



Roto NX

The universal hardware system for modern windows
and balcony doors

german made

What does that mean?



The company Roto with headquarters in Leinfelden-Echterdingen near Stuttgart is a German group of companies. Roto has grown robustly – organically and consistently.

Our common values represent an identity that has enabled Roto, as a German company, to become a service leader. The value structure of our company is based on three pillars:

- Continuity, consistency and reliability
- Experience, ambition to succeed and vision
- Knowledge, ability and German engineering skills

As a technological pioneer, Roto develops intelligent product solutions that feature impressively precise technology and long service life.

Production and environmental management as well as logistics, irrespective of the manufacturing country, are based on German values such as reliability, thoroughness and vision.

German precision in design and development as well as quality and process management guarantee that we can provide outstanding performance and high-quality services – worldwide.

The consistent implementation of German values in quality specifications and standards ensures that our partners and customers can place their trust in us. This is “german made”.

Company



The company Roto, based in Leinfelden-Echterdingen near Stuttgart, is a German group of companies that is wholly owned by families descended from the company's founder, Wilhelm Frank.

The group comprises three independent divisions which develop and produce hardware systems, roof windows and stairs for the construction industry and offer sophisticated services relating to windows and doors.

The Roto name has represented an inventive spirit and technological progress in compatible components for the construction industry since 1935.

The Roto Group is active all over the world with an extensive business portfolio and around 5000 employees.

Roto works on the basis of clear management and conduct principles to secure the position of the group as a success story and to ensure continued success.

Roto is inspired by the needs and expectations of customers, whether you are a builder, planner, architect, manufacturer or retailer of windows and doors, or manufacturer or specialist retailer for roofing.

Roto | Window and Door Technology

Worldwide



Europe



Roto Frank Austria GmbH

Kalsdorf (AT)



Roto Frank Belarus

Minsk (BY)



Roto Frank S.A.

Zaventem (BE)



Roto Frank GmbH

Dietikon (CH)



Roto Frank Fenster- und Türtechnologie GmbH

Leinfelden / Velbert (DE)



Roto Frank Estonia

Tallinn (EE)



Roto Frank S.A.

Lliçà de Vall (ES)



Roto Frank Ferrures S.A.S.

Saint-Avold (FR)



Roto Elzett Certa Kft.

Lövő / Sopron (HU)



Roto Frank Italia

San Donà di Piave (IT)



Roto Frank Lithuania

Vilnius (LT)



Roto Frank Latvijā

Jūrmala (LV)





Roto Frank
Warsaw (PL)



Roto Romania S.R.L.
Bucharest (RO)



OOO Roto Frank
Noginsk (RU)



Roto Frank Ltd. Sti.
Istanbul (TR)



**Roto Frank Okucia Budowl-
ane Sp. z o.o.**
Kiev (UA)



Asia



**Roto Frank Building Materi-
als Co. Ltd.**
Beijing (CN)



Roto Frank Indonesia
Jakarta (ID)



**Roto Frank Asia – Pacific Li-
aison Office India**
Mumbai (IN)



**Roto Frank Asia-Pacific Pte.
Ltd.**
Singapore (SG)



**Roto Frank Asia-Pacific Pte.
Ltd.**
Hanoi (VN)



America



Roto Frank Latina SA
Buenos Aires (ARG)



Roto Frank Brasil Ltd.
São José (BR)



Fermax Componentes Ltd.
Colombo (BR)



Roto Fasco Canada Inc.
Mississauga, Ontario (CA)



Roto Frank Chile
Santiago (CL)



Roto Frank of America Inc.
Chester (US)



= Sales

= Production / sales

Information	10
Application diagrams	34
Hardware overviews	74
Espagnolettes	448
Corner drives	508
Sash stay	520
Centre locks	570
Corner hinges / pivot rests	586
Locking components	612
Scissor stays	628
Accessories	644
Jigs / tools	686





General

Product features	10
Opening types	12
Colours	13
Abbreviations	13
System – Timber	14
Copyright protection	14

Roto Sliding	29
Roto Door	30
Roto Equipment	31

Contact

See page	32
----------	----

Roto NX

Always the right decision	16
Quality at the highest level	17
Protection against burglary for windows	17
A universal locking system	18
Maximum surface protection	18

Storage conditions

See page	19
----------	----

Environment

See page	20
----------	----

Gütegemeinschaft Schlösser und Beschläge e.V.

See page	21
----------	----

Certifications

Institute for Window Technology (ift)	22
Quality management	23
International Technology Centre (ITC)	24

Roto Con Orders

See page	25
----------	----

Roto media portal

See page	27
----------	----

Further Roto products

Roto Window	28
-------------	----



1 Information

1.1 General



INFO

All dimensions stated in millimetres. Other values are specified.

The following markings are used in this document.

1.1.1 Product features

Symbol	Meaning
	Cropping range
	Protrusion
	Hardware axis
	Description
	Base
	Supporting pin
	Drill hole for supporting pin
	DIN left / right
	Backset
	Corner drive, integrated
	Rebate clearance
	Rebate depth
	Colour
	Colour code
	Sash rebate width

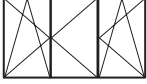


Symbol	Meaning
	Sash rebate height
	Sash weight
	Size
	Fixed handle height
	Centred / variable handle height
	Information
	Fixed toggle lever position
	Centred / variable toggle lever position
	Couplable
	Length
	Ventilator position
Nº	Material number
	Installation type
	Lifting mishandling device
	Groove
	Surface
	Item
	Number of welded-on strikers
	Number of locking cams
	Type of locking cams



Symbol	Meaning
	Bullet catch
	Security class
	Integrated night ventilation
	Blocking device
	System
	Adjustment

1.1.2 Opening types

Symbol	Meaning
	Turn-Only window
	Tilt-Only window
	Tilt&Turn window
	Tilt&Turn arched window
	Tilt&Turn pitched window
	Tilt&Turn triangular window
	Turn-Only / Turn-Only floating-mullion window
	Turn-Only / Tilt&Turn floating-mullion window
	Turn-Only / Tilt&Turn floating-mullion window with arch
	Triple-sashed windows



1.1.3 Colours

Colour code, Roto	Colour code, standard	Colour
R01.1	–	Natural silver
R01.2	–	Nickel silver
R01.3	–	Titanium
R01.4	–	Chrome
R01.5	–	Silver
R02.2	RAL 7016	Anthracite grey
R03.1	–	Brass matt
R03.2	–	Brass, polished
R03.3	–	Gold
R03.4	–	Stainless-steel design
R04.1	RAL 8019	Grey brown
R04.3	–	Olive brown
R04.4	RAL 8022	Black brown
R05.3	–	Medium bronze
R05.4	–	Dark bronze
R05.5	–	Bronze
R06.2M	RAL 9005, matt	Jet black, matt
R06.2	RAL 9005	Jet black
R06.4M	–	Black, matt
R07.1	RAL 9010	Pure white
R07.2	RAL 9016	Traffic white
R07.3	RAL 9001	Cream
SP. COL.	SP. COL.	Special colour
R00.0	Untreated	Uncoated

Colour examples



R01.1

R01.2

R01.3

R03.1

R04.1

R04.4

R05.3

R05.5

R06.2

R07.2



INFO

Colours may deviate in the illustration.

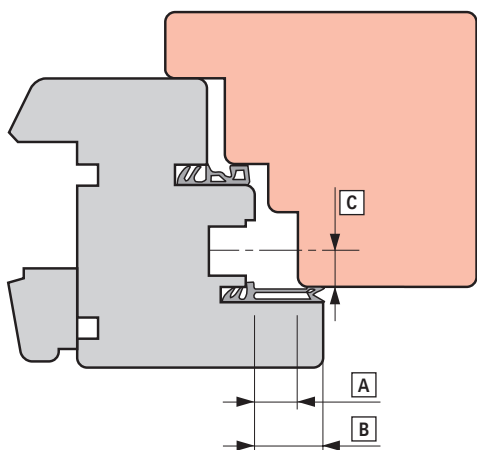
1.1.4 Abbreviations

Abbreviation	Meaning
HA	Hardware axis
T-O	Turn-Only sash
DIN L / R	DIN left / right
T&T	Tilt&Turn hardware
SRW	Sash rebate width
SRH	Sash rebate height
S.kg	Sash weight
BSec	Basic security
Y	Yes
kg	Kilograms
VT	Vertical tilting
KU	Couplable
Max.	Maximum
mm	Millimetres
CL	Centre lock
N	No
LMD	Lifting mishandling device
Not sh.	Not shown



Abbreviation	Meaning
RC	Resistance class
SEC	Security
TF	TiltFirst
etc.	et cetera
e.g.	For example

1.1.5 System – Timber



System	Clearance [A]	Overlap width [B]	Hardware axis [C]
12/18-9	12 mm	18 mm	9 mm
12/18-13			13 mm
12/20-9		20 mm	9 mm
12/20-13			13 mm
Euro rebate 18		–	9 mm
Euro rebate 20		–	9 mm
Euro rebate 24		–	13 mm
Euro rebate 30		–	13 mm
Euro groove 7/8		–	9 mm
Euro groove 11/8		–	13 mm

1.1.6 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.

1.2 Roto NX



One hardware system – limitless possibilities

Roto wouldn't be Roto if we didn't continuously improve. Roto has continuously developed the Tilt&Turn hardware across several product generations and, as a technological leader, has provided new impetus in the window and door market time and again for decades. We consistently focus on the needs of the market and our customers.

With Roto NX, we are now taking the next step and offering a new Tilt&Turn hardware system based on the proven Roto NT – with new features and functions that make the system a safe investment for the future. We retained what worked well and improved on many aspects. With Roto NX, we are presenting a future-proof hardware system that reflects the reliable market intuition and innovation of the global brand Roto and contributes to the success of our customers in the long term.

New performance, new possibilities

Smart Home, burglary protection, comfort requirements, sound insulation, energy efficiency – these are the topics that are preoccupying the sector. Sometimes this requires ambitious ideas, such as TiltSafe (burglary inhibition in the tilt position in accordance with RC 2) for PVC, timber and aluminium windows. But sometimes even small changes can have a big impact. As a result of innovative further developments to individual components and assemblies, we were able to decisively improve our Tilt&Turn hardware again and prepare it for new challenges. For instance, Roto NX now makes it possible to cater to the trend for modern windows with ever larger glass surfaces. The focus on the benefits is always on efficiency, security, comfort and design.

The safe choice – in every aspect

Roto NX provides tangible benefits: minimum production and installation effort, cost and time saving on storage and logistics, increased functional safety and therefore ultimately also less service work. In addition, not only window manufacturers enjoy economical benefits with Roto NX, but end consumers too thanks to optimised functionality and groundbreaking innovations, for example due to increased protection against burglary, improved design and higher room comfort and operating convenience. This means that Roto is the safe choice for everyone. And it also makes Roto NX the best Roto hardware system of all time – from the global market leader for all window manufacturers and installation companies, builders and property owners across the globe.



1.2.1 Always the right decision

The Roto NX Tilt&Turn hardware system is innovative in terms of its efficiency, security, comfort and design. The future-proof hardware for PVC, timber and aluminium windows offers tangible benefits for fabricators and end consumers.



Efficiency

Roto NX stands for a high level of efficiency. The system guarantees simple and fast assembly during production and installation and reduces the storage and logistics expenditure. This saves time and money. In addition, Roto NX ensures a high product quality and long-term functionality. This all makes Roto a reliable partner – now and in the future.



Comfort

Roto NX stands for increased comfort. The system impresses with a high level of operating convenience, simple handling and ideal functionality. Roto NX also improves the living comfort – for example by optimised ventilation properties for a balanced room climate or through incorporation into the home automation.



Security

Roto NX stands for a high level of security. The new TiltSafe components offer advanced burglary protection – now even in the tilt position (burglary inhibition in accordance with RC 2). Working with the hardware itself is also becoming safer and permits higher loads even in the standard version, for example. The product quality and the breadth and depth of the range additionally ensure maximum reliability and decision making certainty.



Design

Roto NX stands for contemporary design and ensures an attractive appearance from all angles, for example due to elegant cover caps, sophisticated powder coatings and concealed screws on the surface-mounted hinge sides. In addition, the system allows a modern room design with large glass surfaces thanks to its high loads.





1.2.4 A universal locking system



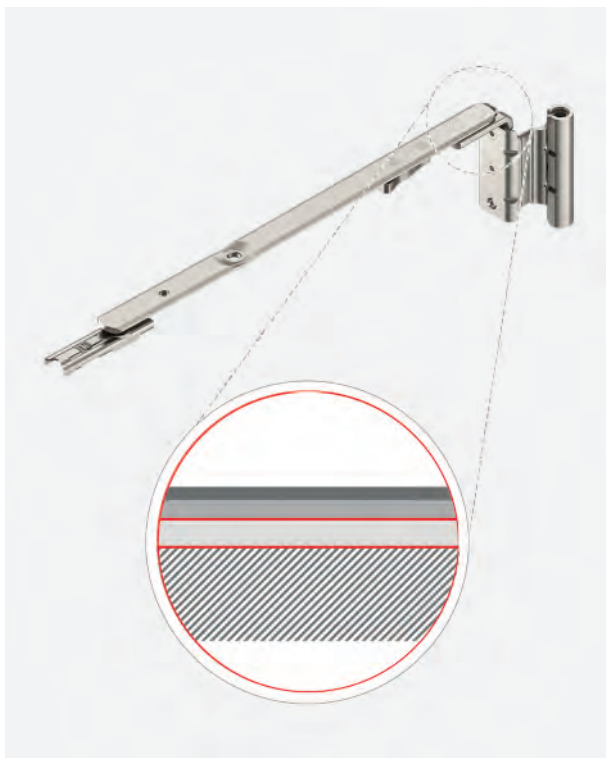
The Roto NX locking concept

All strikers in the Roto NX hardware system have identical screw axes. This concept enables the sash to be prefitted with security locking cams and subsequently retrofitted in the frame with security strikers (zinc or steel). All locking cam versions can be combined with all strikers.

Roto NX offers three different locking cam versions, which differ in their use and their adjustment possibilities.

- **E locking cam** gasket-compression adjustable cam
- **P locking cam** gasket-compression adjustable security mushroom cam
- **V locking cam** height and gasket-compression adjustable security mushroom cam

1.2.5 Maximum surface protection



Surface structure of a connection element

- Optical seal
- Chromium VI-free passivation
- Zinc layer
- Base material: steel

Roto Sil

Roto Sil provides optimum surface protection for all components from the Roto NX modular hardware system. This innovative technology has made it possible to create a surface which boasts outstanding corrosion resistance.

- Matt silver look for a sophisticated appearance
- Extremely durable and scratch-resistant
- Whole coating system is free from chromium VI compounds
- Non-toxic to the environment

Roto Sil Level 6

Roto Sil Level 6 is based on an innovative coating technology with microcrystalline structure. 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.

This means that the entire Tilt&Turn hardware system exceeds the requirements of the highest corrosion protection class (class 5).

Roto Sil Level 6 boasts exceptional corrosion resistance. Paired with the surface's excellent mechanical resistance, Roto Sil Level 6 is setting new standards for hardware technology: for the first time, delicate parts such as rivets or sliding elements can be protected against corrosion and abrasion in the long term.

1.3 Storage conditions



Protecting components against dirt and dust

Always keep the containers closed, and always cover open hardware containers or goods stored open (i.e. with a layer of cardboard).

Protecting components against mechanical damage

Only transport and handle the containers using suitable means of transport or conveyance (forklifts, lifting devices and roller belts, etc.). Only stack pallets and cardboard boxes (during transport) to the maximum height specified in the printed instructions on the packaging.

Protecting components against direct moisture and wet

The packaging must remain dry and the components must not get wet. This applies to storage and transport, as well as for unloading and loading procedures. Where appropriate, plastic protective sheets or similar are to be used during outdoor transport (i.e. on-site transport) when raining.

Only store components in suitable closed rooms and not outdoors. Condensation must absolutely be avoided during the entire duration of transport and storage.

If containers nevertheless get wet...

Immediately unpack the components from the wet containers, dry the components and check for damage (signs of corrosion). In any case, repack the usable components when dry with new packaging material

1.4 Environment



Environmental compatibility of the hardware components

Our objective is to succeed in manufacturing our hardware components with the lowest possible consumption of energy and operating resources, and we strive to produce extremely durable hardware components. To achieve this, we conserve natural resources, minimise energy consumption and use raw materials in an environmentally friendly manner.

Environmental impact resulting from the hardware

The surface quality of our treated surfaces is abrasion-resistant. No environmental pollution is caused by hardware components when the stipulated use is complied with.

Environmental compatibility of the packaging

We use recyclable disposable packaging made of reinforced cardboard, steel strapping, PVC packaging tape, PE sheeting, timber frames, single-use wooden pallets, cable ties, elastomer cord as well as reusable packaging, reusable boxes from Schäfer, pallet crates and EURO wooden pallets.

Environmental compatibility of disposal

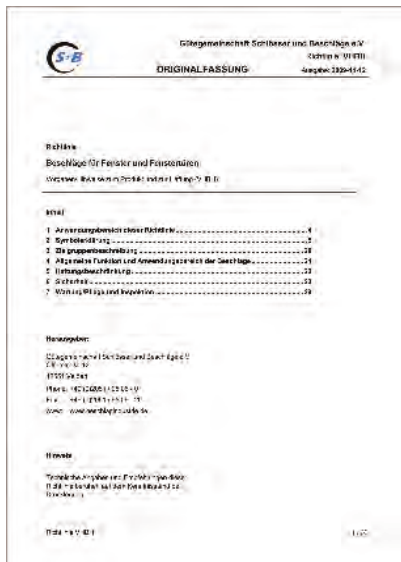
Our hardware is made of materials which enable environmentally friendly material utilisation and can be disposed of as mixed scrap.

Returning packaging material

Our packaging with the INTERSEROH logo is accepted free of charge by every INTERSEROH disposal partner. The directory of your local disposal partners can be requested nationwide from the telephone exchange of ISD INTERSEROH GmbH in Cologne using the following telephone number: +49 2203 9147-322. The Roto INTERSEROH number is 25582.

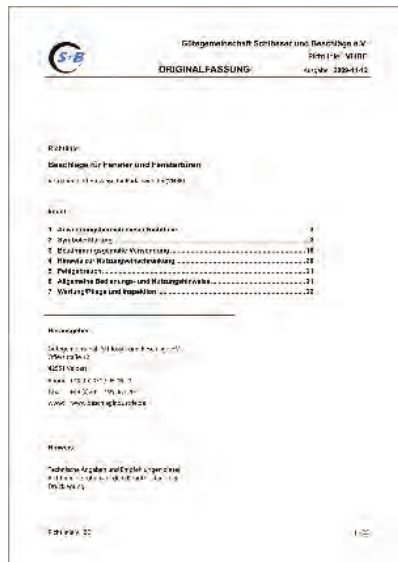
1.5 Gütegemeinschaft Schlösser und Beschläge e.V.

Everything you need to know about the correct use and maintenance of hardware for windows and balcony doors can be found in the current directives issued by Gütegemeinschaft Schlösser und Beschläge e.V.



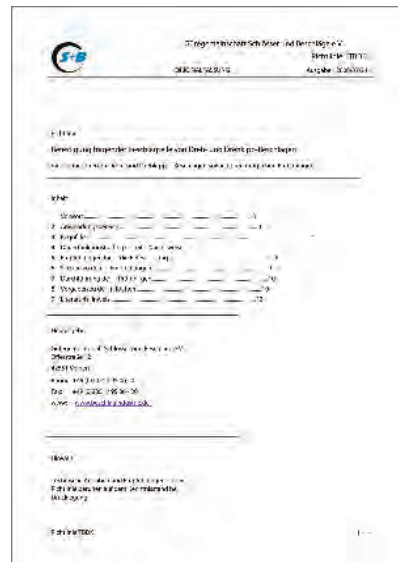
VHBH

Hardware for windows and balcony doors – Guidelines/advice on the product and on liability



VHBE

Hardware for windows and balcony doors – Guidelines/advice for end-users



TBDK

Attachment of supporting fitting components for turn-only and tilt&turn fittings with definitions for turn-only and tilt&turn fittings and their possible installation positions



1.6 Certifications

1.6.1 Institute for Window Technology (ift)

Hardware for windows and balcony doors – QM 328

Zertifikat / Certificate		ift ROSENHEIM	
Zertifikatsnr. / Certificate No.: 228-9004105-5-8			
Dreh- und Drehkippbeschläge für Fenster und Fenstertüren <i>Turn and tilt-turn hardware for windows and casement doors</i>			
Produkt <i>product</i> max. Flügelgewicht <i>max. sash weight</i> Einsatzbereich <i>field of application</i> Hersteller <i>manufacturer</i> Produktionsstandort <i>production site</i>	Roto NX 300 kg Systeme mit entsprechender Beschlagsaufnahme <i>Systems with suitable hardware grooves</i> Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1, DE 70771 Leinfelden-Echterdingen Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1, D-70771 Leinfelden-Echterdingen Roto Frank Austria GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Roto Elzett Certe Kft. Kossuth Lajos u. 25, H-9481 Lővő	Grundlage(n) / ift-Zertifizierungsprogramm für Beschläge ift-Zertifizierung QM328 2018 01 EN 1191 EN 12400 Klasse 3 Dauerfunktion EN ISO 9227 EN 1670 Klasse 5 Korrosionsschutz	
Mit diesem Zertifikat wird bescheinigt, dass das benannte Bauprodukt den Anforderungen des zugrundeliegenden ift-Zertifizierungsprogramms in der aktuellen Fassung entspricht. This certificate attests that the building product mentioned fulfils the requirements of the underlying ift-certification scheme in its current version. This certificate contains 2 annexes.		This certificate was first issued on 26.02.2018. The current version is valid until 05.03.2028, as long as neither the conditions laid down in the technical specification listed above nor the manufacturing conditions in the production site nor the factory production control itself are modified significantly. The reproduction of this certificate without any change from the original is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to ift-Zert accompanied by the necessary evidence. The company is authorized to affix the "ift-certified"-mark to the building product mentioned according to the ift-rules on the use of the "ift-certified"-mark.	
Dieses Zertifikat wurde erstmals am 26.02.2018 ausgestellt. Die aktuelle Version gilt bis zum 05.03.2028, wenn sich zwischenzeitlich die Festlegungen in der oben angeführten technischen Spezifikation oder die Herstellungsbedingungen im Werk oder in der werkseigenen Produktionskontrolle selbst nicht wesentlich verändert haben. Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind ift-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen. Das Unternehmen ist berechtigt das benannte Bauprodukt gemäß der ift-Zeichensatzung mit dem ift-zertifiziert-Zeichen zu kennzeichnen. Dieses Zertifikat enthält 2 Anlagen.		This certificate was first issued on 26.02.2018. The current version is valid until 05.03.2028, as long as neither the conditions laid down in the technical specification listed above nor the manufacturing conditions in the production site nor the factory production control itself are modified significantly. The reproduction of this certificate without any change from the original is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to ift-Zert accompanied by the necessary evidence. The company is authorized to affix the "ift-certified"-mark to the building product mentioned according to the ift-rules on the use of the "ift-certified"-mark.	
ift Rosenheim 23.01.2024 Gültig bis / <i>valid until</i> 05.03.2028		Christian Kehrer Leiter der ift-Zertifizierungs- und Überwachungsstelle <i>Head of ift Certification and Surveillance</i> PZ Vertragsnr. / EN 17065 228 9004105	
ift Rosenheim GmbH Tübingen-Str. 7 B D-8400 Rosenheim		DAK&S Rosenheim 84000 Rosenheim	

The sales employee responsible for your region can provide you with up-to-date certificates.

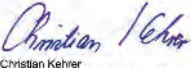


1.6.2 Quality management

The certification in accordance with the international standard DIN EN ISO 9001 certifies that Roto plans, documents and appropriately implements the entire development, production and sales process systematically. Starting with development and design through to quality planning, production and assembly right through to sales and customer service.

The certification is an external indication of the quality awareness practised at Roto:

- Roto's objective is to ensure continuous product and service improvements for the benefit of its customers.
- Roto offers its customers innovative, environmentally friendly and technically sophisticated architectural hardware technology.
- Roto products are supplied punctually worldwide with constant guaranteed quality.
- Roto's comprehensive view regards all business activities – including all the activities within the company – to be the key to achieving long-term corporate success.
- Roto employees are supported in their personal development and fulfil Roto's high quality requirements in their day-to-day work. Their work is performance and goal-oriented.

Certificate		ift ROSENHEIM
Certificate-No.: 791-9004105-1-3		
Subject: Quality Management System DIN EN ISO 9001:2015	Basic: ISO 9001	
Company (Headquarters): Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1 DE - 70771 Leinfelden-Echterdingen		
Scope of the management: Development, design, production and sales of window and door technology	Validity The certificate is valid for three years. During this time the company is surveyed annually. The certificate is only valid in combination with the accompanying certification and surveillance contract. If Q-Zert shall be informed immediately in writing of all changes to the qualifications for certification and supplied with copies of all resulting new management documents.	
Further sites: see appendix to the certificate	Notes on Publication The certificate shall only be reproduced unchanged. Regulations for the use of reports are given in the „Allgemeine Bedingungen für die Zertifizierung von Managementsystemen“. The company is entitled to use the "ift-certified" mark in accordance with the ift "Zeichensetzung" (Rules on the use of the ift-mark).	
Scope of the rules: This Certificate has been issued on the basis of the rules for sites certification. The higher ranking company (headquarters) is responsible for the maintenance and further development of the management system as well as the control of central tasks.	Rules for sites certification During the certification-audit it was demonstrated that the company and all sites listed in this certificate have established and are applying a quality management system in accordance with DIN EN ISO 9001:2015 "Quality Management Systems-Requirements".	
 Christian Kehrer Head of Certification and Surveillance Body		
ift Rosenheim 18.05.2024	Identity Check 	
Initial certification: 18.05.2021 Contract No.: 791 9004105 Valid until: 17.05.2027	www.ift-rosenheim.de/ ift-zertifiziert ID: 265-80042	
ift Rosenheim branch: Theodor-Heuss-Platz 2, D-83029 Rosenheim	Contact: Phone: +49 (0) 89 3161-0 Fax: +49 (0) 89 3161-255 info@ift-rosenheim.de www.ift-rosenheim.de	Accredited Certification Body for Management Systems: DIN EN ISO 9001:2015
 		

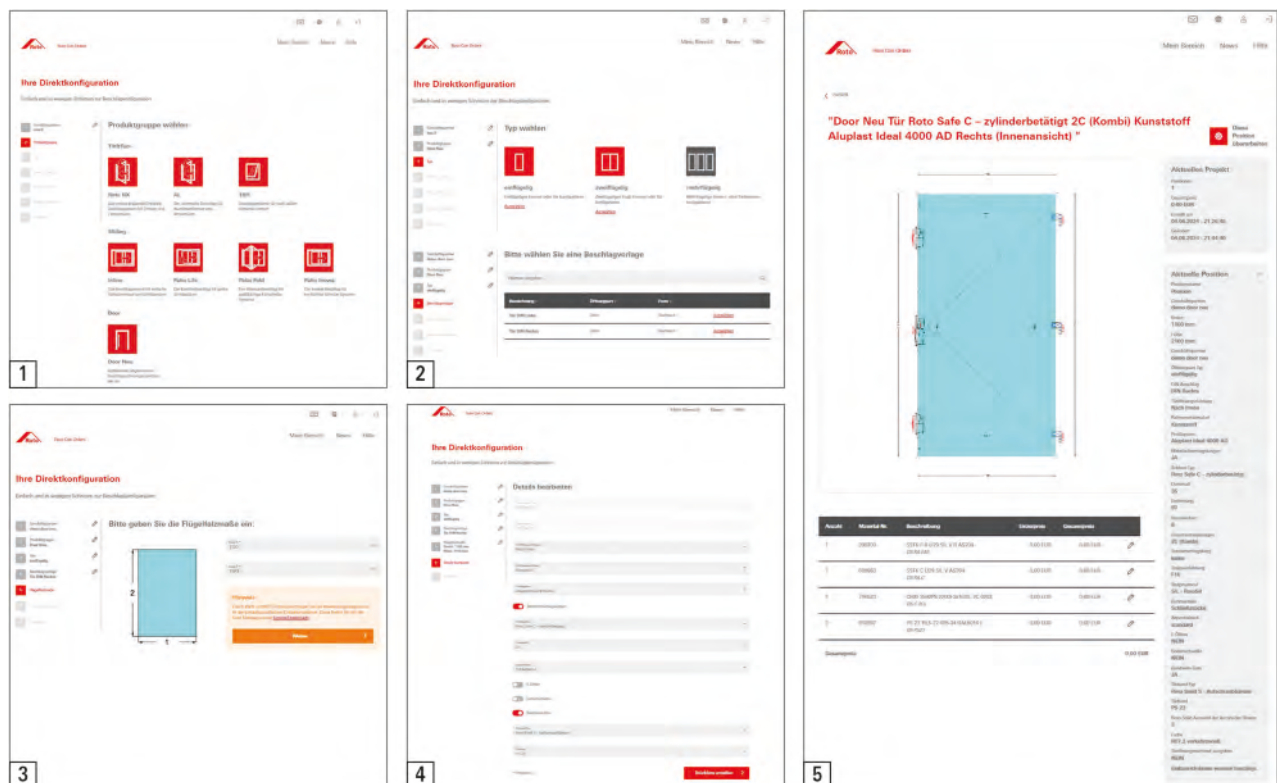
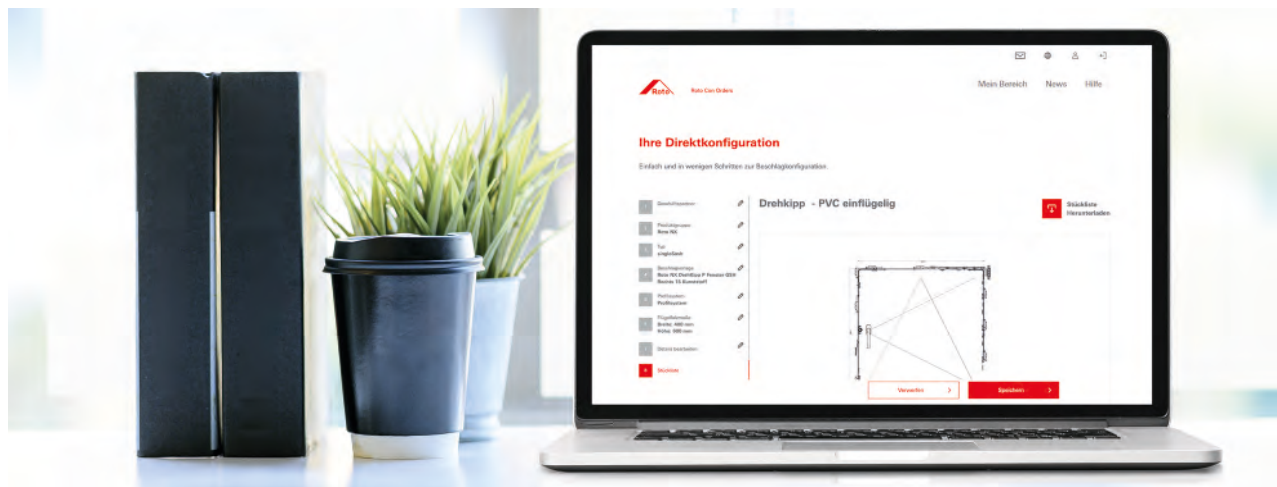
1.6.3 International Technology Centre (ITC)

Roto has owned a modern International Technology Centre (ITC) at its Leinfelden headquarters since October 1996. This facility is available for both our own material and product testing as well as for inspecting finished products made by Roto market partners.



The ITC is accredited in accordance with DIN EN ISO / IEC 17025 and has the expertise required to perform tests in areas including mechanical technological testing of facade elements such as windows, doors and hardware, as well as metallic materials.

Achieving accreditation in accordance with DIN EN ISO / IEC 17025 represents the highest distinction for a test institute in the private sector. The requirements for this are an extensive quality management system, trained personnel, high-quality test rigs and measuring instruments, as well as continuous external monitoring by the accreditation authorities.





5. **Result:** output of a detailed data sheet with a technical illustration and a complete parts list with editable order numbers, descriptions and individual and total prices.

Intelligent additional functions simplify your processes



Roto Con Orders makes it easy for you to simplify and accelerate your processes. A large number of useful functions are available to help you do this:

- Store your own company addresses and logos in the header of your offers
- Create and manage customer-specific projects
- Generate individual customer hardware templates
- Integrate a discount structure system
- Material master management
- Due to its responsive design, it can be used on all devices such as PCs, tablets, and smartphones

Get started straight away thanks to web-based solution

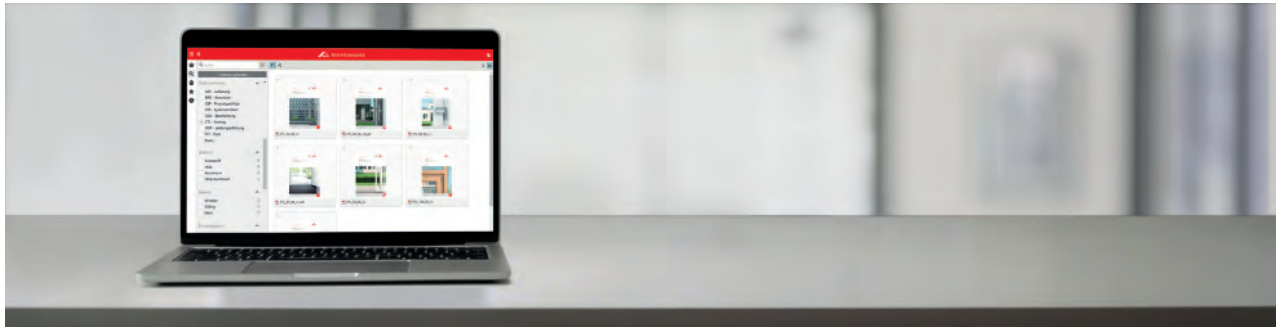
Roto Con Orders is a web-based solution that you can access around the world and around the clock. You only require a computer with a web browser and Internet access for this purpose. To work with the online hardware configurator, please register once with your e-mail address in the portal for dealers and manufacturers at:



www.roto-frank.com



1.8 Roto media portal



Simple and quick

The Roto media portal is where all media is available, such as catalogues, installation instructions, brochures and interactive installation videos. Access to this portal is optimised for PCs, laptops and mobile devices.

The clear user interface and the numerous search options ensure that all available media can be found simply and quickly. Content can be read directly in the Roto media portal or downloaded for later.

The Roto media portal can be accessed via the “Downloads” link in the “Service” main menu item on the Roto website or directly using the links below.



www.roto-frank.com

Media for Roto NX

This catalogue offers an overview of the Roto NX product range. All other media relating to Roto NX can be accessed via the Roto media portal. The links below provide direct access.



www.roto-frank.com | Roto NX



1.9 Further Roto products

1.9.1 Roto Window

Tilt&Turn – Tilt&Turn hardware systems for windows and balcony doors

Timber, PVC and aluminium for a 16 mm hardware groove



Roto NX | T

The universal hardware system for modern windows and balcony doors for timber profiles



Roto NX | P

The universal hardware system for modern windows and balcony doors for PVC profiles



Roto NX | A16

The universal hardware system for modern windows and balcony doors for aluminium profiles with a 16 mm hardware groove



Roto NX | Power Hinge

The universal hardware system for modern windows and balcony doors for timber profiles



Roto NX | C

The universal hardware system for modern windows and balcony doors for timber and PVC profiles



Roto NX | Designo A16

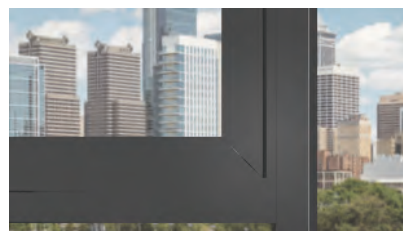
The universal hardware system for modern windows and balcony doors for aluminium profiles with a 16 mm hardware groove

Aluminium



Roto AL

Universal hardware for aluminium windows and balcony doors



Roto AL Designo

Concealed hardware for aesthetic aluminium windows and balcony doors



Outward Opening – Hardware systems for outward opening windows



Roto FS Kempton

Stainless-steel friction stays for outward opening windows



Roto PS Aintree

Parallel stainless-steel friction stays for outward opening windows



Roto FRH Uni

Fully reversible hinges for outward opening windows

1.9.2 Roto Sliding

Roto Patio – High-quality sliding windows and sliding doors



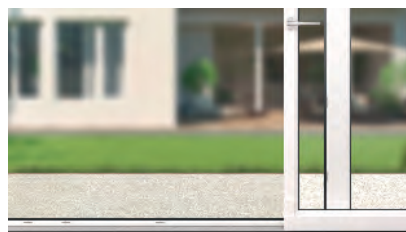
Roto Patio Fold

The robust hardware system for large Fold&Slide elements



Roto Patio Lift

The versatile hardware system for large Lift&Slide elements



Roto Patio Alversa

The universal hardware system for parallel Tilt&Slide elements



Roto Patio Inowa

The smart hardware system for tightly sealed parallel retraction sliding elements



Roto Patio Inline

The reliable hardware system for Parallel Sliding elements



1.9.3 Roto Door

Roto Safe – The modular multipoint locking system for doors



Roto Safe H

Mechanical multipoint lockings for lever-handle-operated doors



Roto Safe C

Mechanical multipoint lockings for cylinder-operated doors



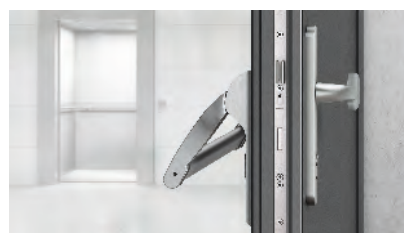
Roto Safe A

Mechanical-automatic multipoint lockings for doors



Roto Safe E

Electromechanical multipoint lockings for doors



Roto Safe P

Mechanical multipoint lockings for escape and panic doors

Roto Solid – Comprehensive range of door hinges



Roto Solid S

Screw-on hinges for doors



Roto Solid B

Butt hinges for doors



Roto Solid C

Concealed hinges for doors

Roto Eifel – Thresholds for doors and balcony doors



Roto Eifel

The varied range of thresholds for doors and balcony doors

1.9.4 Roto Equipment

Drive&Control – Electronic components for windows and doors



Roto E-Tec Drive

The concealed drive for windows



Roto E-Tec Control

Wired sensors for security technology and room climate



Roto Com-Tec Sensor

Wireless sensors integrated in hardware for home security

Handles – Handles for all opening types



Roto Swing

The modern handle line



Roto Line

The classic handle line



Roto Samba

The classic yet modern handle line



Roto Freestyle

Solutions for all opening types

Fix&Glazing – Installation and glazing solutions for windows and doors



Roto Glas-Tec

Customised solutions for safe glazing



1.10 Contact

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Germany

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www.roto-frank.com



General information

See page 34

Hinge side T

Turn-Only / Tilt&Turn hardware for rectangular windows 36

Tilt&Turn hardware for pitched windows 38

Tilt&Turn hardware for arched windows 46

Tilt-Only hardware for rectangular windows 47

Comfort windows (standard) 50

Hinge side C

Turn-Only / Tilt&Turn hardware for rectangular windows 51

Turn-Only hardware for centre sash in a triple-sashed window (standard) 58

Tilt-Only hardware for rectangular windows (standard) 59

Hinge side Designo (HA 13)

Turn-Only / Tilt&Turn hardware for rectangular windows 60

Tilt-Only hardware for rectangular windows 63

Hinge side Designo (HA 9)

Turn-Only / Tilt&Turn hardware for rectangular windows 64

Tilt-Only hardware for rectangular windows (standard) 67

Hinge side Royal

Turn-Only / Tilt&Turn hardware for rectangular windows (standard) 68

Tilt-Only hardware for rectangular windows (standard) 69

Hinge side Power Hinge

Tilt&Turn hardware for rectangular windows (standard) 70

Turn-Only hardware for rectangular windows (standard) 71

2 Application diagrams

2.1 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 applicable) 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 required.

When attaching security-relevant, load-bearing hardware components (hinge sides), the manufacturer of windows and balcony doors must prove the specified forces in accordance with the table below (excerpt from Directive TBDK issued by the Gütegemeinschaft Schlösser und Beschläge e. V. quality assurance association) by means of testing and ensure them on their product.

Sash weight	Tractive force in newtons (N) ^[1]
60 kg	1650 N
70 kg	1900 N
80 kg	2200 N
90 kg	2450 N
100 kg	2710 N
110 kg	3000 N
120 kg	3250 N
130 kg	3525 N
140 kg	3900 N
150 kg	4200 N
180 kg	5000 N



INFO

With S.kg > 150 kg, proof in accordance with DIN EN 1191 is required.



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

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.

[1] Permissible tolerance -10%



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.



2.2 Hinge side T

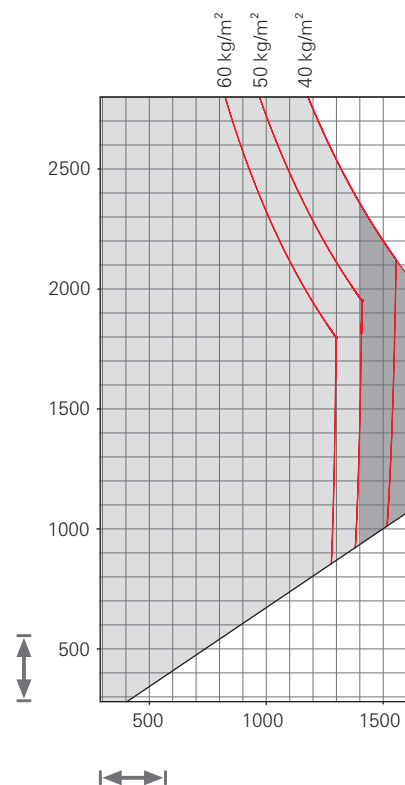
2.2.1 Turn-Only / Tilt&Turn hardware for rectangular windows

2.2.1.1 150 kg



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

■ = Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 4200 N
- on the pivot rest 4340 N

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

1 mm/m² glass thickness = 2.5 kg

Application range

		Basic security	Security		
			RC 1 N	RC 2 / RC 2 N	RC 3
	Sash rebate width	290 – 1600 mm	400 – 1600 mm	490 – 1400 mm	490 – 1400 mm
	Sash rebate height	280 – 2800 mm	280 – 2800 mm	490 – 2800 mm	600 – 2800 mm
	Sash weight	Max. 150 kg	Max. 150 kg	Max. 150 kg	Max. 150 kg



INFO

For pivot rests without supporting pin, the sash weight is max. 130 kg.



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

If the standard version does not achieve the specified values during the test, alternative total weights can be tested. The corresponding application diagrams can be found in BRO_371.



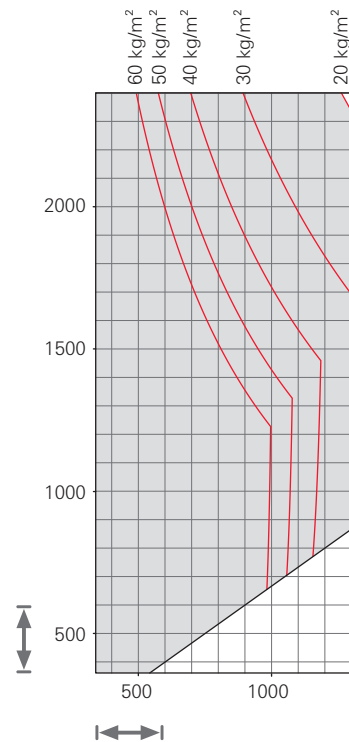
2.2.2 Tilt&Turn hardware for pitched windows

2.2.2.1 Pitched angle 1° to 15°



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:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.

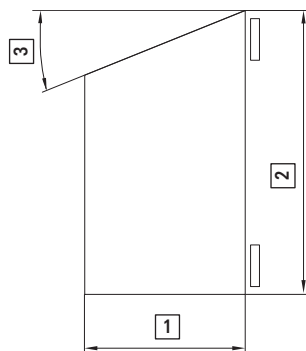


INFO

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

- on the stay bearing 2200 N
- on the pivot rest 2310 N

Description on the pitched window



[1] Sash rebate width

[2] Sash rebate height

[3] Pitched angle

Positive pitched angle (1° to 45°)

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
	Sash rebate width	340 – 1300 mm



Basic security		
	Sash rebate height	361 – 2400 mm
	Sash weight	Max. 80 kg



INFO

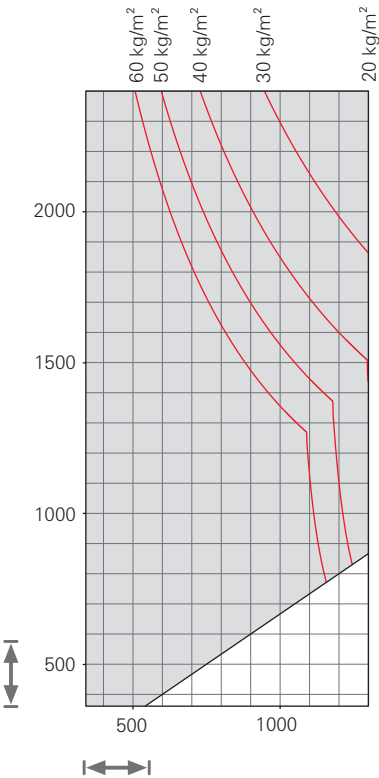
Observe directive TBDK for tractive force values as a function of the sash weights.
Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.2.2.2 Pitched angle 16° to 35°



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:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.

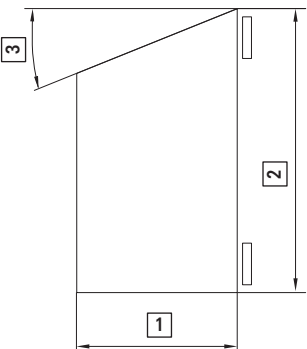


INFO

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

- on the stay bearing 2200 N
- on the pivot rest 2310 N

Description on the pitched window



- [1] Sash rebate width
- [2] Sash rebate height
- [3] Pitched angle

Positive pitched angle (1° to 45°)

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
	Sash rebate width	340 – 1300 mm
	Sash rebate height	361 – 2400 mm



Basic security		
	Sash weight	Max. 80 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

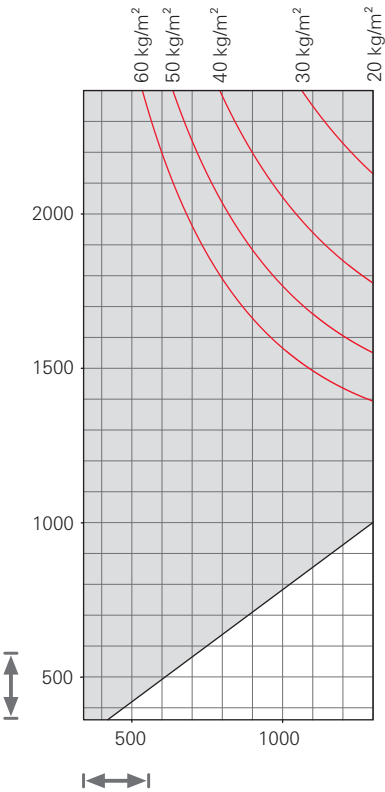


2.2.2.3 Pitched angle 36° to 45°



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:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.

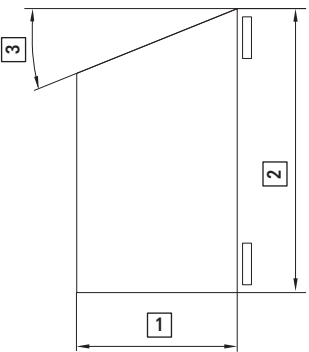


INFO

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

- on the stay bearing 2200 N
- on the pivot rest 2310 N

Description on the pitched window



- [1] Sash rebate width
- [2] Sash rebate height
- [3] Pitched angle

Positive pitched angle (1° to 45°)

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
	Sash rebate width	340 – 1300 mm
	Sash rebate height	361 – 2400 mm



Basic security		
	Sash weight	Max. 80 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

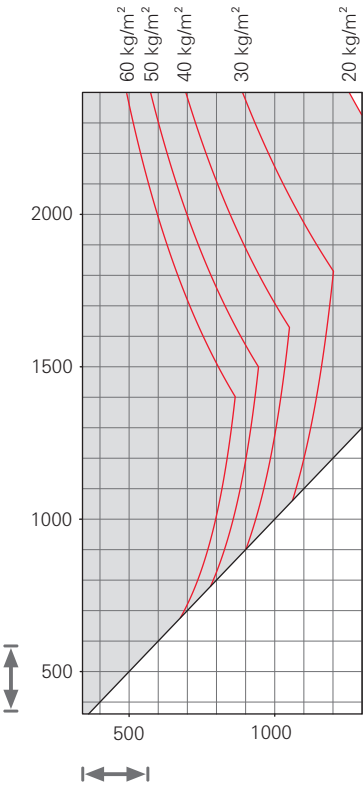


2.2.2.4 Pitched angle -15° to 0°



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:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.

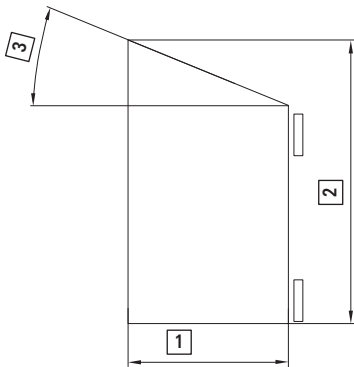


INFO

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

- on the stay bearing 2200 N
- on the pivot rest 2310 N

Description on the pitched window



- [1] Sash rebate width
- [2] Sash rebate height
- [3] Pitched angle

Negative pitched angle (-15° to 0°)

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
	Sash rebate width	340 – 1300 mm
	Sash rebate height	361 – 2400 mm



Basic security		
	Sash weight	Max. 80 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

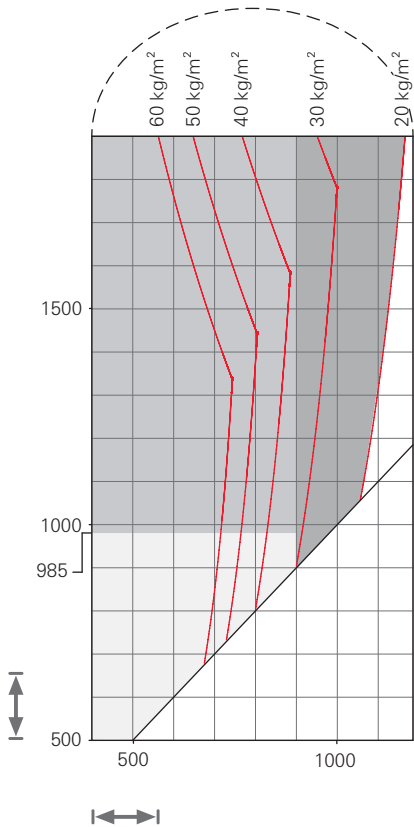


2.2.3 Tilt&Turn hardware for arched windows



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
- Without additional stay arm
- Additional stay arm possible
- Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Bearing distance (CB) = 45 mm

Lower deductible dimensions of glass, higher profile weights or larger bearing distances require a separate assessment.

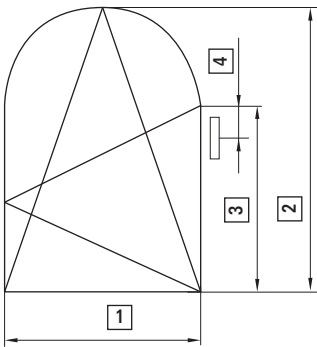


INFO

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

- on the stay bearing 2200 N
- on the pivot rest 2310 N

Description on the arch



- [1] Sash rebate width
- [2] Total sash rebate height
- [3] Sash rebate height at start of arch
- [4] Bearing distance (CB)

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

Basic security		
	Sash rebate width	400 – 1185 mm



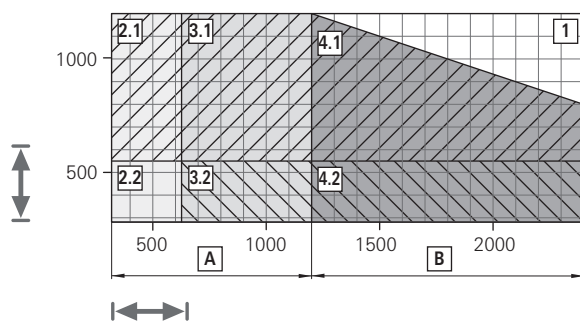
Basic security		
	Sash rebate height at start of arch	500 – 1900 mm
	Sash weight	Max. 80 kg

**INFO**

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.2.4 Tilt-Only hardware for rectangular windows



- [1] = Impermissible application range
- [2.1] = 2 tilt stays at the side, additional re-
strictor and cleaning stays
- [2.2] = 2 tilt stays at the side
- [3.1] = 1 tilt stay at the top or 2 tilt stays at
the side, additional restrictor and clean-
ing stays
- [3.2] = 1 tilt stay at the top or 2 tilt stays at
the side, additional restrictor and clean-
ing stays for tilt stay(s) at the top
- [4.1] = 2 tilt stays at the top or 2 tilt stays at
the side, additional restrictor and clean-
ing stays
- [4.2] = 2 tilt stays at the top or 2 tilt stays at
the side, additional restrictor and clean-
ing stays for tilt stay(s) at the top
- [A] = min. 2 hinges
- [B] = min. 3 hinges

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

Basic security		
	Sash rebate width	451 – 2400 mm
	Sash rebate height	290 – 1200 mm
	Sash weight	Max. 80 kg

**INFO**

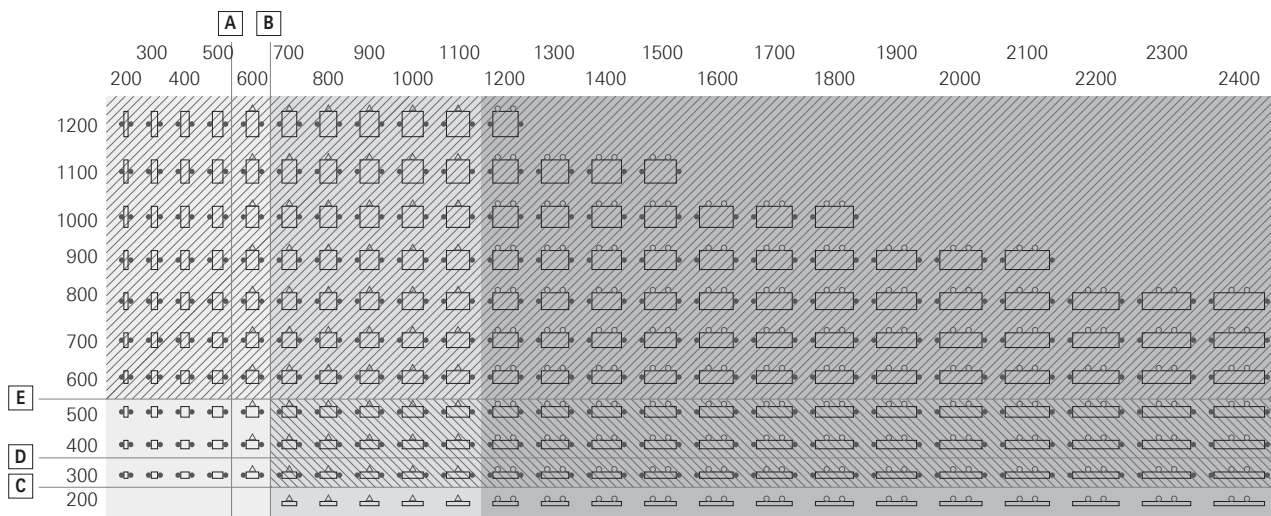
Restrictor and cleaning stays recommended; mandatory for fanlights (in accordance with RAL RG 607 / 12).

Restrictor and cleaning stays up to max. 60 kg.

Application diagrams

Hinge side T

Tilt-Only hardware for rectangular windows



[A] From 501 mm tilt stay at the top is only possible with Turn-Only / Tilt-Only espagnolette

[B] From 621 mm tilt stay at the top is possible with Turn-Only / Tilt-Only espagnolette and T&T espagnolette

[C] From **260 mm** P, T, A

[D] From **360 mm** P, T, A, Designo, Alu

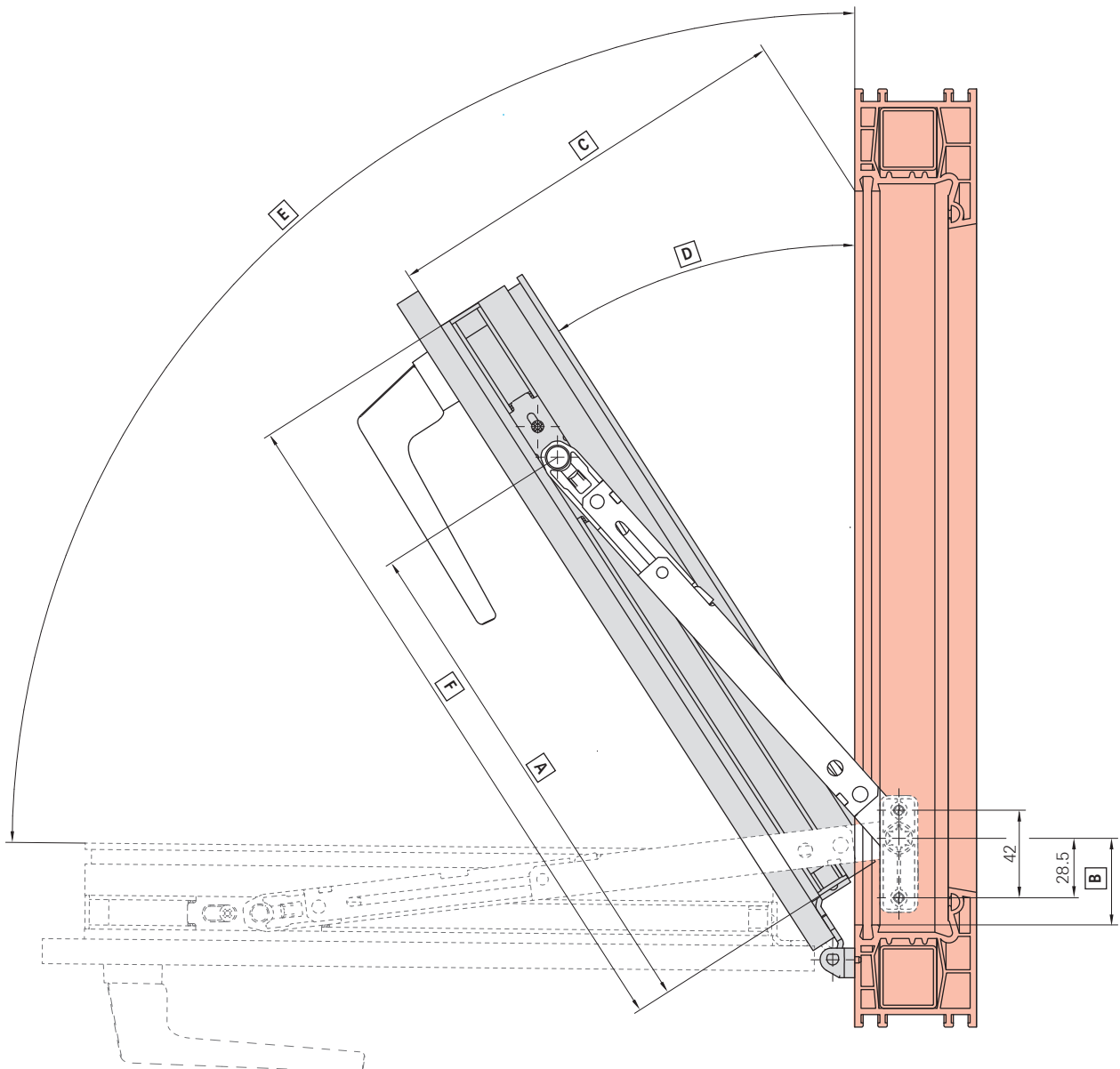
[E] From **520 mm** all hinge sides

- Possible position of tilt stay up to 80 kg
- Alternative position of tilt stay up to 80 kg
- △ Alternative position of tilt stay up to 60 kg



INFO

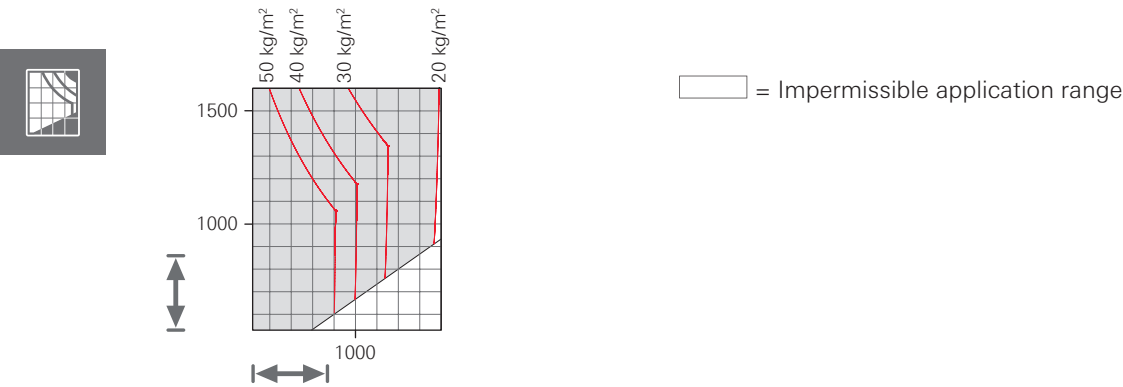
Tilt stays at the side cannot be used in conjunction with the CL 200 centre lock.



- [A] Position of sash bearing
- [B] Position of frame bearing
- [C] Tilt depth restrictor position
- [D] Opening angle restrictor position
- [E] Opening angle cleaning position
- [F] Sash rebate height (SRH)

SRH	Type	[A]	[B]	[C]	[D]	[E]
290 – 400	1	250	45	180 – 245	33°	90°
401 – 560	1	280	75	205 – 275	27°	67°
561 – 700	2	525	170	225 – 277	22°	88°
701 – 850	2	575	220	244 – 292	19°	72°
851 – 1200	2	625	270	261 – 363	17°	62°

2.2.5 Comfort windows (standard)



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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
	Sash rebate width	520 – 1400 mm
	Sash rebate height	530 – 1600 mm
	Sash weight	Max. 50 kg



2.3 Hinge side C

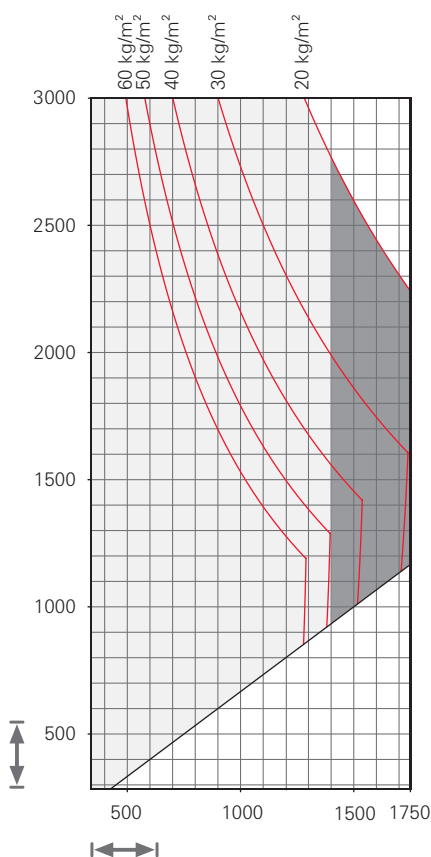
2.3.1 Turn-Only / Tilt&Turn hardware for rectangular windows

2.3.1.1 100 kg (standard)



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

 = Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 2710 N
- on the pivot rest 2890 N

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

		Basic security	Security		
			RC 1 N	RC 2 / RC 2 N	RC 3
	Sash rebate width	340 – 1750 mm	450 – 1600 mm	450 – 1400 mm	490 – 1000 mm
	Sash rebate height	285 – 3000 mm	285 – 2800 mm	490 – 2800 mm	540 – 2800 mm
	Sash weight	Max. 100 kg	Max. 100 kg	Max. 100 kg	Max. 100 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.





2.3.1.2 120 kg (standard)



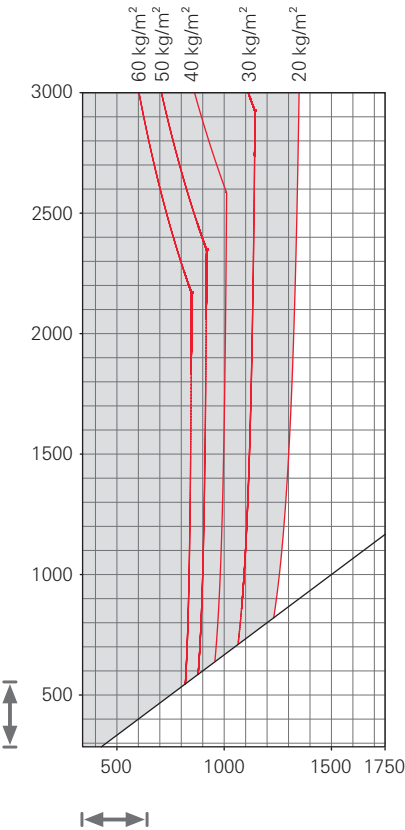
INFO

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



INFO

For balcony doors with thresholds, load transfer must be fitted at weights of 100 kg and above.



 = Impermissible application range

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 3250 N
- on the pivot rest 3470 N

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

		Basic security	Security		
			RC 1 N	RC 2 / RC 2 N	RC 3
	Sash rebate width	340 – 1350 mm	450 – 1350 mm	450 – 1350 mm	490 – 1000 mm
	Sash rebate height	285 – 3000 mm	285 – 2800 mm	490 – 2800 mm	540 – 2800 mm
	Sash weight	Max. 120 kg	Max. 120 kg	Max. 120 kg	Max. 120 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



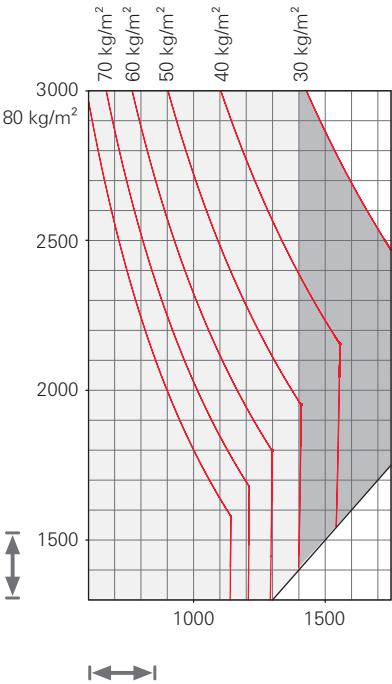


2.3.1.3 150 kg with load transfer (standard)



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
-  = Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 4200 N
- on the pivot rest 4340 N

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

Basic security			Security	
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	600 – 1750 mm	650 – 1600 mm	650 – 1400 mm
	Sash rebate height	1000 – 3000 mm	1000 – 2800 mm	1000 – 2800 mm
	Sash weight	80 – 150 kg	80 – 150 kg	80 – 150 kg



INFO

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

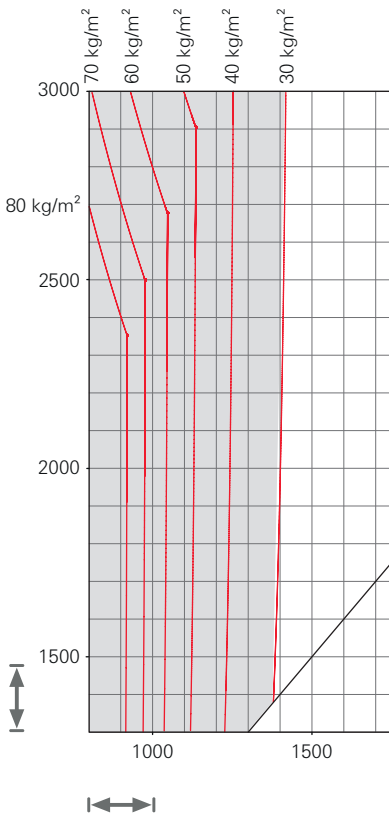
Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.3.1.4 180 kg with load transfer (standard)



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:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 5000 N
- on the pivot rest 5200 N



DANGER

Risk of death caused by the window falling!

If stay guide 500 is not secured by a fastening plate at a sash weight of > 150 kg, this may lead to a malfunction. This can cause the sash to fall.

► Install the fastening plate.



INFO

Sash weight > 150 kg

Proof of the functional durability of windows in accordance with EN 1191 is required.

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

1 mm/m² glass thickness ≅ 2.5 kg



Application range

Basic security			Security	
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	801 – 1400 mm	801 – 1400 mm	801 – 1400 mm
	Sash rebate height	1300 – 3000 mm	1300 – 2800 mm	1300 – 2800 mm
	Sash weight	80 – 180 kg	80 – 180 kg	80 – 180 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.3.2 Turn-Only hardware for centre sash in a triple-sashed window (standard)



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:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H3

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 2710 N
- on the pivot rest 2890 N

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Glass weight max. 50 kg/m²

Application range

Application range		
	Sash rebate width	370 – 1200 mm
	Sash rebate height	370 – 1800 mm
	Sash weight	Max. 100 kg



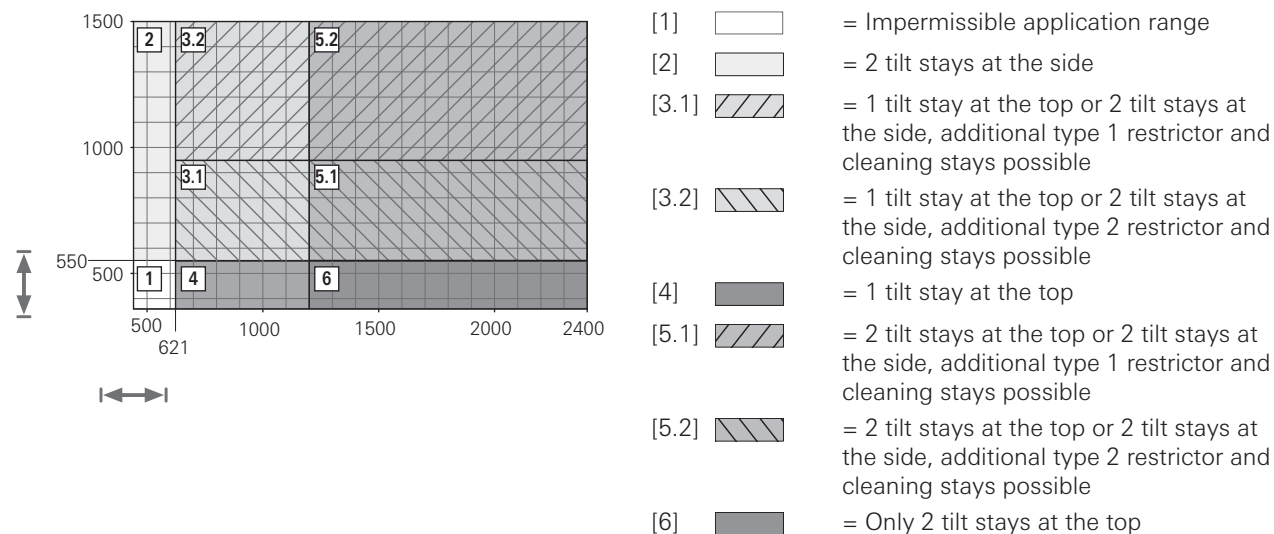
INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



2.3.3 Tilt-Only hardware for rectangular windows (standard)



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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
	Sash rebate width	450 – 2400 mm
	Sash rebate height	370 – 1500 mm
	Sash weight	with 1 tilt stay max. 60 kg with 2 tilt stays max. 80 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



INFO

Restrictor and cleaning stays recommended; mandatory for fanlights (in accordance with RAL GZ 607/12).

Restrictor and cleaning stays up to max. 60 kg.

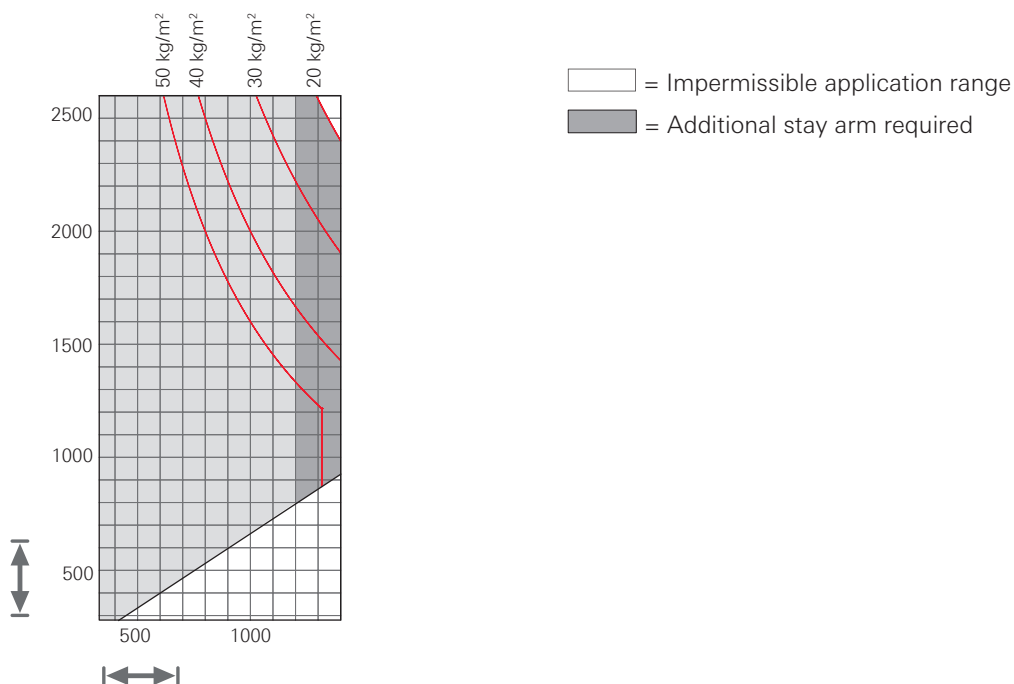
Opening widths of restrictor and cleaning stays

SRH	Type	CL	Position of sash bearing from above	Position of frame bearing from above	Tilt depth with min. SRH		Tilt depth with max. SRH	
					Restrictor	Cleaning	Restrictor	Cleaning
550 – 750	1	–	105.3	335.5	151	314	136	280
751 – 950	1	200	305.3	535.5	203	420	170	350
951 – 1150	2	–	105.3	480.5	215	630	202	600
1151 – 1350	2	200	305.3	680.5	258	758	235	700
1351 – 1500	2	2x 200	505.3	880.5	300	885	275	820

2.4 Hinge side Designo (HA 13)

2.4.1 Turn-Only / Tilt&Turn hardware for rectangular windows

2.4.1.1 80 kg



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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

		Basic security	Security RC 1 N	Security RC 2 / RC 2 N
	Sash rebate width	330 – 1400 mm	450 – 1400 mm	450 – 1400 mm
	Sash rebate height	280 – 2600 mm	280 – 2600 mm	490 – 2400 mm
	Sash weight	Max. 80 kg	Max. 80 kg	Max. 80 kg



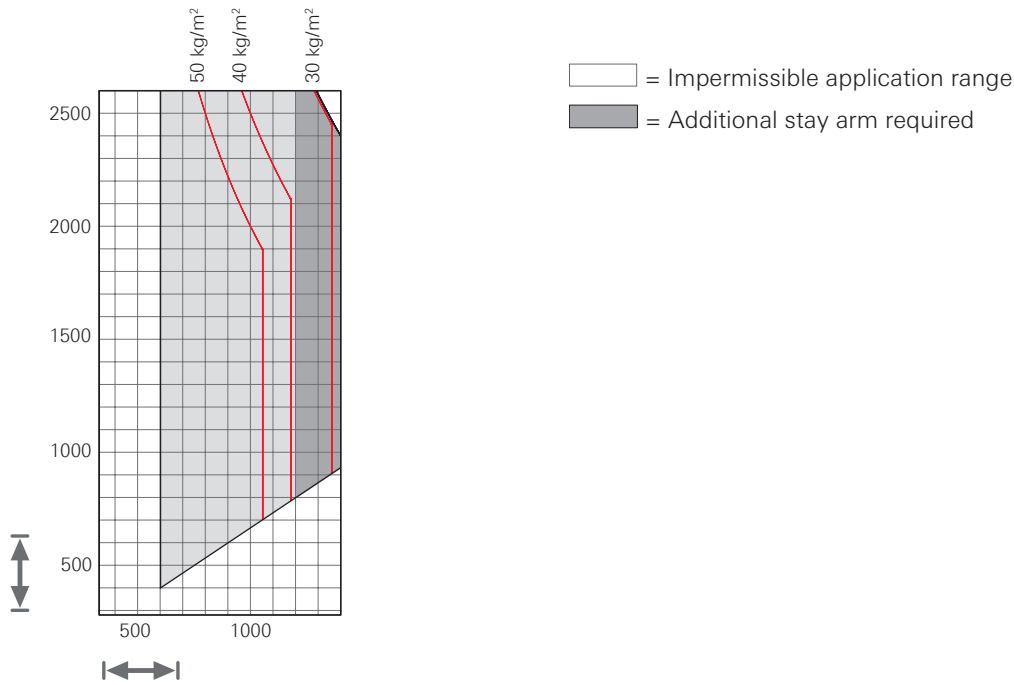
INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



2.4.1.2 100 kg



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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

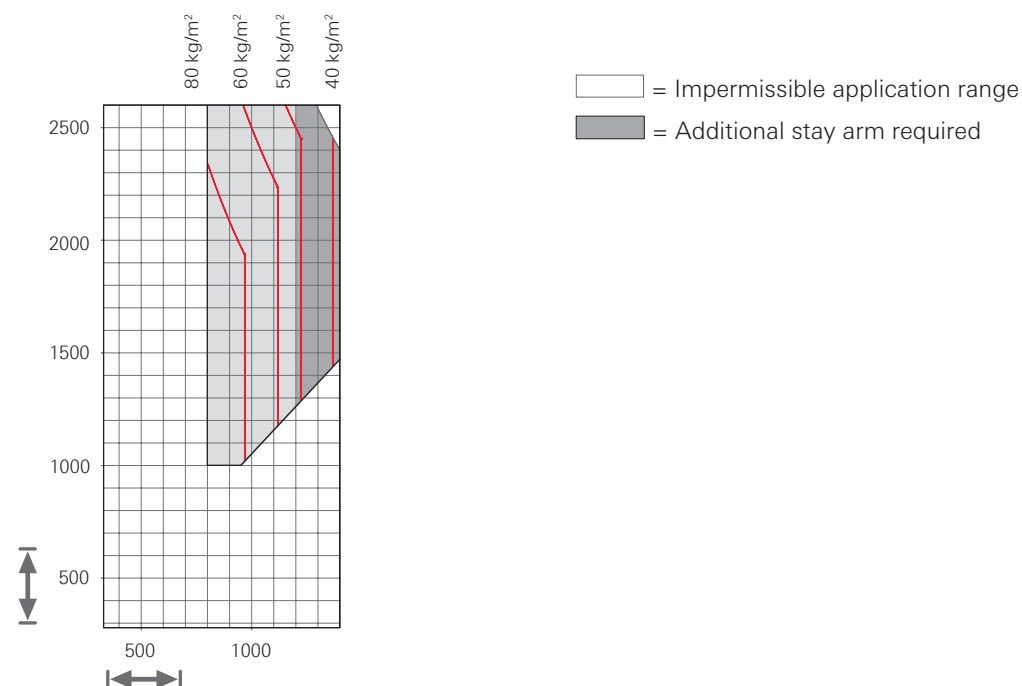
		Basic security	Security RC 1 N	Security RC 2 / RC 2 N
I ↔ I	Sash rebate width	600 – 1400 mm	600 – 1400 mm	600 – 1400 mm
H ↑ H	Sash rebate height	400 – 2600 mm	400 – 2600 mm	490 – 2400 mm
	Sash weight	Max. 100 kg	Max. 100 kg	Max. 100 kg



INFO

Observe directive TBDK for tractive force values as a function of the sash weights.
Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.4.1.3 150 kg with load transfer



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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

		Basic security	Security	Security
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	800 – 1400 mm	800 – 1400 mm	800 – 1400 mm
	Sash rebate height	1000 – 2600 mm	1000 – 2600 mm	1000 – 2400 mm
	Sash weight	80 – 150 kg	80 – 150 kg	80 – 150 kg



INFO

Sash weight > 130 kg: set the tilt depth restriction of the stay arm to 80 mm.



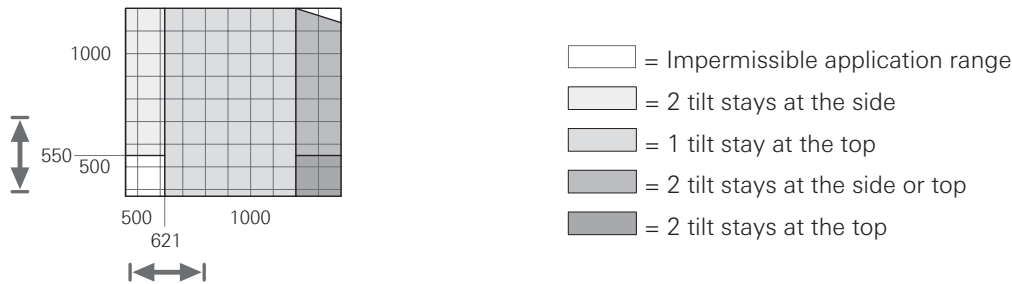
INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



2.4.2 Tilt-Only hardware for rectangular windows



The specifications in the application diagram refer to the glass weight in kg/m².
1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

Basic security		
	Sash rebate width	450 – 1400 mm
	Sash rebate height	370 – 1200 mm
	Sash weight	Max. 80 kg



INFO
Restrictor and cleaning stays recommended; mandatory for fanlights (in accordance with RAL RG 607 / 12).
Restrictor and cleaning stays up to max. 60 kg.



INFO
Observe directive TBDK for tractive force values as a function of the sash weights.
Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.5 Hinge side Designo (HA 9)

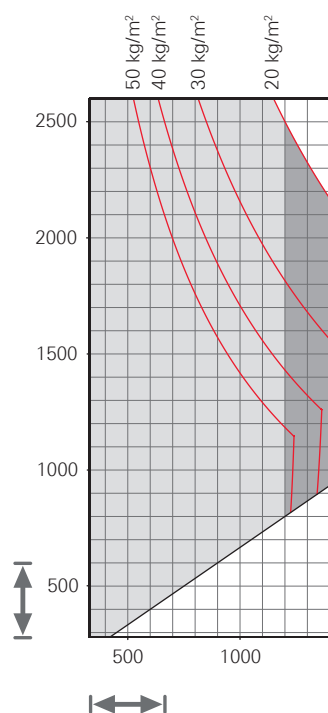
2.5.1 Turn-Only / Tilt&Turn hardware for rectangular windows

2.5.1.1 80 kg (standard)



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

■ = Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H2

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 2200 N
- on the pivot rest 2310 N

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

Basic security			Security	
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	330 – 1400 mm	430 – 1400 mm	430 – 1400 mm
	Sash rebate height	280 – 2600 mm	280 – 2600 mm	490 – 2400 mm
	Sash weight	Max. 80 kg	Max. 80 kg	Max. 80 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

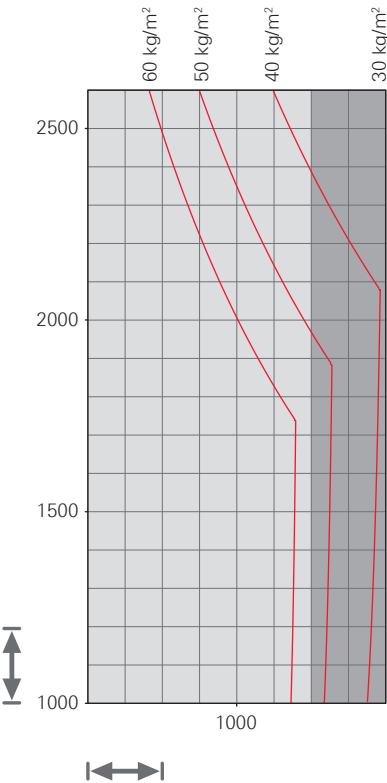


2.5.1.2 130 kg with load transfer (standard)



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
-  = Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H2

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 3525 N
- on the pivot rest 3760 N

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security			Security	
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	600 – 1400 mm	800 – 1400 mm	800 – 1400 mm
	Sash rebate height	1000 – 2600 mm	1000 – 2600 mm	1000 – 2400 mm
	Sash weight	80 – 130 kg	80 – 130 kg	80 – 130 kg



INFO

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

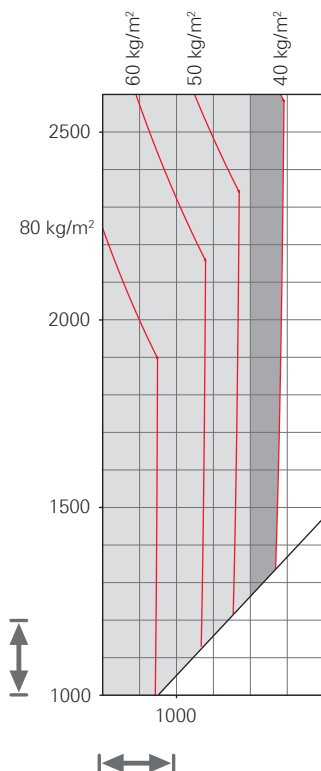
Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.5.1.3 150 kg with load transfer (standard)



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

= Additional stay arm required

Test and calculation principles:

Tilt&Turn test in accordance with QM 328 – hardware certification programme in accordance with DIN EN 13126-8 – class H2

Deductible dimension of glass = 28 mm

(Sash) profile weight = 3.25 kg/m

Lower deductible dimensions of glass or higher profile weights require a separate assessment.



INFO

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

- on the stay bearing 4200 N
- on the pivot rest 4340 N

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

		Basic security	Security	
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	800 – 1400 mm	800 – 1400 mm	800 – 1400 mm
	Sash rebate height	1000 – 2600 mm	1000 – 2600 mm	1000 – 2400 mm
	Sash weight	80 – 150 kg	80 – 150 kg	80 – 150 kg



INFO

Sash weight > 130 kg: set the tilt depth restriction of the stay arm to 80 mm.



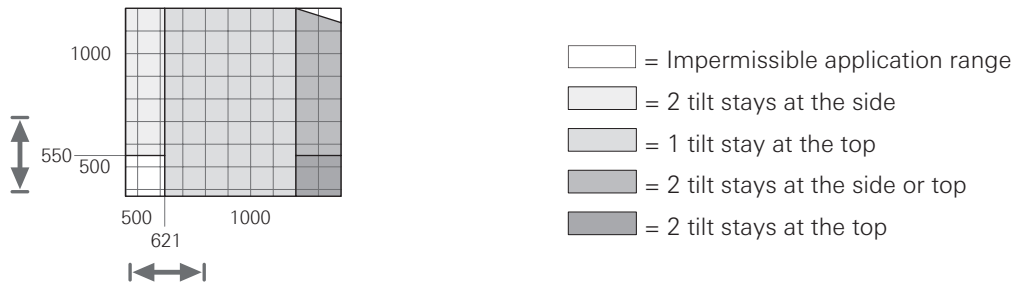
INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



2.5.2 Tilt-Only hardware for rectangular windows (standard)



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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

Basic security		
	Sash rebate width	450 – 1400 mm
	Sash rebate height	370 – 1200 mm
	Sash weight	Max. 80 kg



INFO

Restrictor and cleaning stays recommended; mandatory for fanlights (in accordance with RAL RG 607 / 12).

Restrictor and cleaning stays up to max. 60 kg.



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

2.6 Hinge side Royal

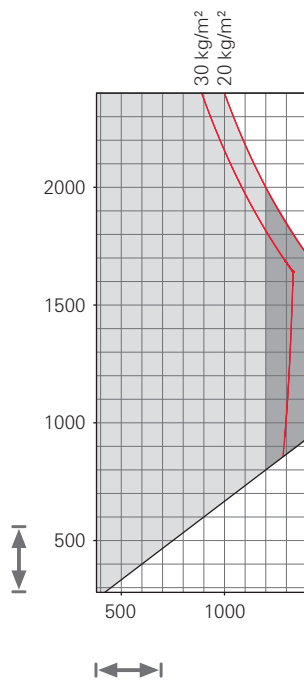
2.6.1 Turn-Only / Tilt&Turn hardware for rectangular windows (standard)



INFO

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

80 kg



□ = Impermissible application range

■ = Additional stay arm required

Test and calculation principles:

Tilt&Turn test – hardware certification programme in accordance with EN 13126-8:2017 class H2

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 2200 N
- on the pivot rest 2310 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

Basic security		Security	
		RC 1 N	RC 2 / RC 2 N
	Sash rebate width	380 – 1400 mm	380 – 1400 mm
	Sash rebate height	280 – 2400 mm	350 – 2400 mm
	Sash weight	Max. 80 kg	Max. 80 kg



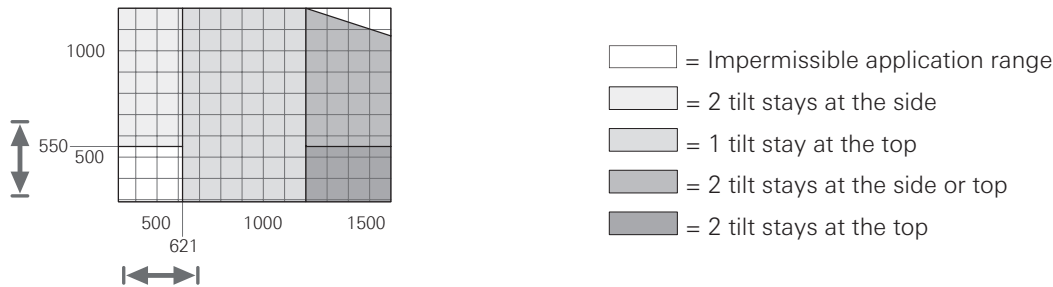
INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.



2.6.2 Tilt-Only hardware for rectangular windows (standard)



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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

Basic security		
I↔I	Sash rebate width	450 – 1600 mm
I↕I	Sash rebate height	480 – 1200 mm
🏠	Sash weight	Max. 80 kg



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.

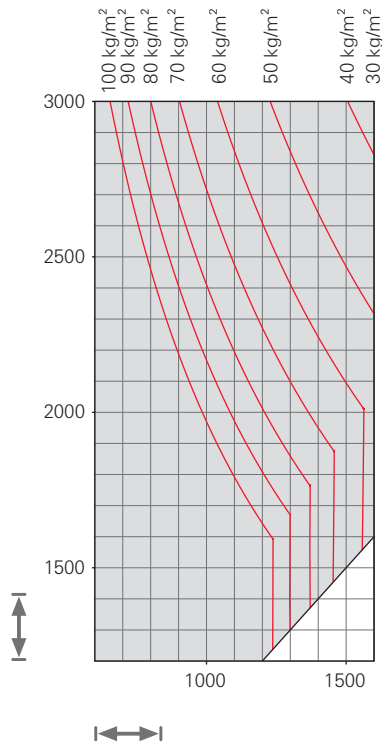
2.7 Hinge side Power Hinge

2.7.1 Tilt&Turn hardware for rectangular windows (standard)



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



INFO

Sash weight > 150 kg

Proof of the functional durability of windows in accordance with EN 1191 is required.

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

1 mm/m² glass thickness ≈ 2.5 kg

Application range

		Basic security	Security	
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	600 – 1600 mm	600 – 1600 mm	600 – 1600 mm
	Sash rebate height	1200 – 3000 mm	1200 – 3000 mm	1200 – 3000 mm
	Sash weight	Max. 200 kg	Max. 200 kg	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.quetegemeinschaft-schloss-beschlag.de.

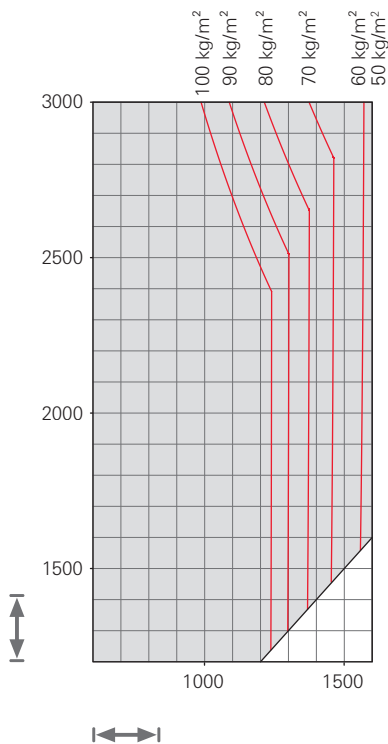


2.7.2 Turn-Only hardware for rectangular windows (standard)



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



INFO

Sash weight > 150 kg

Proof of the functional durability of windows in accordance with EN 1191 is required.

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

1 mm/m² glass thickness $\approx$ 2.5 kg

Application range

		Basic security		Security	
				RC 1 N	RC 2 / RC 2 N
	Sash rebate width	400 – 1600 mm		400 – 1600 mm	600 – 1600 mm
	Sash rebate height	1200 – 3000 mm		1200 – 3000 mm	1200 – 3000 mm
	Sash weight	Max. 300 kg		Max. 300 kg	Max. 200 kg

Application diagrams

Hinge side Power Hinge

Turn-Only hardware for rectangular windows (standard)



INFO

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

Further information can be found at www.guetegemeinschaft-schloss-beschlag.de.





Hinge side T

T&T espagnolette, VT – fixed handle height	76
T&T espagnolette – centred / variable handle height	110

Hinge side C

T&T espagnolette, VT – fixed handle height	142
T&T espagnolette – centred / variable handle height	182

Hinge side Designo (HA 13)

T&T espagnolette, VT – fixed handle height	224
T&T espagnolette – centred / variable handle height	252

Hinge side Designo (HA 9)

T&T espagnolette, VT – fixed handle height	290
T&T espagnolette – centred / variable handle height	312

Hinge side Royal

T&T espagnolette, VT – fixed handle height	336
T&T espagnolette – centred / variable handle height	362

Hinge side Power Hinge

T&T espagnolette, VT – fixed handle height	392
T&T espagnolette – centred / variable handle height	418

3 Hardware overviews



INFO

All hardware overviews shown in this chapter are for illustration purposes only. Please refer to the applicable installation instructions for exact specifications and installation advice.



INFO

Security classes

- The RC 1 N, RC 2, RC 2 N and RC 3 security classes refer to the entire system.
- The hardware configurations shown in the hardware overviews are recommendations.
- The hardware complies with the corresponding security classes in the required system tests.
- However, the security 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.



3.1 Hinge side T

3.1.1 T&T espagnolette, VT – fixed handle height

3.1.1.1 Tilt&Turn hardware

3.1.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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

3.1.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

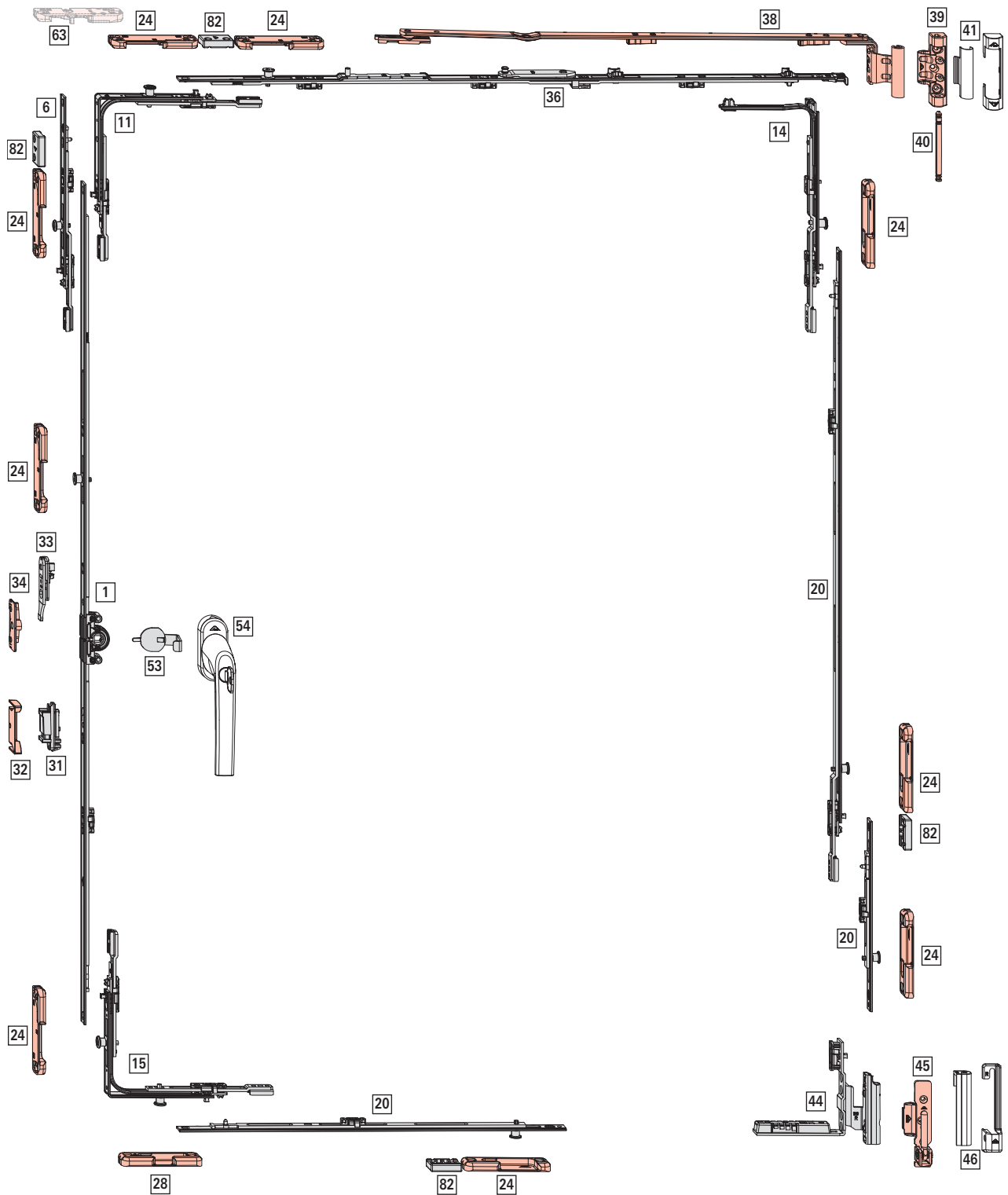
Roto Con Orders

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.



