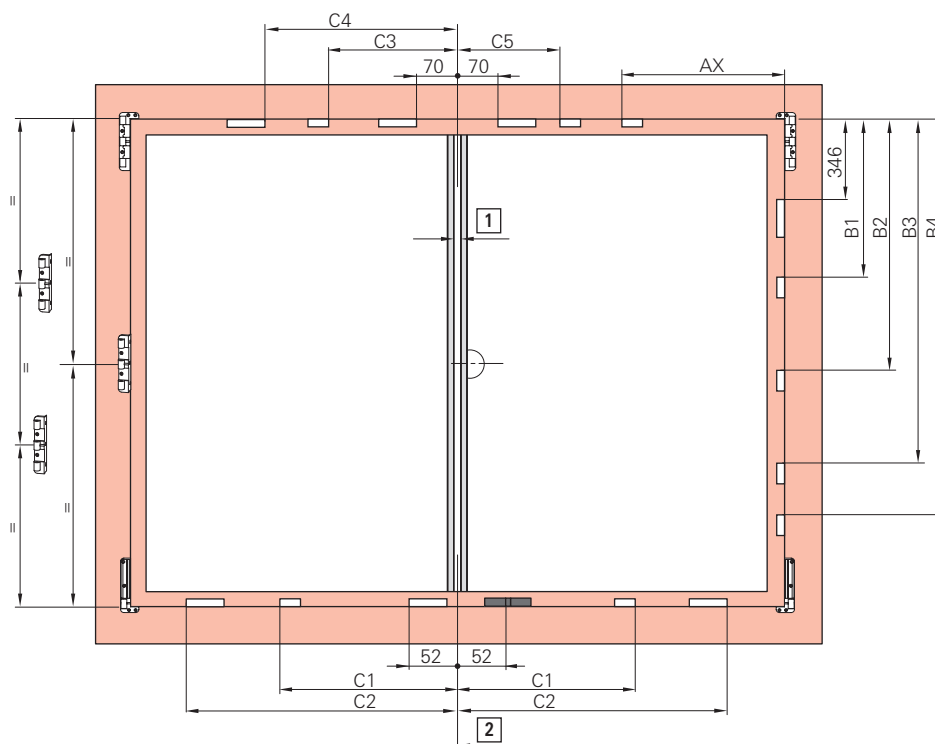
SRW [mm]	C3	Centre lock
1001 – 1200	270	CL 200 E KU
1201 – 1400	470	CL 400 E KU
1401 – 1600	670	CL 600 E KU



INFO

Mount the second opening sash with the lever-operated espagnolette open.

6.8.1.12 Floating-mullion hardware Plus – RC 1 N



[1] 12 mm rebate clearance between the sashes

[2] Rebate clearance centre

□ Striker e.g.

■ Tilt striker e.g.

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical, without anti-slam device

SRH [mm]	B1	B2	B3	Centre lock
1200 – 1800	946	–	–	CL 200 P KU + CL 600 E
1801 – 2600	946	1546	–	CL 200 P KU + CL 600 E KU + CL 600 E
2601 – 3000	946	1546	2146	CL 200 P KU + 2x CL 600 E KU + CL 600 E

Centre lock, vertical, with anti-slam device

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1800	546	950	–	–	2x CL 200 P KU + CL 400 E
1801 – 2600	546	1146	1550	–	2x CL 200 P KU + CL 600 E KU + CL 400 E

SRH [mm]	B1	B2	B3	B4	Centre lock
2601 – 3000	546	1146	1746	2150	2x CL 200 P KU + 2x CL 600 E KU + CL 400 E

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 800	252	–	CL 200 P
801 – 1000	456	–	CL 400 P
1001 – 1200	652	–	CL 600 P
1201 – 1400	652	852	CL 600 P KU + CL 200 P
1401 – 1600	652	1056	CL 600 P KU + CL 400 P

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 1000	252	–	CL 200 P
1001 – 1200	456	–	CL 400 P
1201 – 1400	652	–	CL 600 P
1401 – 1600	652	852	CL 600 E KU + CL 200 P

Centre lock, top horizontal, Turn-Only sash

SRW [mm]	C3	C4	Centre lock
600 – 800	270	–	CL 200 P
801 – 1000	474	–	CL 400 P
1001 – 1200	670	–	CL 600 P
1201 – 1400	670	870	CL 600 P KU + CL 200 P
1401 – 1600	670	1070	CL 600 P KU + CL 400 P

Centre lock, top horizontal

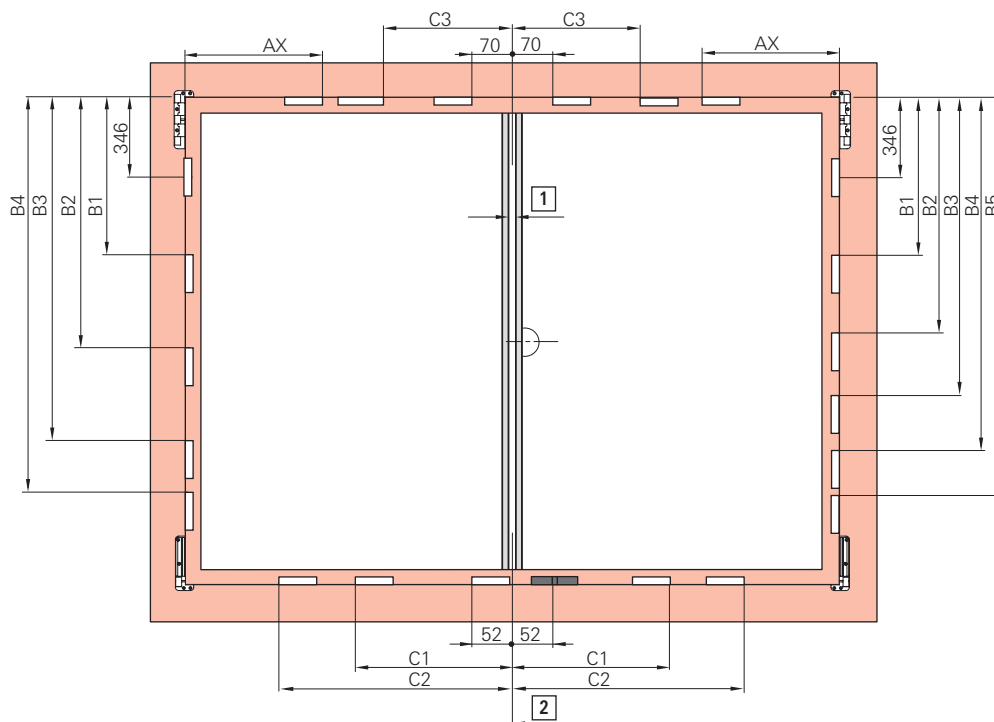
SRW [mm]	C5	Centre lock
1001 – 1200	270	CL 200 E KU
1201 – 1400	470	CL 400 E KU
1401 – 1600	670	CL 600 E KU


INFO

Mount the second opening sash with the lever-operated espagnolette open.



6.8.1.13 Floating-mullion hardware Plus – RC 2 / RC 2 N



[1] 12 mm rebate clearance between the sashes

[2] Rebate clearance centre

□ Striker e.g. 

■ Tilt striker e.g. 

Sash stay

SRW [mm]	AX	Size
801 – 1600	600	500 / 890

Centre lock, vertical, without anti-slam device

SRH [mm]	B1	B2	B3	B4	Centre lock
1200 – 1400	946	–	–	–	CL 200 V KU + CL 600 V
1401 – 1600	946	1146	–	–	CL 200 V KU + CL 600 V KU+ CL 200 V
1601 – 1800	946	1350	–	–	CL 200 V KU + CL 600 V KU+ CL 400 V
1801 – 2000	946	1546	–	–	CL 200 V KU + CL 600 V KU+ CL 600 V
2001 – 2200	946	1546	1746	–	CL 200 V KU + 2x CL 600 V KU+ CL 200 V
2201 – 2400	946	1546	1950	–	CL 200 V KU + 2x CL 600 V KU+ CL 400 V
2401 – 2600	946	1546	2146	–	CL 200 V KU + 2x CL 600 V KU+ CL 600 V
2601 – 2800	946	1546	2146	2346	CL 200 V KU + 3x CL 600 V KU + CL 200 V
2801 – 3000	946	1546	2146	2550	CL 200 V KU + 3x CL 600 V KU + CL 400 V

Centre lock, vertical, with anti-slam device

SRH [mm]	B1	B2	B3	B4	B5	Centre lock
1200 – 1400	546	950	–	–	–	2x CL 200 V KU + CL 400 V
1401 – 1600	546	1146	–	–	–	2x CL 200 V KU + CL 600 V
1601 – 1800	546	1146	1346	–	–	2x CL 200 V KU + CL 600 V KU + CL 200 V
1801 – 2000	546	1146	1550	–	–	2x CL 200 V KU + CL 600 V KU + CL 400 V
2001 – 2200	546	1146	1746	–	–	2x CL 200 V KU + CL 600 V KU + CL 600 V
2201 – 2400	546	1146	1746	1946	–	2x CL 200 V KU + 2x CL 600 V KU + CL 200 V
2401 – 2600	546	1146	1746	2150	–	2x CL 200 V KU + 2x CL 600 V KU + CL 400 V
2601 – 2800	546	1146	1746	2346	–	2x CL 200 V KU + 2x CL 600 V KU + CL 600 V

SRH [mm]	B1	B2	B3	B4	B5	Centre lock
2801 – 3000	546	1146	1746	2346	2546	2x CL 200 V KU + 3x CL 600 V KU + CL 200 V