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3.1.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay arm → <i>from page 529</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

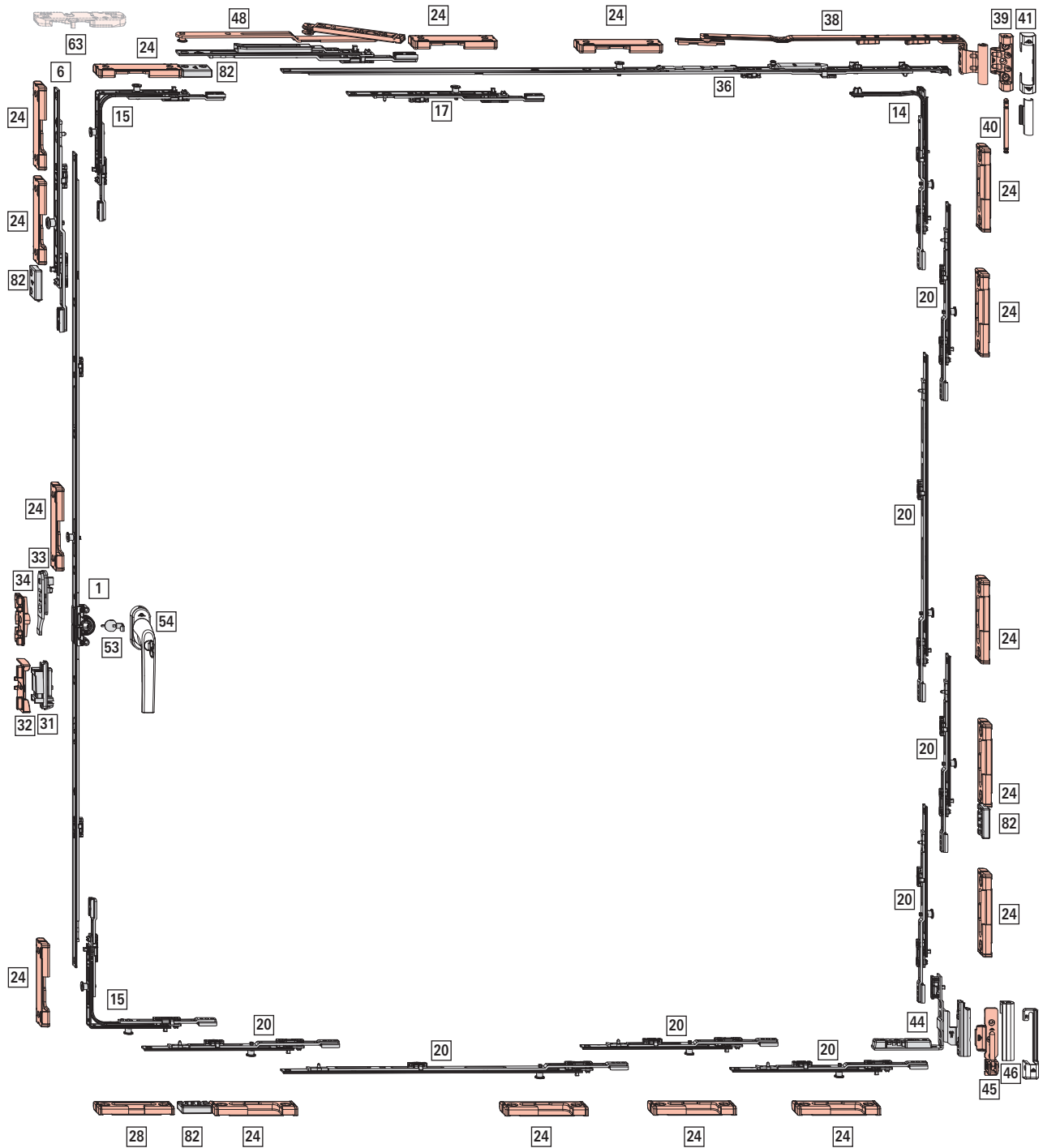
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3.1.1.1.4 RC 3





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 3		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

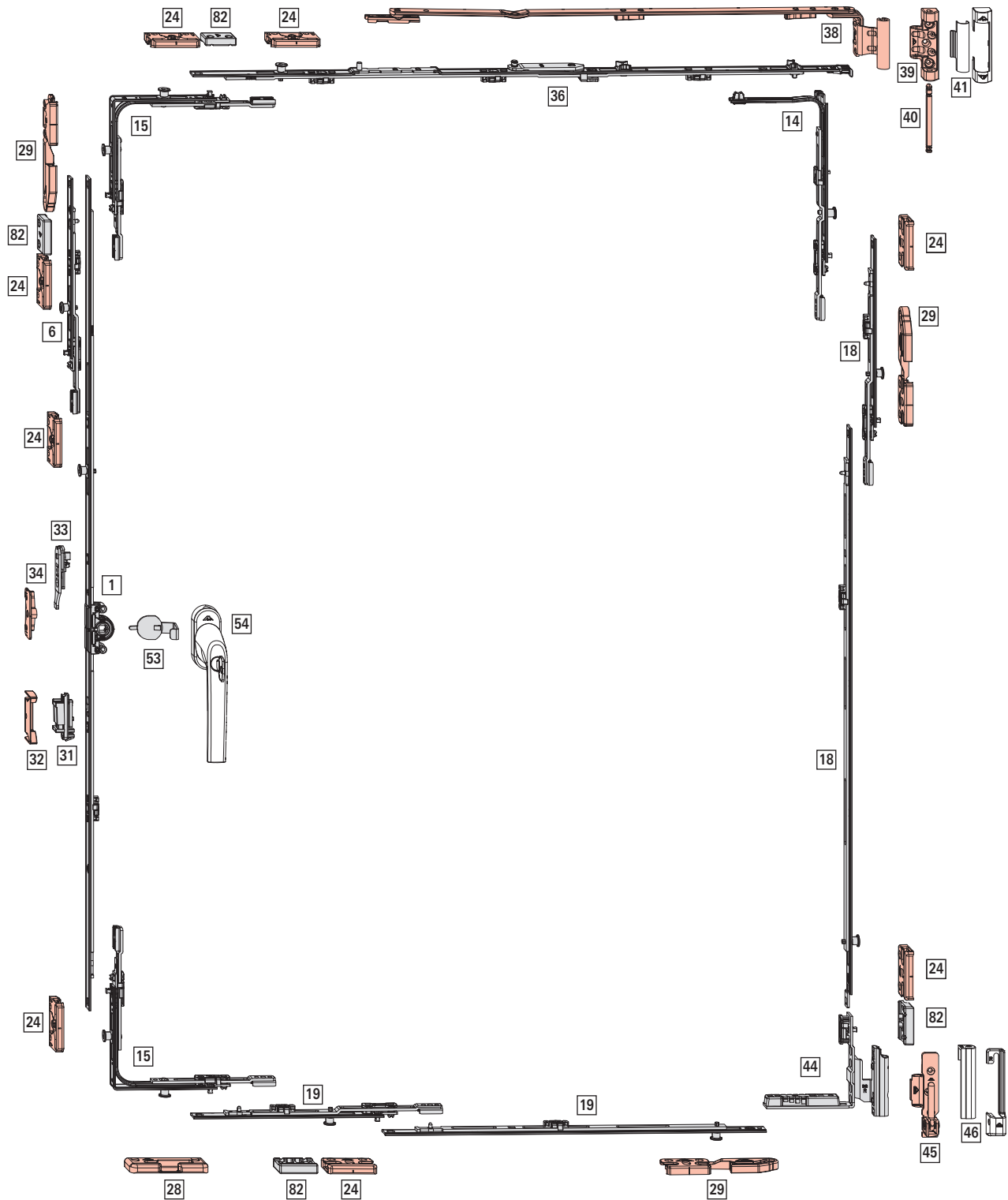
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3.1.1.1.5 TiltSafe RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[29]	Security striker for tilt ventilation → <i>from page 618</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

**INFO**

Only for hardware axis 13 and rebate depth ≥ 30 mm.

Application range

TiltSafe RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg

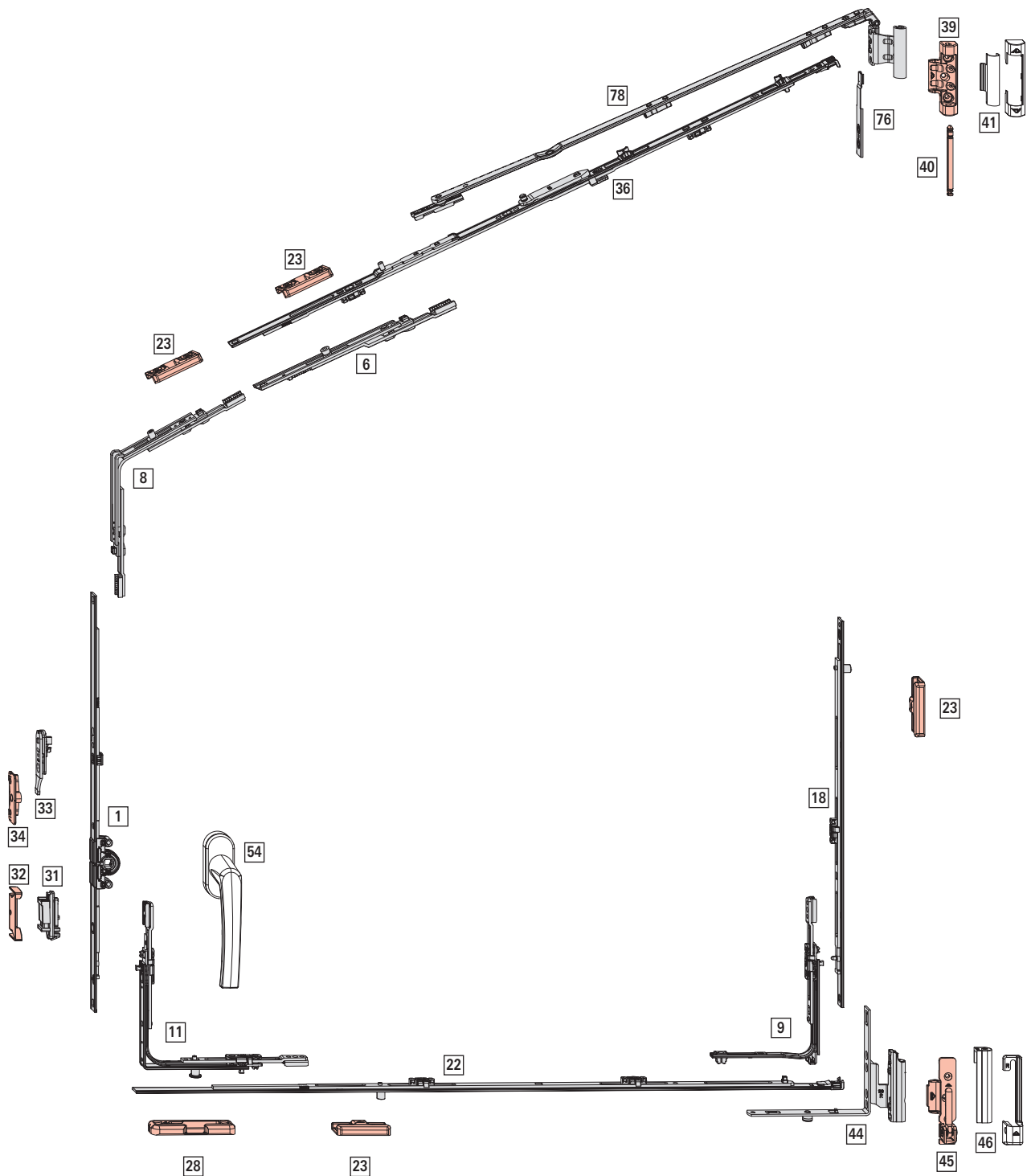
**INFO****Roto Con Orders**

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.



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3.1.1.1.6 Pitched window – basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[8]	Corner drive for pitched windows → <i>from page 513</i>
[9]	Corner drive for arched windows → <i>from page 513</i>
[11]	Corner drive, standard → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[22]	Arched component → <i>from page 579</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[39]	Stay arm → <i>from page 529</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[54]	Handle (see catalogue CTL_1)
[76]	End piece for pitched stay arm → <i>from page 676</i>
[78]	Stay arm for pitched windows → <i>from page 534</i>

Application range

Basic security		
	Sash rebate width (SRW)	340 – 1300 mm
	Sash rebate height (SRH)	361 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



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3.1.1.1.7 Arched window – basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[9]	Corner drive for arched windows → <i>from page 513</i>
[11]	Corner drive, standard → <i>from page 508</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[54]	Handle (see catalogue CTL_1)
[70]	Arched component, horizontal → <i>from page 579</i>
[71]	Arched component, vertical → <i>from page 579</i>
[72]	Arched espagnolette connector → <i>from page 485</i>
[73]	Arched additional scissor stay → <i>from page 629</i>
[74]	Arched centre lock, standard → <i>from page 578</i>
[75]	Arched centre lock, couplable → <i>from page 578</i>
[77]	Arched sash stay → <i>from page 537</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1300 mm
	Sash rebate height at start of arch (SRH)	500 – 1900 mm
	Sash weight (S.kg)	Max. 80 kg



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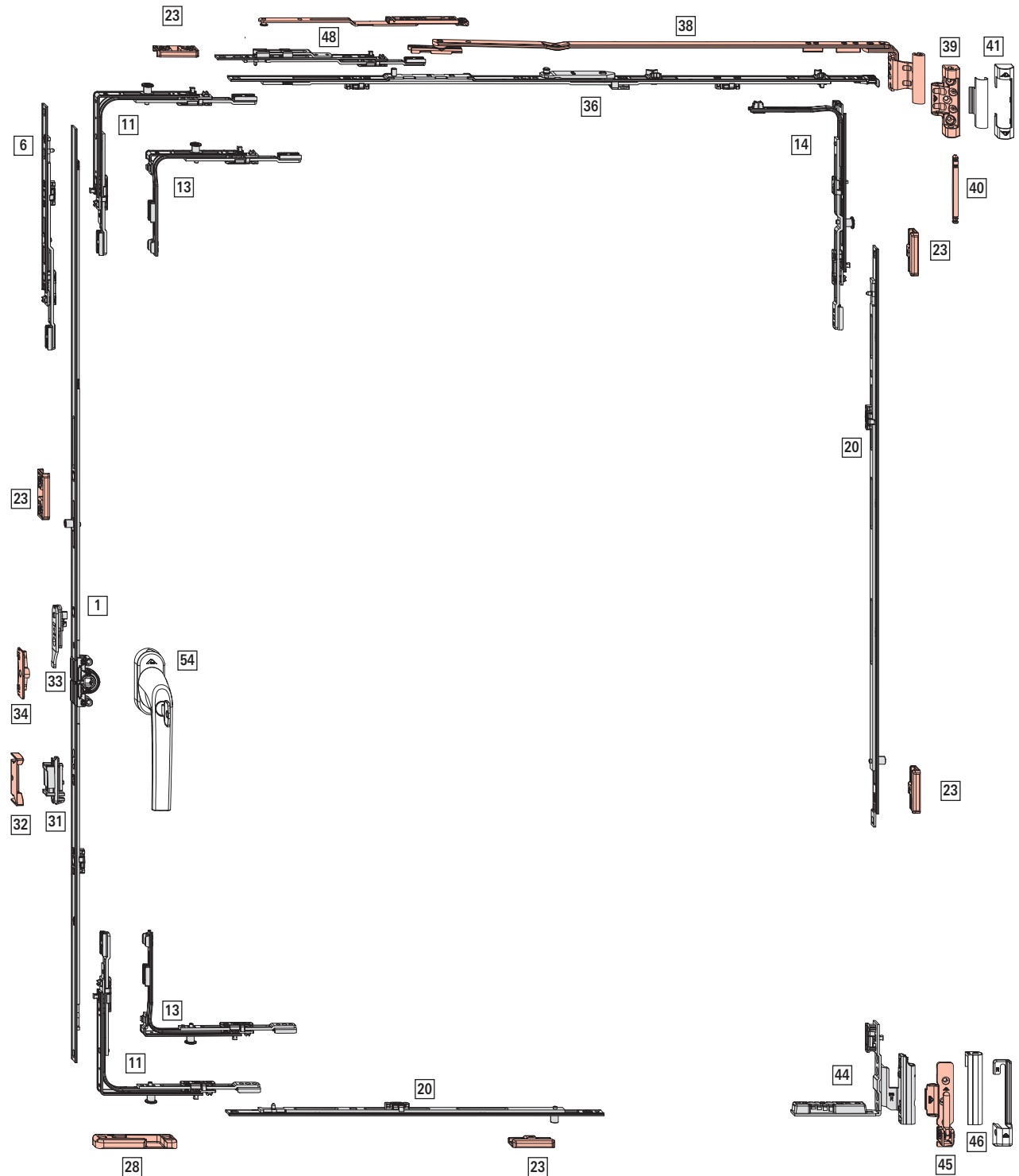
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3.1.1.2 TiltFirst hardware

3.1.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm, TiltFirst → <i>from page 538</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[54]	Handle, lockable (see catalogue CTL_1)
 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.	

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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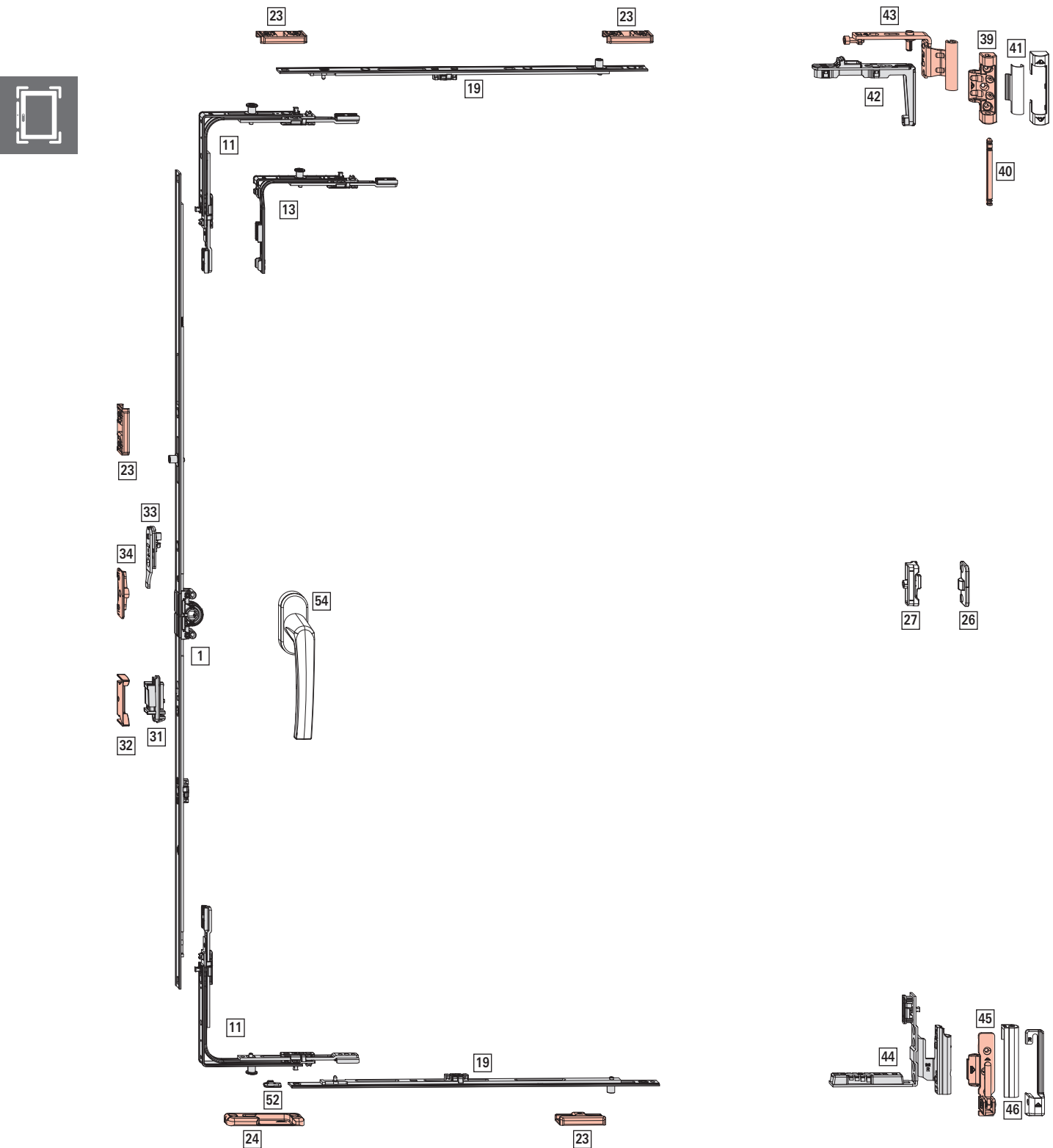
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3.1.1.3 Turn-Only hardware

3.1.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 548</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

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3.1.1.3.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

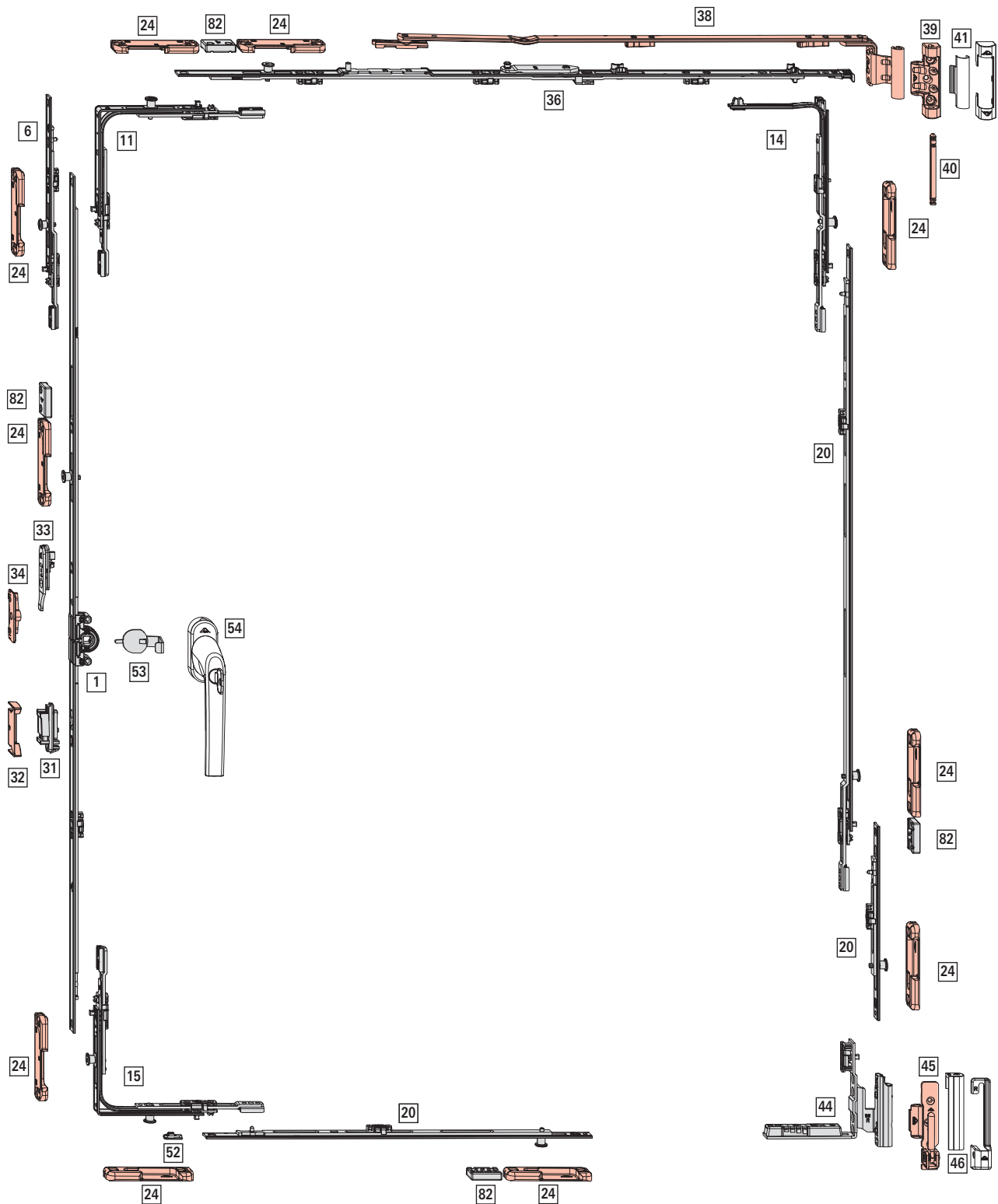
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3.1.1.3.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i> Stay bearing → <i>from page 557</i>
[40]	Sash stay cover caps → <i>from page 564</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

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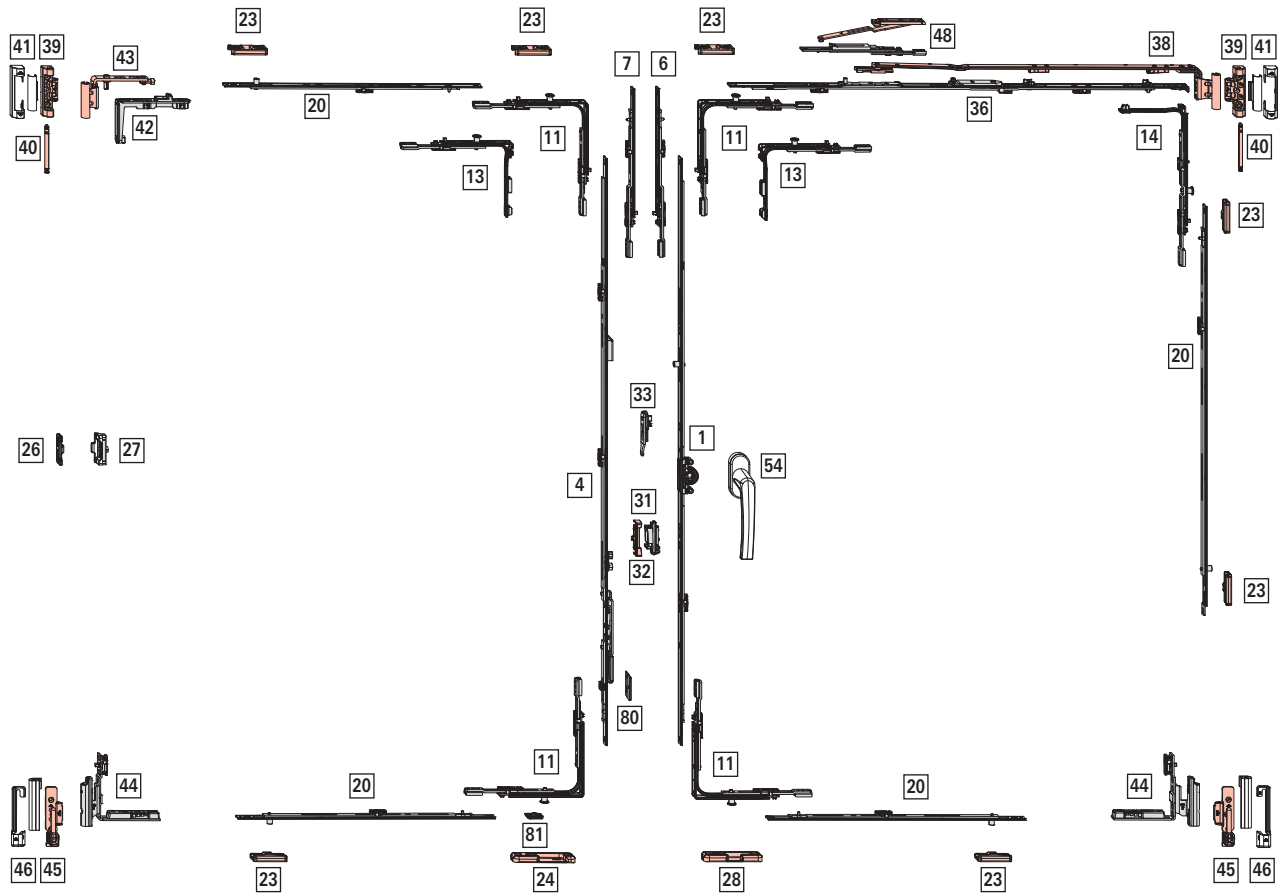
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3.1.1.4 Floating-mullion hardware – standard

3.1.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 548</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

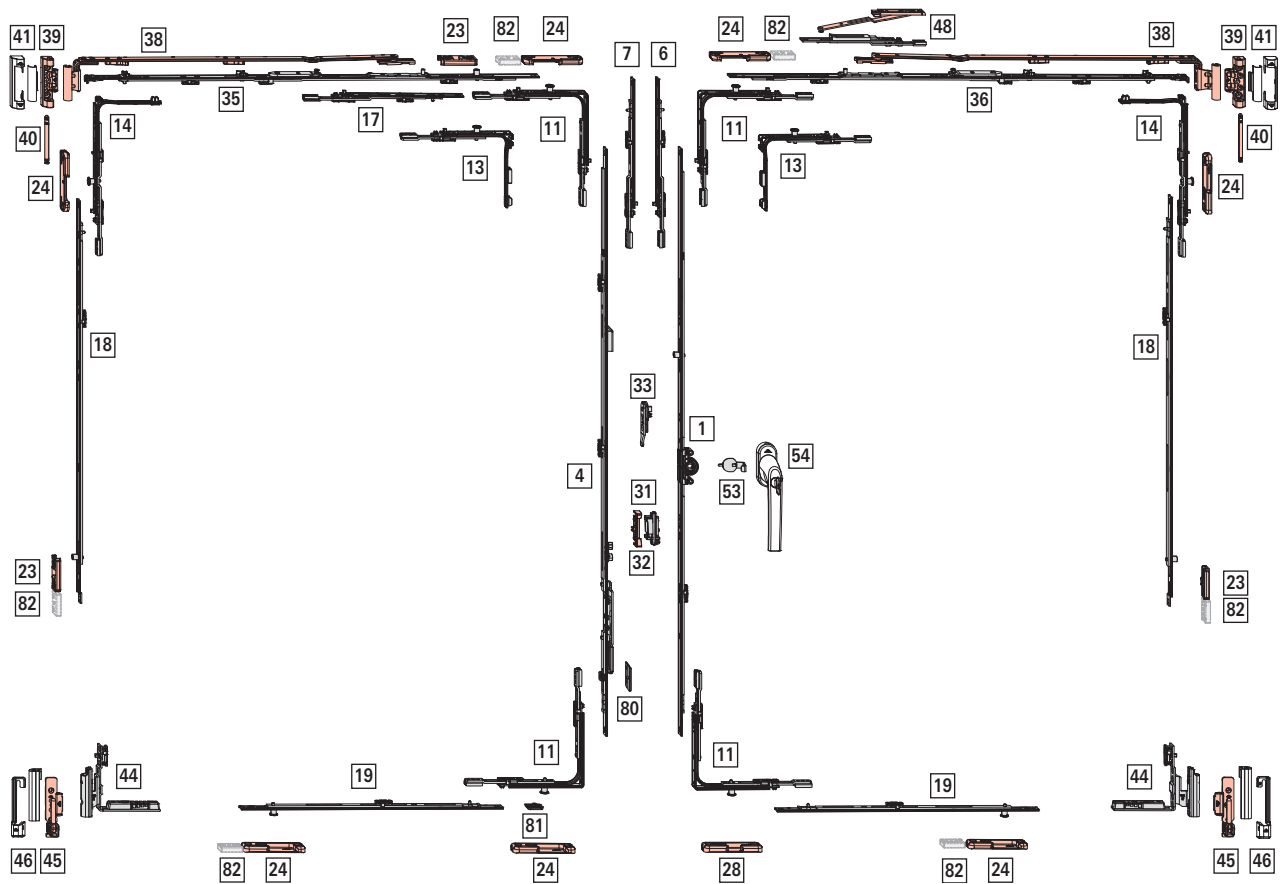
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3.1.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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T&T espagnolette, VT – fixed handle height

3.1.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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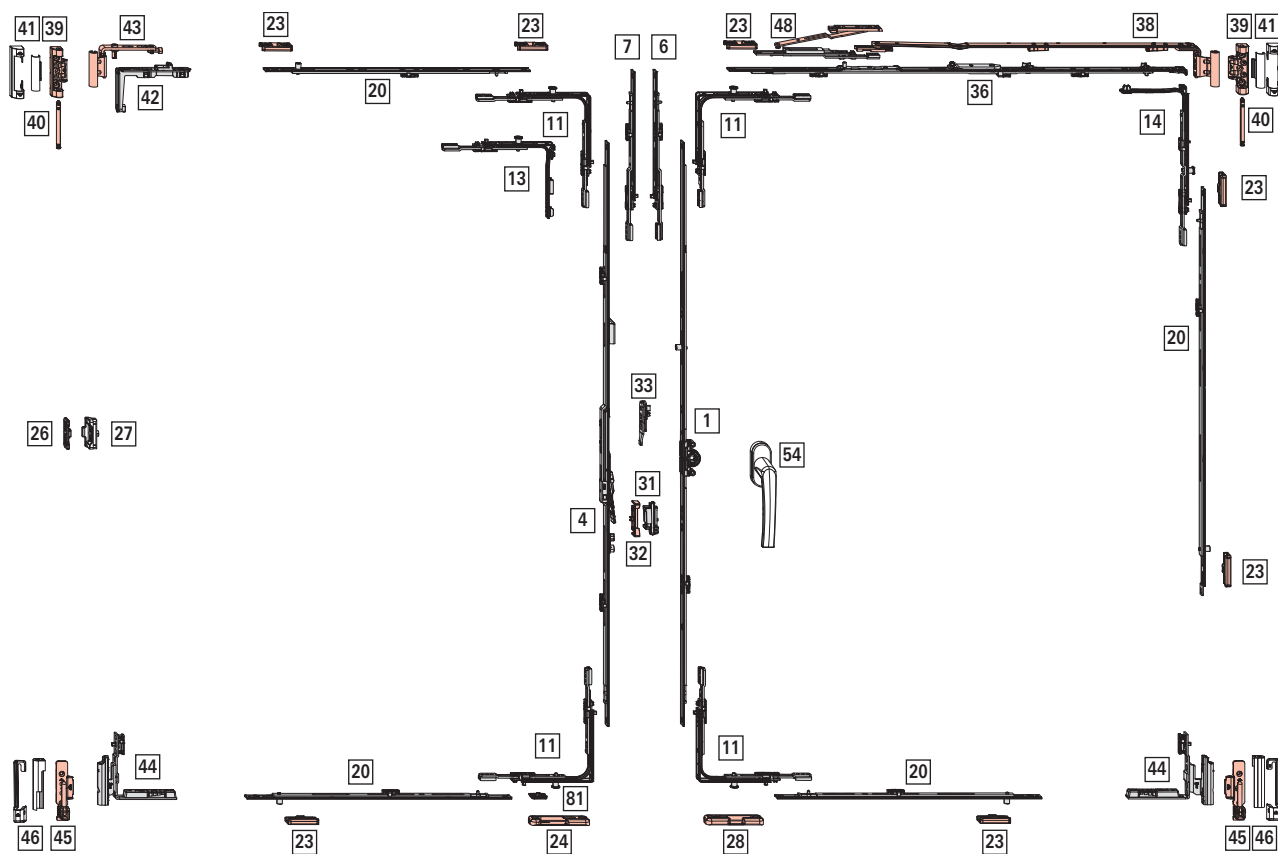
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3.1.1.5 Floating-mullion hardware – Plus

3.1.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 548</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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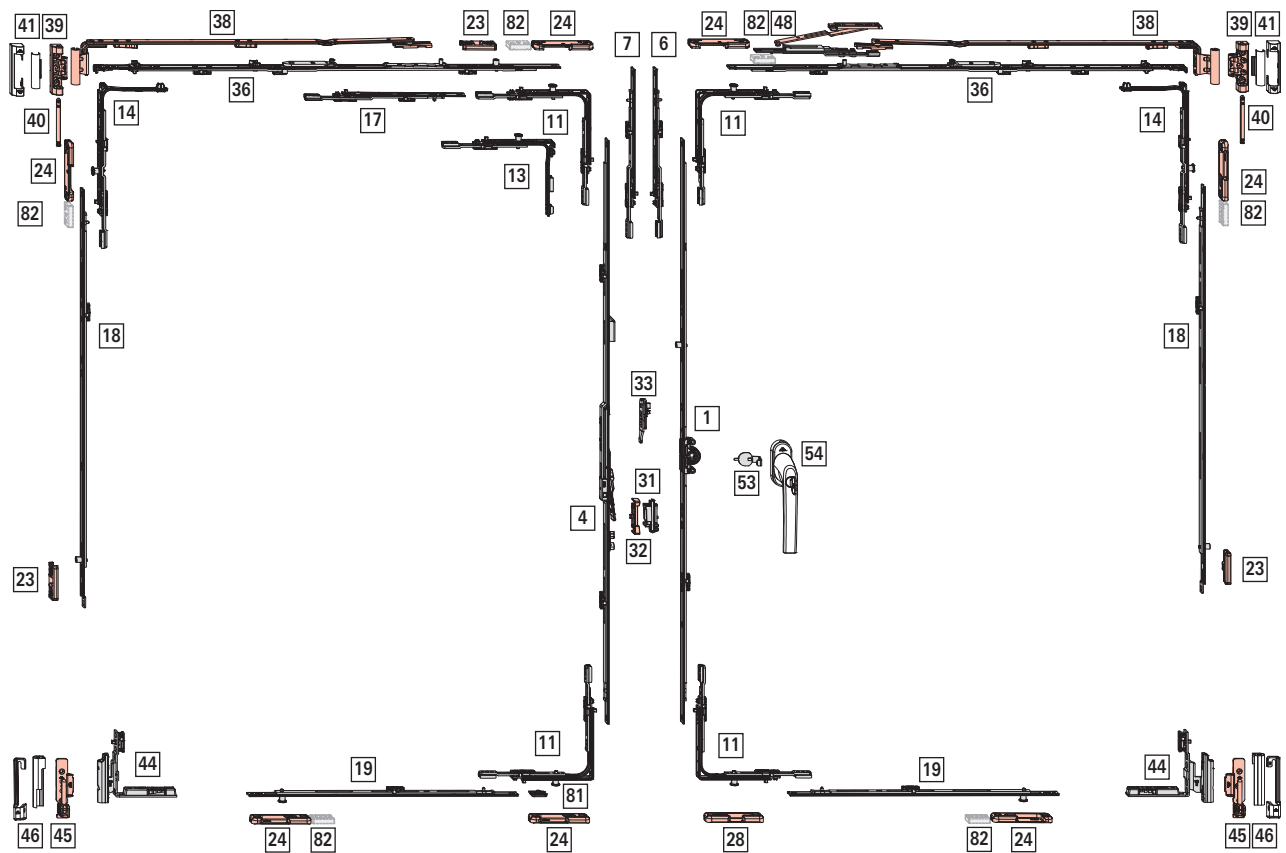


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Hinge side T

T&T espagnolette, VT – fixed handle height

3.1.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

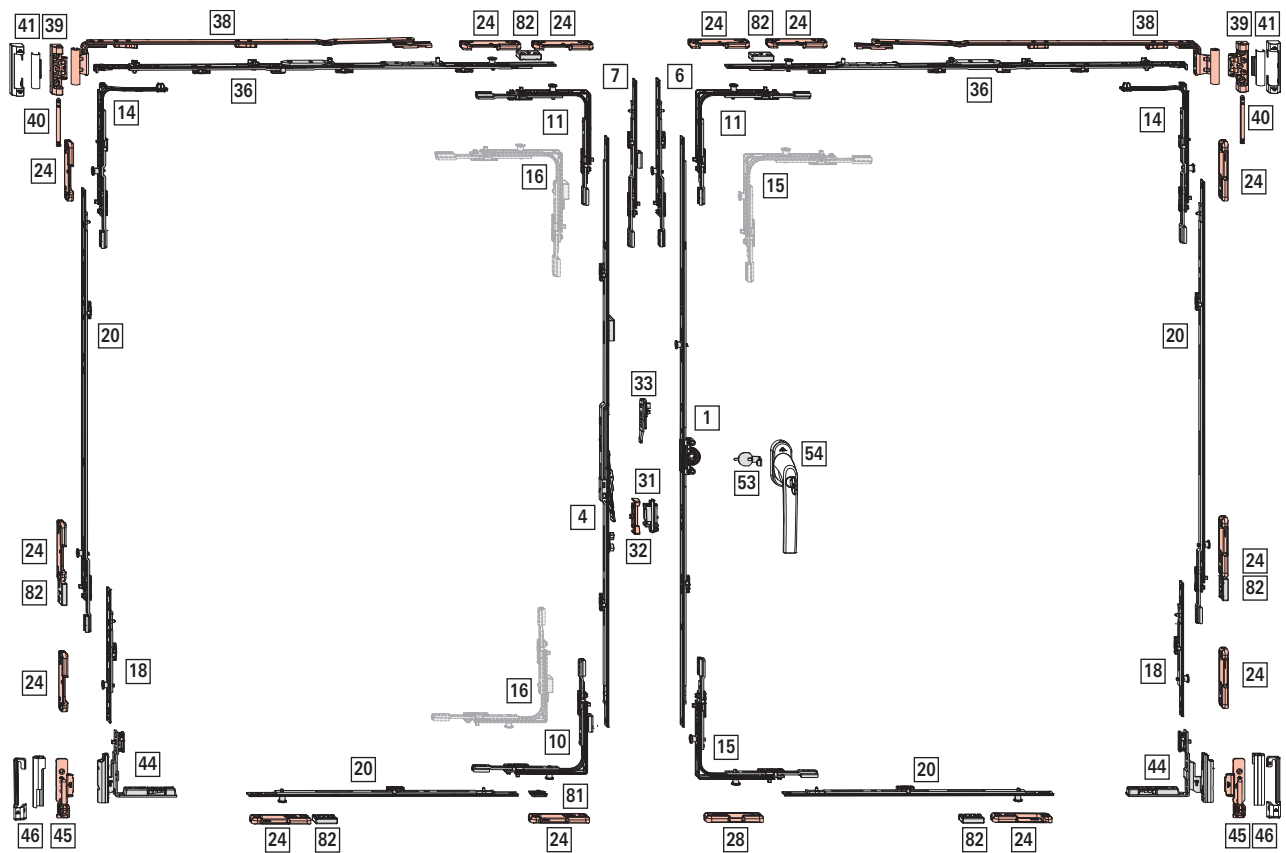
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3.1.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	400 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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3.1.2 T&T espagnolette – centred / variable handle height

3.1.2.1 Tilt&Turn hardware

3.1.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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3.1.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

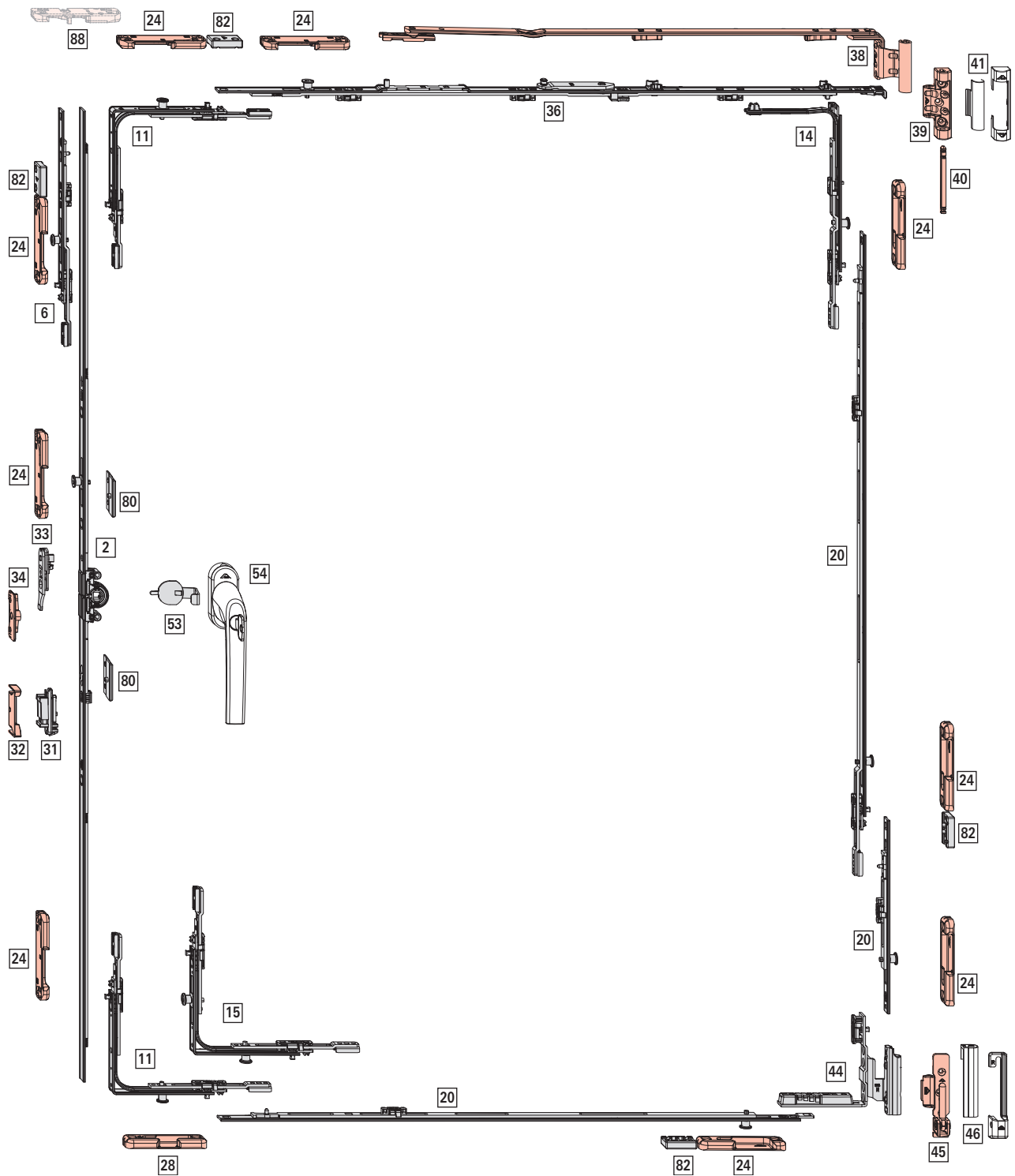
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3.1.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay arm → <i>from page 529</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

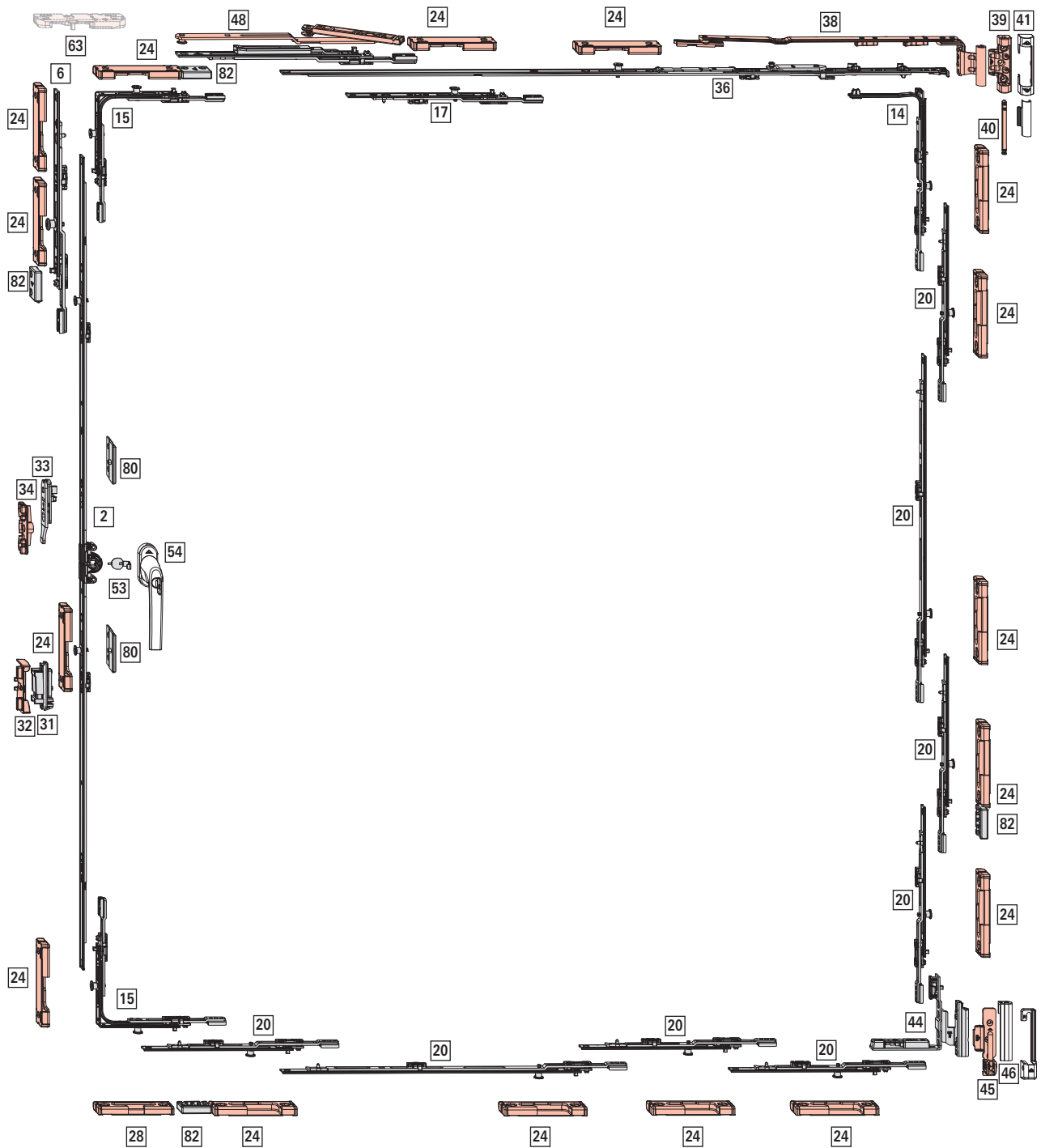
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3.1.2.1.4 RC 3





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 801 mm) → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 3		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

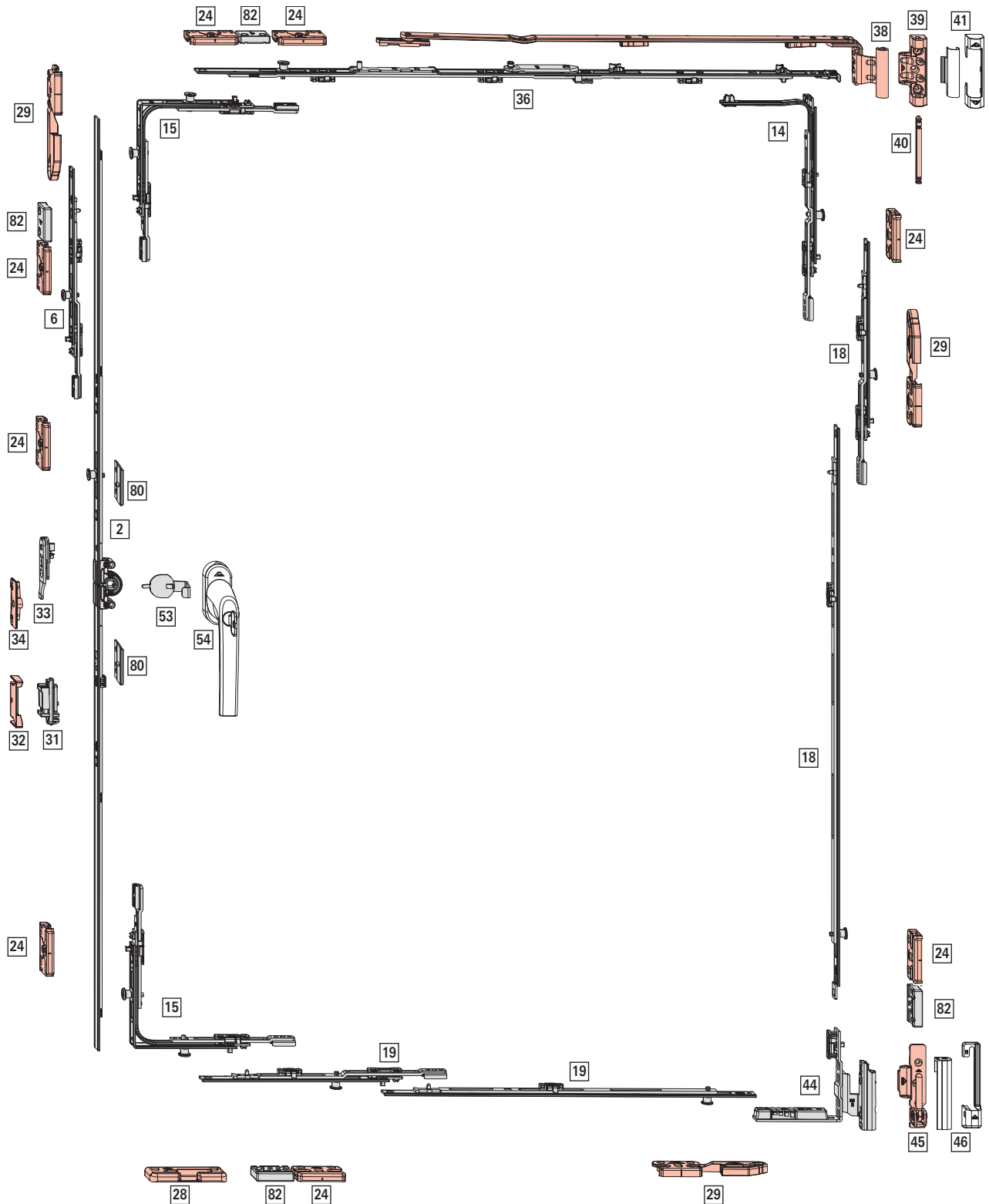
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3.1.2.1.5 TiltSafe RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[29]	Security striker for tilt ventilation → <i>from page 618</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

**INFO**

Only for hardware axis 13 and rebate depth ≥ 30 mm.

Application range

TiltSafe RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg

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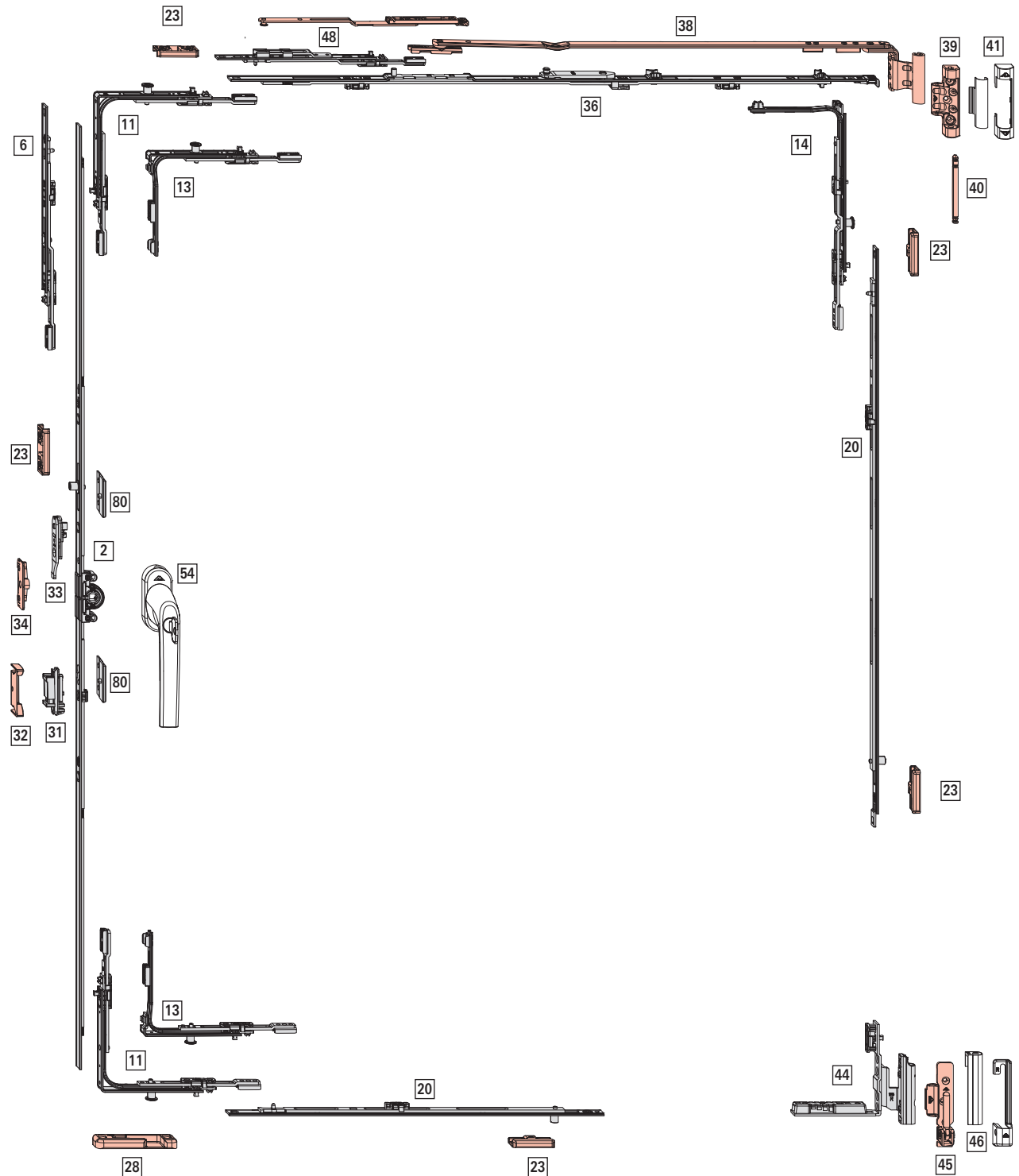
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3.1.2.2 TiltFirst hardware

3.1.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm, TiltFirst → <i>from page 538</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[54]	Handle, lockable (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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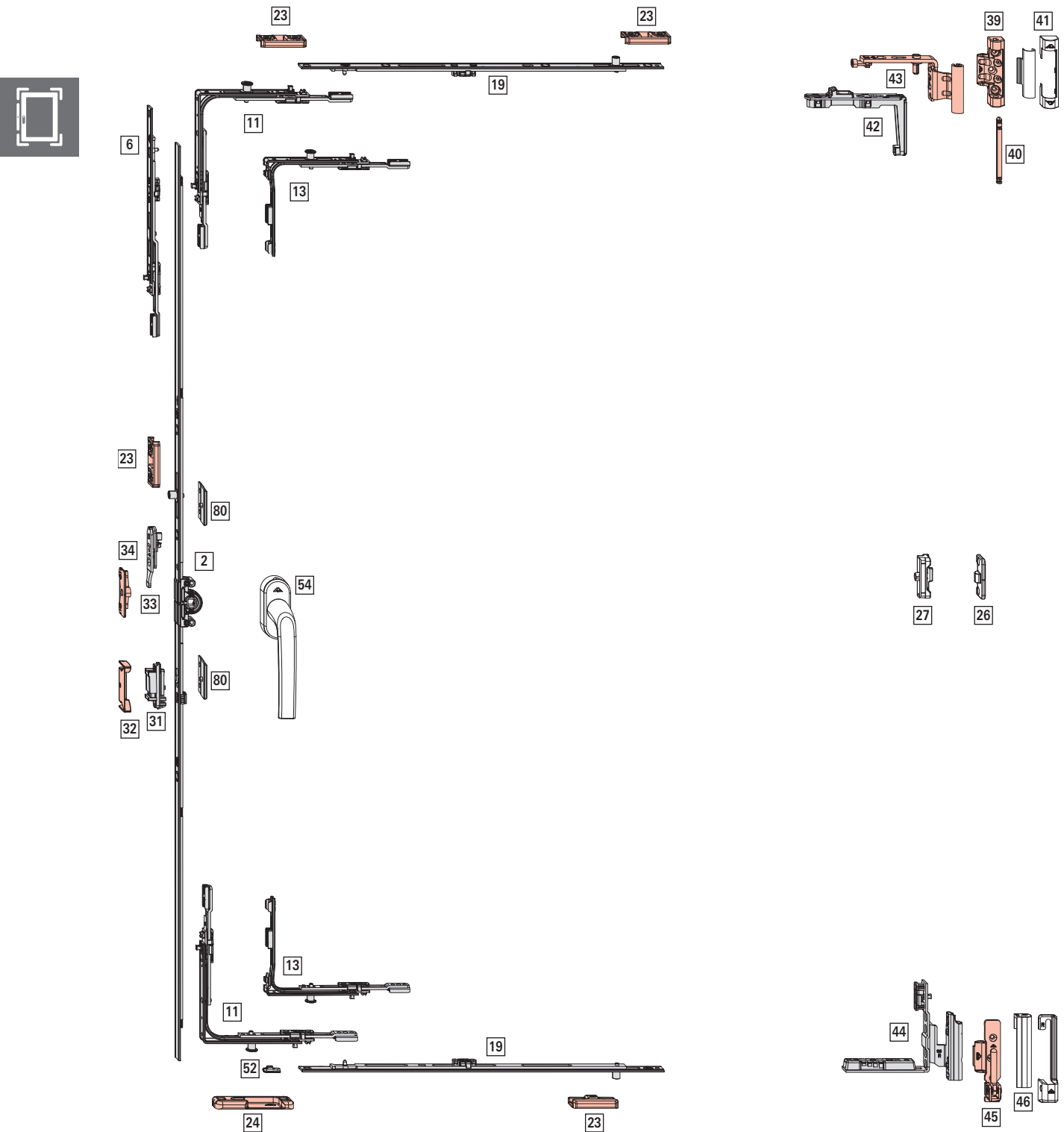
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3.1.2.3 Turn-Only hardware

3.1.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 548</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

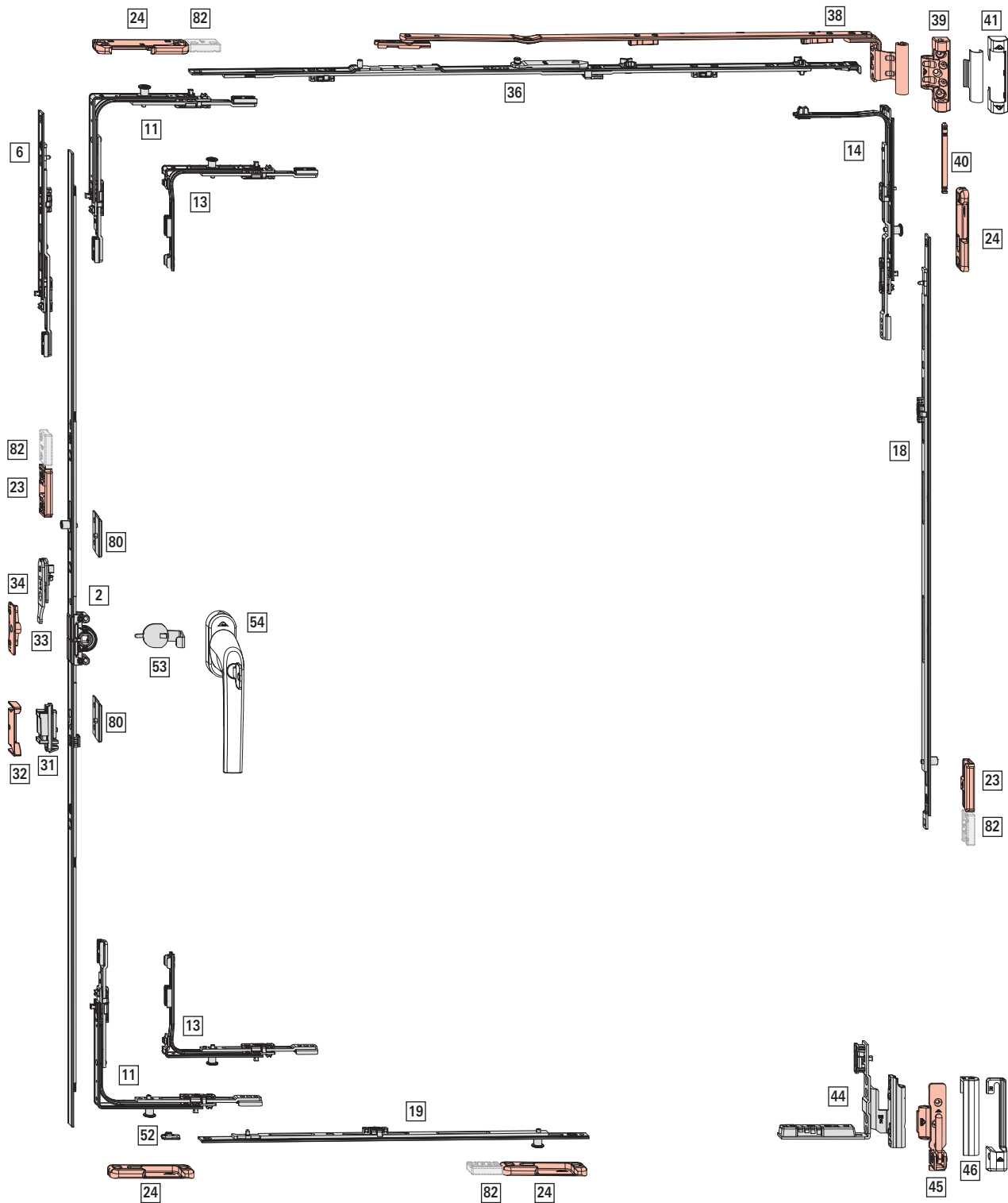
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3.1.2.3.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

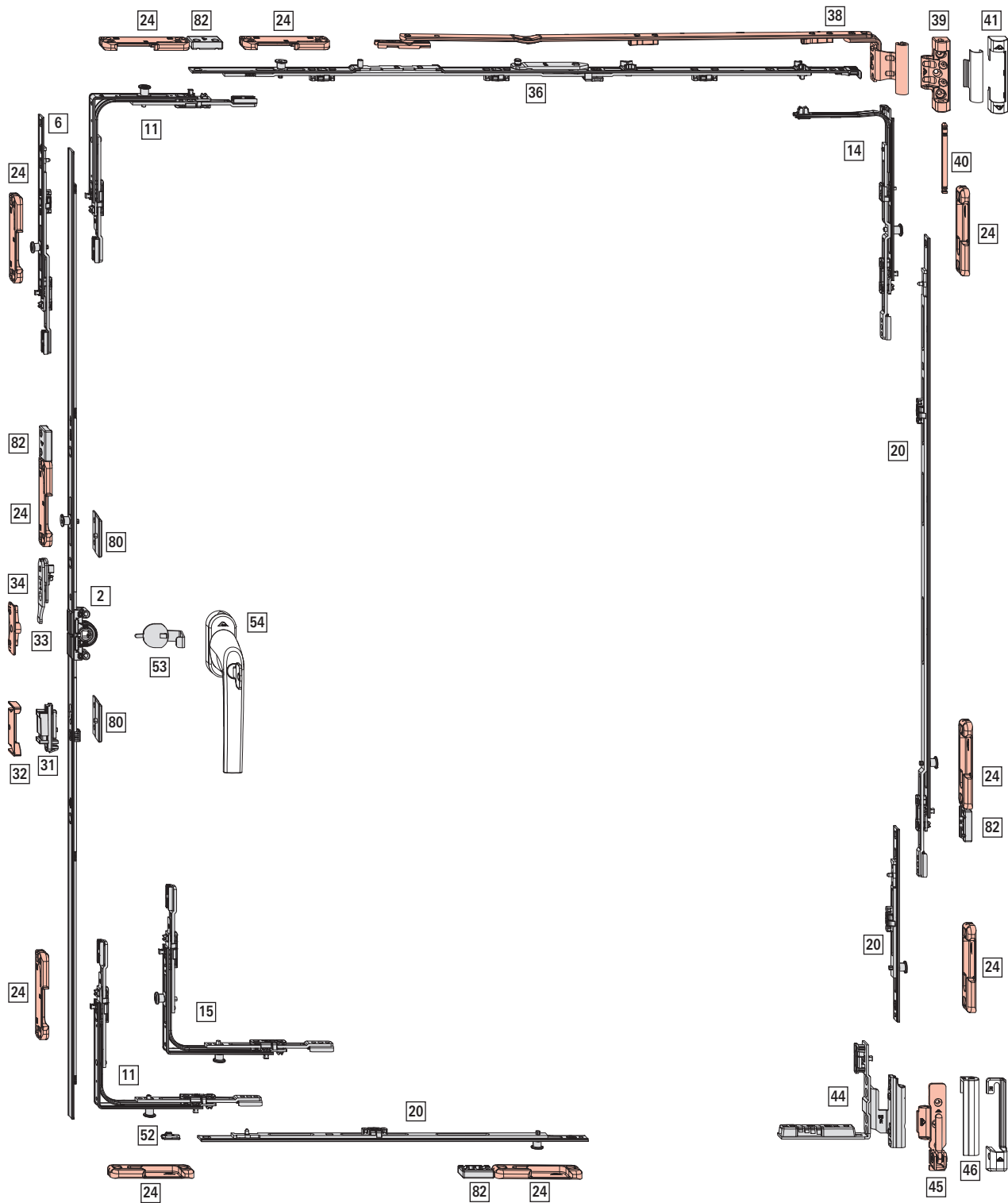
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3.1.2.3.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Sash stay cover caps → <i>from page 564</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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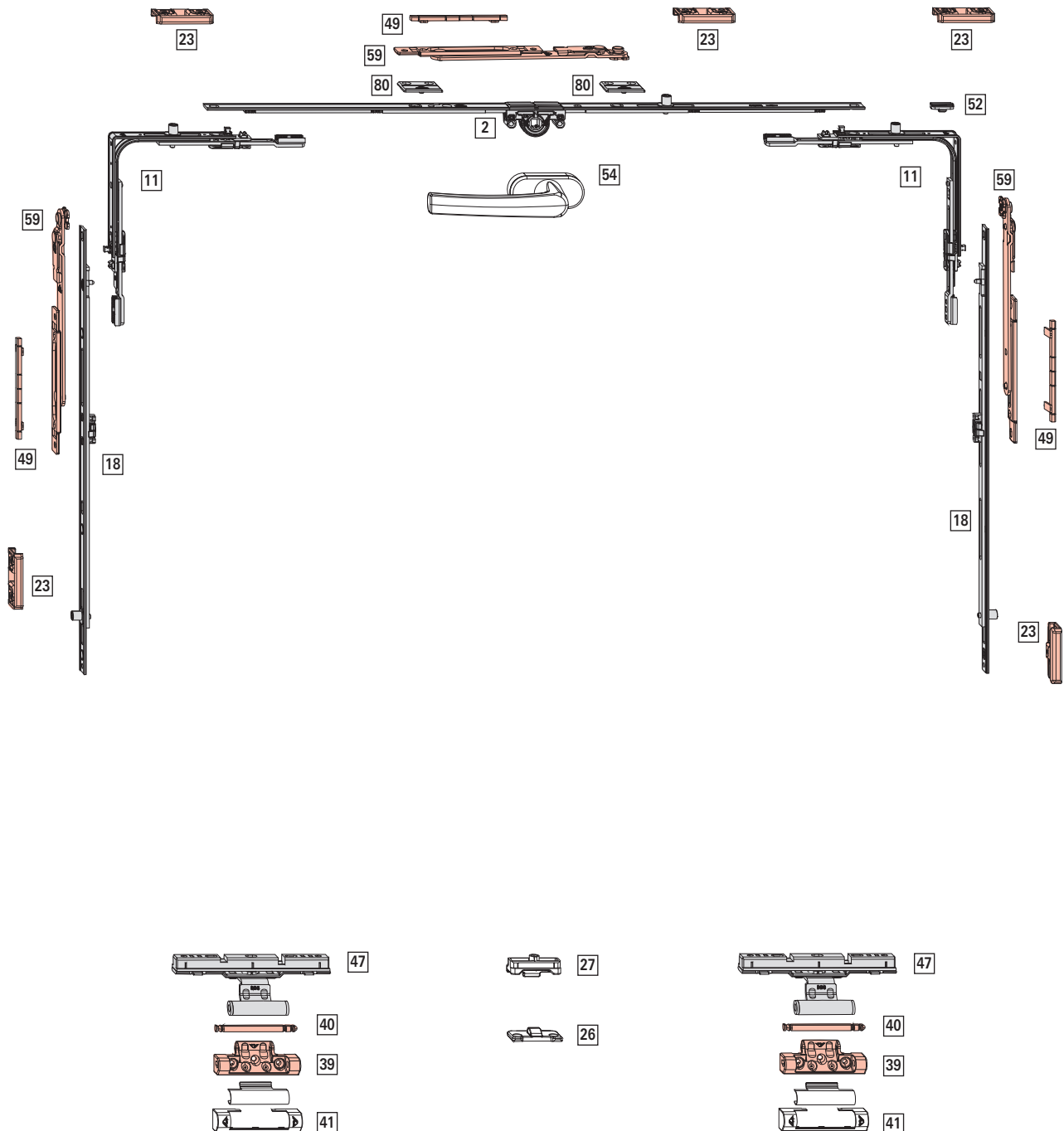
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3.1.2.4 Tilt-Only hardware

3.1.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[47]	Turn-Only / Tilt-Only rebate hinge → <i>from page 554</i>
[49]	Support plate → <i>from page 669</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 630</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	450 – 2400 mm
	Sash rebate height (SRH)	290 – 1200 mm
	Sash weight (S.kg)	Max. 80 kg



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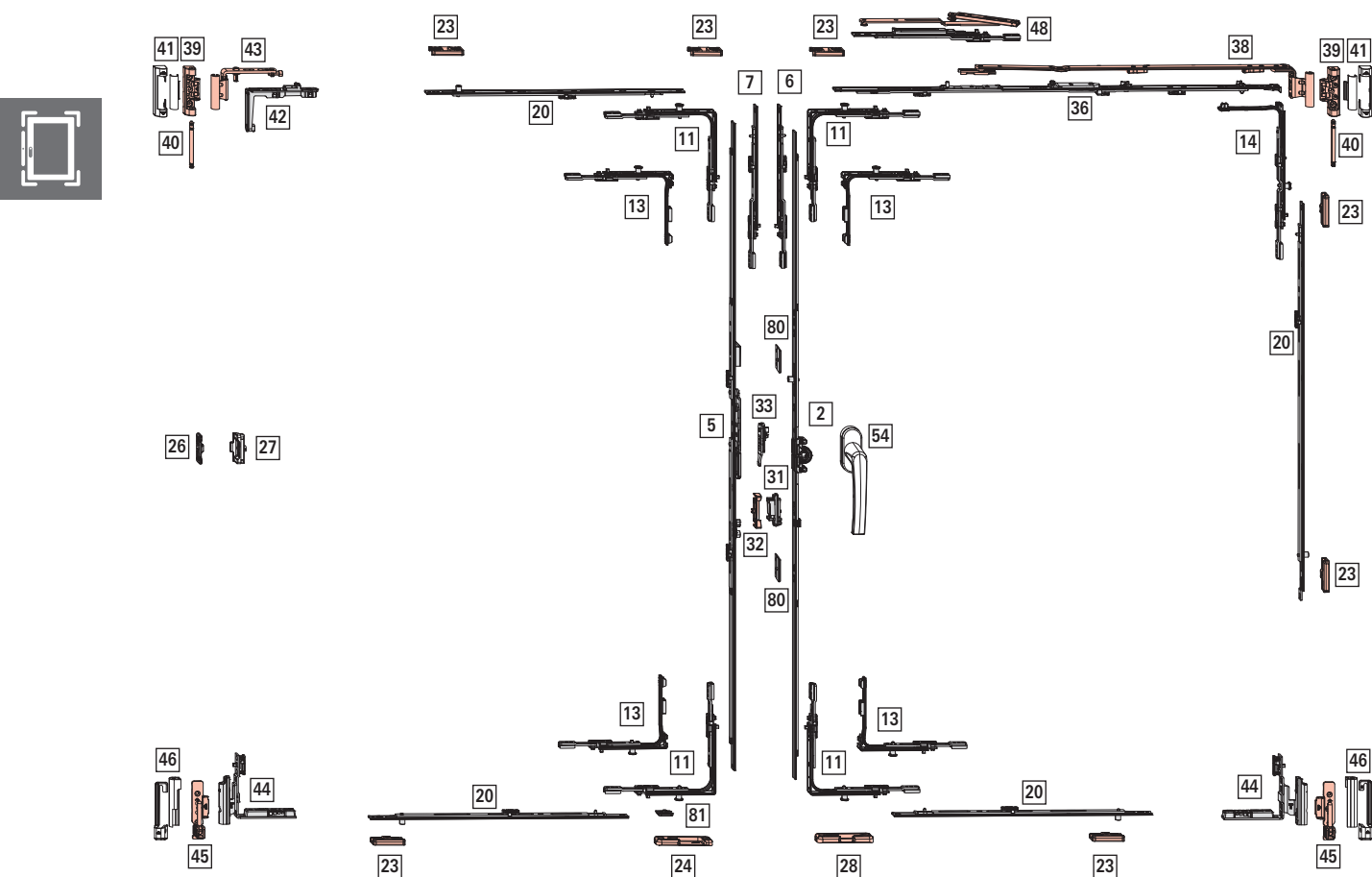
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3.1.2.5 Floating-mullion hardware – standard

3.1.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 548</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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3.1.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

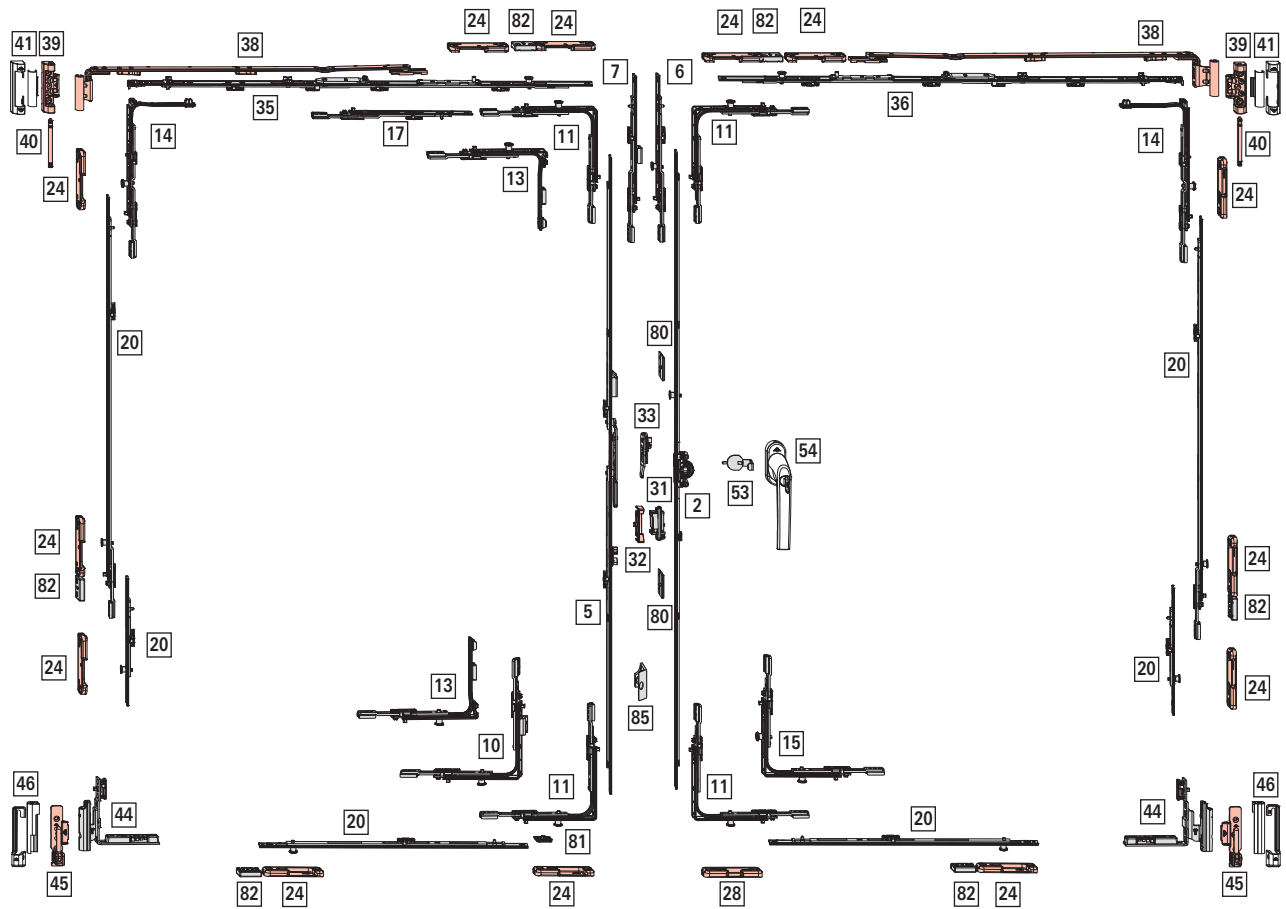
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3.1.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	490 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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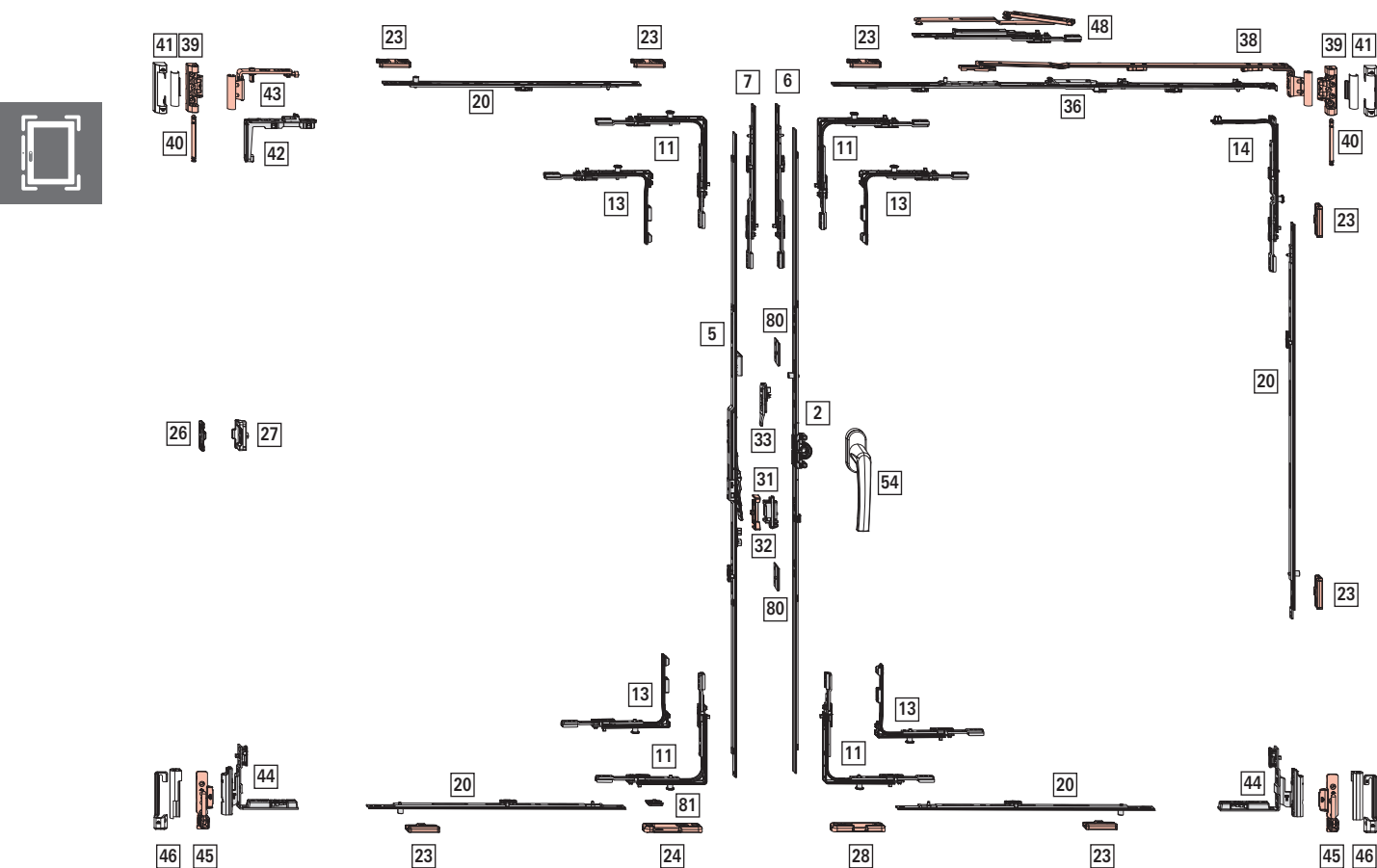
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3.1.2.6 Floating-mullion hardware – Plus

3.1.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 548</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

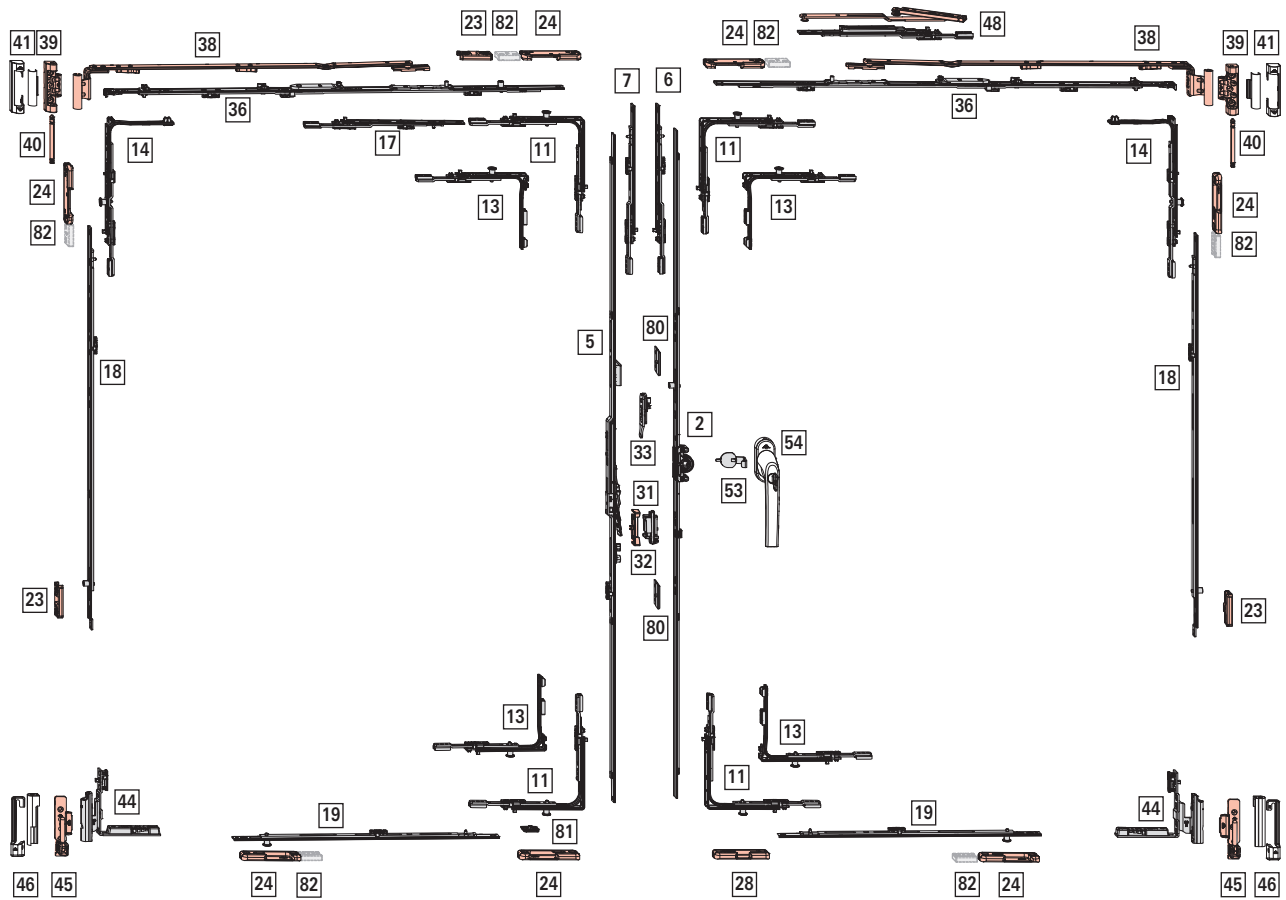
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3.1.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, basic security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

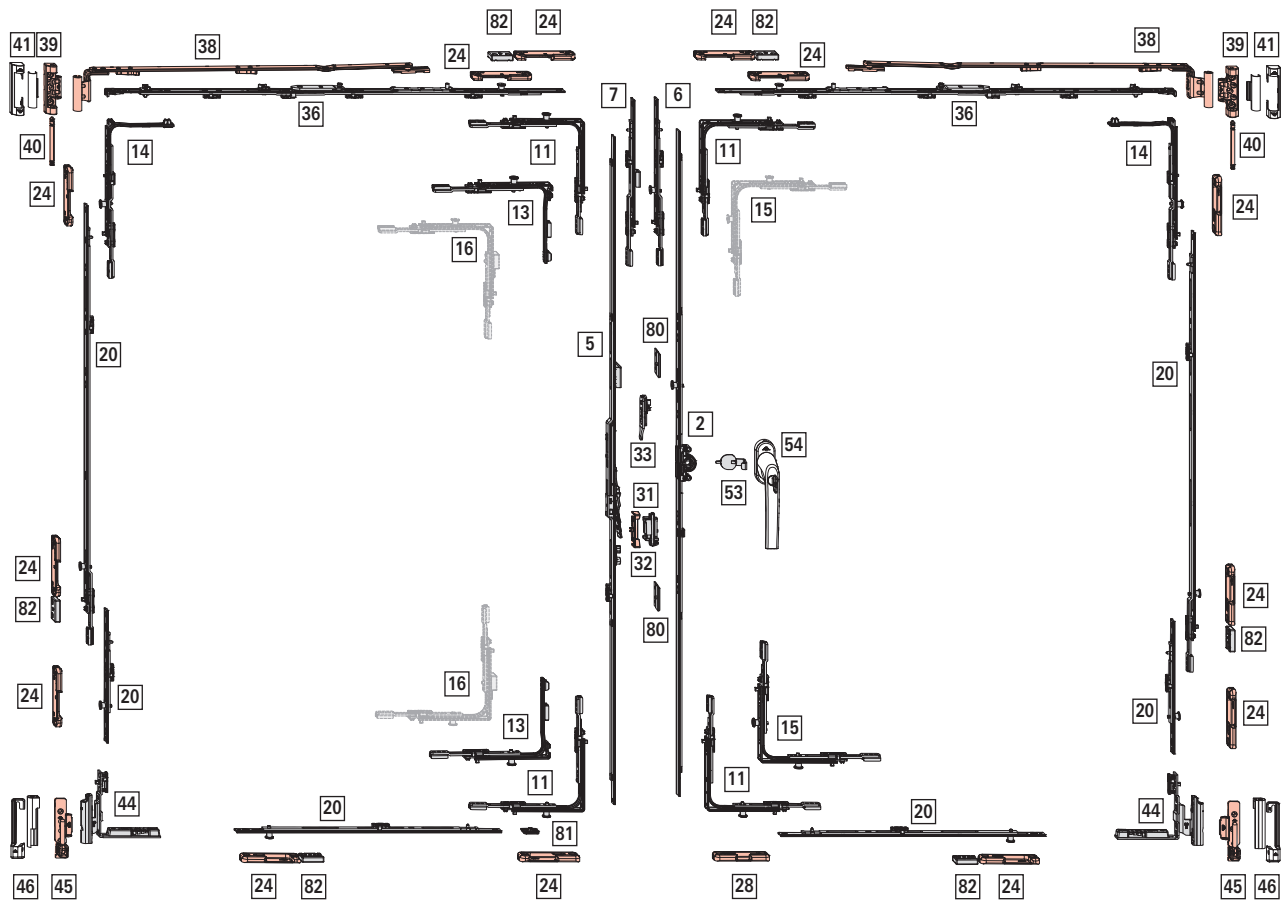
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3.1.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[20]	Multipart centre lock – security, horizontal and vertical → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 525</i>
[36]	Stay guide, security → <i>from page 524</i>
[38]	Stay arm → <i>from page 529</i>
[39]	Stay bearing → <i>from page 557</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[41]	Sash stay cover caps → <i>from page 564</i>
[44]	Rebate corner hinge → <i>from page 592</i>
[45]	Pivot rest → <i>from page 598</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 606</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	400 – 1400 mm
	Sash rebate height (SRH)	510 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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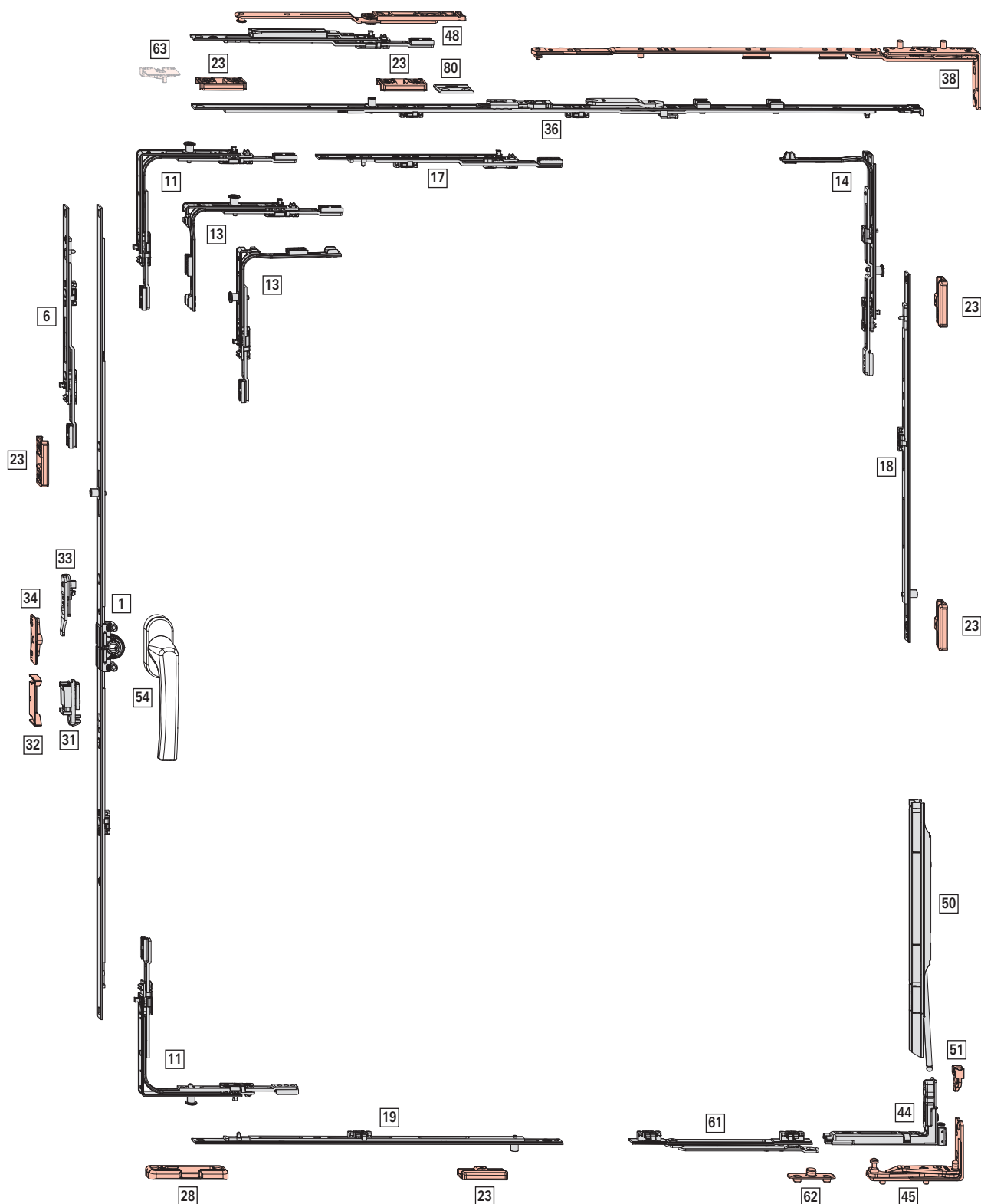
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3.2 Hinge side C

3.2.1 T&T espagnolette, VT – fixed handle height

3.2.1.1 Tilt&Turn hardware

3.2.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[49]	Support plate → <i>from page 669</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	340 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	285 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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3.2.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	285 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

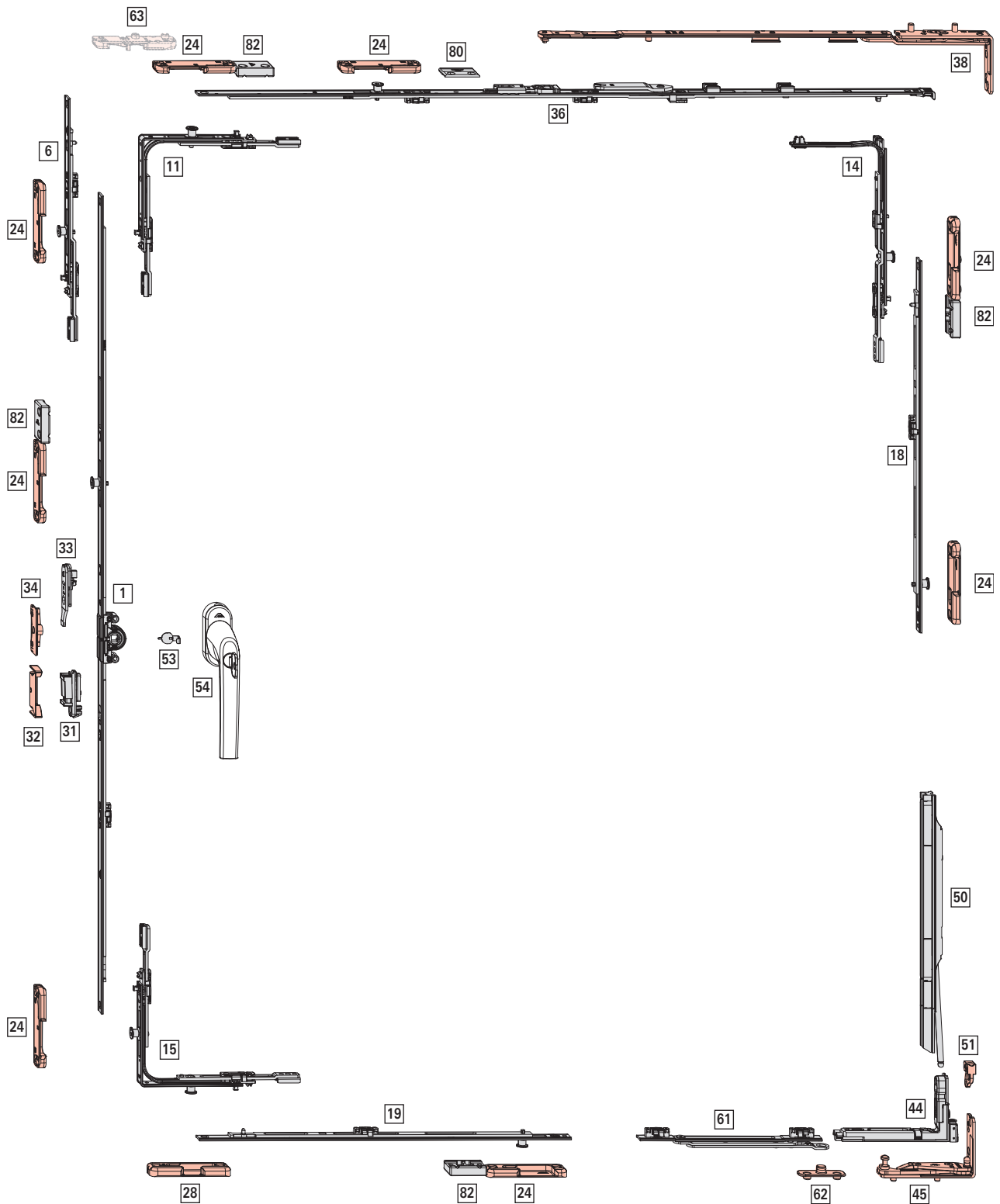
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3.2.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	601 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

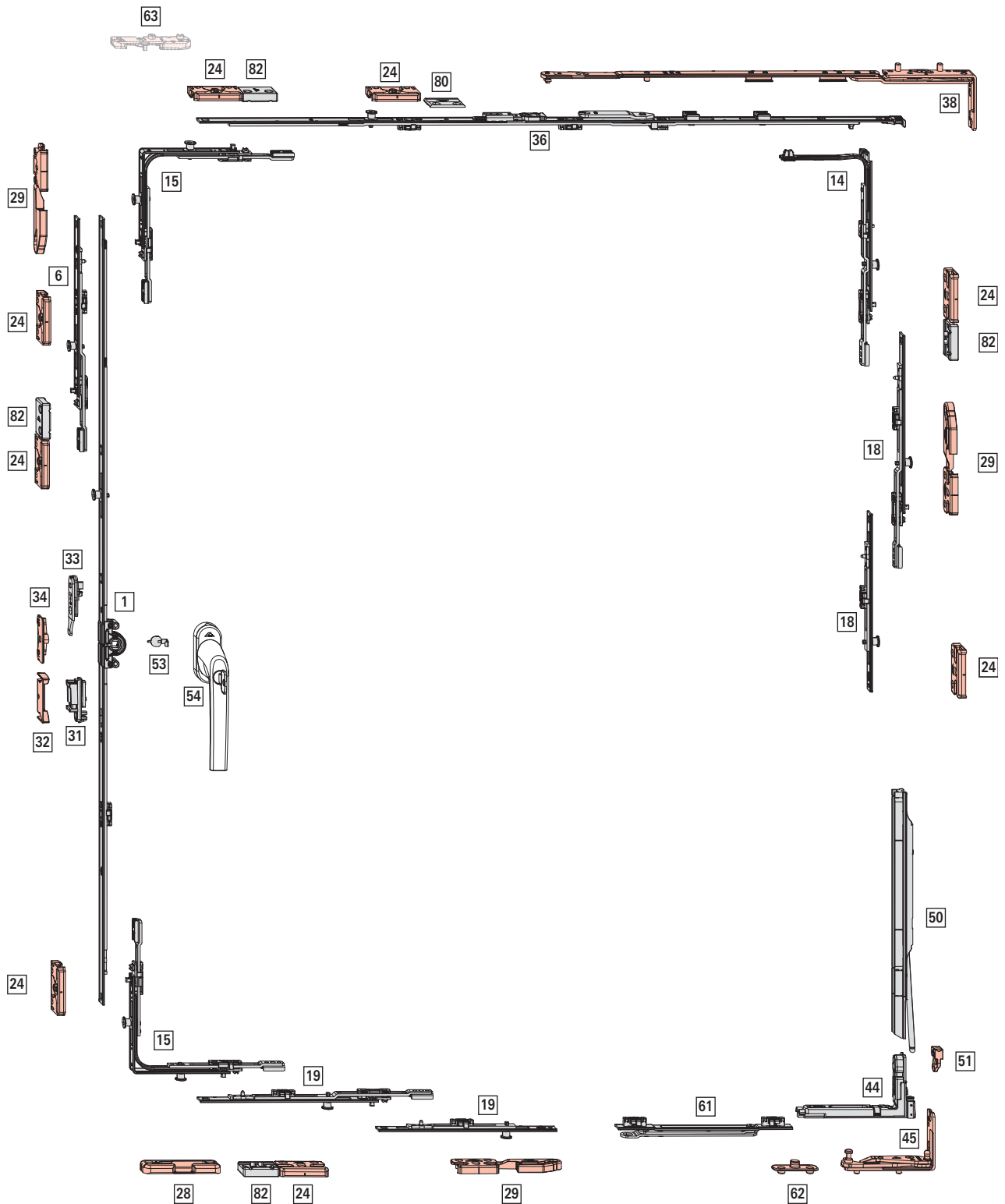
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3.2.1.1.4 TiltSafe RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[29]	Security striker for tilt ventilation → <i>from page 618</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	601 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

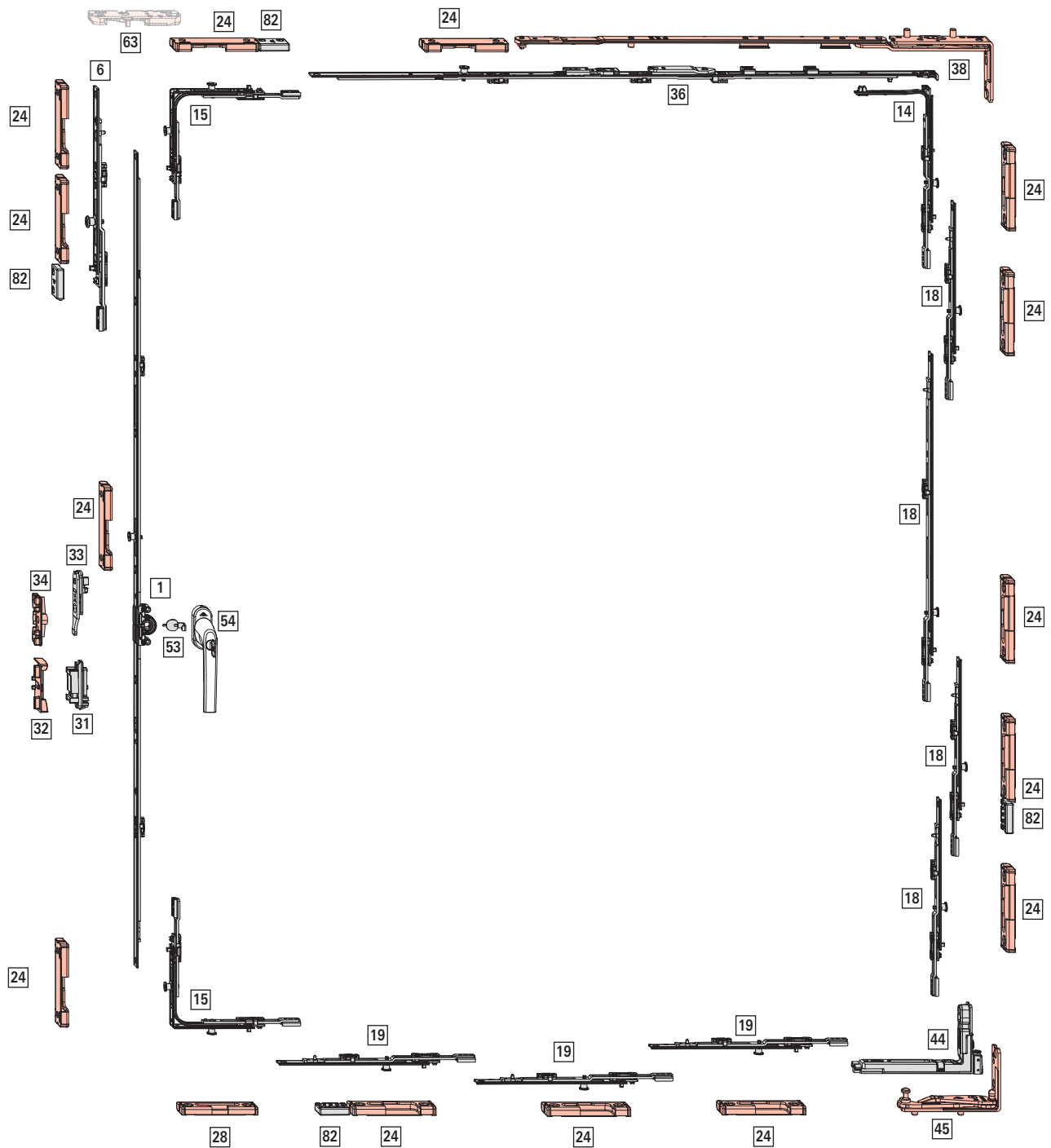
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3.2.1.1.5 RC 3





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent → <i>from page 650</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 3		
	Sash rebate width (SRW)	490 – 1000 mm
	Sash rebate height (SRH)	601 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg



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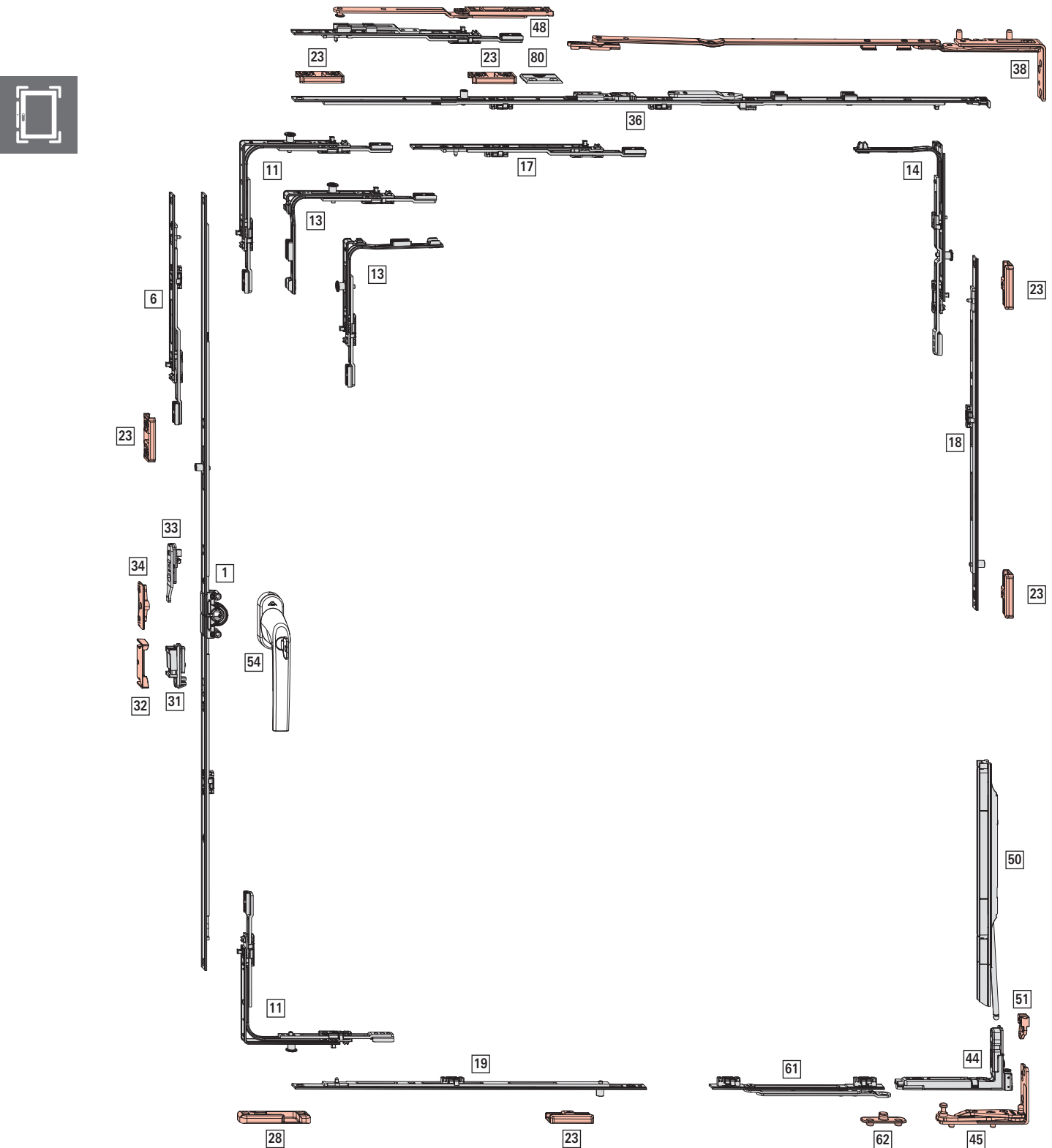
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3.2.1.2 TiltFirst hardware

3.2.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm, TiltFirst → <i>from page 538</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
	Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
	Alternatively: turn restrictor 355C → <i>from page 655</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	340 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	285 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

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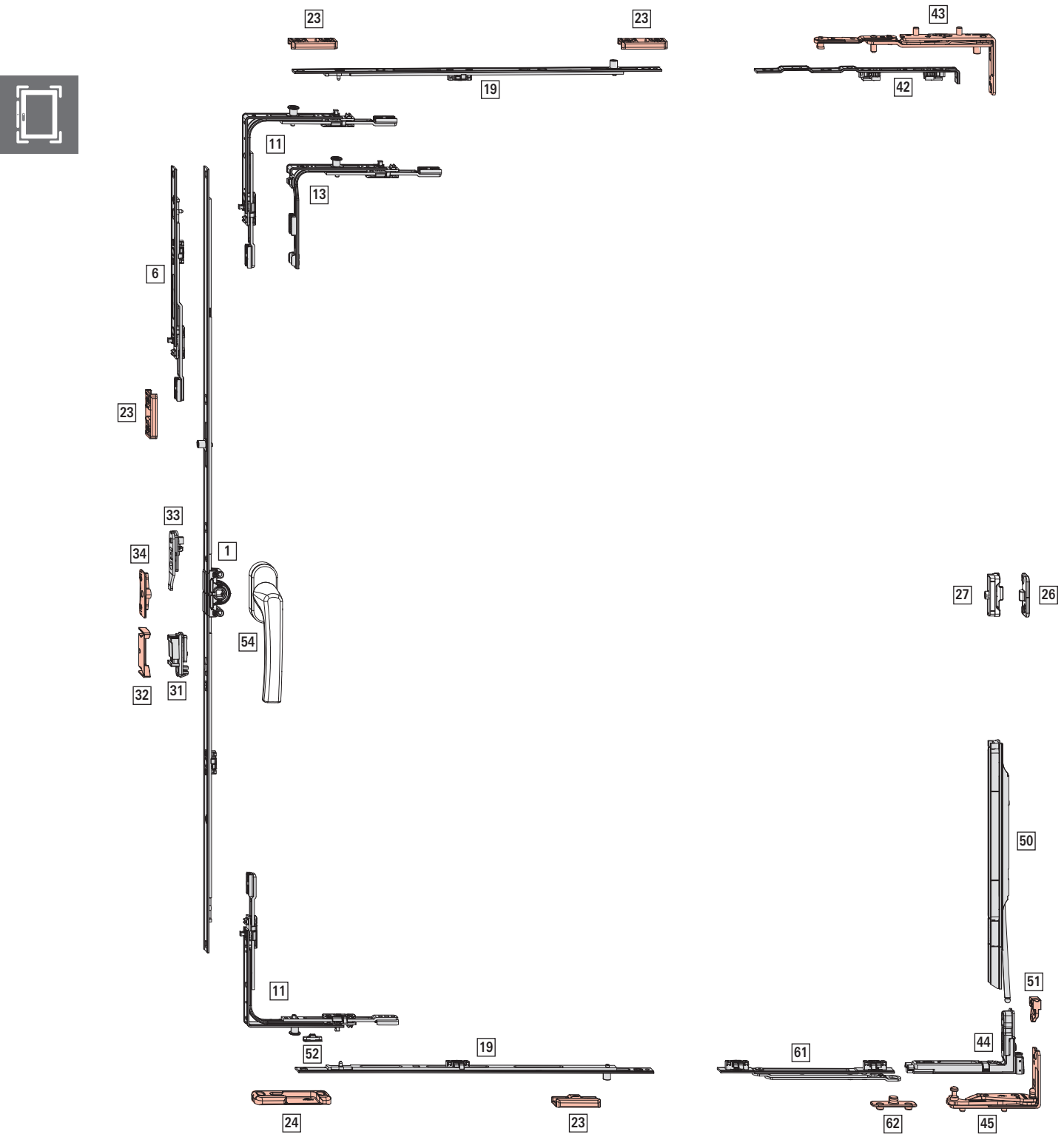


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3.2.1.3 Turn-Only hardware

3.2.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	285 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

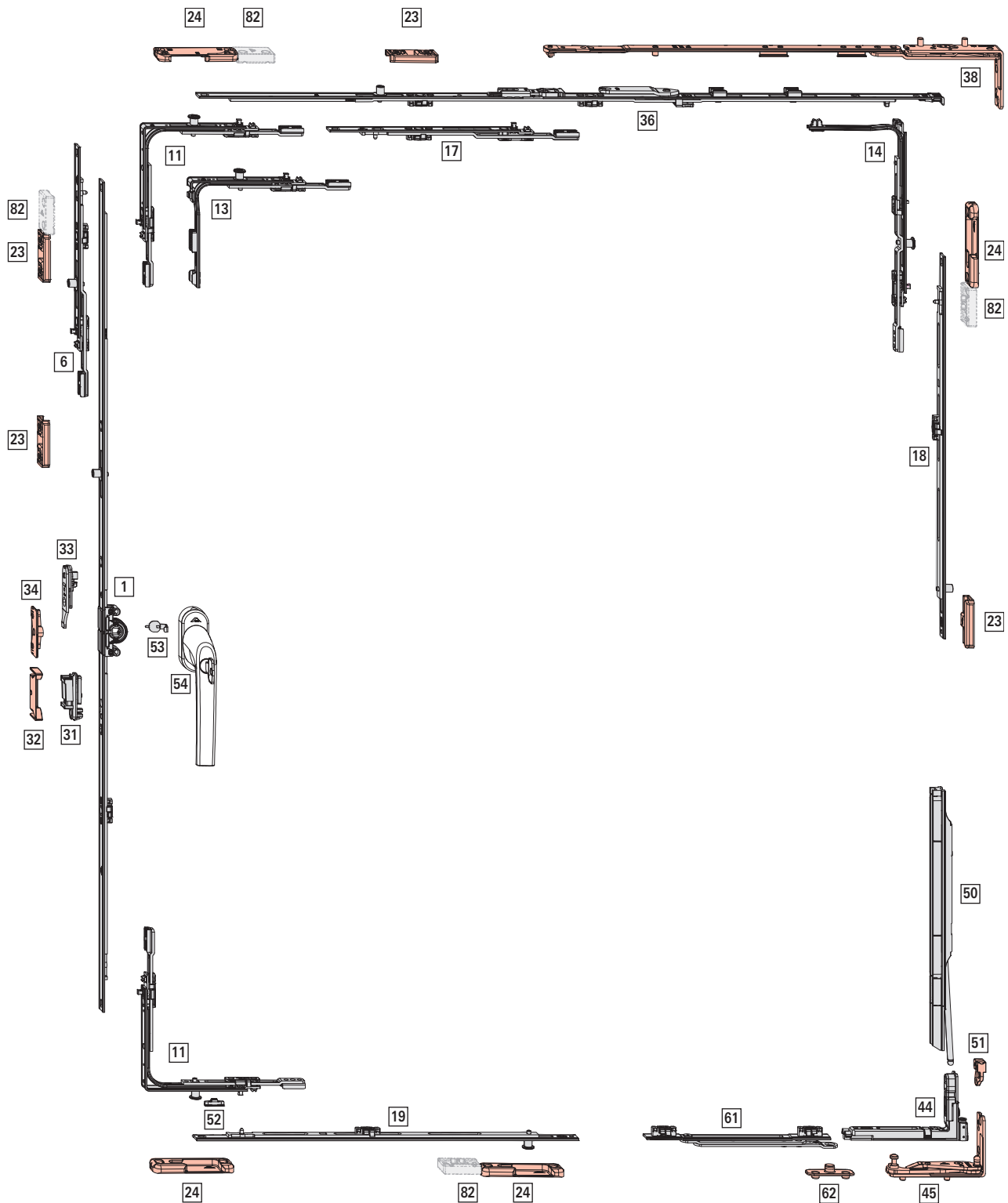
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3.2.1.3.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	285 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

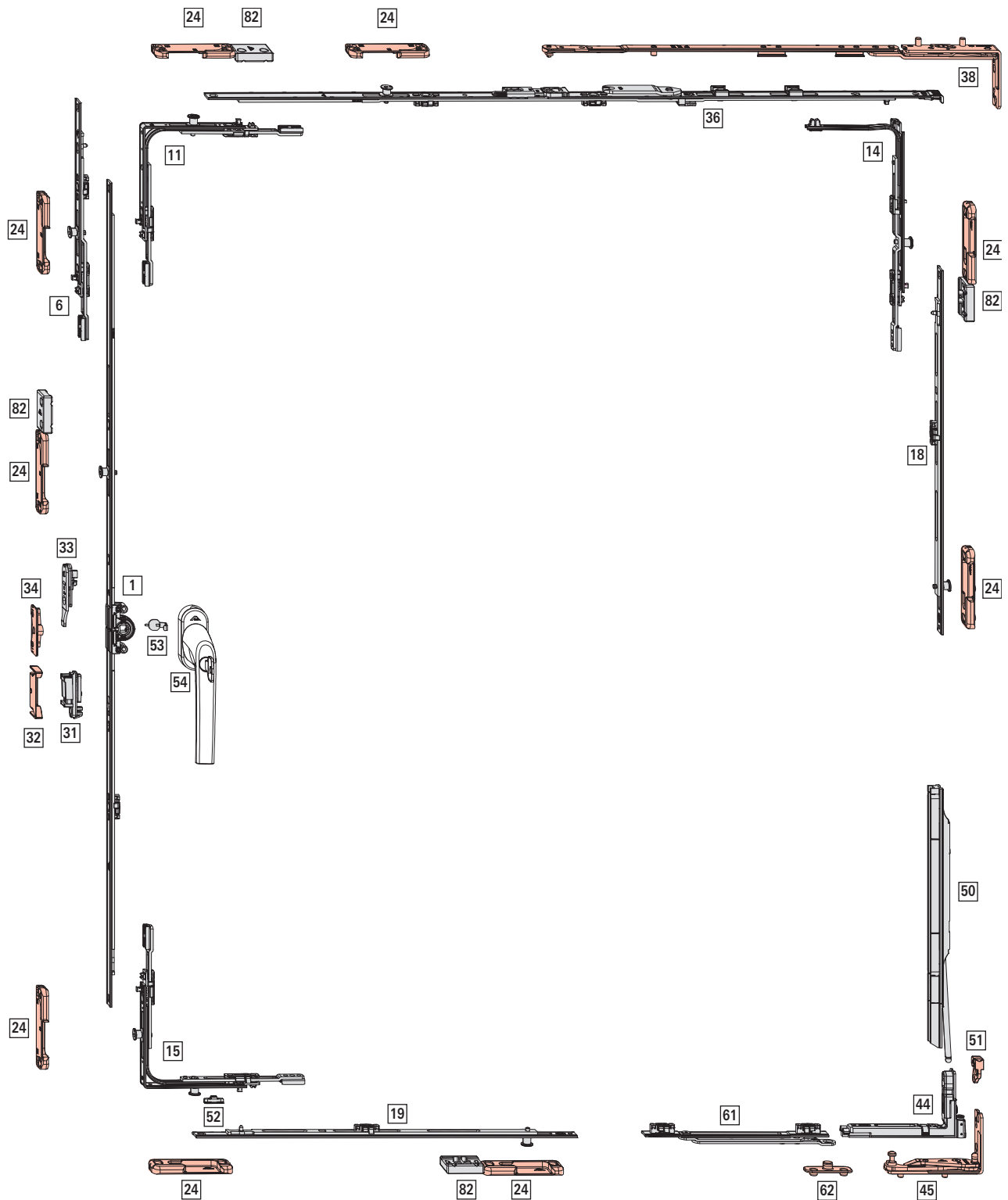
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3.2.1.3.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

		RC 2 / RC 2 N	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	601 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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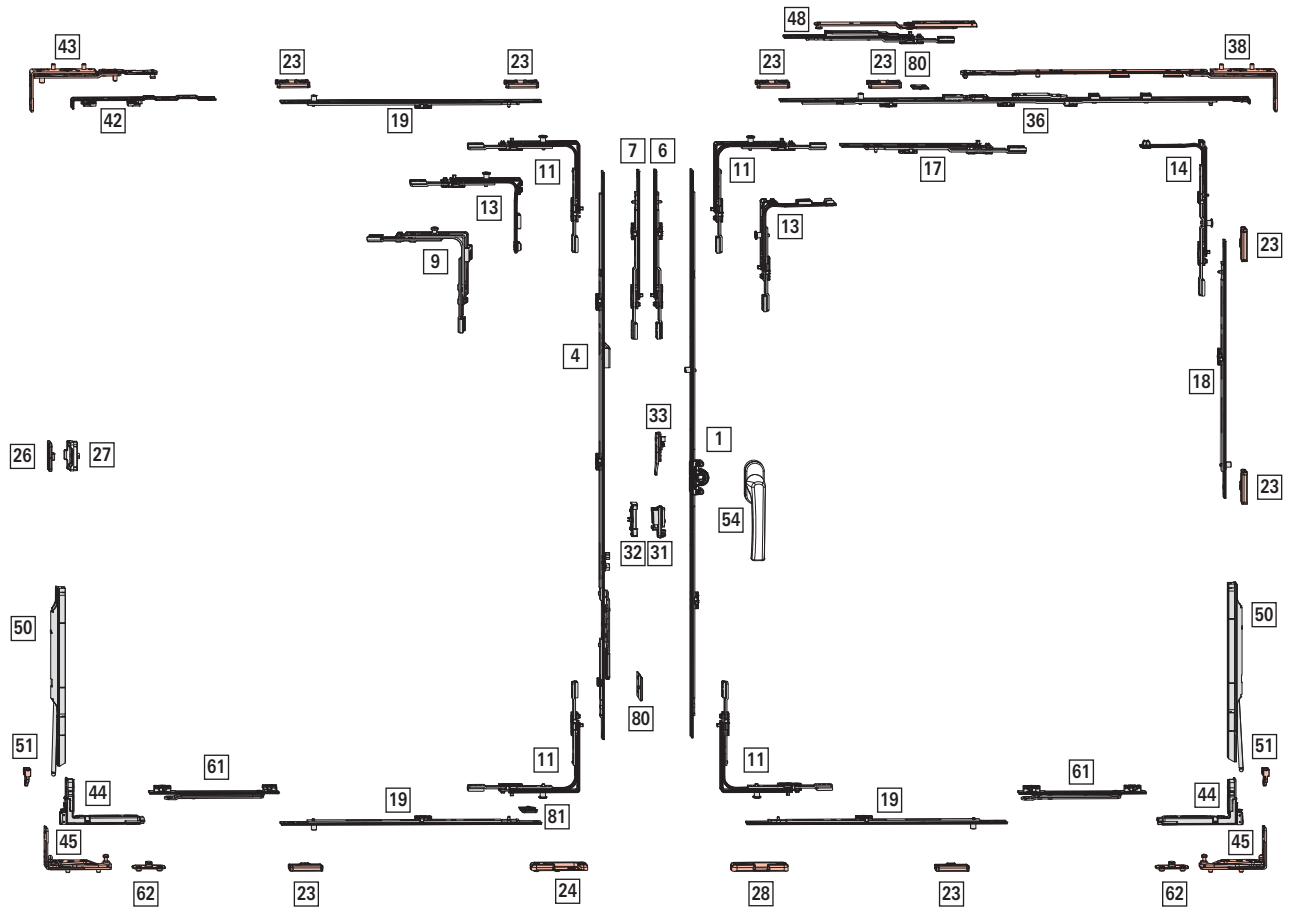
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3.2.1.4 Floating-mullion hardware – standard

3.2.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	430 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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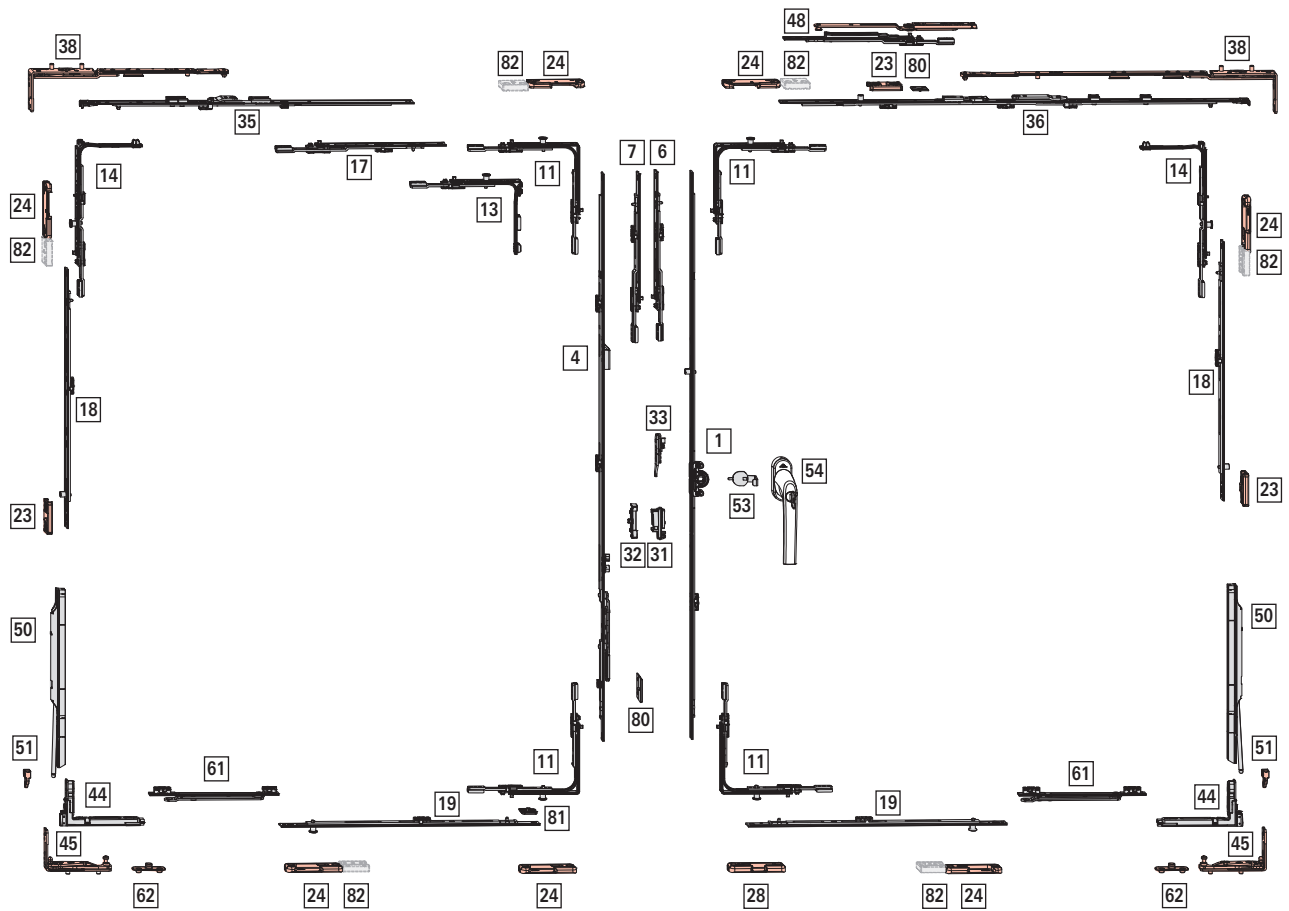
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3.2.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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T&T espagnolette, VT – fixed handle height

3.2.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Optional: retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	601 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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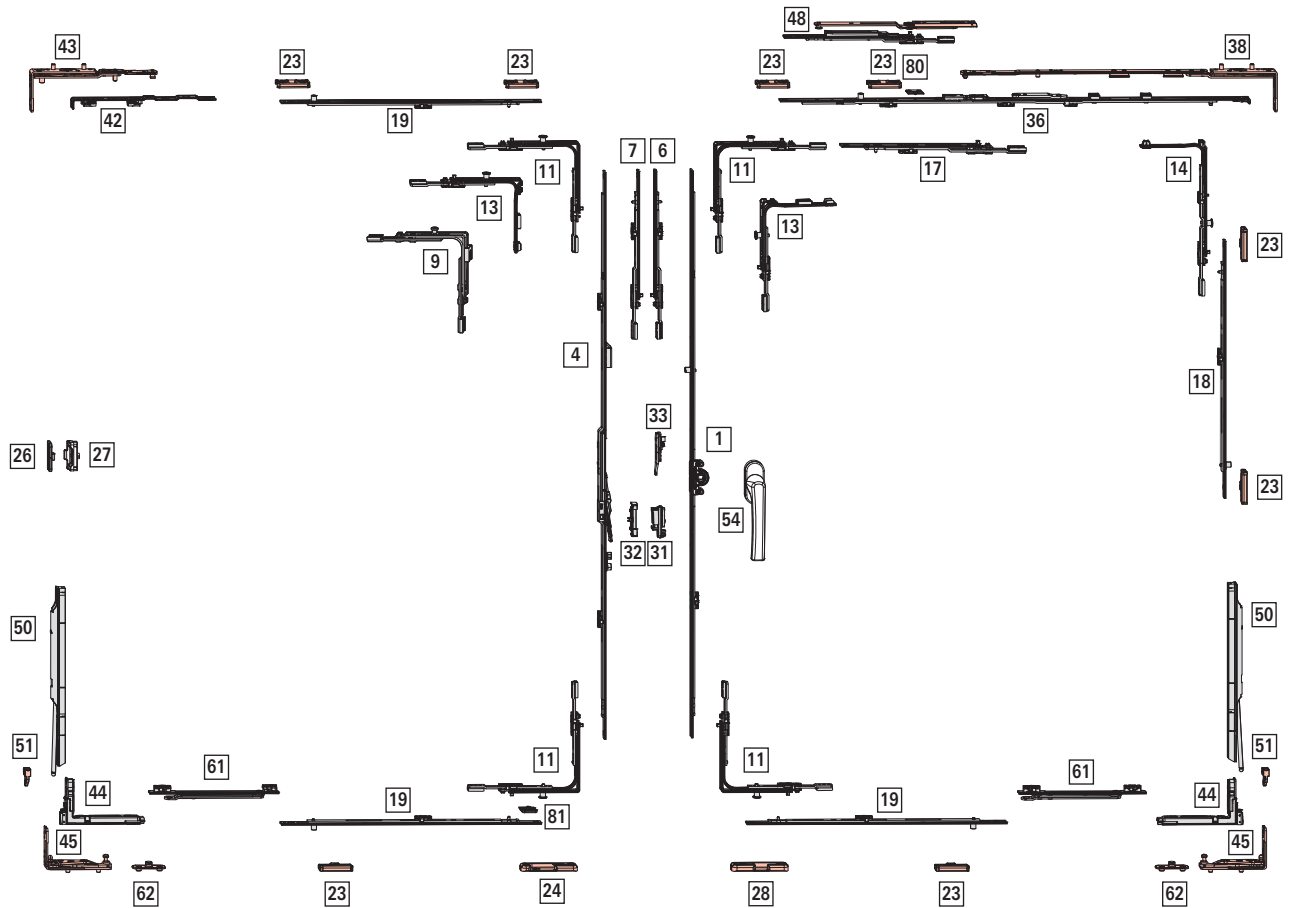
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3.2.1.5 Floating-mullion hardware – Plus

3.2.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	430 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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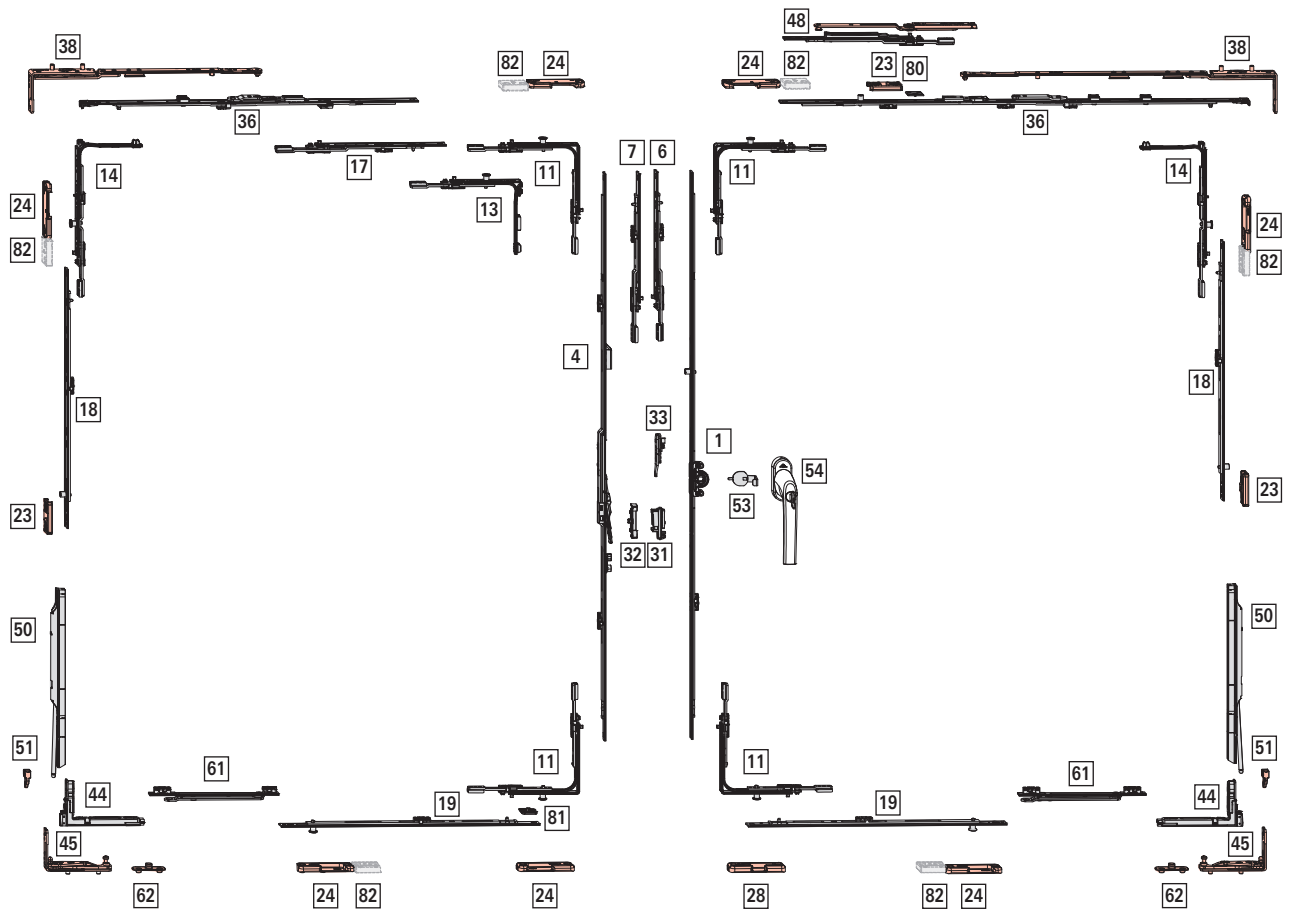
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3.2.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	430 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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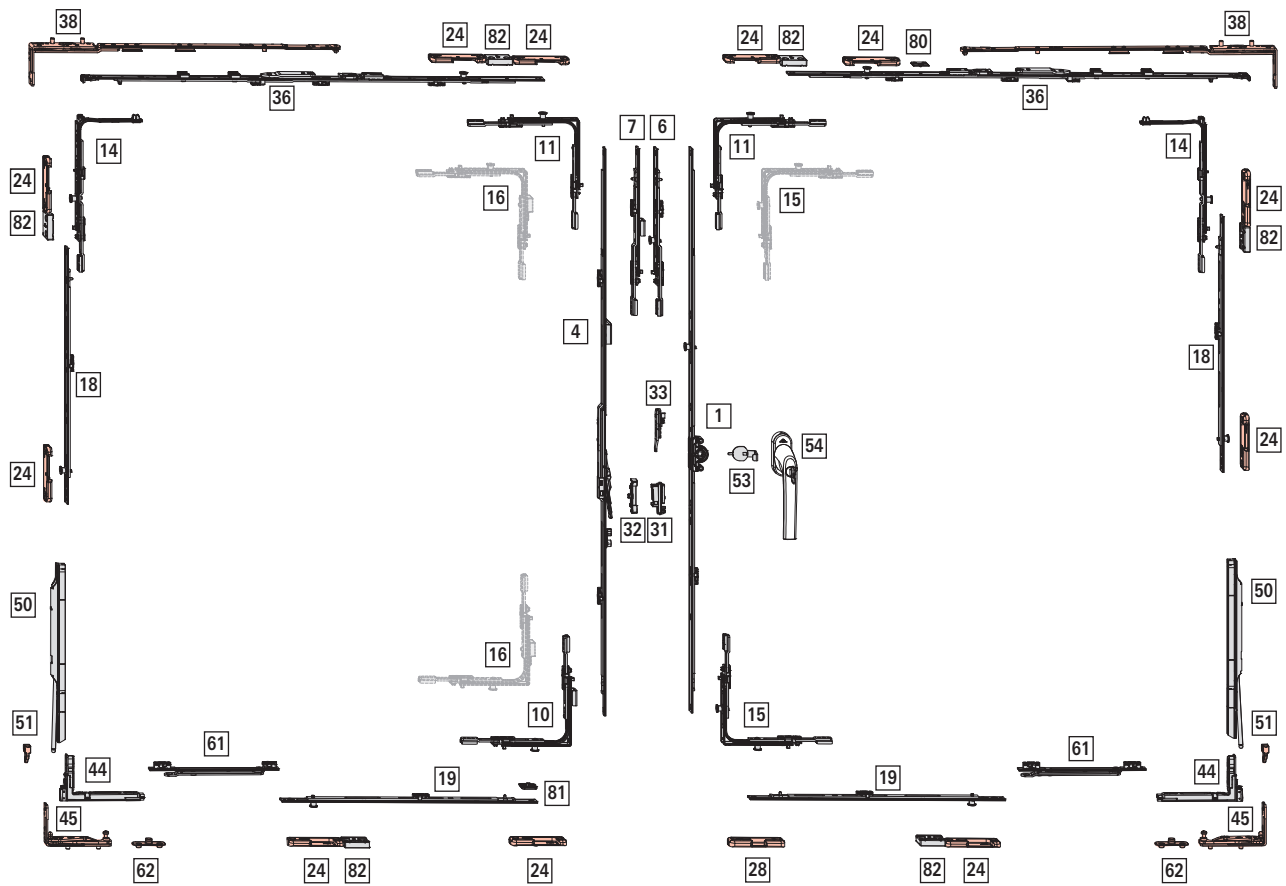
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3.2.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

		RC 2 / RC 2 N	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	601 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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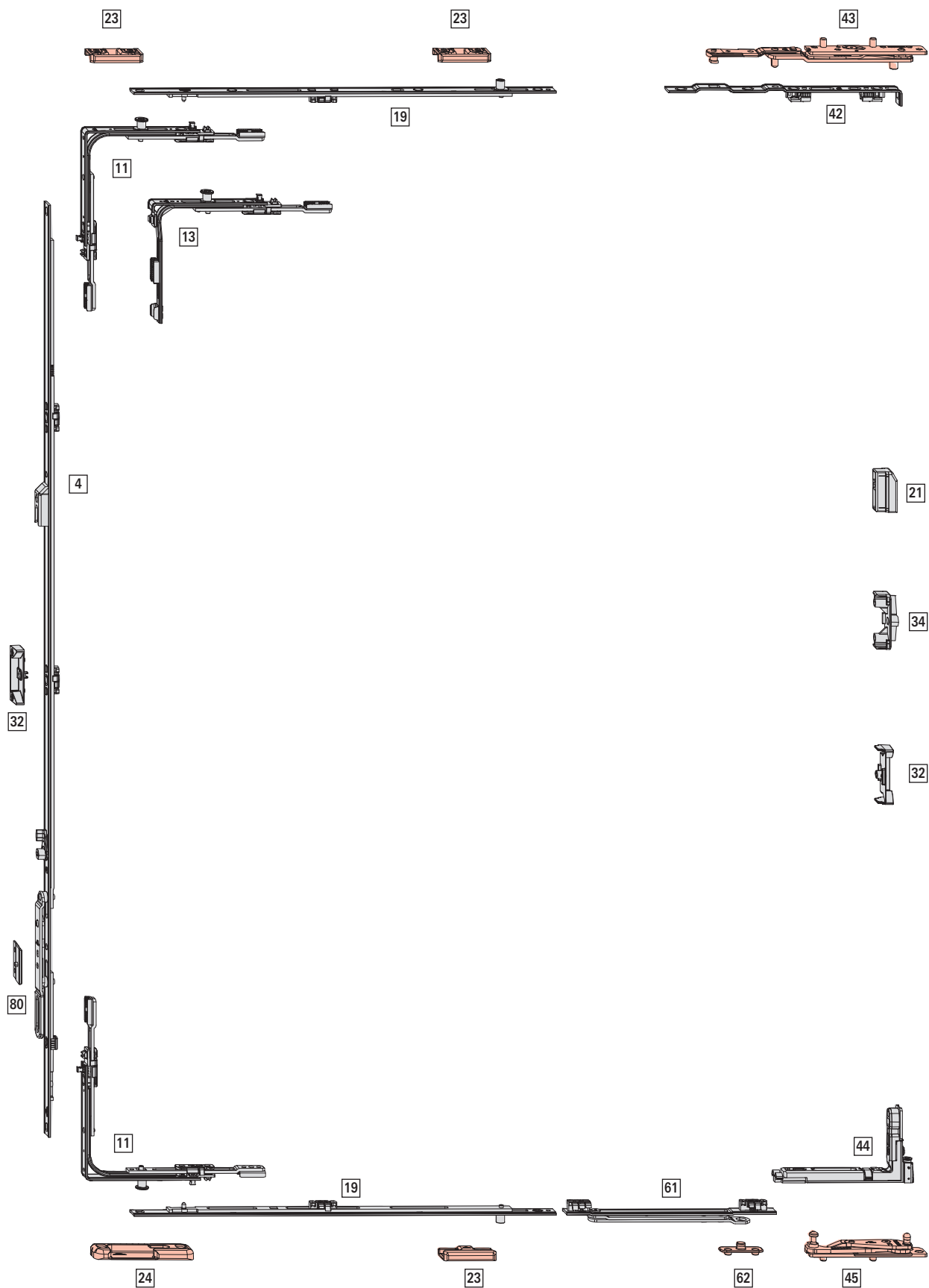
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3.2.1.6 Floating-mullion hardware – centre sash (triple-sashed windows)

3.2.1.6.1 Standard – basic security





Item	Description
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[21]	Striker for opposite hardware groove → <i>from page 620</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security
		Without load transfer
	Sash rebate width (SRW)	370 – 1200 mm
	Sash rebate height (SRH)	430 – 1800 mm
	Sash weight (S.kg)	Max. 100 kg



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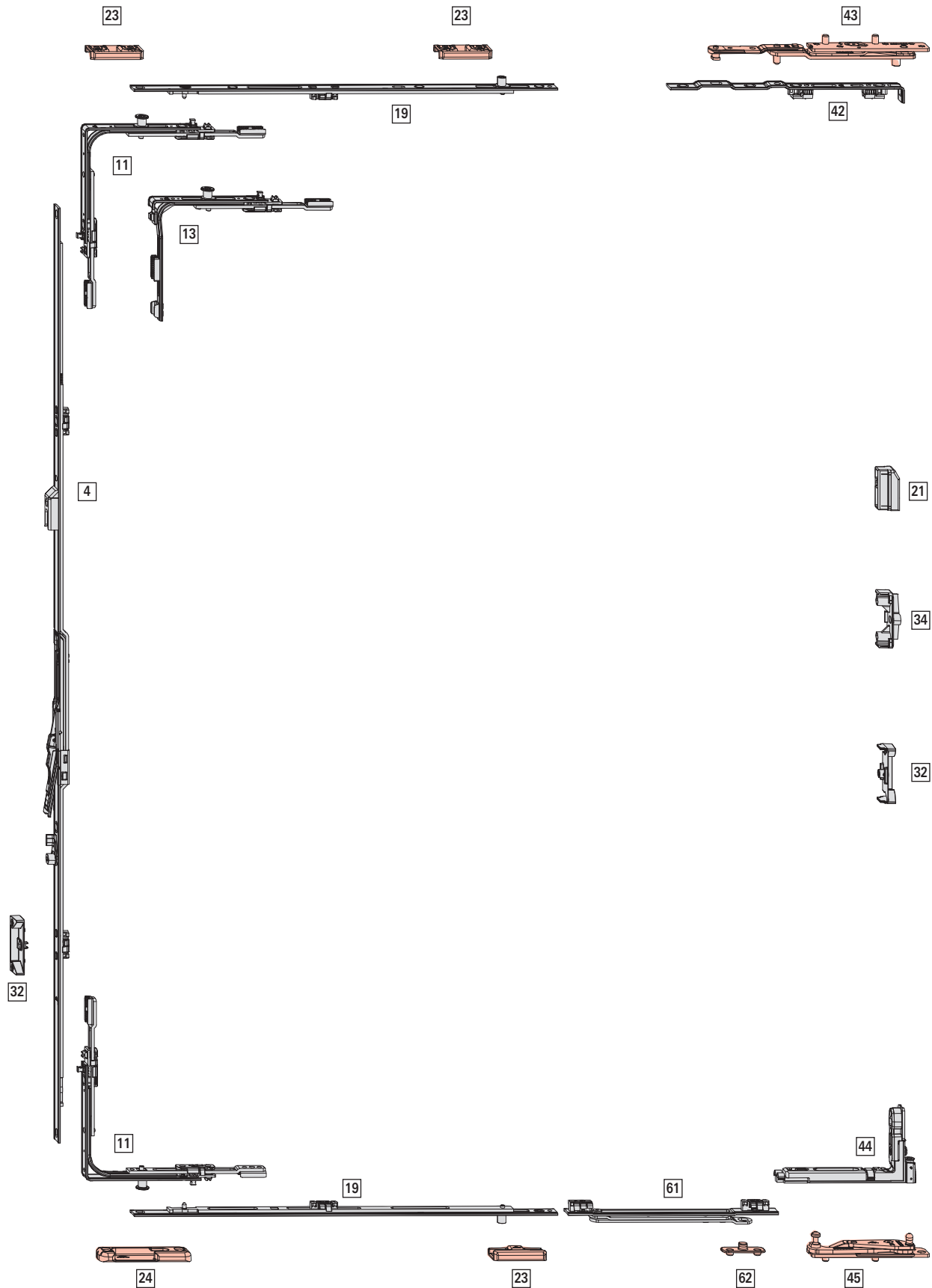
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3.2.1.6.2 Plus – basic security





Item	Description
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[21]	Striker for opposite hardware groove → <i>from page 620</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>

Application range

Basic security		
Without load transfer		
	Sash rebate width (SRW)	370 – 1200 mm
	Sash rebate height (SRH)	430 – 1800 mm
	Sash weight (S.kg)	Max. 100 kg



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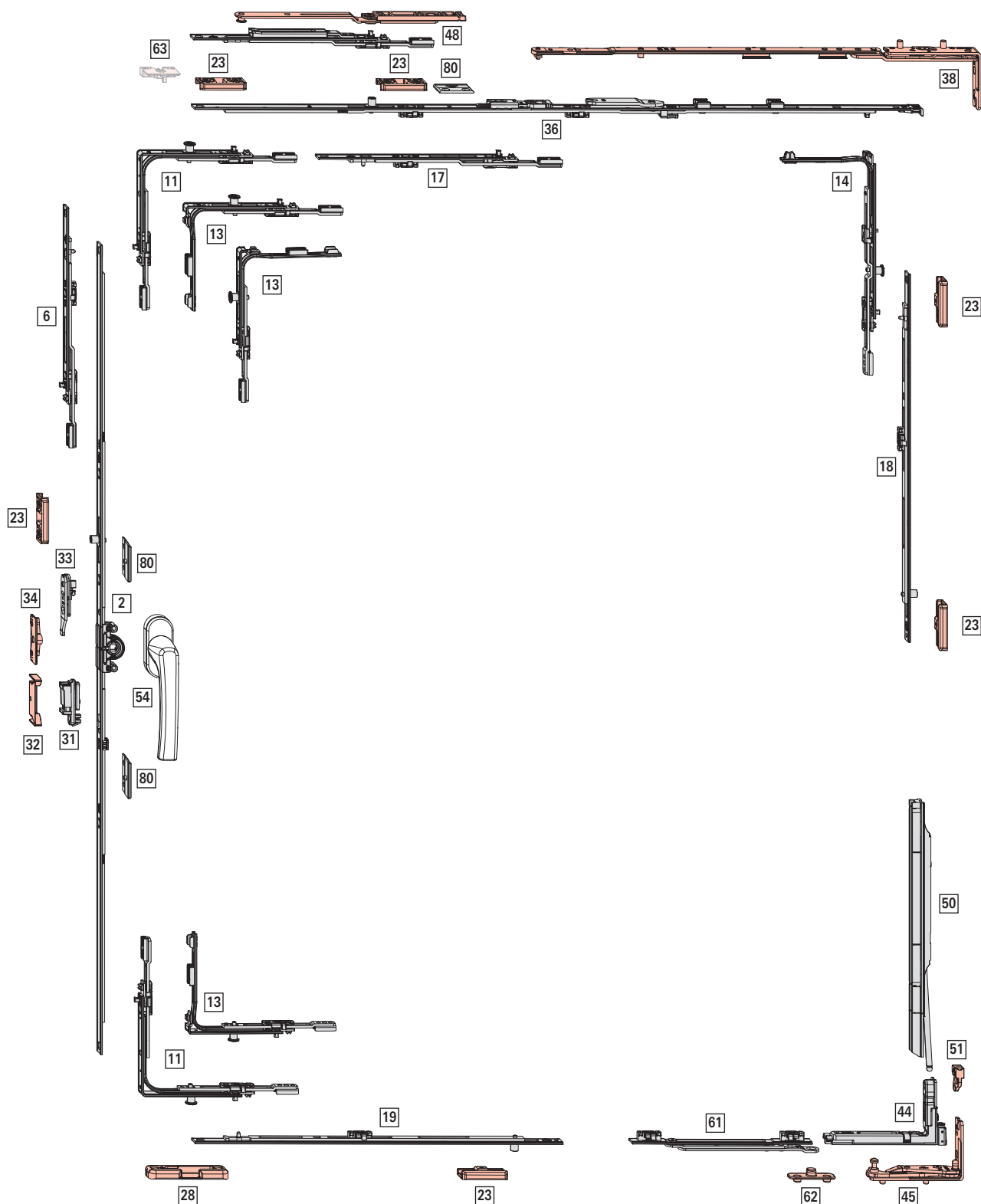


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3.2.2 T&T espagnolette – centred / variable handle height

3.2.2.1 Tilt&Turn hardware

3.2.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Additional stay arm → <i>from page 628</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	340 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	310 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

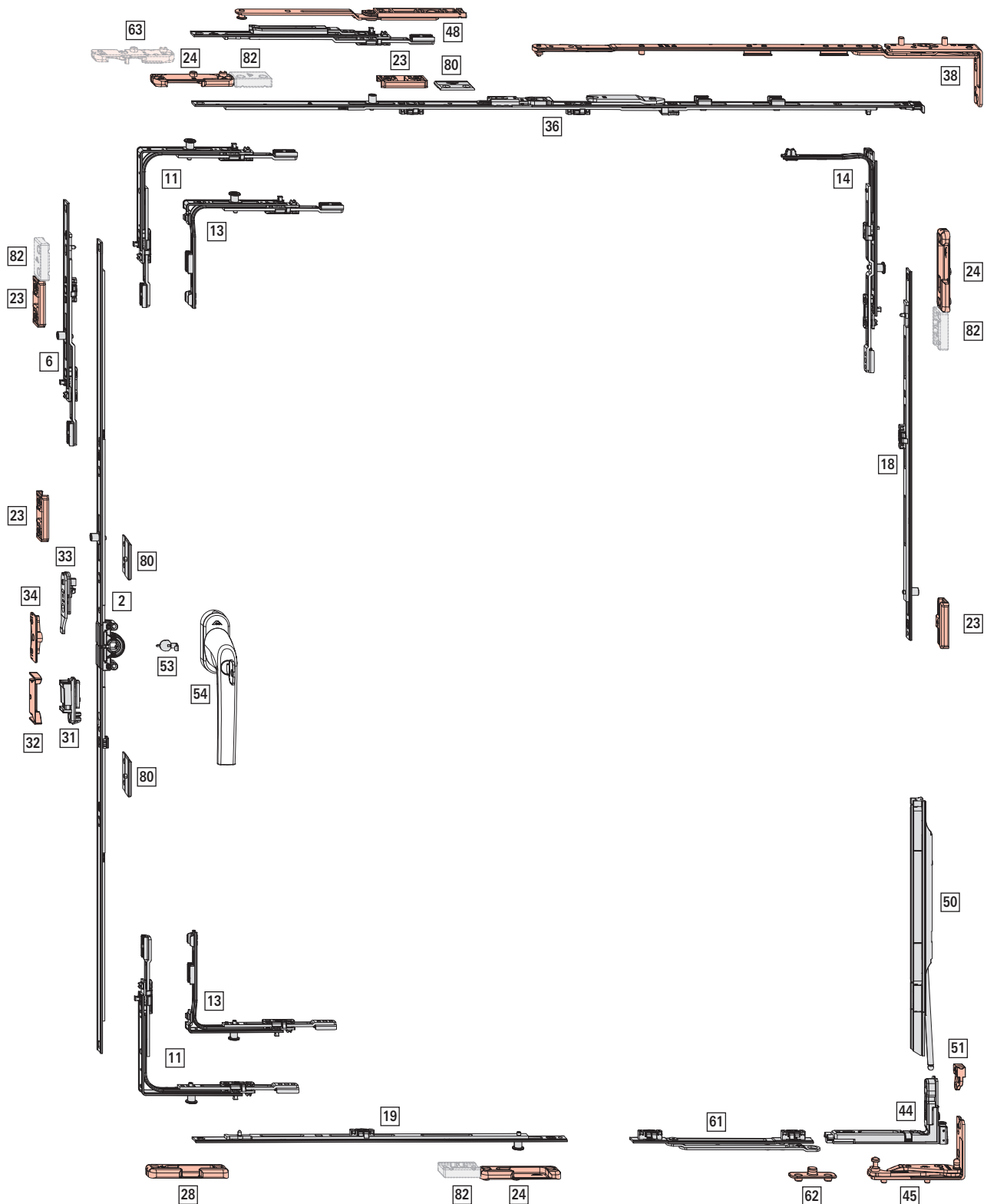
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3.2.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

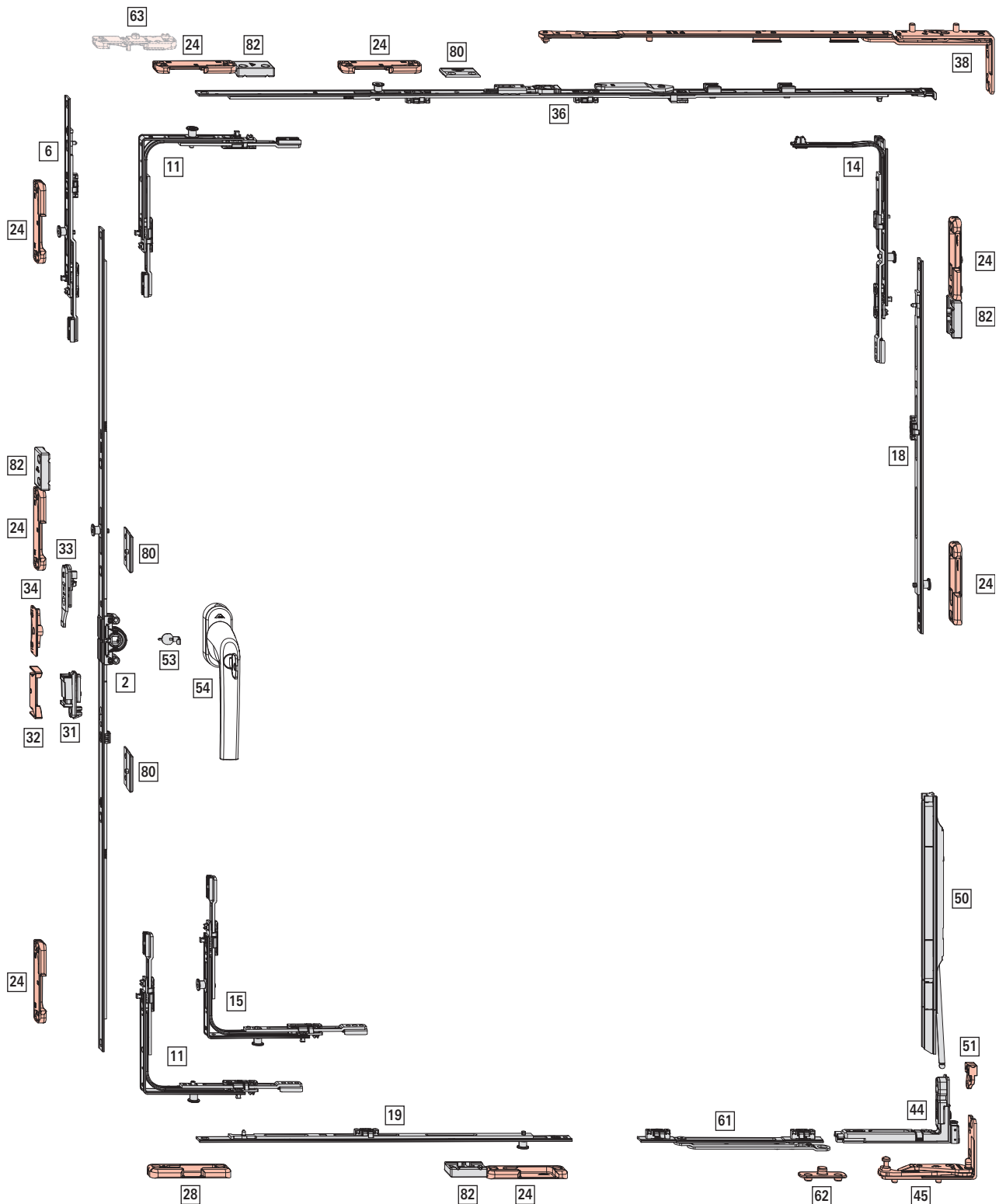
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3.2.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

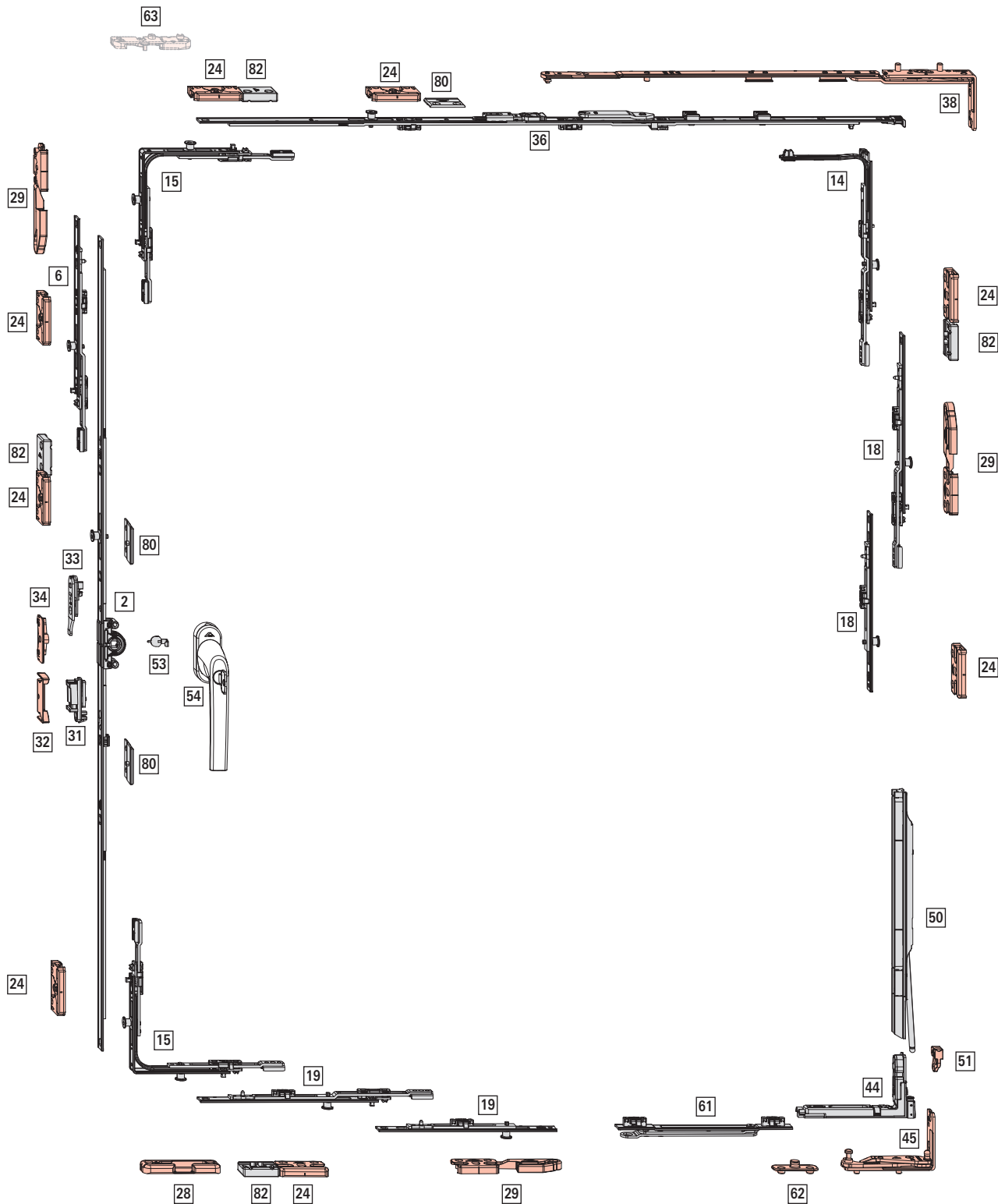
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3.2.2.1.4 TiltSafe RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[29]	Security striker for tilt ventilation → <i>from page 618</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

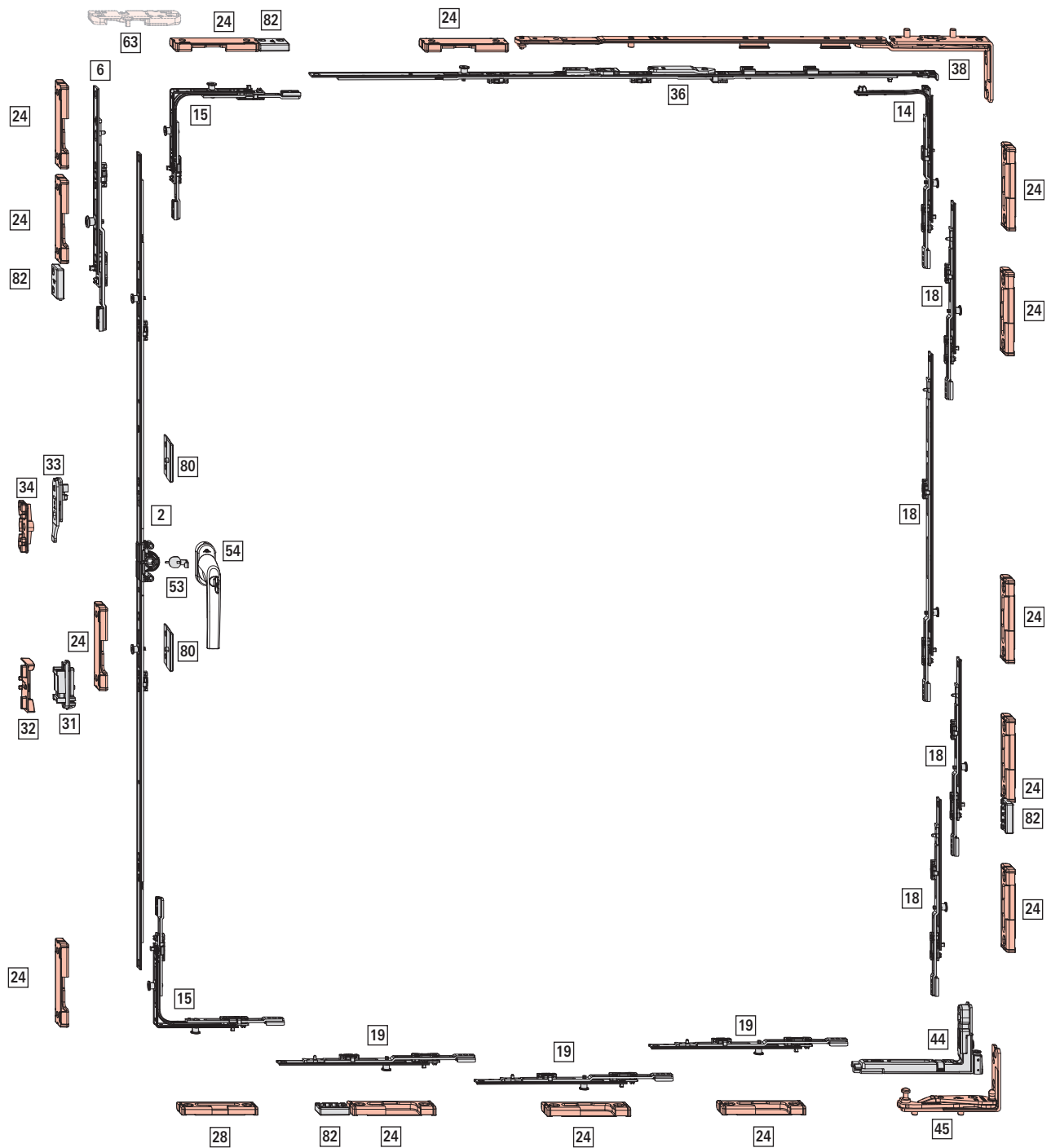
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3.2.2.1.5 RC 3





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 3		
	Sash rebate width (SRW)	490 – 1000 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg



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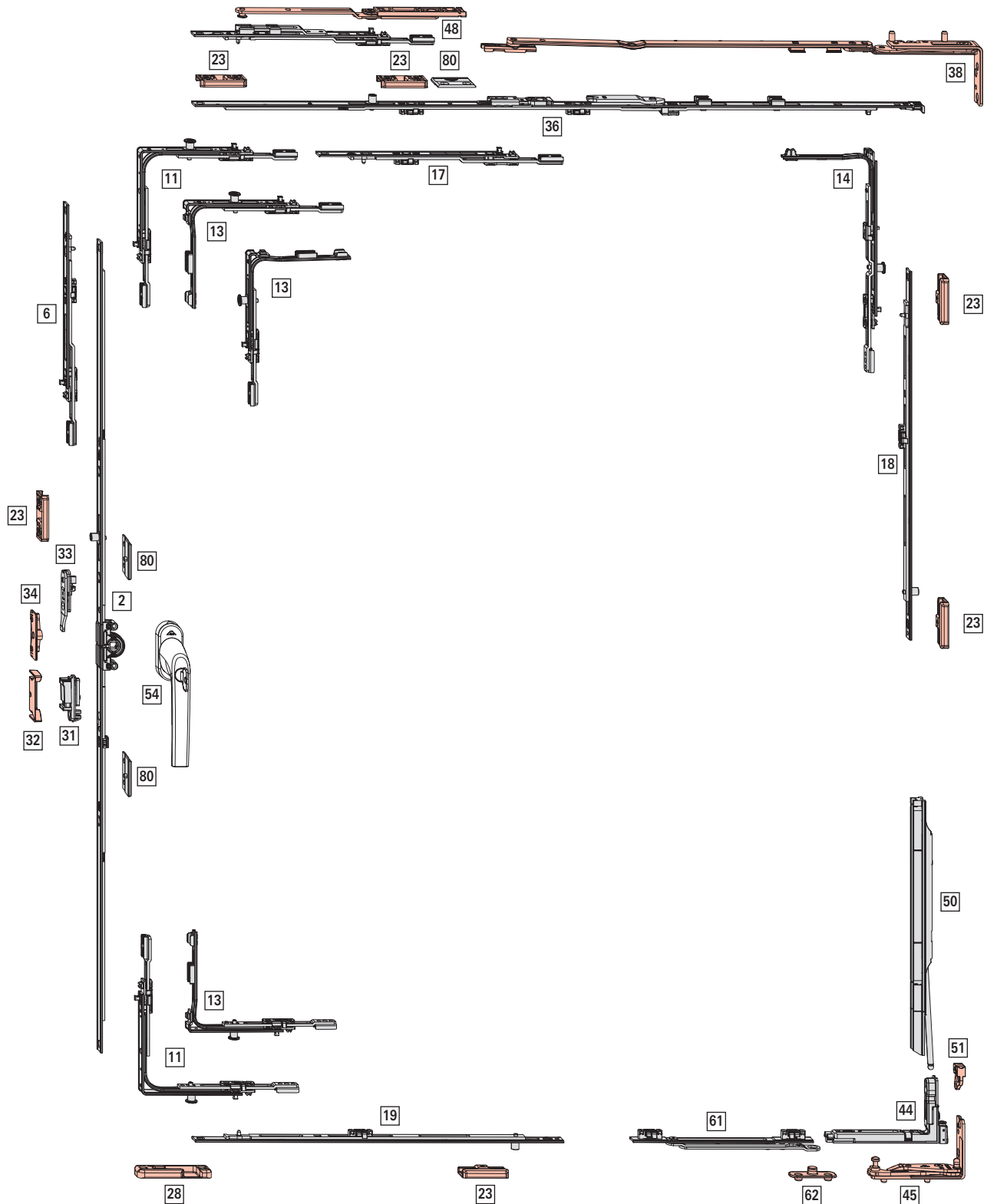
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3.2.2.2 TiltFirst hardware

3.2.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm, TiltFirst → <i>from page 538</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
	Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
	Alternatively: turn restrictor 355C → <i>from page 655</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	340 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	310 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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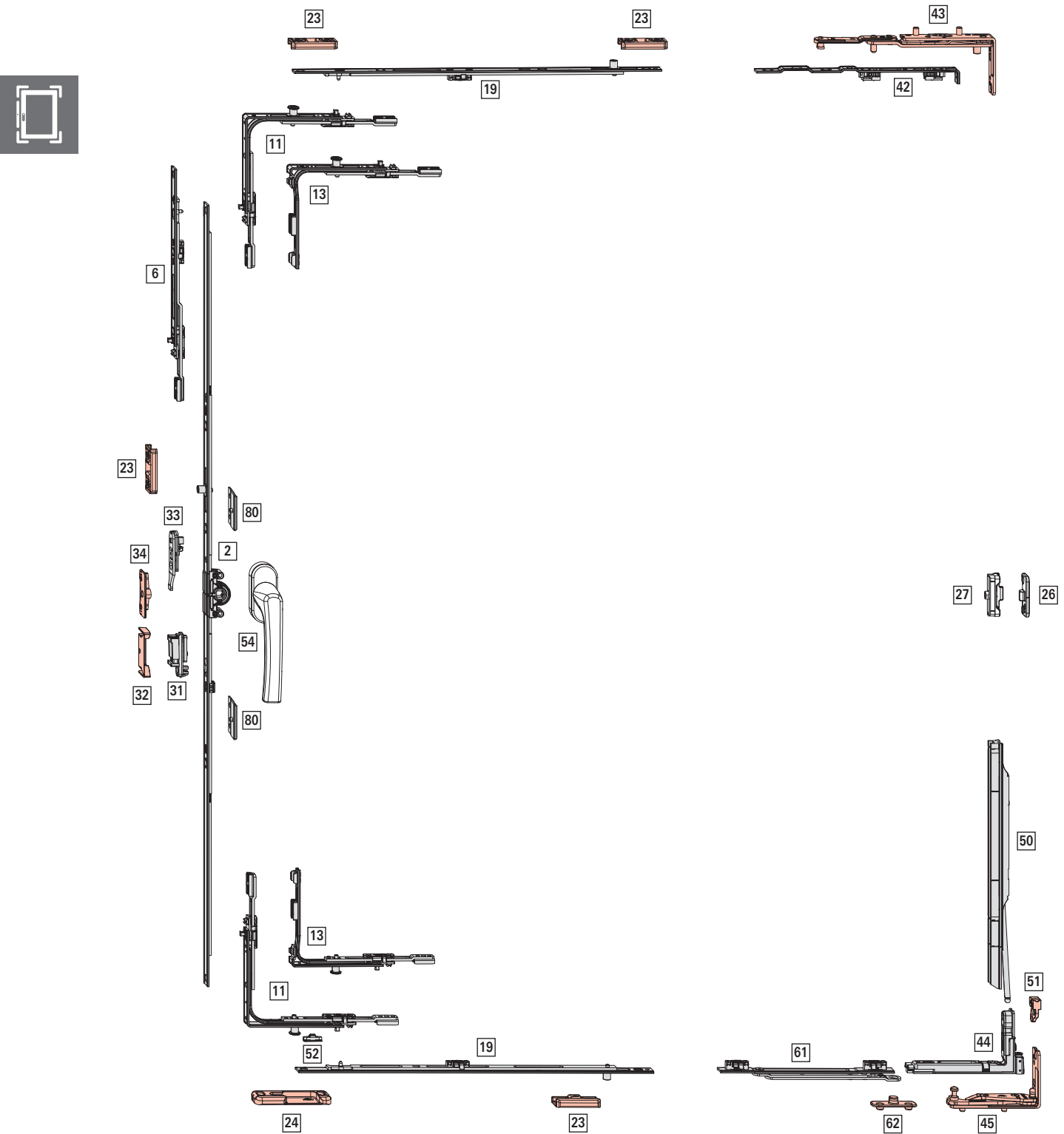


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3.2.2.3 Turn-Only hardware

3.2.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	310 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

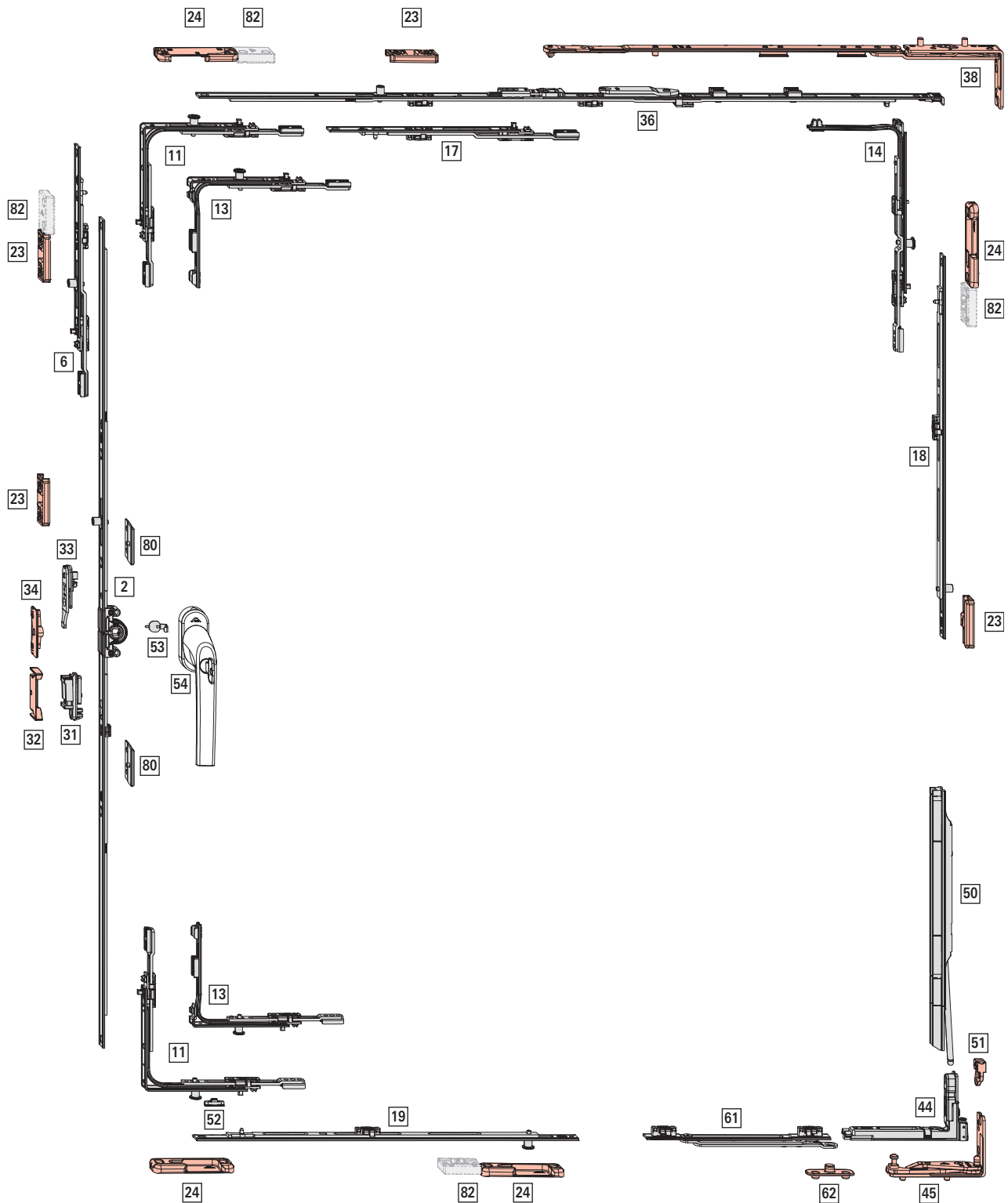
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3.2.2.3.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

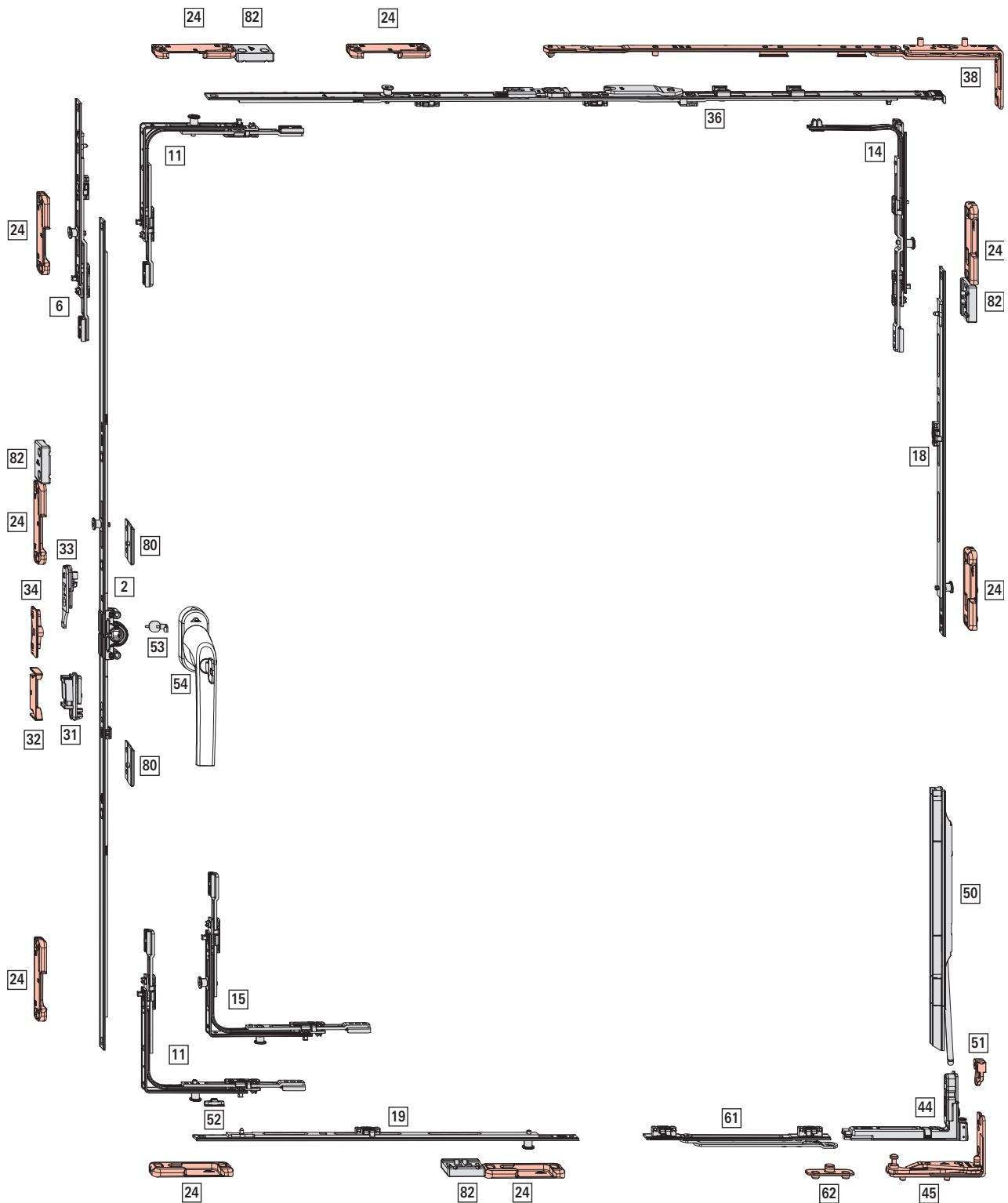
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3.2.2.3.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

		RC 2 / RC 2 N	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



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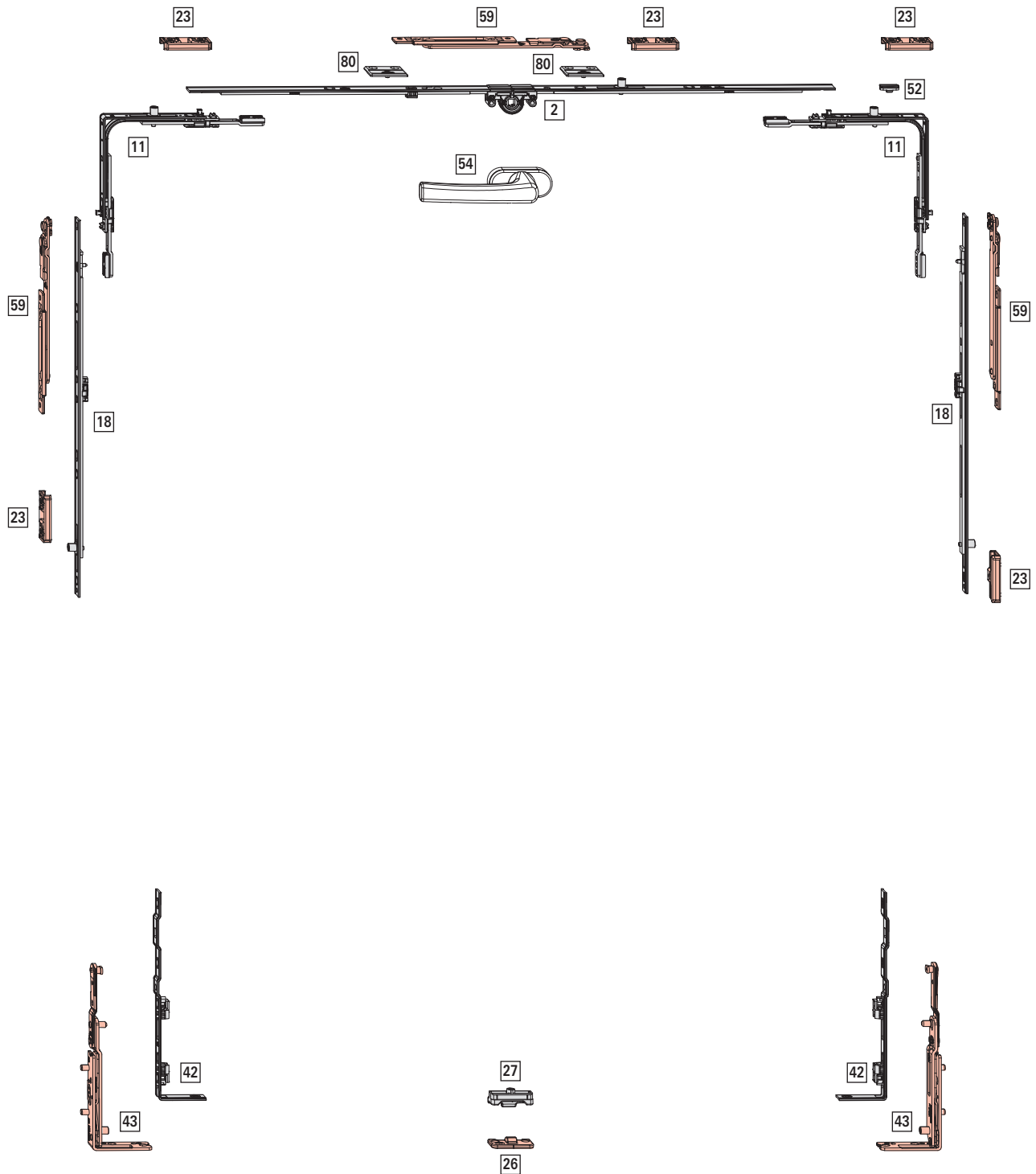
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3.2.2.4 Tilt-Only hardware

3.2.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 630</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	450 – 2400 mm
	Sash rebate height (SRH)	370 – 1500 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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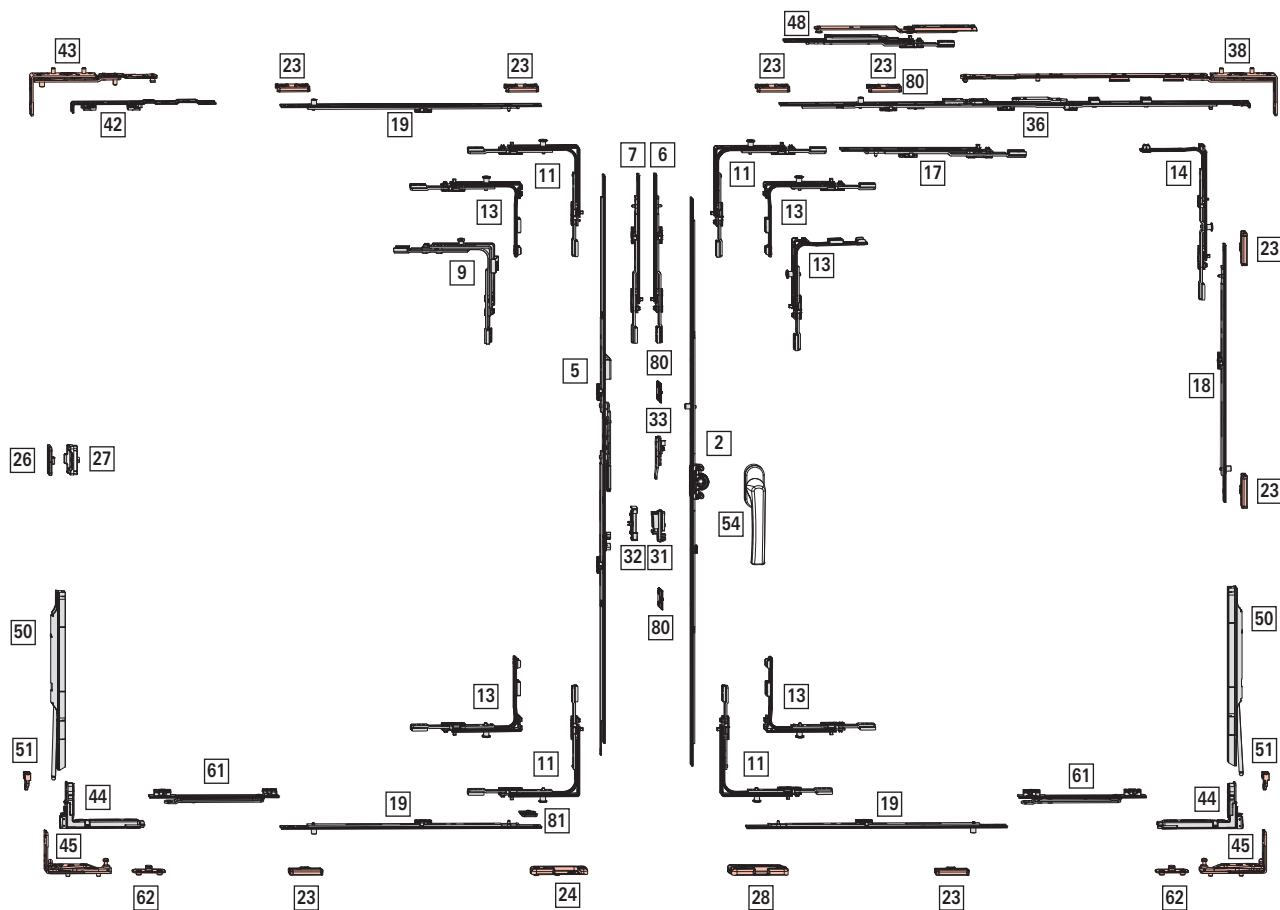
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3.2.2.5 Floating-mullion hardware – standard

3.2.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	370 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

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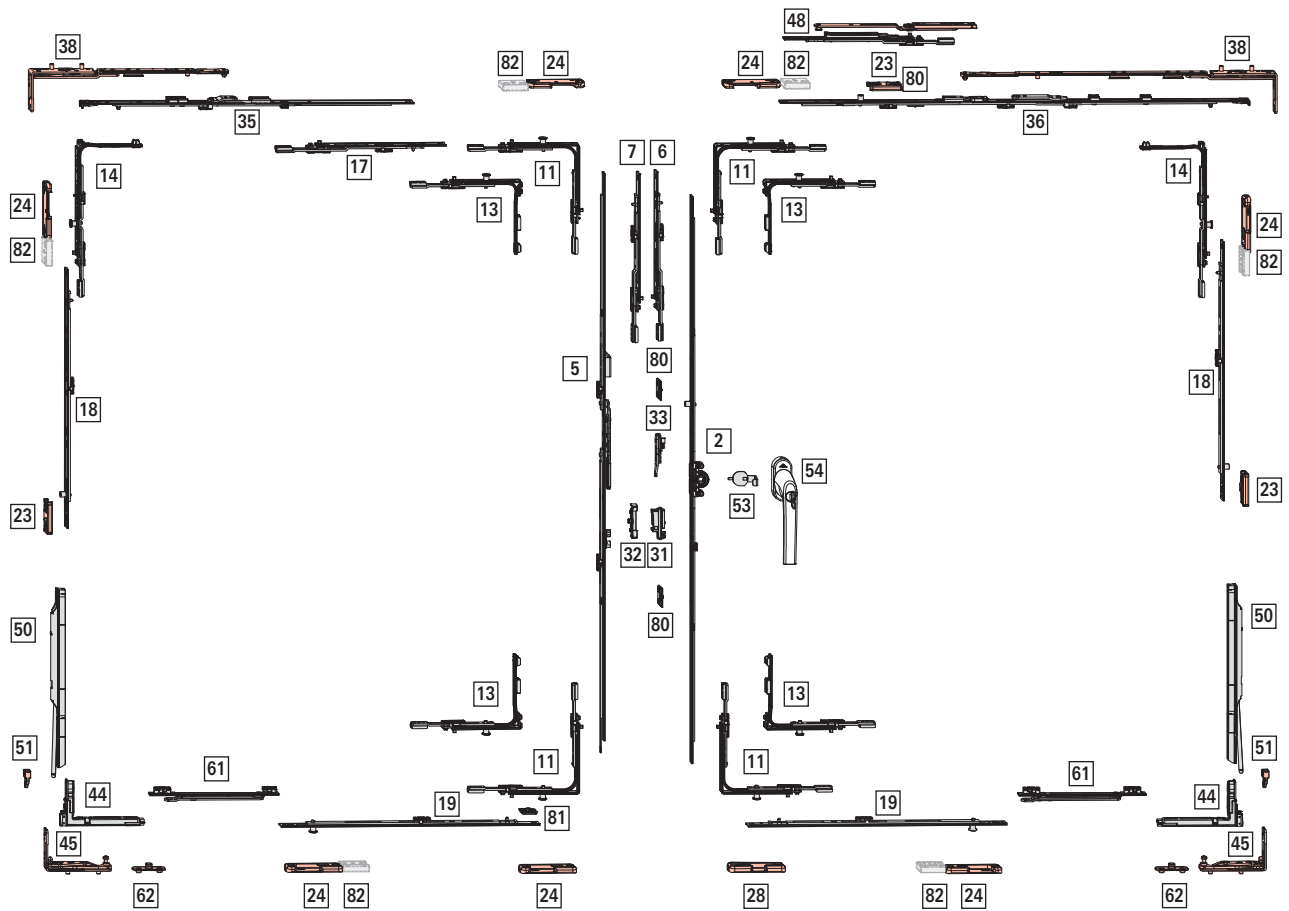
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3.2.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	370 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