Centre lock, bottom horizontal, without turn restrictor

SRW [mm]	C1	C2	Centre lock
600 – 690	252	–	CL 200 V
691 – 890	456	–	CL 400 V
891 – 1090	652	–	CL 600 V
1091 – 1290	652	852	CL 600 V KU + CL 200 V
1291 – 1400	652	1056	CL 600 V KU + CL 400 V

Centre lock, bottom horizontal, with turn restrictor

SRW [mm]	C1	Centre lock
801 – 1000	252	CL 200 V
1001 – 1200	456	CL 400 V
1201 – 1400	652	CL 600 V

Centre lock, top horizontal

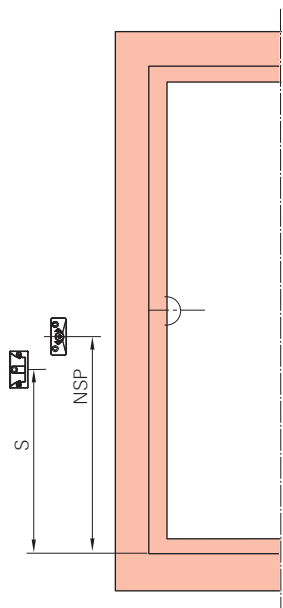
SRW [mm]	C3	Centre lock
1001 – 1200	270	CL 200 KU
1201 – 1400	470	CL 400 V KU


INFO

Mount the second opening sash with the lever-operated espagnolette open.



6.8.2 Position of the lifting mishandling device and bullet catch

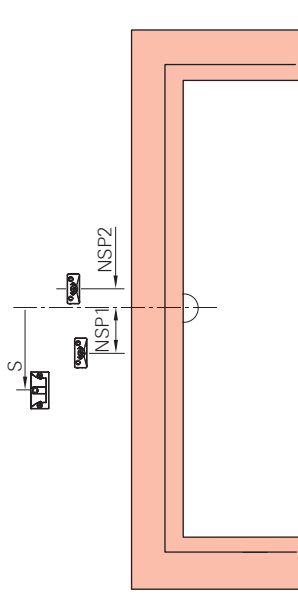


[NSP] Lifting mishandling device

[S] Bullet catch

T&T espagnolette, VT – fixed handle height

SRH [mm]	NSP	S
1201 – 1400	388	–
1401 – 1600	388	–
1601 – 1800	388	–
1601 – 1800	1121	807
1801 – 2000	1121	807
2001 – 2600	1121	807
2601 – 2800	1121	807



[NSP] = Lifting mishandling device

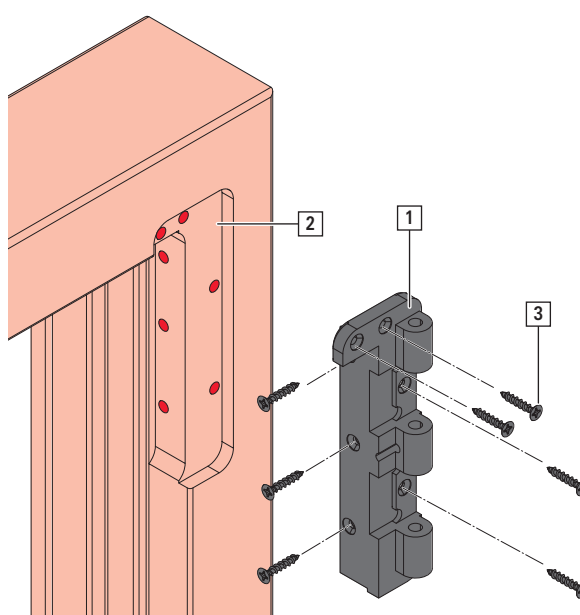
[S] Bullet catch

T&T espagnolette – centred / variable handle height

SRH [mm]	NSP 1	NSP 2	S
1200 – 1600	137	–	–
1601 – 2000	–	109	395
2001 – 2400	–	109	395
2401 – 2600	–	109	395
2601 – 2800	–	109	395

6.8.3 Stay bearing

1. Place the stay bearing [1] in the pre-routed recess [2] in the frame.



2. Fasten with screws [3]. Fill every screw hole.



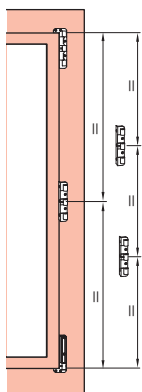
6.8.4 Central bearing



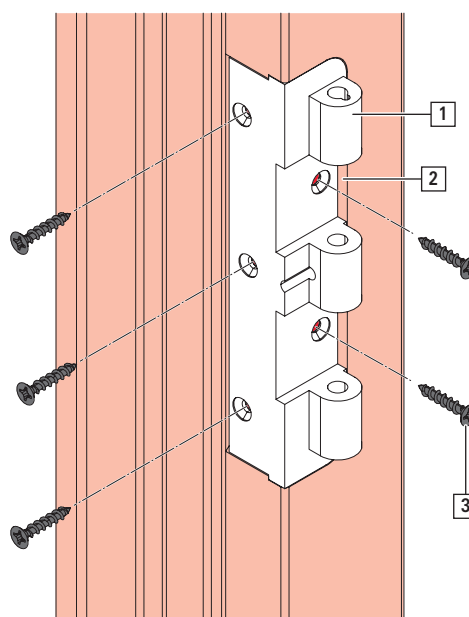
INFO

With SRH 1200 – 2000 mm, position one central bearing in the middle.

With SRH > 2001 mm, fit two central bearings.



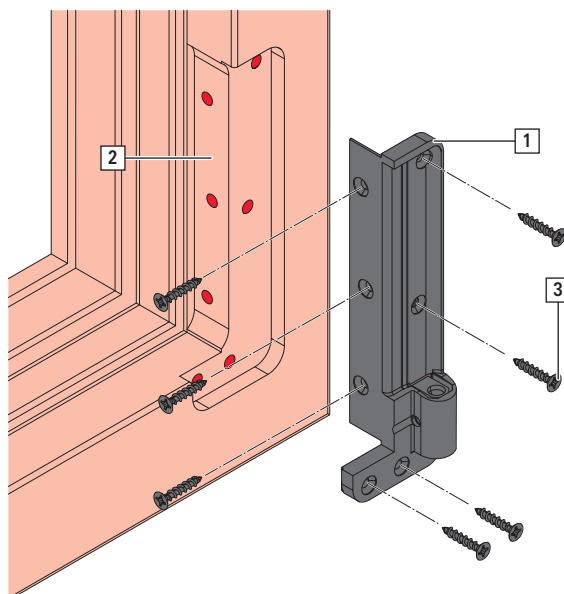
1. Place the central bearing [1] in the pre-routed recess [2] in the frame.



2. Fasten with screws [3]. Fill every screw hole.

6.8.5 Pivot rest

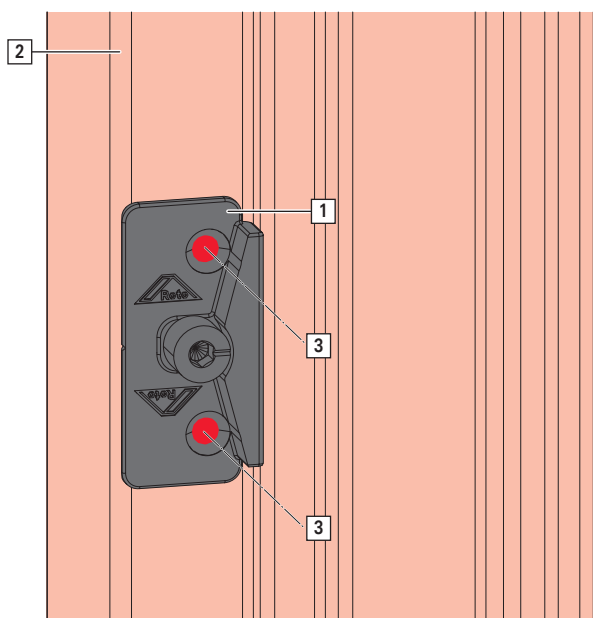
1. Place the pivot rest [1] in the pre-routed recess [2] in the frame.



2. Fasten with screws [3]. Fill every screw hole.

6.8.6 Lifting mishandling device

1. Position the lifting mishandling device frame component [1] in the frame [2].

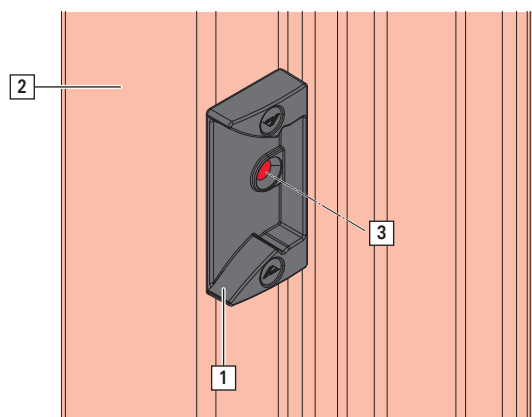


2. Secure with two screws [3].



6.8.7 Bullet catch

1. Position the bullet-catch frame component [1] in the frame [2].

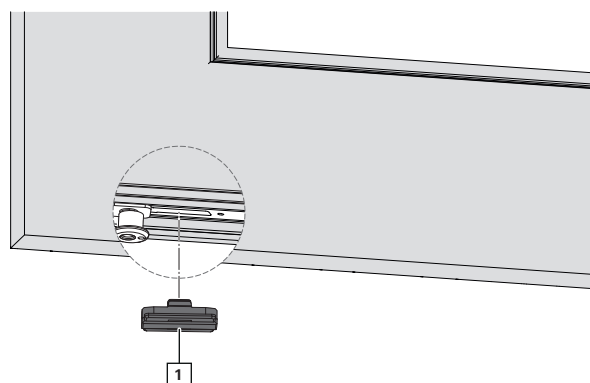


2. Fasten with a screw [3].

6.9 Accessories

6.9.1 Travel restrictor

1. Clip the travel restrictor [1] into the locking cam groove.



6.9.2 Anti-slam device



INFO

Only for hardware axis 13 and from a rebate depth of 24 mm.