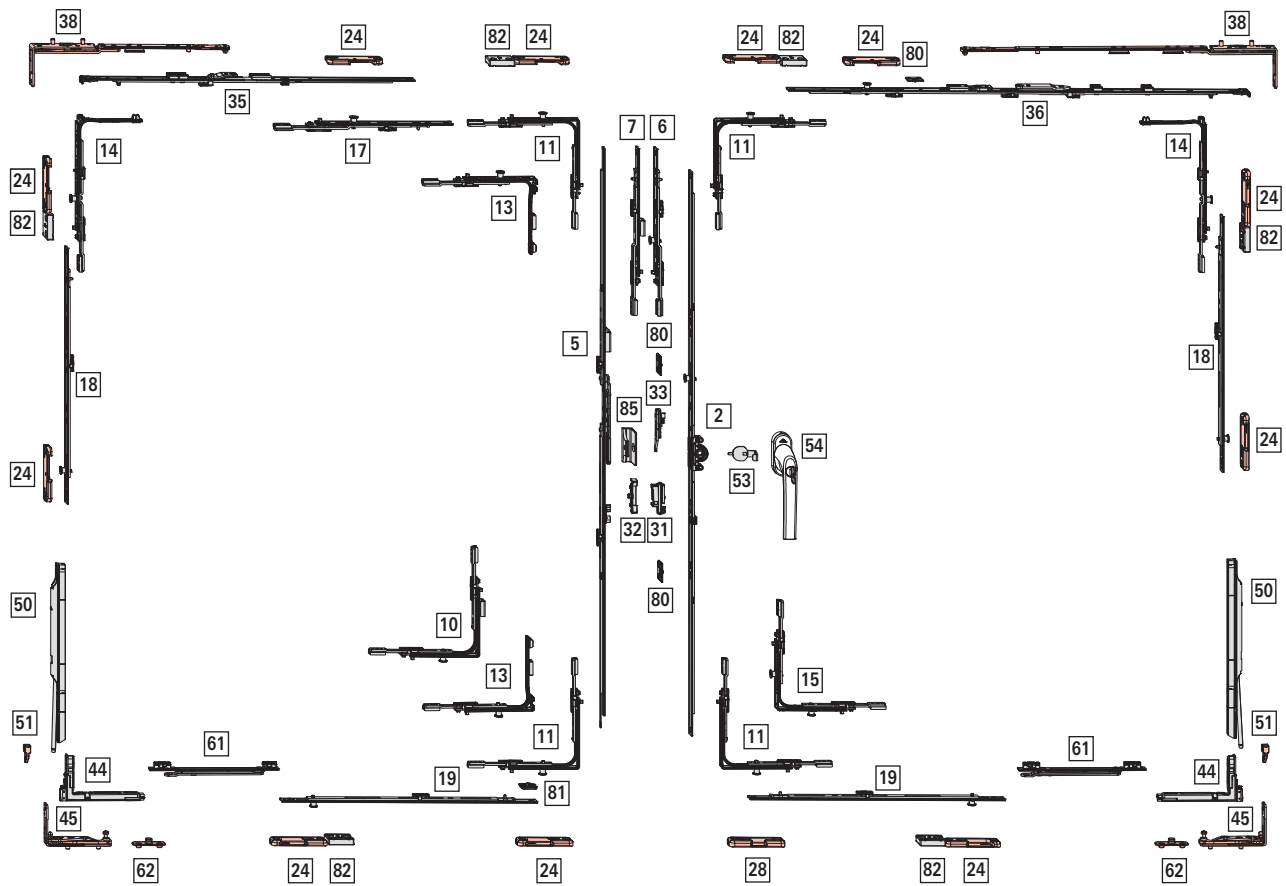
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3.2.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Optional: retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	520 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

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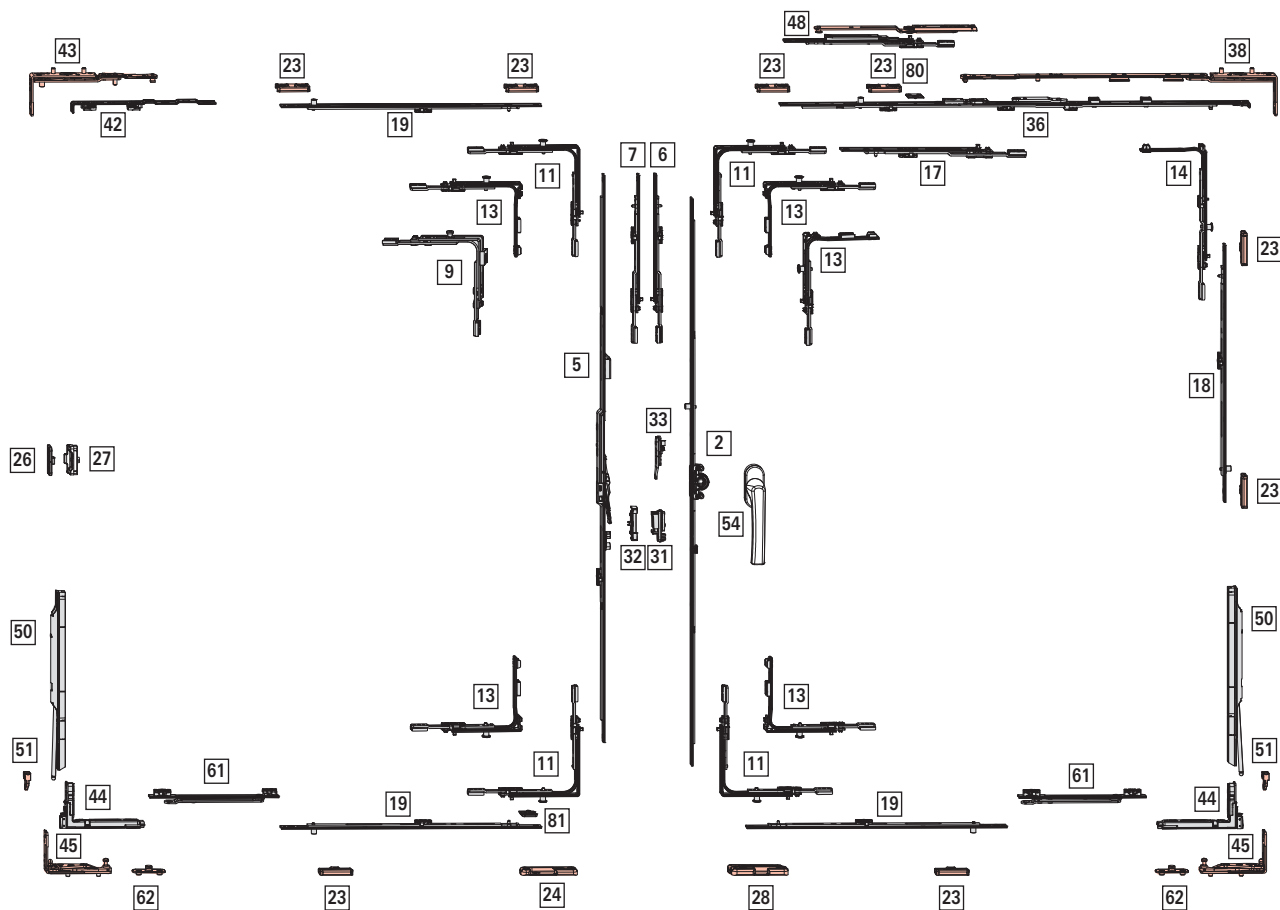
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3.2.2.6 Floating-mullion hardware – Plus

3.2.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 670</i>
[27]	Centre closer, concealed, sash component → <i>from page 670</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i> Alternatively: turn restrictor 355C → <i>from page 655</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1750 mm	600 – 1750 mm
	Sash rebate height (SRH)	420 – 3000 mm	1000 – 3000 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

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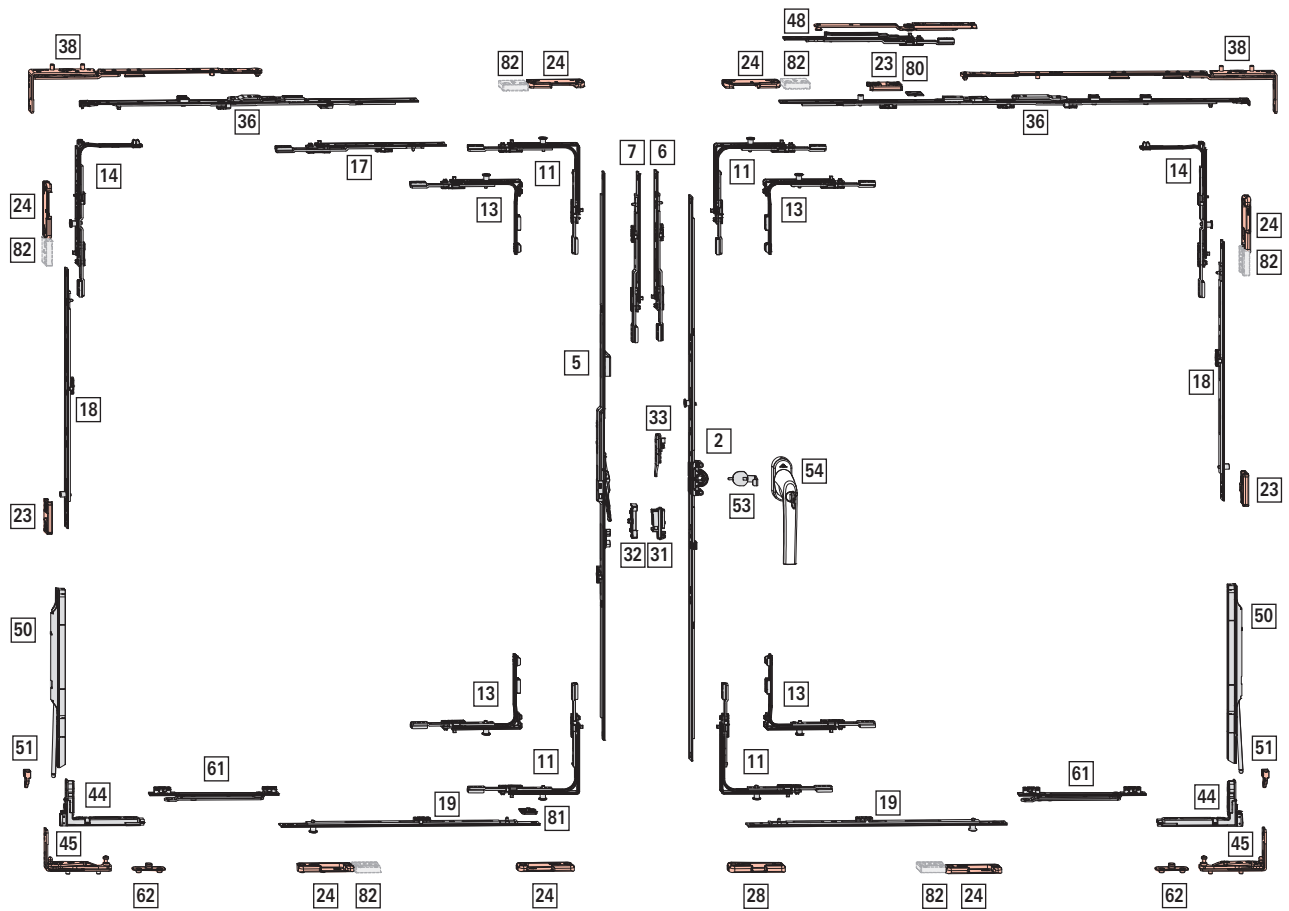
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3.2.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, basic security → <i>from page 525</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1600 mm	650 – 1600 mm
	Sash rebate height (SRH)	420 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

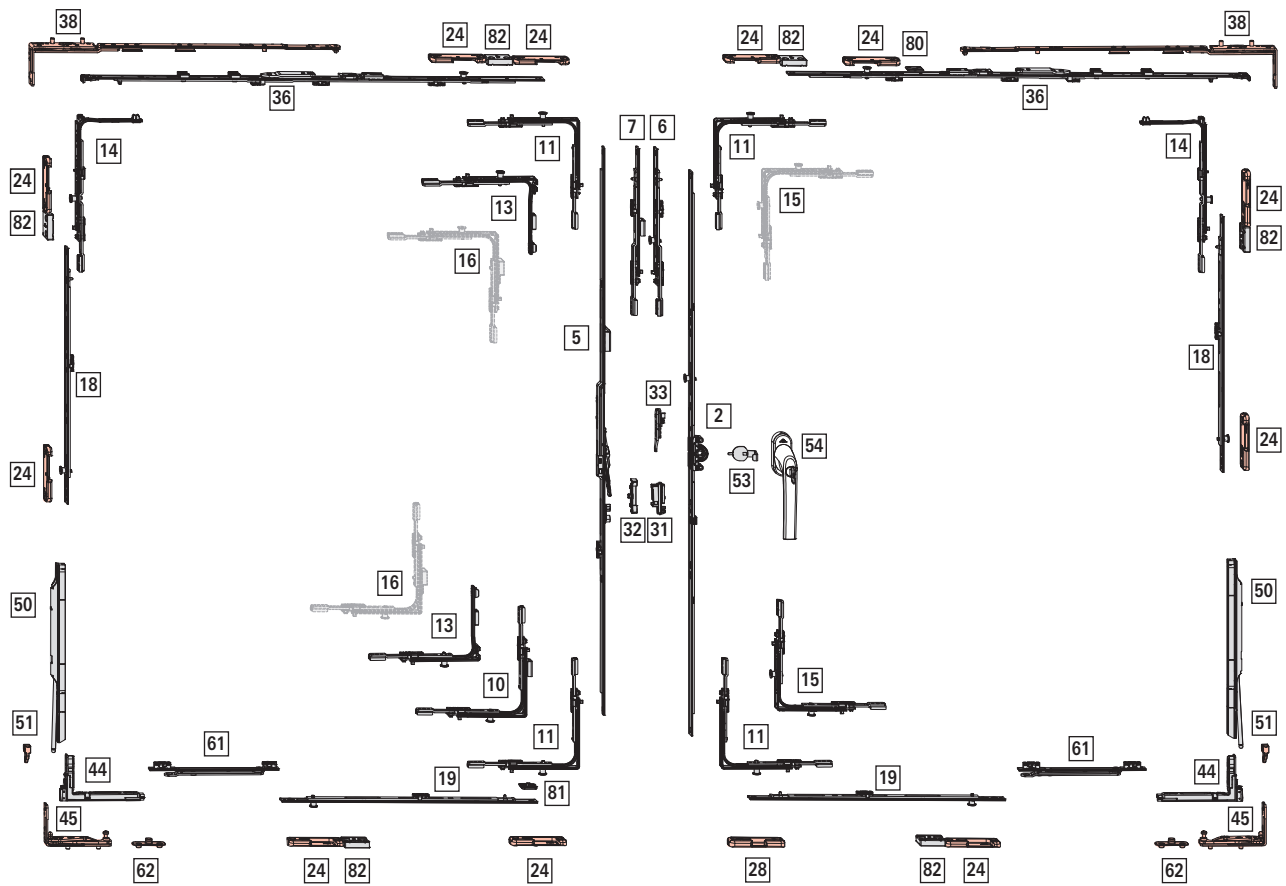
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3.2.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 526</i>
[36]	Stay guide, security → <i>from page 526</i>
[38]	Stay arm → <i>from page 537</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	650 – 1400 mm
	Sash rebate height (SRH)	520 – 2800 mm	1000 – 2800 mm
	Sash weight (S.kg)	Max. 120 kg	80 – 180 kg



INFO

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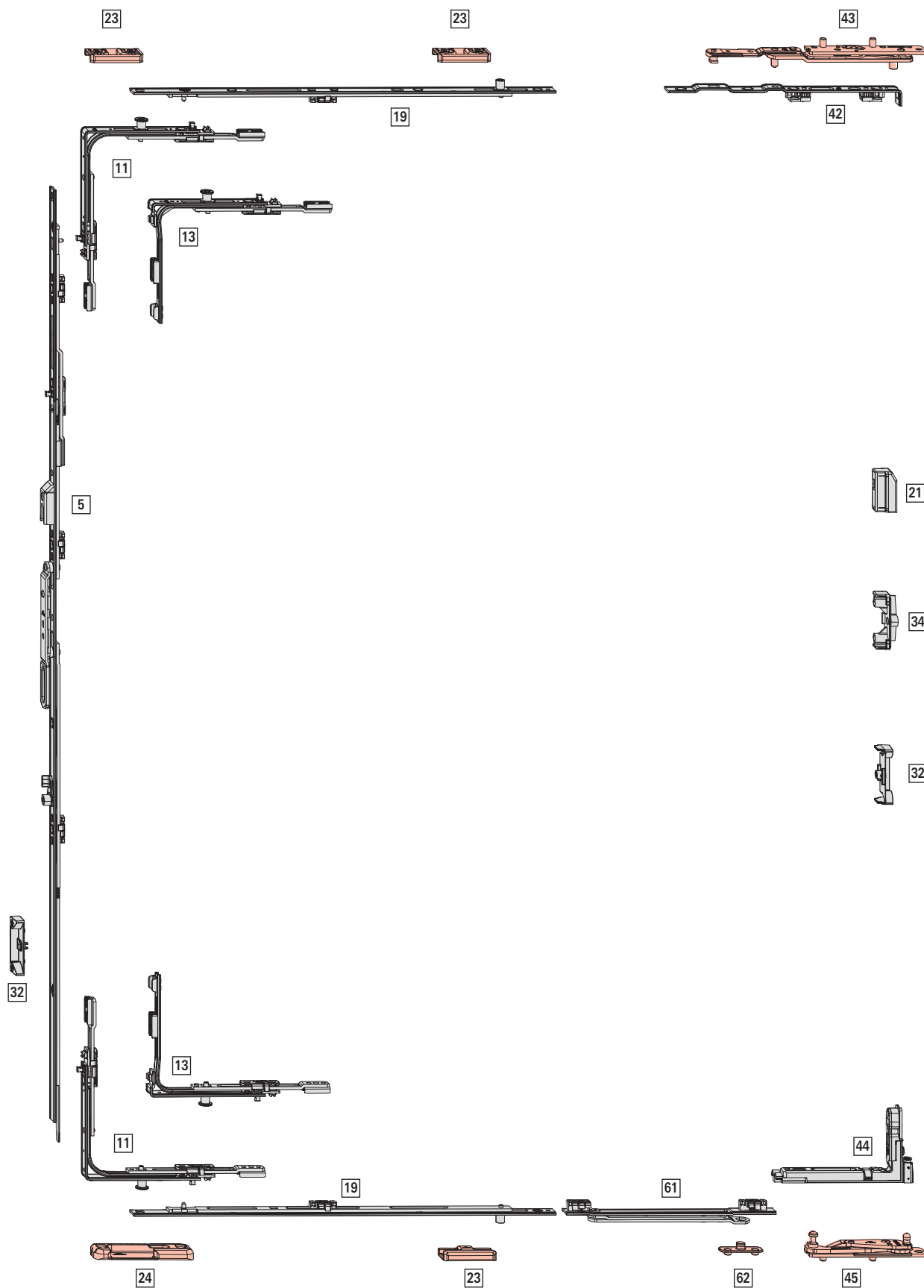
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3.2.2.7 Floating-mullion hardware – centre sash (triple-sashed windows)

3.2.2.7.1 Standard – basic security





Item	Description
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[21]	Striker for opposite hardware groove → <i>from page 620</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
Without load transfer		
	Sash rebate width (SRW)	370 – 1200 mm
	Sash rebate height (SRH)	370 – 1800 mm
	Sash weight (S.kg)	Max. 100 kg



INFO

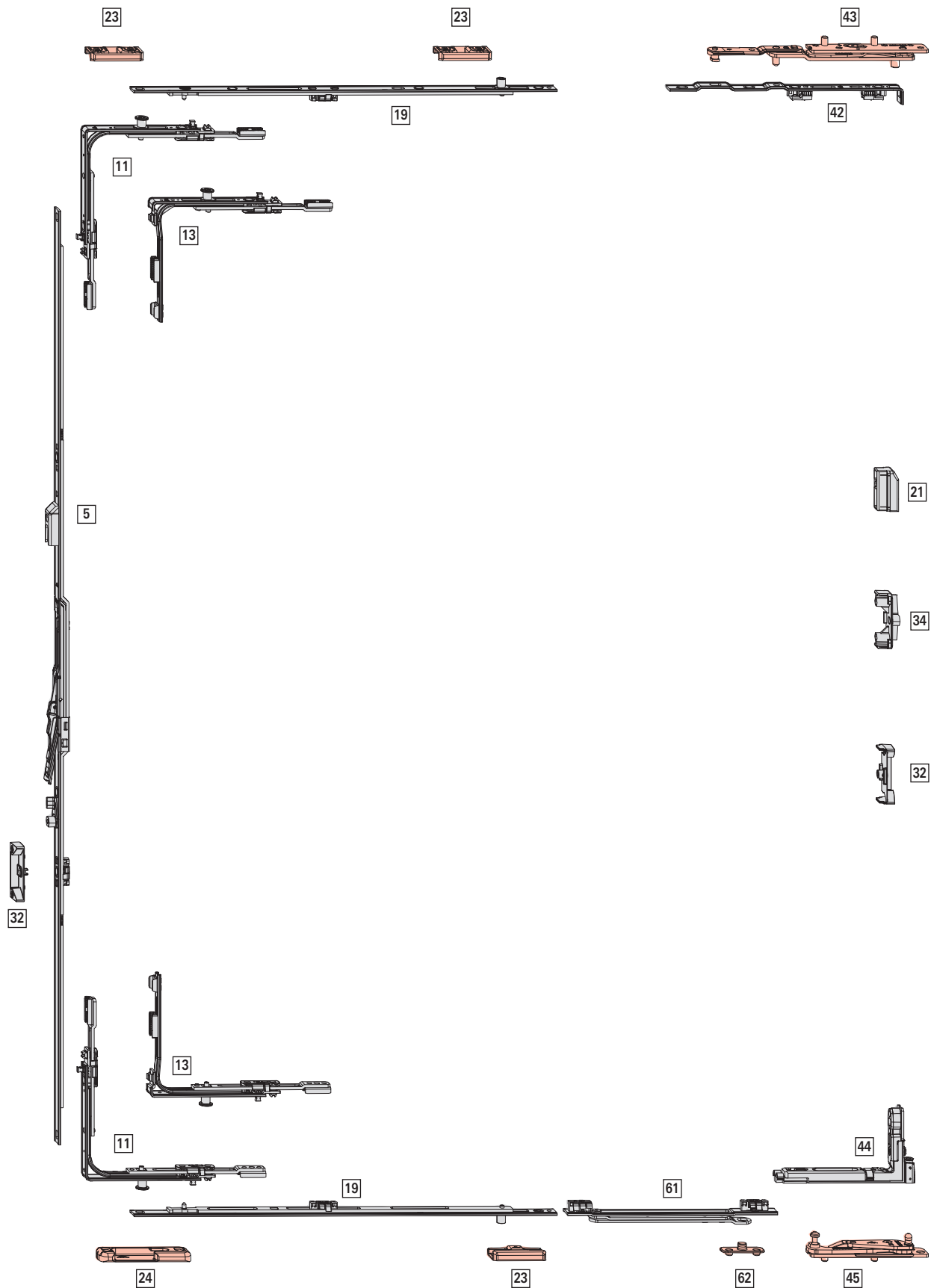
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3.2.2.7.2 Plus – basic security





Item	Description
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[21]	Striker for opposite hardware groove → <i>from page 620</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 546</i>
[43]	Rebate stay arm → <i>from page 549</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 599</i>
[61]	Turn restrictor 195, sash component → <i>from page 660</i>
[62]	Turn restrictor 195, frame component → <i>from page 633</i>

Application range

Basic security		
Without load transfer		
	Sash rebate width (SRW)	370 – 1200 mm
	Sash rebate height (SRH)	420 – 1800 mm
	Sash weight (S.kg)	Max. 100 kg



INFO

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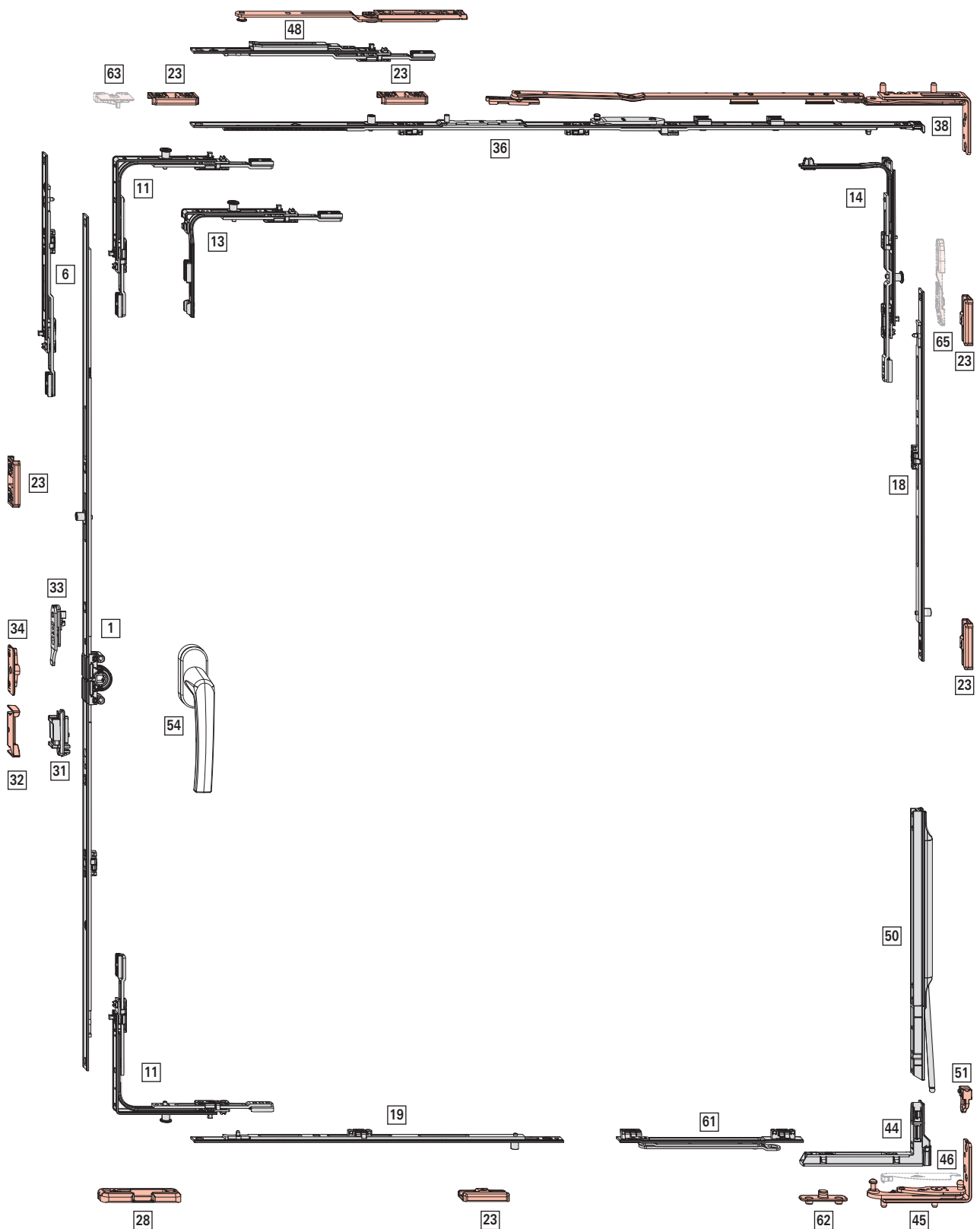
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3.3 Hinge side Designo (HA 13)

3.3.1 T&T espagnolette, VT – fixed handle height

3.3.1.1 Tilt&Turn hardware

3.3.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[63]	Night vent → <i>from page 650</i>
[65]	Anti-slam device → <i>from page 676</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

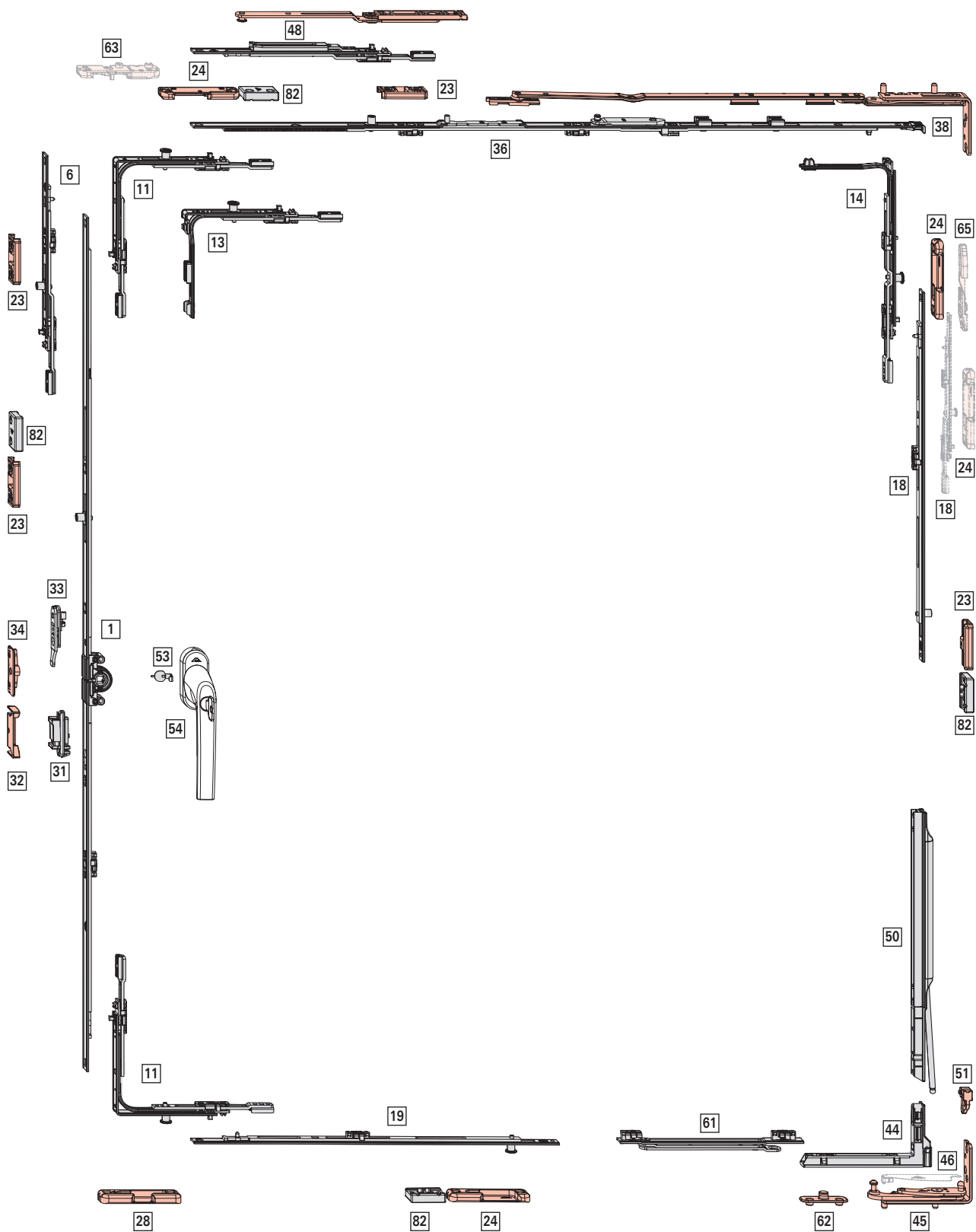
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3.3.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[63]	Night vent → <i>from page 650</i>
[65]	Anti-slam device → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

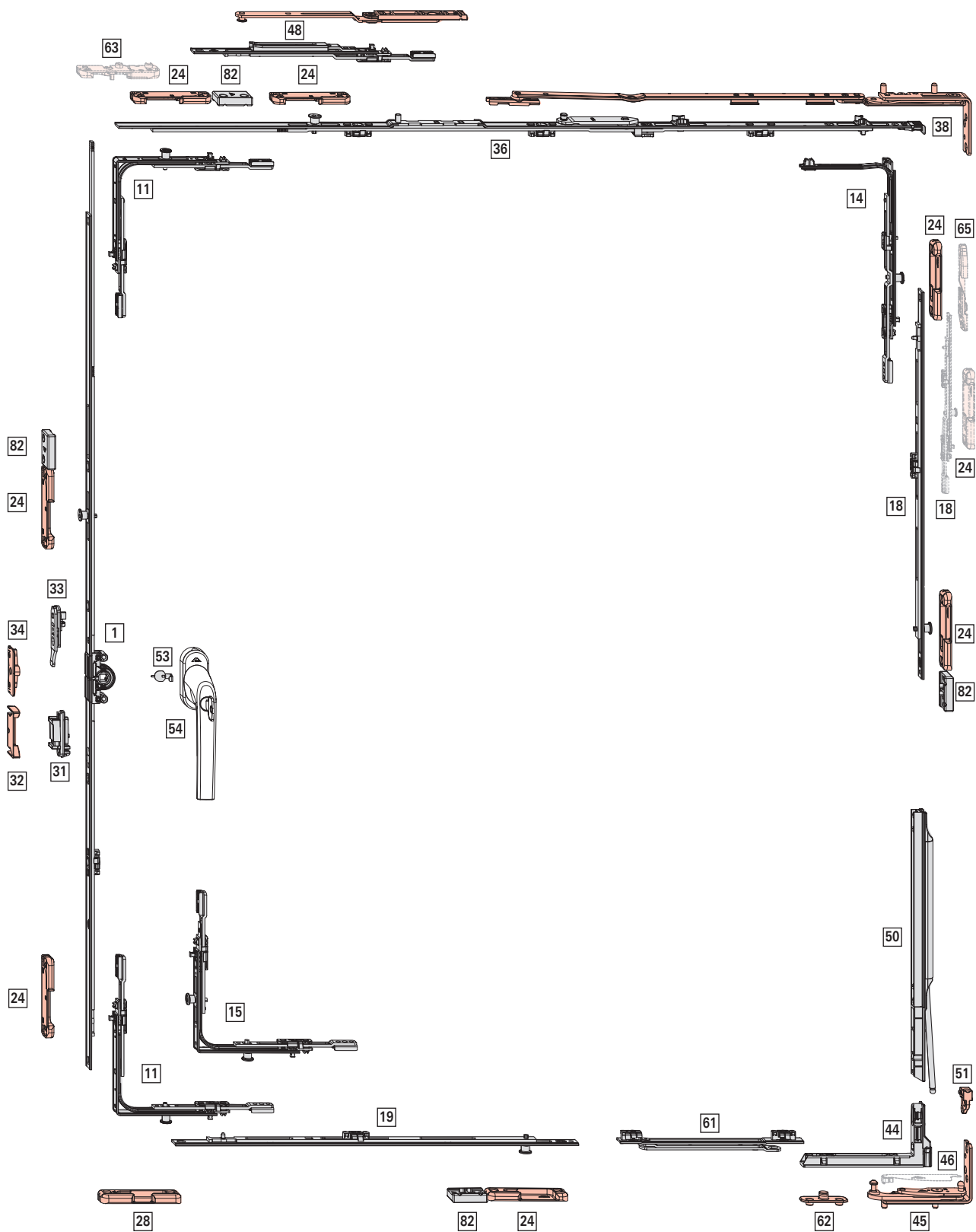
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3.3.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[63]	Night vent → <i>from page 650</i>
[65]	Anti-slam device → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

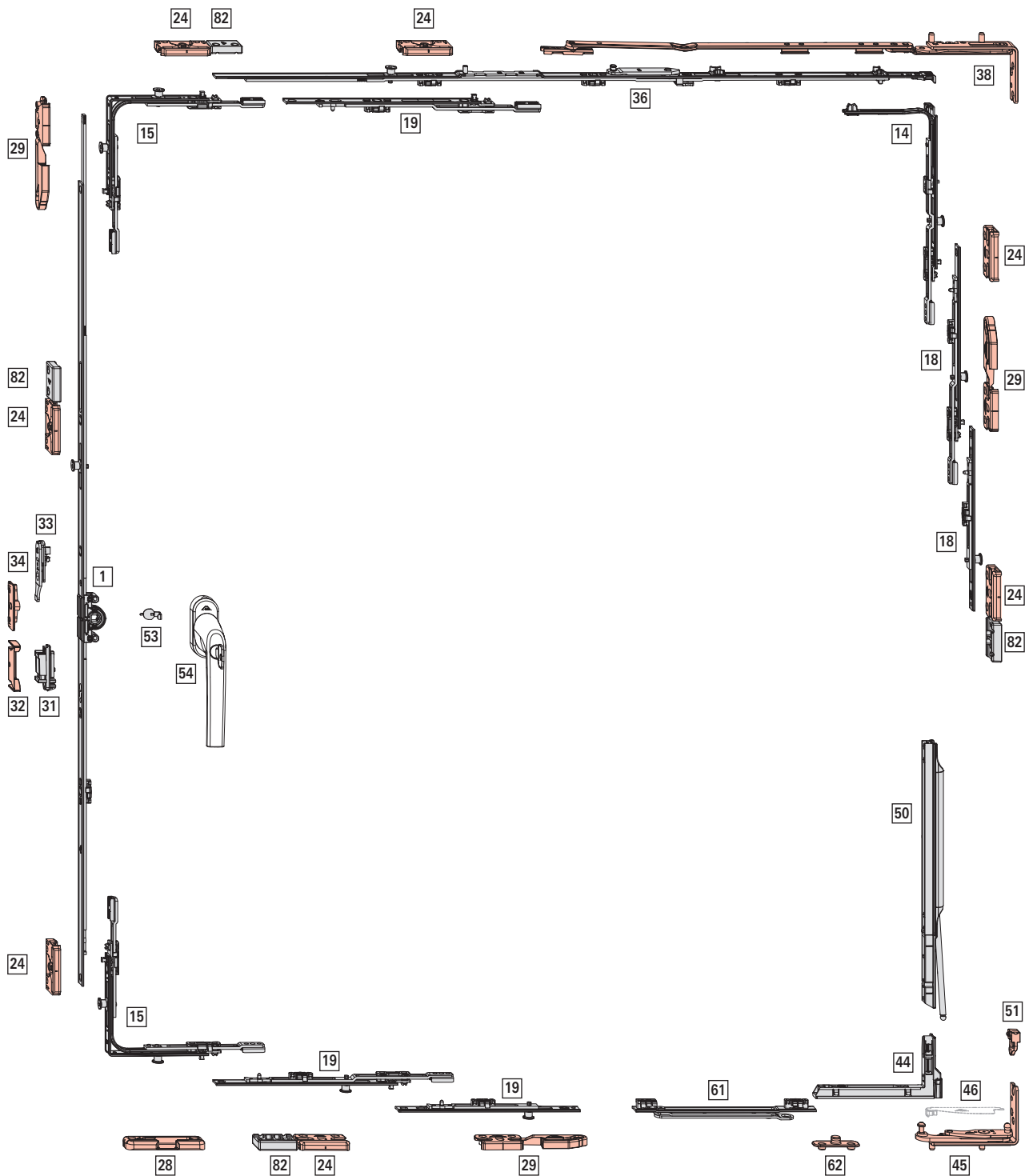
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3.3.1.1.4 TiltSafe RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[29]	Security striker for tilt ventilation → <i>from page 618</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[82]	Anti-jemmy device → <i>from page 663</i>

**INFO**

Only for hardware axis 13 and rebate depth 30 mm.

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg

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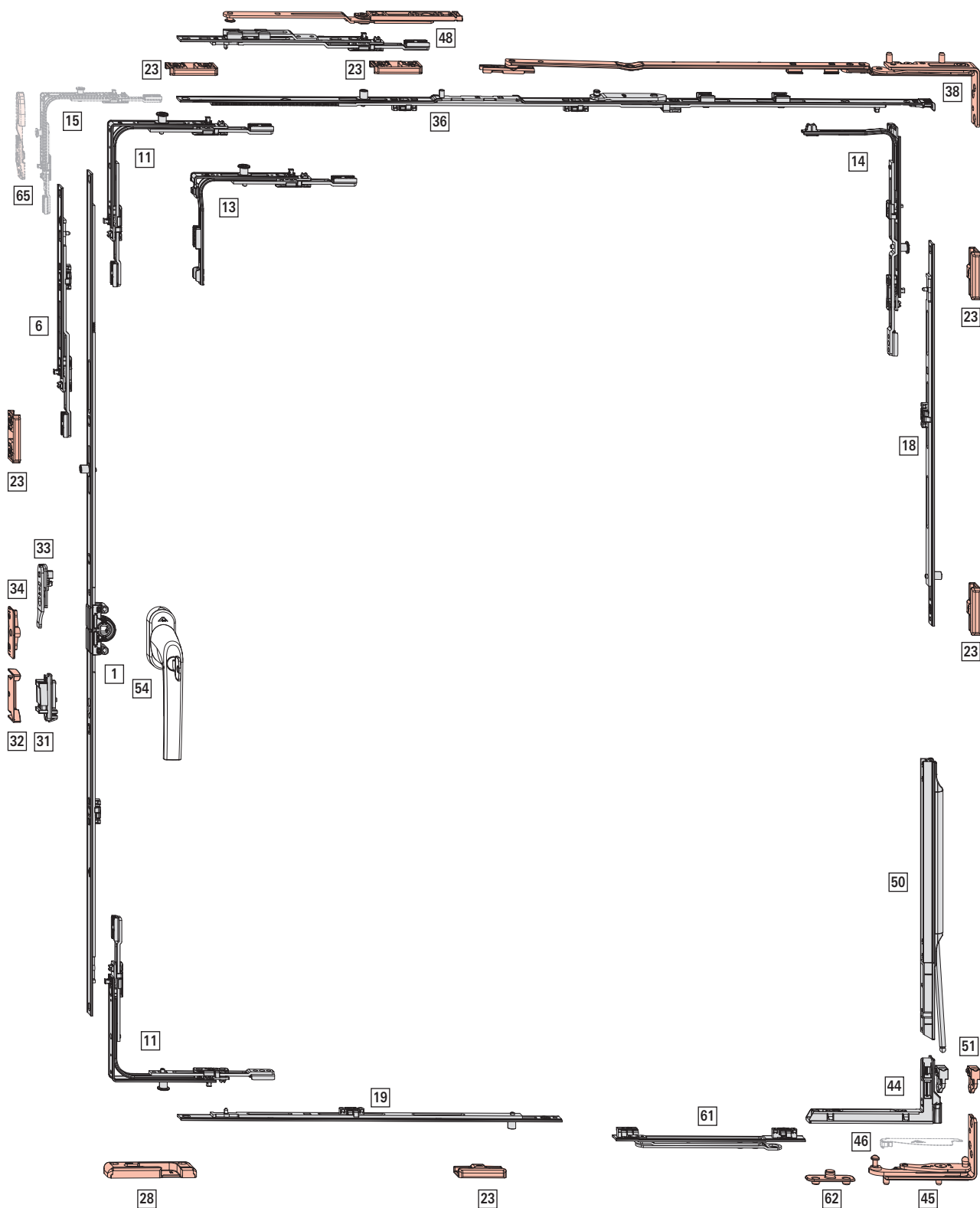
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3.3.1.2 TiltFirst hardware

3.3.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm, TiltFirst → <i>from page 540</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle, lockable TiltFirst (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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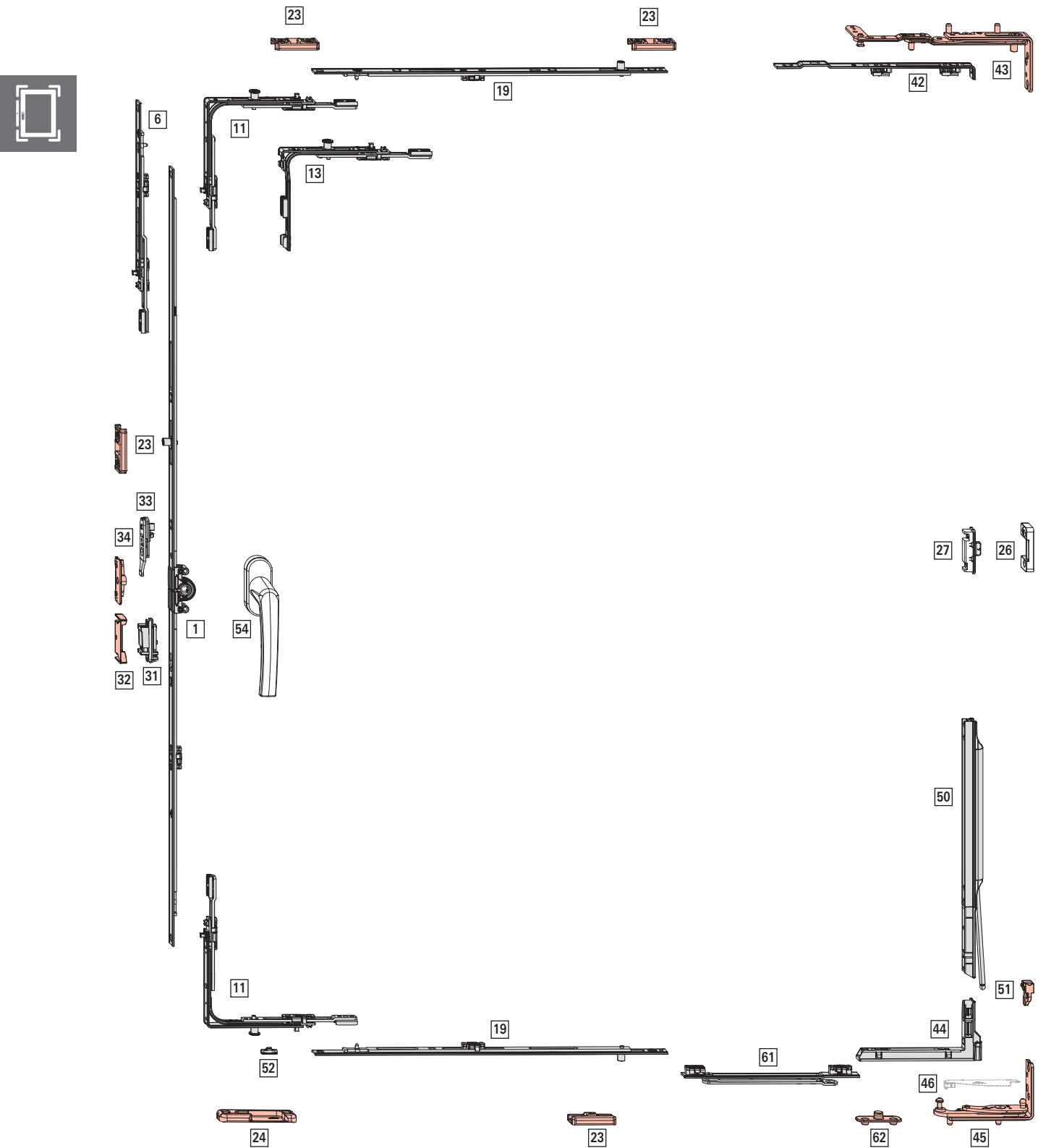
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3.3.1.3 Turn-Only hardware

3.3.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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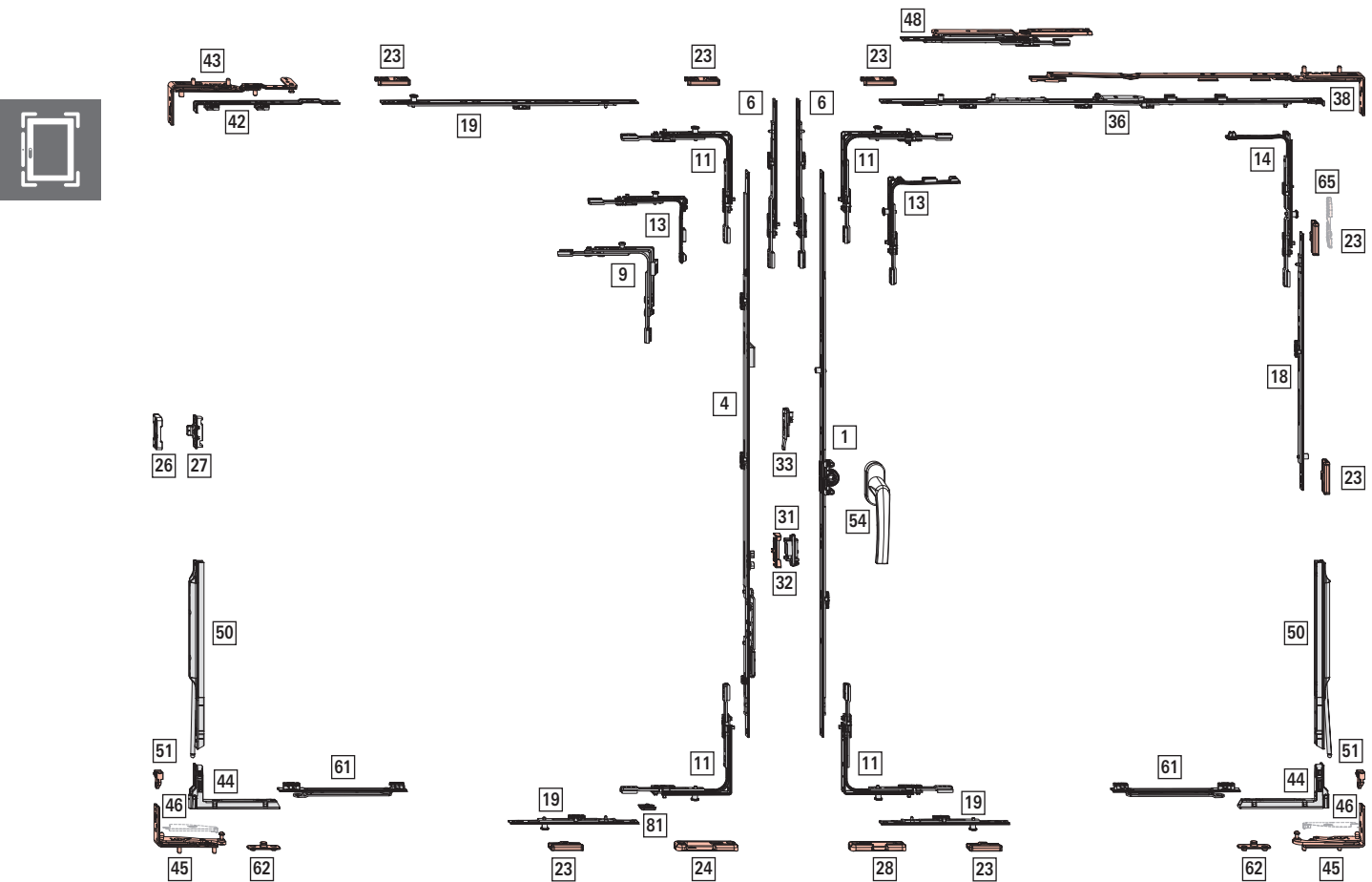
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3.3.1.4 Floating-mullion hardware – standard

3.3.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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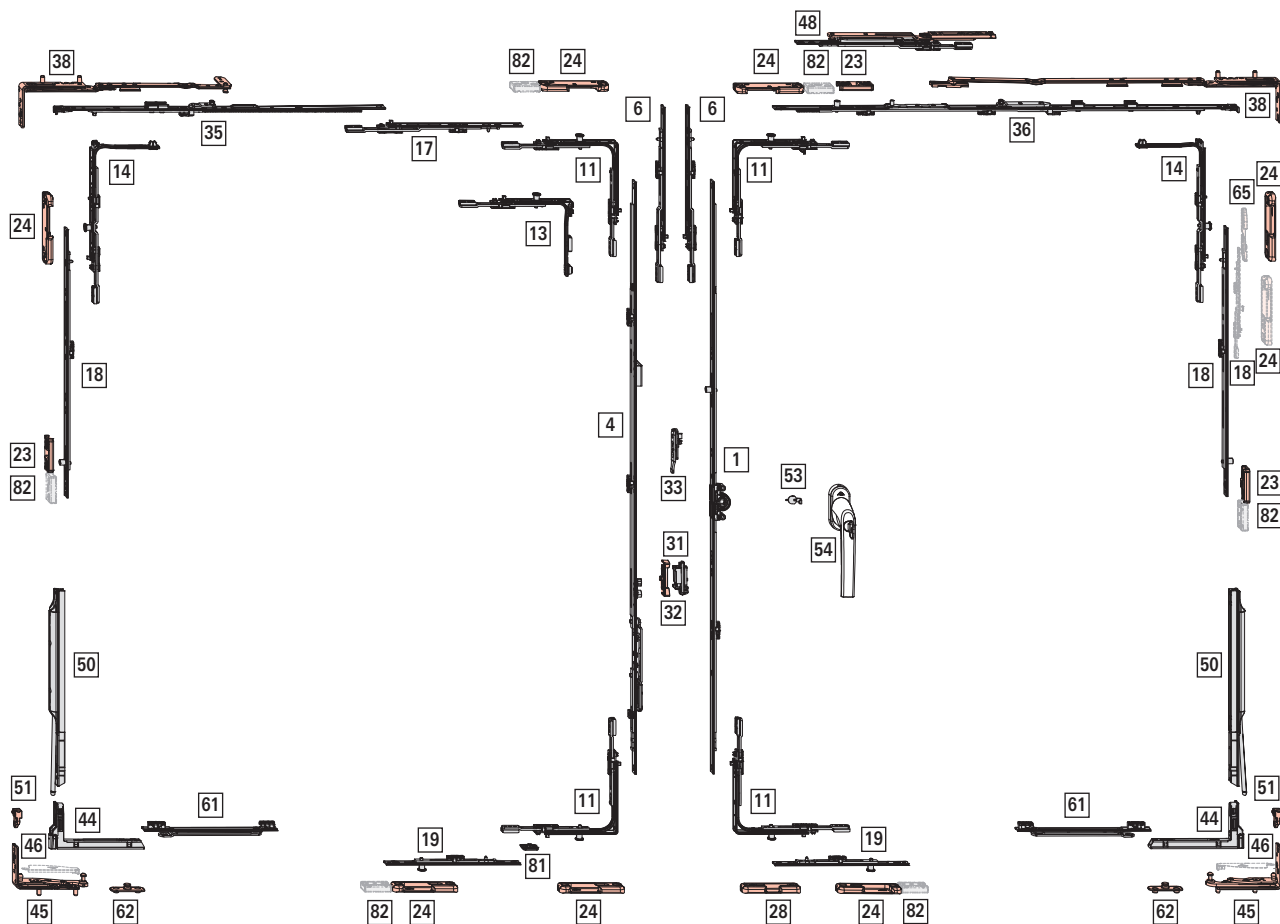
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3.3.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

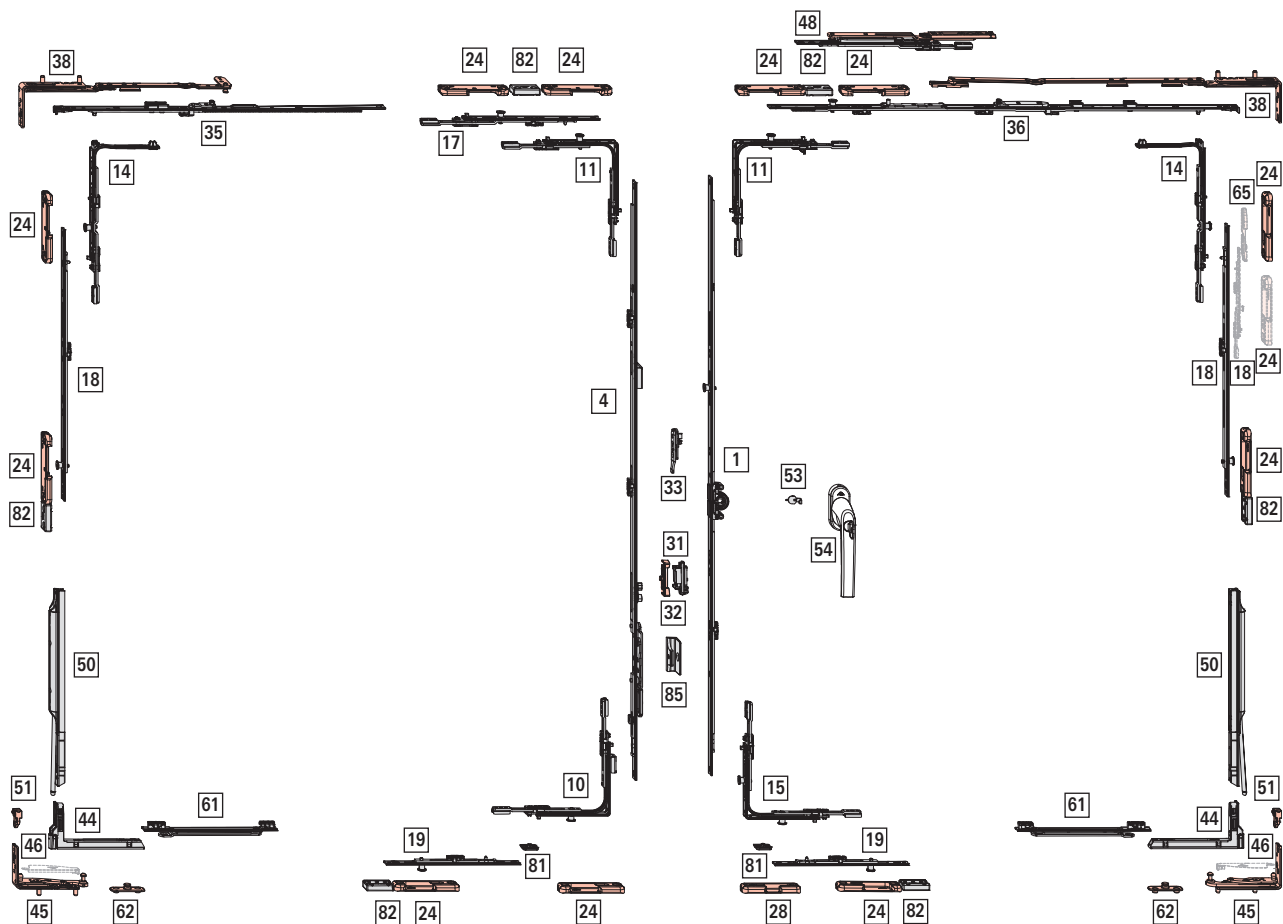
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3.3.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp for lever-operated espagnolette → <i>662</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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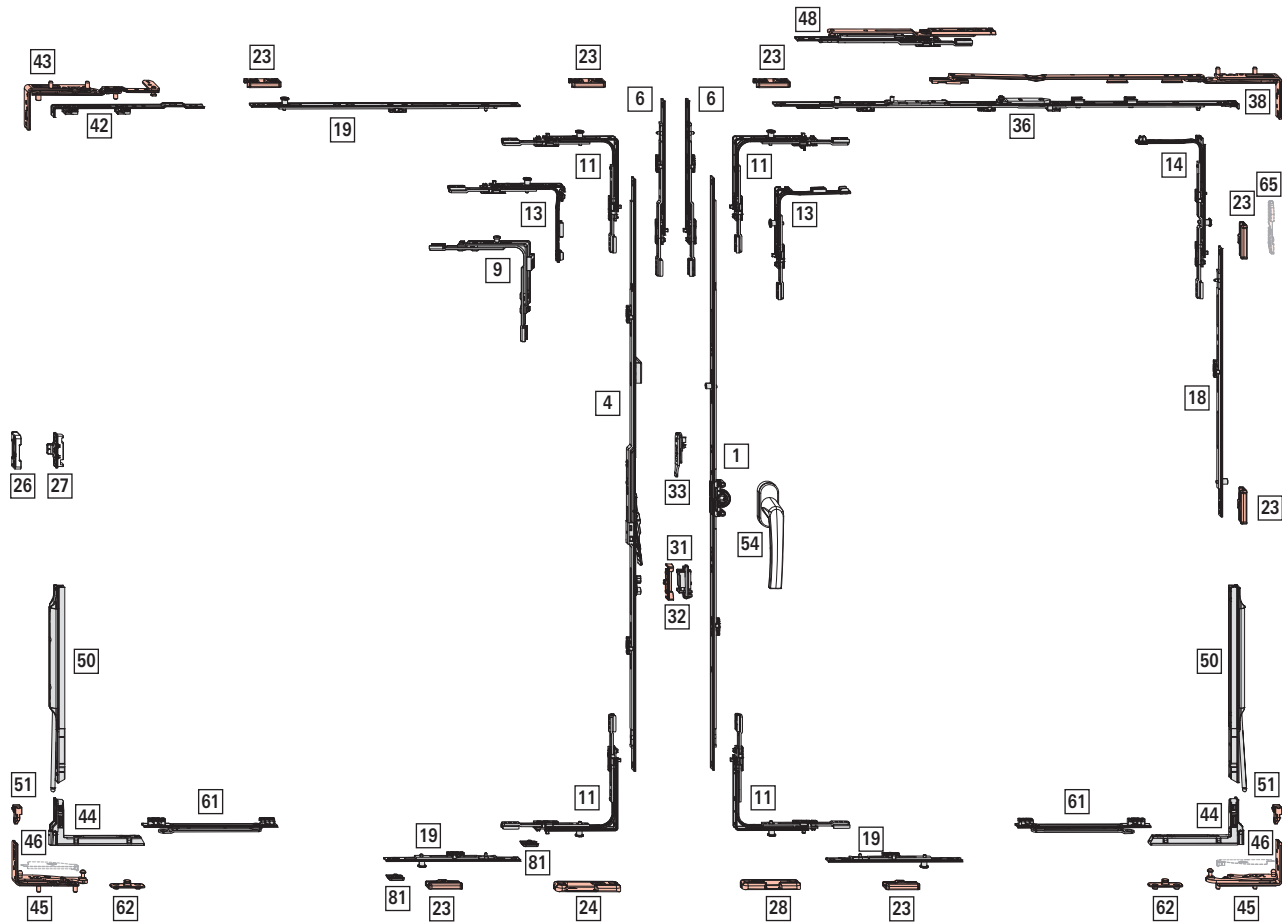
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3.3.1.5 Floating-mullion hardware – Plus

3.3.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 496</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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3.3.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 496</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

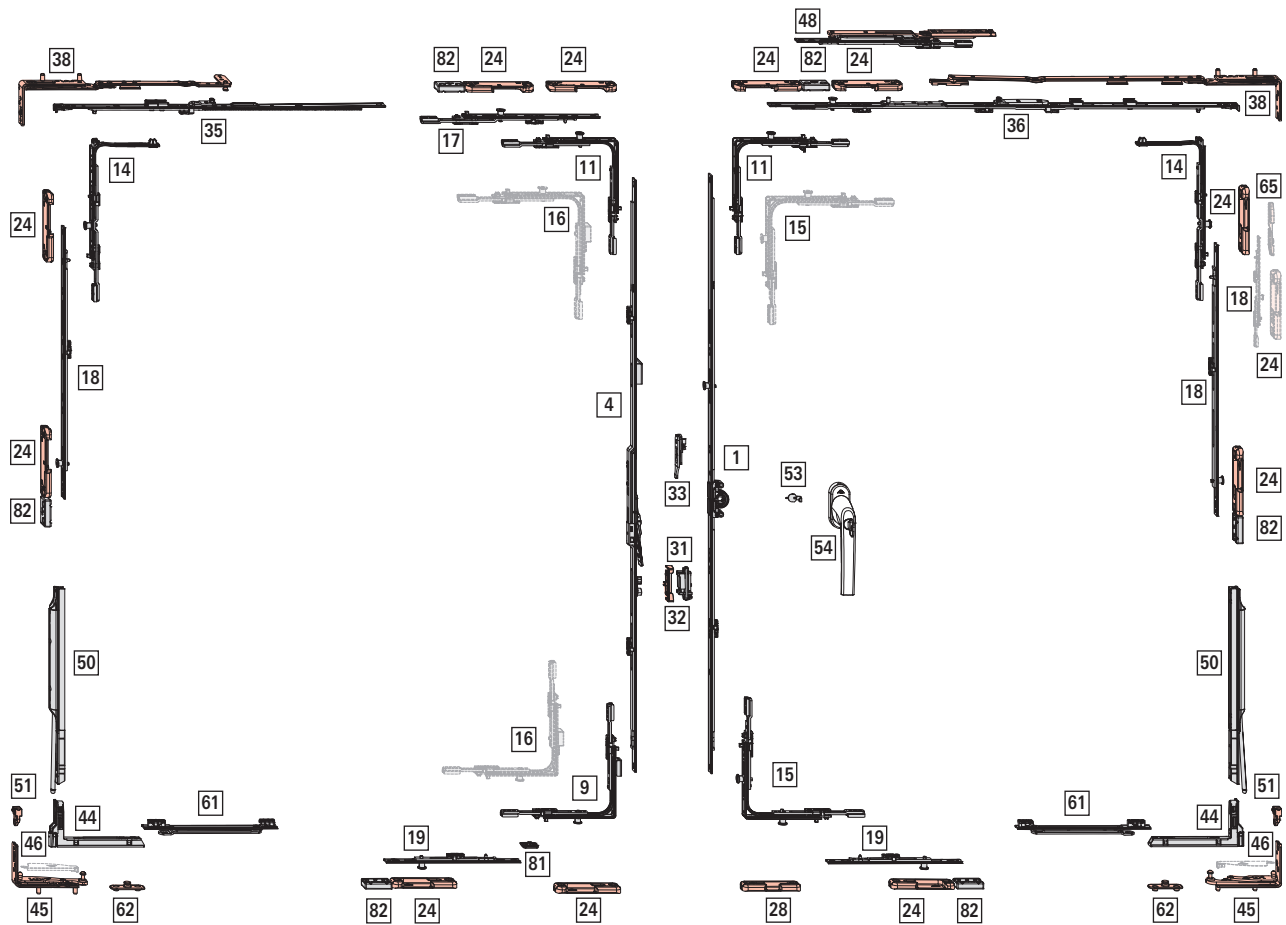
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3.3.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 496</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 510</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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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.

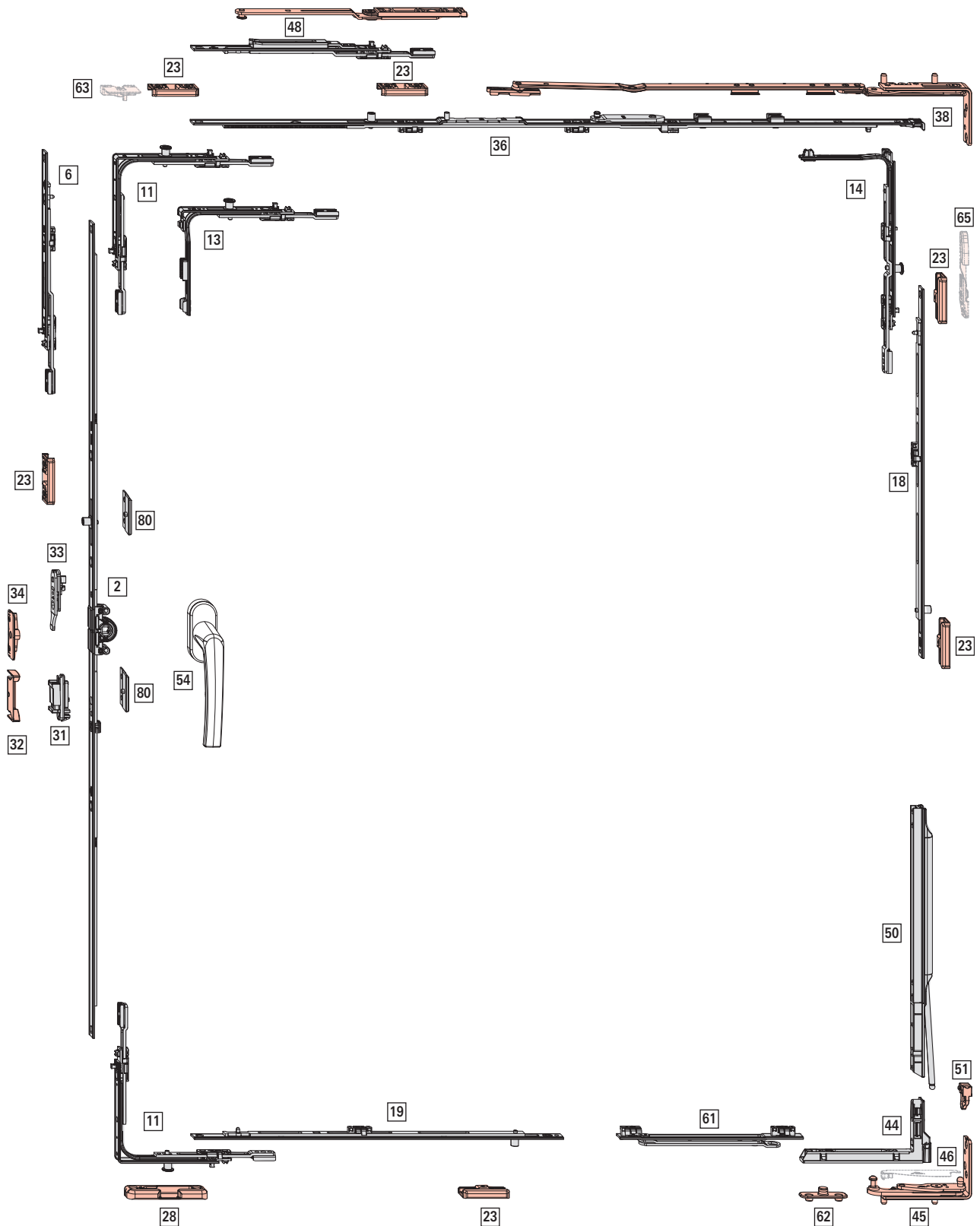


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3.3.2 T&T espagnolette – centred / variable handle height

3.3.2.1 Tilt&Turn hardware

3.3.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[63]	Night vent → <i>from page 650</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

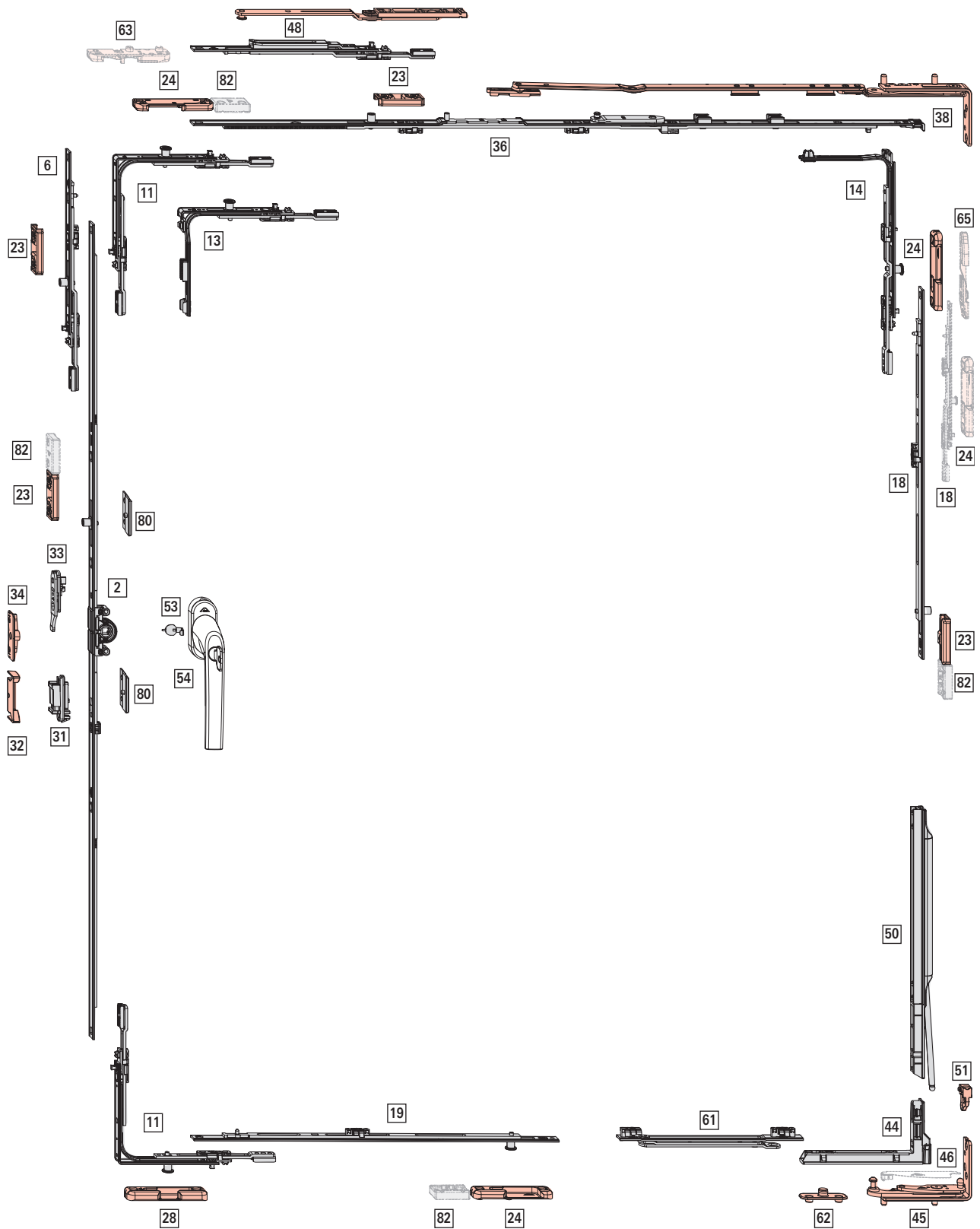
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3.3.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[63]	Night vent → <i>from page 650</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

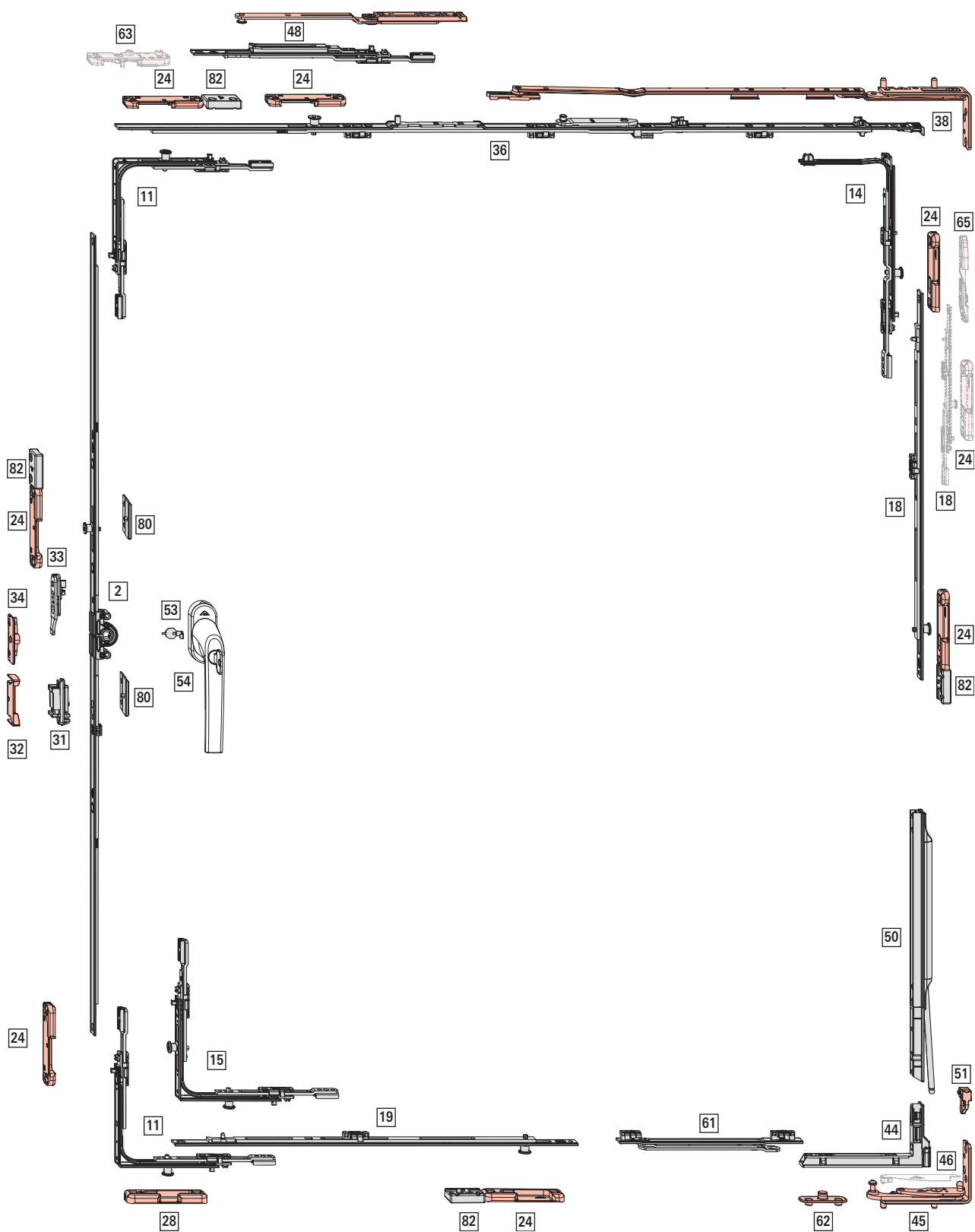
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3.3.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[63]	Night vent → <i>from page 650</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	490 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

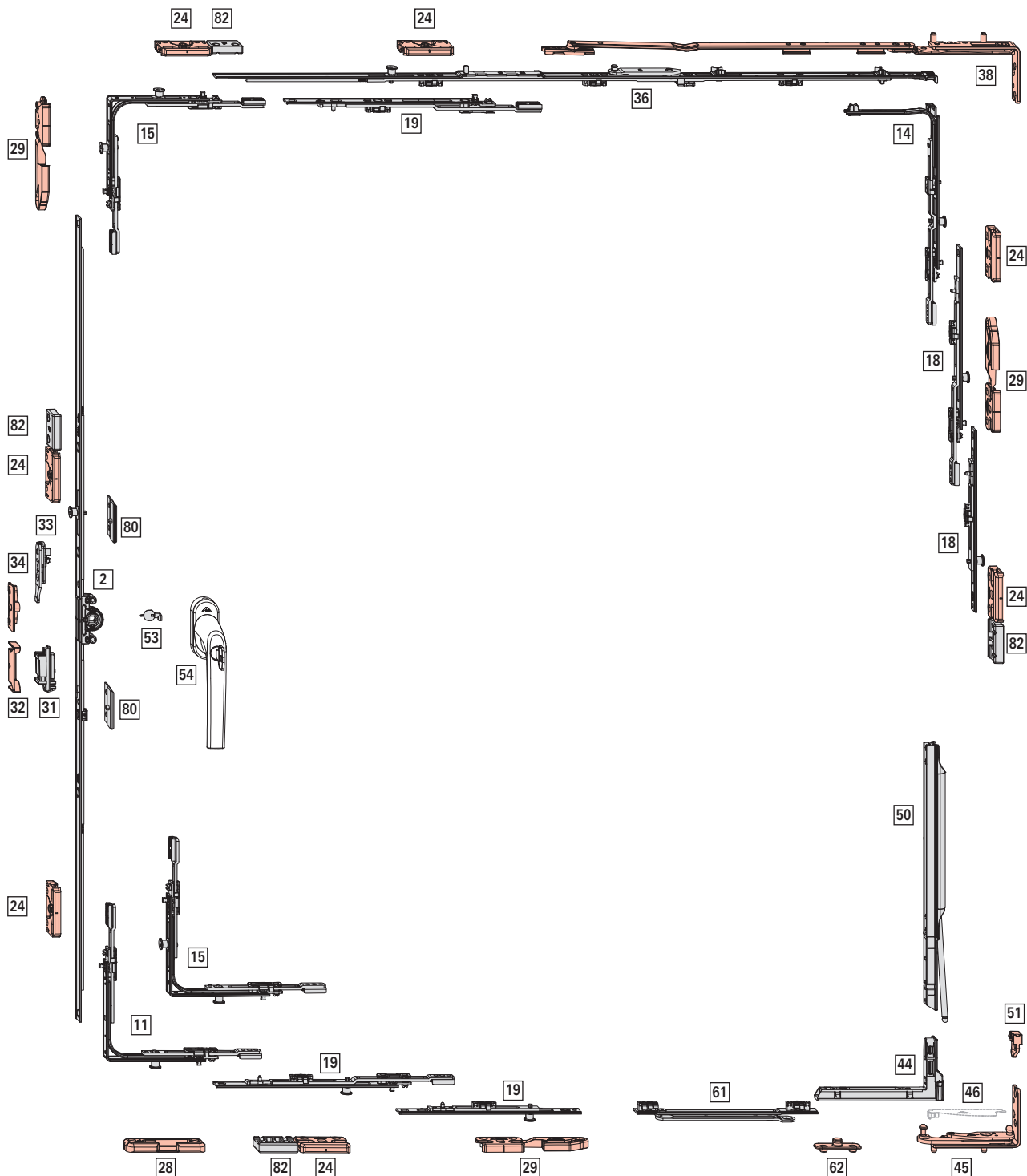
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3.3.2.1.4 TiltSafe RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[29]	Security striker for tilt ventilation → <i>from page 618</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Rebate run-up block, insertable → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>



INFO

Only for hardware axis 13 and rebate depth 30 mm.

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	490 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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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.

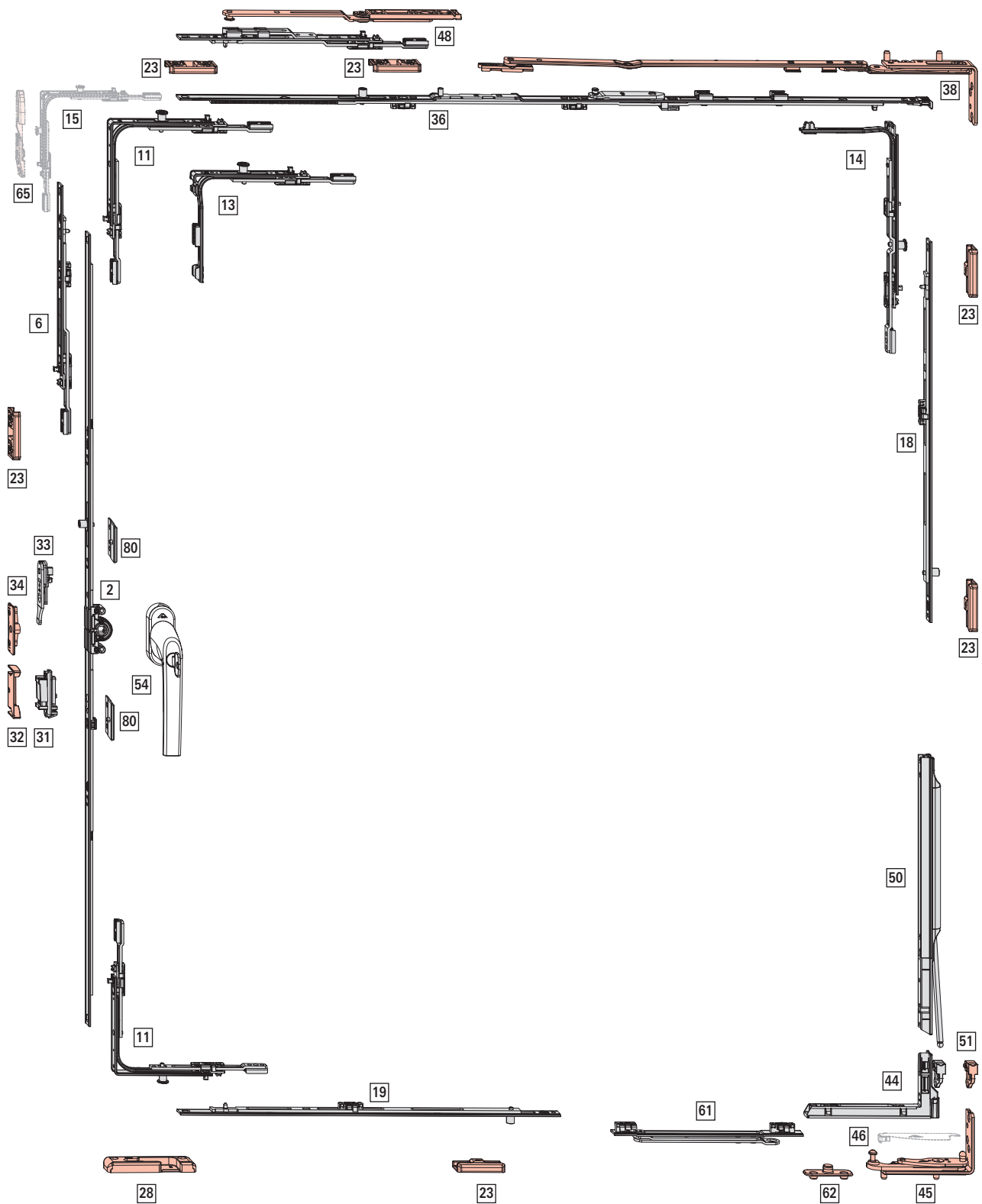


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3.3.2.2 TiltFirst hardware

3.3.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm, TiltFirst → <i>from page 540</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle, lockable TiltFirst (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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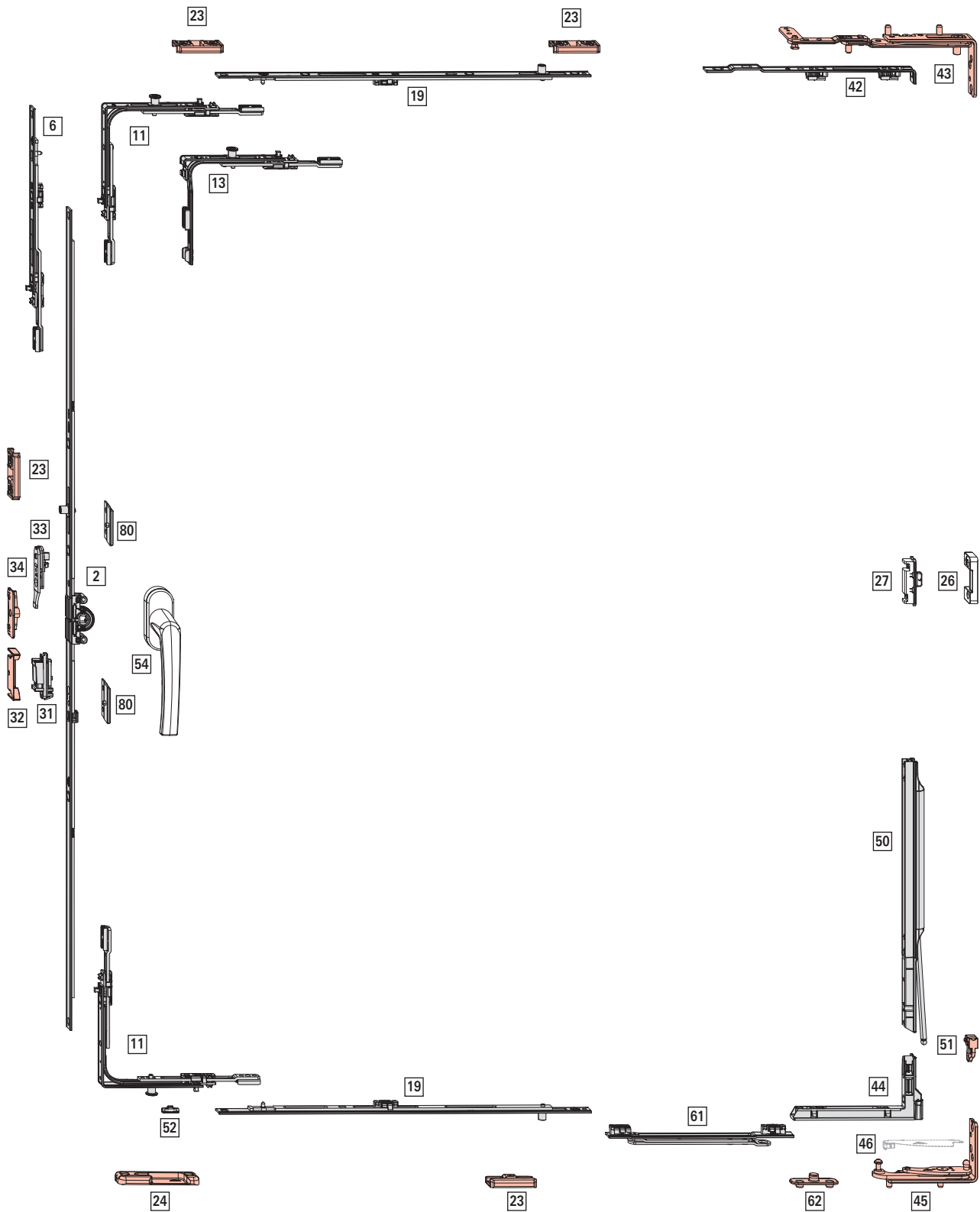


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3.3.2.3 Turn-Only hardware

3.3.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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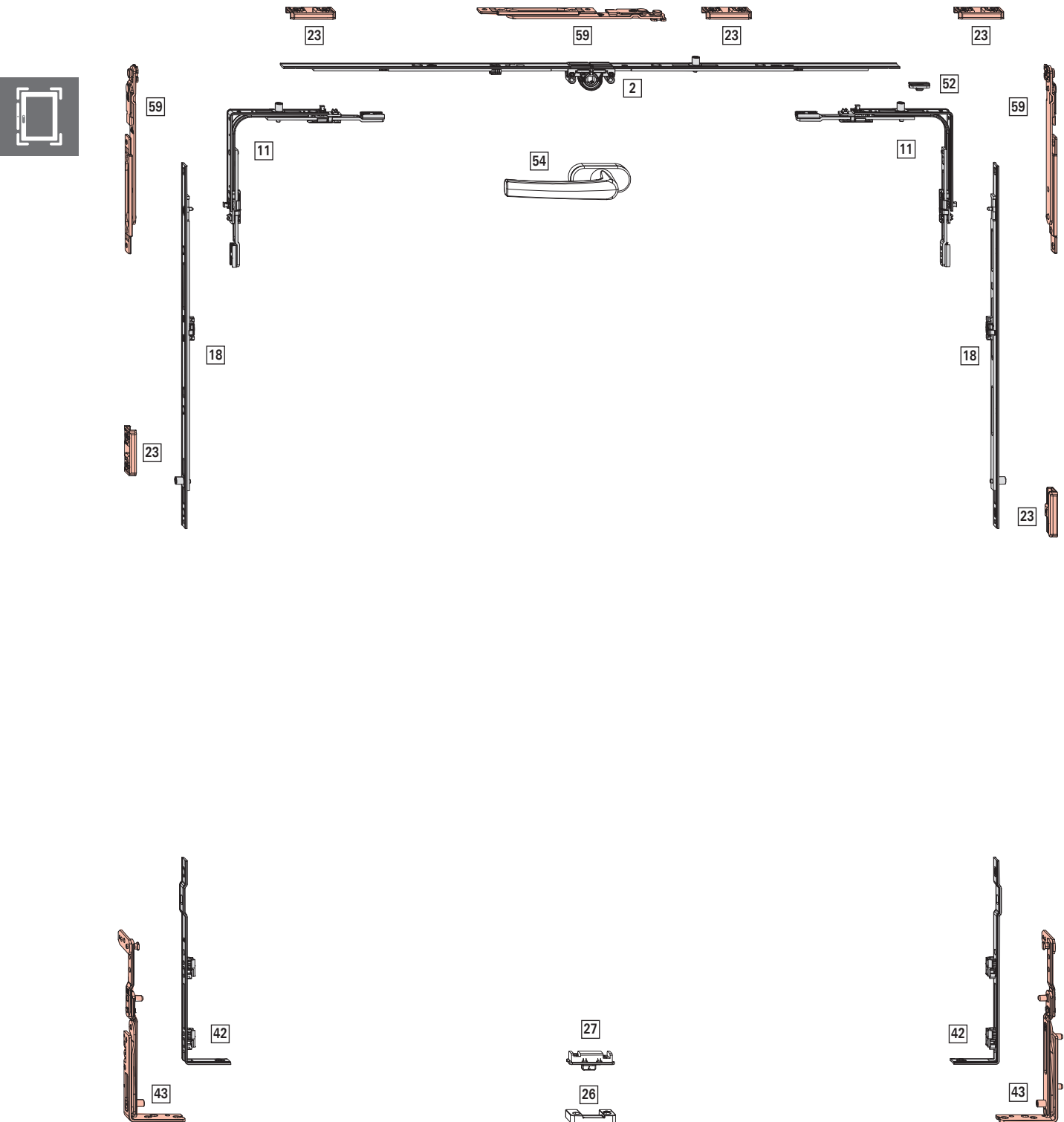
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3.3.2.4 Tilt-Only hardware

3.3.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[11]	Corner drive, standard → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 630</i>

Application range

Basic security		
	Sash rebate width (SRW)	450 – 1400 mm
	Sash rebate height (SRH)	370 – 1200 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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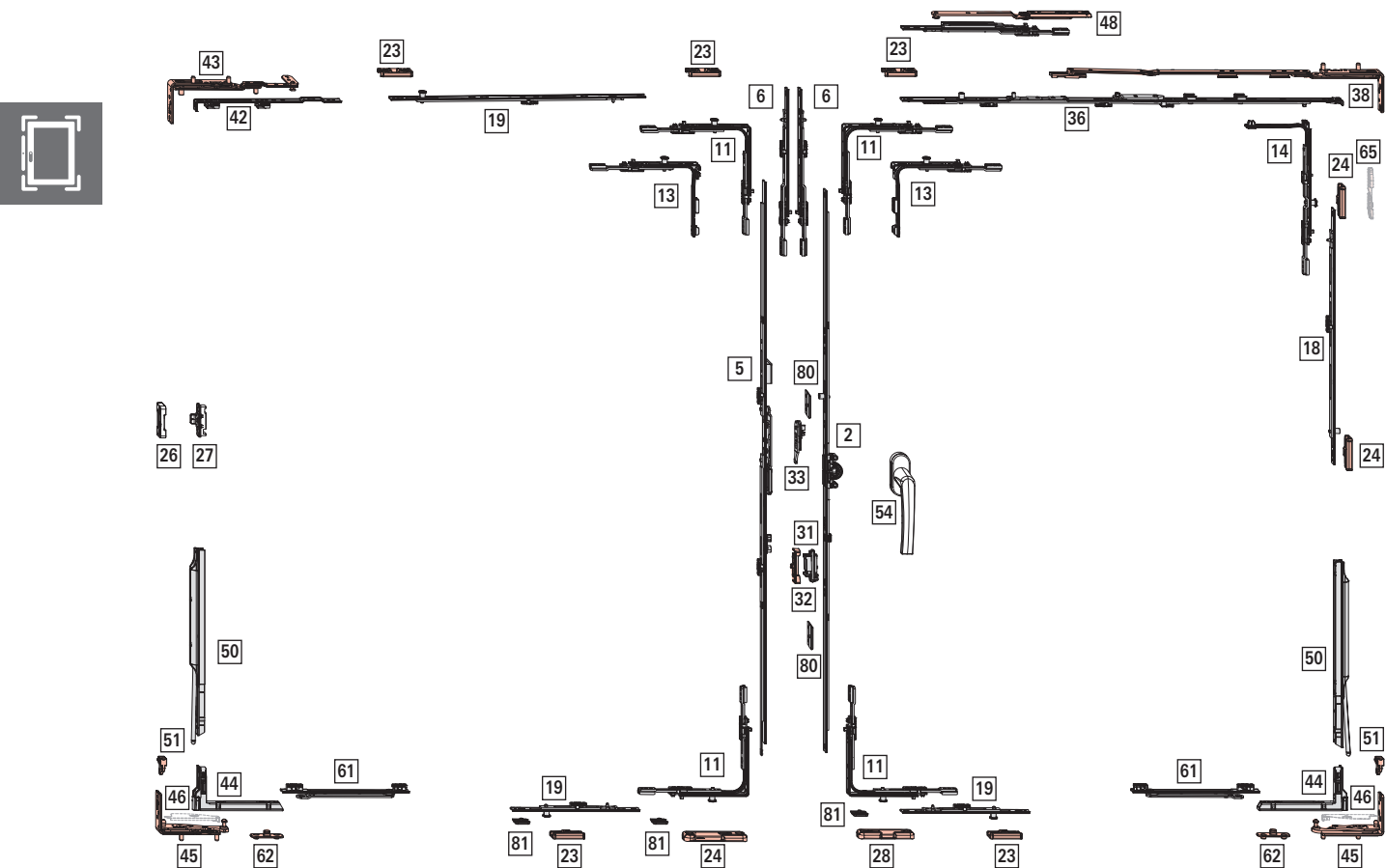
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3.3.2.5 Floating-mullion hardware – standard

3.3.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	370 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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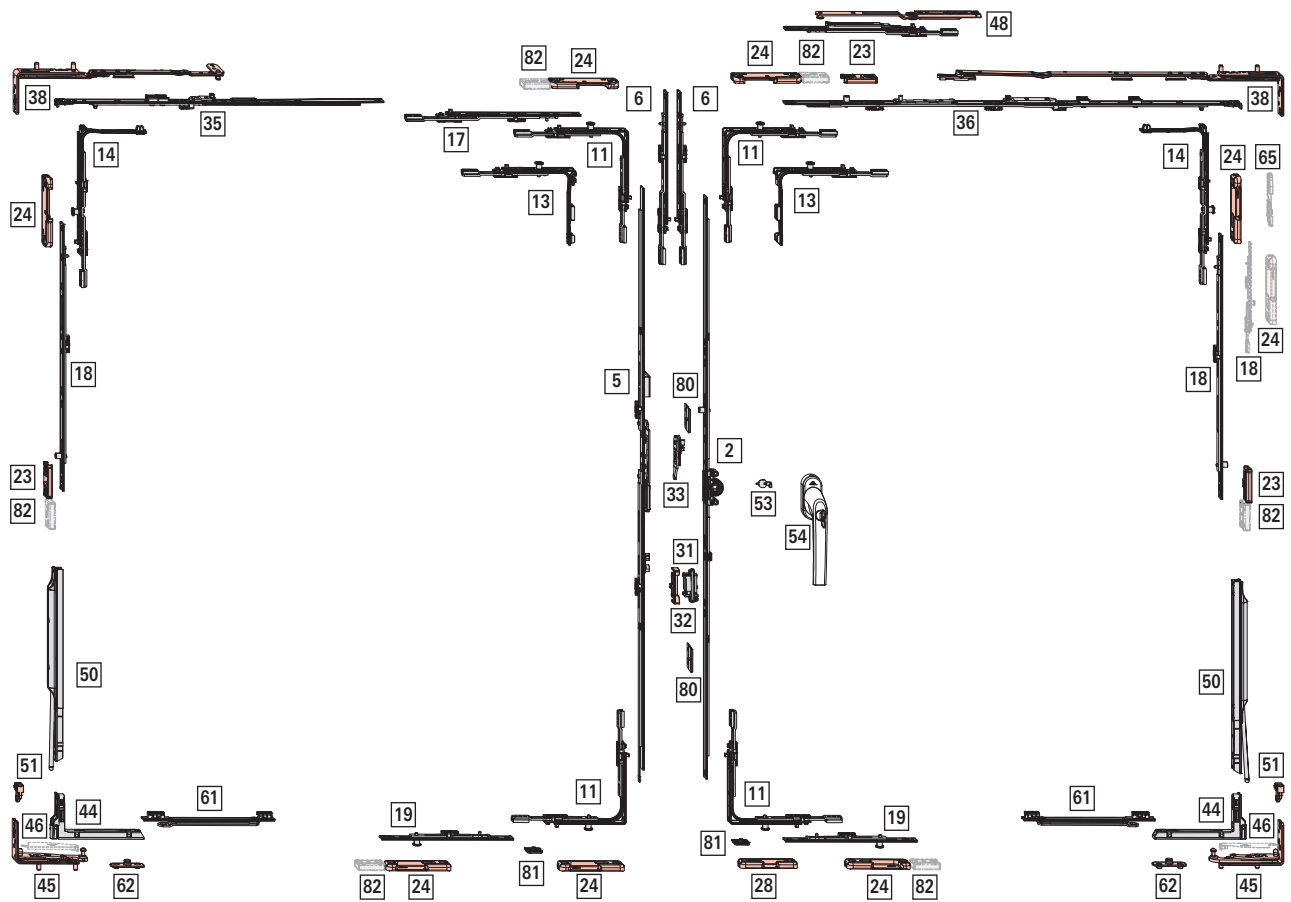
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3.3.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	370 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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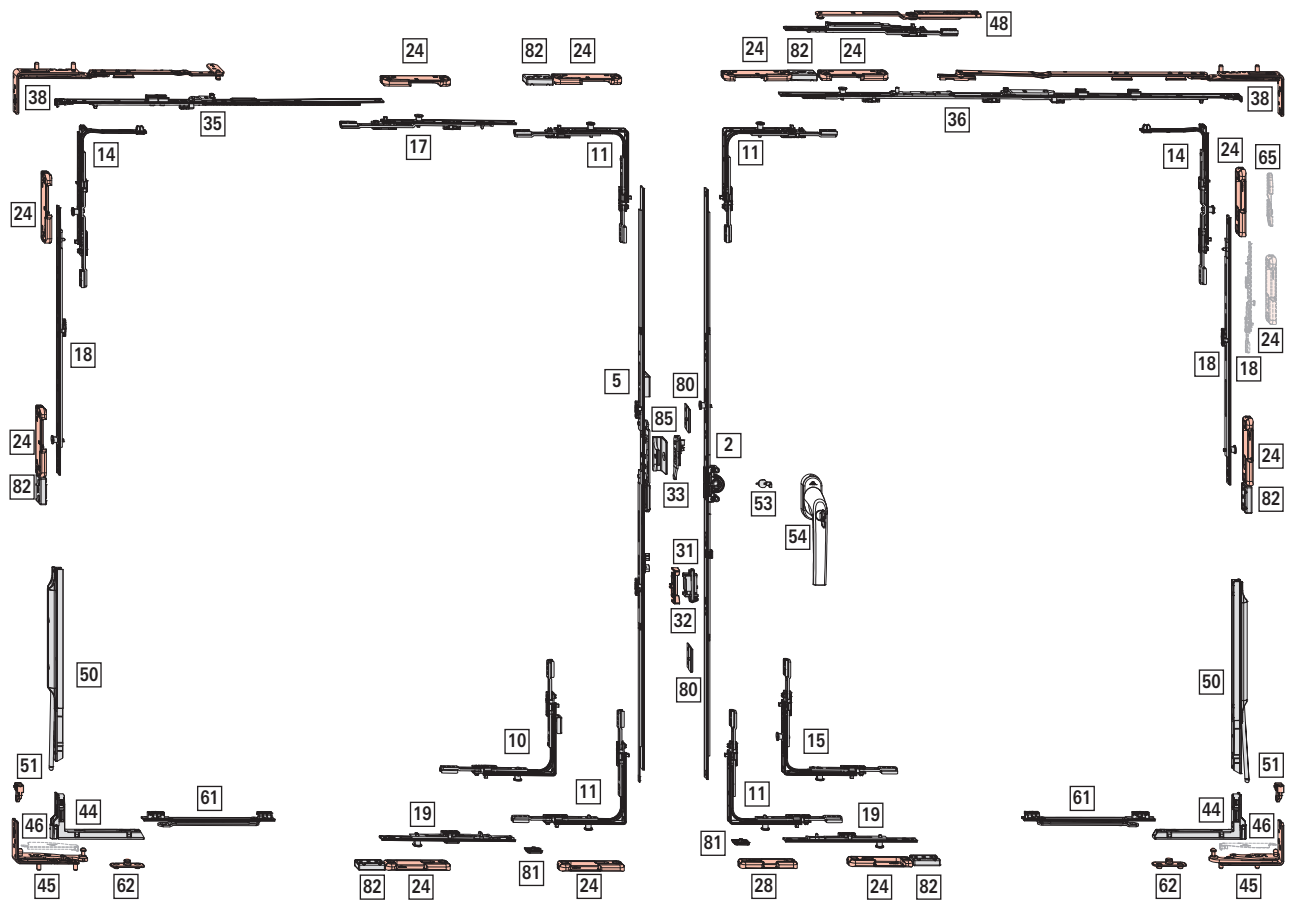
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.3.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp for lever-operated espagnolette → <i>662</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	520 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



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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.