INFO

Only for use in conjunction with P or V cam.

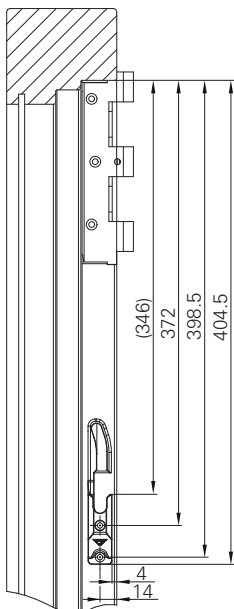
Use an anti-slam device for timber / aluminium windows and from a glass centre of mass of > 33 mm (measured from the sash overlap).

Installing an anti-slam device prevents the sash from slamming shut by itself from the tilt position.

Dimensions

Tilt&Turn window

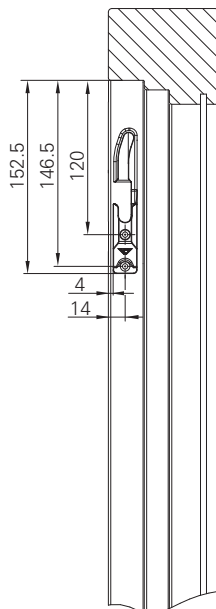
Position: hinge side



Drilling jig: 840139

TiltFirst window

Position: espagnolette side

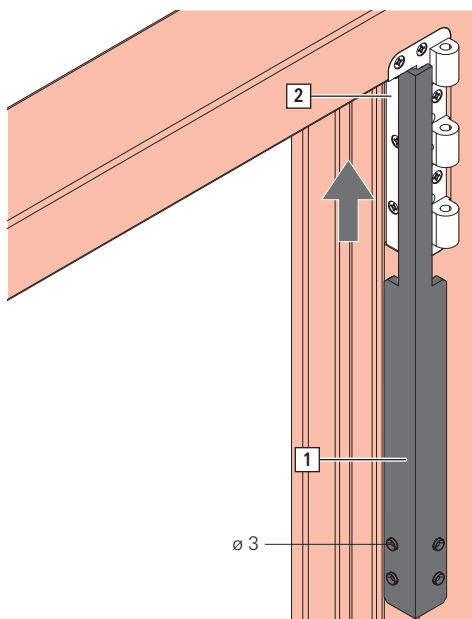


Drilling jig: 2025119



Installation in Tilt&Turn windows

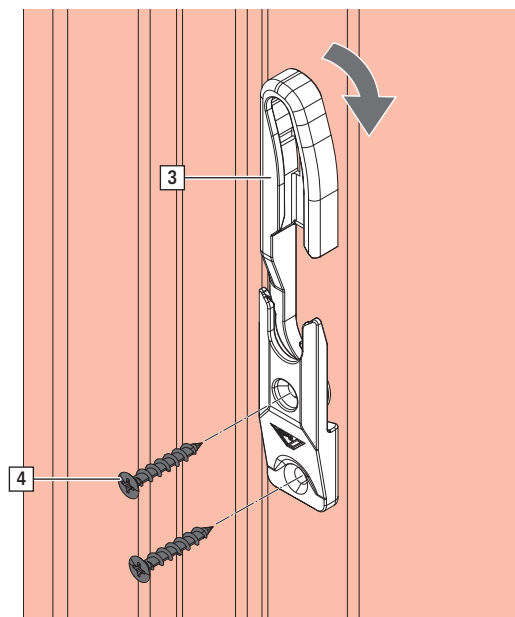
1. Place the drilling jig [1] on the top frame corner [2].



2. Drill holes in the frame rebate: 2x Ø 3 mm.

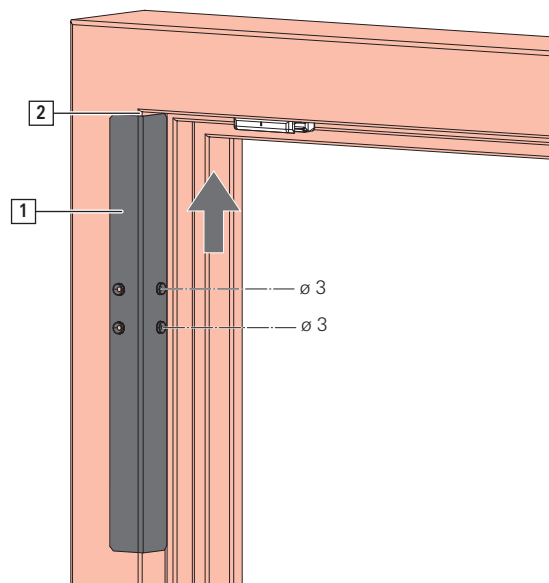
3. Fasten the anti-slam device [3] with two screws [4].

The anti-slam device lever must be able to move freely. If it makes contact with the frame, use a support plate (mat. no. 808778).



Installation in TiltFirst windows

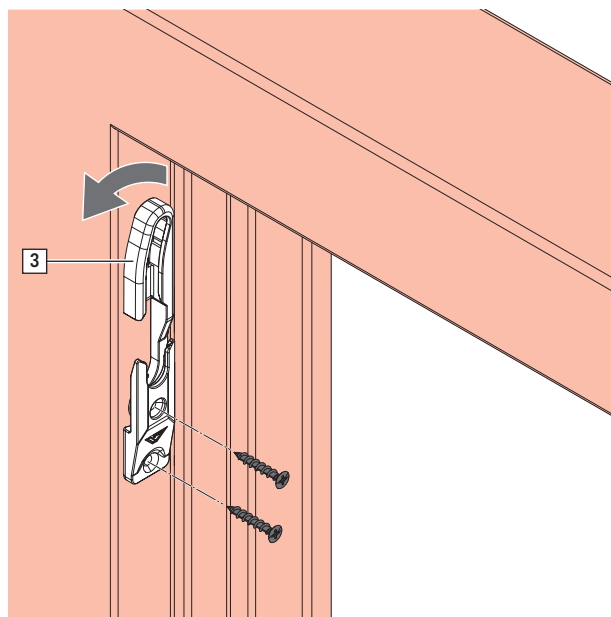
1. Place the drilling jig [1] on the top frame corner [2] of the espagnolette side.



2. Drill holes in the frame rebate: 2x Ø 3 mm.

3. Fasten the anti-slam device [3] with two screws [4].

The anti-slam device lever must be able to move freely. If it makes contact with the frame, use a support plate (mat. no. 808778).





6.9.3 Turn restrictor 335

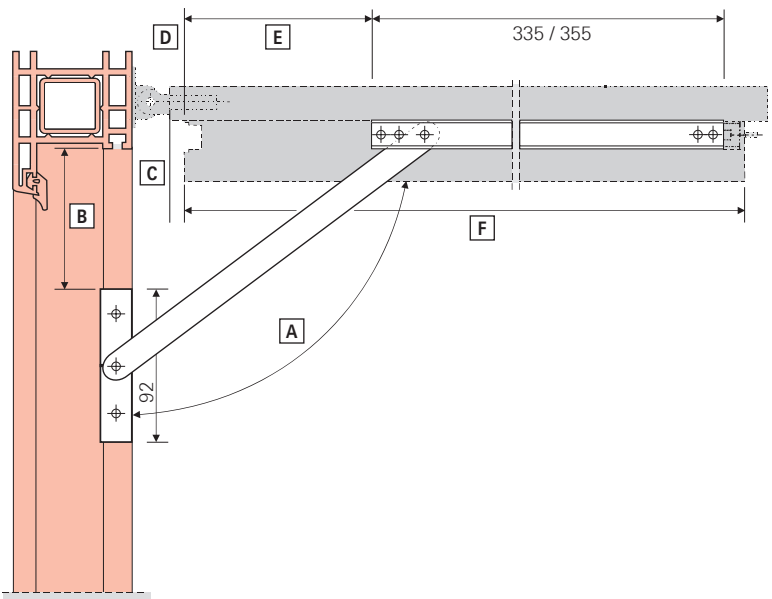


INFO Comfort component

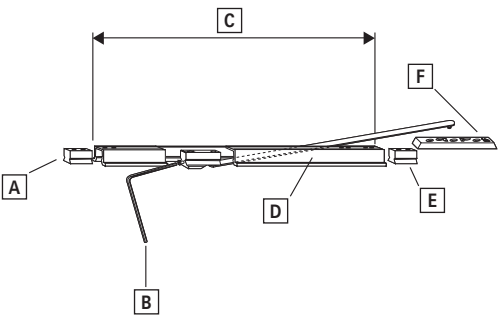
Not a security component in accordance with DIN EN 13126-5



INFO
Installation of a turn restrictor is mandatory with S.kg > 160 kg.



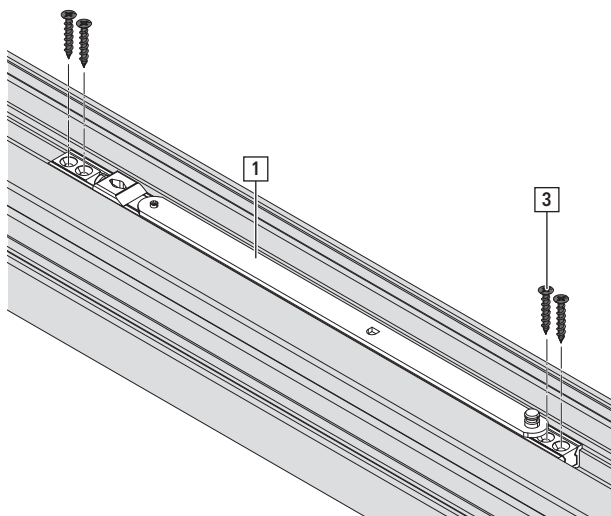
Assignment	Meaning	
[A]	Opening angle $90^\circ \pm 3^\circ$	Opening angle $65^\circ / 80^\circ / 90^\circ$
[B]	Frame installation dimension: 100 mm	
[C]	Overlap edge	
[D]	Sash rebate edge	
[E]	Sash installation dimension: 125 mm	
[F]	SRW min. 475 mm	



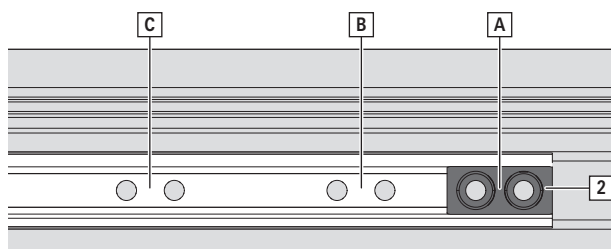
Assignment	Meaning
[A]	Stop
[B]	Brake which can be adjusted with size 4 hex key
[C]	335 mm
[D]	Aluminium guide track on the sash
[E]	Stop
[F]	Bearing which can be screwed onto the frame

6.9.3.1 Sash component

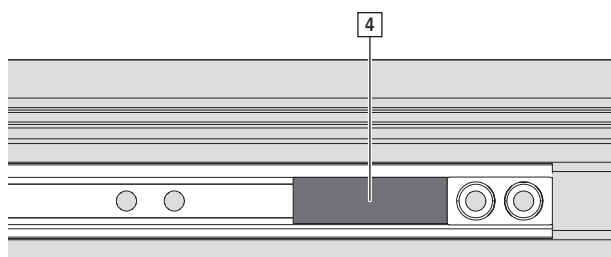
1. Position the turn restrictor [1] in the sash groove.



2. Set the opening angle. Slide the stop block [2] to position A (90°), B (80°) or C (65°).

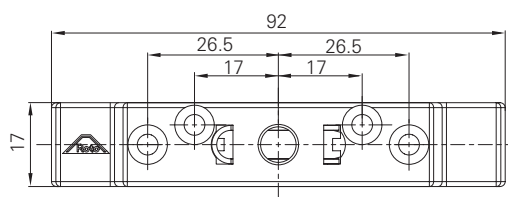


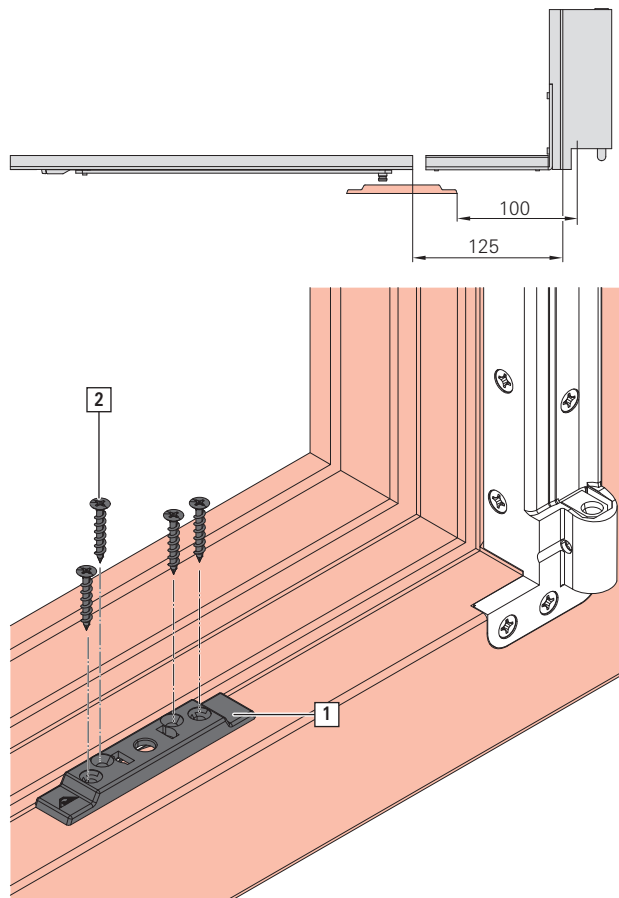
3. Fasten the turn restrictor with four screws [3].
4. Retrofitting a limiting clip [4] (mat no. 794909) enables the opening angle to be limited to 85°.



6.9.3.2 Frame component

1. Position the turn restrictor frame component [1] in the frame rebate.
 Pay attention to the installation position: holes must not be at the frame edge. The logo points towards the frame edge.





2. Fasten with four screws [2].

6.9.4 Anti-jemmy device

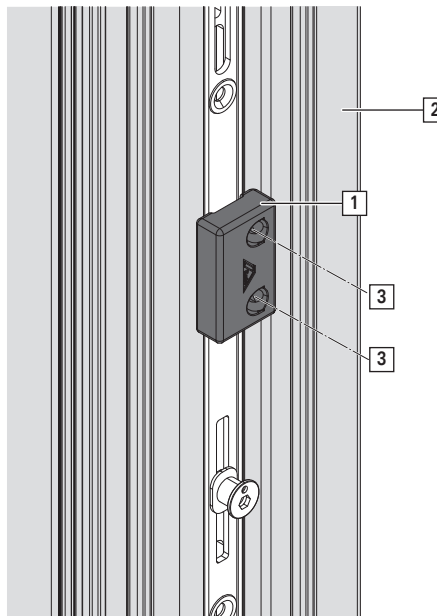


INFO

Only possible for hardware axis 13.

Rebate depth at least 24 mm.

1. Position the anti-jemmy device [1] on the sash [2].

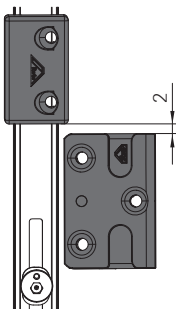


2. Fasten with two screws [3] at an angle in the direction of the overlap.

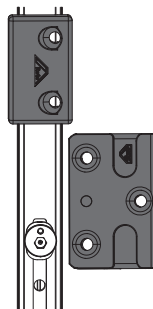
Positioning

The anti-jemmy device runs in approx. 2 mm behind the striker.

Opening position



Locked position



Fit an anti-jemmy device on four sides:

- Hinge side – second-last locking point above the pivot rest.
- Locking side – top locking point.
- Horizontally at the top – on the corner drive, standard
- Horizontally at the bottom – first locking point after the tilt striker.



6.10 Joining the sash and frame



CAUTION

Heavy loads pose the risk of injury and property damage.

Lifting and carrying heavy loads in an uncontrolled manner may lead to physical injury and property damage.

- ▶ Transport and installation must be carried out by at least two people.
- ▶ Use transportation means. → 11 "Transport" from page 223

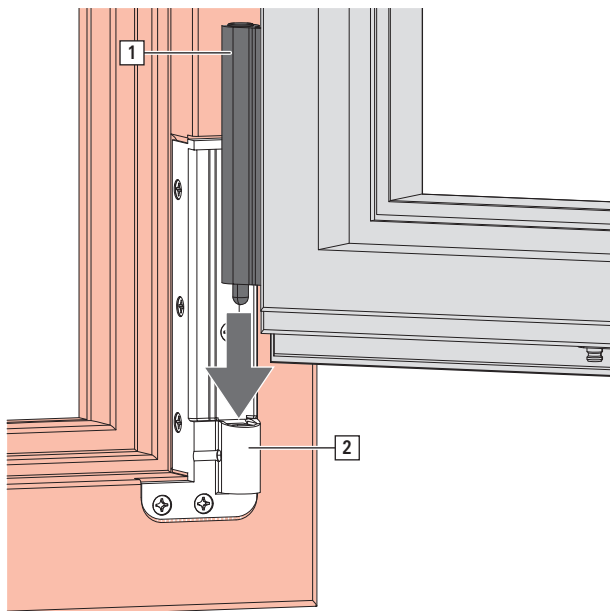
6.10.1 Connecting the corner hinge to the pivot rest



INFO

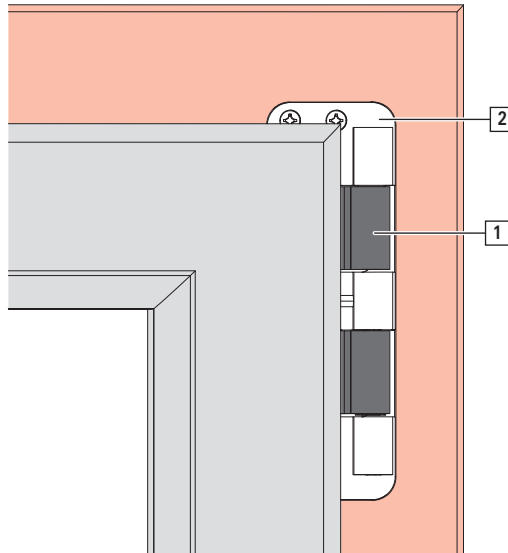
The frame grooves and sash grooves, as well as the components installed in them, must be free from construction materials.