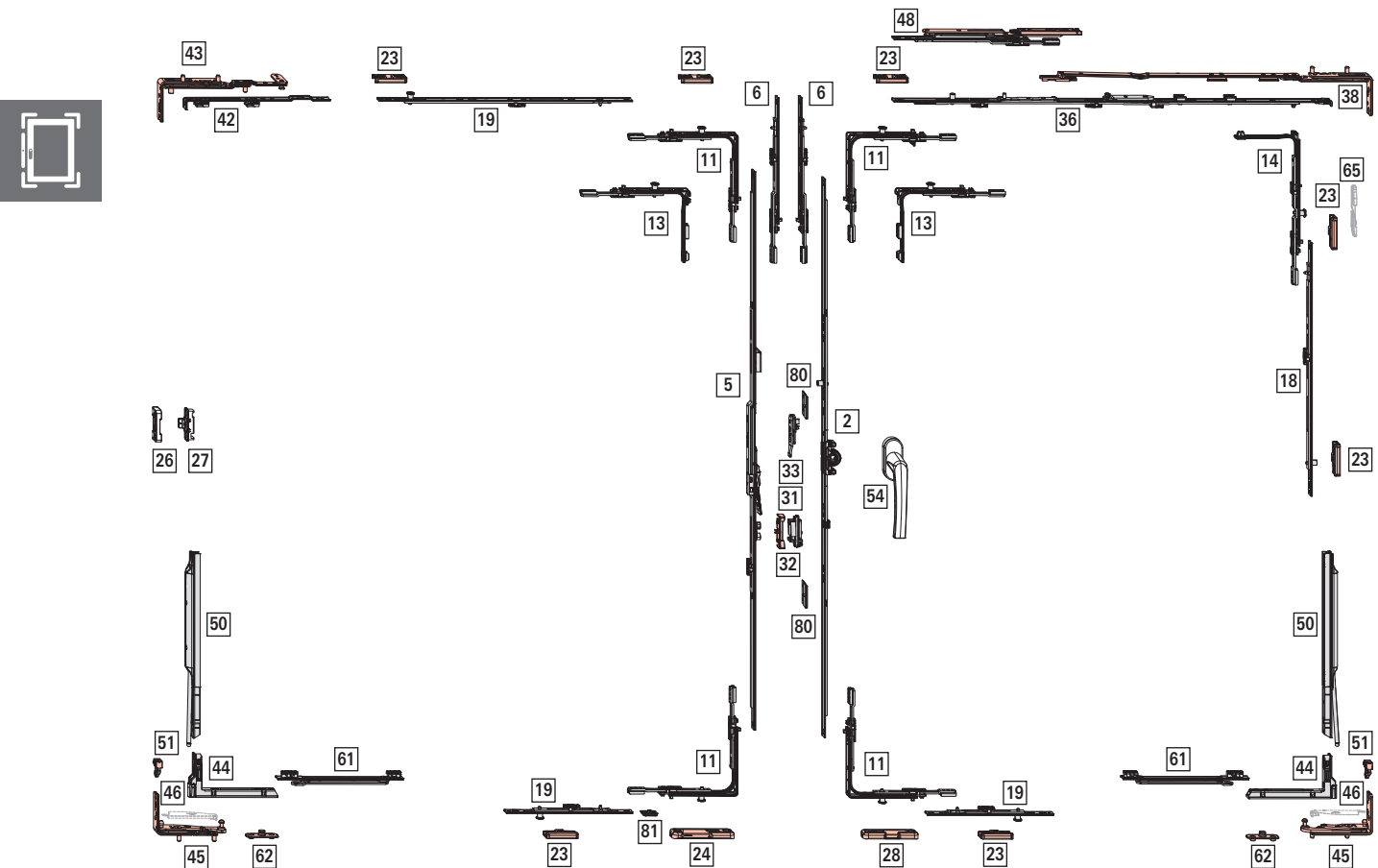


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3.3.2.6 Floating-mullion hardware – Plus

3.3.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 550</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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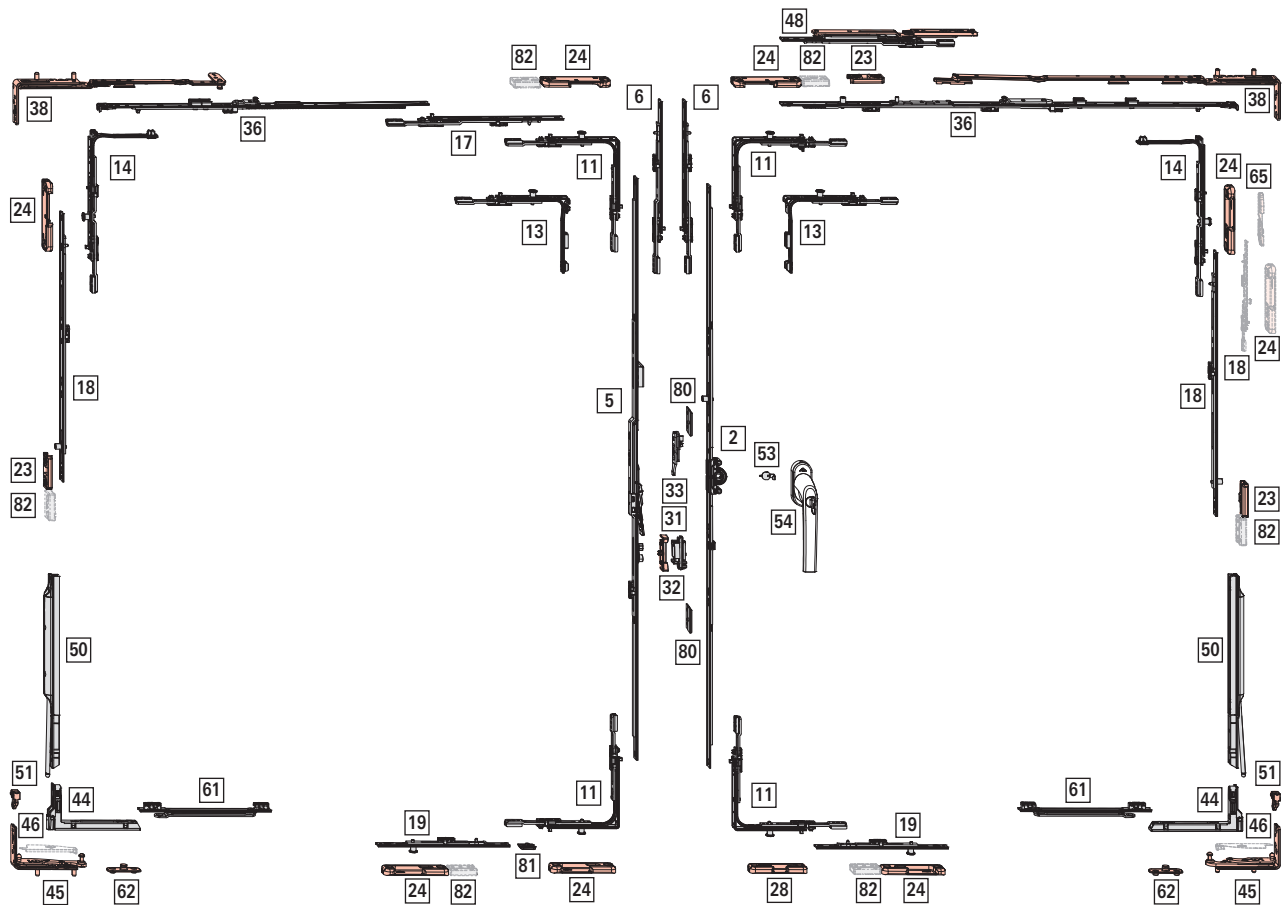
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.3.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

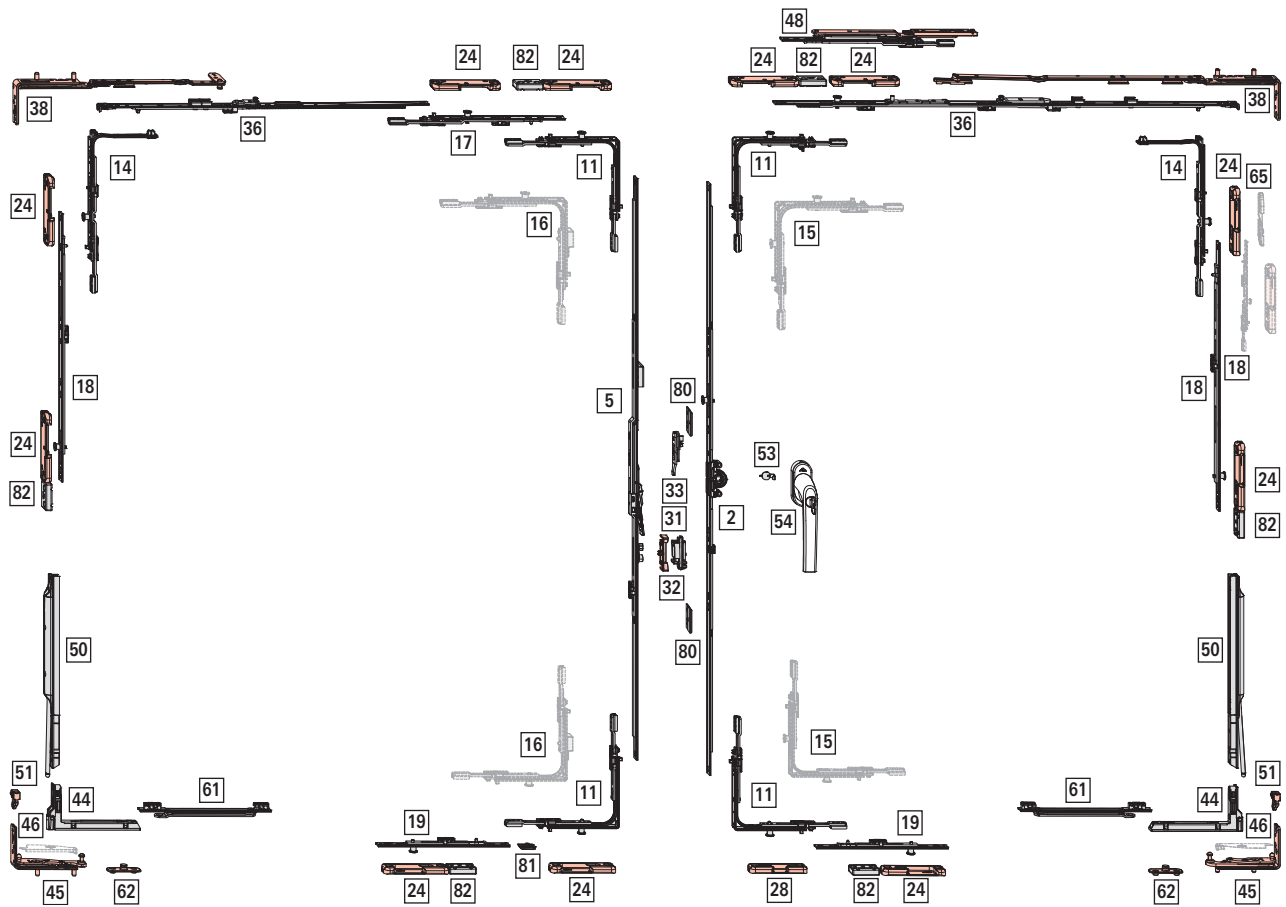
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3.3.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 510</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 539</i>
[44]	Corner hinge → <i>from page 590</i>
[45]	Pivot rest → <i>from page 600</i>
[46]	Pivot rest cover (optional) → <i>from page 600</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 660</i>
[62]	Turn restrictor 198, frame component → <i>from page 660</i>
[65]	Anti-slam device → <i>from page 676</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	450 – 1400 mm	800 – 1400 mm
	Sash rebate height (SRH)	520 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	80 – 150 kg



INFO

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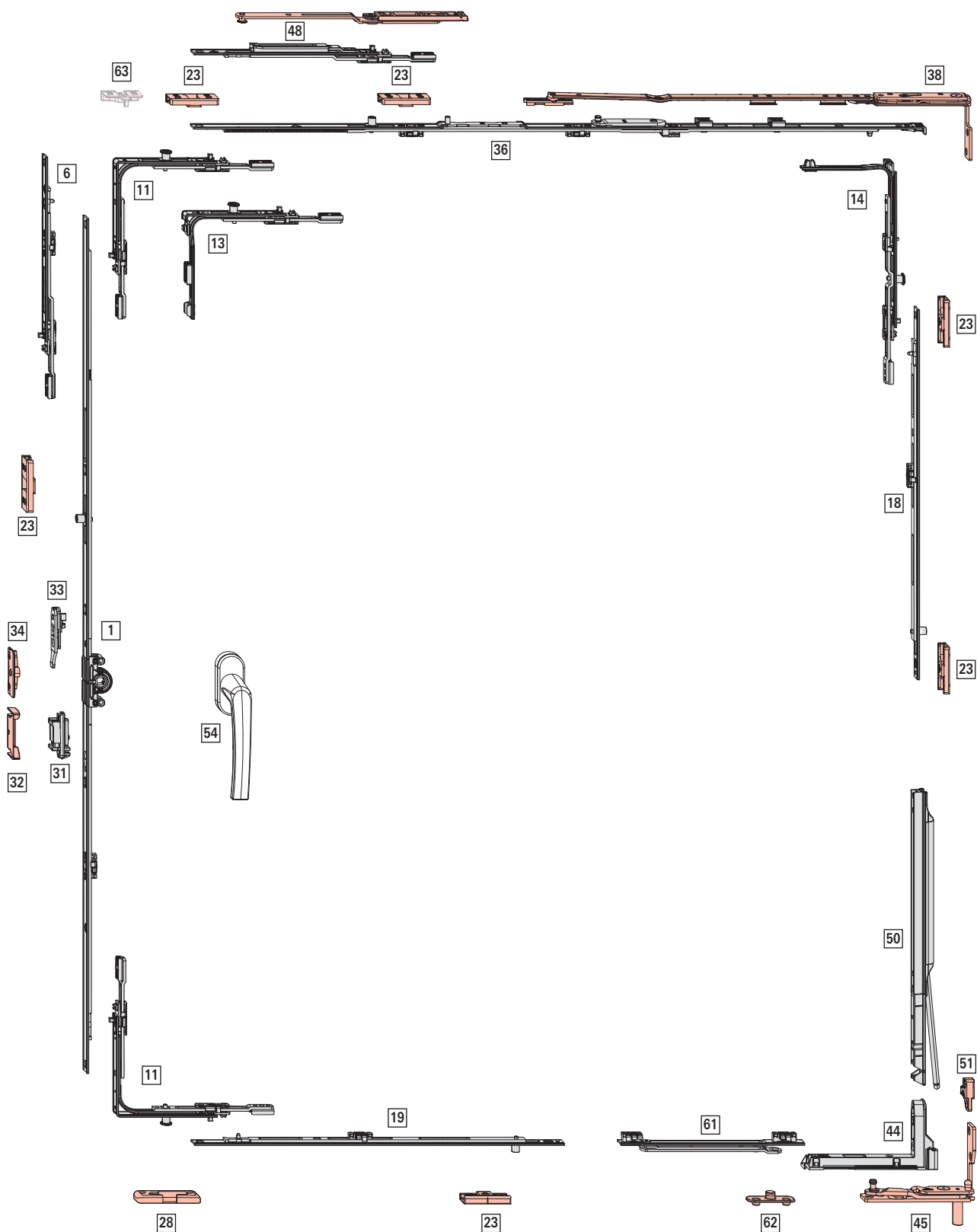
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3.4 Hinge side Designo (HA 9)

3.4.1 T&T espagnolette, VT – fixed handle height

3.4.1.1 Tilt&Turn hardware

3.4.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

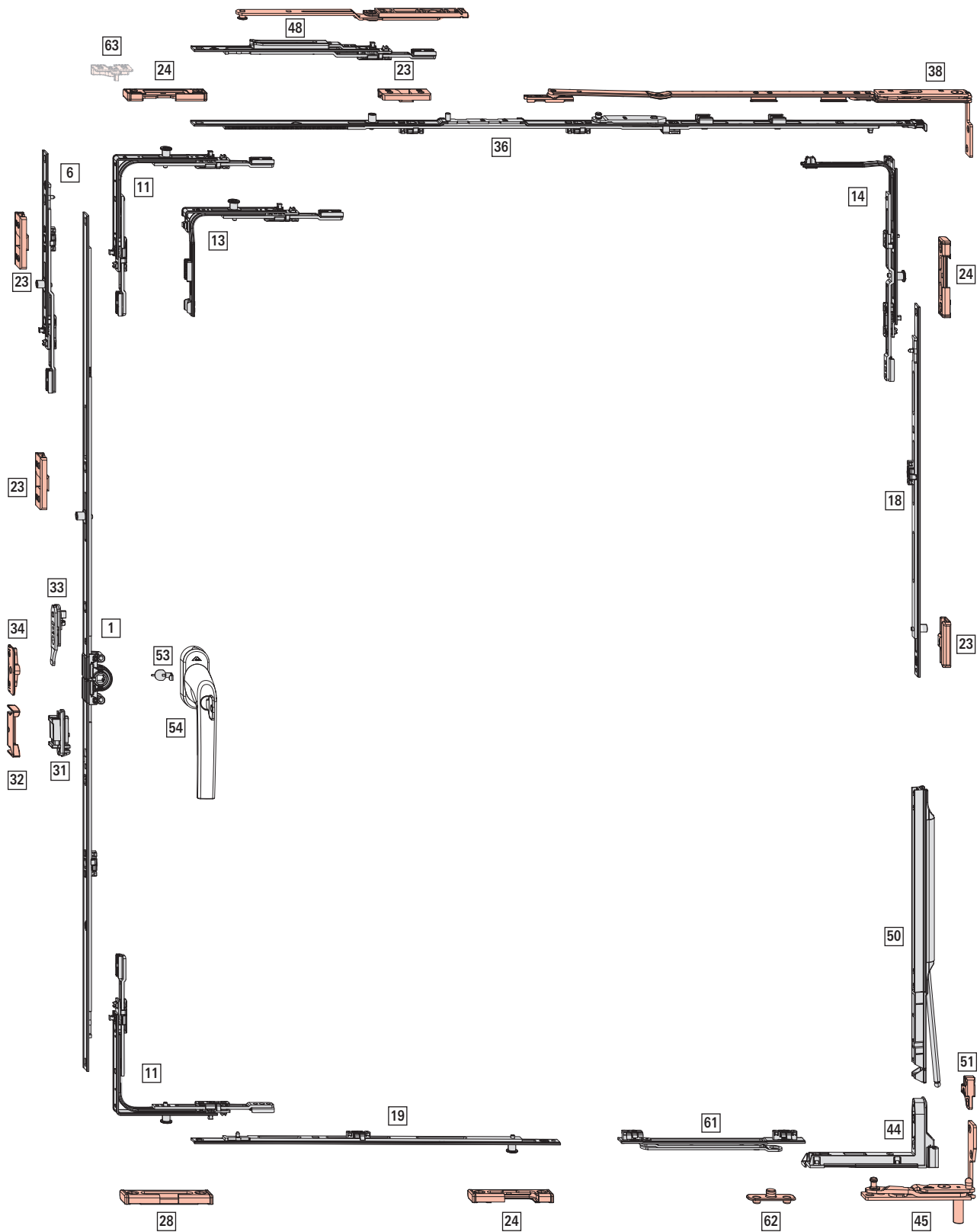
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3.4.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

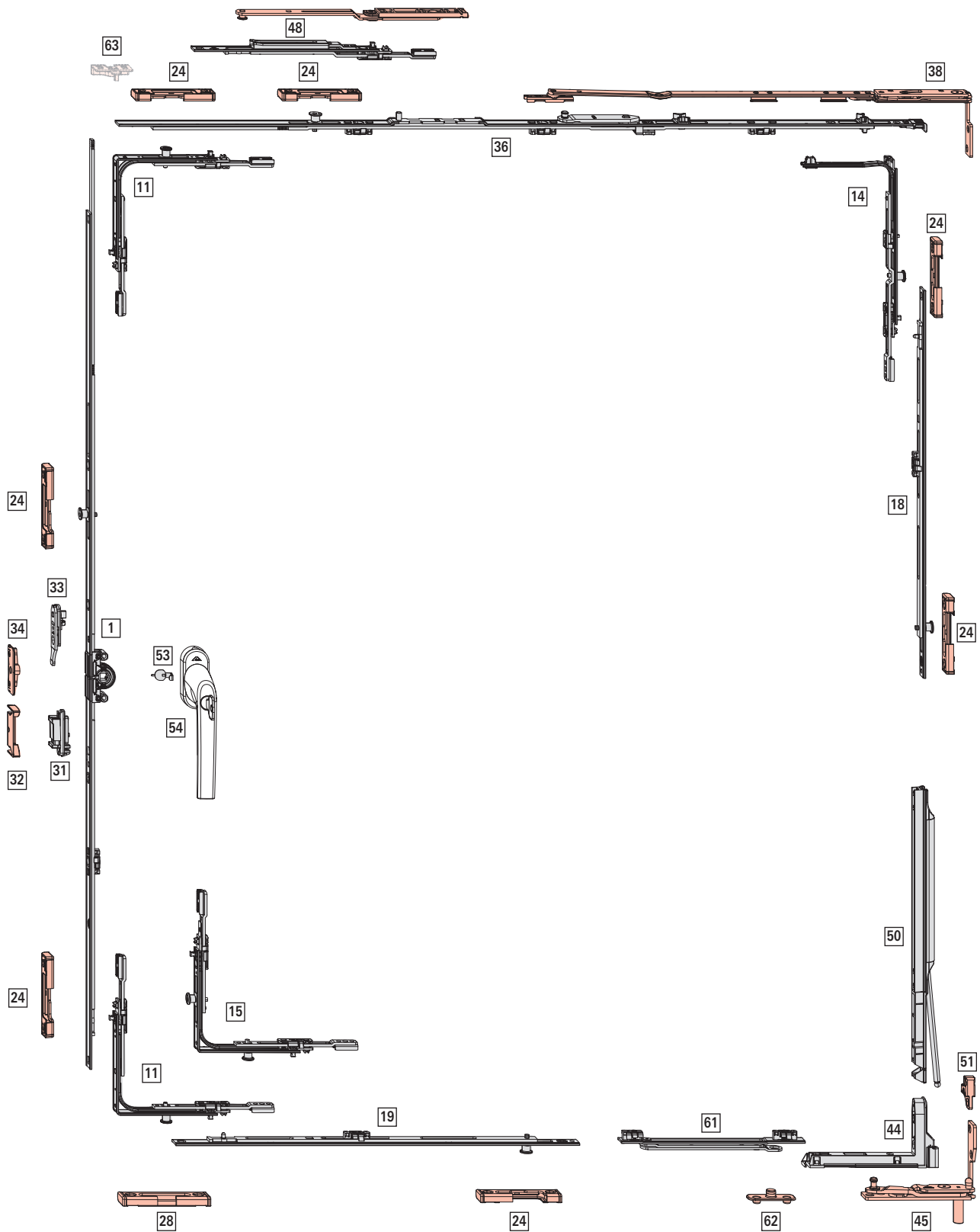
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Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application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



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3.4.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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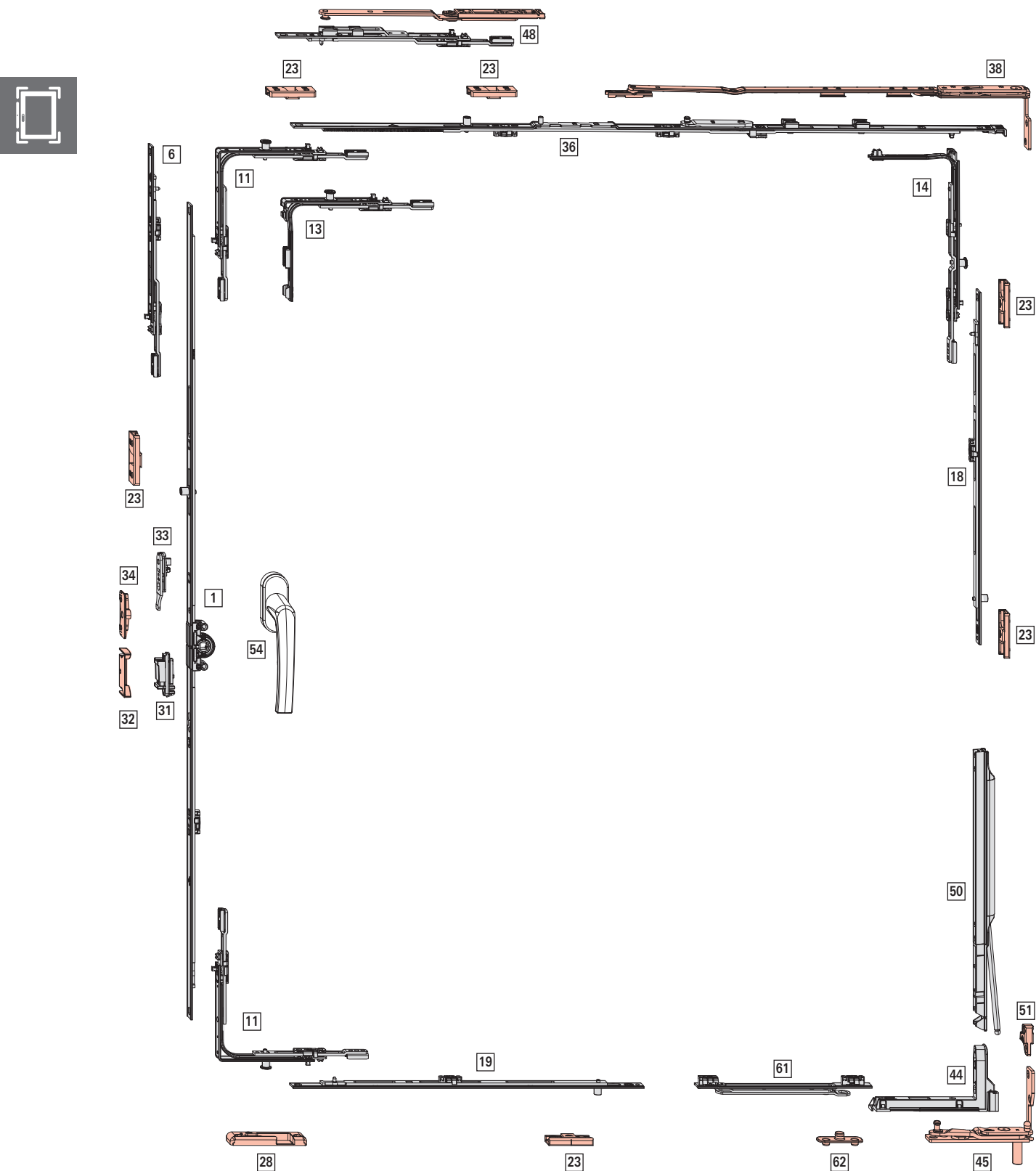
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3.4.1.2 TiltFirst hardware

3.4.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm, TiltFirst → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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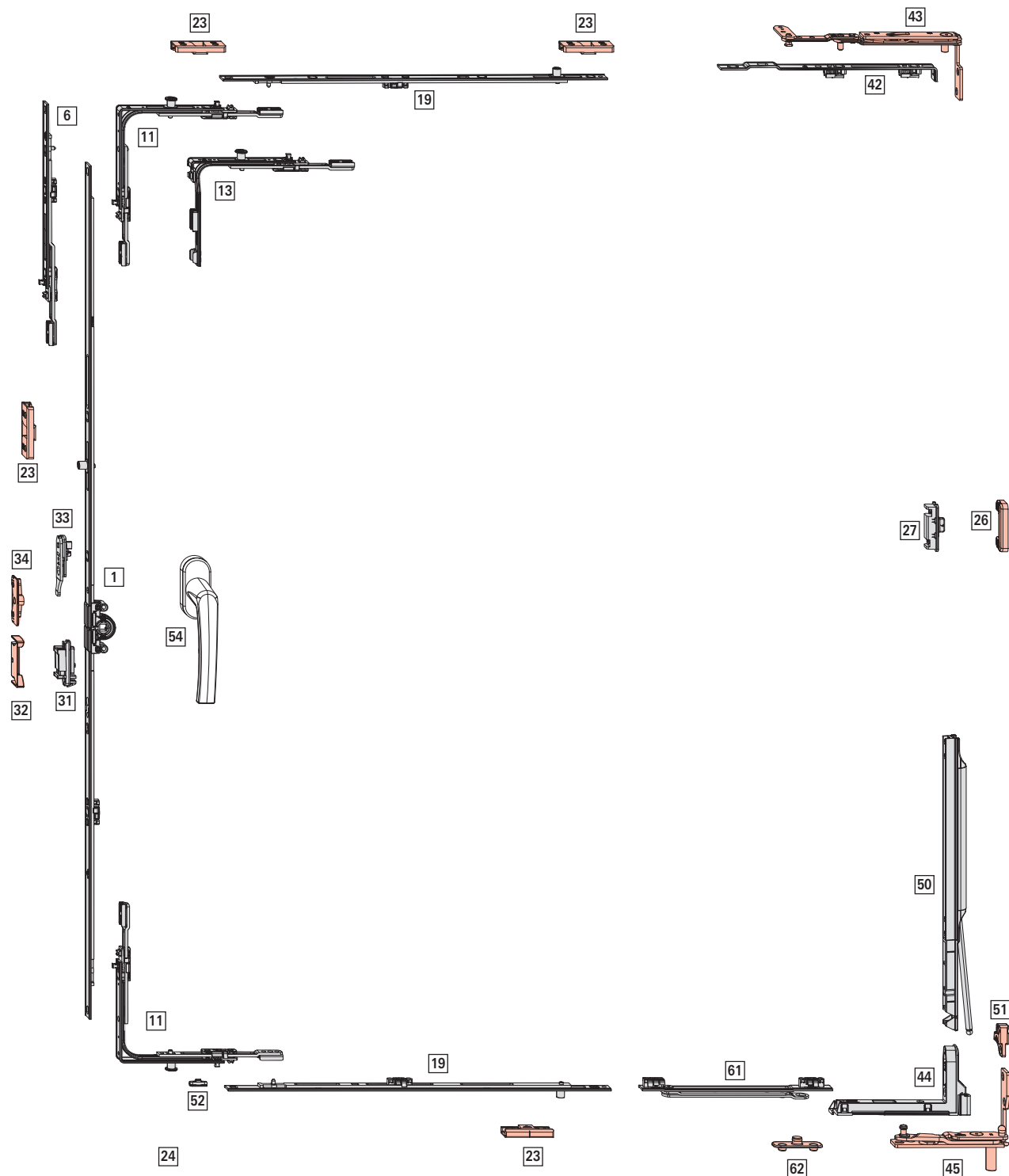
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.4.1.3 Turn-Only hardware

3.4.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	350 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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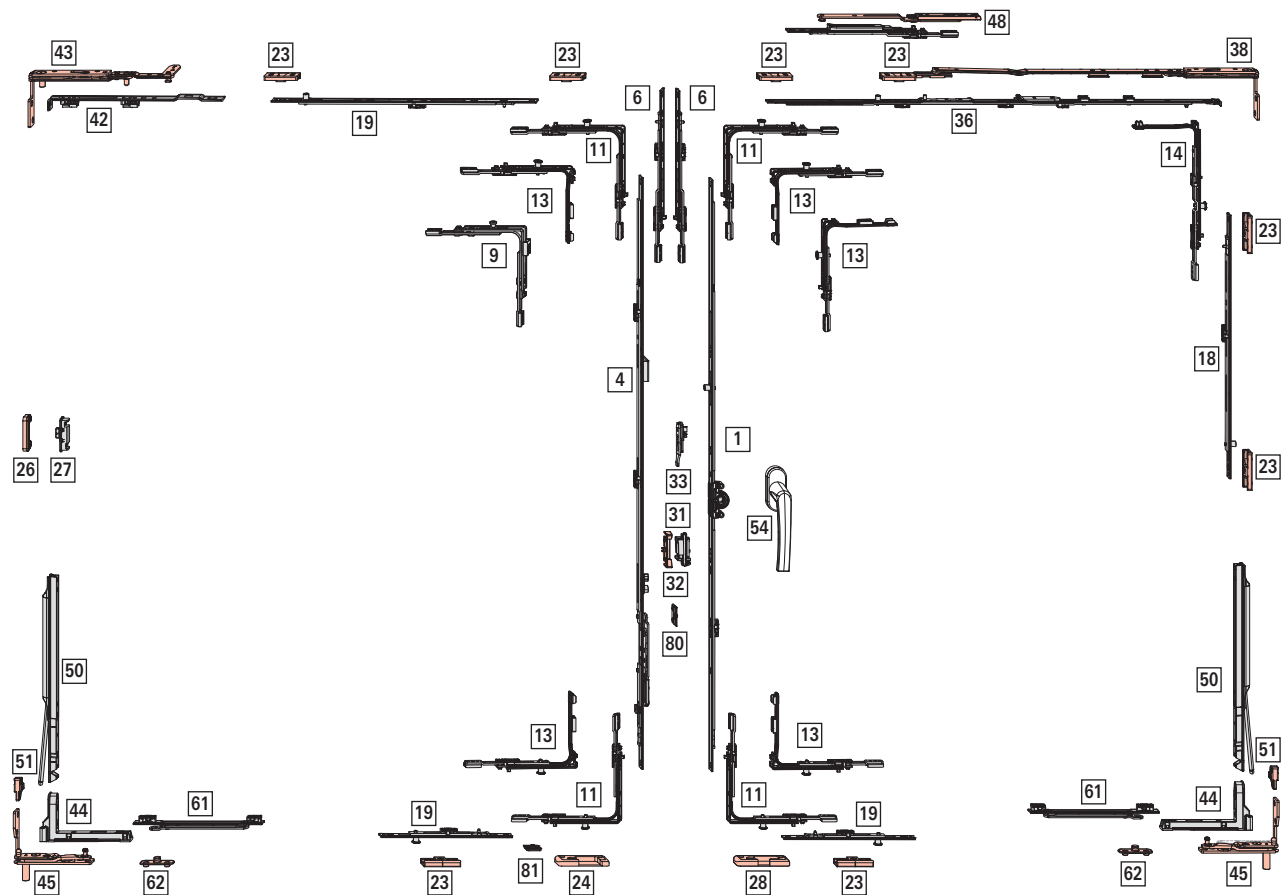
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3.4.1.4 Floating-mullion hardware – standard

3.4.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	350 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	370 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

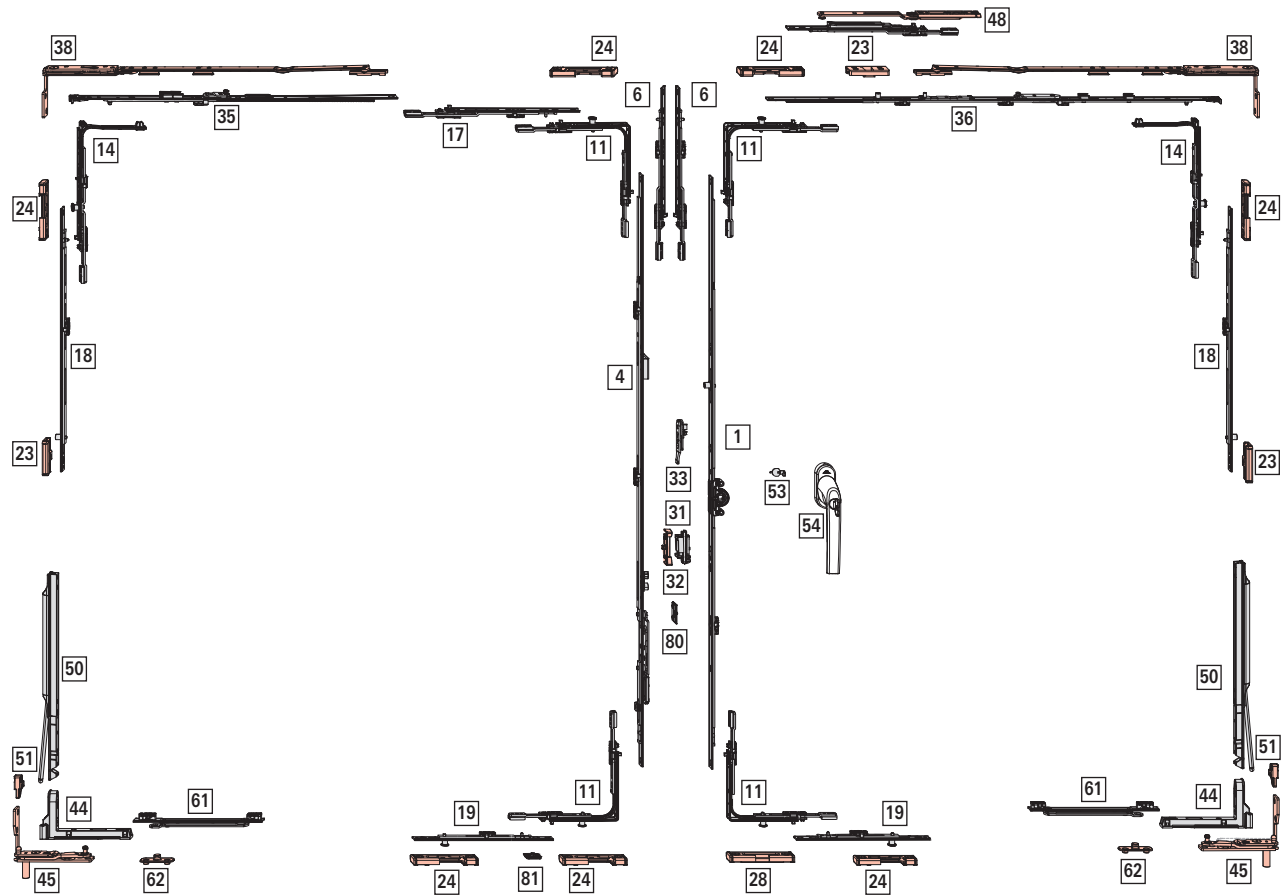
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3.4.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	450 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

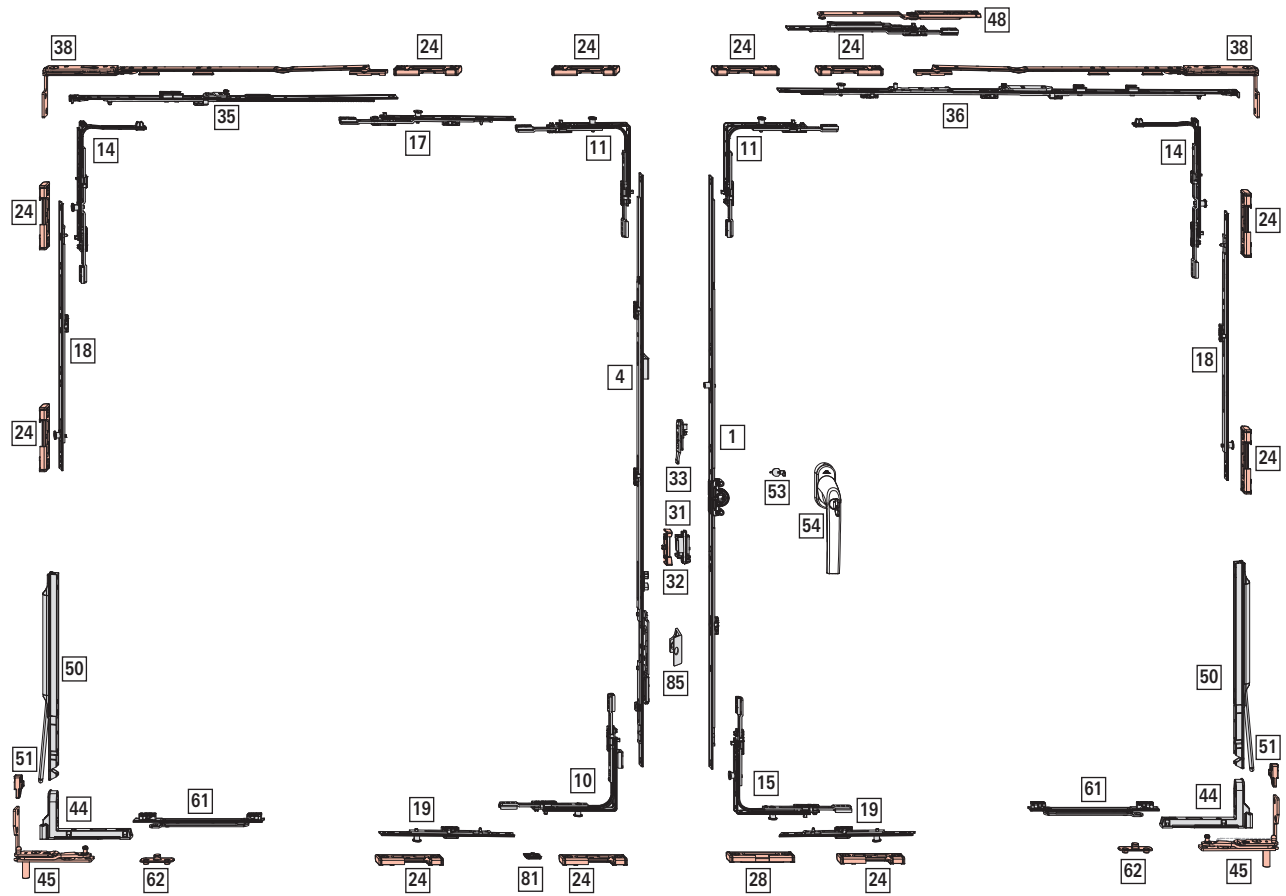
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3.4.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[81]	Run-up block → <i>from page 667</i>
[85]	Retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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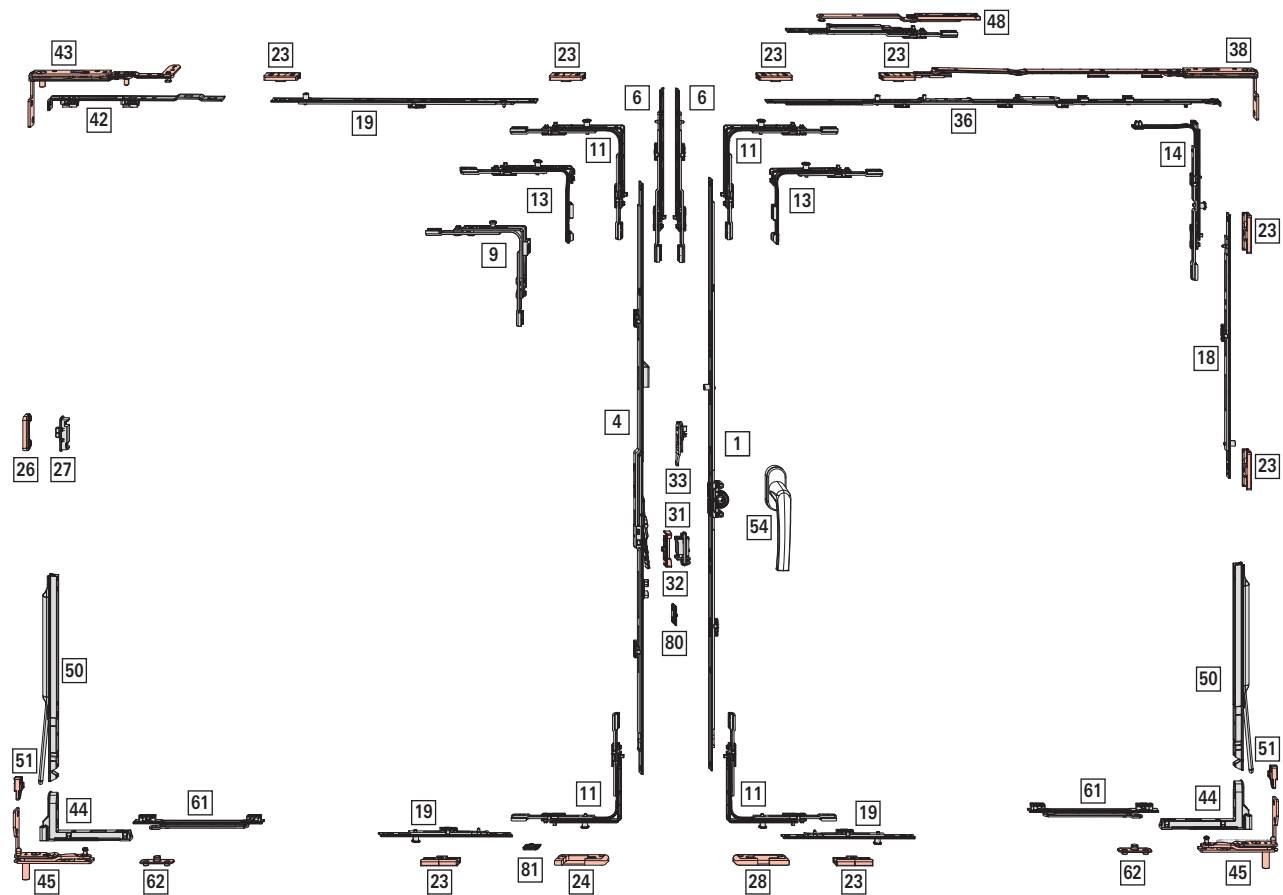
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3.4.1.5 Floating-mullion hardware – Plus

3.4.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	370 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

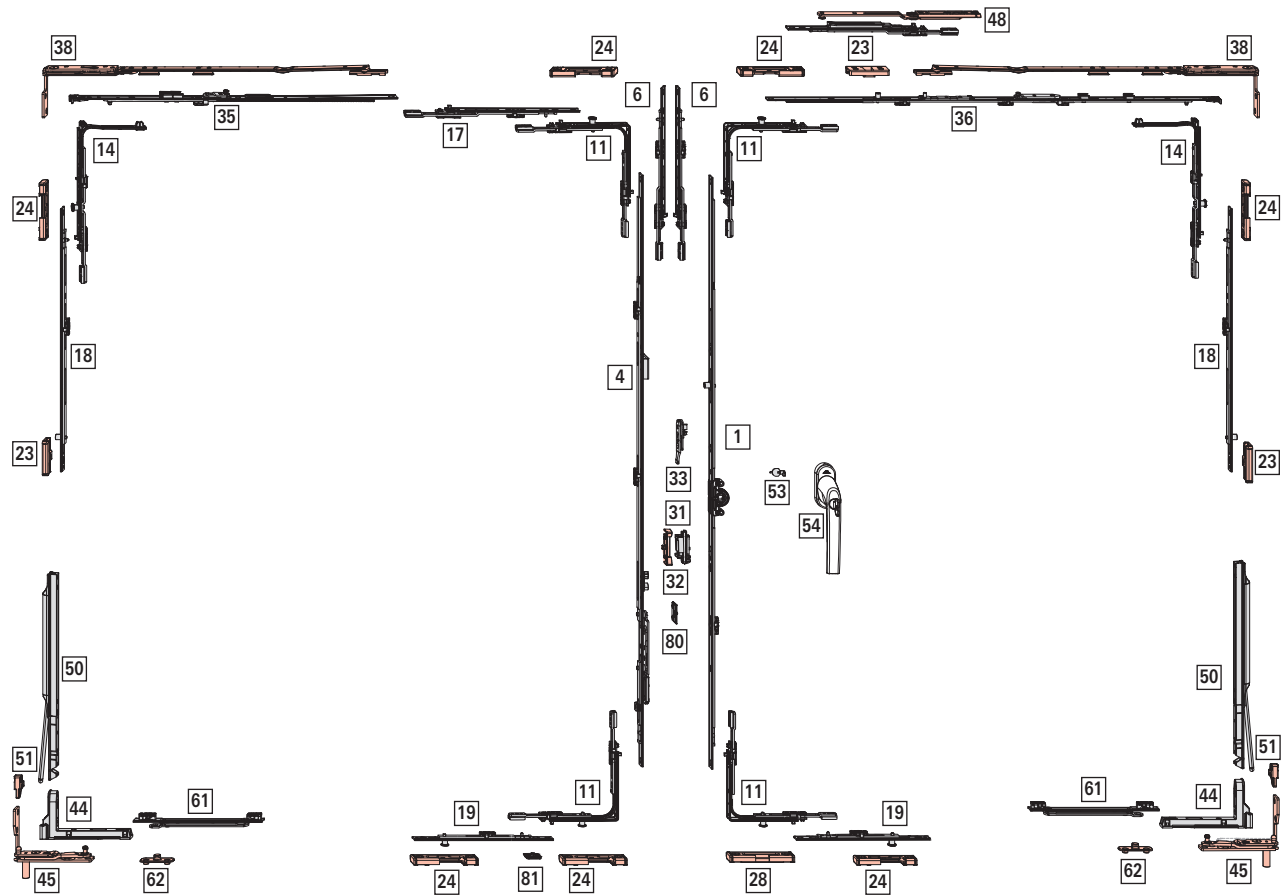
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3.4.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	430 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

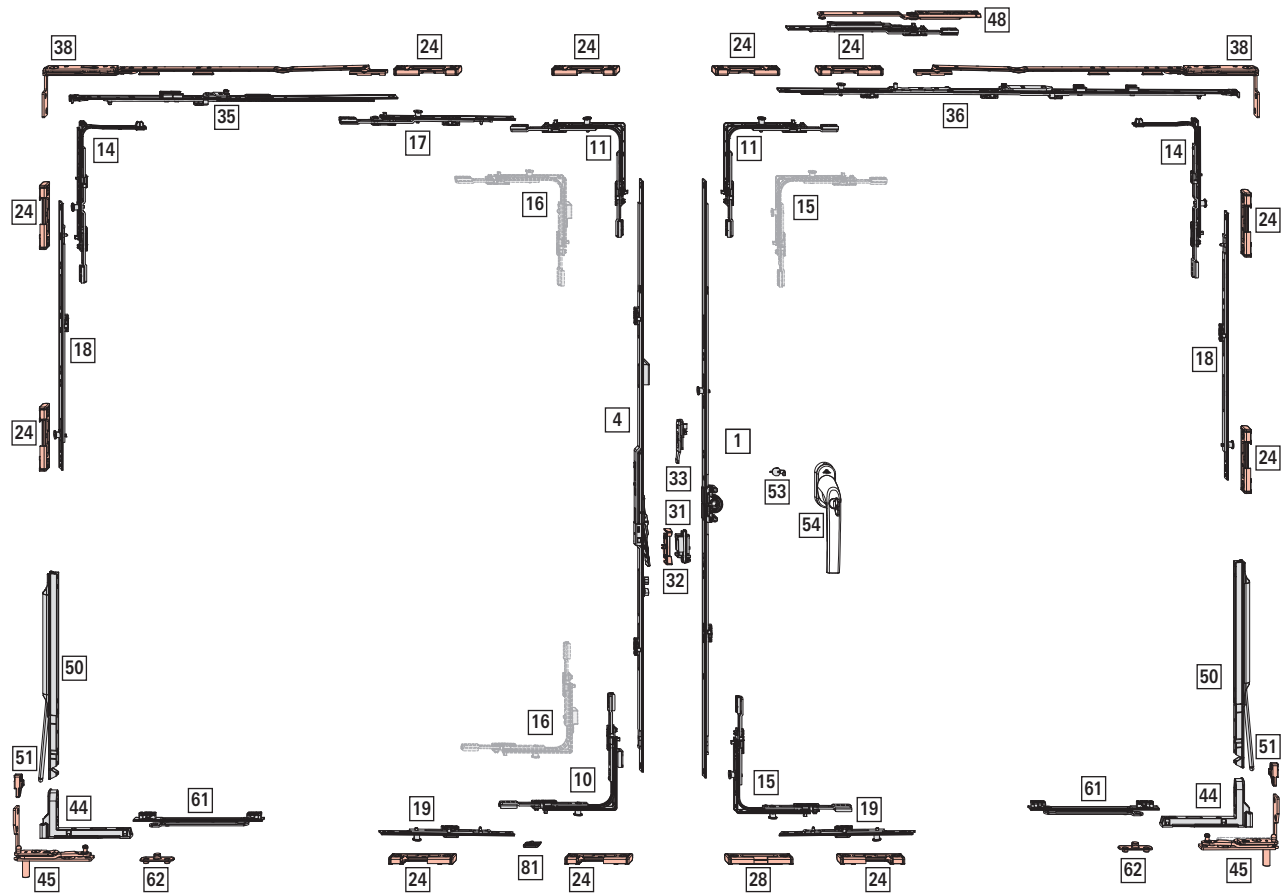
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3.4.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	600 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



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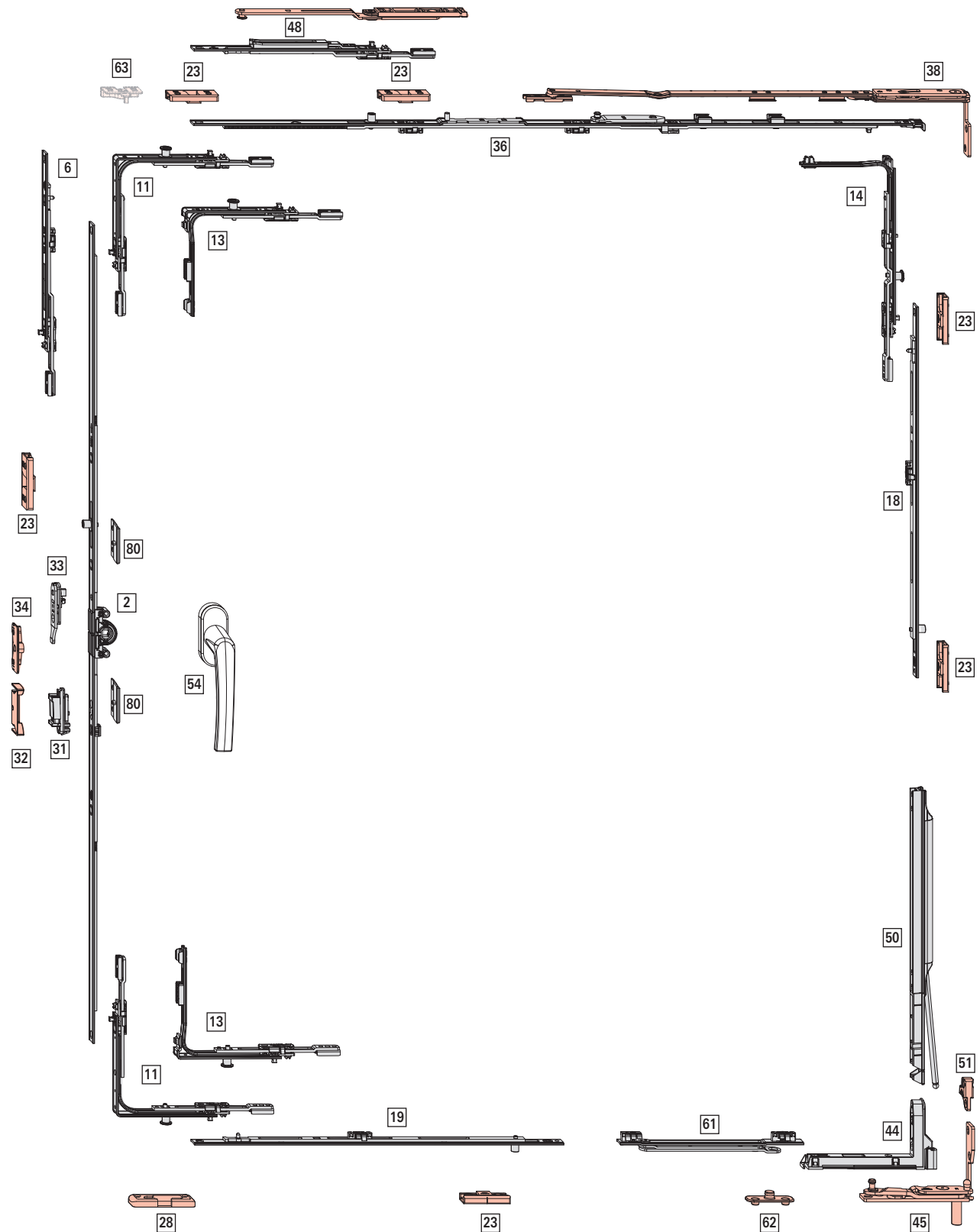


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3.4.2 T&T espagnolette – centred / variable handle height

3.4.2.1 Tilt&Turn hardware

3.4.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

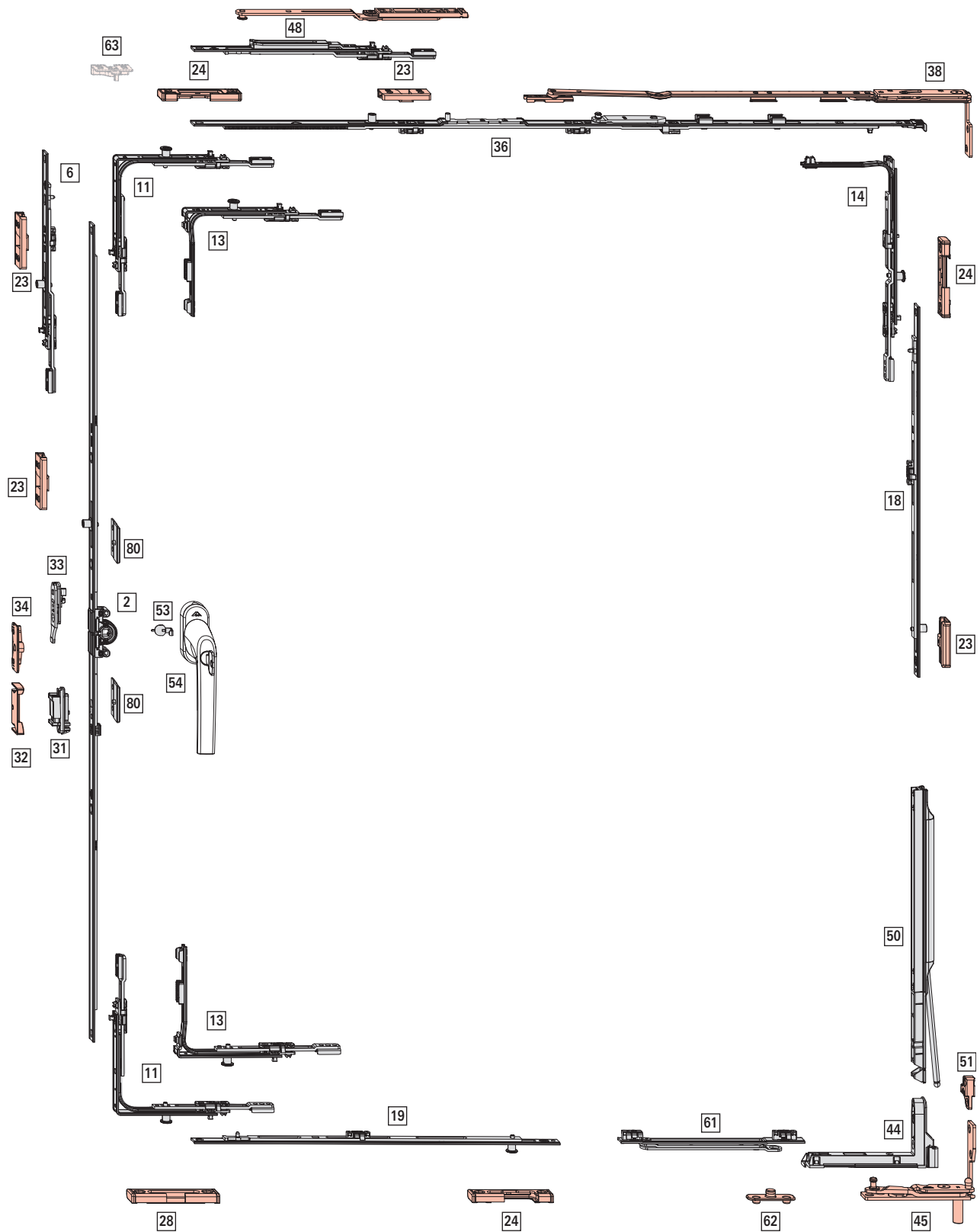
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3.4.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

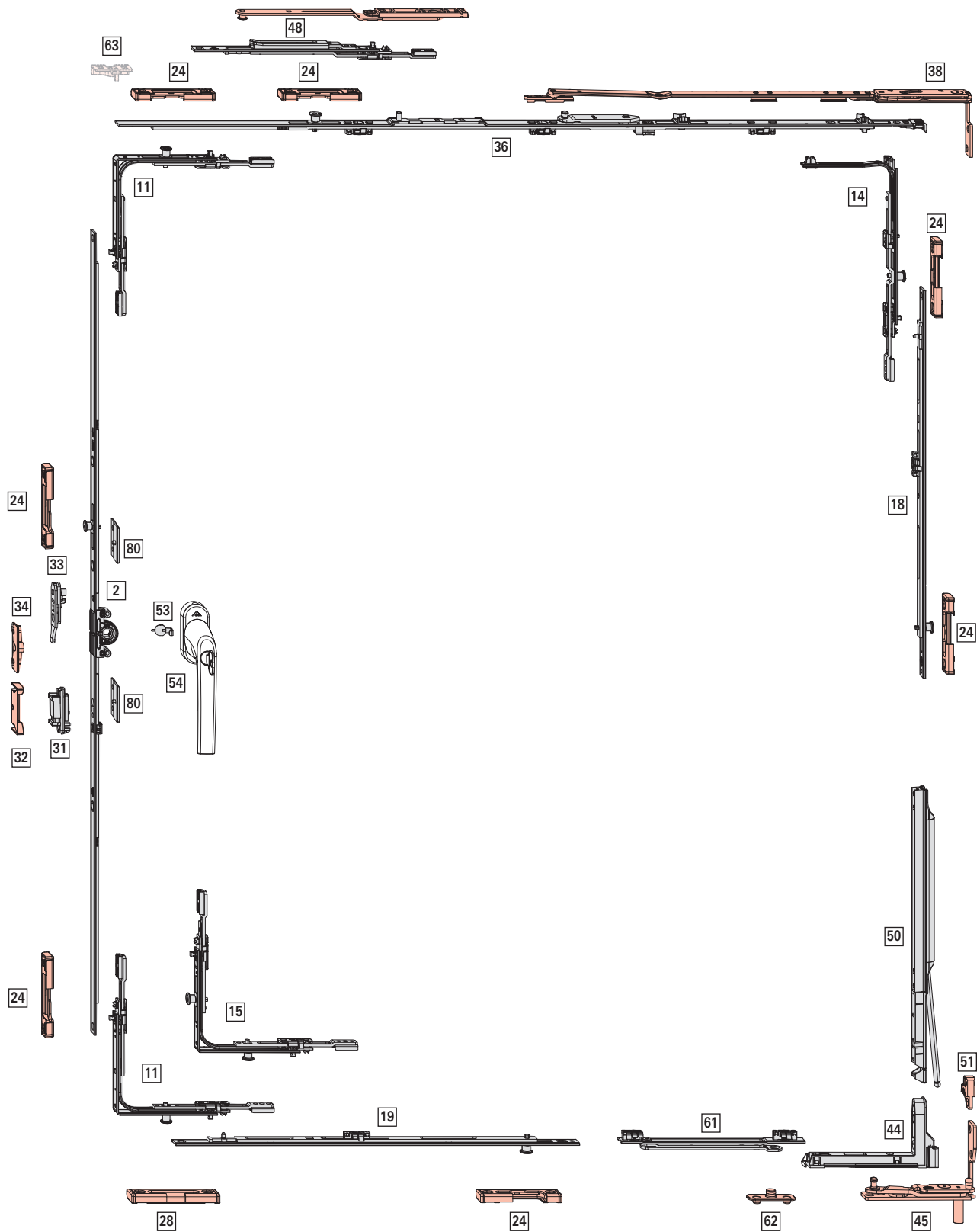
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3.4.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[63]	Night vent → <i>from page 650</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

		Basic security	
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	490 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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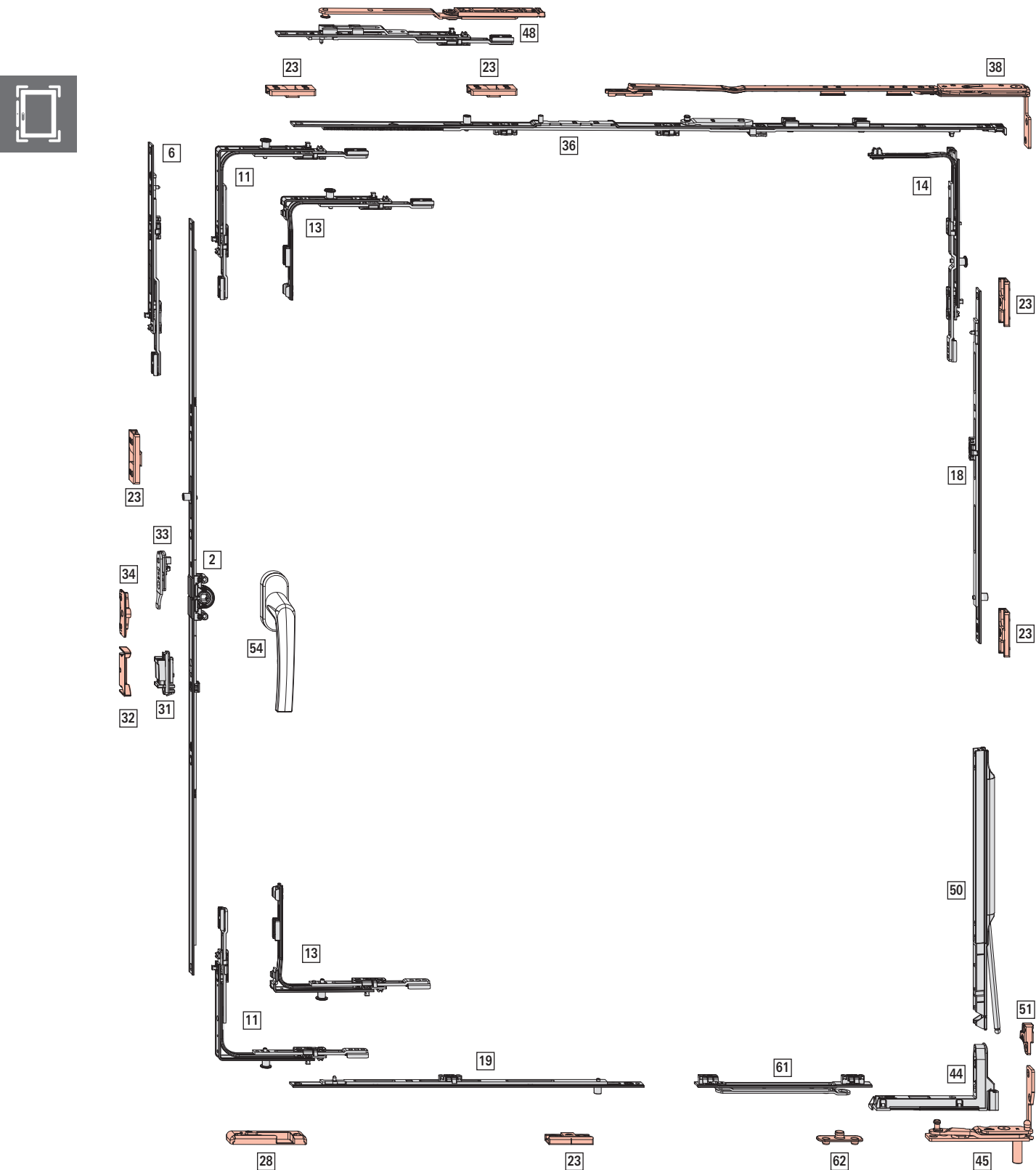
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.4.2.2 TiltFirst hardware

3.4.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm, TiltFirst → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	330 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	280 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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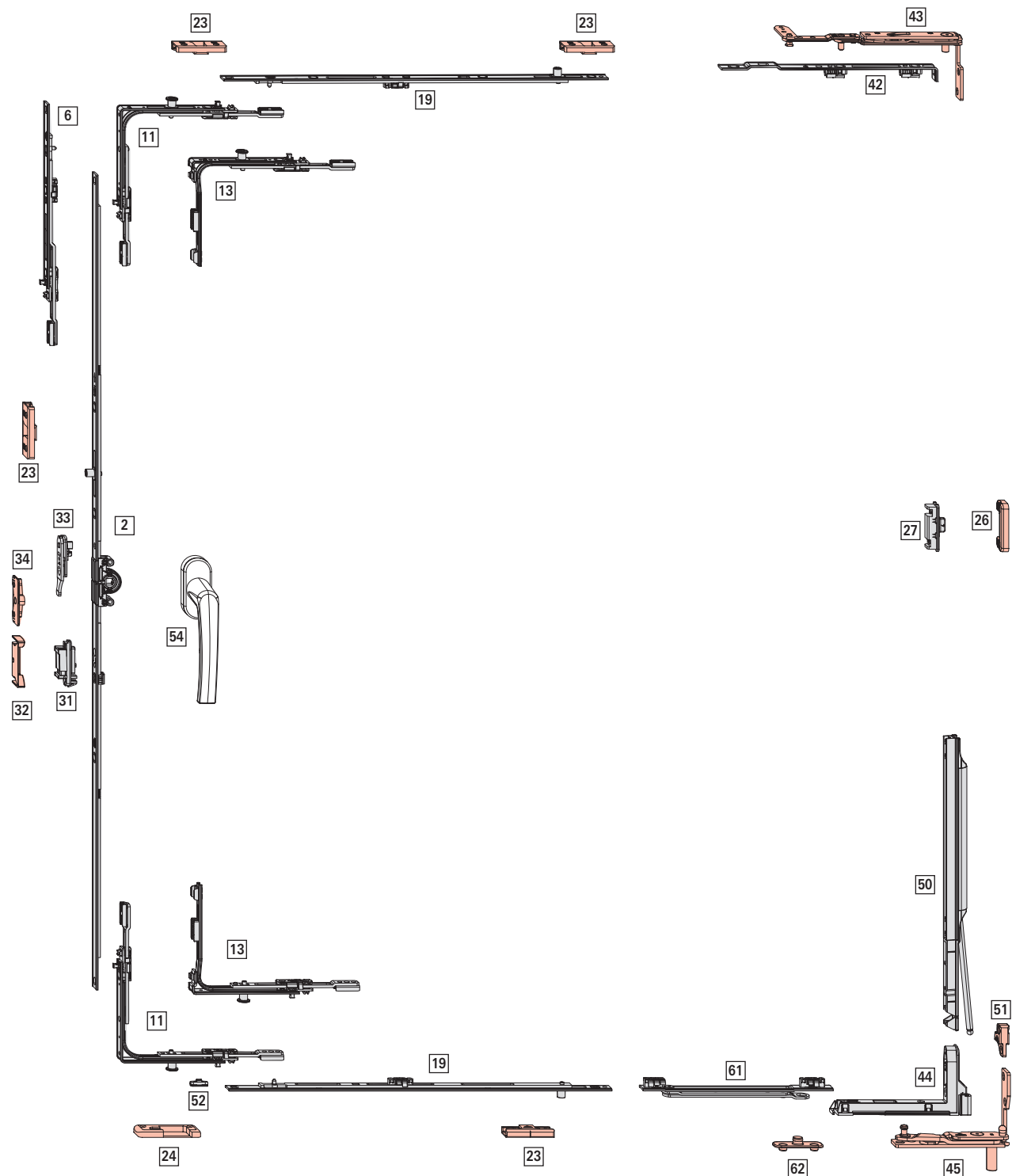
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.4.2.3 Turn-Only hardware

3.4.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	350 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	310 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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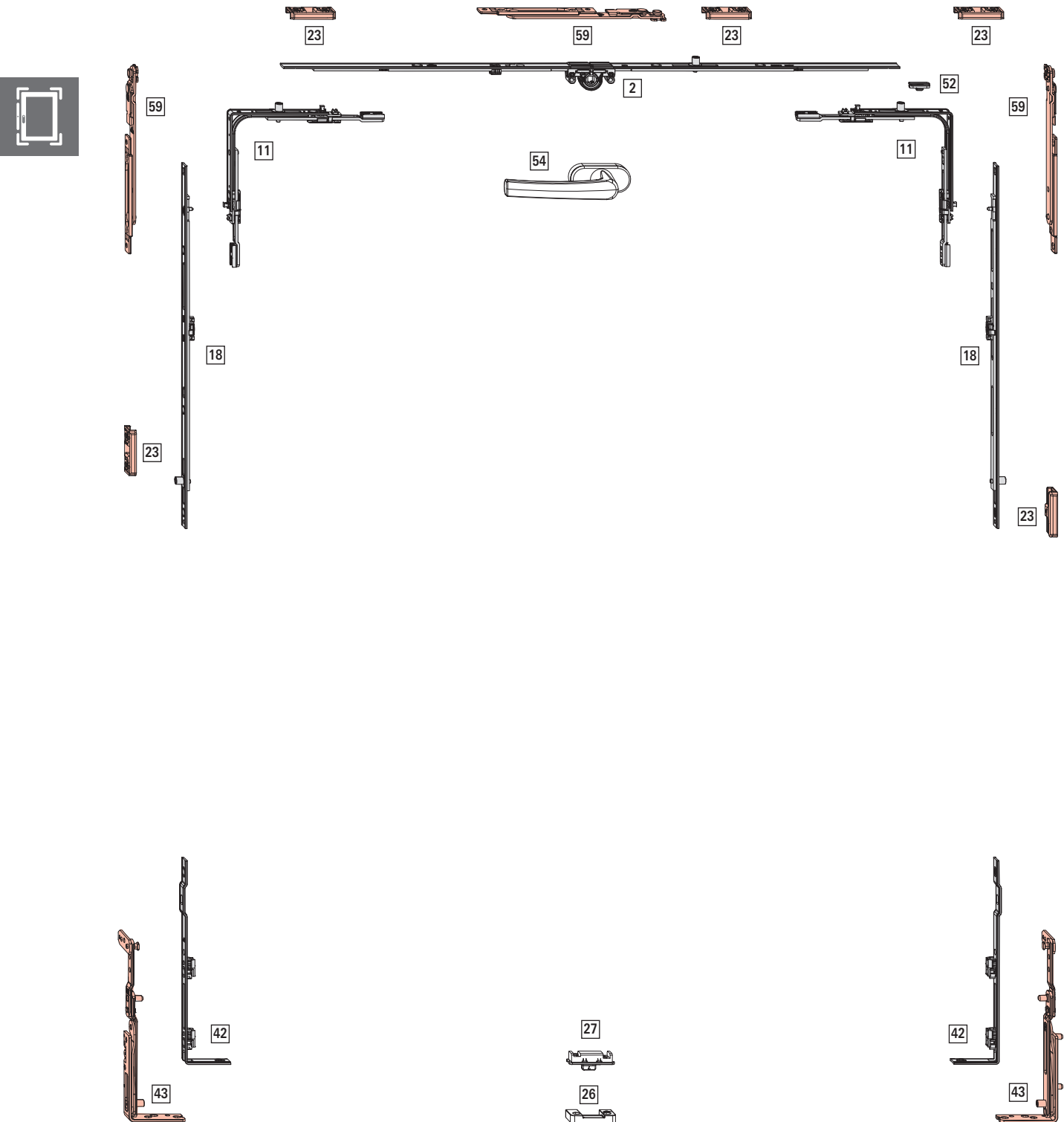
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.4.2.4 Tilt-Only hardware

3.4.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 630</i>

Application range

Basic security		
	Sash rebate width (SRW)	450 – 1400 mm
	Sash rebate height (SRH)	370 – 1200 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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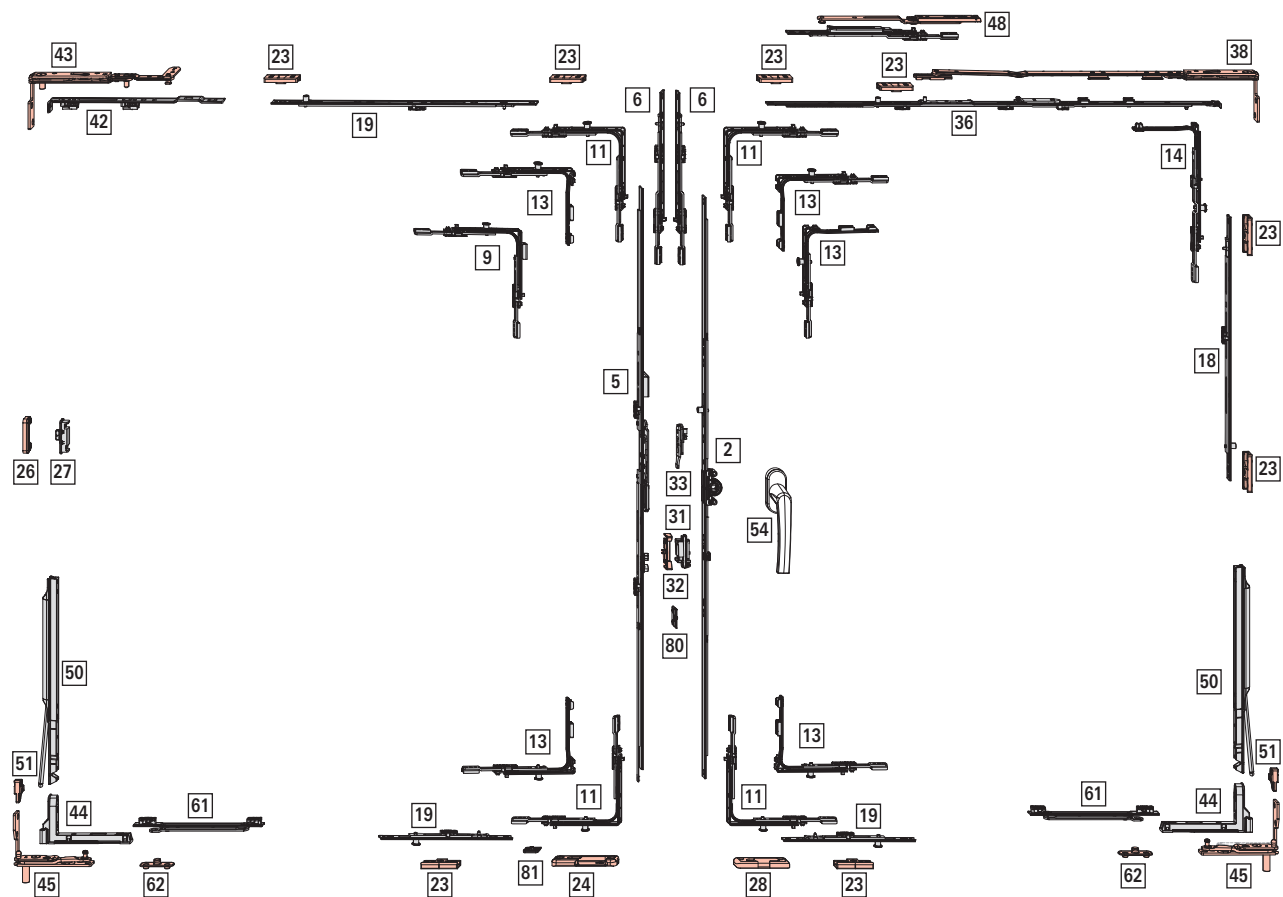
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.4.2.5 Floating-mullion hardware – standard

3.4.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	350 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	370 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

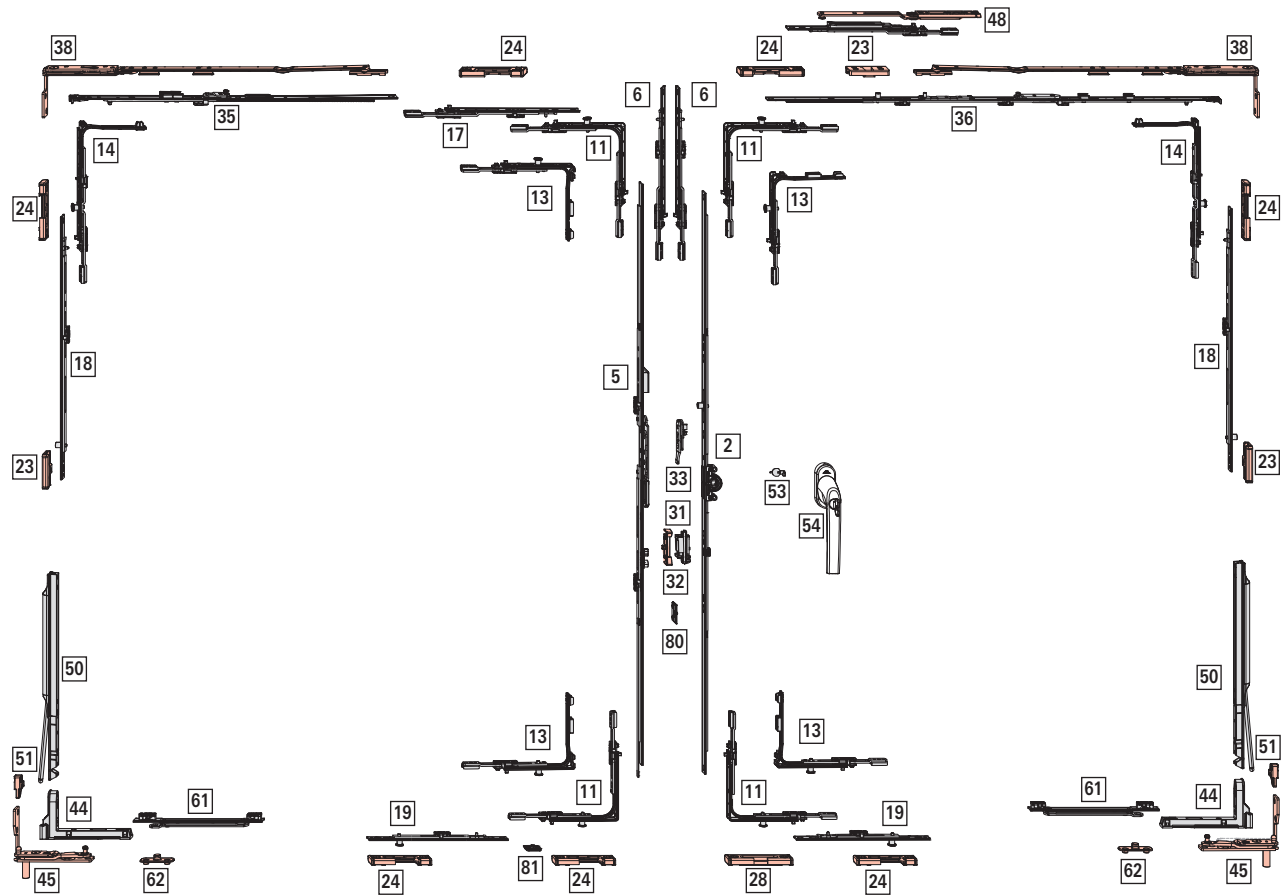
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Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application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



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3.4.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	370 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

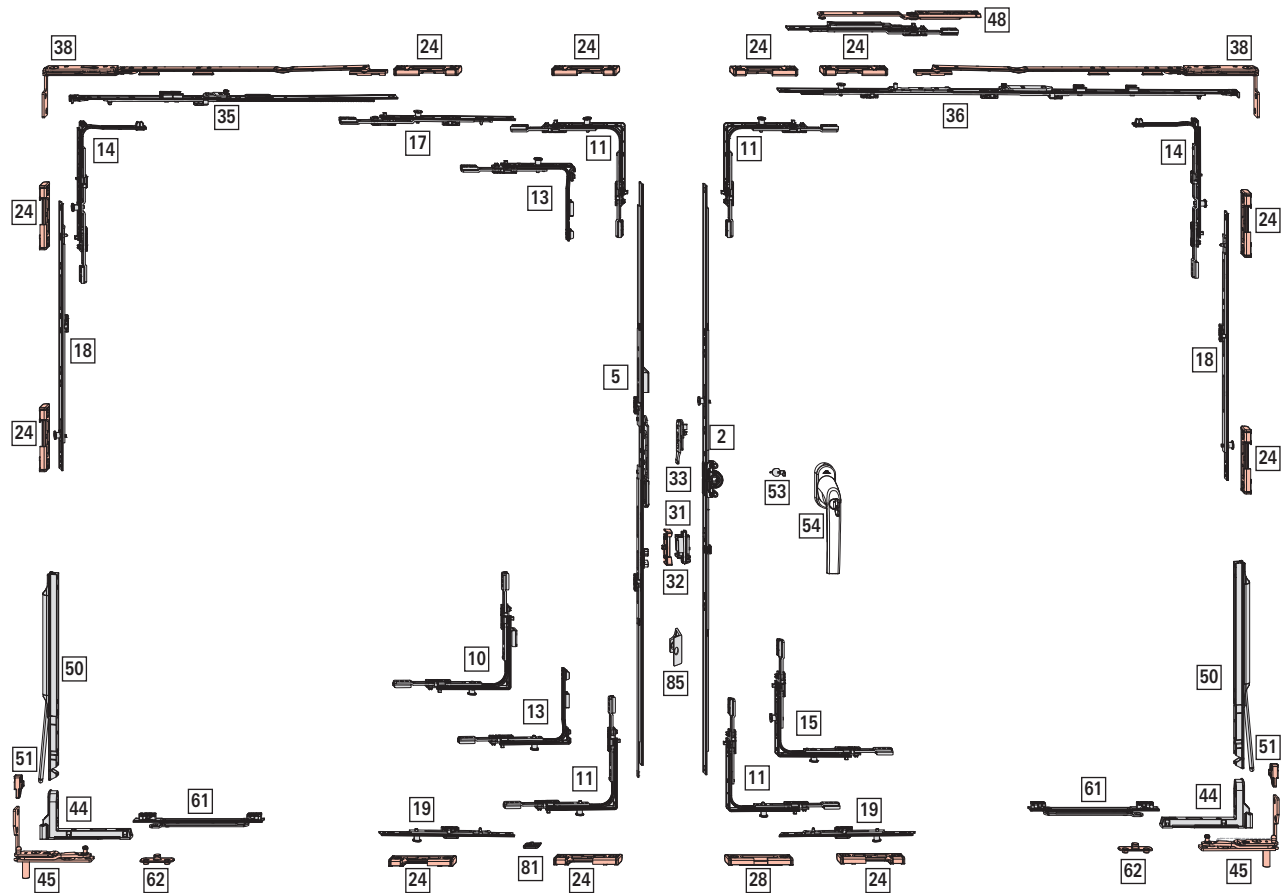
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Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application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



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3.4.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[81]	Run-up block → <i>from page 667</i>
[85]	Retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	520 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

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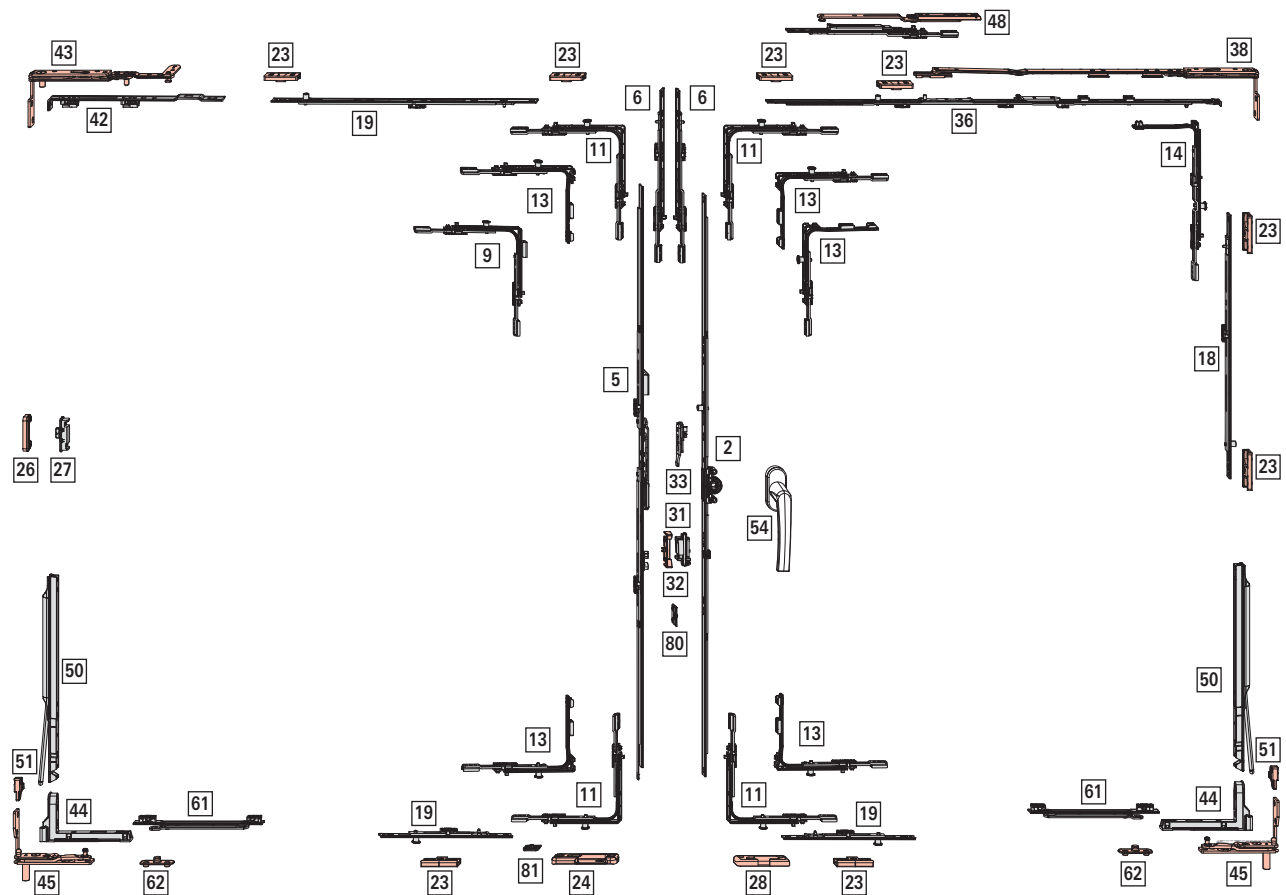
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.4.2.6 Floating-mullion hardware – Plus

3.4.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 674</i>
[27]	Centre closer, concealed, sash component → <i>from page 674</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[42]	Rebate stay guide → <i>from page 547</i>
[43]	Rebate stay arm → <i>from page 551</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	350 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	420 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

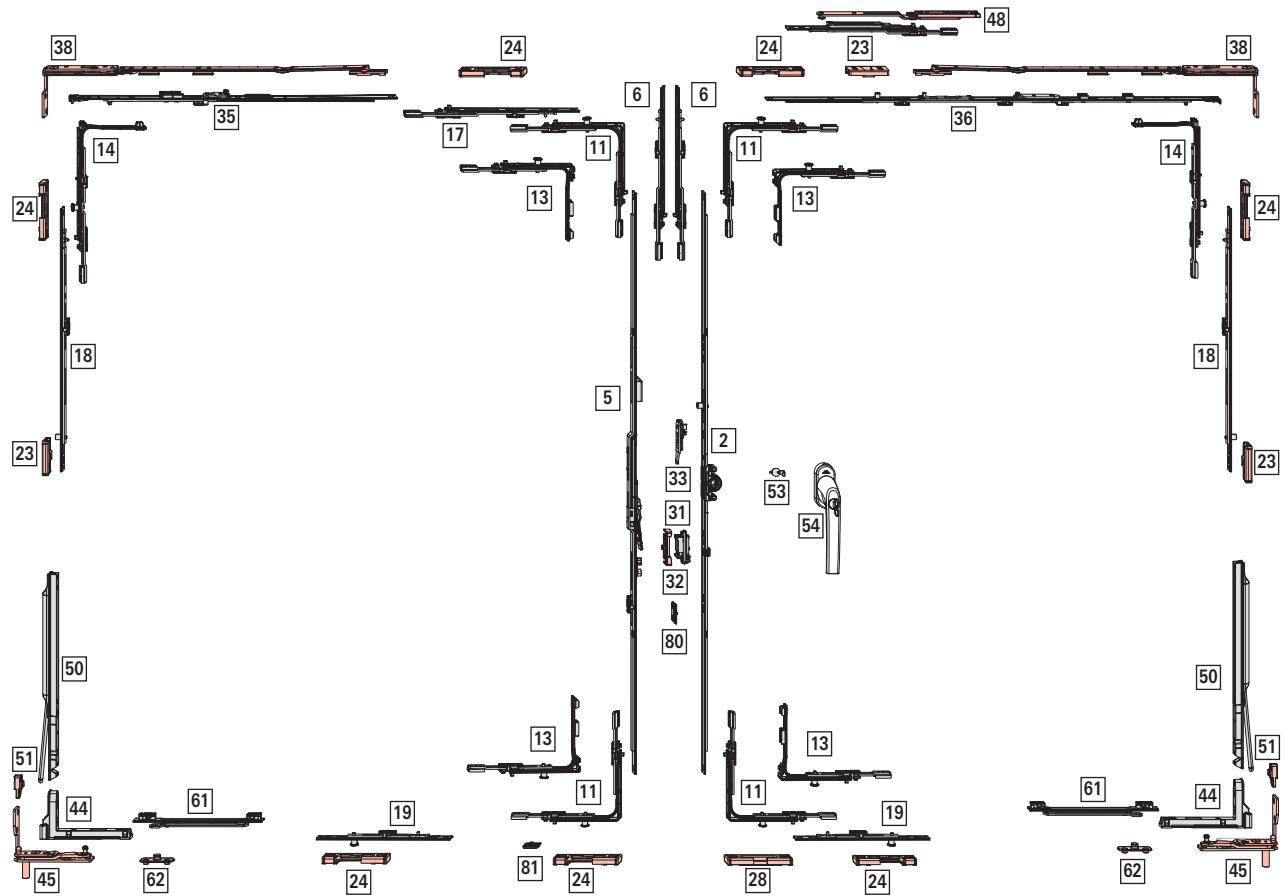
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3.4.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, basic security → <i>from page 526</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	420 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



INFO

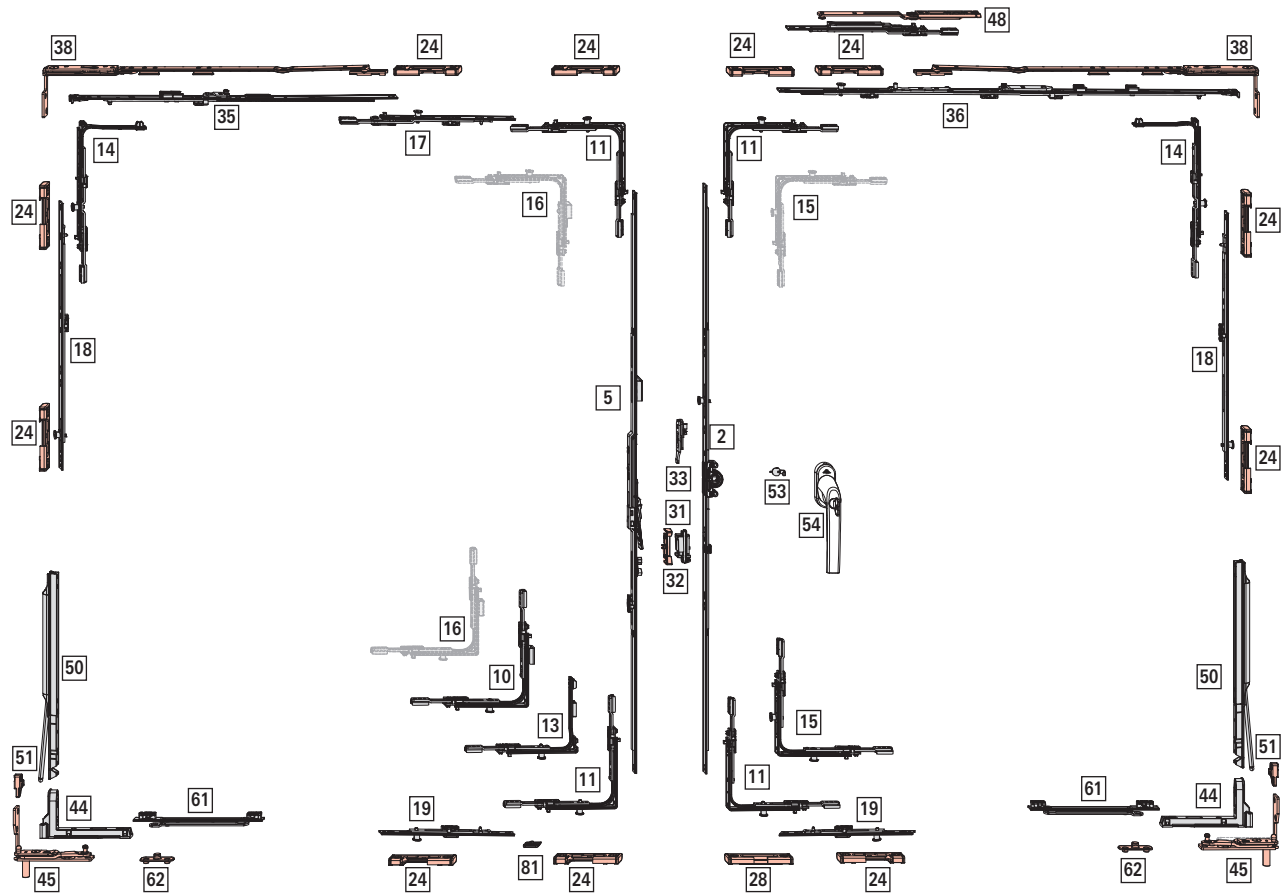
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Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application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



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3.4.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[17]	Centre lock, multipart – security → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[35]	Turn-Only sash stay guide → <i>from page 527</i>
[36]	Stay guide, security → <i>from page 527</i>
[38]	Stay arm → <i>from page 540</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 601</i>
[48]	Additional stay arm → <i>from page 628</i>
[50]	Load transfer sash component → <i>from page 605</i>
[51]	Load transfer frame component → <i>from page 605</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 198 sash component → <i>from page 661</i>
[62]	Turn restrictor frame component → <i>from page 633</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security			
		Without load transfer	With load transfer
	Sash rebate width (SRW)	430 – 1400 mm	600 – 1400 mm
	Sash rebate height (SRH)	520 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg	80 – 150 kg



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.