1. Handle in turn position.
2. Guide the sash along the frame in a downwards direction until you feel the corner hinge [1] engage in the pivot rest [2].



6.10.2 Connecting the stay hinge to the stay bearing

1. Insert the sash with stay hinge [1] into the stay bearing [2].



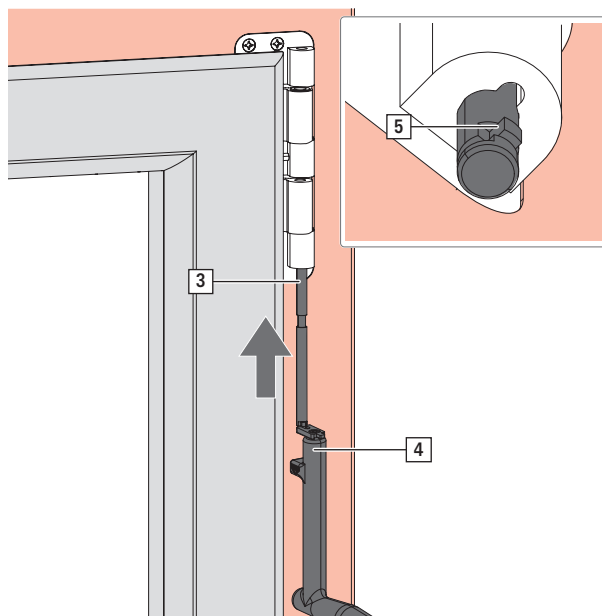
2. Close the sash.

Installing the stay-bearing pin

1. Install the stay-bearing pin [3] with extractor handle [4].
The anti-turn device [5] must engage in the recess provided.

**INFO**

Do not hit in the stay-bearing pin using a hammer.



2. Fully insert the stay-bearing pin into the stay bearing until the securing mechanism engages.

**WARNING****An unsecured sash may pose a risk of death!**

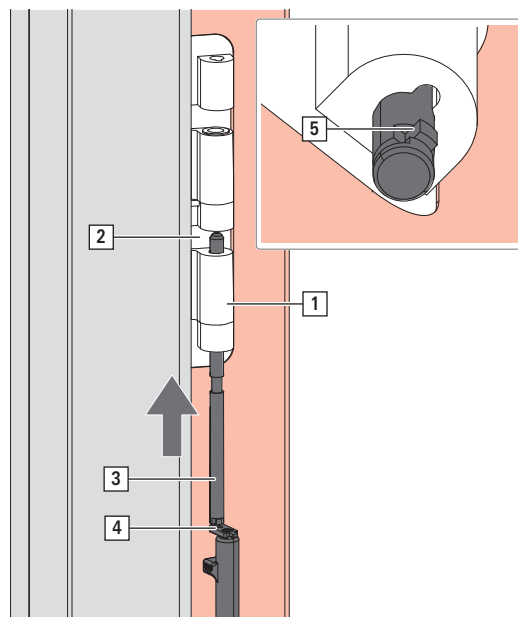
The sash may fall during installation if it is not securely connected to the frame.

- Secure the sash to prevent it from falling, e.g. by using two people.



6.10.3 Connecting the central hinge to the central bearing

1. Insert the sash with central hinge [1] into the central bearing [2].



2. Install the stay-bearing pin [3] with extractor handle [4]. The stay-bearing pin can be pushed in from the above or below.

The anti-turn device [5] must engage in the recess provided.

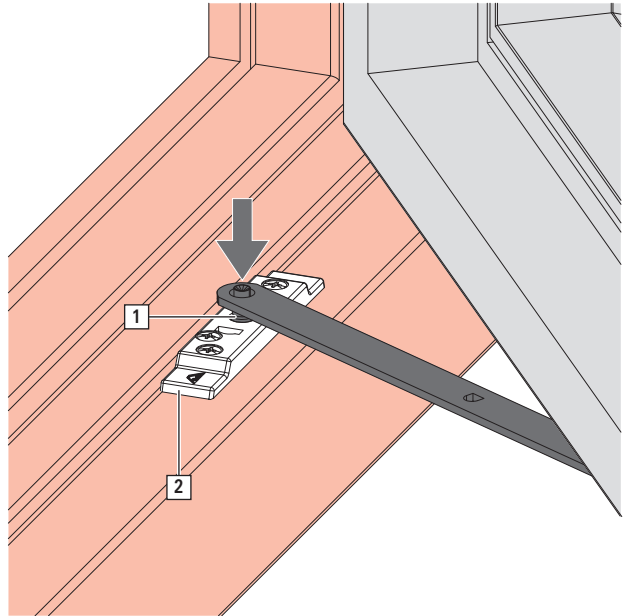
**INFO**

Do not hit in the stay-bearing pin using a hammer.

3. Fully insert the stay-bearing pin into the stay bearing until the securing mechanism engages.

6.10.4 Turn restrictor

1. Clip the lock pin [1] into the frame component [2].





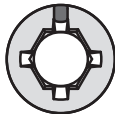
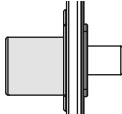
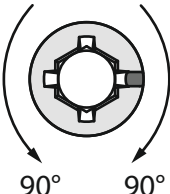
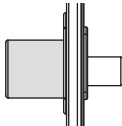
7 Adjustment



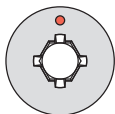
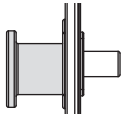
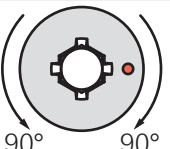
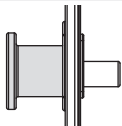
INFO
Roto hardware components may only be adjusted by authorised professionals when the element is installed.

7.1 Locking cam

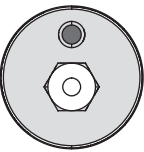
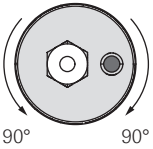
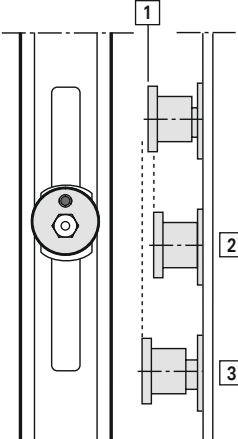
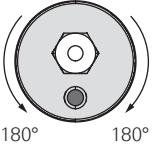
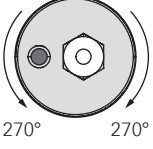
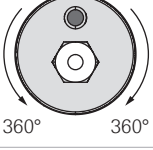
E cam

E cam	Adjustment distance	Gasket compression adjustment [mm]	Height	Side view
				
	 90° 90°	±0.8 mm		

P cam

P cam	Adjustment distance	Gasket compression adjustment [mm]	Height	Side view
				
	 90° 90°	±0.8 mm		

V cam

V cam	Adjustment distance	Gasket compression adjustment [mm]	Height adjustment [mm]	Side view
			+1.5 mm -0.8 mm	
	90° 90°	±0.8 mm	±0.125 mm	 <p>[1] 0 = initial position [2] -0.8 mm max. adjustment [3] +1.5 mm max. adjustment</p>
	180° 180°		±0.25 mm	
	270° 270°	±0.8 mm	±0.375 mm	
	360° 360°		±0.5 mm	

7.2 Pivot rest and corner hinge

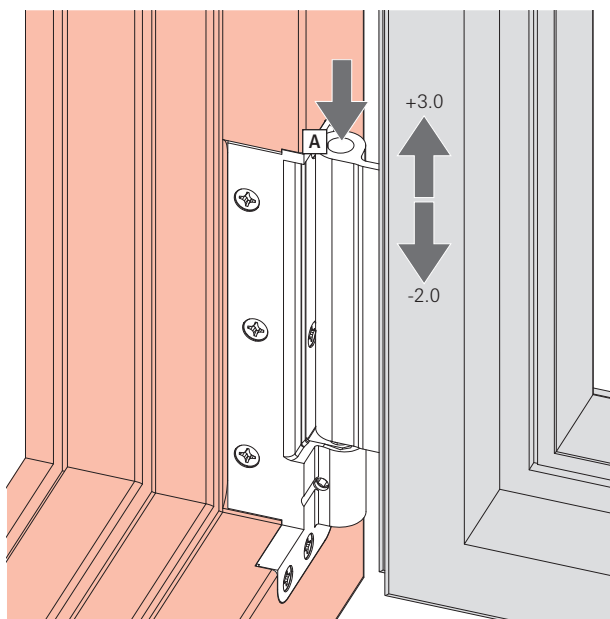
Height adjustment

1. Move the handle to the turn position and open the sash.
If necessary, take the load off the sash, e.g. using an air wedge.



2. Height adjustment -2.0 / +3.0 mm via screw [A] in the corner hinge.

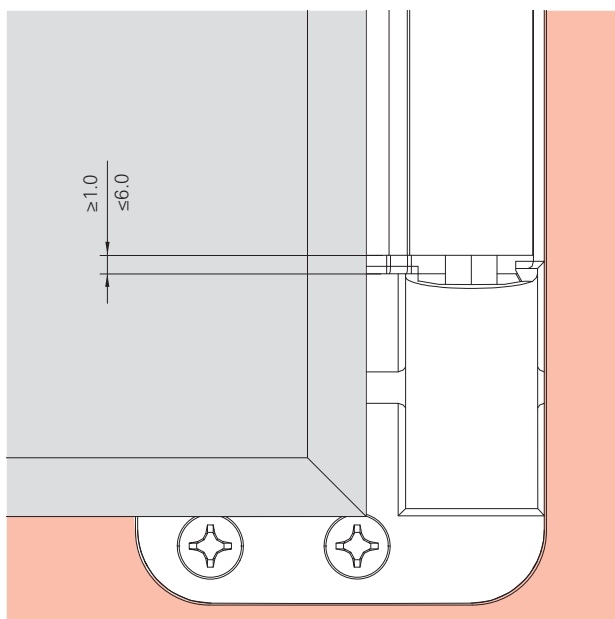
Tool: hex key WAF 4.



Reference dimension

The permissible adjustment range can be identified from the distance between the pivot rest and corner hinge.

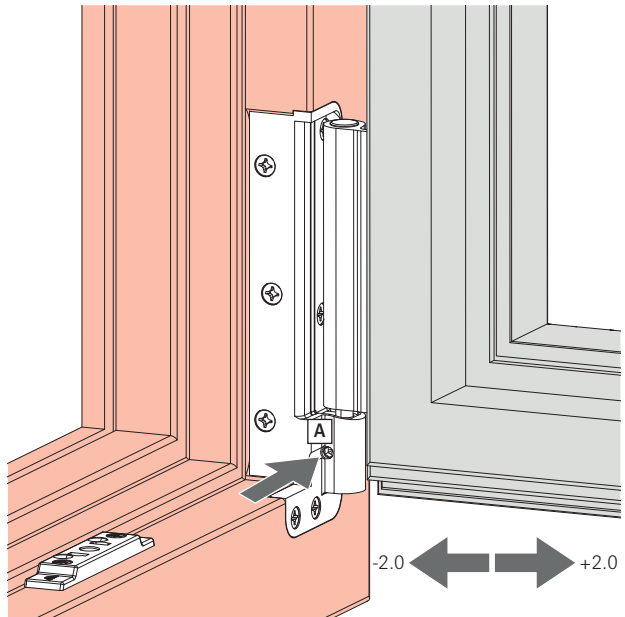
A distance of 1.0 mm is equal to an adjustment distance -2.0 mm, while a distance of 6.0 mm corresponds to an adjustment distance of +3.0 mm.



Lateral adjustment

1. Move the handle to the turn position and open the sash.

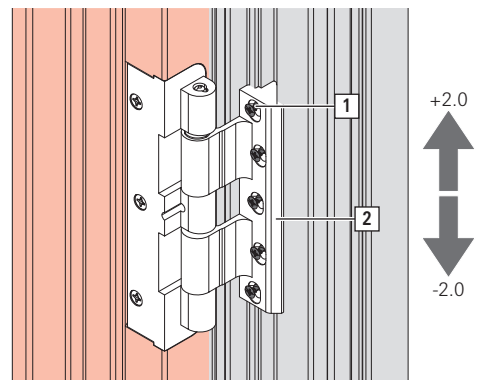
2. Lateral adjustment ± 2.0 mm via screw [B] in the pivot rest.
Tool: hex key WAF 4.



7.3 Central hinge

Height adjustment

1. Move the handle to the turn position and open the sash.
If necessary, take the load off the sash, e.g. using an air wedge.
2. Undo the screws [1] of the central hinge [2].
3. Height adjustment ± 2.0 via slots in the central hinge.



4. Tighten the screws.

7.4 Sash stay

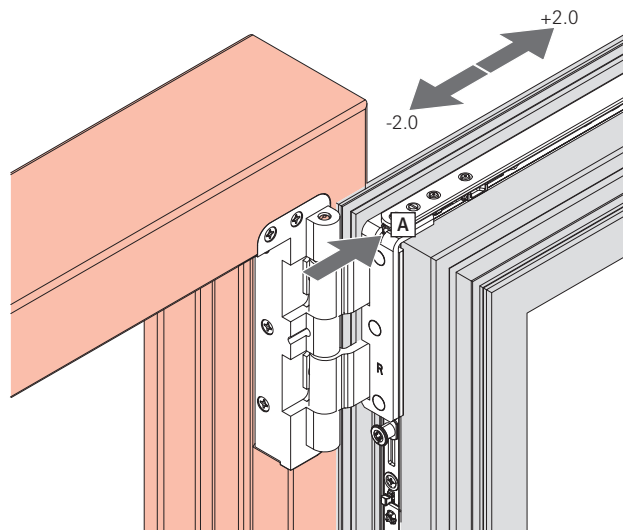
Lateral adjustment

1. Move the handle to the turn position and open the sash.



2. Lateral adjustment ± 2.0 mm via screw [A] in the sash stay.

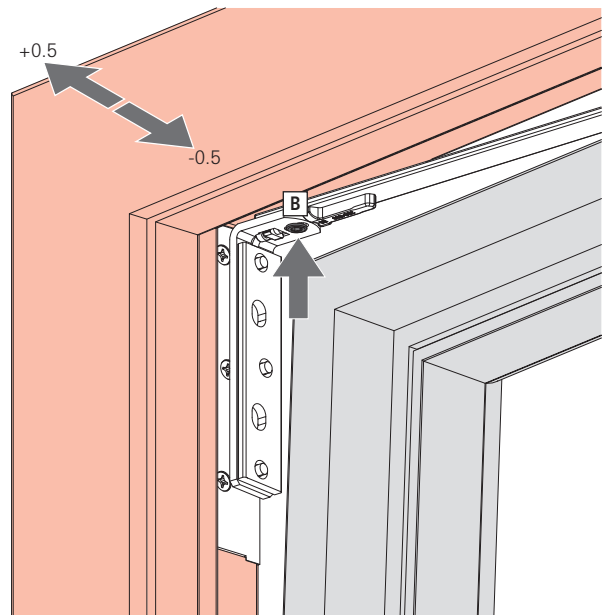
Tool: hex key WAF 4.



Gasket compression adjustment

1. Move the sash to the tilt position.
2. Gasket compression adjustment ± 0.5 mm via eccentric [B] in the sash stay.

Tool: hex key WAF 4.



7.5 Rebate sash stay

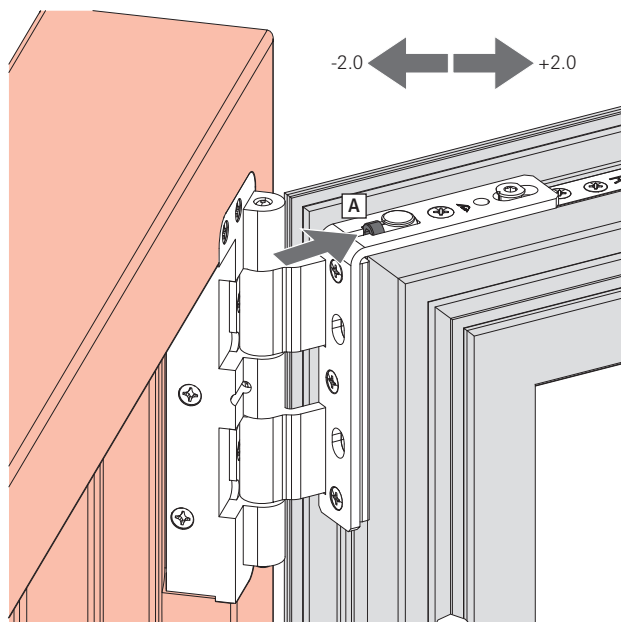
Lateral adjustment

1. Move the handle to the turn position and open the sash.

Adjustment

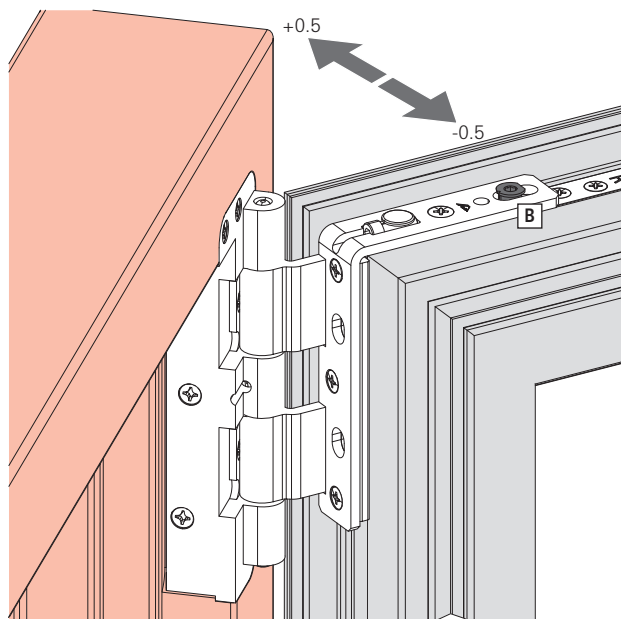
Rebate sash stay

2. Lateral adjustment ± 2.0 mm via screw [A] in the rebate sash stay.
Tool: hex key WAF 4.



Gasket compression adjustment

1. Move the handle to the turn position and open the sash.
2. Gasket compression adjustment ± 0.5 mm via eccentric [B] in the rebate sash stay.
Tool: hex key WAF 4.





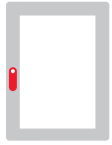
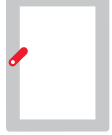
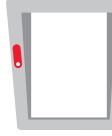
8 Operation

8.1 Operating information

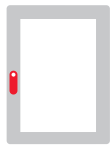
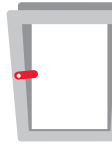
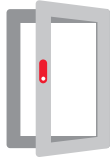
The windows and balcony doors are operated using a handle.