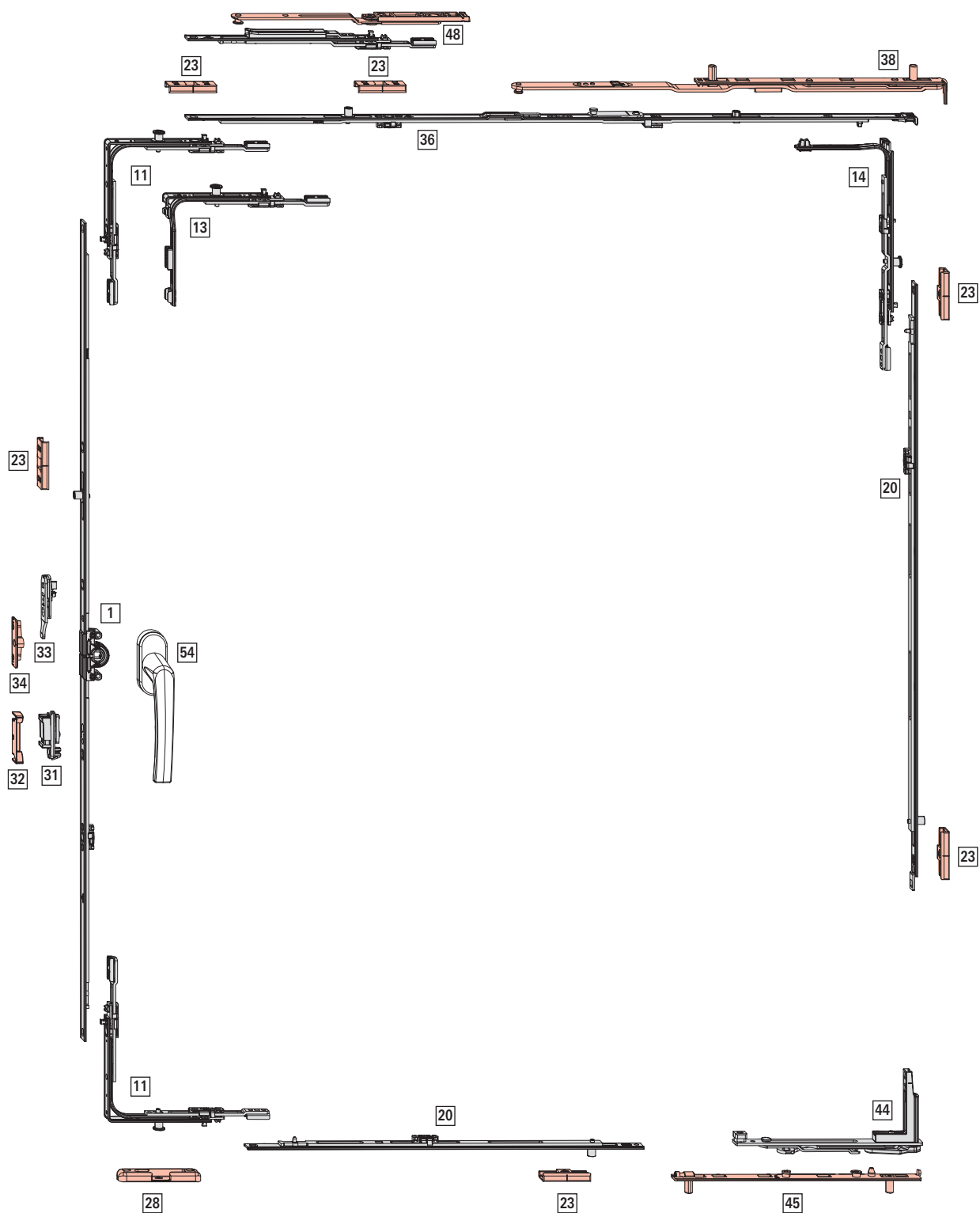
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3.5 Hinge side Royal

3.5.1 T&T espagnolette, VT – fixed handle height

3.5.1.1 Tilt&Turn hardware

3.5.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	280 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

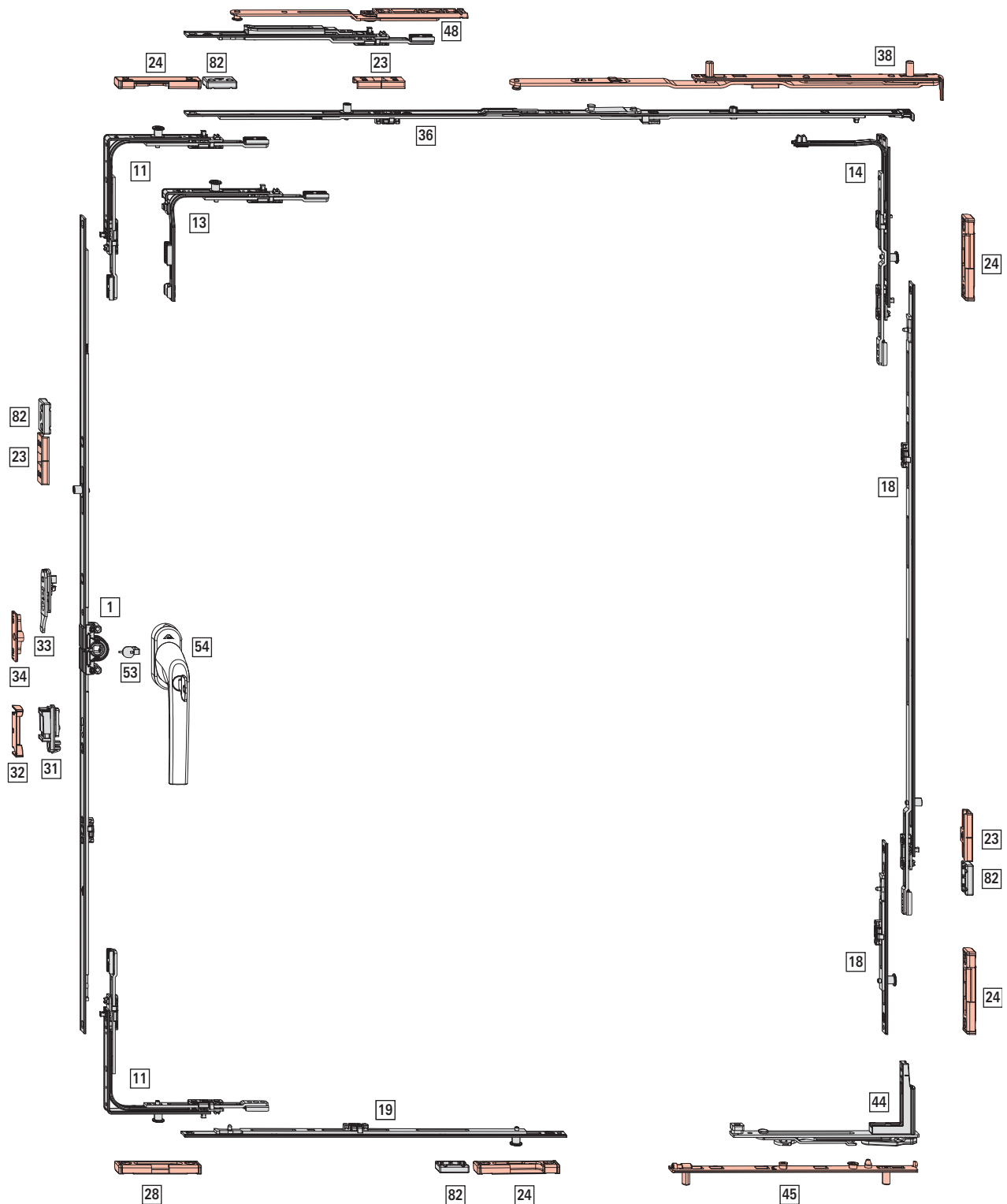
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3.5.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	350 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

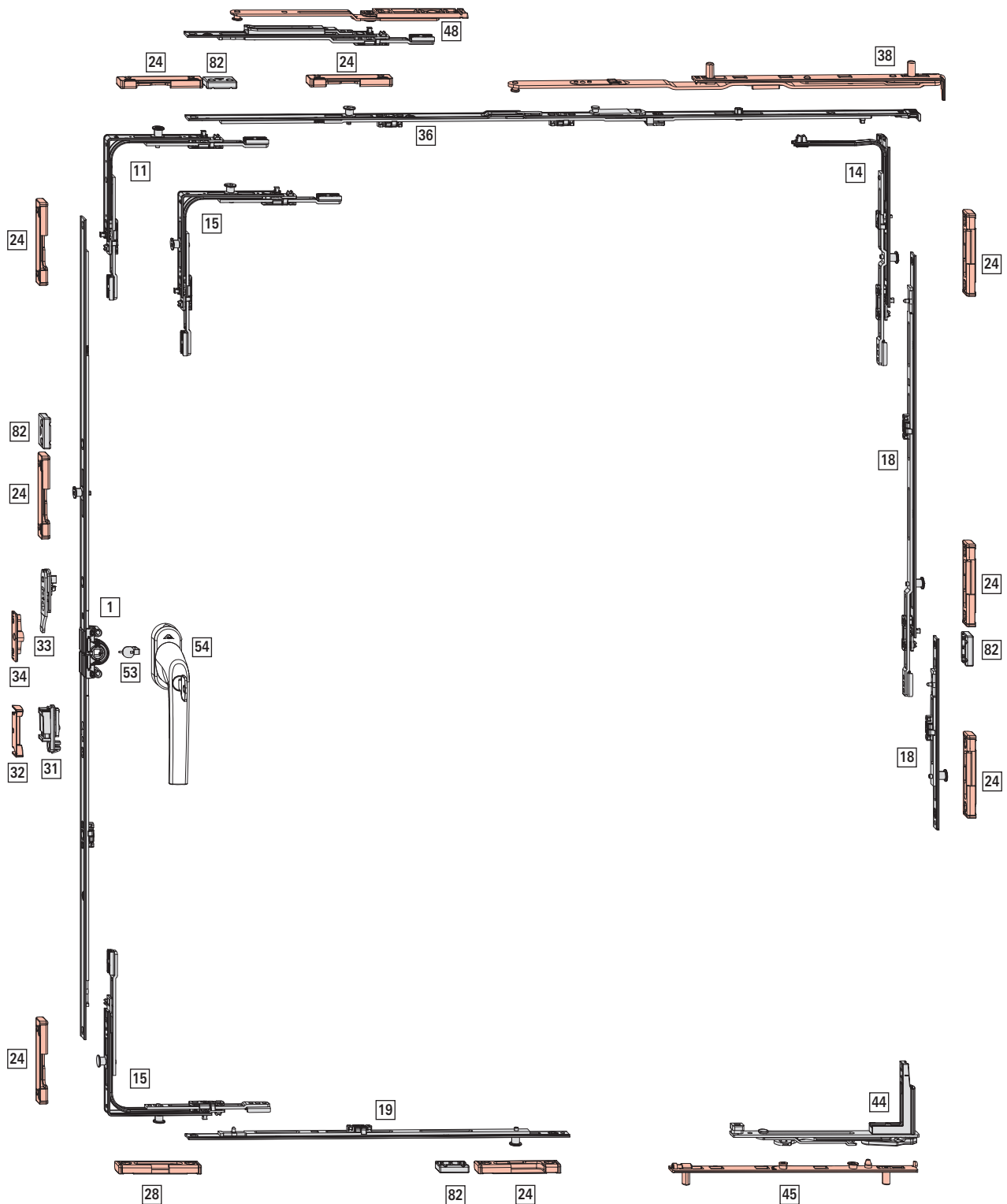
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3.5.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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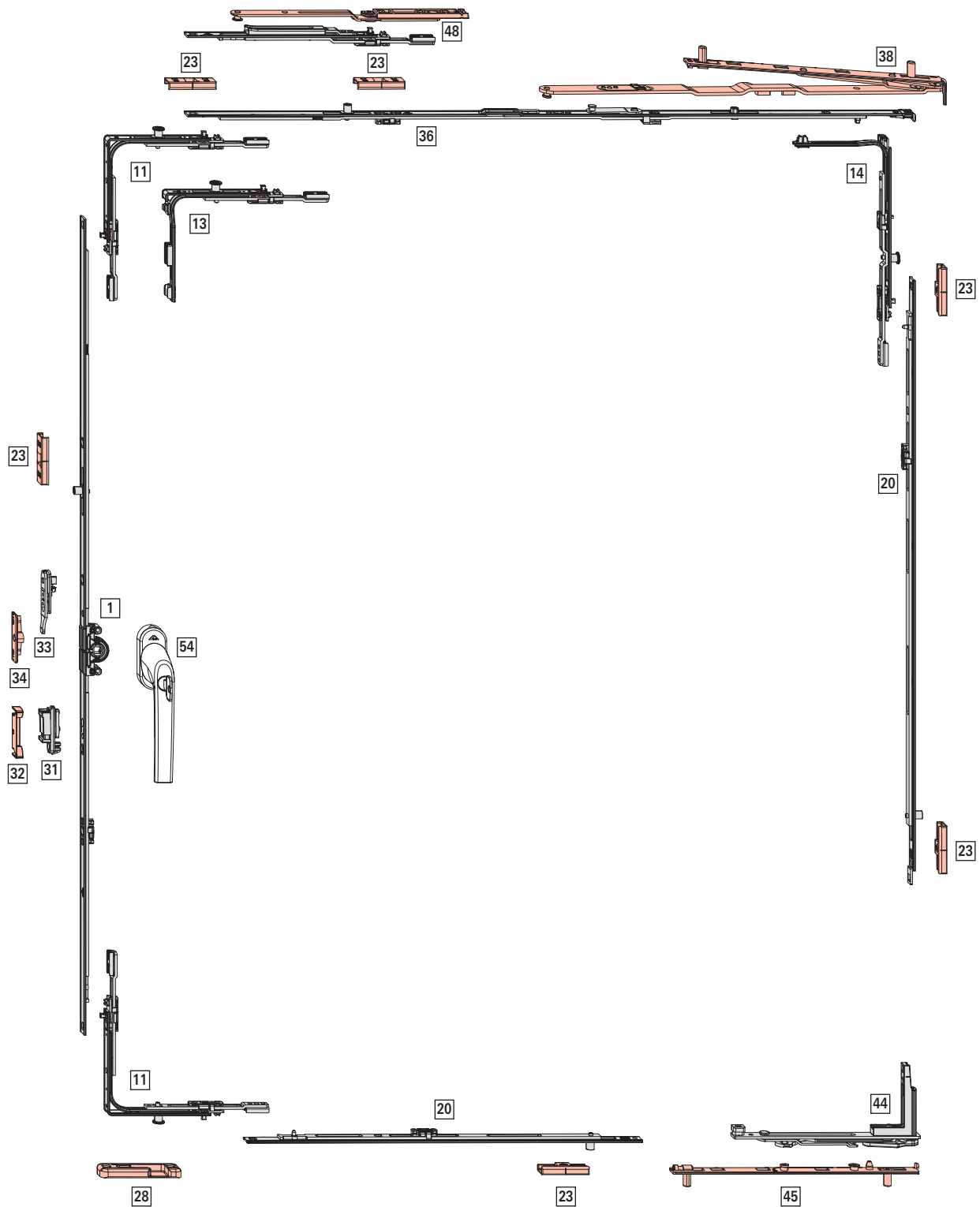
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.5.1.2 TiltFirst hardware

3.5.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm, TiltFirst → <i>from page 542</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[54]	Handle, lockable (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	280 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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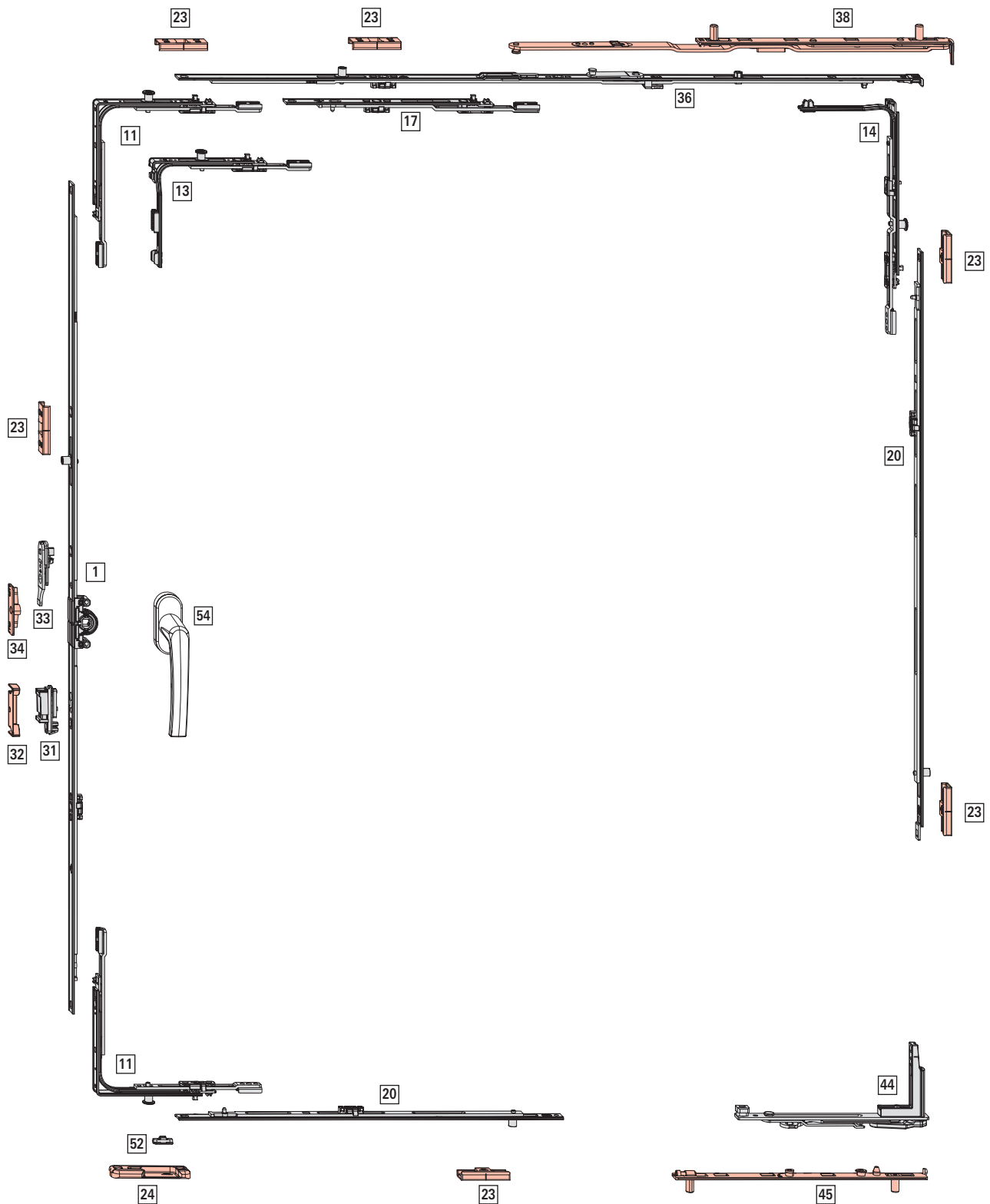
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.5.1.3 Turn-Only hardware

3.5.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	280 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

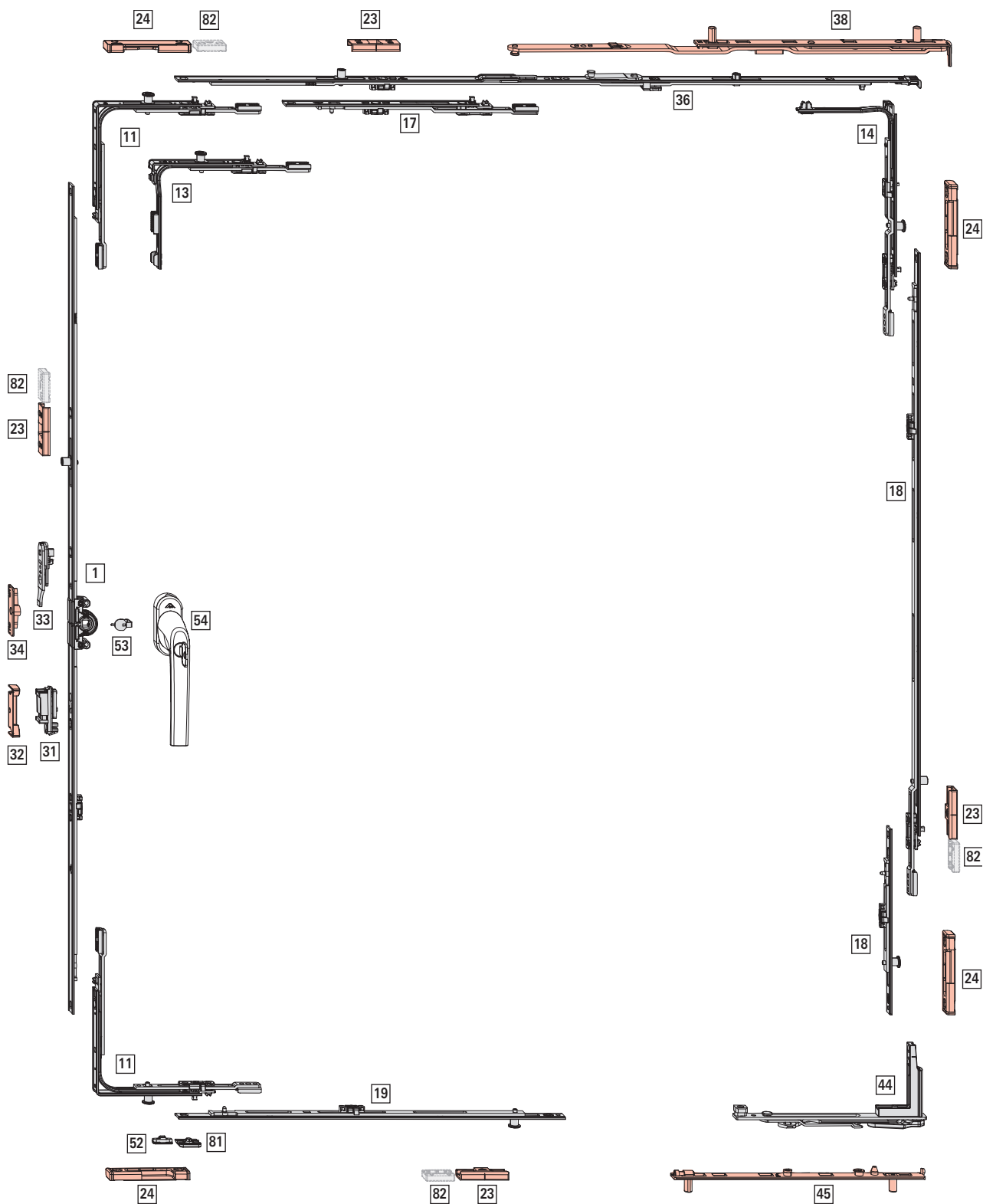
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Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application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



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3.5.1.3.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	350 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

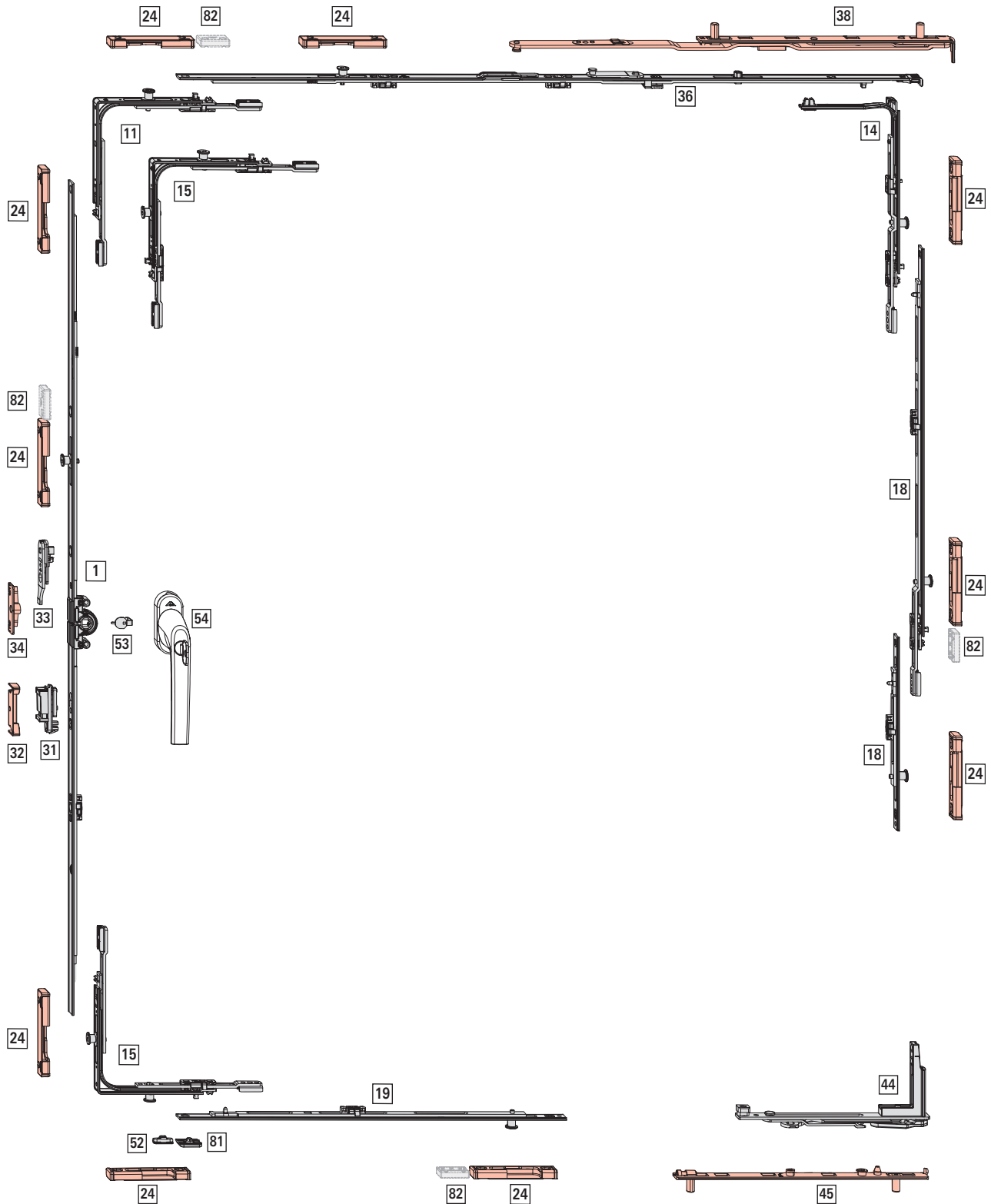
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3.5.1.3.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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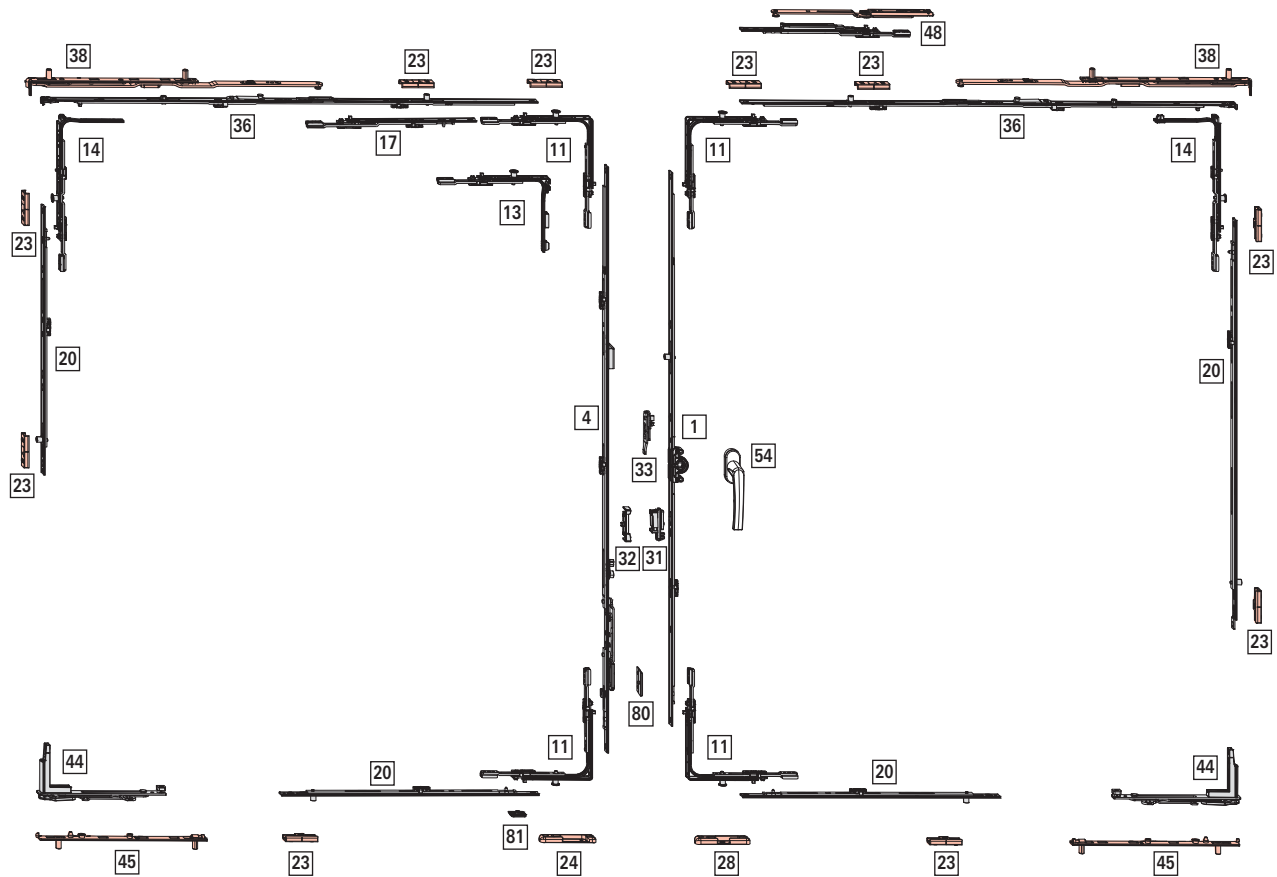
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3.5.1.4 Floating-mullion hardware – standard

3.5.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	430 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

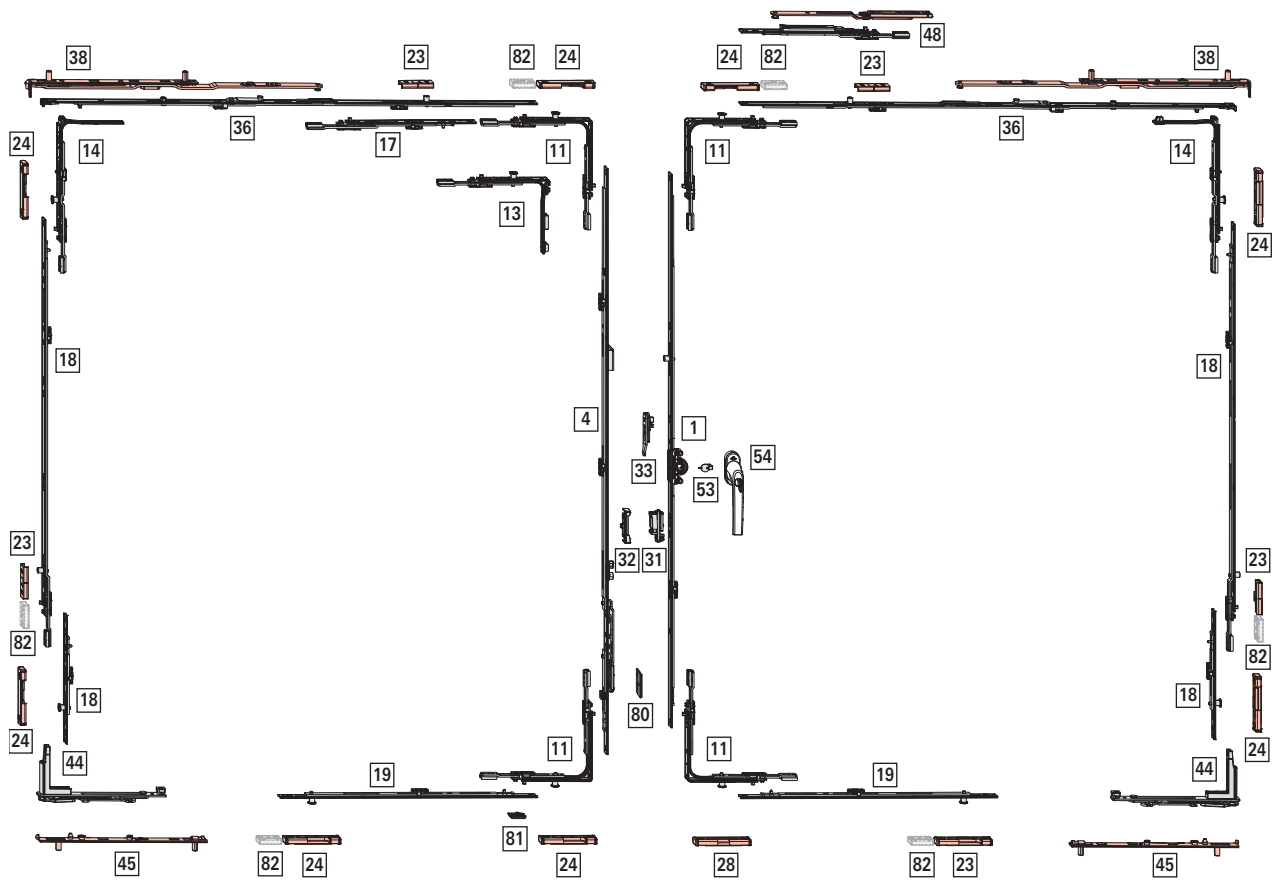
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Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application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



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3.5.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	430 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

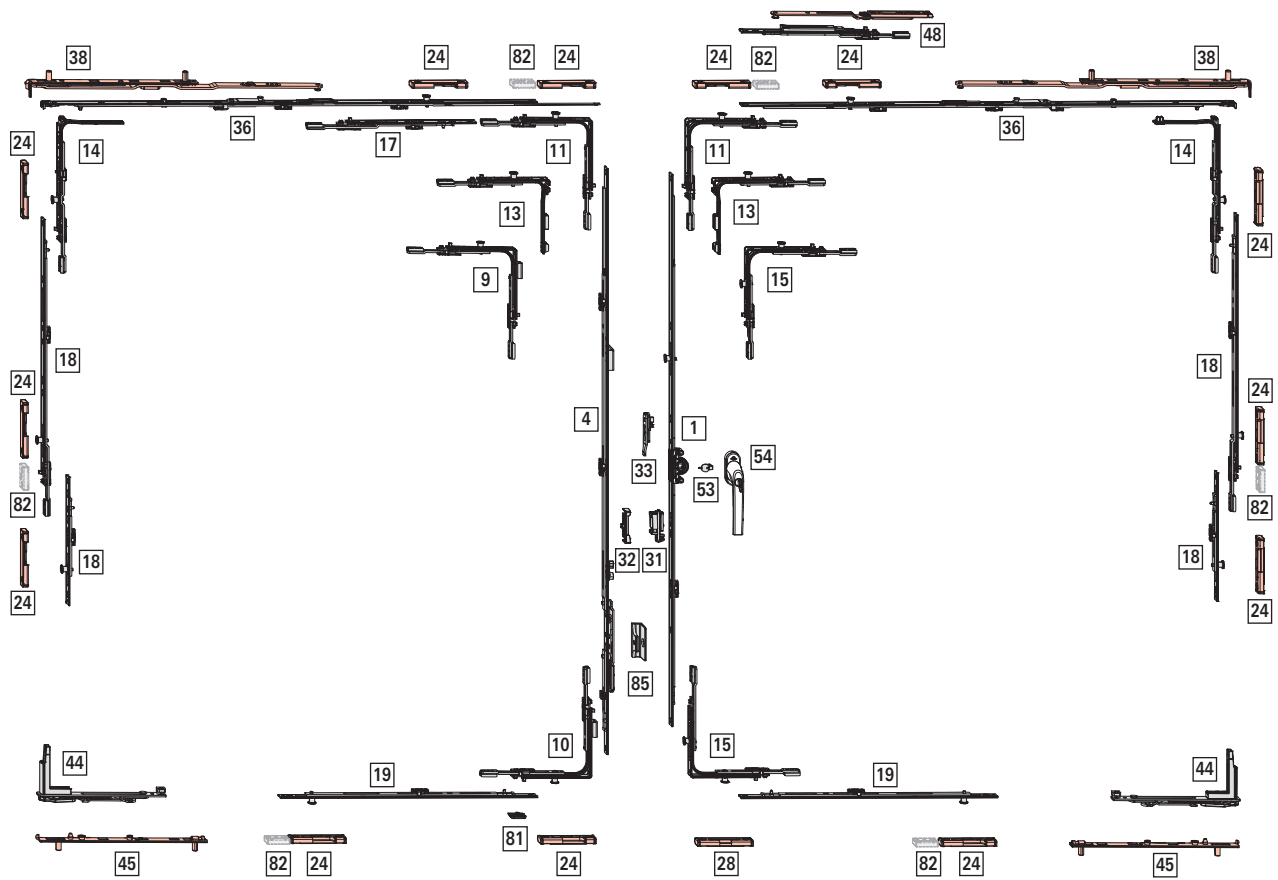
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3.5.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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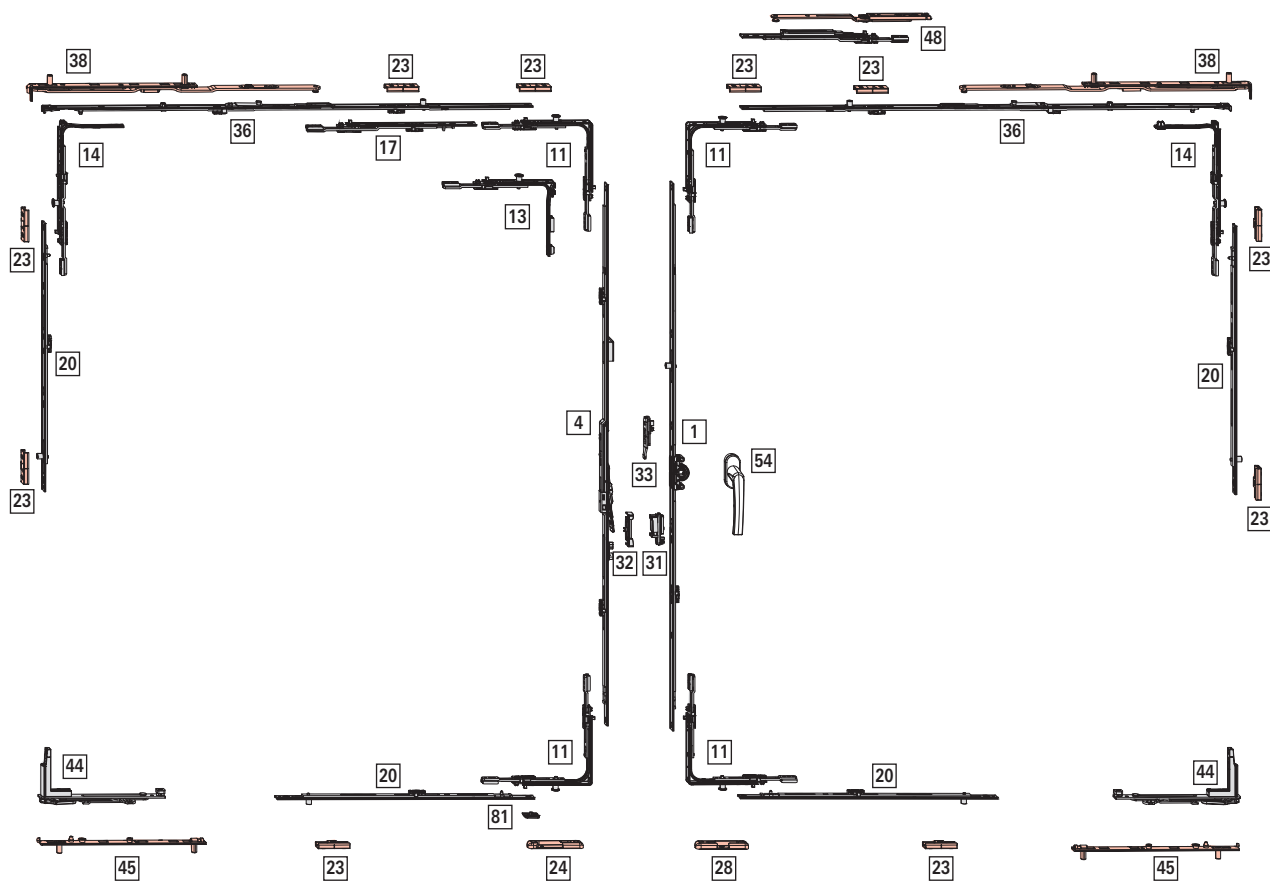
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



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3.5.1.5 Floating-mullion hardware – Plus

3.5.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	430 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

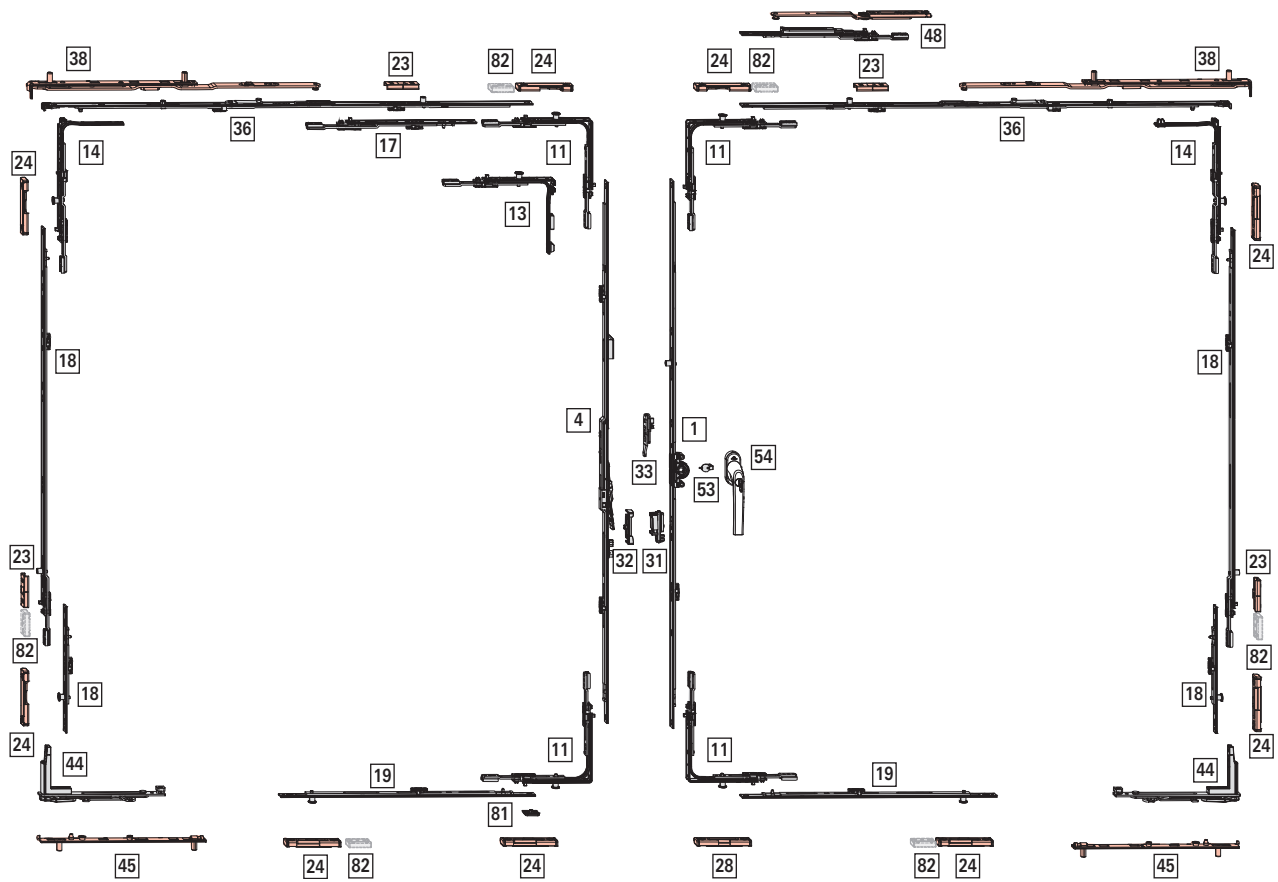
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3.5.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	430 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

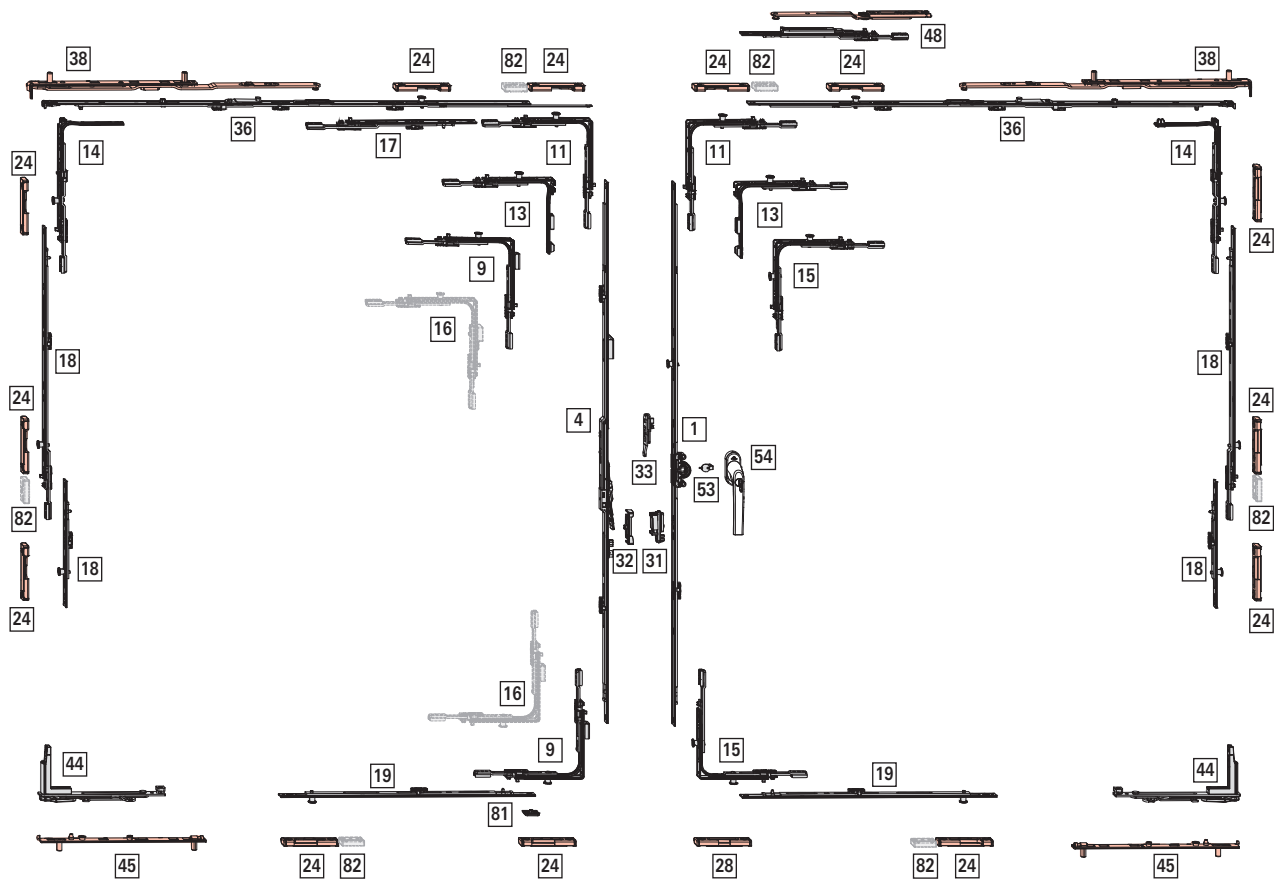
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3.5.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 494</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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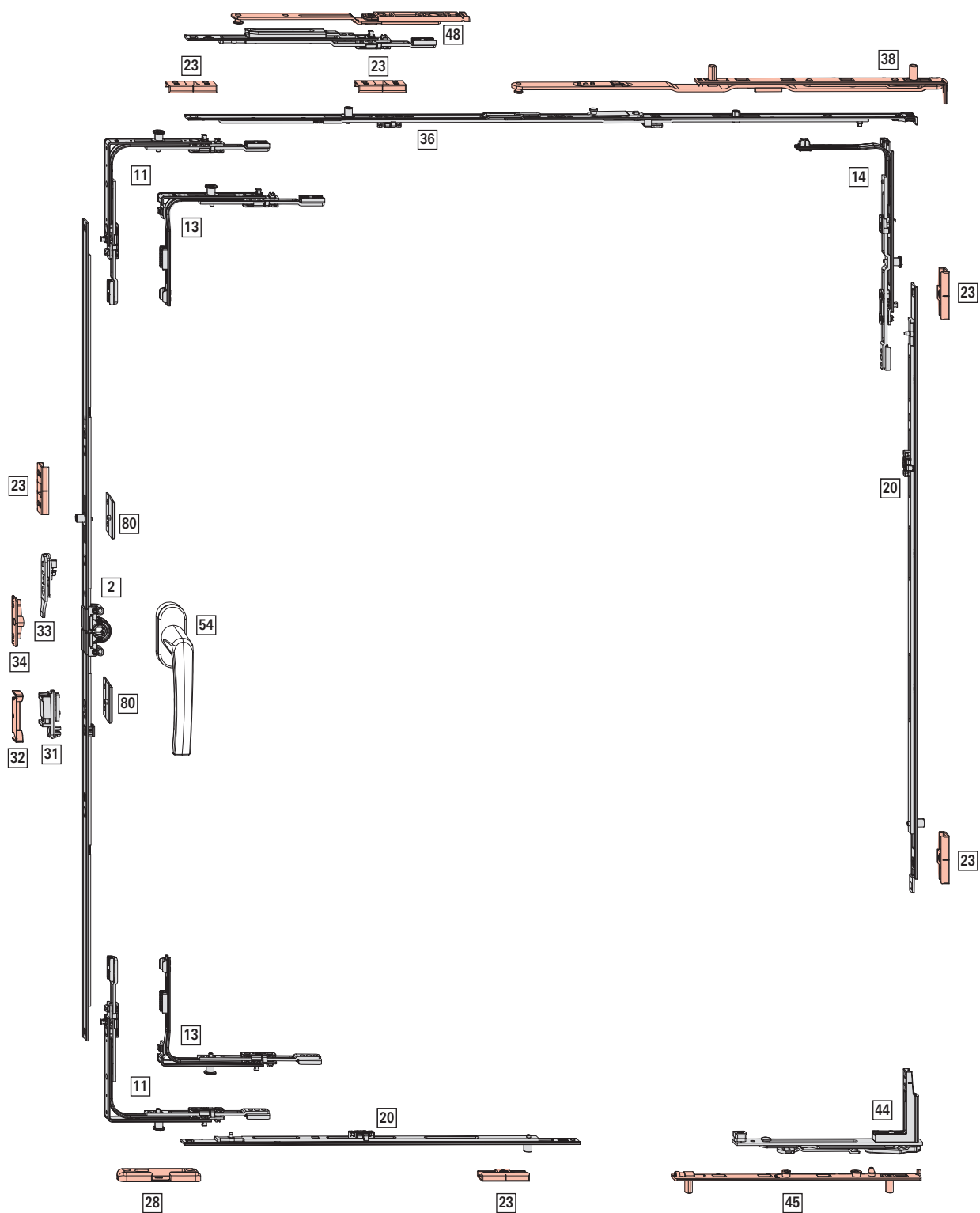


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3.5.2 T&T espagnolette – centred / variable handle height

3.5.2.1 Tilt&Turn hardware

3.5.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	310 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

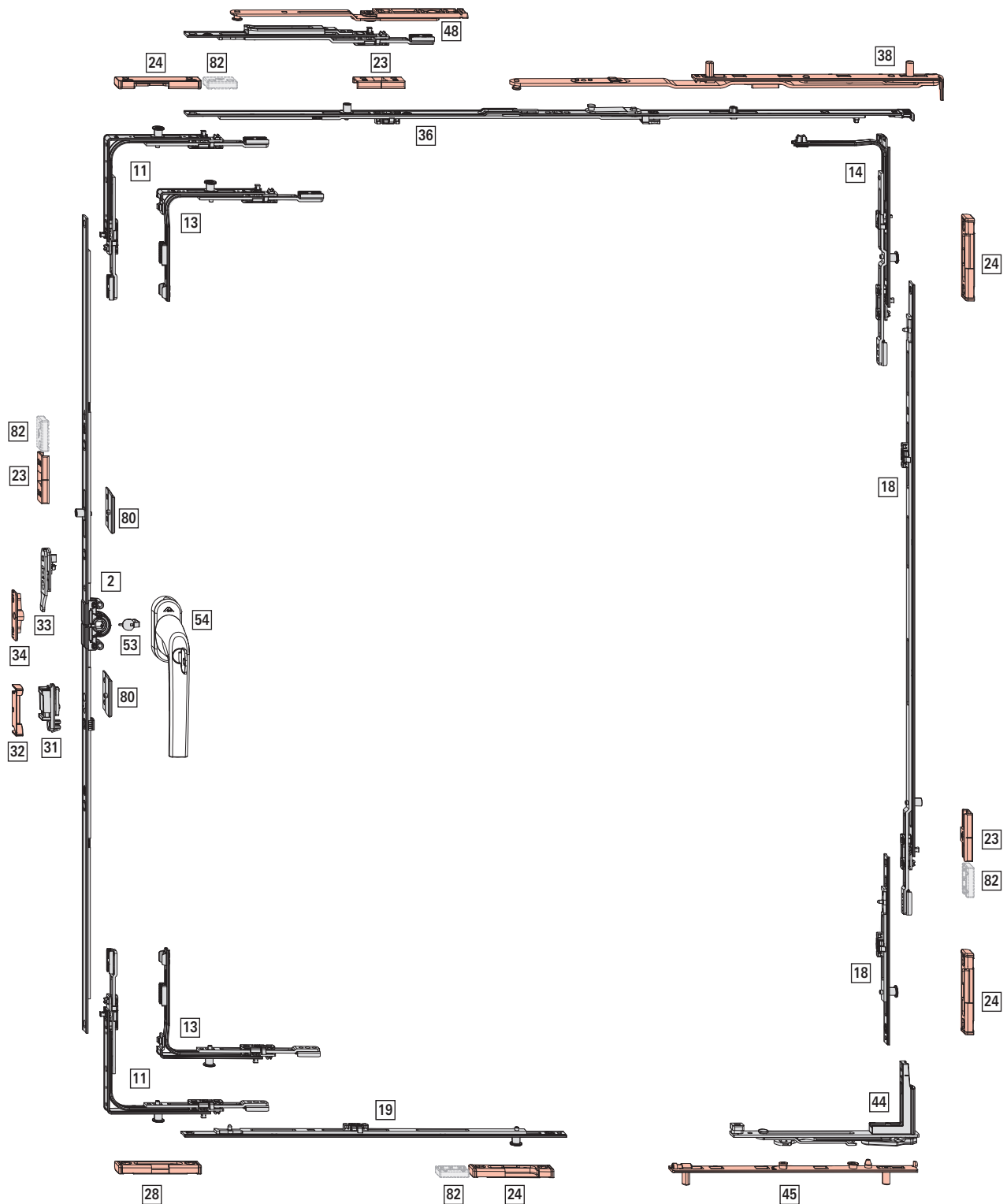
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3.5.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	350 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

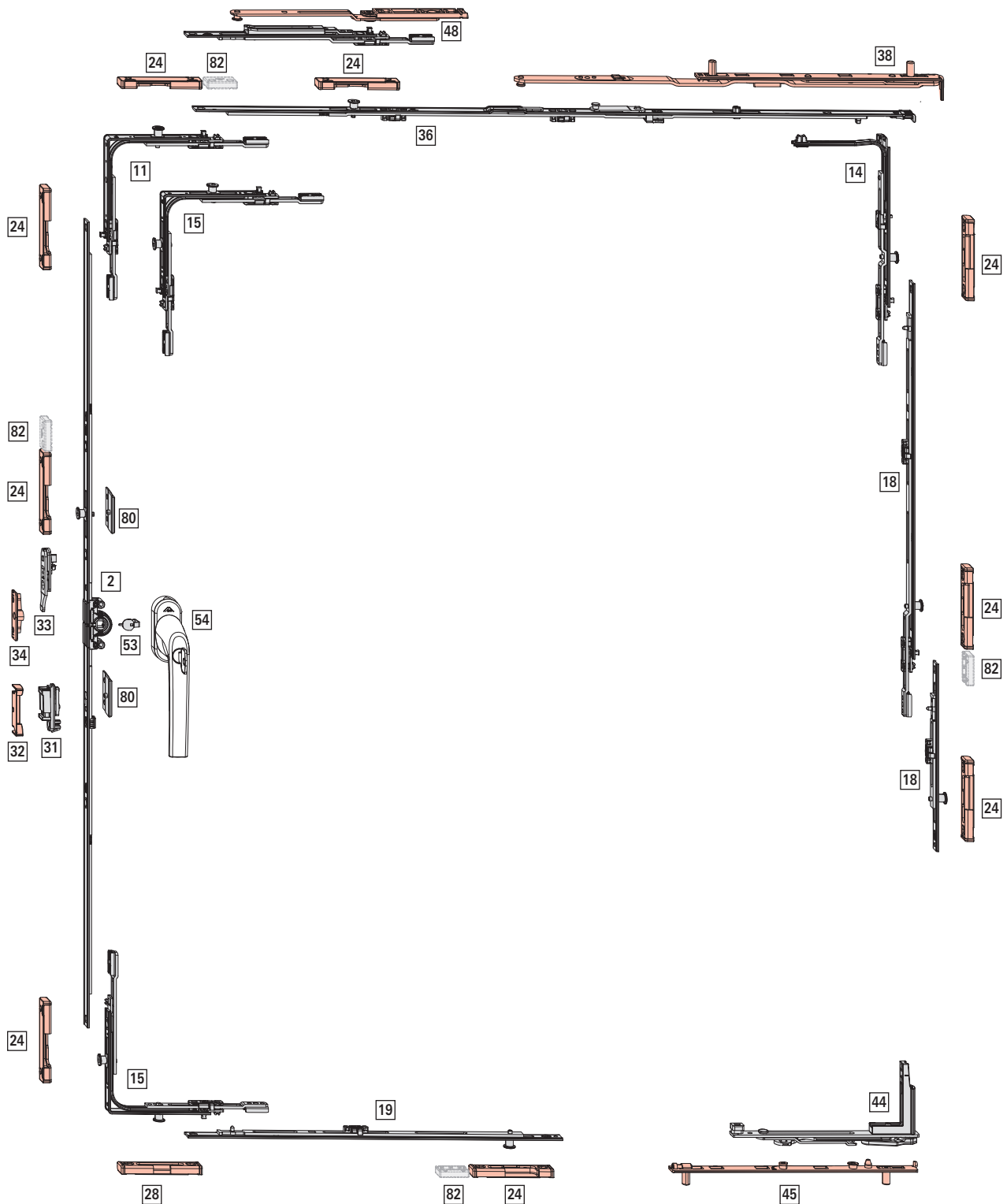
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3.5.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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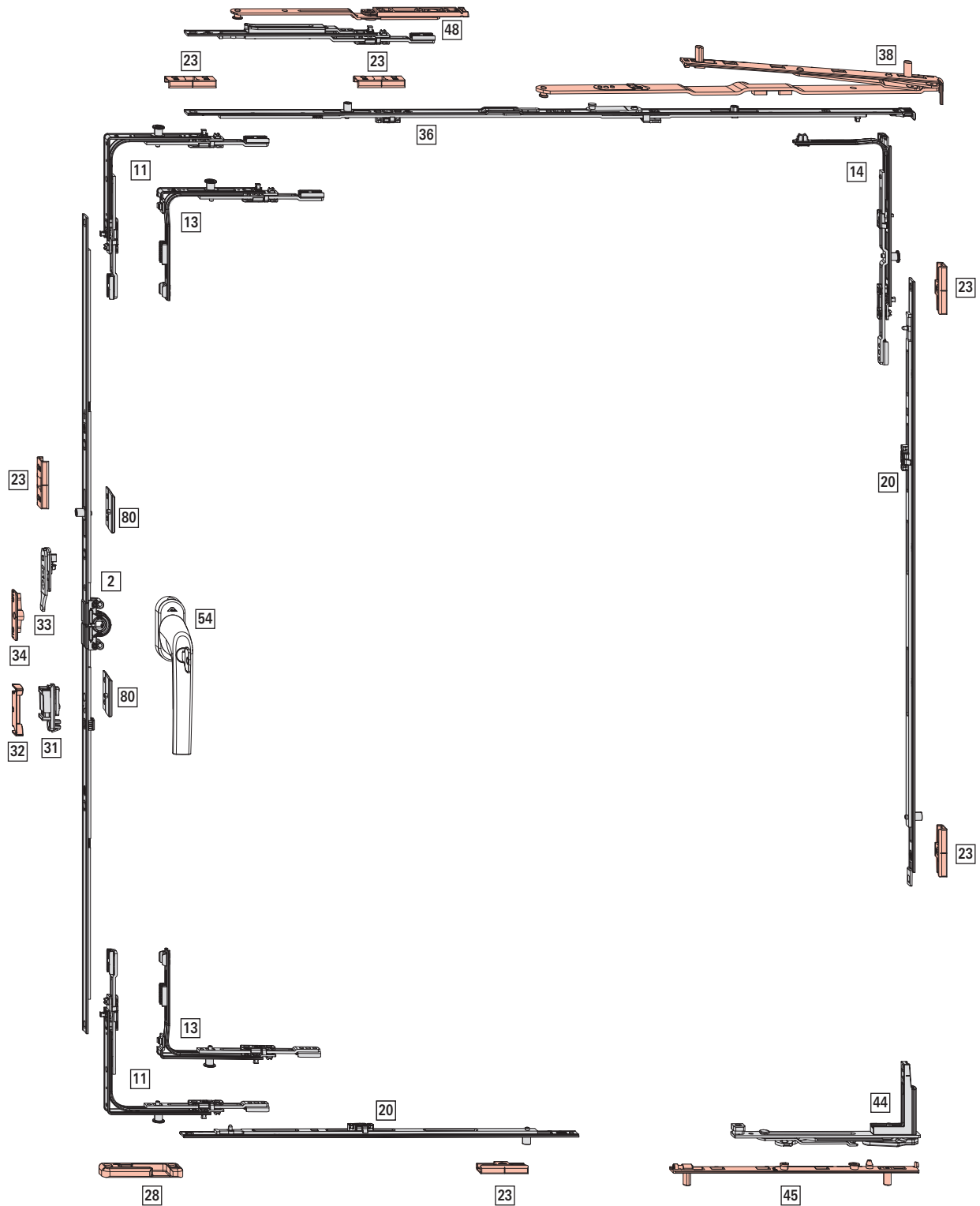
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3.5.2.2 TiltFirst hardware

3.5.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker, TiltFirst → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm, TiltFirst → <i>from page 542</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm, TiltFirst → <i>from page 628</i>
[54]	Handle, lockable (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	310 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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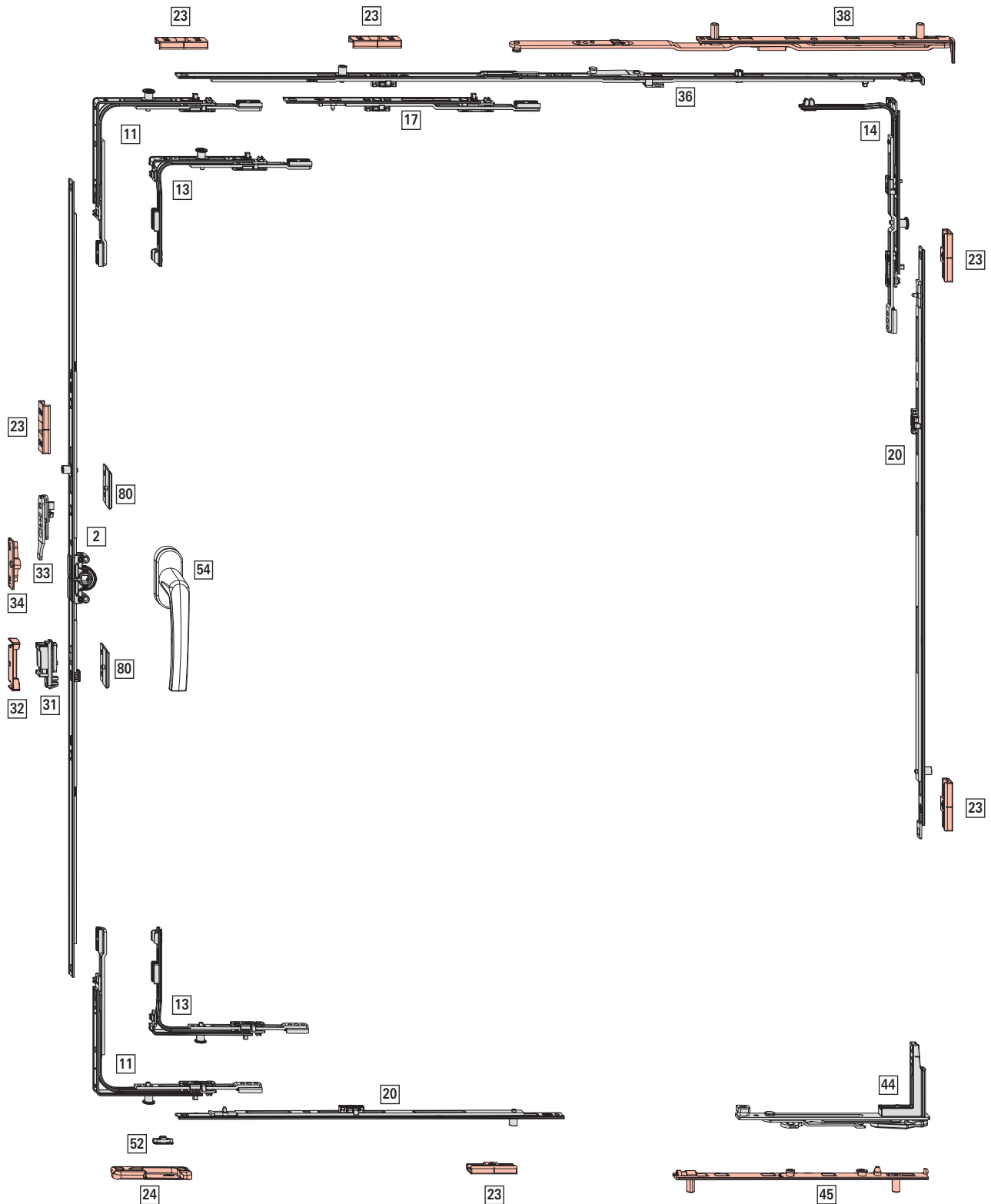
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3.5.2.3 Turn-Only hardware

3.5.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	310 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

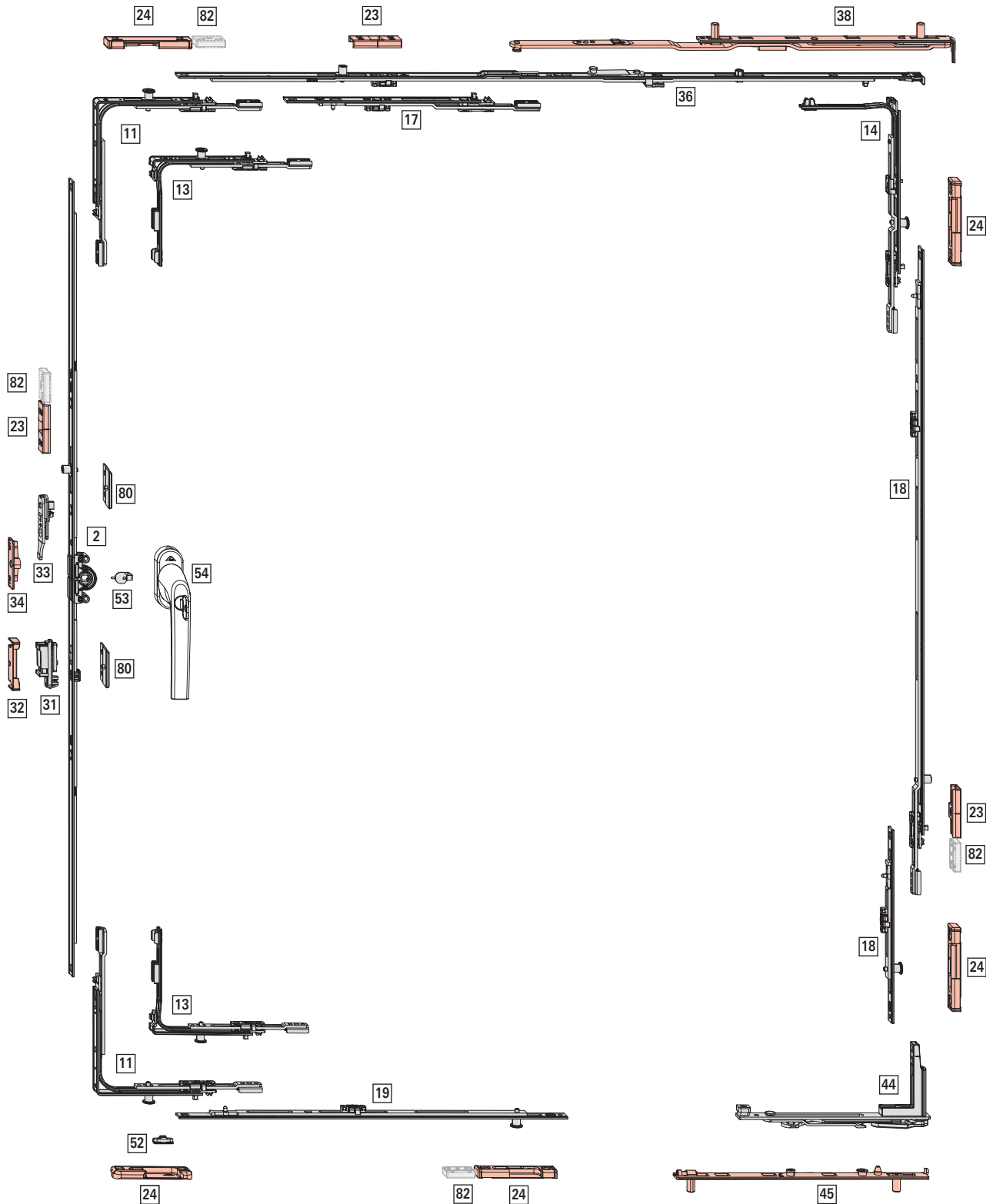
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3.5.2.3.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	350 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

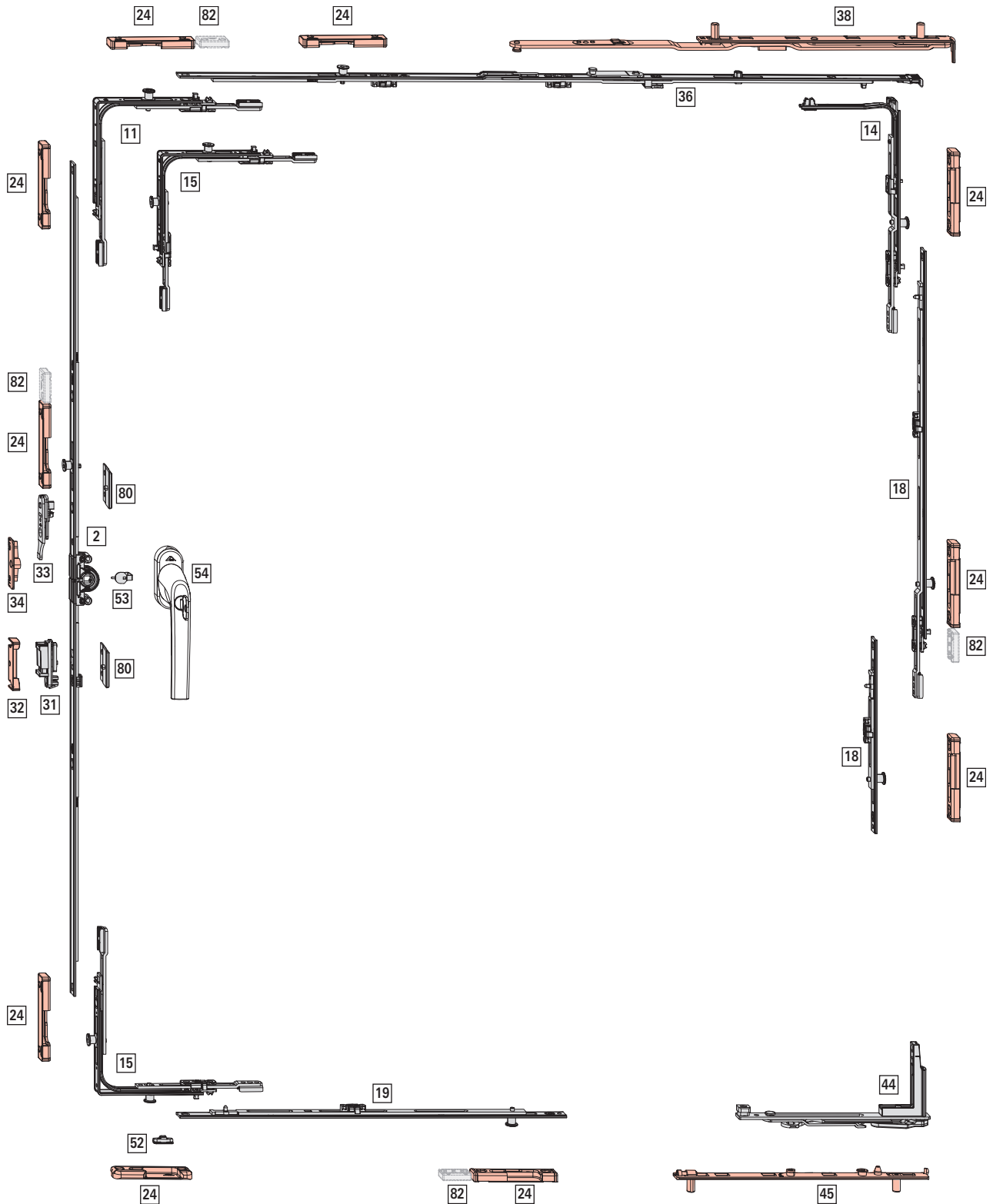
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3.5.2.3.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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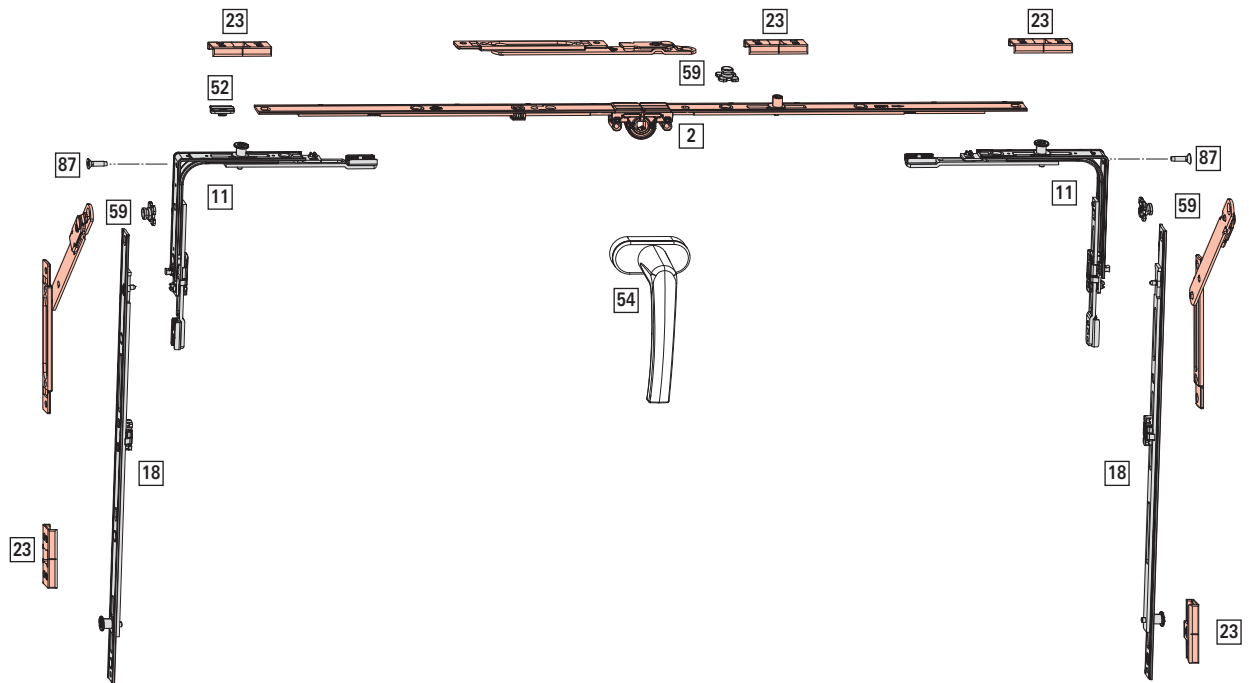
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3.5.2.4 Tilt-Only hardware

3.5.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[11]	Corner drive, standard → <i>from page 508</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[26]	Centre closer, concealed, frame component → <i>from page 675</i>
[27]	Centre closer, concealed, sash component → <i>from page 675</i>
[38]	Stay arm → <i>from page 541</i>
[42]	Rebate stay guide → <i>from page 547</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 630</i>
[86]	Fixing screw for Tilt-Only sash → <i>from page 547</i>
[87]	Screw for installation on corner drive → <i>from page 631</i>

Application range

Basic security		
	Sash rebate width (SRW)	450 – 1600 mm
	Sash rebate height (SRH)	440 – 1200 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

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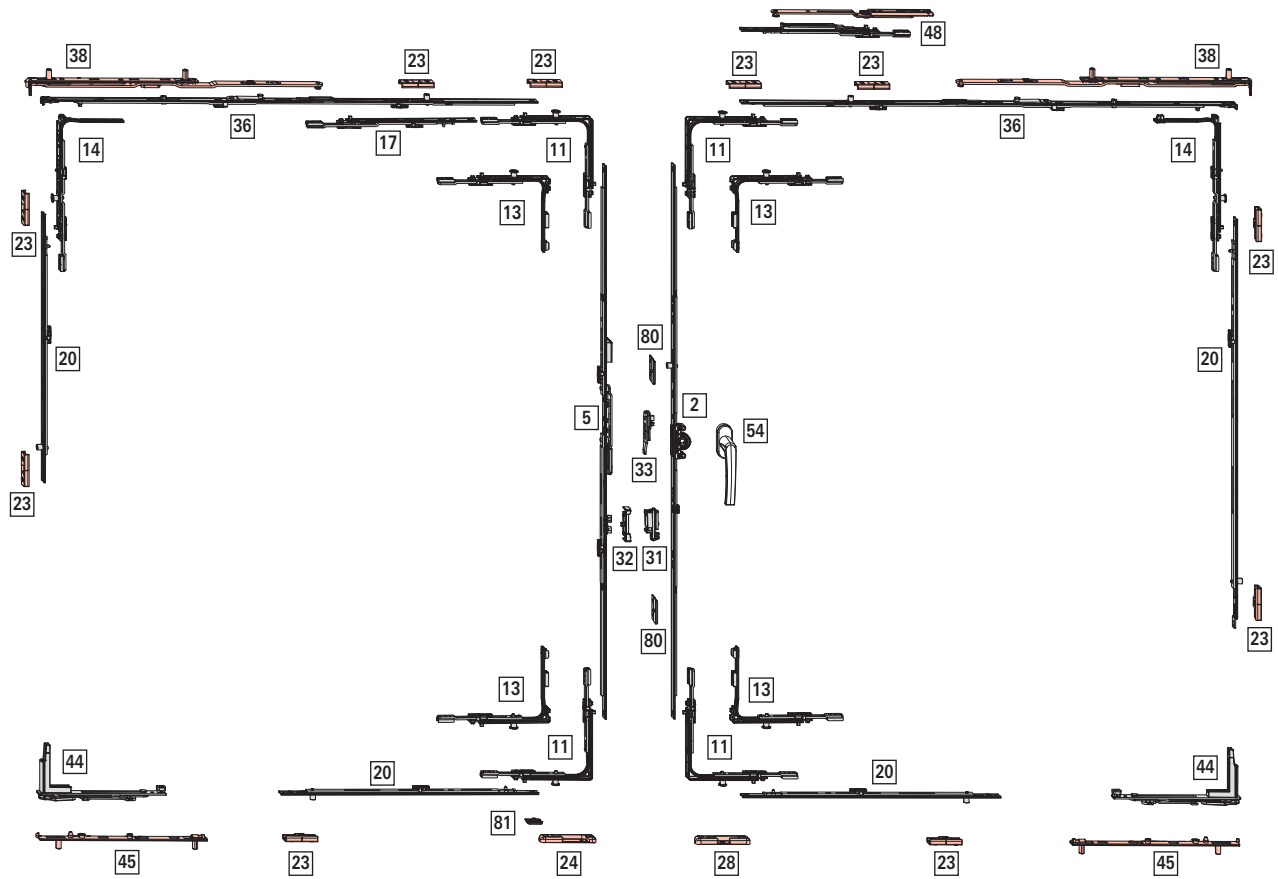
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3.5.2.5 Floating-mullion hardware – standard

3.5.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	370 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

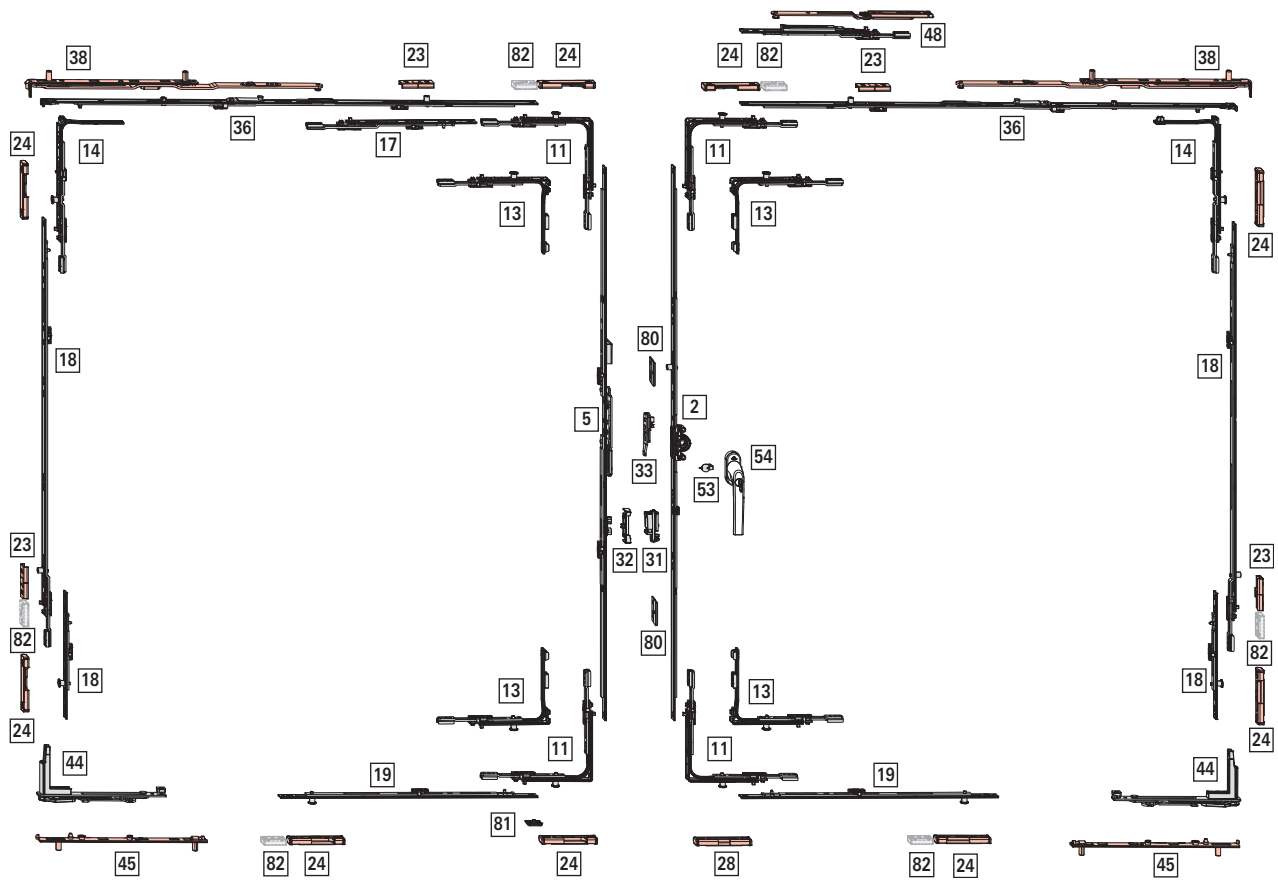
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3.5.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	370 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

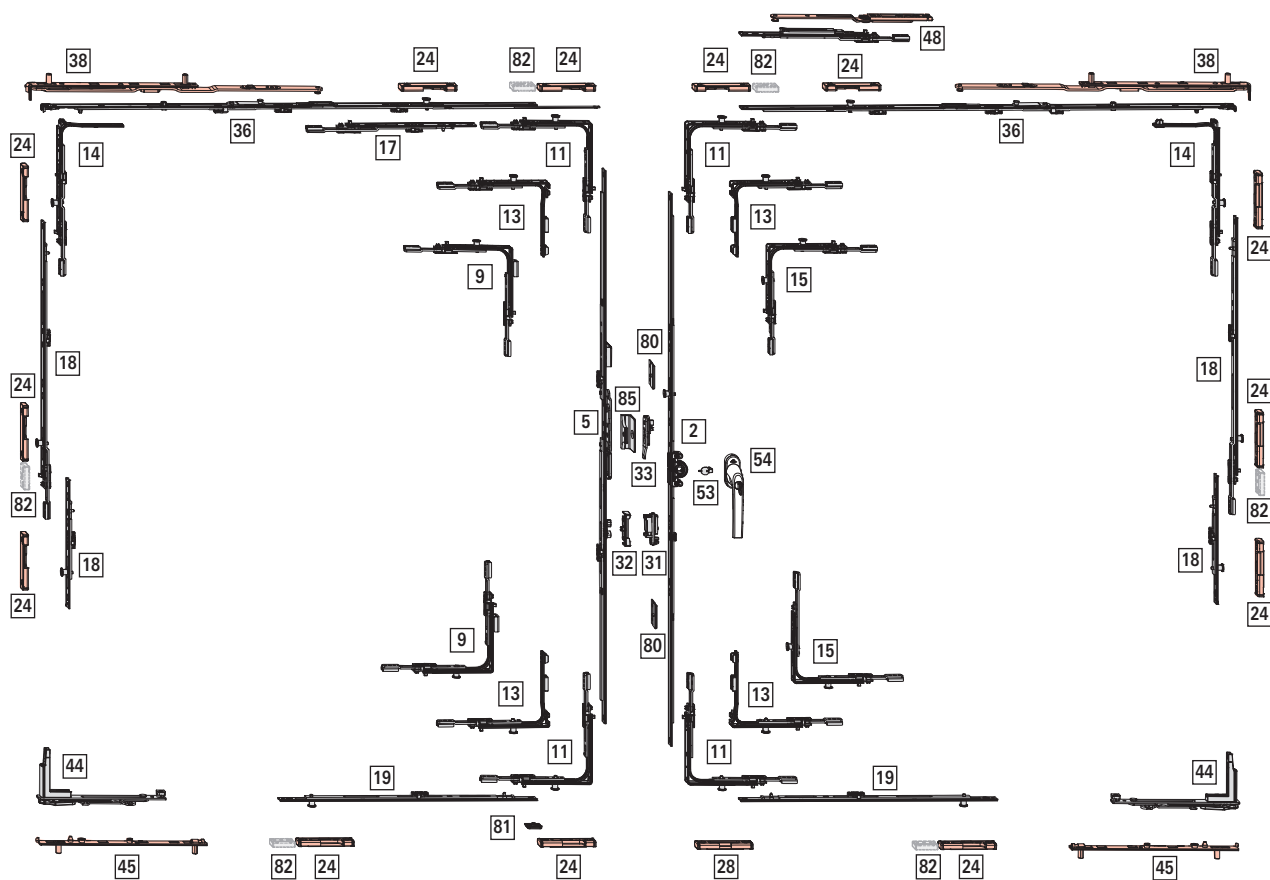
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3.5.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[10]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp for lever-operated espagnolette Standard → <i>from page 662</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



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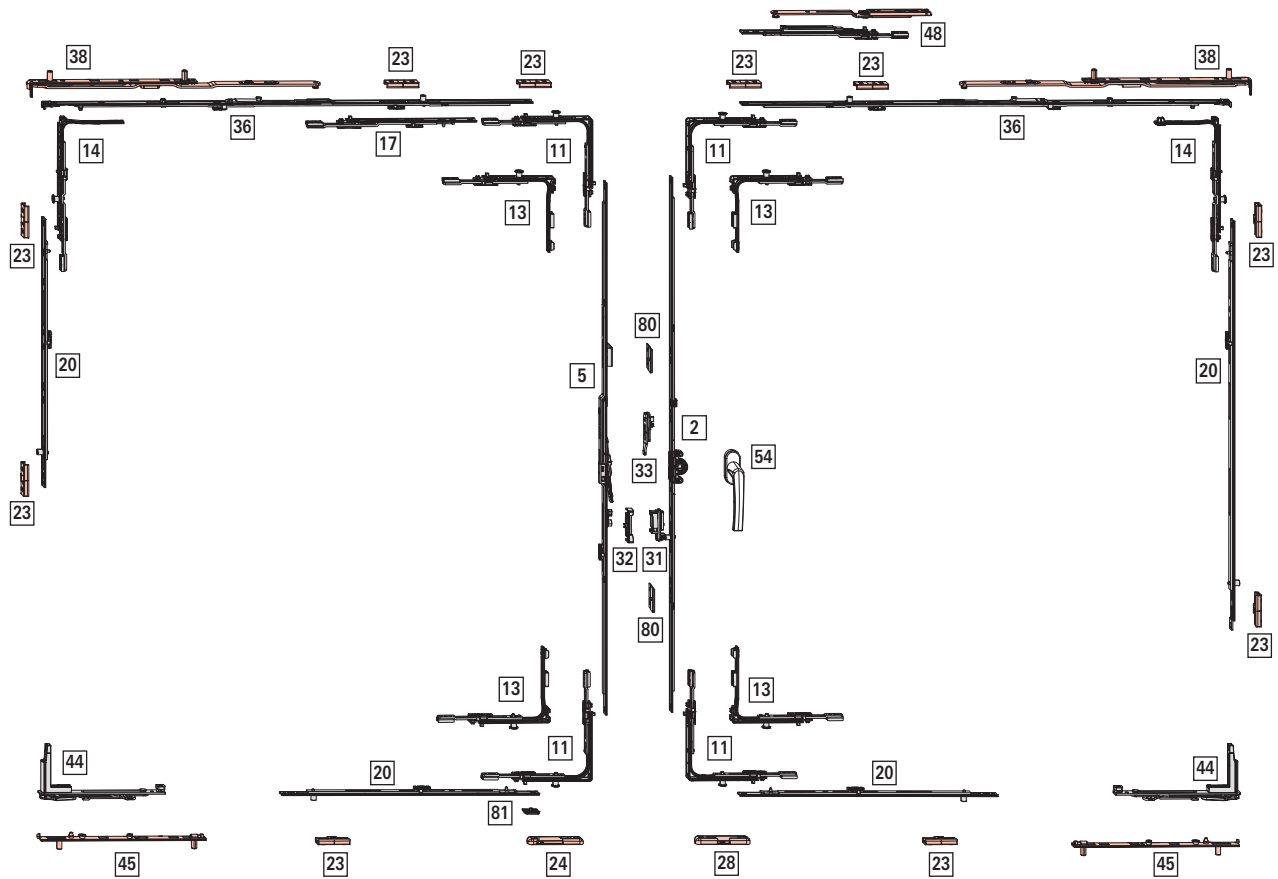
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3.5.2.6 Floating-mullion hardware – Plus

3.5.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	420 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

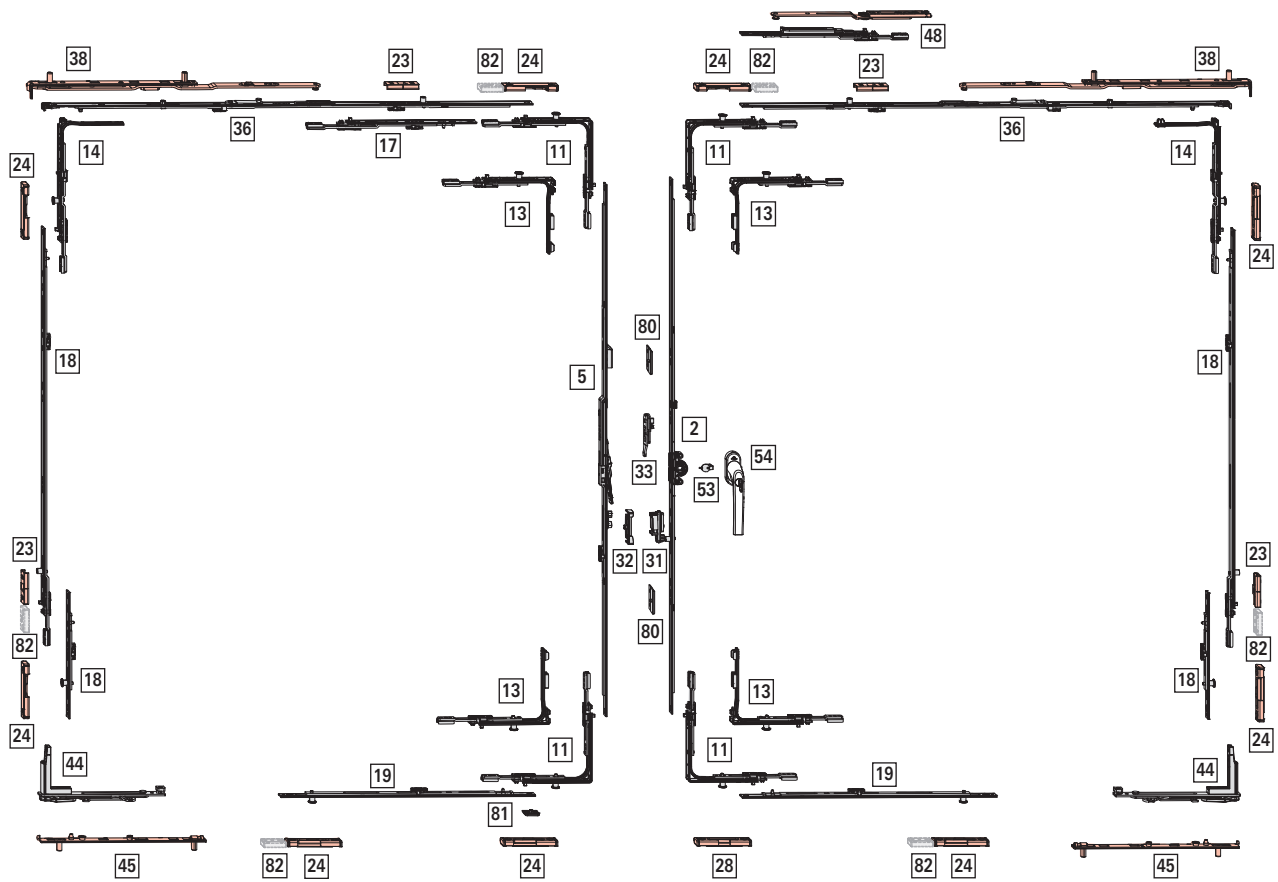
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3.5.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, basic security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	380 – 1400 mm
	Sash rebate height (SRH)	420 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