The following symbols illustrate the different handle positions and the resultant sash positions of the windows and balcony doors.

8.1.1 Handle position with Tilt&Turn hardware

Handle position	Sash position	Meaning
		Sash in closed position.
		Sash in turned, open position.
		Sash in night ventilation position.
		Sash in tilted, open position.

8.1.2 Handle position with TiltFirst hardware

Handle position	Sash position	Meaning
		Sash in closed position.
		Sash in tilted, open position.
		Sash in turned, open position.

8.2 Fault assistance

Fault	Cause	Corrective action	To be carried out by
Handle is difficult to turn.	Frame components have not been greased.	Grease the frame components.	□
	Handle is damaged.	Replace the handle.	■
	Handle screwed into place too tightly.	Undo the screw fixing slightly.	■
	Sash components with slanting screws.	Screw the sash components in straight.	■
	Sash components are damaged.	Replace the sash components.	■
	Incorrect striker positions.	Adapt the striker positions.	■
	Sash stay gasket compression is too strong (accumulation of gaskets).	Adjust the sash stay gasket compression or clean the gasket.	■
Handle cannot be turned 180°.	Sash components hinged or installed incorrectly.	Check the setting in the turn position (potentially rehang – start from the T&T espagnolette).	■
Sash falls into the tilt position when in the turn position.	Excessive clearance at the top.	Check the fit of the corner hinge.	■
		Check the fit of the pivot rest.	■
		Adjust the corner hinge so that it is positioned higher (pay attention to the tilt striker).	■
Sash falls into the turn position when in the tilt position.	Tilt striker damaged.	Replace the tilt striker.	■
Sash scrapes in the tilt position.	Insufficient clearance at the top.	Lower the corner hinge (pay attention to the tilt striker).	■
Locking cam is rubbing against the striker.	Sash mounted incorrectly.	Rehang the sash.	■
	Incorrect striker position.	Adapt the striker position.	■

□ = May be carried out by a specialist company or the end user

■ = **Must** be carried out by a specialist company



9 Maintenance



CAUTION

Performing maintenance work incorrectly can lead to injuries.

Performing maintenance incorrectly can lead to injuries.

- ▶ Ensure that there is sufficient space for installation before starting work.
- ▶ Ensure that the installation site is clean and tidy.
- ▶ Always have hardware adjustment and replacement work performed by a specialist company.
- ▶ Secure the sash against unintentionally opening or closing.
- ▶ Do not unhinge the sash for maintenance.



ATTENTION

Incorrect or improper testing may cause property damage.

Incorrect or improper testing of the hardware may cause the element to malfunction.

- ▶ Have the hardware checked by a specialist company when installed.
- ▶ If defects need to be remedied, have the element unhinged and remounted by a specialist company.



INFO

The manufacturer must draw the attention of builders and end consumers to these maintenance instructions.

Roto Frank Fenster- und Türtechnologie GmbH recommends the manufacturer conclude a maintenance agreement with their end users.

No legal claims can be derived from the following recommendations; their application is to be based on the specific individual case.

	Responsibility	
Maintenance interval	☐	→ from page 217
Cleaning		→ from page 218
Clean hardware	☐	
Care		→ from page 218
Lubricate movable parts	☐	
Lubricate locking points	☐	
Performance test		→ from page 220
Check that hardware components are fitted securely	☐	
Inspect hardware components for wear	☐	
Check that movable parts work properly	☐	
Check that locking points work properly	☐	
Check ease of movement	■	
Repair		→ from page 220
Retighten screws	■	
Replace damaged components	■	

☐ = May be carried out by a specialist company or the end user

■ = **Must** be carried out by a specialist company

9.1 Maintenance intervals



ATTENTION

Failure to adhere to maintenance intervals may cause property damage.

The maintenance interval for all tasks relating to the hardware components is **annually** at the least. In hospitals, schools and hotels, the maintenance interval is **six-monthly**.

Regular maintenance is necessary in order to maintain the proper and smooth-running operation of the hardware and to prevent premature wear or even defects.

- ▶ Determine and adhere to the appropriate maintenance interval in accordance with the ambient conditions.

9.2 Cleaning



ATTENTION

Using incorrect cleaning agents and sealing compounds may cause property damage.

Cleaning agents and sealing compounds may damage the surfaces of components and gaskets.

- ▶ Do not use aggressive or flammable liquids, acidic cleaners or abrasive cleaners.
- ▶ Only use mild, pH-neutral cleaning agents that have been diluted.
- ▶ Apply a thin protective film to the components, for example using a cloth soaked in oil.
- ▶ Avoid aggressive vapours (e.g. produced by formic acid, acetic acid, ammonia, amine compounds, ammonia compounds, aldehyde, carboic acid, chlorine, tannic acid) around the element.
- ▶ Do not use any acetic acid-crosslinking or acid-crosslinking sealing compounds or those with the aforementioned constituents as both direct contact with the sealing compound and its fumes can corrode the surface of the components.

Cleaning the hardware

- ▶ Clean deposits and contaminants off the hardware using a soft cloth.
- ▶ Lubricate movable parts and locking points after cleaning. → 9.3 "Care" from page 218
- ▶ Apply a thin protective film to the hardware, for example using a cloth soaked in oil.

9.3 Care



ATTENTION

Using incorrect lubricants may cause property damage.

Substandard lubricants can prevent the hardware from working properly.

- ▶ Use high-quality lubricants.
- ▶ Only use resin-free and acid-free lubricants.
- ▶ Use appropriate lubricant in more challenging climatic conditions. Note the manufacturer specifications.



ATTENTION

Cleaning agents and lubricants may pollute the environment.

Leaking or excess cleaning agents and lubricants may pollute the environment.

- ▶ Remove any leaking or excess cleaning agents and lubricants.
- ▶ Dispose of cleaning agents and lubricants separately and properly.
- ▶ Observe the applicable directives and national laws.

Ease of movement can be improved by lubricating or adjusting the hardware. All functional hardware components must be lubricated on a regular basis.

Recommended lubricants

- Roto NX / NT grease

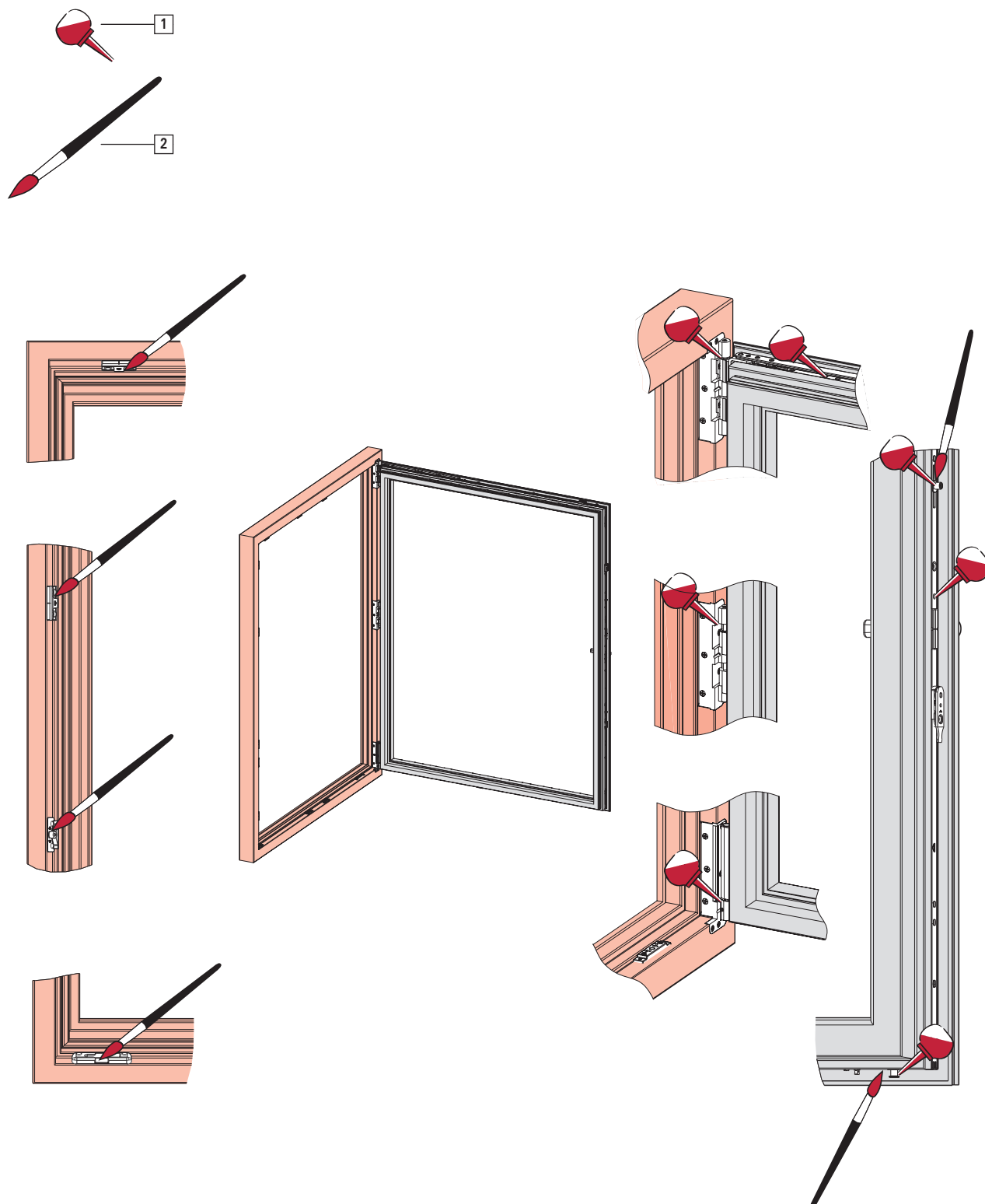


INFO

The figure displays the positioning of potential lubrication points. The figure does not necessarily match the installed hardware. The quantity of lubrication points varies depending on the size and design of the element.



9.3.1 Lubrication points



- [1] Oil
- [2] Grease

9.4 Performance test



WARNING

Improper repair work may pose a risk of death!

Improper maintenance may prevent the element from working properly and make it less safe to use.

- ▶ Always have repairs performed by a specialist company.

Check for proper operation:

- ▶ Inspect hardware components for damage, deformation and a firm fit.
- ▶ Check that windows or balcony doors run smoothly by opening and closing them.
- ▶ Check the window or balcony door gaskets for elasticity and fit.
- ▶ Check closed windows or balcony doors to ensure that they are leakproof.
- ▶ Locking and unlocking torque max. 10 Nm. The test can be performed using a torque wrench.

Have malfunctions remedied by a specialist company.

9.5 Repair



WARNING

Improper repair work may pose a risk of death!

Improper maintenance may prevent the element from working properly and make it less safe to use.

- ▶ Always have repairs performed by a specialist company.



ATTENTION

Improper screw fixings may cause property damage.

Loose or faulty screws can prevent the hardware from working properly.

- ▶ Check that the individual screws are secure and seated correctly.
- ▶ Tighten or replace loose or faulty screws.
- ▶ Use only the suggested screws.

Repair work includes replacing and repairing components and is only necessary if components have become damaged after wear or as a result of external circumstances. The hardware must be secured reliably in order to ensure that the element works properly and is safe to use.

The following tasks must only be performed by a specialist company:

- All adjustment work on the hardware,
- Replacing hardware or hardware components,
- Installing and removing windows, doors or balcony doors

The specialist company must observe the following:

- Perform the necessary repair work properly, according to generally recognised engineering practice and in accordance with the applicable regulations.
- Do not perform makeshift repairs on worn or damaged components.
- Only use original or approved spare parts for repairs.



10 Dismantling



WARNING

Improper dismantling may pose a risk of death!

The sash may fall during dismantling.

- ▶ Secure the sash to prevent it from falling, e.g. by using two people.
- ▶ Always have dismantling work performed by a specialist company.



CAUTION

Physical strain may cause injury and damage to health.

Carrying and lifting heavy loads for extended periods leads to physical injury in the long term.

- ▶ When carrying or lifting loads, maintain an ergonomically correct posture. The maximum permissible load is 25 kg for men and 10 kg for women.



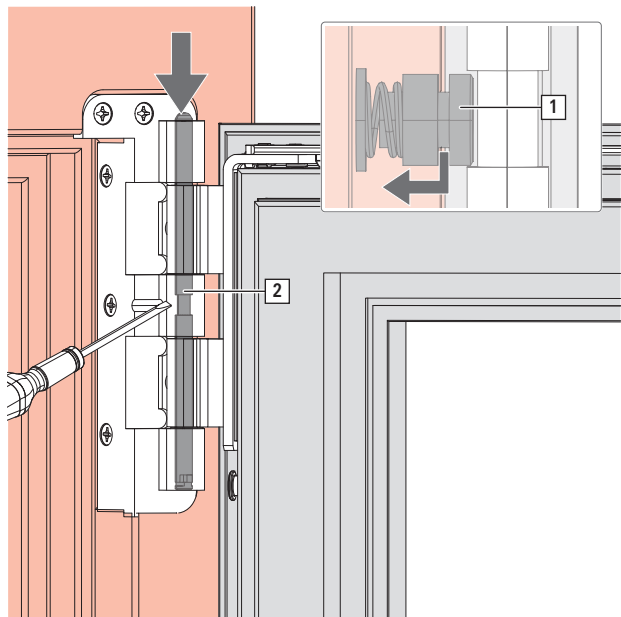
INFO

Unless otherwise stated, dismantling is performed in reverse order to installation.

10.1 Unhinging the sash

Stay-bearing pin – stay bearing and central bearing

1. Open the sash.
2. Undo the safety pin [1] using a small screwdriver.
At the same time, push in the stay-bearing pin that is protruding at the top [2].



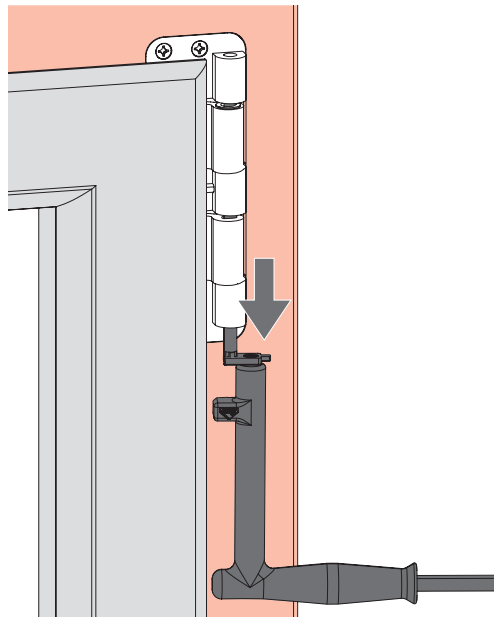
3. Close the sash.

4. Pull out the stay-bearing pin using an extractor handle.



INFO

Secure the sash to prevent it from falling.



5. Lift and unhinge the sash.

10.2 Hardware components

Removing hardware components

1. Undo all screw connections.
2. Remove the hardware components.
3. Dispose of the hardware components properly.



11 Transport

11.1 Transporting elements and hardware



DANGER

Improper transport poses a risk of death!

Improper procedures for transporting, loading or unloading elements may cause serious injuries and glass breakage as a result of the elements swinging open, falling or becoming overloaded.

- ▶ Note the applicable accident prevention regulations.
- ▶ Note force application points and reaction forces.
- ▶ Prevent the sash from opening uncontrollably.
- ▶ Avoid jerky movements.
- ▶ Use suitable transportation means and protective devices.
- ▶ Watch out for protruding components.
- ▶ Transport heavy loads with two people and use suitable transportation means (such as an industrial truck).



CAUTION

Trapped limbs may result in injuries.

The transported goods can skid, open, close or fall during transportation tasks. This can result in limbs being trapped and seriously injured.

- ▶ Never reach near the scissor stays.
- ▶ Close the sash after installation and secure it in place for transport.
- ▶ Wear safety gloves and protective footwear.



CAUTION

Physical strain may cause injury and damage to health.

Carrying and lifting heavy loads for extended periods leads to physical injury in the long term.

- ▶ When carrying or lifting loads, maintain an ergonomically correct posture. The maximum permissible load is 25 kg for men and 10 kg for women.

Hardware is supplied to the specialist company as complete sets. The components are packaged accordingly for each scope of delivery. The instructions for safely transporting the hardware are described below.

Observe the following basic instructions when transporting hardware:

- ▶ Transport larger scopes of delivery using appropriate transportation means (such as industrial trucks).
- ▶ Note the transport weight in order to select appropriate transportation means.
- ▶ Ensure that the transport process is careful and appropriate for the material and that components are protected against dirt during transport.
- ▶ Immediately check the delivery for completeness and transport damage on receipt.



INFO

Submit a complaint about any defects as soon as they are identified. Claims for damages may only be made within the reclamation period.

Use the following transportation means for support when transporting, loading and unloading larger scopes of delivery:

- Industrial trucks, e.g. forklifts, telescopic handlers, pallet trucks
- Lifting equipment, e.g. transport nets, carry straps, round slings
- Protective devices, e.g. edge protection, spacer blocks



INFO

Industrial trucks and lifting devices may only be operated by qualified persons.



INFO

Lifting equipment and protective devices may only be used if they are in full working order.

11.2 Storing the hardware

Store all hardware components as follows until they are installed:

- Dry and protected
- On a level surface
- Protected against sunlight



12 Disposal



ATTENTION

Incorrect disposal may pollute the environment.

Pieces of hardware are raw materials.

- ▶ Dispose of hardware for environmentally friendly material reutilisation as mixed scrap.

12.1 Disposing of packaging

The hardware is supplied as complete sets together with the packaging. Once unpacked, the installation company or builder is responsible for disposing of the packaging properly. The packaging materials are produced in accordance with current environmental protection standards. The materials can be recycled separately.

Follow the basic instructions below for the proper disposal of packaging:

- ▶ Do not dispose of packaging in household waste.
- ▶ Hand over packaging at local waste collection points or recycling centres.
- ▶ Observe the national regulations on the disposal of recyclable materials.
- ▶ Contact the local authorities if necessary.

12.2 Disposing of hardware

Once the hardware is finished with, the end user or builder is responsible for properly disposing of the windows, doors or balcony doors and the hardware, including any accessories. Hardware is produced in accordance with current environmental protection standards. The materials can be recycled separately.

Follow the basic instructions below for the proper disposal of hardware:

- ▶ Observe the information and specifications for disposal contained in the other applicable documents.
- ▶ Separate hardware components from windows, doors or balcony doors.
- ▶ Do not dispose of hardware in household waste.
- ▶ Hand over hardware at local waste collection points or recycling centres.
- ▶ Observe the national regulations on the disposal of recyclable materials.
- ▶ Contact the local authorities if necessary.



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From a single source: Optimum hardware systems to meet all challenges

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