INFO

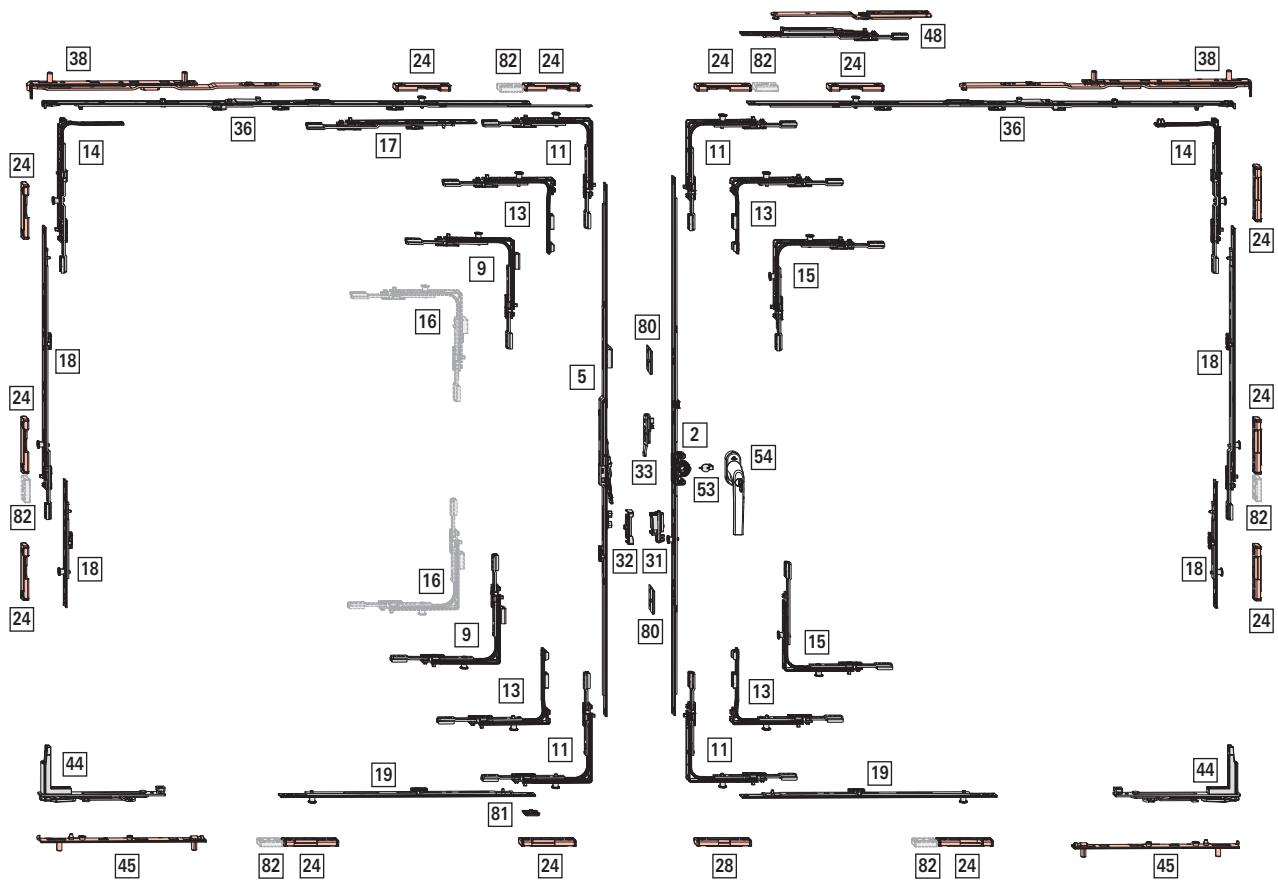
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3.5.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 462</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[9]	Floating-mullion corner drive → <i>from page 510</i>
[11]	Corner drive, standard → <i>from page 508</i>
[13]	Special corner drive, short → <i>from page 509</i>
[14]	Sash stay corner drive → <i>from page 512</i>
[15]	Corner drive, standard (security) → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard (optional) → <i>from page 510</i>
[17]	Centre lock, multipart – standard → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[36]	Stay guide, security → <i>from page 528</i>
[38]	Stay arm → <i>from page 541</i>
[44]	Corner hinge → <i>from page 591</i>
[45]	Pivot rest → <i>from page 602</i>
[48]	Additional stay arm → <i>from page 628</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 664</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	570 – 1400 mm
	Sash rebate height (SRH)	465 – 2400 mm
	Sash weight (S.kg)	Max. 80 kg



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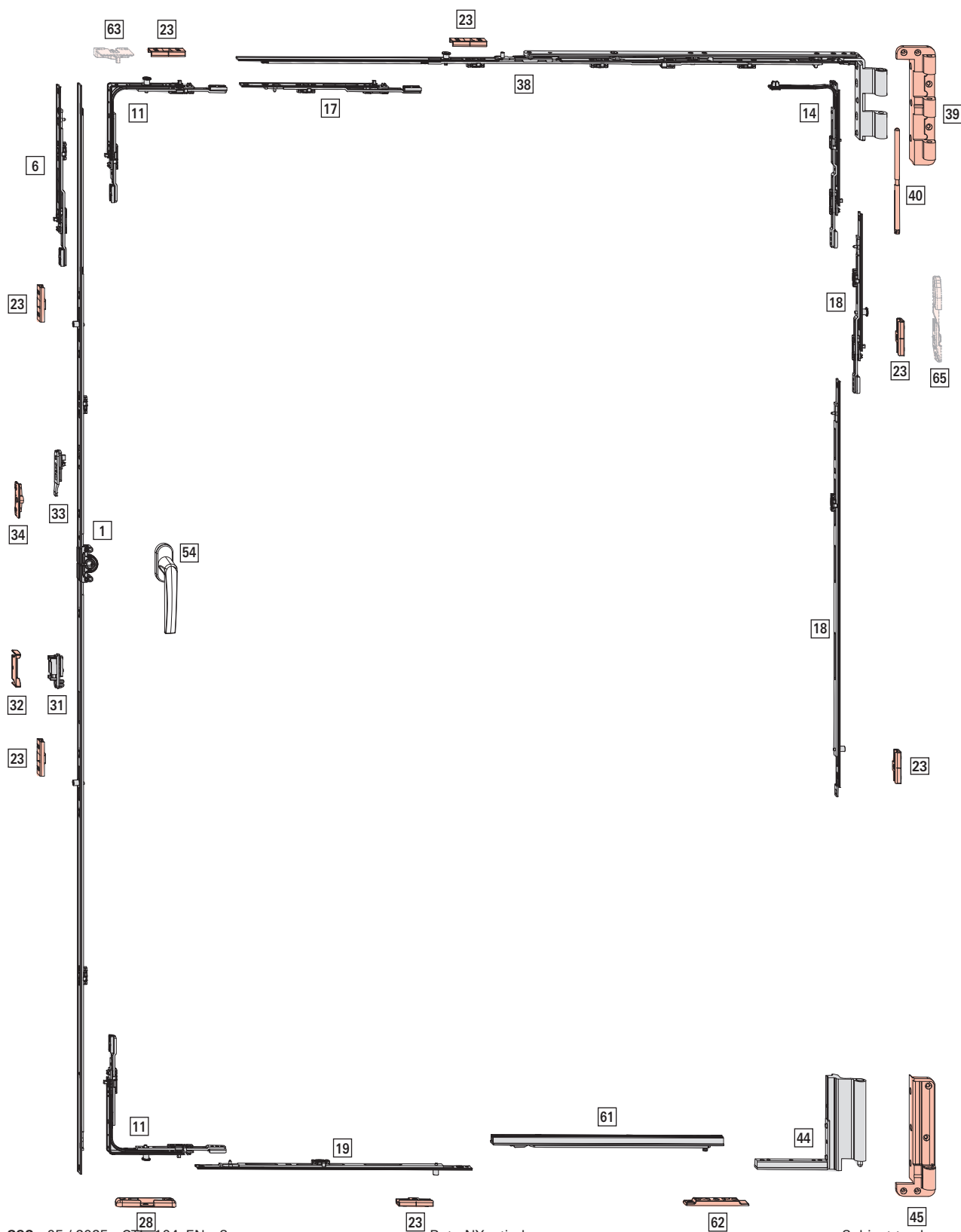


3.6 Hinge side Power Hinge

3.6.1 T&T espagnolette, VT – fixed handle height

3.6.1.1 Tilt&Turn hardware

3.6.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 650</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[66]	Support plate for anti-slam device → <i>from page 676</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

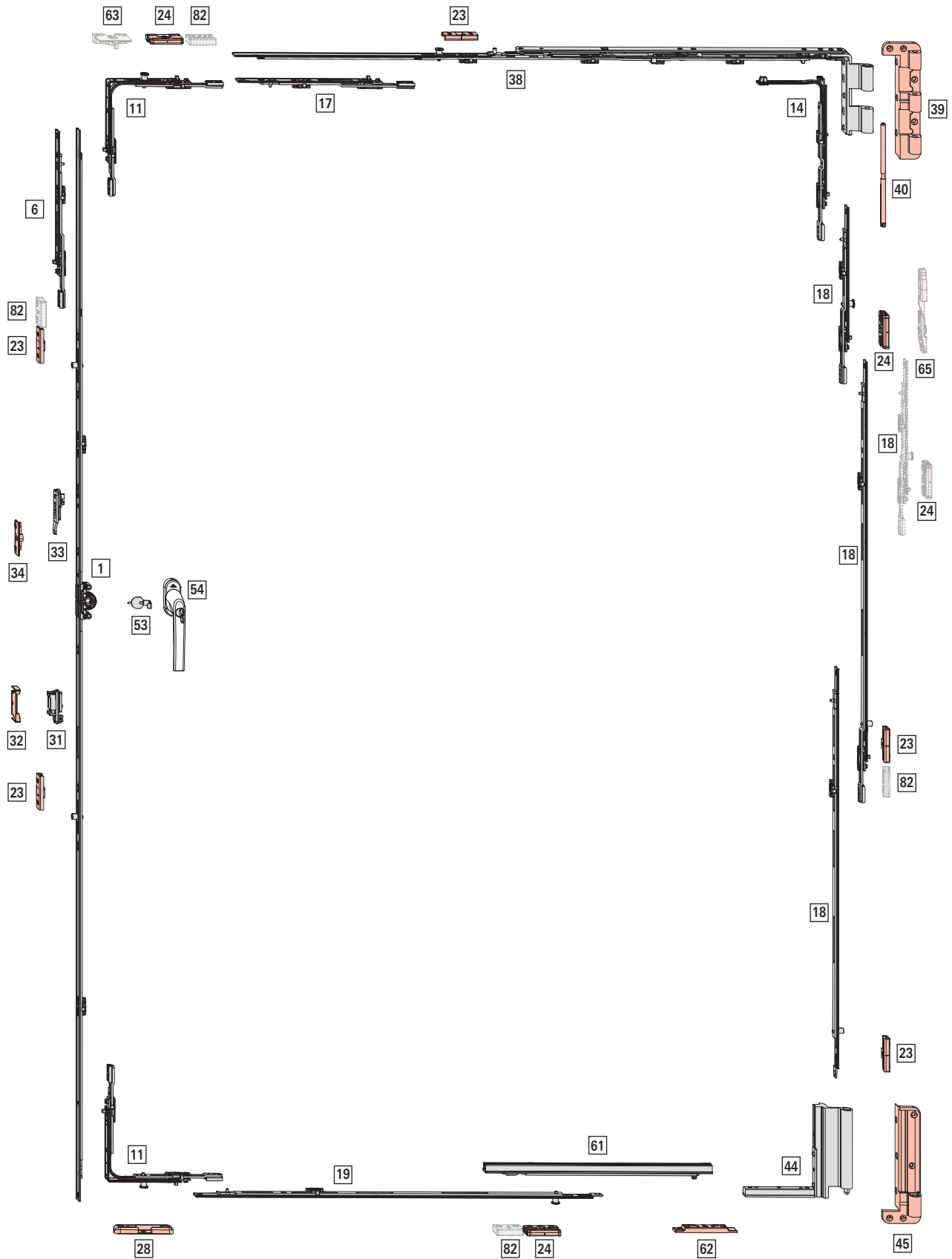
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3.6.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 650</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

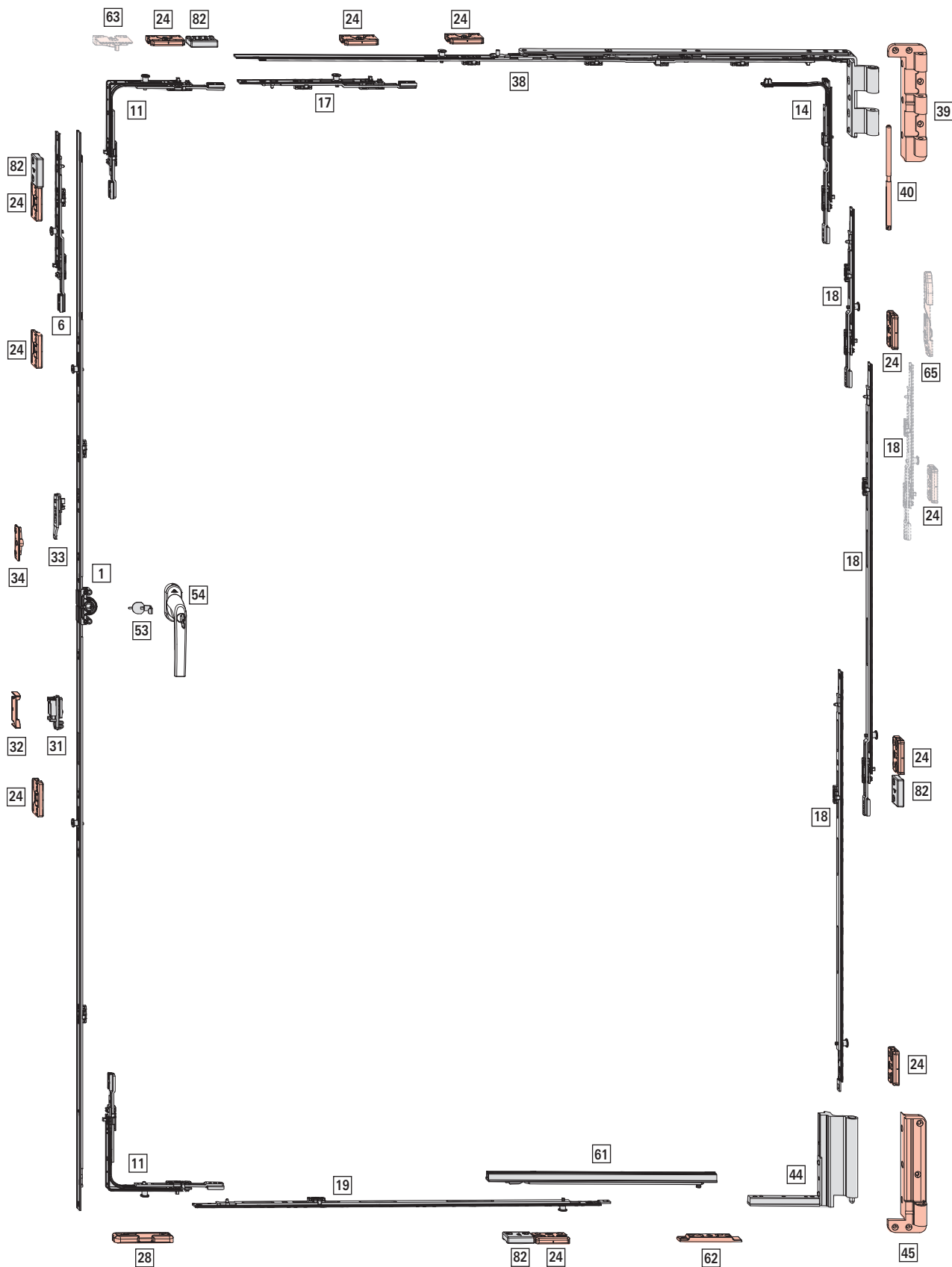
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3.6.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 650</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

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Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	TiltFirst tilt striker → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	TiltFirst sash stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	TiltFirst handle, lockable (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device → <i>from page 676</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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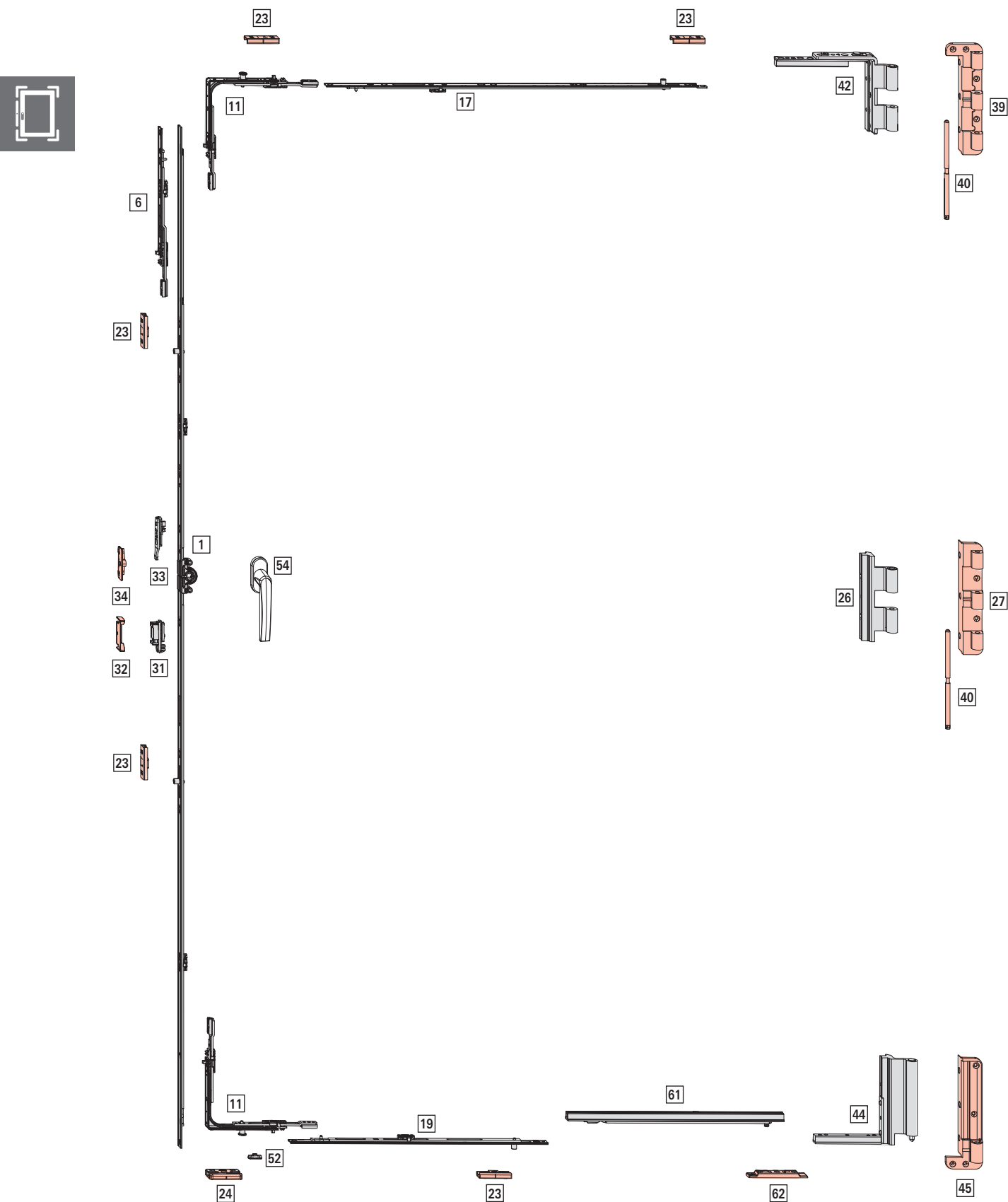
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3.6.1.3 Turn-Only hardware

3.6.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 300 kg



INFO

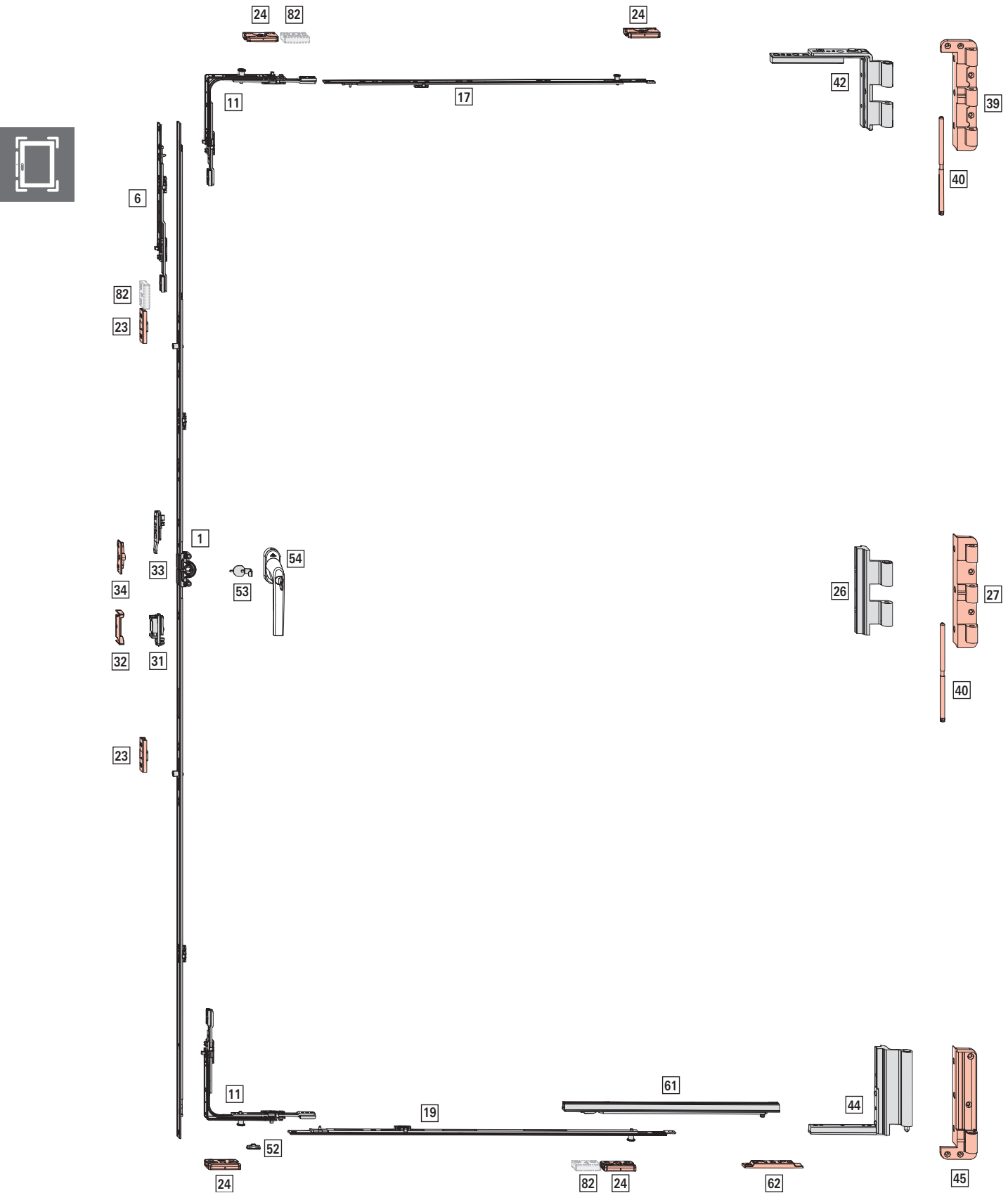
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3.6.1.3.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 300 kg



INFO

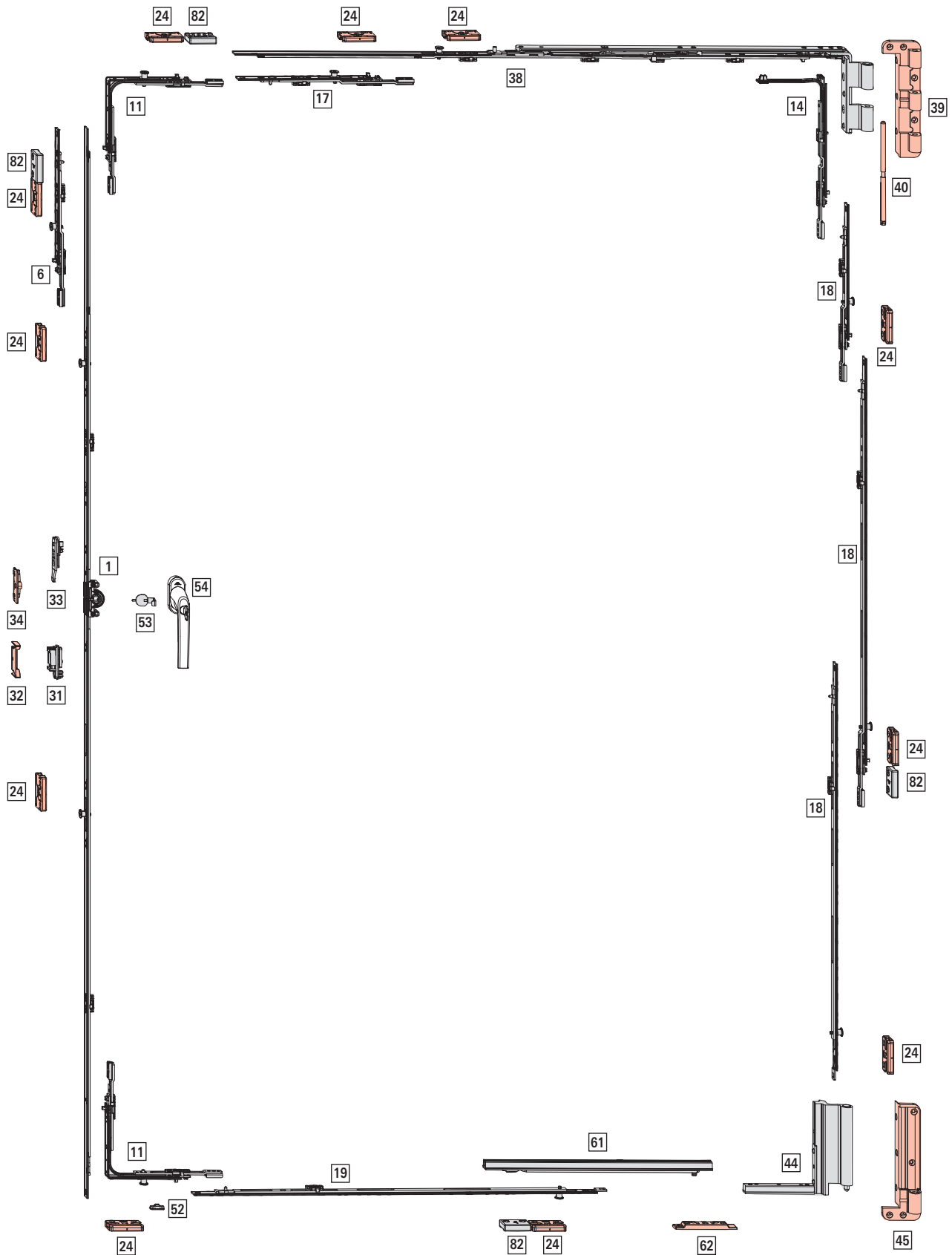
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3.6.1.3.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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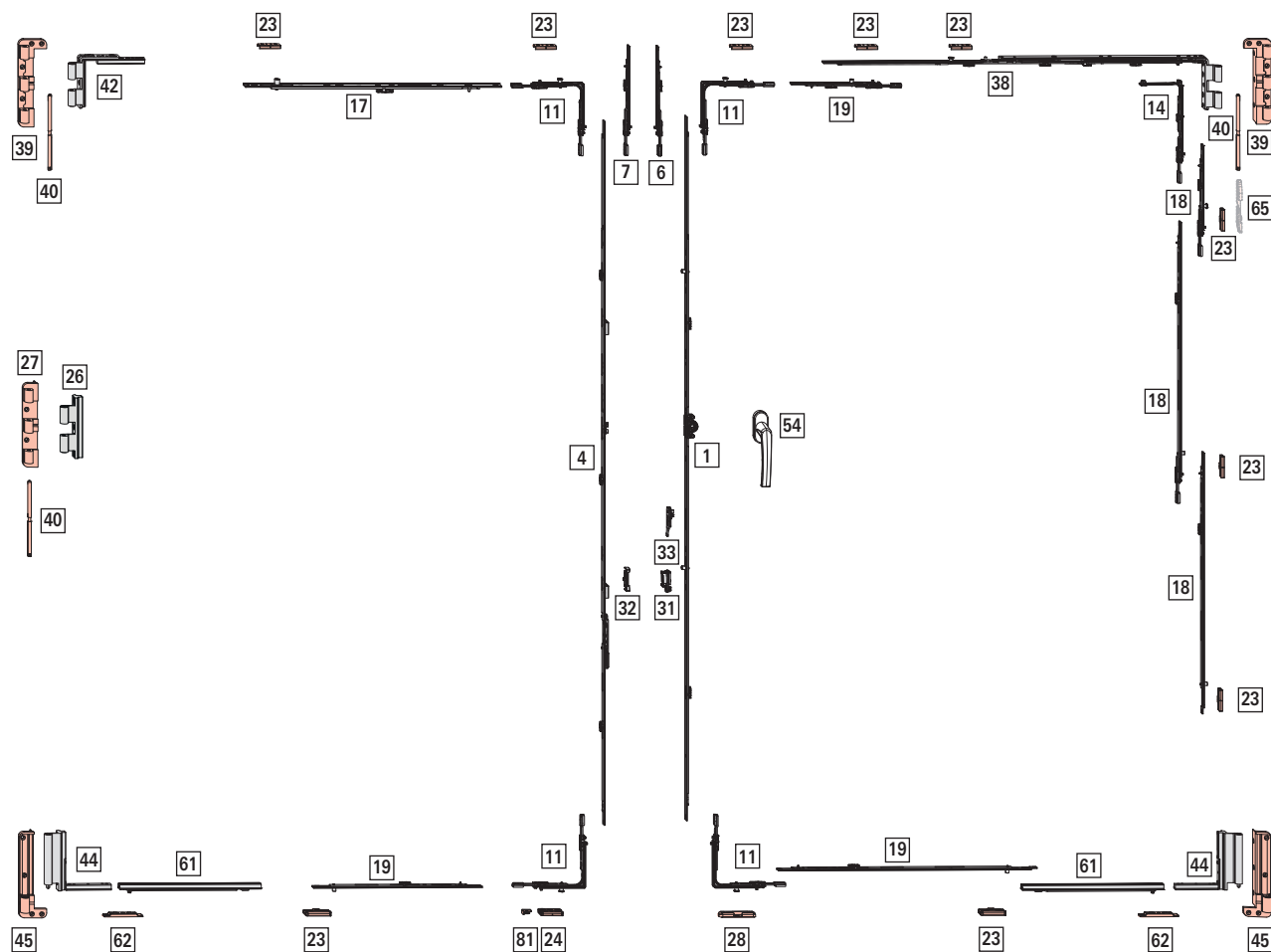
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3.6.1.4 Floating-mullion hardware – standard

3.6.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

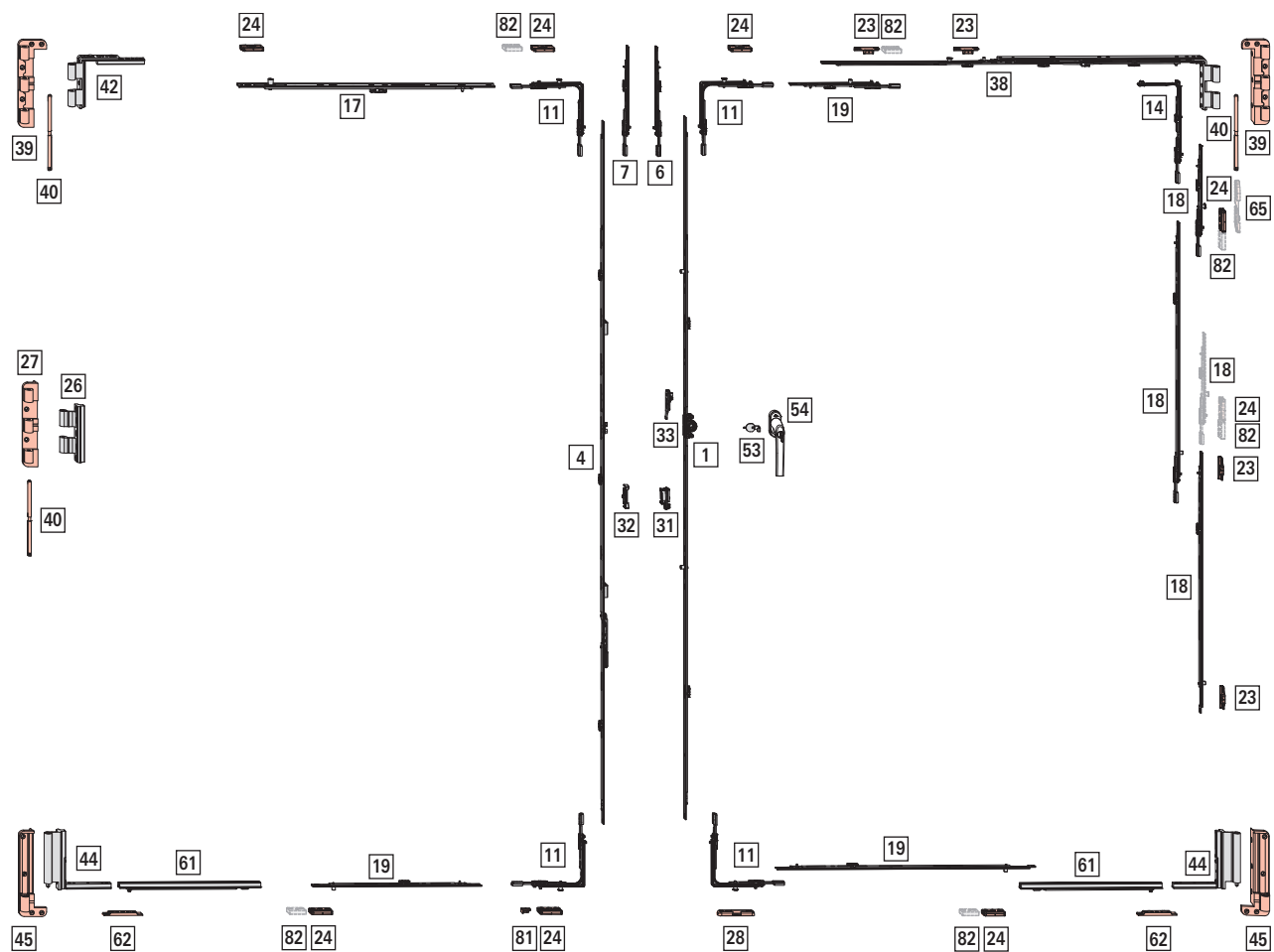
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3.6.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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3.6.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Standard, VT – fixed handle height → <i>from page 490</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp → <i>from page 662</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1400 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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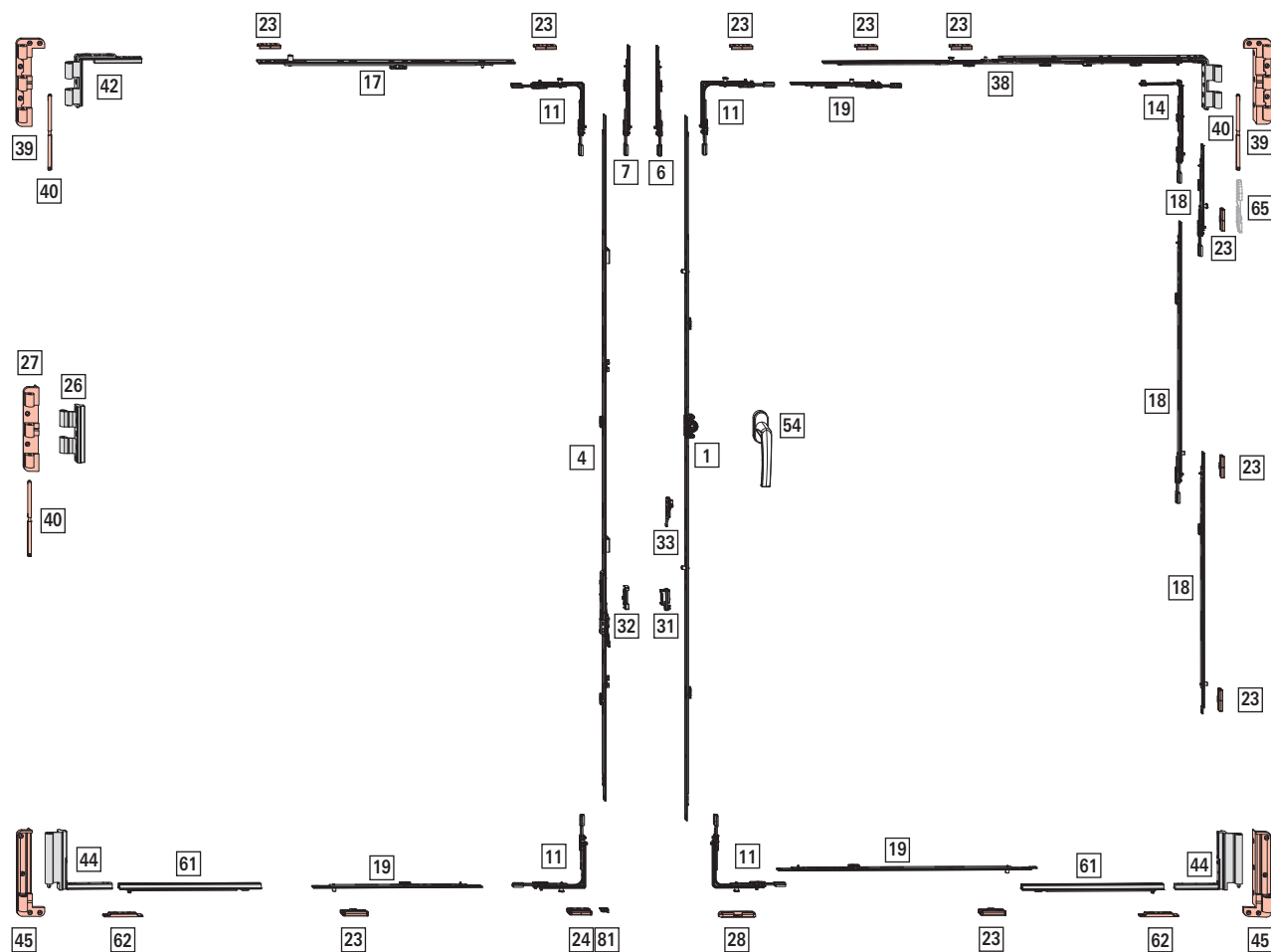
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3.6.1.5 Floating-mullion hardware – Plus

3.6.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 496</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

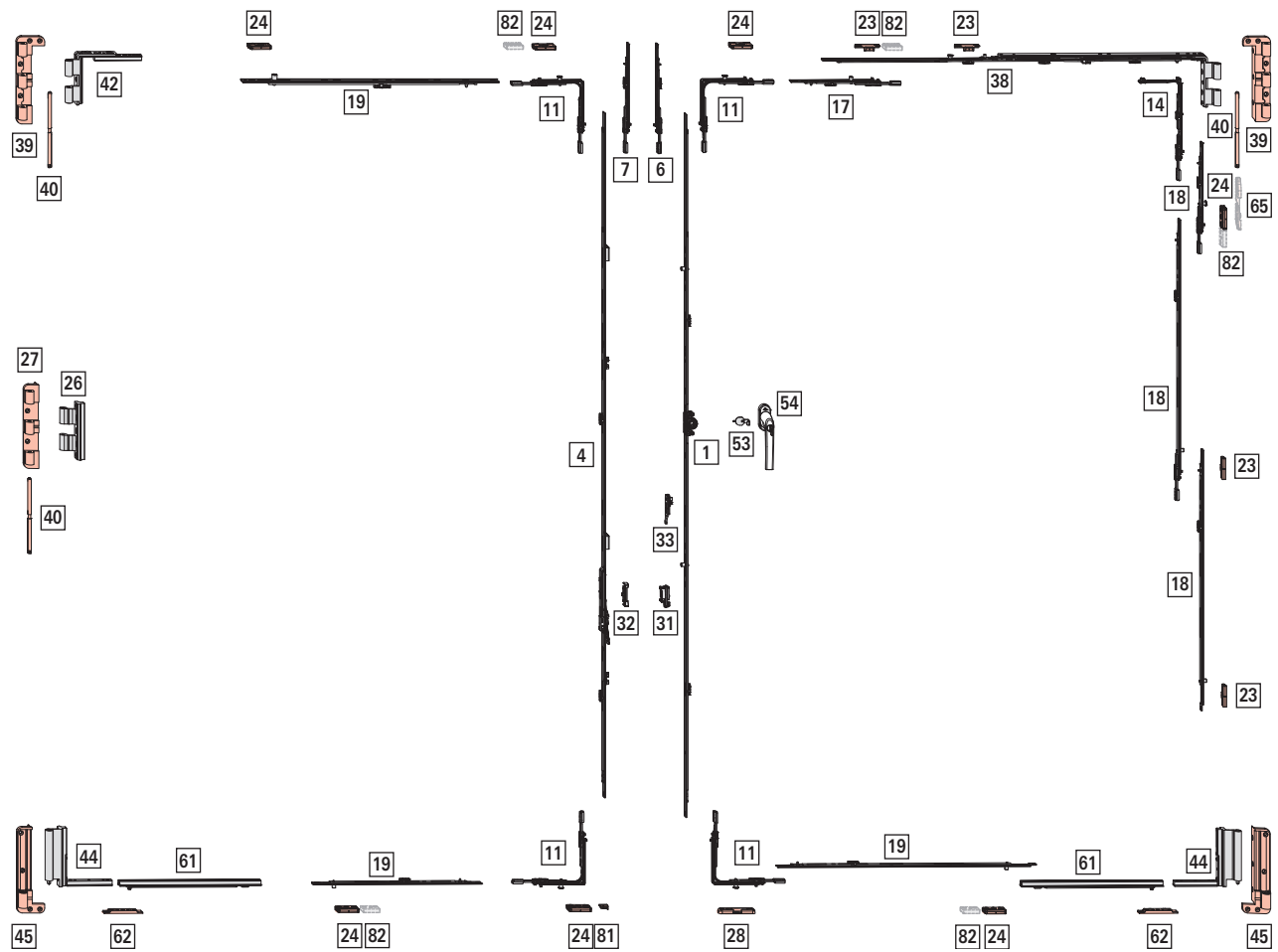
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3.6.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 496</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

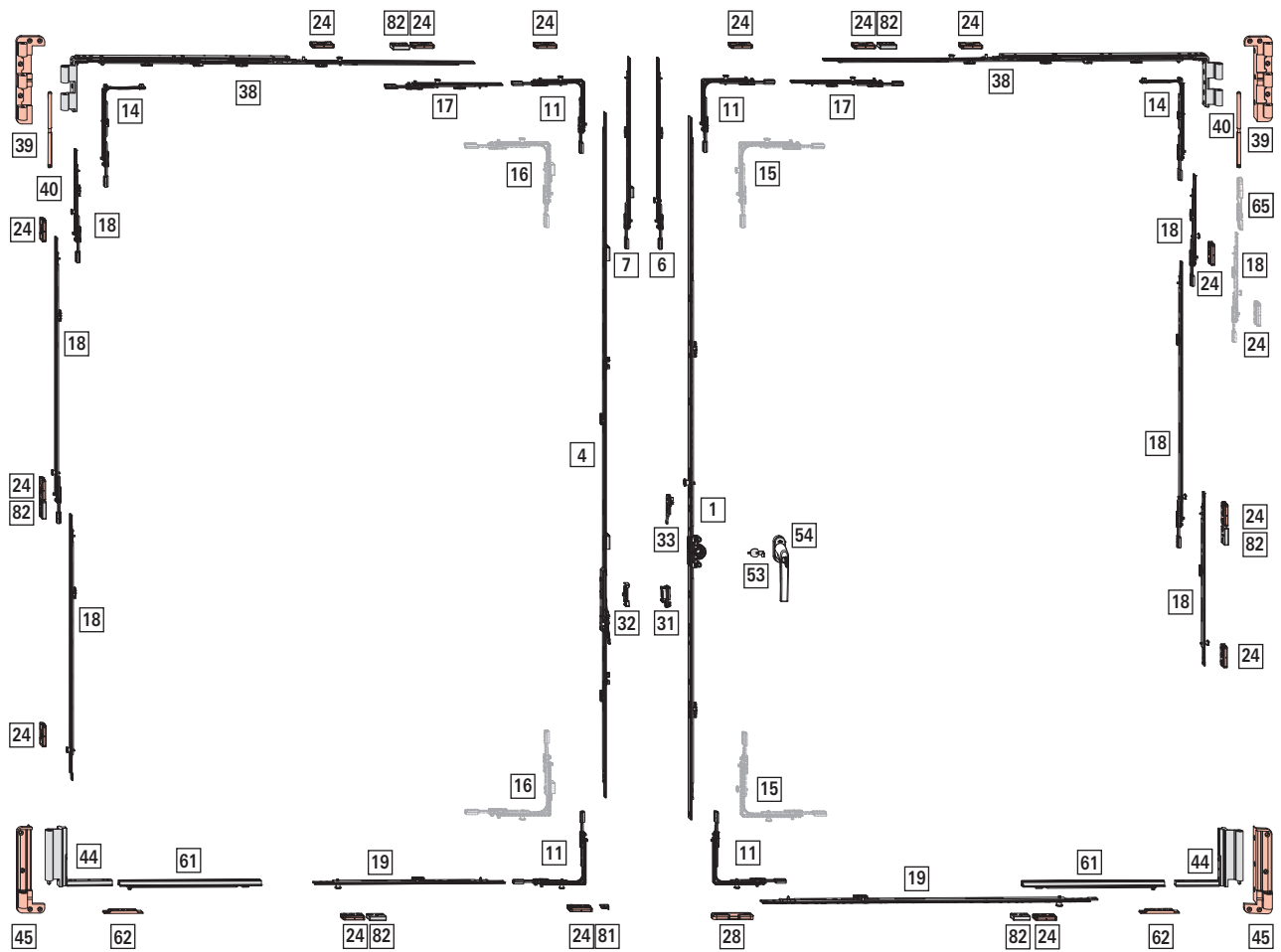
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3.6.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 448</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 496</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 510</i>
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1400 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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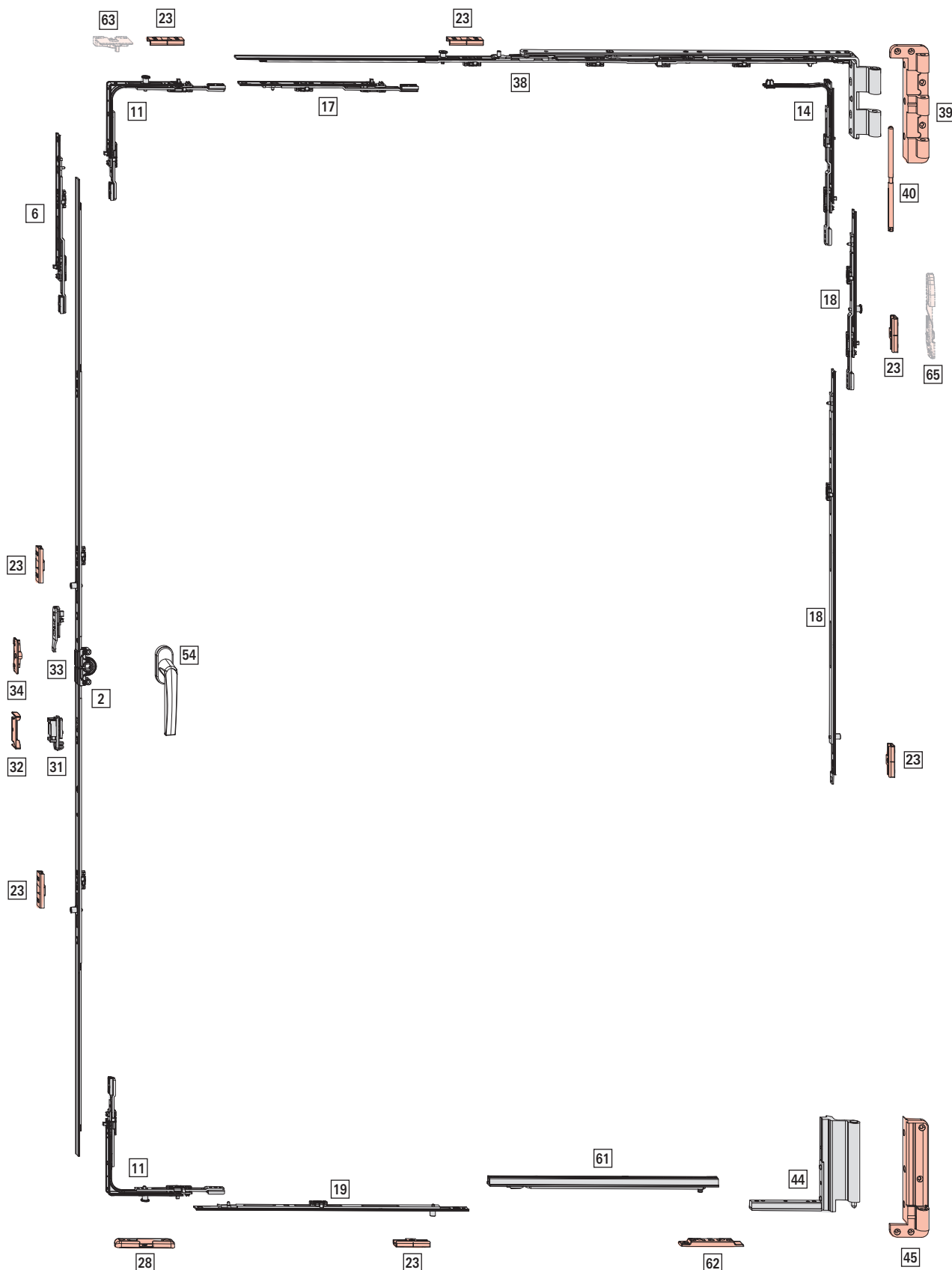


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3.6.2 T&T espagnolette – centred / variable handle height

3.6.2.1 Tilt&Turn hardware

3.6.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 650</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

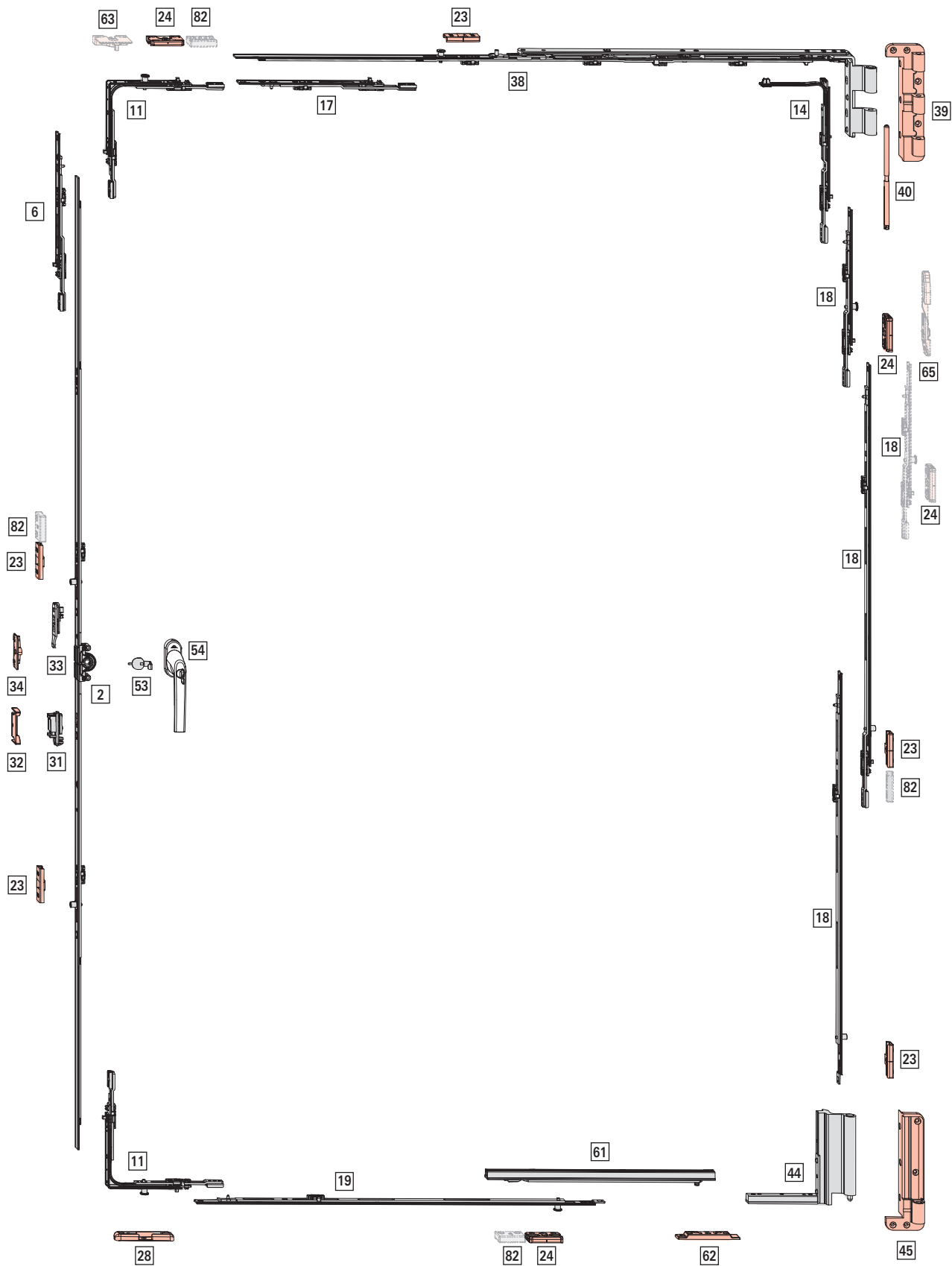
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3.6.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 650</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

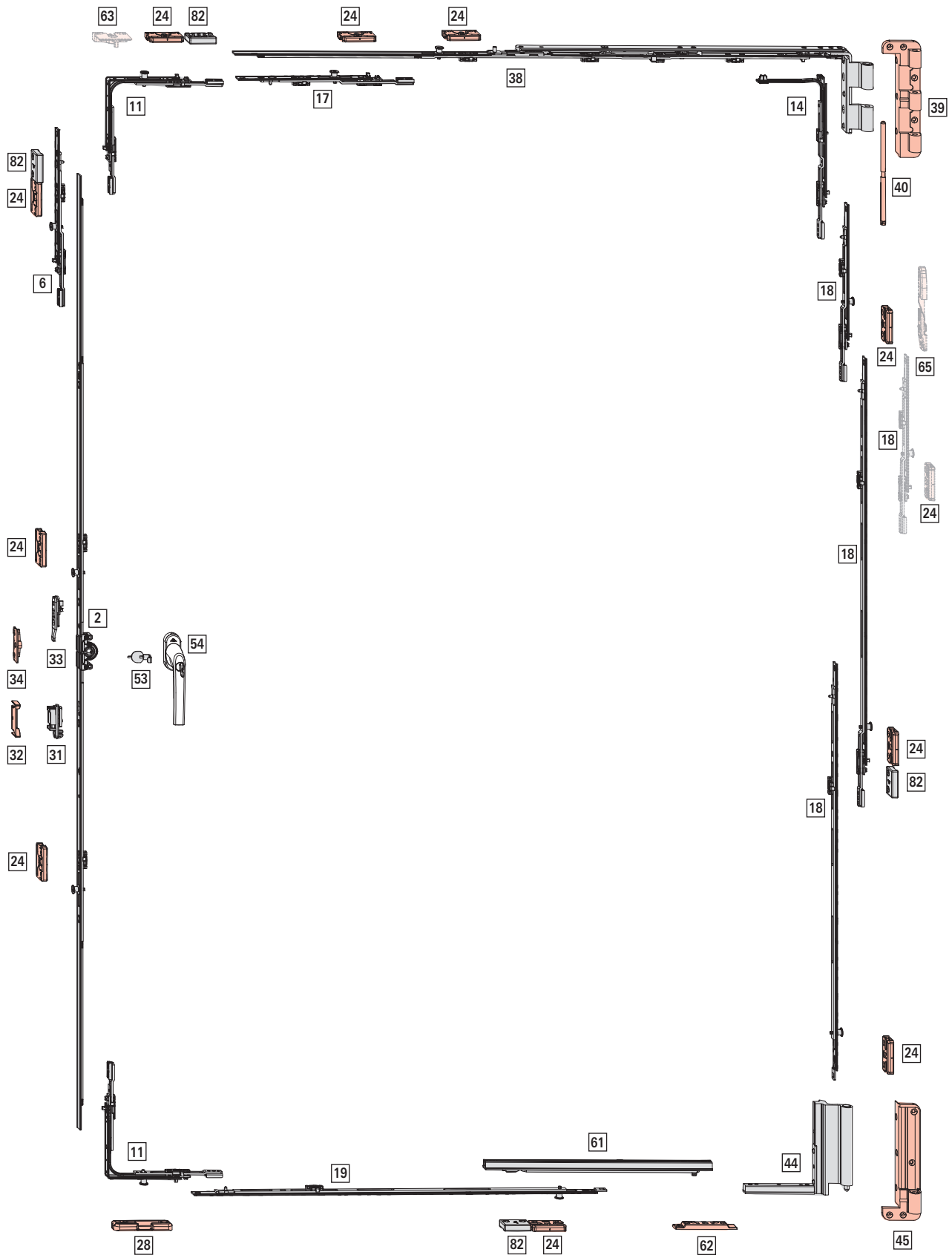
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3.6.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 650</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[28]	TiltFirst tilt striker → <i>from page 614</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	TiltFirst sash stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	TiltFirst handle, lockable (see catalogue CTL_1)
	 INFO Use the lockable TiltFirst handle for child safe windows, see CTL_1.
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device → <i>from page 676</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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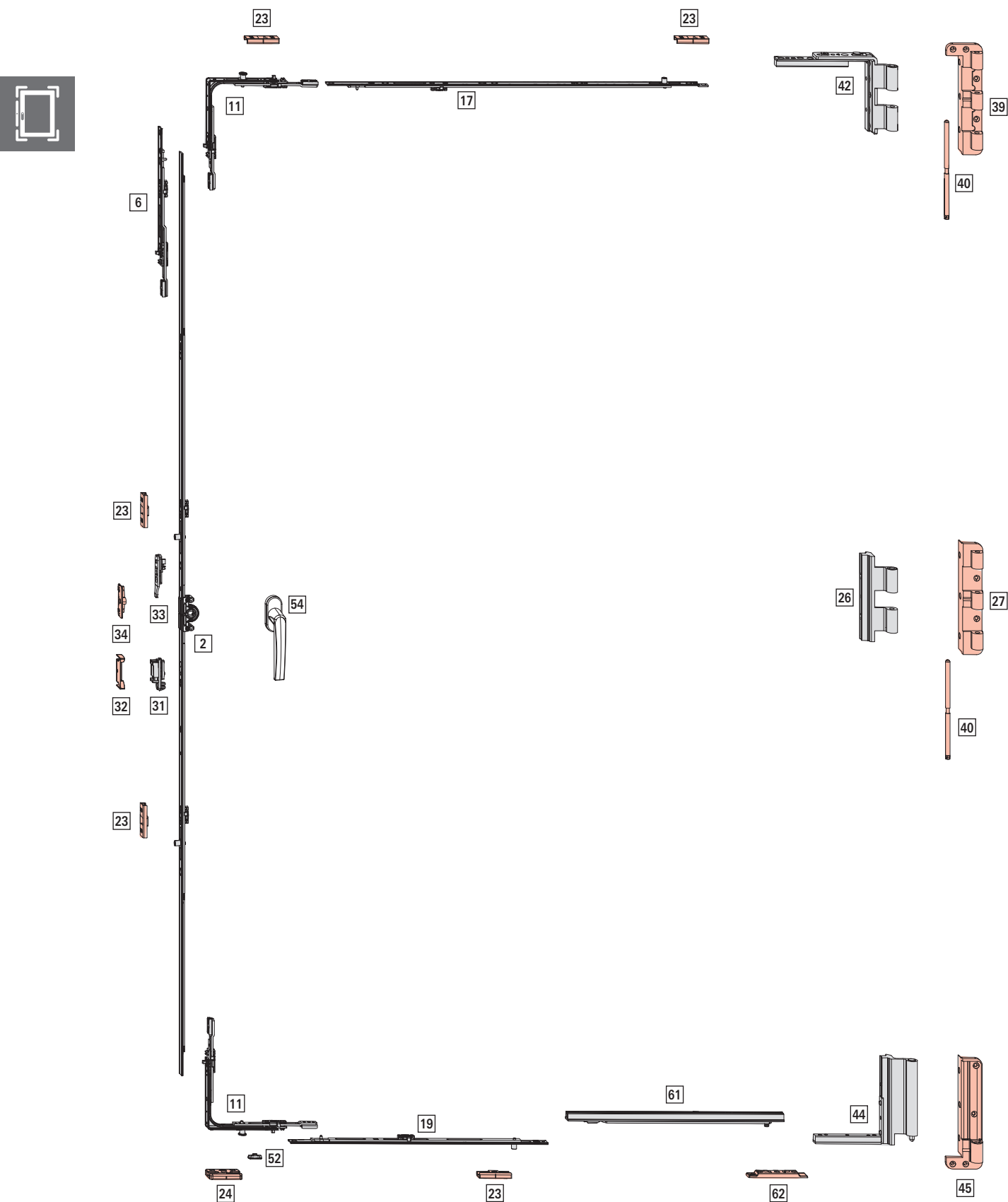
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3.6.2.3 Turn-Only hardware

3.6.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[52]	Travel restrictor → <i>from page 676</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 300 kg



INFO

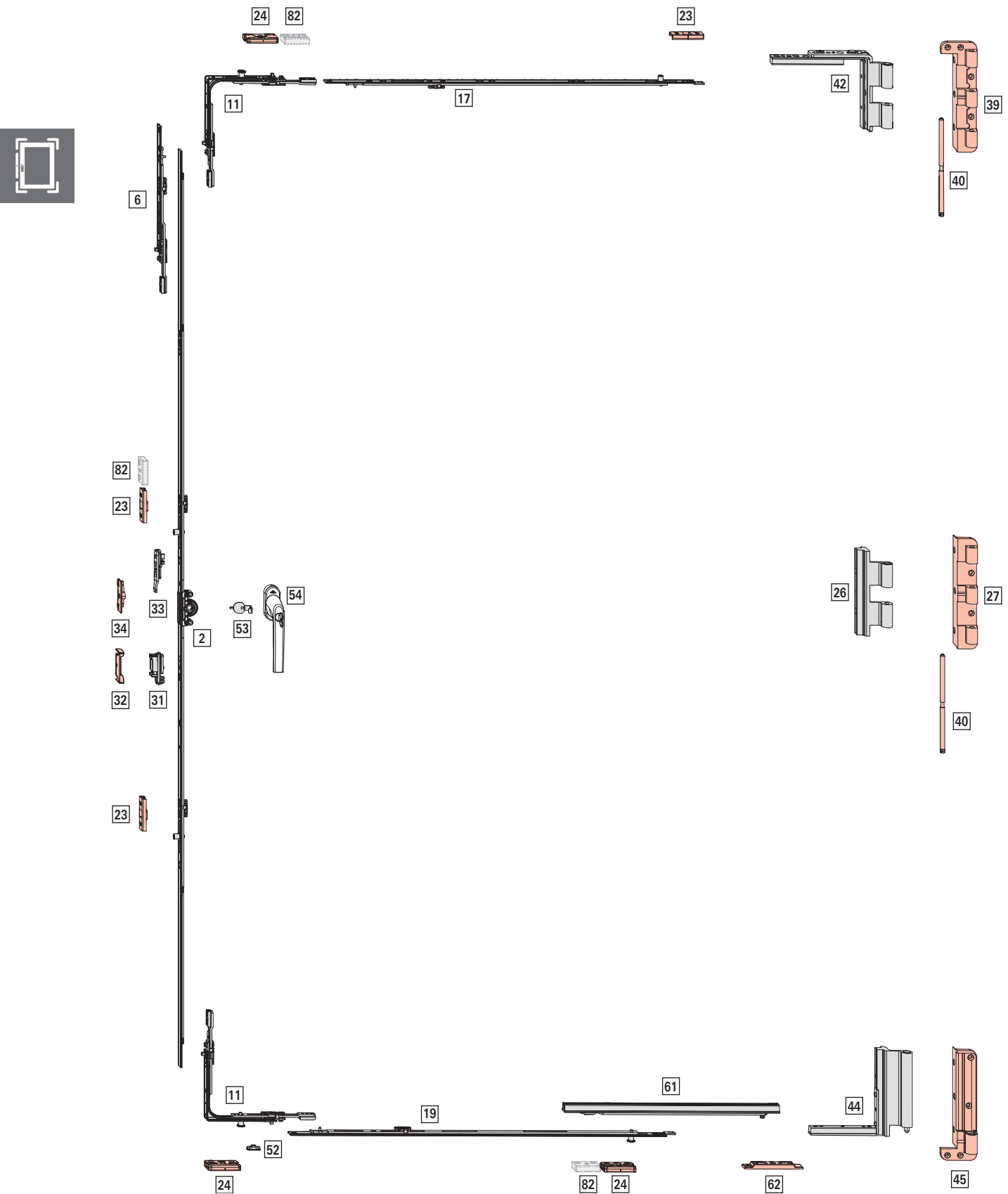
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3.6.2.3.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[17]	Centre lock, multipart – standard, horizontal – top → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 300 kg



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3.6.2.3.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[6]	Centre lock, multipart – security → <i>from page 570</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[34]	Lifting mishandling device frame component → <i>from page 653</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[52]	Travel restrictor → <i>from page 676</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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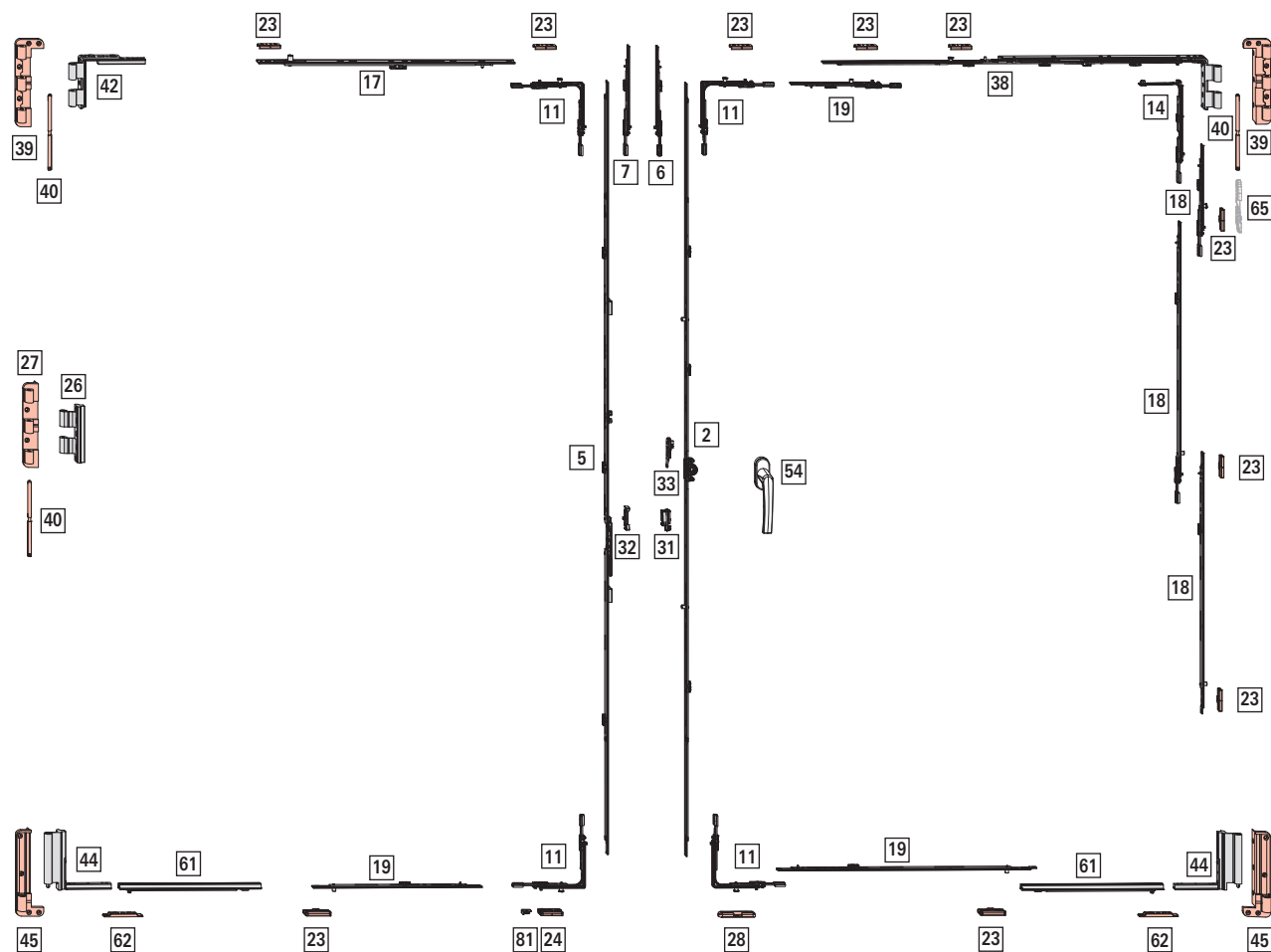
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3.6.2.4 Floating-mullion hardware – standard

3.6.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

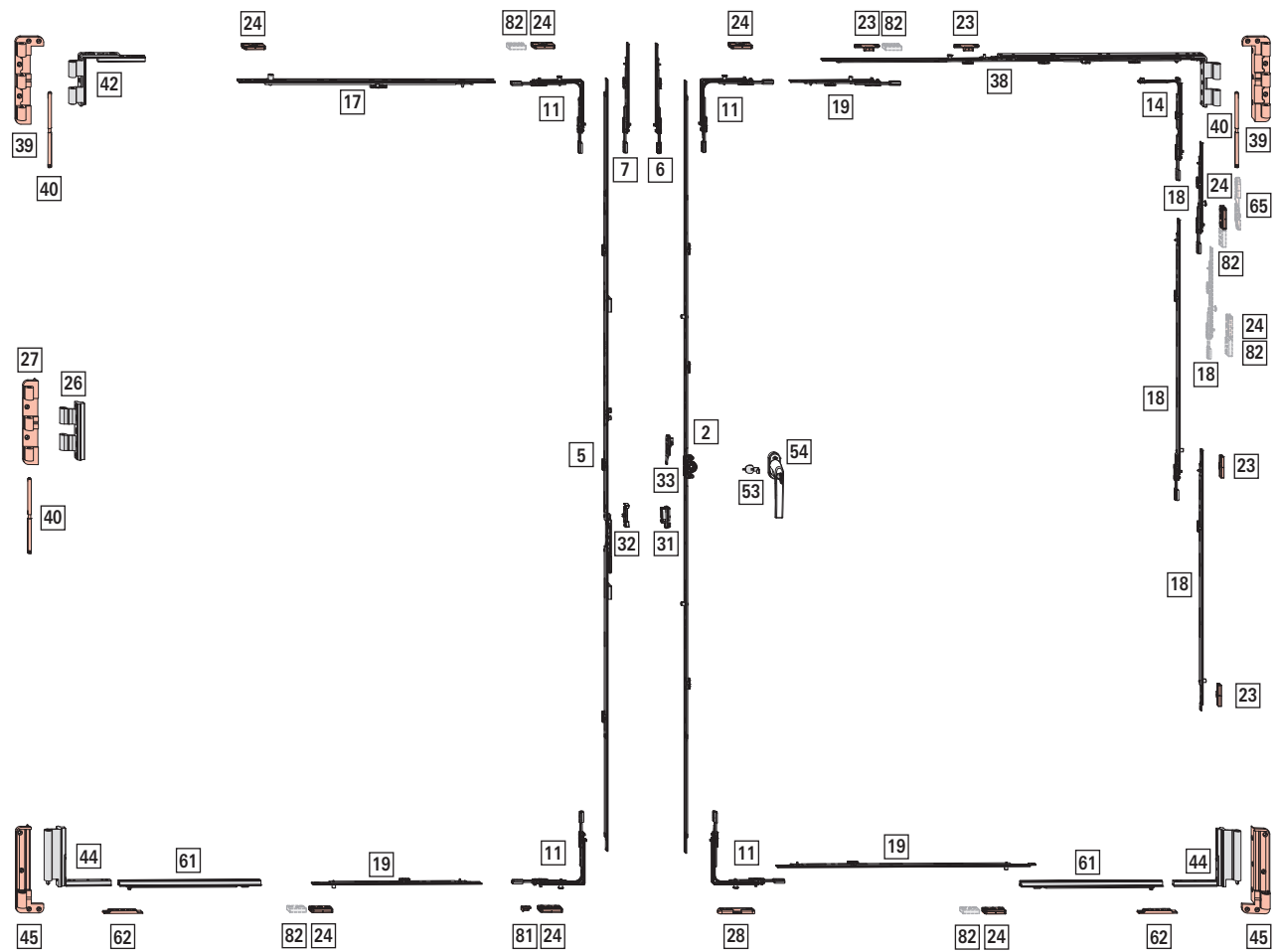
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3.6.2.4.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

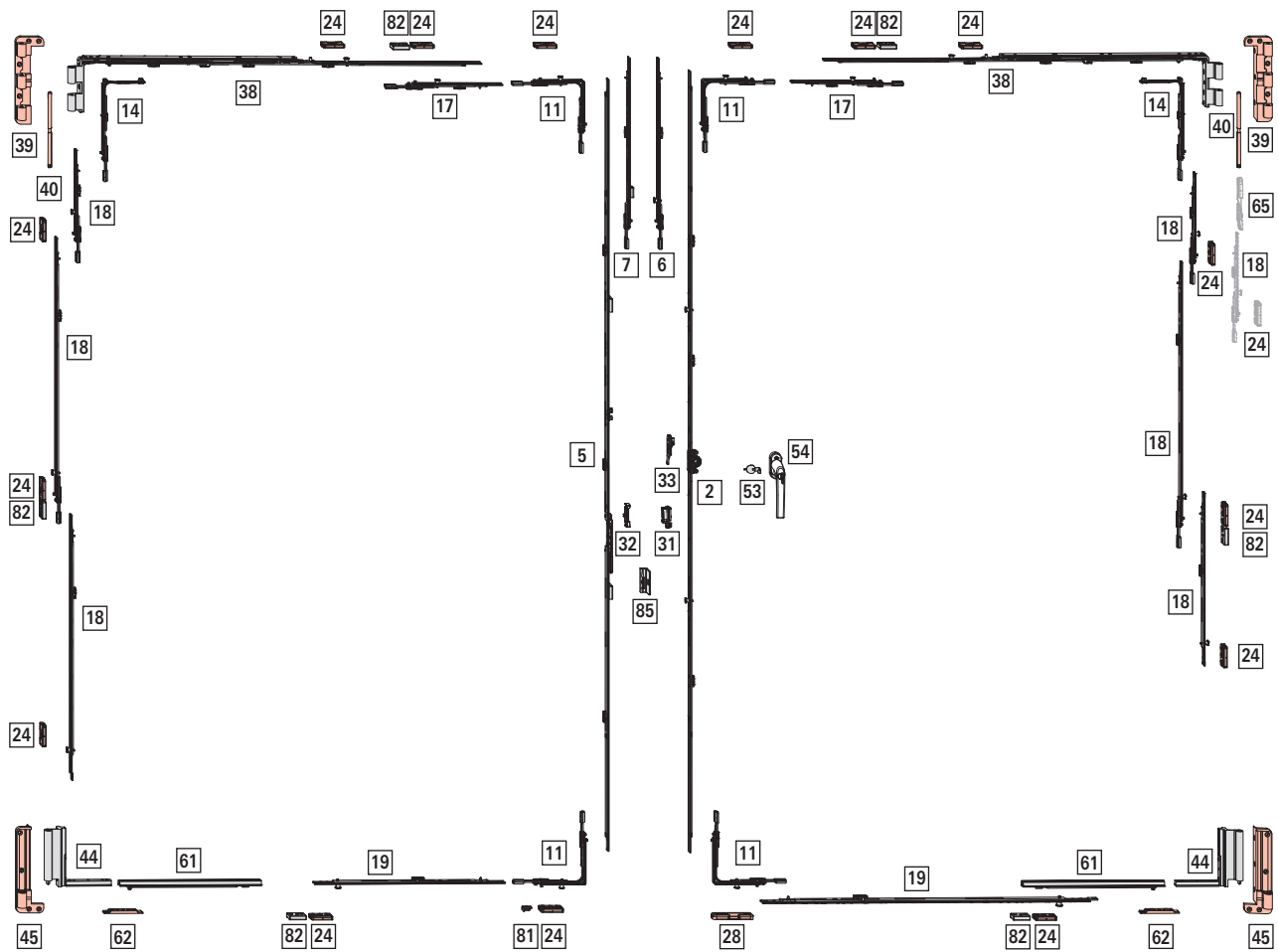
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3.6.2.4.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Standard – centred / variable handle height → <i>from page 493</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>
[85]	Retainer clasp → <i>from page 662</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1400 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

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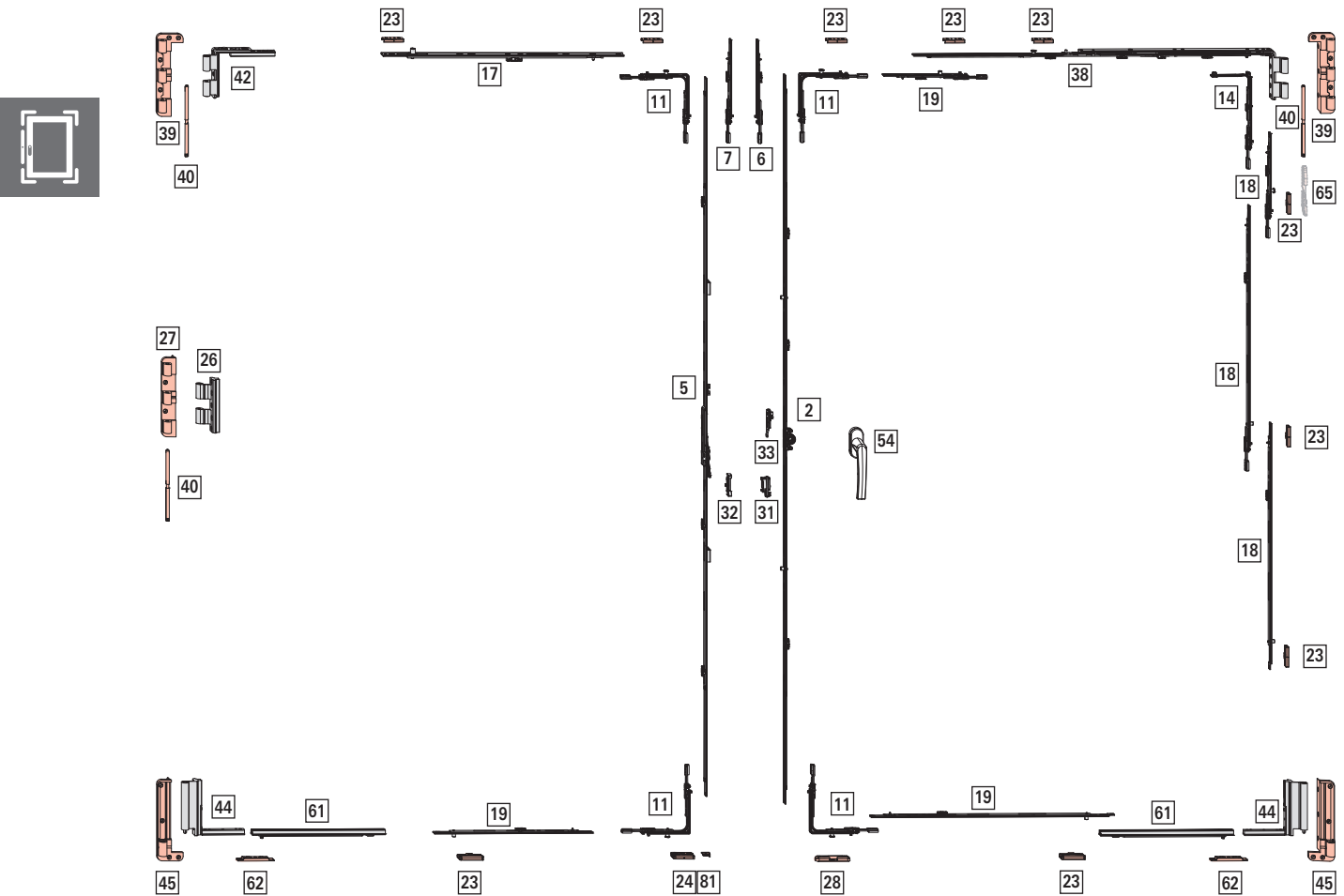
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3.6.2.5 Floating-mullion hardware – Plus

3.6.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

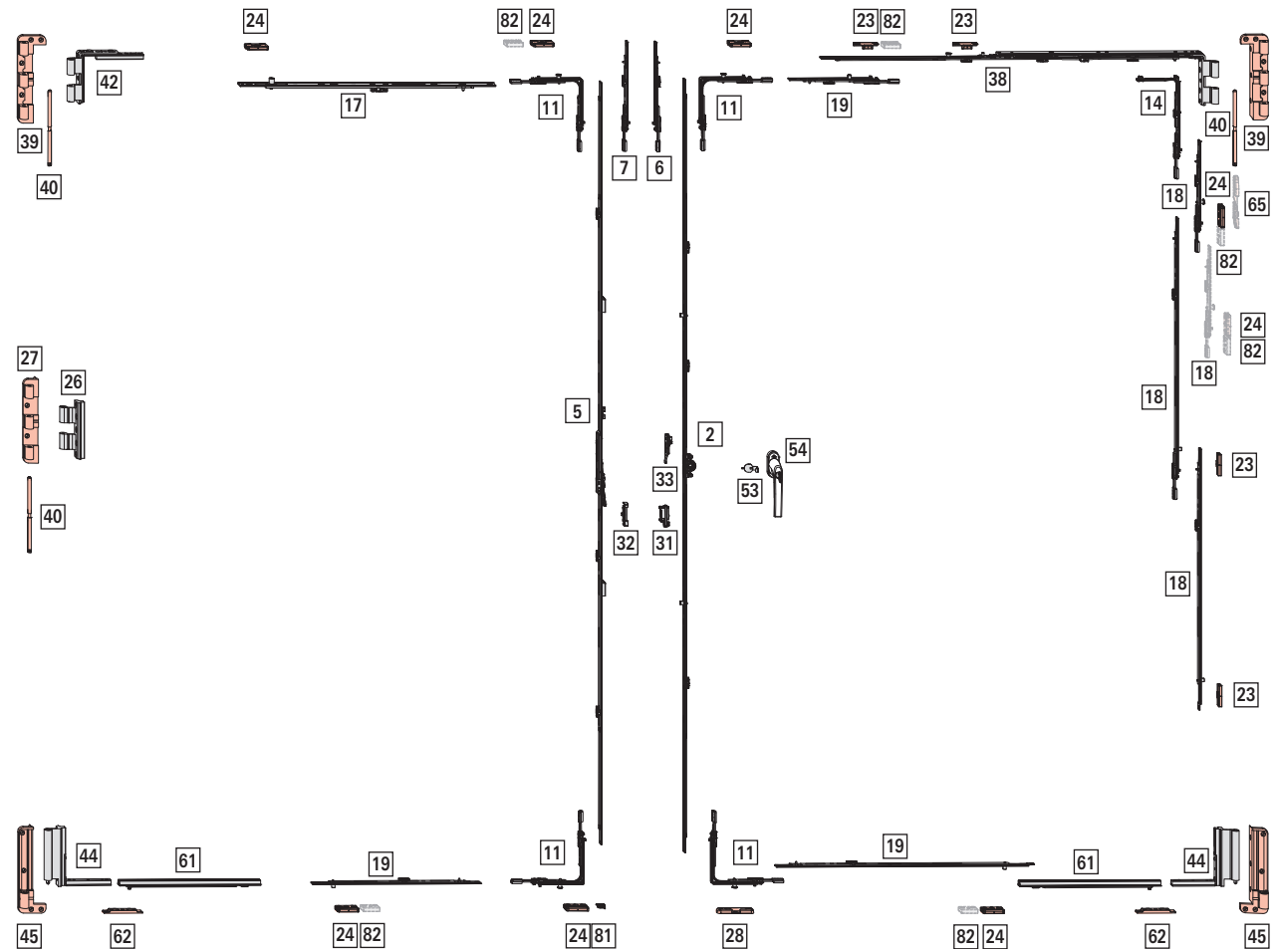
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3.6.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 570</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – top, first opening sash → <i>from page 570</i>
[19]	Centre lock, multipart – standard, horizontal – bottom → <i>from page 570</i>
[23]	Striker → <i>from page 616</i>
[24]	Striker, security → <i>from page 616</i>
[26]	Rebate central hinge → <i>from page 555</i>
[27]	Central bearing → <i>from page 555</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[42]	Rebate stay hinge → <i>from page 552</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1600 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



INFO

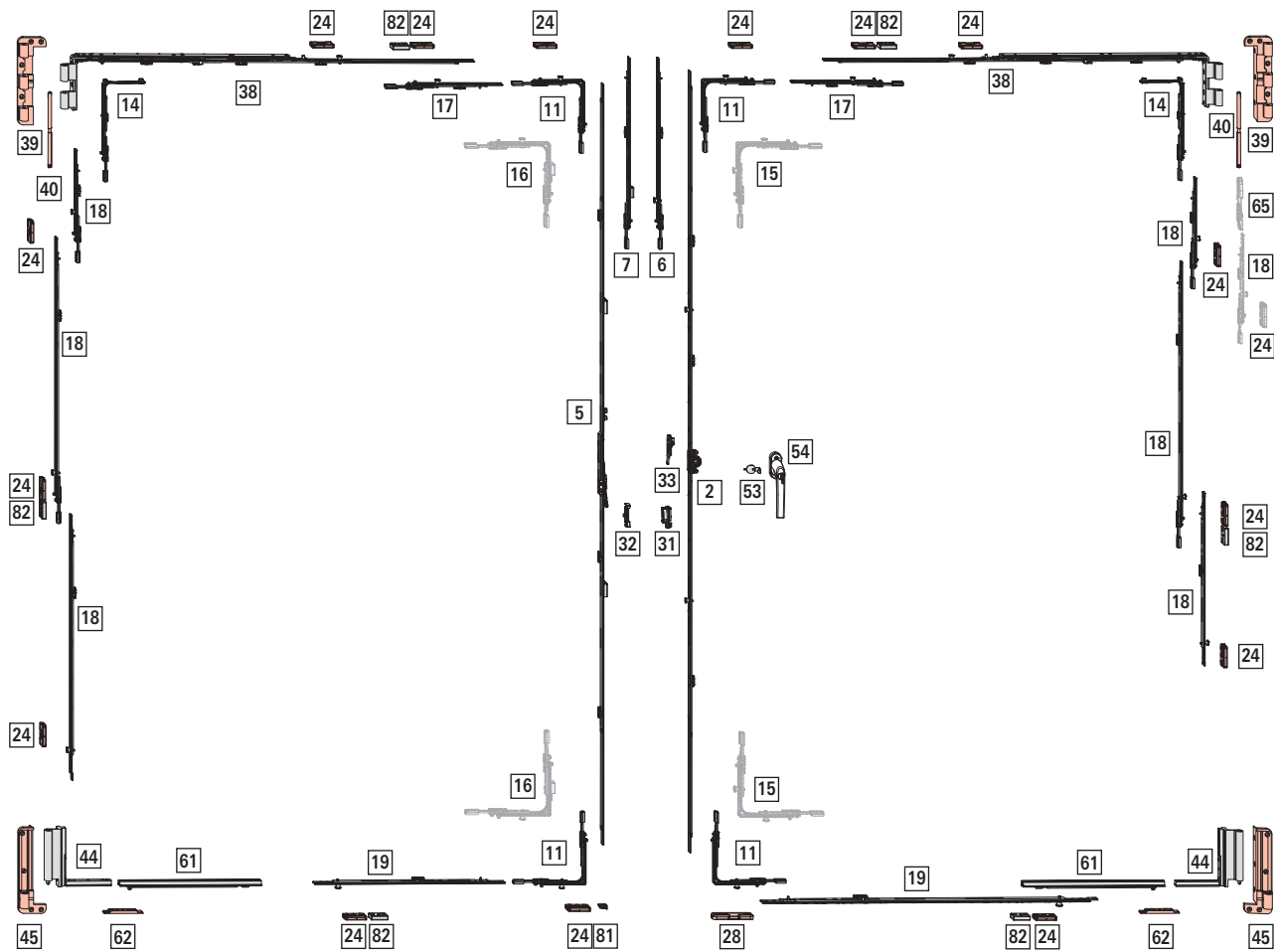
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3.6.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 460</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 499</i>
[6]	Centre lock, multipart – standard → <i>from page 570</i>
[7]	Floating-mullion centre lock → <i>from page 574</i>
[11]	Corner drive, standard → <i>from page 508</i>
[14]	Sash stay corner drive
[15]	Corner drive, standard RC 3 → <i>from page 508</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 510</i>
[17]	Centre lock, multipart – security, horizontal – top → <i>from page 570</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 570</i>
[19]	Centre lock, multipart – security, horizontal – bottom → <i>from page 570</i>
[24]	Striker, security → <i>from page 616</i>
[28]	Tilt striker → <i>from page 612</i>
[31]	Bullet-catch sash component → <i>from page 644</i>
[32]	Bullet-catch frame component → <i>from page 644</i>
[33]	Lifting mishandling device sash component → <i>from page 654</i>
[38]	Stay arm / stay guide → <i>from page 543</i>
[39]	Stay bearing → <i>from page 562</i>
[40]	Stay-bearing pin → <i>from page 563</i>
[44]	Rebate corner hinge → <i>from page 597</i>
[45]	Pivot rest → <i>from page 603</i>
[53]	Drilling protection → <i>from page 662</i>
[54]	Handle, lockable (see catalogue CTL_1)
[61]	Turn restrictor 335, sash component → <i>from page 656</i>
[62]	Turn restrictor 335, frame component → <i>from page 656</i>
[65]	Anti-slam device (optional) → <i>from page 676</i>
[81]	Run-up block → <i>from page 667</i>
[82]	Anti-jemmy device → <i>from page 663</i>

Application range

Basic security		
	Sash rebate width (SRW)	600 – 1400 mm
	Sash rebate height (SRH)	1200 – 3000 mm
	Sash weight (S.kg)	Max. 200 kg



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





T&T espagnolette, VT – fixed handle height

Backset 8 mm	448
Backset 15 mm	450
Backset 25, 30, 35, 40, 45, 50 mm	453

T&T espagnolette – centred / variable handle height

Backset 8 mm	460
Backset 15 mm	461
Backset 25, 30, 35, 40, 45, 50 mm	463

T&T espagnolettes – Special solutions

T&T adaptable espagnolette	469
T&T espagnolette – comfort	474

Turn-Only/Tilt-Only espagnolette

Backset 8 mm	475
Backset 15 mm	476
Backset 25, 30, 35, 40, 45, 50 mm	479

T-O backset espagnolette

Timber backset espagnolette adapter	482
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Espagnolette connector

VT	484
Protrusion	484
Tilt-Only sash	485
Arched window	485
Floating-mullion sash	485
Euro-groove 7/8	486

Espagnolette extension

Euro-groove 7/8	487
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Floating-mullion sash espagnolette

Standard	488
Plus	494
Euro-groove 7/8	499

Shootbolt

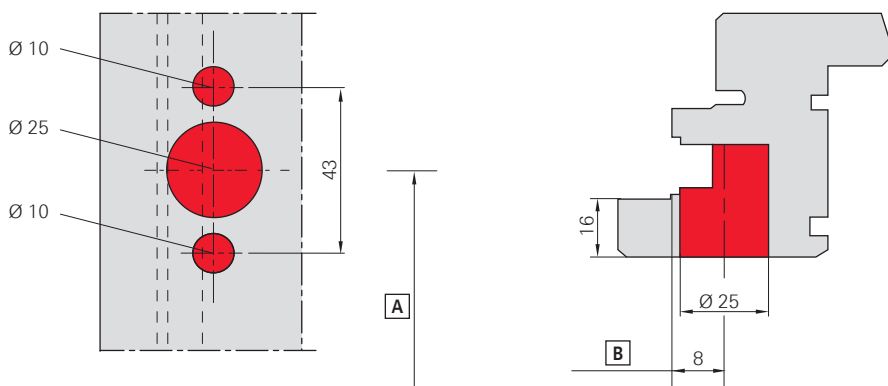
Opposite hardware groove	501
Euro-rebate	501
Euro-groove 7/8	502
Can be routed in	502

4 Espagnolettes

4.1 T&T espagnolette, VT – fixed handle height

4.1.1 Backset 8 mm

4.1.1.1 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.

4.1.1.2 Fixed handle height



8	300 – 600	490	200	120	N	N	Y	– / 1	– / P	Roto Sil	734530
	511 – 710	600	200	170	Y	N	Y	– / 1	– / P	Roto Sil	795325
	601 – 800	690	200	263	N	N	N	– / –	– / –	Roto Sil	771919
			200	263	N	N	N	1 / –	E / –	Roto Sil	893471
	801 – 1000	890	200	413	Y	N	N	1 / –	E / –	Roto Sil	771920
	1001 – 1200	1090	200	513	Y	N	N	1 / –	E / –	Roto Sil	771921
	1201 – 1400	1290	200	563	Y	N	N	1 / –	E / –	Roto Sil	771922
	1401 – 1600	1490	200	563	Y	N	N	2 / –	E / –	Roto Sil	771923
	1601 – 1800	1690	200	563	Y	N	N	2 / –	E / –	Roto Sil	771924
			200	1000	Y	Y	N	2 / –	E / –	Roto Sil	795269
	1801 – 2000	1890	200	1000	Y	Y	N	2 / –	E / –	Roto Sil	795271
	2001 – 2200	2090	200	1000	Y	Y	N	2 / –	E / –	Roto Sil	795273
	2201 – 2400	2290	200	1000	Y	Y	N	3 / –	E / –	Roto Sil	795275

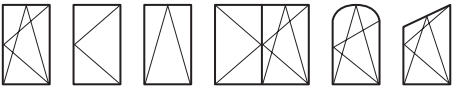


INFO

A centre lock is required from SRH 2401 mm.



4.1.1.3 Fixed handle height – security



											
8	601 – 800	690	200	263	N	N	N	– / –	– / –	Roto Sil	771919
	801 – 1000	890	200	413	Y	N	N	1 / –	V / –	Roto Sil	771940
	1001 – 1200	1090	200	513	Y	N	N	1 / –	V / –	Roto Sil	771941
	1201 – 1400	1290	200	563	Y	N	N	1 / –	V / –	Roto Sil	771942
	1401 – 1600	1490	200	563	Y	N	N	2 / –	V / –	Roto Sil	771943
	1601 – 1800	1690	200	563	Y	N	N	2 / –	V / –	Roto Sil	771944
			200	1000	Y	Y	N	2 / –	V / –	Roto Sil	795270
	1801 – 2000	1890	200	1000	Y	Y	N	2 / –	V / –	Roto Sil	795272
	2001 – 2200	2090	200	1000	Y	Y	N	3 / –	V / –	Roto Sil	795274
2201 – 2400	2290	200	1000	Y	Y	N	3 / –	V / –	Roto Sil	795276	

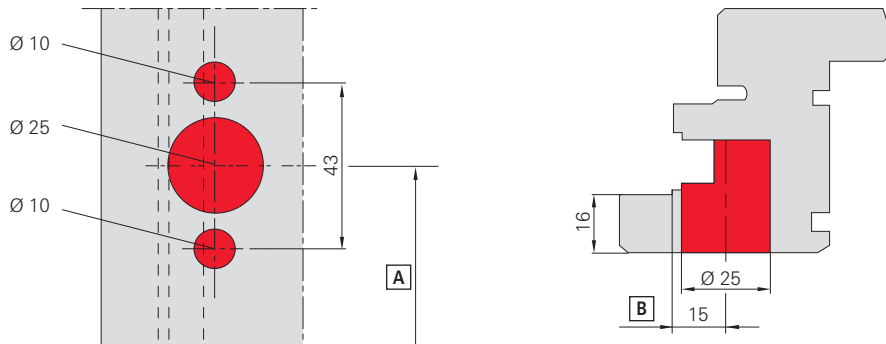


INFO

A centre lock is required from SRH 2401 mm.

4.1.2 Backset 15 mm

4.1.2.1 Drilling and routing pattern



Assignment	Meaning
[A]	Handle height
[B]	Backset

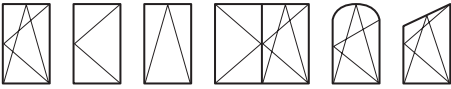
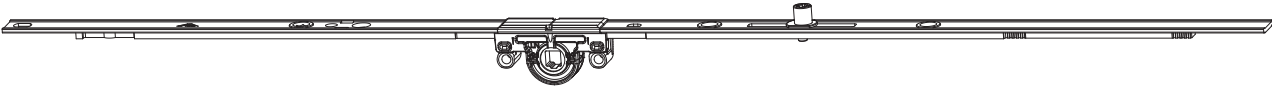


INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M5 x ... DIN EN ISO 7046.



4.1.2.2 Fixed handle height

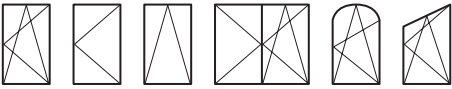
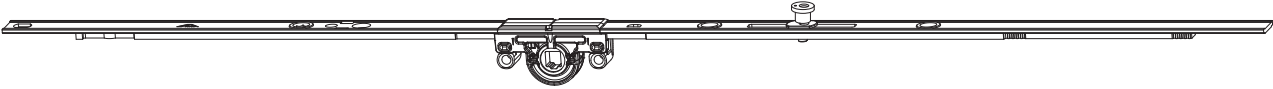


15	280 – 570	460	200	120	N	N	Y	– / 1	– / P	Roto Sil	742199
	511 – 710	600	200	170	Y	N	Y	– / 1	– / P	Roto Sil	795324
			200	170	Y	N	N	1 / –	P / –	Roto Sil	795277
	601 – 800	690	200	263	Y	N	N	– / –	– / –	Roto Sil	619591
			200	263	N	N	N	1 / –	E / –	Roto Sil	2040171
	801 – 1000	890	200	413	Y	N	N	– / –	– / –	Roto Sil	774233
			200	413	Y	N	N	1 / –	E / –	Roto Sil	619592
	1001 – 1200	1090	200	513	Y	N	N	– / –	– / –	Roto Sil	891693
			200	513	Y	N	N	1 / –	E / –	Roto Sil	619593
	1201 – 1400	1290	200	563	Y	N	N	– / –	– / –	Roto Sil	891694
			200	563	Y	N	N	1 / –	E / –	Roto Sil	619594
	1401 – 1600	1490	200	563	Y	N	N	– / –	– / –	Roto Sil	891700
			200	563	Y	N	N	2 / –	E / –	Roto Sil	619595
	1601 – 1800	1690	200	563	Y	N	N	– / –	– / –	Roto Sil	891701
			200	563	Y	N	N	2 / –	E / –	Roto Sil	619596
			200	1000	Y	Y	N	– / –	– / –	Roto Sil	891702
			200	1000	Y	Y	N	2 / –	E / –	Roto Sil	838345
	1801 – 2000	1890	200	1000	Y	Y	N	– / –	– / –	Roto Sil	891703
			200	1000	Y	Y	N	2 / –	E / –	Roto Sil	794637
	2001 – 2200	2090	200	1000	Y	Y	N	– / –	– / –	Roto Sil	891704
			200	1000	Y	Y	N	2 / –	E / –	Roto Sil	795280
			200	1000	Y	Y	N	3 / –	E / –	Roto Sil	794638
	2201 – 2400	2290	200	1000	Y	Y	N	– / –	– / –	Roto Sil	891705
			200	1000	Y	Y	N	2 / –	E / –	Roto Sil	795282
			200	1000	Y	Y	N	3 / –	E / –	Roto Sil	794639



INFO
A centre lock is required from SRH 2401 mm.

4.1.2.3 Fixed handle height – security



											
15	601 – 800	690	200	263	Y	N	N	– / –	– / –	Roto Sil	619591
	801 – 1000	890	200	413	Y	N	N	1 / –	V / –	Roto Sil	2040170
	1001 – 1200	1090	200	513	Y	N	N	1 / –	V / –	Roto Sil	626543
	1201 – 1400	1290	200	563	Y	N	N	1 / –	V / –	Roto Sil	626544
	1401 – 1600	1490	200	563	Y	N	N	2 / –	V / –	Roto Sil	626575
	1601 – 1800	1690	200	563	Y	N	N	2 / –	V / –	Roto Sil	626576
			200	1000	Y	Y	N	2 / –	V / –	Roto Sil	838324
	1801 – 2000	1890	200	1000	Y	Y	N	2 / –	V / –	Roto Sil	794641
	2001 – 2200	2090	200	1000	Y	Y	N	3 / –	V / –	Roto Sil	794642
2201 – 2400	2290	200	1000	Y	Y	N	3 / –	V / –	Roto Sil	794643	



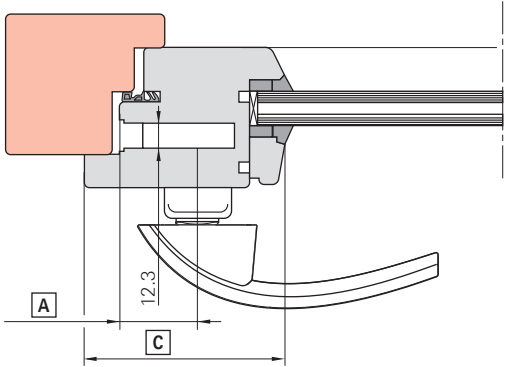
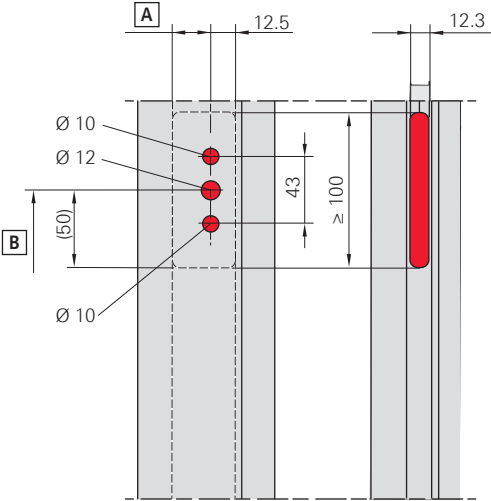
INFO
A centre lock is required from SRH 2401 mm.



4.1.3 Backset 25, 30, 35, 40, 45, 50 mm

4.1.3.1 Drilling and routing pattern

Not lockable



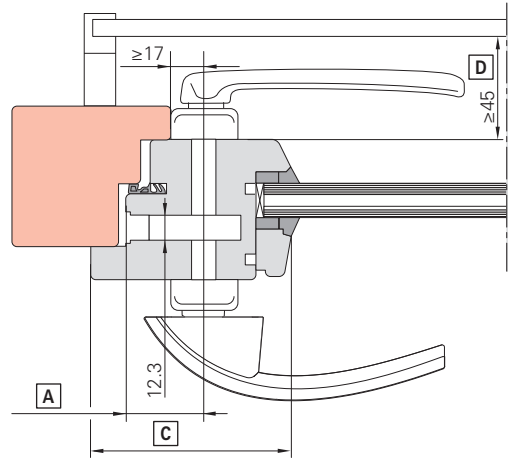
Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	77 mm	25 mm
	82 mm	30 mm
	87 mm	35 mm
	92 mm	40 mm
	97 mm	45 mm
	102 mm	50 mm



INFO

Cross section: windows and doors (inward opening).

Backset 25, 30, 35, 40, 45, 50 mm

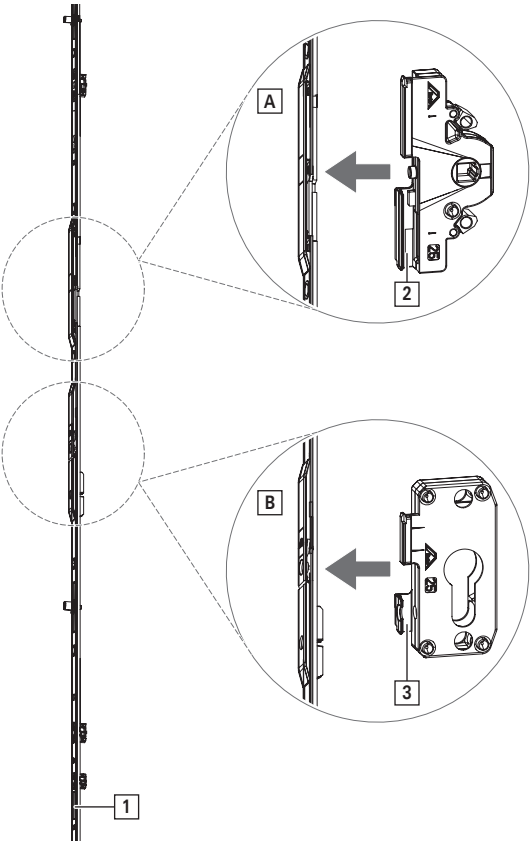


Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	82 mm	25 mm
	87 mm	30 mm
	92 mm	35 mm
	97 mm	40 mm
	102 mm	45 mm
	107 mm	50 mm
[D]	On roller shutters	-





4.1.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – fixed handle height → <i>from page 456</i>
[2]	Gearbox → <i>from page 458</i>
[3]	Lock casing – profile cylinder → <i>from page 458</i> Lock casing – round cylinder (not sh.) → <i>from page 458</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate
<i>i</i> INFO Lock casing requires an espagnolette faceplate with product feature  bullet catch “J”.	

Espagnolettes

T&T espagnolette, VT – fixed handle height

Backset 25, 30, 35, 40, 45, 50 mm

4.1.3.3 Espagnolette faceplate – fixed handle height



											
Basic security	511 – 710	600	200	170	Y	N	–	–	Roto Sil	788286	
	601 – 800	690	200	263	Y	N	–	–	Roto Sil	788302	
	801 – 1000	890	200	413	Y	N	1	E	Roto Sil	788303	
	1001 – 1200	1090	200	513	Y	N	1	E	Roto Sil	788304	
	1201 – 1400	1290	200	563	Y	N	1	E	Roto Sil	788305	
	1401 – 1600	1490	200	563	Y	N	2	E	Roto Sil	788306	
	1601 – 1800	1690	200	563	Y	N	2	E	Roto Sil	788307	
			200	1000	Y	Y	2	E	Roto Sil	788308	
	1801 – 2000	1890	200	1000	Y	Y	2	E	Roto Sil	788309	
	2001 – 2200	2090	200	1000	Y	Y	3	E	Roto Sil	788310	
2201 – 2400	2290	200	1000	Y	Y	3	E	Roto Sil	788311		
Security	801 – 1000	890	200	413	Y	N	1	V	Roto Sil	795284	
	1001 – 1200	1090	200	513	Y	N	1	V	Roto Sil	795285	
	1201 – 1400	1290	200	563	Y	N	1	V	Roto Sil	795286	
	1401 – 1600	1490	200	563	Y	N	2	V	Roto Sil	795287	
	1601 – 1800	1690	200	563	Y	N	2	V	Roto Sil	795288	
			200	1000	Y	Y	2	V	Roto Sil	788312	
	1801 – 2000	1890	200	1000	Y	Y	2	V	Roto Sil	788313	
	2001 – 2200	2090	200	1000	Y	Y	3	V	Roto Sil	788314	
2201 – 2400	2290	200	1000	Y	Y	3	V	Roto Sil	788315		

For compatible gearboxes, see → *from page 458*.

For compatible lock casings, see → *from page 458*.



INFO

Lock casing requires an espagnolette faceplate with product feature bullet catch “Y”.



INFO

A centre lock is required from SRH 2401 mm.



4.1.3.4 Espagnolette faceplate – fixed handle height, second opening sash



							Nº
801 – 1000	890	200	413	N	1	Roto Sil	2027942
1001 – 1200	1090	200	513	N	1	Roto Sil	2027943
1201 – 1400	1290	200	563	N	1	Roto Sil	2044743
1401 – 1600	1490	200	563	N	2	Roto Sil	2027970
1601 – 1800	1690	200	563	N	2	Roto Sil	2042225
		200	1000	Y	2	Roto Sil	2027971
1801 – 2000	1890	200	1000	Y	2	Roto Sil	2027972
2001 – 2200	2090	200	1000	Y	3	Roto Sil	2027973
2201 – 2400	2290	200	1000	Y	3	Roto Sil	2027974

For compatible gearboxes, see → *from page 458*.



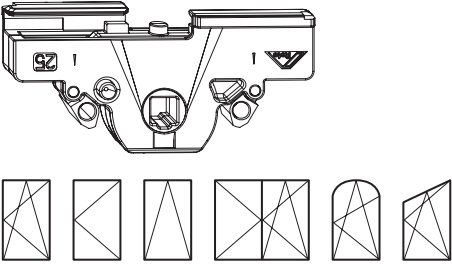
INFO
A centre lock is required from SRH 2401 mm.



INFO
Stop for lifting mishandling device is integrated.



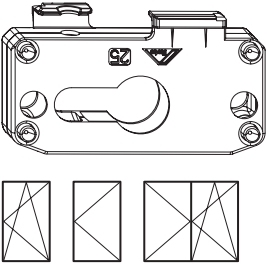
4.1.3.5 Gearbox



		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679
45	Roto Sil	787680
50	Roto Sil	787681

4.1.3.6 Lock casing

Profile cylinders



		Nº
25	Roto Sil	787656
30	Roto Sil	787658
35	Roto Sil	787659
40	Roto Sil	787660
45	Roto Sil	787661
50	Roto Sil	787663

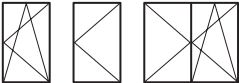
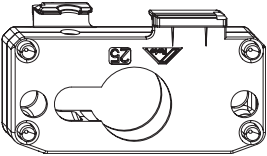
Espagnolettes

T&T espagnolette, VT – fixed handle height

Backset 25, 30, 35, 40, 45, 50 mm



Round cylinders



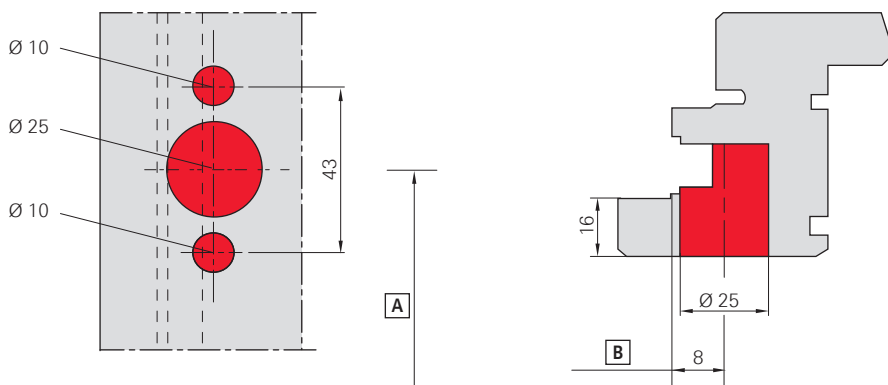
		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279



4.2 T&T espagnolette – centred / variable handle height

4.2.1 Backset 8 mm

4.2.1.1 Drilling and routing pattern



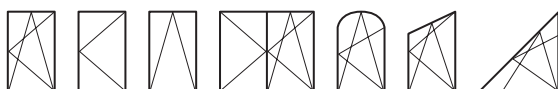
Assignment	Meaning
[A]	Handle height
[B]	Backset



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M5 x ... DIN EN ISO 7046.

4.2.1.2 Centred / variable handle height



											
8	380 – 620	500	70 / 70	190 – 260	N	N	–	–	Roto Sil	259764	
	621 – 1020	800	200 / 200	311 – 510	Y	N	1	E	Roto Sil	840794	
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	E	Roto Sil	623646	
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	E	Roto Sil	259768	
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	E	Roto Sil	795374	
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	4	E	Roto Sil	795376	

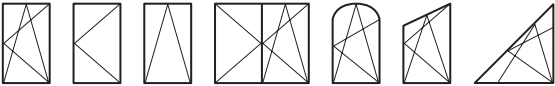


INFO

A centre lock is required from SRH 2401 mm.



4.2.1.3 Centred / variable handle height – security



										
8	621 – 1020	800	200 / 200	311 – 510	Y	N	1	V	Roto Sil	840812
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	V	Roto Sil	502075
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	V	Roto Sil	502076
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	V	Roto Sil	795375
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	4	V	Roto Sil	795377

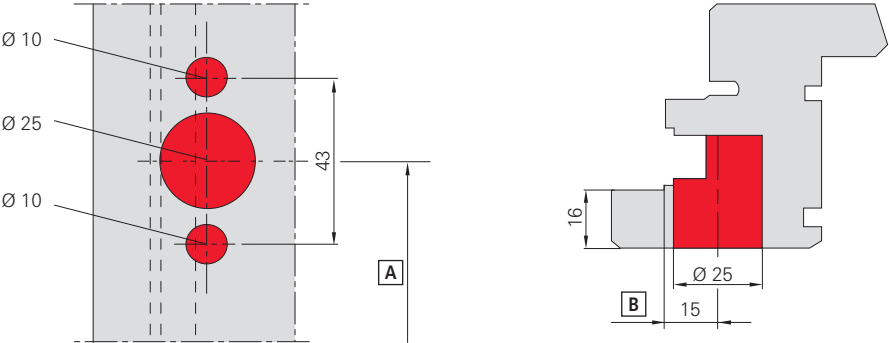


INFO

A centre lock is required from SRH 2401 mm.

4.2.2 Backset 15 mm

4.2.2.1 Drilling and routing pattern



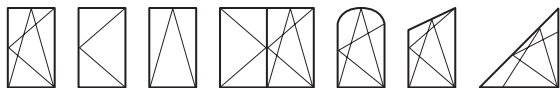
Assignment	Meaning
[A]	Handle height
[B]	Backset



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M5 x ... DIN EN ISO 7046.

4.2.2.2 Centred / variable handle height



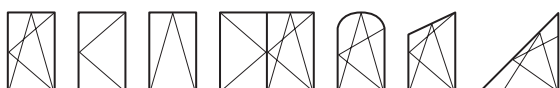
15	310 – 620	430	100 / 100	310 – 155	N	N	–	–	Roto Sil	259717	
	310 – 850	630	200 / 200	155 – 425	N	N	–	–	Roto Sil	742202	
	621 – 800	580	90 / 90	311 – 400	Y	N	–	–	Roto Sil	289862	
	621 – 800		90 / 90	311 – 400	Y	N	1	E	Roto Sil	259719	
	801 – 1200	980	200 / 200	401 – 600	Y	N	–	–	Roto Sil	289863	
	801 – 1200		200 / 200	401 – 600	Y	N	1	E	Roto Sil	259720	
	1001 – 1400	1180	200 / 200	501 – 700	Y	N	2	E	Roto Sil	796459	
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	–	–	Roto Sil	289864	
	1201 – 1600		200 / 200	601 – 800	Y	N	2	E	Roto Sil	259721	
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	–	–	Roto Sil	289865	
	1601 – 2000		200 / 200	801 – 1000	Y	Y	2	E	Roto Sil	795389	
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	–	–	Roto Sil	289866	
	2001 – 2400		200 / 200	1001 – 1200	Y	Y	4	E	Roto Sil	795392	



INFO

A centre lock is required from SRH 2401 mm.

4.2.2.3 Centred / variable handle height – security



15	310 – 620	430	100 / 100	310 – 155	N	N	–	–	Roto Sil	259717
	621 – 800	580	90 / 90	311 – 400	Y	N	1	V	Roto Sil	355743
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	V	Roto Sil	355744
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	V	Roto Sil	355745
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	V	Roto Sil	795390
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	4	V	Roto Sil	795393



INFO

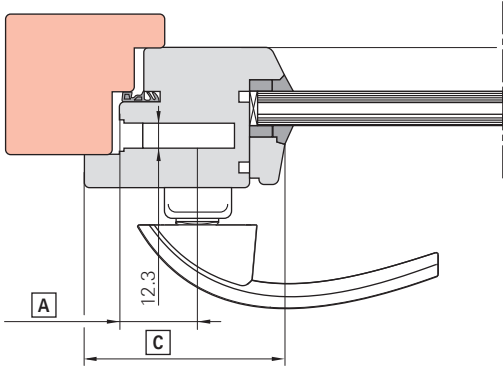
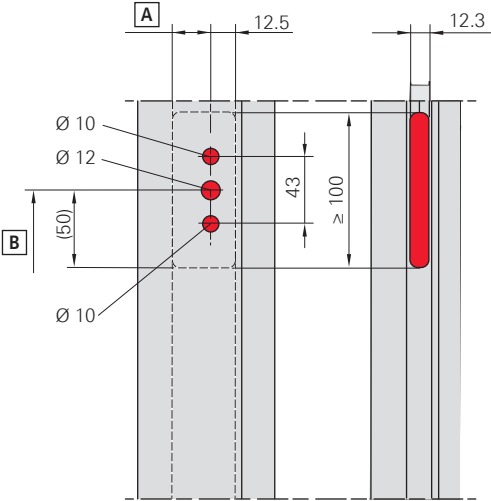
A centre lock is required from SRH 2401 mm.



4.2.3 Backset 25, 30, 35, 40, 45, 50 mm

4.2.3.1 Drilling and routing pattern

Not lockable



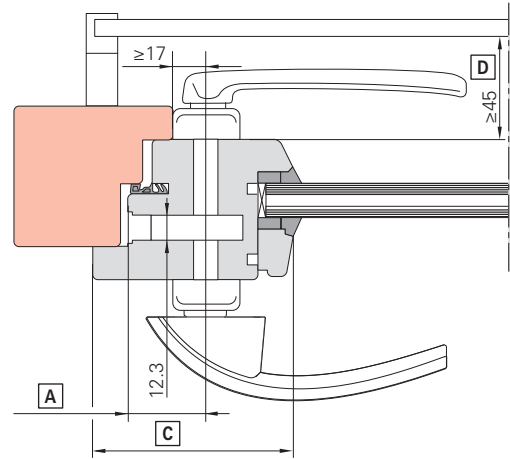
Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	77 mm	25 mm
	82 mm	30 mm
	87 mm	35 mm
	92 mm	40 mm
	97 mm	45 mm
	102 mm	50 mm



INFO

Cross section: windows and doors (inward opening).

Backset 25, 30, 35, 40, 45, 50 mm

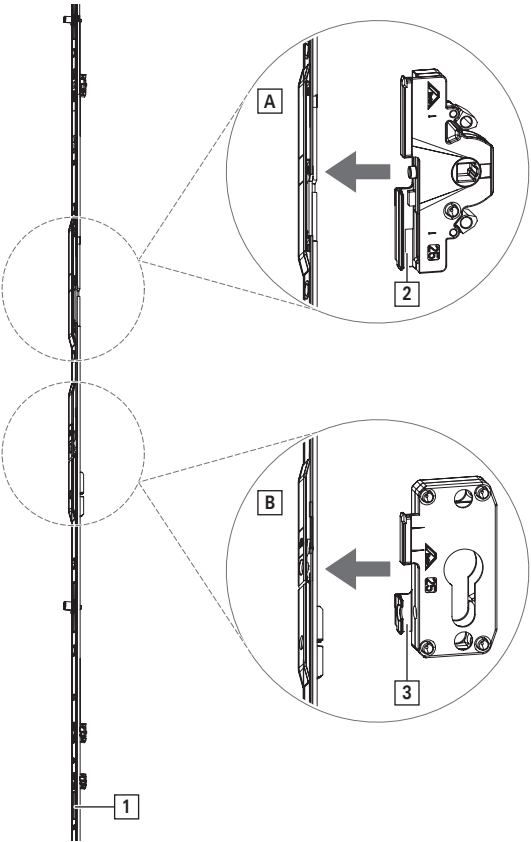


Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	82 mm	25 mm
	87 mm	30 mm
	92 mm	35 mm
	97 mm	40 mm
	102 mm	45 mm
	107 mm	50 mm
[D]	On roller shutters	-



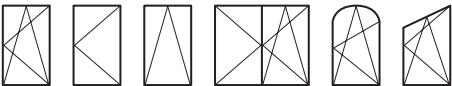


4.2.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 465</i>
[2]	Gearbox → <i>from page 467</i>
[3]	Lock casing – profile cylinder → <i>from page 467</i> Lock casing – round cylinder (not sh.) → <i>from page 467</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate
i INFO Lock casing requires an espagnolette faceplate with product feature  bullet catch “J”.	

4.2.3.3 Espagnolette faceplate – centred / variable handle height



										
Basic security	430 – 920	700	200 / 200	215 – 460	N	N	–	–	Roto Sil	840759
	621 – 800	580	90 / 90	311 – 400	Y	N	1	E	Roto Sil	788318
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	E	Roto Sil	788320
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	E	Roto Sil	788322
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	E	Roto Sil	788324
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	4	E	Roto Sil	788326

Espagnolettes

T&T espagnolette – centred / variable handle height

Backset 25, 30, 35, 40, 45, 50 mm

										Nº
Security	621 – 800	580	90 / 90	311 – 400	Y	N	1	V	Roto Sil	833746
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	V	Roto Sil	833747
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	V	Roto Sil	833748
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	V	Roto Sil	795365
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	4	V	Roto Sil	795367

For compatible gearboxes, see → *from page 467*.

For compatible lock casings, see → *from page 467*.



INFO

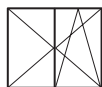
Lock casing requires an espagnolette faceplate with product feature  bullet catch “Y”.



INFO

A centre lock is required from SRH 2401 mm.

4.2.3.4 Espagnolette faceplate – centred / variable handle height, second opening sash



							Nº
801 – 1200	980	200 / 200	401 – 600	N	1	Roto Sil	788319
1201 – 1600	1380	200 / 200	601 – 800	N	2	Roto Sil	788321
1601 – 2000	1780	200 / 200	801 – 1000	Y	2	Roto Sil	788323
2001 – 2400	2180	200 / 200	1001 – 1200	Y	4	Roto Sil	788325

For compatible gearboxes, see → *from page 467*.



INFO

A centre lock is required from SRH 2401 mm.

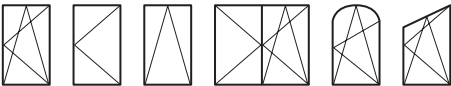
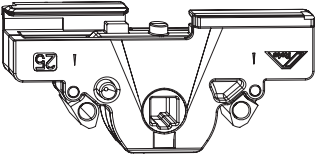


INFO

Stop for lifting mishandling device is integrated.



4.2.3.5 Gearbox

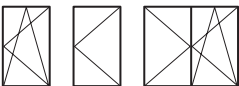
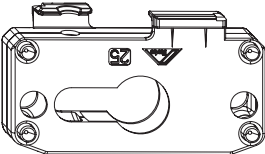


		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679
45	Roto Sil	787680
50	Roto Sil	787681



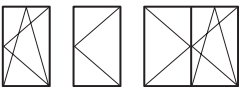
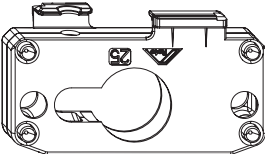
4.2.3.6 Lock casing

Profile cylinder



		Nº
25	Roto Sil	787656
30	Roto Sil	787658
35	Roto Sil	787659
40	Roto Sil	787660
45	Roto Sil	787661
50	Roto Sil	787663

Round cylinder



		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276

Espagnolettes

T&T espagnolette – centred / variable handle height

Backset 25, 30, 35, 40, 45, 50 mm

		Nº
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279



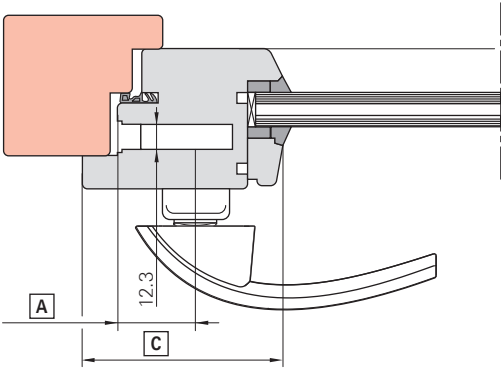
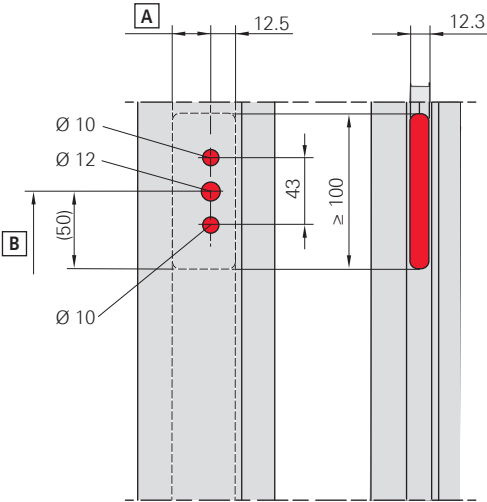


4.3 T&T espagnolettes – Special solutions

4.3.1 T&T adaptable espagnolette

4.3.1.1 Drilling and routing pattern

Not lockable

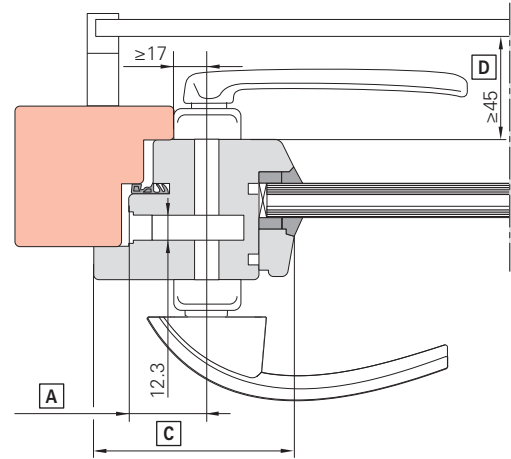


Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	77 mm	25 mm
	82 mm	30 mm
	87 mm	35 mm
	92 mm	40 mm
	97 mm	45 mm
	102 mm	50 mm



INFO

Cross section: windows and doors (inward opening).

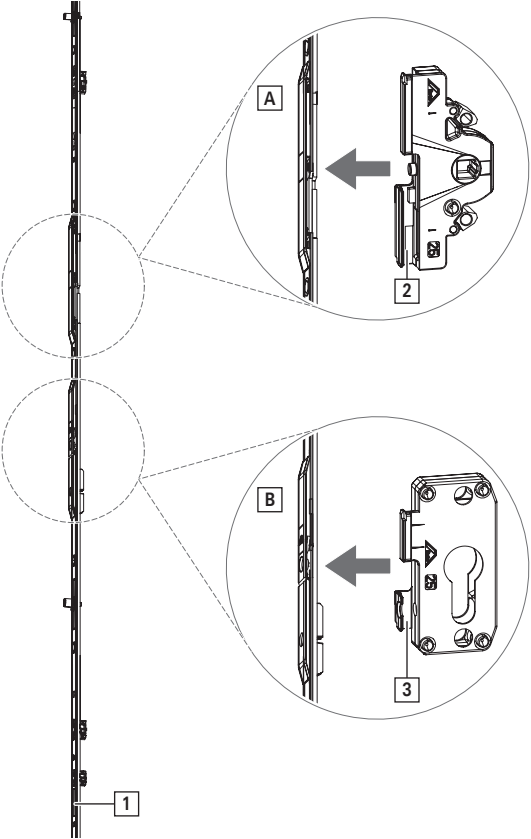


Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	82 mm	25 mm
	87 mm	30 mm
	92 mm	35 mm
	97 mm	40 mm
	102 mm	45 mm
	107 mm	50 mm
[D]	On roller shutters	-



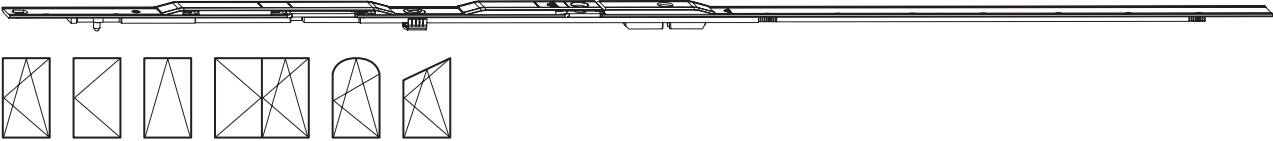


4.3.1.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 471</i>
[2]	Gearbox → <i>from page 472</i>
[3]	Lock casing – profile cylinder → <i>from page 472</i> Lock casing – round cylinder (not sh.) → <i>from page 472</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate

4.3.1.3 Espagnolette faceplate – centred / variable handle height



Basic security	690 – 2400	680	200	Y	Roto Sil	Nº 799011

For compatible gearboxes, see → *from page 472*.

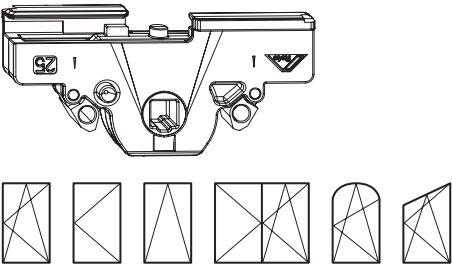
For compatible lock casings, see → *from page 472*.



INFO

In conjunction with
Centre lock, couplable: see → *from page 570*.
Espagnolette centre lock: see → *from page 573*.

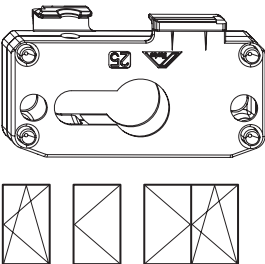
4.3.1.4 Gearbox



		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679
45	Roto Sil	787680
50	Roto Sil	787681

4.3.1.5 Lock casing

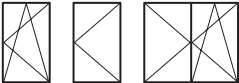
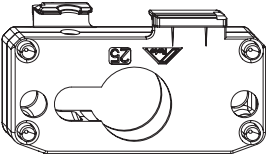
Profile cylinders



		Nº
25	Roto Sil	787656
30	Roto Sil	787658
35	Roto Sil	787659
40	Roto Sil	787660
45	Roto Sil	787661
50	Roto Sil	787663



Round cylinders

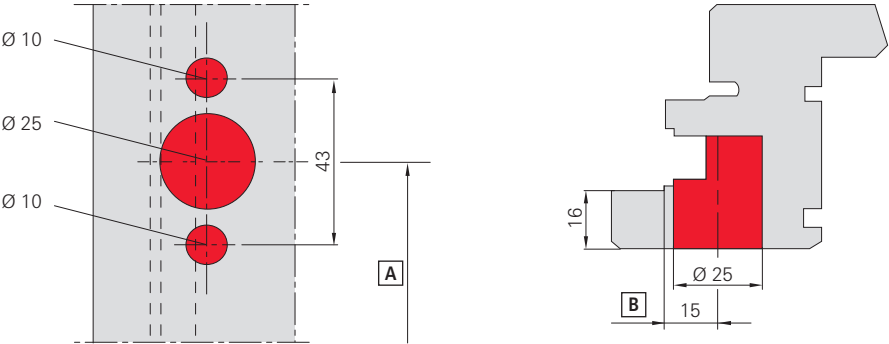


			Nº
	25	Roto Sil	788164
	30	Roto Sil	788275
	35	Roto Sil	788276
	40	Roto Sil	788277
	45	Roto Sil	788278
	50	Roto Sil	788279



4.3.2 T&T espagnolette – comfort

4.3.2.1 Drilling and routing pattern

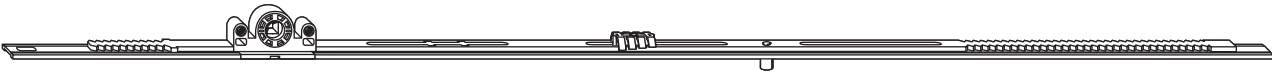


Assignment	Meaning
[A]	Handle height
[B]	Backset



INFO
Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M5 x ... DIN EN ISO 7046.

4.3.2.2 Backset 15 mm



							Nº
15	520 – 700	490	180	–	–	Roto Sil	307029
	701 – 900	690	200	1	E	Roto Sil	307030
			200	1	V	Roto Sil	309399

For the compatible run-up block with mishandling device, see → *from page 667*.



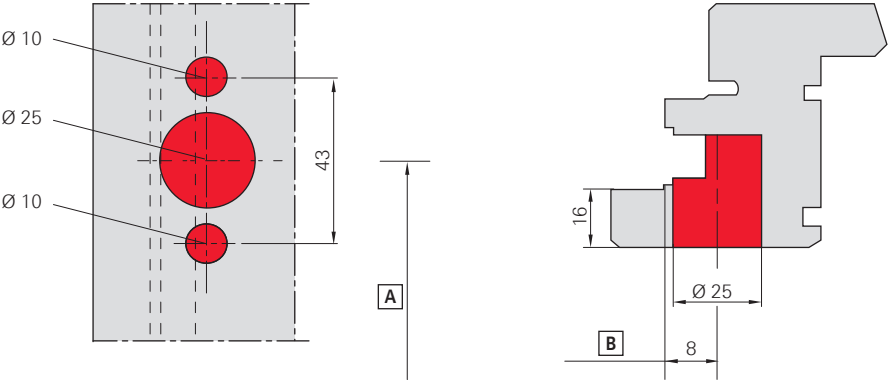
INFO
Between SRH 901 – 1400 mm with espagnolette extension.



4.4 Turn-Only/Tilt-Only espagnolette

4.4.1 Backset 8 mm

4.4.1.1 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.

4.4.1.2 Fixed handle height



												Nº
8	400 – 500	500	100	170	–	N	N	2	P	Roto Sil	609213	
	501 – 600	600	100	170	–	N	N	2	P	Roto Sil	609214	
	601 – 700	700	100	263	371	N	N	2	P	Roto Sil	609235	
	701 – 800	800	100	263	371	N	N	2	P	Roto Sil	609236	
	801 – 900	900	100	413	180	N	N	2	P	Roto Sil	609237	
			100	413	180	N	N	3	P	Roto Sil	609238	
	901 – 1000	1000	100	413	180	N	N	2	P	Roto Sil	609239	
			100	413	180	N	N	3	P	Roto Sil	609240	
	1001 – 1100	1100	100	513	180	N	N	3	P	Roto Sil	609241	
	1101 – 1200	1200	100	513	815	N	N	3	P	Roto Sil	609242	
	1201 – 1300	1300	100	563	815	N	N	3	P	Roto Sil	609243	
	1301 – 1400	1400	100	563	815	N	N	3	P	Roto Sil	609244	
	1401 – 1500	1500	100	563	815	N	N	3	P	Roto Sil	609245	
	1501 – 1600	1600	100	563	815	N	N	3	P	Roto Sil	609246	
	1601 – 1700	1700	100	563	815	N	N	3	P	Roto Sil	609247	
	1701 – 1850	1850	100	563	815	N	N	4	P	Roto Sil	609248	
	1851 – 2050	2050	100	1000	815	N	Y	4	P	Roto Sil	795439	
	2051 – 2250	2250	100	1000	815	N	Y	4	P	Roto Sil	795440	



INFO

For espagnolettes with a 170 mm handle height, it is not possible to connect a corner drive at the bottom.

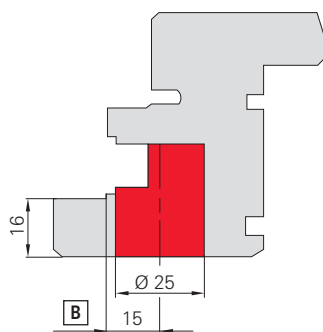
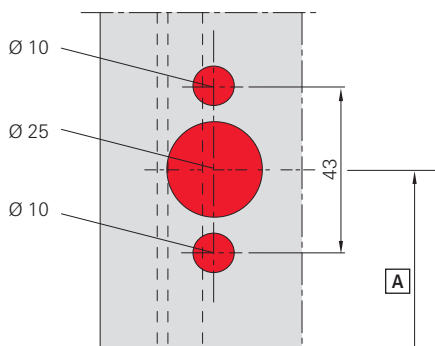
4.4.1.3 Centred / variable handle height



											Nº
8	238 – 390	238	0 / 0	88 – 119	N	N	1	E	Roto Sil	260136	
	391 – 500	500	55 / 55	125 – 250	N	N	1	E	Roto Sil	260137	
	501 – 800	800	150 / 150	251 – 400	N	N	2	E	Roto Sil	260138	
	801 – 1100	1100	150 / 150	401 – 550	N	N	3	E	Roto Sil	260139	
	1101 – 1400	1400	150 / 150	551 – 700	N	N	3	E	Roto Sil	260140	
	1401 – 1800	1800	200 / 200	701 – 900	N	Y	4	E	Roto Sil	795425	
	1801 – 2400	2400	300 / 300	901 – 1200	N	Y	4	E	Roto Sil	795427	

4.4.2 Backset 15 mm

4.4.2.1 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.



4.4.2.2 Fixed handle height



											Nº
15	400 – 500	500	100	170	–	N	N	2	E	Roto Sil	600789
			100	170	–	N	N	2	P	Roto Sil	487230
	501 – 600	600	100	170	308	N	N	2	E	Roto Sil	600790
			100	170	308	N	N	2	P	Roto Sil	487231
	601 – 700	700	100	263	371	N	N	2	E	Roto Sil	600791
			100	263	371	N	N	2	P	Roto Sil	487232
	701 – 800	800	100	263	371	N	N	2	E	Roto Sil	600792
			100	263	371	N	N	2	P	Roto Sil	487233
	801 – 900	900	100	413	180	N	N	2	E	Roto Sil	600793
			100	413	180	N	N	2	P	Roto Sil	487234
			100	413	180	N	N	3	P	Roto Sil	487245
	901 – 1000	1000	100	413	180	N	N	2	E	Roto Sil	600794
			100	413	180	N	N	2	P	Roto Sil	487246
			100	413	180	N	N	3	P	Roto Sil	487247
	1001 – 1100	1100	100	513	180	N	N	3	E	Roto Sil	600815
			100	513	180	N	N	3	P	Roto Sil	487248
	1101 – 1200	1200	100	513	815	N	N	3	E	Roto Sil	600816
			100	513	815	N	N	3	P	Roto Sil	487249
	1201 – 1300	1300	100	563	815	N	N	3	E	Roto Sil	600817
			100	563	815	N	N	3	P	Roto Sil	487250
	1301 – 1400	1400	100	563	815	N	N	3	E	Roto Sil	600818
			100	563	815	N	N	3	P	Roto Sil	487251
	1401 – 1500	1500	100	563	815	N	N	3	E	Roto Sil	600819
			100	563	815	N	N	3	P	Roto Sil	487252
	1501 – 1600	1600	100	563	815	N	N	3	E	Roto Sil	600820
			100	563	815	N	N	3	P	Roto Sil	487253
	1601 – 1700	1700	100	563	815	N	N	3	E	Roto Sil	600821
			100	563	815	N	N	3	P	Roto Sil	487254
	1701 – 1850	1850	100	563	815	N	N	4	E	Roto Sil	600822
			100	563	815	N	N	4	P	Roto Sil	487255
	1851 – 2050	2050	100	1000	815	N	Y	4	P	Roto Sil	795436
	2051 – 2250	2250	100	1000	815	N	Y	4	P	Roto Sil	795438

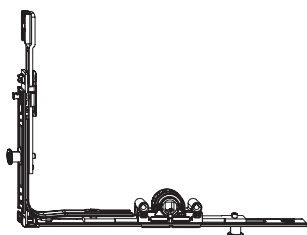


4.4.2.3 Centred / variable handle height



											
	15	180 – 250	180	0 / 0	90 – 125	N	N	1	E	Roto Sil	260129
				0 / 0	90 – 125	N	N	1	P	Roto Sil	288093
	251 – 500	500	500	125 / 125	126 – 250	N	N	1	E	Roto Sil	260130
				125 / 125	126 – 250	N	N	1	P	Roto Sil	288094
	501 – 800	800	800	150 / 150	251 – 400	N	N	2	E	Roto Sil	260131
				150 / 150	251 – 400	N	N	2	P	Roto Sil	288095
	801 – 1100	1100	1100	150 / 150	401 – 550	N	N	3	E	Roto Sil	260132
				150 / 150	401 – 550	N	N	3	P	Roto Sil	288096
	1101 – 1400	1400	1400	150 / 150	551 – 700	N	N	3	E	Roto Sil	260133
				150 / 150	551 – 700	N	N	3	P	Roto Sil	288097
	1401 – 1800	1800	1800	200 / 200	701 – 900	N	Y	4	E	Roto Sil	795413
				200 / 200	701 – 900	N	Y	4	P	Roto Sil	795414
	1801 – 2400	2400	2400	300 / 300	901 – 1200	N	Y	4	E	Roto Sil	795415
				300 / 300	901 – 1200	N	Y	4	P	Roto Sil	795416

4.4.2.4 Handle position at the bottom

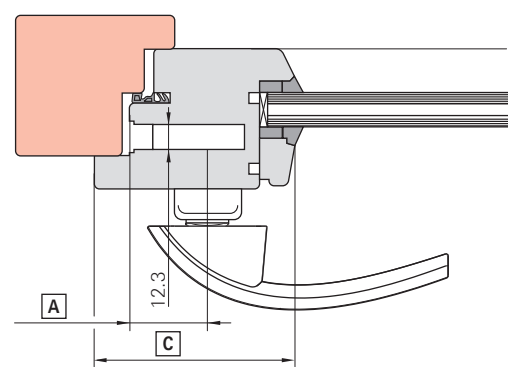
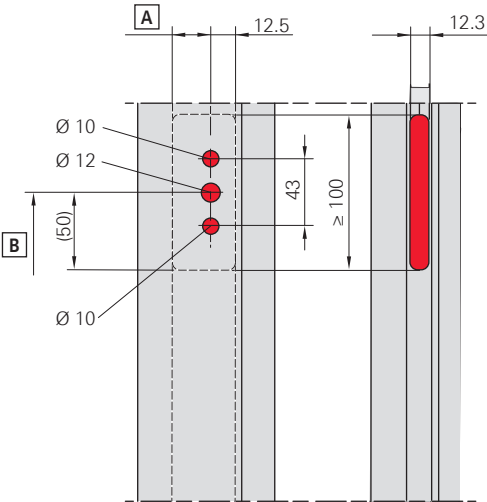


											
15	230 – 800	230	0 / 0	120	N	N	Y	1 / 1	P / P	Roto Sil	610176



4.4.3 Backset 25, 30, 35, 40, 45, 50 mm

4.4.3.1 Drilling and routing pattern



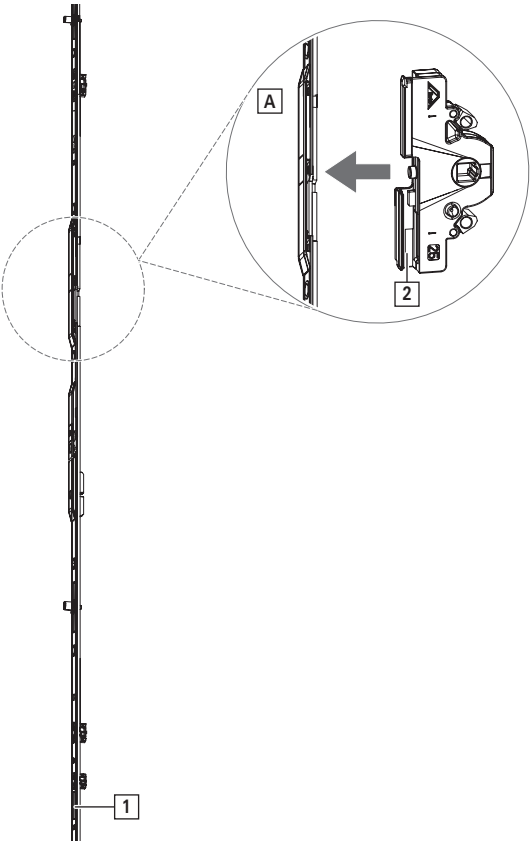
Assignment	Meaning	Backset
[A]	Backset	-
[B]	Handle height	-
[C]	77 mm	25 mm
	82 mm	30 mm
	87 mm	35 mm
	92 mm	40 mm
	97 mm	45 mm
	102 mm	50 mm



INFO

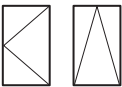
Cross section: windows and doors (outward opening).

4.4.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 480</i>
[2]	Gearbox → <i>from page 481</i>
[A]	Gearbox which can be installed in the espagnolette faceplate

4.4.3.3 Espagnolette faceplate – centred / variable handle height

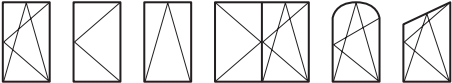
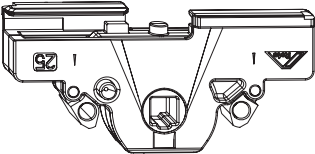


										Nº
Basic security	350 – 500	500	75 / 75	175 – 250	N	N	1	E	Roto Sil	788328
	501 – 800	800	150 / 150	251 – 400	N	N	2	E	Roto Sil	788329
	801 – 1100	1100	150 / 150	401 – 550	N	N	3	E	Roto Sil	788330
	1101 – 1400	1400	150 / 150	551 – 700	N	N	3	E	Roto Sil	788331
	1401 – 1800	1800	200 / 200	701 – 900	N	N	4	E	Roto Sil	788332
	1801 – 2400	2400	300 / 300	901 – 1200	N	N	4	E	Roto Sil	788333
Security	1401 – 1800	1800	200 / 200	701 – 900	N	N	4	P	Roto Sil	795398
	1801 – 2400	2400	300 / 300	901 – 1200	N	N	4	P	Roto Sil	795399

For compatible gearboxes, see → *from page 481*.



4.4.3.4 Gearbox



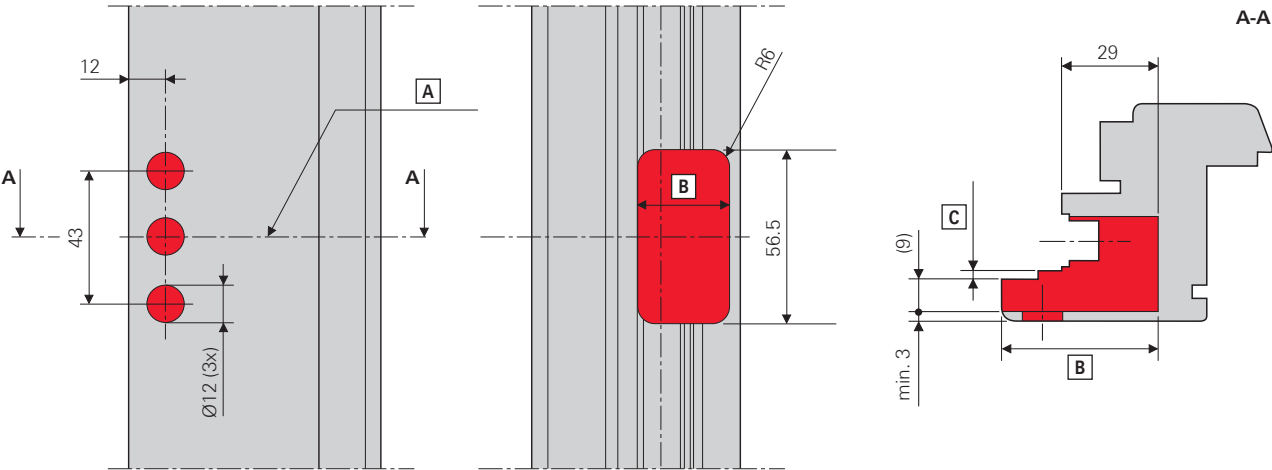
		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679
45	Roto Sil	787680
50	Roto Sil	787681



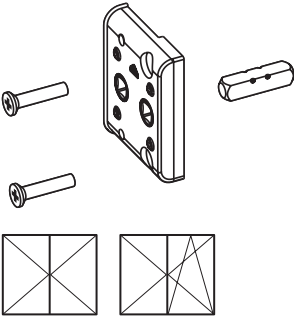
4.5 T-O backset espagnolette

4.5.1 Timber backset espagnolette adapter

Drilling and routing pattern



Meaning [A]		Routing dimensions [B]	Distance dimensions [C]
Sash	Handle centre	56.5 x 26.0 mm	–
		56.5 x 28.5 mm	3 mm
		56.5 x 29.5 mm	4 mm
		56.5 x 30.5 mm	5 mm
		56.5 x 31.5 mm	6 mm
		56.5 x 32.5 mm	7 mm
		56.5 x 33.5 mm	8 mm



				Nº
12/18-9	□ 27 / 6.0 – bag no. 1	15	Roto Sil	317307
	□ 30 / 8.0 – bag no. 2	15	Roto Sil	317309
12/18-9 Euronut 7/8	□ 20 / 3.5 – bag no. 9	8	Roto Sil	337797
	□ 20 / 3.5 – bag no. 3	15	Roto Sil	325085
12/20-13	□ 27 / 6.0 – bag no. 4	15	Roto Sil	495997
4/15-9	□ 20 / 3.5 – bag no. 5	15	Roto Sil	381899
	□ 27 / 6.0 – bag no. 6	15	Roto Sil	365354
12/18-13	□ 27 / 6.0 – bag no. 8	15	Roto Sil	770902
	□ 33 / 8.0 – bag no. 10	15	Roto Sil	607774

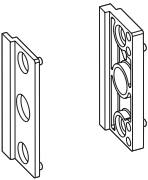


INFO

The backset espagnolette adapter can be combined with all espagnolettes. For supported backsets, see technical feature “Backset  ”.



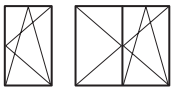
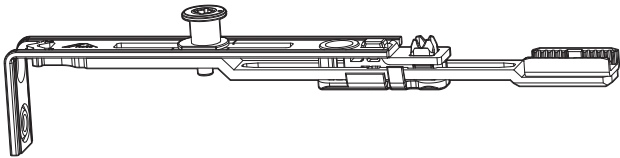
Bag	Contents
No. 1	1x intermediate gearbox 1x square spindle 27 / 6.0 mm 2x screws M5 x 25 mm
No. 2	1x intermediate gearbox 1x square spindle 30 / 8.0 mm 2x screws M5 x 25 mm
No. 3	1x intermediate gearbox 1x square spindle 20 / 3.5 mm 2x screws M5 x 20 mm
No. 4	1x intermediate gearbox 1x square spindle 27 / 6.0 mm 2x screws M5 x 25 mm 1x cover cap 1x spacer plate 2 mm 1x spacer plate 4 mm
No. 5	1x intermediate gearbox 1x square spindle 20 / 3.5 mm 2x screws M5 x 20 mm
No. 6	1x intermediate gearbox 1x square spindle 27 / 6.0 mm 2x screws M5 x 25 mm
No. 7	1x intermediate gearbox 1x square spindle 27 / 6.0 mm 2x screws M5 x 25 mm 1x cover cap
No. 8	1x intermediate gearbox 1x square spindle 27 / 6.0 mm 2x screws M5 x 30 mm 1x spacer plate 10.5 mm
No. 9	1x intermediate gearbox 1x square spindle 20 / 3.5 mm 2x screws M5 x 20 mm
No. 10	1x intermediate gearbox 1x square spindle 33 / 8.0 mm 2x screws M5 x 30 mm 1x spacer plate 12.0 mm



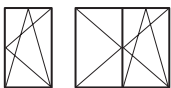
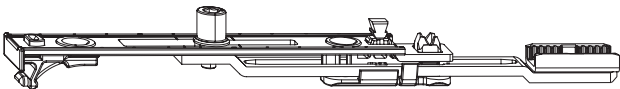
	Nº
Spacer plate, 2 mm	317310
Spacer plate, 4 mm	317311
Spacer plate, 5 mm	317312
Spacer plate, 7 mm – overlap gasket	317324

4.6 Espagnolette connector

4.6.1 VT

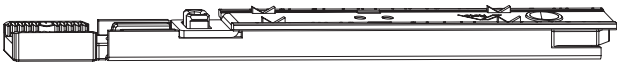


					Nº
VT espagnolette connector with protrusion	110	1	P	Roto Sil	628290

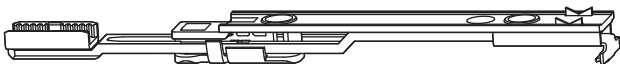


					Nº
VT espagnolette connector without protrusion	110	1	E	Roto Sil	794225

4.6.2 Protrusion



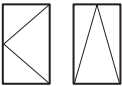
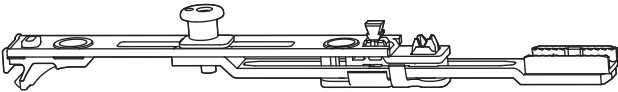
					Nº
Espagnolette connector with bolt extension and reverse-action travel	110	11		Roto Sil	312032
	110	18		Roto Sil	312033



					Nº
Espagnolette connector with bolt extension, without reverse-action travel	110	11		Roto Sil	457626
	110	14		Roto Sil	349187



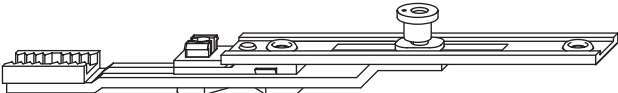
4.6.3 Tilt-Only sash



				Nº
Tilt-Only sash espagnolette connector	1	V	Roto Sil	382716

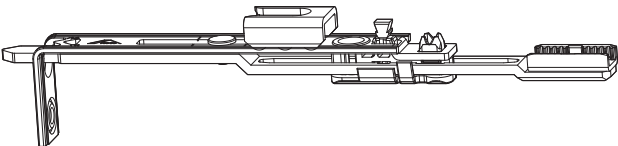


4.6.4 Arched window



				Nº
Espagnolette connector for arched windows	1	E	Roto Sil	245688
	1	V	Roto Sil	245687

4.6.5 Floating-mullion sash

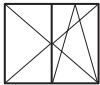
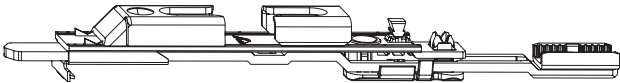


					Nº
Floating-mullion sash espagnolette connector for VT espagnolette connector with protrusion	110	11	1	Roto Sil	628701



INFO
Can only be used in combination with standard floating-mullion sash espagnolette.

Espagnolettes
Espagnolette connector
Euro-groove 7/8

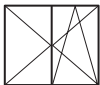
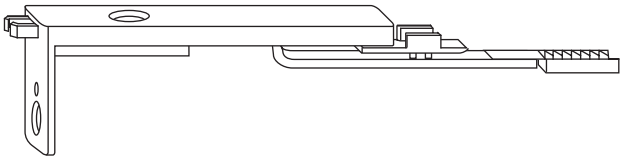


 Floating-mullion sash espagnolette connector for VT espagnolette connector without pro- trusion	 110	 11	 1	 Roto Sil	 630573
	110	18	1	Roto Sil	630572



INFO
Can only be used in combination with standard floating-mullion sash espagnolette.

4.6.6 Euro-groove 7/8



 Espagnolette connector, Euro-groove 7 / 8	 11	 Roto Sil	 331973



4.7 Espagnolette extension

4.7.1 Euro-groove 7/8



			Nº
Espagnolette extension 200	–	Roto Sil	493592
Espagnolette extension 400	1	Roto Sil	315599

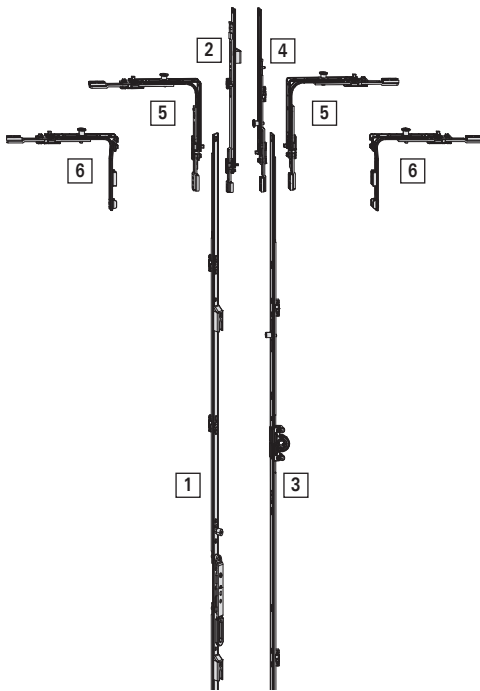


4.8 Floating-mullion sash espagnolette

4.8.1 Standard

4.8.1.1 VT – fixed handle height

4.8.1.1.1 Possible combinations



Assignment	Meaning
[1]	Lever-operated espagnolette Standard, VT
[2]	Floating-mullion centre lock
[3]	T&T espagnolette, VT – fixed handle height
[4]	Centre lock, standard
[5]	Corner drive, standard
[6]	Special corner drive, short

Determining the espagnolettes

1. Determine the element's sash rebate height (SRH).



INFO

Refer to the tables below for possible combinations and the required corner drive [5] + [6].

2. Select the lever-operated espagnolette Standard, VT [1] using the *sash rebate height (SRH)* and *length of the component*.

Optional: determine the floating-mullion centre lock [2]. → *from page 574*

3. Select the T&T espagnolette, VT – fixed handle height [3] using the *length of the component*.

- ☐ T&T espagnolette, VT – fixed handle height, backset 8 mm → *from page 448*
- ☐ T&T espagnolette, VT – fixed handle height, backset 15 mm → *from page 448*
- ☐ T&T espagnolette, VT – fixed handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 448*

Optional: determine the centre lock, standard [4] → *from page 570*.



Backset 8 mm

Application range		Lever-operated espagnolette, standard VT		T&T espagnolette, VT			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 510	600	233	Special corner drive, short → <i>from page 509</i>	490	120	N	Corner drive, standard → <i>from page 508</i>
511 – 600			Corner drive, standard → <i>from page 508</i>	600	170	N	Corner drive, standard → <i>from page 508</i>
601 – 800	690	325	Corner drive, standard → <i>from page 508</i>	690	263	N	Corner drive, standard → <i>from page 508</i>
801 – 1000	890	335	Corner drive, standard → <i>from page 508</i>	890	413	Y	Corner drive, standard → <i>from page 508</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 508</i>	1090	513	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 508</i>	1290	563	Y	Corner drive, standard → <i>from page 508</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 508</i>	1490	563	Y	Corner drive, standard → <i>from page 508</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 508</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 508</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 508</i>	1890	1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 508</i>	2090	1000	Y	Corner drive, standard → <i>from page 508</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 508</i>	2290	1000	Y	Corner drive, standard → <i>from page 508</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

Application range		Lever-operated espagnolette Standard, VT		T&T espagnolette, VT			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
280 – 370	445	156	Special corner drive, short → <i>from page 509</i>	460	120	N	Special corner drive, short → <i>from page 509</i>
371 – 555			Corner drive, standard → <i>from page 508</i>	460	120	N	Corner drive, standard → <i>from page 508</i>
431 – 510	600	195	Special corner drive, short → <i>from page 509</i>	460	120	N	Corner drive, standard → <i>from page 508</i>
511 – 600			Corner drive, standard → <i>from page 508</i>	600	170	Y	Corner drive, standard → <i>from page 508</i>
601 – 800	690	300	Corner drive, standard → <i>from page 508</i>	690	263	Y	Corner drive, standard → <i>from page 508</i>
801 – 1000	890	490	Corner drive, standard → <i>from page 508</i>	890	413	Y	Corner drive, standard → <i>from page 508</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 508</i>	1090	513	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 508</i>	1290	563	Y	Corner drive, standard → <i>from page 508</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 508</i>	1490	563	Y	Corner drive, standard → <i>from page 508</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 508</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 508</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 508</i>	1890	1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 508</i>	2090	1000	Y	Corner drive, standard → <i>from page 508</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 508</i>	2290	1000	Y	Corner drive, standard → <i>from page 508</i>



INFO

A centre lock is required from SRH 2401 mm.

4.8.1.1.2 Backset 8 to 50 mm



												
8	431 – 710	600	200	233	N	N	–	Y	– / 1	– / P	Roto Sil	810974
	601 – 800	690	200	325	N	N	–	N	–	–	Roto Sil	771953
	801 – 1000	890	200	335	N	N	1	N	–	–	Roto Sil	771954
15 25 30 35 40 45 50	280 – 555	445	200	156	N	N	–	Y	– / 1	– / P	Roto Sil	2003815
	431 – 710	600	200	195	Y	N	–	Y	– / 1	– / P	Roto Sil	795462
	601 – 800	690	200	300	Y	N	–	N	–	–	Roto Sil	763116
	801 – 1000	890	200	490	Y	N	1	N	–	–	Roto Sil	763117
8 15 25 30 35 40 45 50	1001 – 1200	1090	200	335	Y	N	1	N	–	–	Roto Sil	763118
	1201 – 1400	1290	200	335	Y	N	1	N	–	–	Roto Sil	763119
	1401 – 1600	1490	200	335	Y	N	2	N	–	–	Roto Sil	763120
	1601 – 1800	1690	200	335	Y	Y	2	N	–	–	Roto Sil	795474
	1801 – 2000	1890	200	640	Y	Y	2	N	–	–	Roto Sil	795476
	2001 – 2200	2090	200	640	Y	Y	3	N	–	–	Roto Sil	795478
	2201 – 2400	2290	200	640	Y	Y	3	N	–	–	Roto Sil	795480



INFO

Lifting mishandling device (stop for floating-mullion sash espagnolette) preassembled as standard.



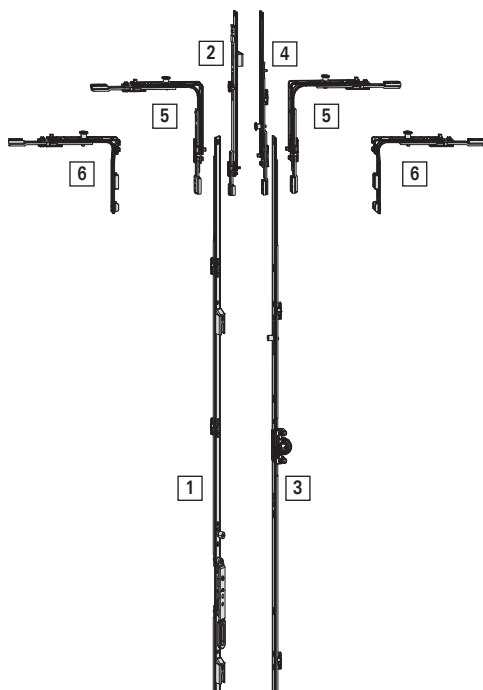
INFO

When using the lever-operated espagnolette, standard (RC 1 N, RC 2, RC 2 N), fit the stay guide for Turn-Only sashes → *from page 525*



4.8.1.2 Centred / variable handle height

4.8.1.2.1 Possible combinations



Assignment	Meaning
[1]	Lever-operated espagnolette, standard
[2]	Floating-mullion centre lock
[3]	T&T espagnolette – centred / variable handle height
[4]	Centre lock, standard
[5]	Corner drive, standard
[6]	Special corner drive, short

Determining the espagnolettes

1. Determine the element's sash rebate height (SRH).



INFO

Refer to the tables below for possible combinations and the required corner drive [5] + [6].

2. Select the lever-operated espagnolette, standard [1] using the *sash rebate height (SRH)* and *length of the component*.

Optional: determine the floating-mullion centre lock [2]. → *from page 574*

3. Select the T&T espagnolette – centred / variable handle height [3] using the *length of the component*.

- ☐ T&T espagnolette – centred / variable handle height, backset 8 mm → *from page 460*
- ☐ T&T espagnolette – centred / variable handle height, backset 15 mm → *from page 460*
- ☐ T&T espagnolette – centred / variable handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 460*

Optional: determine the centre lock, standard [4]. → *from page 570*

Espagnolettes
Floating-mullion sash espagnolette
Standard

Backset 8 mm

Application range		Lever-operated espagnolette, standard		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
621 – 800	680	235 – 275	Special corner drive, short → <i>from page 509</i>	800	311 – 510	N	Corner drive, standard → <i>from page 508</i>
801 – 900		276 – 335	Corner drive, standard → <i>from page 508</i>	980	351 – 400	N	Corner drive, standard → <i>from page 508</i>
901 – 1200	980	249 – 448	Corner drive, standard → <i>from page 508</i>		401 – 600	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1600	1380	448 – 658	Corner drive, standard → <i>from page 508</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 508</i>
1601 – 2000	1780	680 – 880	Corner drive, standard → <i>from page 508</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2400	2180	880 – 1080	Corner drive, standard → <i>from page 508</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 508</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

Application range		Lever-operated espagnolette, standard		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
370 – 450	400	255 – 265	Special corner drive, short → <i>from page 509</i>	430	215 – 225	N	Special corner drive, short → <i>from page 509</i>
451 – 520		266 – 300	Special corner drive, short → <i>from page 509</i>		226 – 260	N	Corner drive, standard → <i>from page 508</i>
521 – 620		301 – 350	Corner drive, standard → <i>from page 508</i>		261 – 310	N	Corner drive, standard → <i>from page 508</i>
621 – 650	680	393 – 407	Special corner drive, short → <i>from page 509</i>	580	311 – 400	Y	Corner drive, standard → <i>from page 508</i>
651 – 800		408 – 482	Corner drive, standard → <i>from page 508</i>				
801 – 1200	980	482 – 682	Corner drive, standard → <i>from page 508</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1600	1380	448 – 648	Corner drive, standard → <i>from page 508</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 508</i>
1601 – 2000	1780	680 – 880	Corner drive, standard → <i>from page 508</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2400	2180	880 – 1080	Corner drive, standard → <i>from page 508</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 508</i>

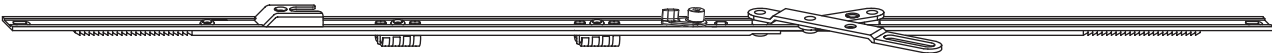


INFO

A centre lock is required from SRH 2401 mm.



4.8.1.2.2 Backset 8 to 50 mm



8	621 – 900	680	125 / 120	236 – 375	N	N	1	Roto Sil	242726
	901 – 1200	980	200 / 200	298 – 448	Y	N	1	Roto Sil	791986
15	431 – 620	500	100 / 100	225 – 350	N	N	–	Roto Sil	233418
25	621 – 800	630	100 / 100	393 – 482	Y	N	1	Roto Sil	763125
30									
35	801 – 1200	980	200 / 200	482 – 682	Y	N	1	Roto Sil	763126
40									
45									
50									
8	1201 – 1600	1380	200 / 200	448 – 658	Y	N	2	Roto Sil	763127
15	1601 – 2000	1780	200 / 200	680 – 880	Y	Y	2	Roto Sil	795482
25									
30	2001 – 2400	2180	200 / 200	880 – 1080	Y	Y	4	Roto Sil	795484
35									
40									
45									
50									



INFO

A retainer clasp is mandatory for lever-operated espagnolettes on RC 2 / RC 2 N double-sashed windows.
 See → *from page 662*.



INFO

Lifting mishandling device (stop for floating-mullion sash espagnolette) preassembled as standard.



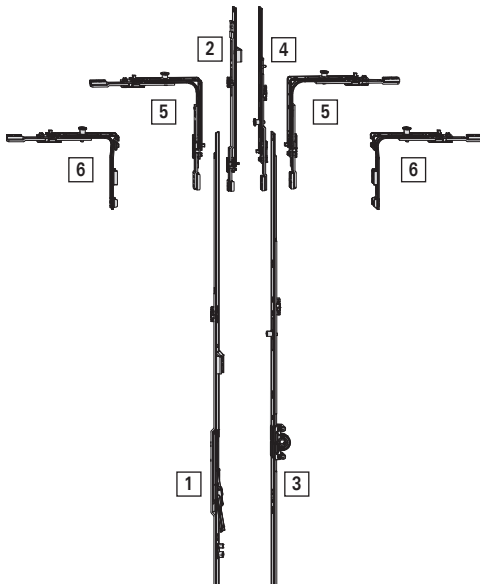
INFO

When using the lever-operated espagnolette, standard (RC 1 N, RC 2, RC 2 N), fit the stay guide for Turn-Only sashes → *from page 525*

4.8.2 Plus

4.8.2.1 VT – fixed handle height

4.8.2.1.1 Possible combinations



Assignment	Meaning
[1]	Lever-operated espagnolette Plus, VT
[2]	Floating-mullion centre lock
[3]	T&T espagnolette, VT – fixed handle height
[4]	Centre lock, standard
[5]	Corner drive, standard
[6]	Special corner drive, short

Determining the espagnolettes

1. Determine the element's sash rebate height (SRH).



INFO

Refer to the tables below for possible combinations and the required corner drive [5] + [6].

2. Select the lever-operated espagnolette Plus, VT [1] using the *sash rebate height (SRH)* and *length of the component*.

Optional: determine the floating-mullion centre lock [2]. → *from page 574*

3. Select the T&T espagnolette, VT – fixed handle height [3] using the *length of the component*.

- ☐ T&T espagnolette, VT – fixed handle height, backset 8 mm → *from page 448*
- ☐ T&T espagnolette, VT – fixed handle height, backset 15 mm → *from page 448*
- ☐ T&T espagnolette, VT – fixed handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 448*

Optional: determine the centre lock, standard [4]. → *from page 570*



Backset 8 mm

Application range SRH	Lever-operated espagnolette Plus, VT			T&T espagnolette, VT			
	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 510	600	233	Special corner drive, short → <i>from page 509</i>	490	120	N	Corner drive, standard → <i>from page 508</i>
511 – 600			Corner drive, standard → <i>from page 508</i>	600	170	N	Corner drive, standard → <i>from page 508</i>
601 – 800	690	325	Corner drive, standard → <i>from page 508</i>	690	263	N	Corner drive, standard → <i>from page 508</i>
801 – 1000	890	335	Corner drive, standard → <i>from page 508</i>	890	413	Y	Corner drive, standard → <i>from page 508</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 508</i>	1090	513	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 508</i>	1290	563	Y	Corner drive, standard → <i>from page 508</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 508</i>	1490	563	Y	Corner drive, standard → <i>from page 508</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 508</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 508</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 508</i>	1890	1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 508</i>	2090	1000	Y	Corner drive, standard → <i>from page 508</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 508</i>	2290	1000	Y	Corner drive, standard → <i>from page 508</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

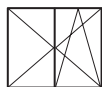
Application range SRH	Lever-operated espagnolette Plus, VT			T&T espagnolette, VT			
	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 510	600	195	Special corner drive, short → <i>from page 509</i>	460	120	N	Corner drive, standard → <i>from page 508</i>
511 – 600			Corner drive, standard → <i>from page 508</i>	600	170	Y	Corner drive, standard → <i>from page 508</i>
601 – 800	690	300	Corner drive, standard → <i>from page 508</i>	690	263	Y	Corner drive, standard → <i>from page 508</i>
801 – 1000	890	490	Corner drive, standard → <i>from page 508</i>	890	413	Y	Corner drive, standard → <i>from page 508</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 508</i>	1090	513	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 508</i>	1290	563	Y	Corner drive, standard → <i>from page 508</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 508</i>	1490	563	Y	Corner drive, standard → <i>from page 508</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 508</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 508</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 508</i>	1890	1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 508</i>	2090	1000	Y	Corner drive, standard → <i>from page 508</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 508</i>	2290	1000	Y	Corner drive, standard → <i>from page 508</i>



INFO

A centre lock is required from SRH 2401 mm.

4.8.2.1.2 Backset 8 to 50 mm



												Nº
8	431 – 710	600	200	144	Y	N	–	Y	– / 1	– / P	Roto Sil	2007106
15	601 – 800	690	200	234	Y	N	–	–	–	–	Roto Sil	2007116
25	801 – 1000	890	200	396	Y	N	1	–	–	–	Roto Sil	2007117
30	1001 – 1200	1090	200	496	Y	N	1	–	–	–	Roto Sil	2007118
35	1201 – 1400	1290	200	546	Y	N	1	–	–	–	Roto Sil	2007119
40	1401 – 1600	1490	200	546	Y	N	2	–	–	–	Roto Sil	2007120
45	1601 – 1800	1690	200	546	Y	Y	2	–	–	–	Roto Sil	2007121
50	1801 – 2000	1890	200	546	Y	Y	2	–	–	–	Roto Sil	2007122
	2001 – 2200	2090	200	546	Y	Y	3	–	–	–	Roto Sil	2007123
	2201 – 2400	2290	200	546	Y	Y	3	–	–	–	Roto Sil	2007124



INFO

Lifting mishandling device (stop for floating-mullion sash espagnolette) preassembled as standard.



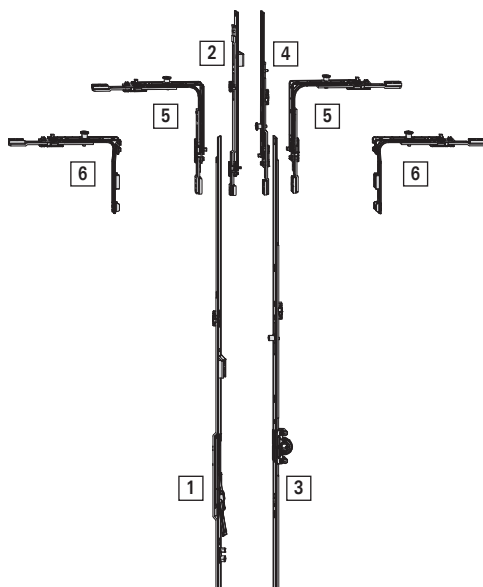
INFO

When using the lever-operated espagnolette Plus (RC 1 N, RC 2, RC 2 N), fit the basic security stay guide (Tilt&Turn) or security stay guide (Tilt&Turn) → *from page 524*



4.8.2.2 Centred / variable handle height

4.8.2.2.1 Possible combinations



Assignment	Meaning
[1]	Lever-operated espagnolette Plus
[2]	Floating-mullion centre lock
[3]	T&T espagnolette – centred / variable handle height
[4]	Centre lock, standard
[5]	Corner drive, standard
[6]	Special corner drive, short

Determining the espagnolettes

1. Determine the element's sash rebate height (SRH).



INFO

Refer to the tables below for possible combinations and the required corner drive [5] + [6].

2. Select the lever-operated espagnolette Plus [1] using the *sash rebate height (SRH)* and *length of the component*.

Optional: determine the floating-mullion centre lock [2]. → *from page 574*

3. Select the T&T espagnolette – centred / variable handle height [3] using the *length of the component*.

- ☐ T&T espagnolette – centred / variable handle height, backset 8 mm → *from page 460*
- ☐ T&T espagnolette – centred / variable handle height, backset 15 mm → *from page 460*
- ☐ T&T espagnolette – centred / variable handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 460*

Optional: determine the centre lock, standard [4]. → *from page 570*

Espagnolettes
Floating-mullion sash espagnolette
Plus

Backset 8 mm

Application range		Lever-operated espagnolette Plus		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 520	400	194 – 239	Special corner drive, short → <i>from page 509</i>	500	215 – 260	N	Special corner drive, short → <i>from page 509</i>
521 – 620		240 – 289	Corner drive, standard → <i>from page 508</i>		261 – 310	N	Corner drive, standard → <i>from page 508</i>
621 – 720	680	290 – 329	Special corner drive, short → <i>from page 509</i>	800	311 – 510	Y	Corner drive, standard → <i>from page 508</i>
721 – 800		330 – 379	Corner drive, standard → <i>from page 508</i>				
801 – 1200	980	380 – 579	Corner drive, standard → <i>from page 508</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1600	1380	580 – 779	Corner drive, standard → <i>from page 508</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 508</i>
1601 – 2000	1780	780 – 979	Corner drive, standard → <i>from page 508</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2400	2180	980 – 1179	Corner drive, standard → <i>from page 508</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 508</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

Application range		Lever-operated espagnolette Plus		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
420 – 450	400	194 – 204	Special corner drive, short → <i>from page 509</i>	430	215 – 225	N	Special corner drive, short → <i>from page 509</i>
451 – 520		205 – 239	Special corner drive, short → <i>from page 509</i>		226 – 260	N	Corner drive, standard → <i>from page 508</i>
521 – 620		240 – 289	Corner drive, standard → <i>from page 508</i>		261 – 310	N	Corner drive, standard → <i>from page 508</i>
621 – 700	680	290 – 329	Special corner drive, short → <i>from page 509</i>	580	311 – 400	Y	Corner drive, standard → <i>from page 508</i>
701 – 800		330 – 379	Corner drive, standard → <i>from page 508</i>				
801 – 1200	980	380 – 579	Corner drive, standard → <i>from page 508</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 508</i>
1201 – 1600	1380	580 – 779	Corner drive, standard → <i>from page 508</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 508</i>
1601 – 2000	1780	780 – 979	Corner drive, standard → <i>from page 508</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 508</i>
2001 – 2400	2180	980 – 1179	Corner drive, standard → <i>from page 508</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 508</i>

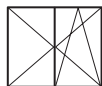


INFO

A centre lock is required from SRH 2401 mm.



4.8.2.2.2 Backset 8 to 50 mm



									Nº
8	431 – 620	400	100 / 100	194 – 289	N	N	–	Roto Sil	2007128
15	621 – 800	680	100 / 100	290 – 379	Y	N	1	Roto Sil	2007129
25	801 – 1200	980	200 / 200	380 – 579	Y	N	1	Roto Sil	2007130
30									
35	1001 – 1400	1180	200 / 200	480 – 679	Y	N	1	Roto Sil	2007131
40	1201 – 1600	1380	200 / 200	580 – 779	Y	N	2	Roto Sil	2007132
45	1601 – 2000	1780	200 / 200	780 – 979	Y	Y	2	Roto Sil	2007133
50	2001 – 2400	2180	200 / 200	980 – 1179	Y	Y	4	Roto Sil	2007134



INFO

Lifting mishandling device (stop for floating-mullion sash espagnolette) preassembled as standard.



INFO

When using the lever-operated espagnolette Plus (RC 1 N, RC 2, RC 2 N), fit the basic security stay guide (Tilt&Turn) or security stay guide (Tilt&Turn) → *from page 524*

4.8.3 Euro-groove 7/8

4.8.3.1 Fixed handle height



									Nº
15	431 – 630	520	200	195	Y	N	–	Roto Sil	839919
25	601 – 800	690	200	335	Y	N	–	Roto Sil	331943
30	801 – 1000	890	200	490	Y	N	–	Roto Sil	331964
35									
40									
45									
50									
8	1001 – 1200	1090	200	335	Y	N	1	Roto Sil	331965
15	1201 – 1400	1290	200	335	Y	N	1	Roto Sil	331966
25	1401 – 1600	1490	200	335	Y	N	1	Roto Sil	331967
30	1601 – 1800	1690	200	335	Y	Y	2	Roto Sil	331968
35	1801 – 2000	1890	200	640	Y	Y	2	Roto Sil	331969
40	2001 – 2200	2090	200	640	Y	Y	2	Roto Sil	331970
45	2201 – 2400	2290	200	640	Y	Y	2	Roto Sil	331971
50									



INFO

An espagnolette connector for Euro-groove 7/8 is required for every lever-operated espagnolette. See → *from page 486*.

Espagnolettes

Floating-mullion sash espagnolette

Euro-groove 7/8



INFO

The standard bullet catch cannot be used.





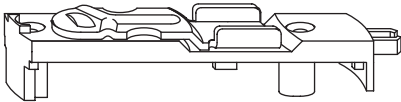
4.9 Shootbolt

4.9.1 Opposite hardware groove

4.9.1.1 Standard

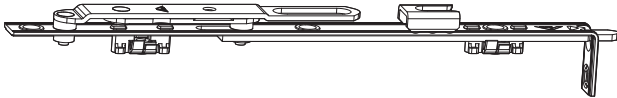


		Nº
200	Roto Sil	633419
390	Roto Sil	618666



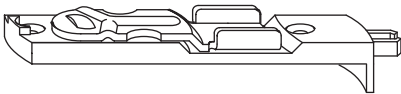
		Nº
97	Roto Sil	305638

4.9.1.2 VT

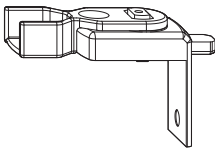


		Nº
265	Roto Sil	628710

4.9.2 Euro-rebate

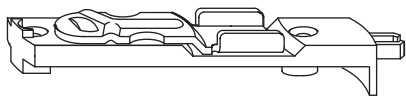


				Nº
97	18	12	Roto Sil	260189



					Nº
48	18	12	Vertical tilting	Roto Sil	631381

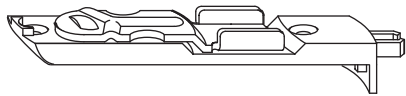
4.9.3 Euro-groove 7/8



				Nº
97	20	12	Roto Sil	313518

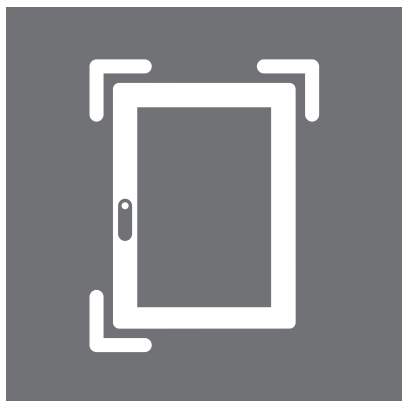


4.9.4 Can be routed in



				Nº
97	18	12	Roto Sil	344969









Standard

See page	508
----------	-----

Short

See page	509
----------	-----

Floating mullion

Standard	510
Threshold	510

Threshold

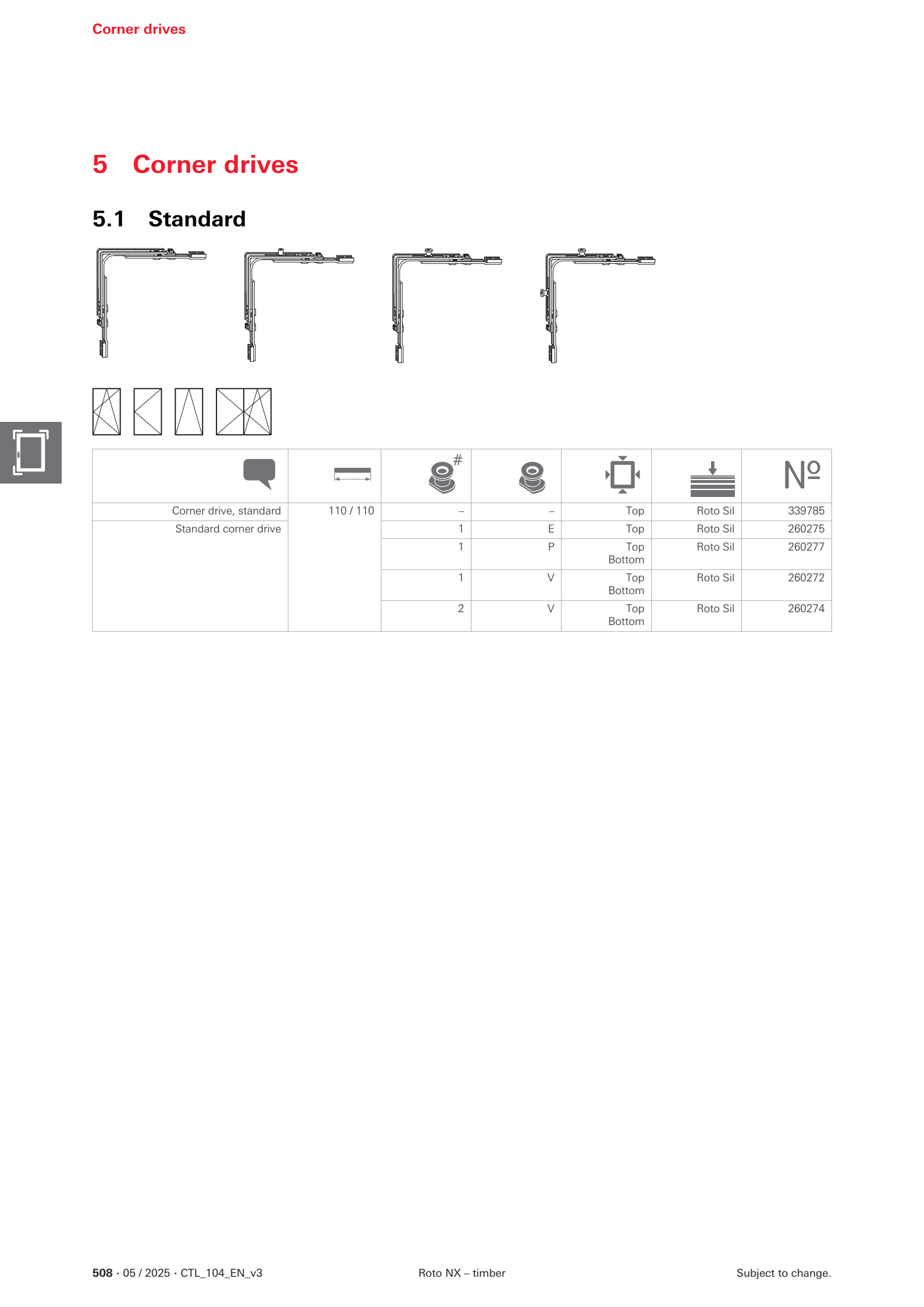
See page	511
----------	-----

Sash stay

Sash stay	512
Royal	512

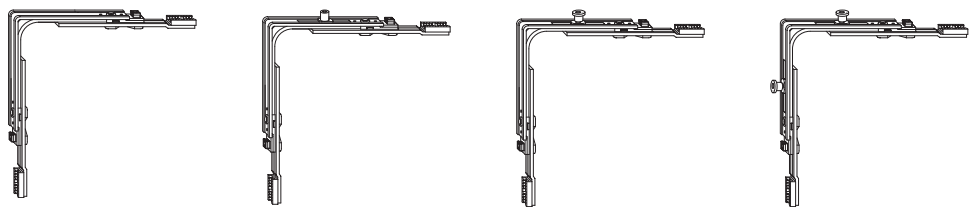
Special solutions

Arched window	513
Pitched window	513
Night vent	514
Backset espagnolette and reverse-action espagnolette	514
Striker and protrusion	515



5 Corner drives

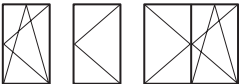
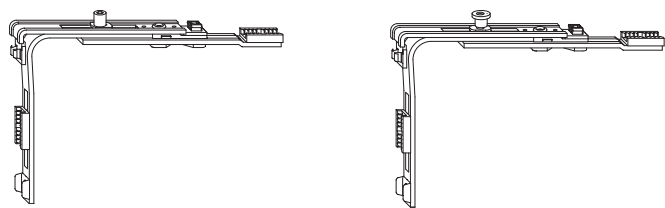
5.1 Standard



						Nº
Corner drive, standard	110 / 110	–	–	Top	Roto Sil	339785
Standard corner drive		1	E	Top	Roto Sil	260275
		1	P	Top Bottom	Roto Sil	260277
		1	V	Top Bottom	Roto Sil	260272
		2	V	Top Bottom	Roto Sil	260274



5.2 Short

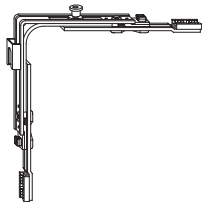


						Nº
Special short corner drive	110 / 10	1	E	Top	Roto Sil	260280
		1	P	Top Bottom	Roto Sil	260282
		1	V	Top Bottom	Roto Sil	281288



5.3 Floating mullion

5.3.1 Standard



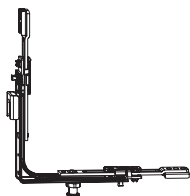
								Nº
Floating mullion corner drive	110 / 110	Second opening sash	1	1	V	Top	Roto Sil	313538
			1	1	V	Bottom	Roto Sil	367227
		Second opening sash / slide guard	1	1	V	Top	Roto Sil	839223
			1	1	V	Bottom	Roto Sil	839224



INFO

Corner drives with integrated slide guard can only be used with the lever-operated espagnolette Plus.

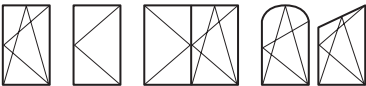
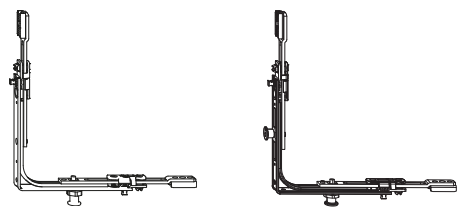
5.3.2 Threshold



									Nº
Floating mullion corner drive	110 / 110	Second opening sash / welded-on striker	7	1	1	V	Bottom	Roto Sil	823316
			10	1	1	V	Bottom	Roto Sil	794779
		Second opening sash / built-in slide guard	7	1	1	V	Bottom	Roto Sil	858513
		Second opening sash / welded-on striker	10	1	1	V	Bottom	Roto Sil	858515



5.4 Threshold



							
Threshold corner drive	110 / 110	Corner drive, standard; locking cam, extended	7	1	V	Roto Sil	642264
			7	2	V	Roto Sil	823317
			10	1	V	Roto Sil	614456
			10	2	V	Roto Sil	794778



INFO
 Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.

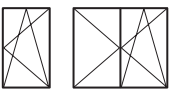
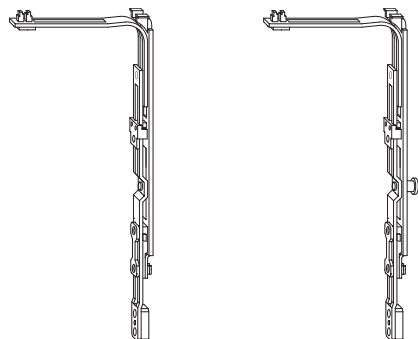


IMO 347



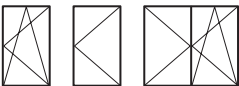
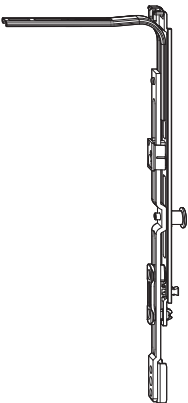
5.5 Sash stay

5.5.1 Sash stay



					Nº
Sash stay corner drive	180 / 0	–	–	Roto Sil	293521
		1	P	Roto Sil	260286
		1	V	Roto Sil	260284

5.5.2 Royal



						Nº
Sash stay corner drive Royal 250	180 / 0	1	P	360 – 800 mm	Roto Sil	617126
		1	V	360 – 800 mm	Roto Sil	617127



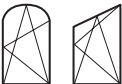
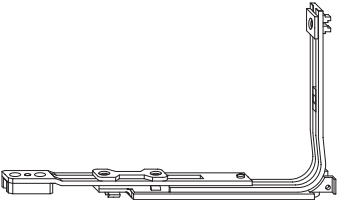
INFO

From SRW > 800 mm, use a sash stay corner drive, standard .



5.6 Special solutions

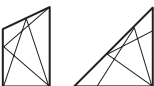
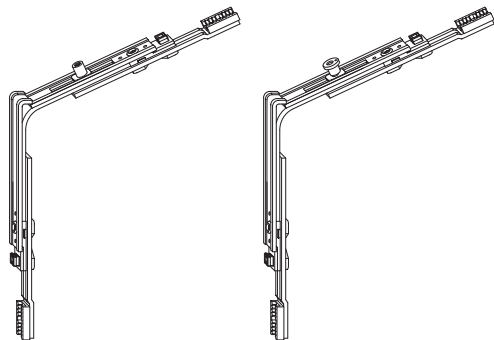
5.6.1 Arched window



				Nº
Corner drive for arched windows	110 / 0	Standard	Roto Sil	255273

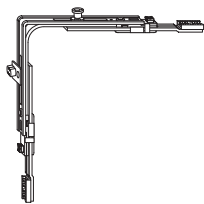


5.6.2 Pitched window



					Nº
Corner drive for pitched windows	110 / 110	1	E	Roto Sil	260279
		1	V	Roto Sil	260278

5.6.3 Night vent



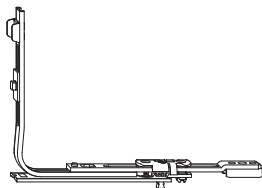
								Nº
Night vent corner drive	110 / 110	9	20	1	P	Left	Roto Sil	389819
				1	P	Right	Roto Sil	389818
		13	30	1	P	Left	Roto Sil	389817
				1	P	Right	Roto Sil	389816



INFO

Components cannot be used in conjunction with hinge side P and hinge side T.

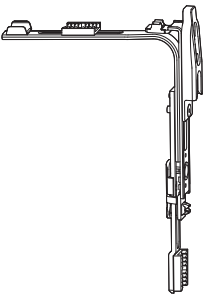
5.6.4 Backset espagnolette and reverse-action espagnolette



					Nº
Corner drive for backset espagnolette and reverse-action espagnolette	110 / 0	–	–	Roto Sil	383480
		1	V	Roto Sil	553749



5.6.5 Striker and protrusion



					Nº
Corner drive with striker and bolt extension	110 / 10	–	1	Roto Sil	484686







**Frame clearances**

Hinge side T	520
Hinge side C	521
Hinge side Designo (HA 13)	522
Hinge side Designo (HA 9)	522
Hinge side Royal	523

Stay guide

Hinge side T	524
Hinge side C	525
Hinge side Designo (HA 9 / HA 13)	526
Hinge side Royal	528

Stay arm

Hinge side T	529
Hinge side C	537
Hinge side Designo (HA 13)	539
Hinge side Designo (HA 9)	540
Hinge side Royal	541
Hinge side Power Hinge	543

Forcibly controlled scissor stay

Hinge side T	545
--------------	-----

Rebate stay guide

Hinge side T	546
Hinge side C	546
Hinge side Designo (HA 9 / HA 13)	547
Hinge side Royal	547

Rebate stay arm

Hinge side T	548
Hinge side C	549
Hinge side Designo (HA 13)	550
Hinge side Designo (HA 9)	551

Rebate stay hinge

Hinge side T	552
Hinge side Power Hinge	552

Turn-Only/Tilt-Only rebate hinge

Hinge side T	554
Hinge side Power Hinge	555

Stay bearing

Hinge side T	557
Hinge side Power Hinge	562
Stay-bearing pins	563

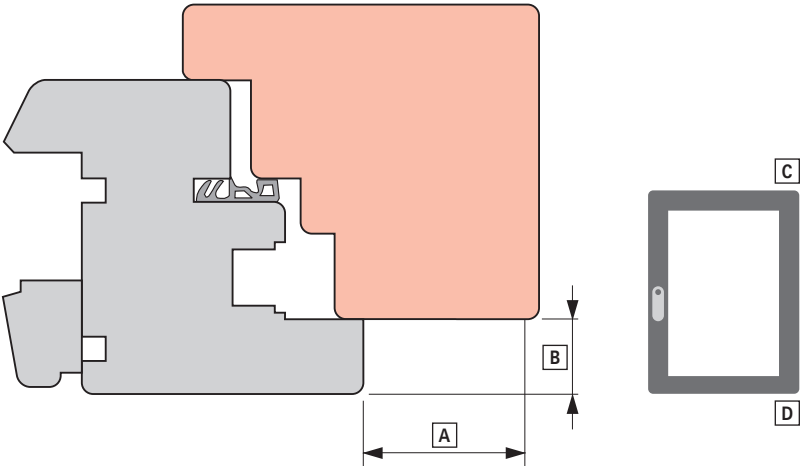
Cover caps

Hinge side T	564
--------------	-----

6 Sash stay

6.1 Frame clearances

6.1.1 Hinge side T



Frame clearances with an 18 mm overlap width.

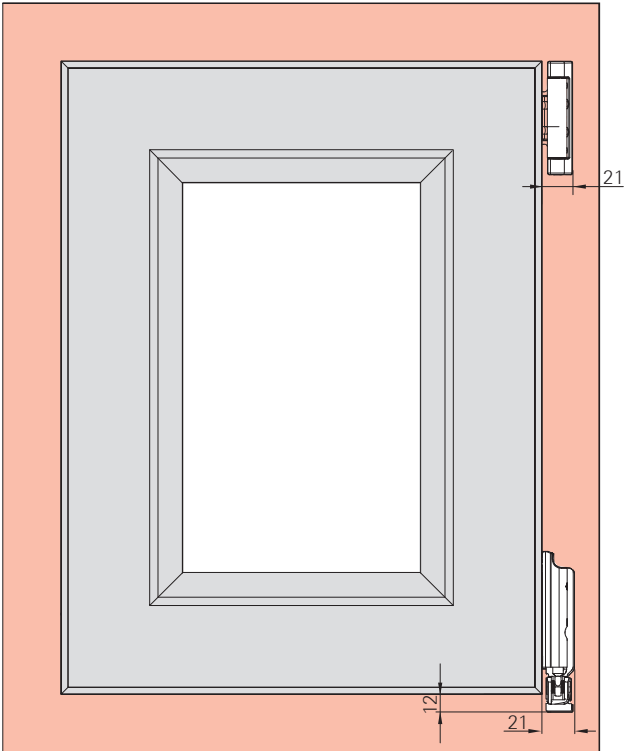
Sash weight	Opening angle	Frame clearance [A]	Overlap height [B]	Top [C]	Bottom [D]
150 kg	Approx. 180°	21.0	min. 16	0.0	12.0



INFO

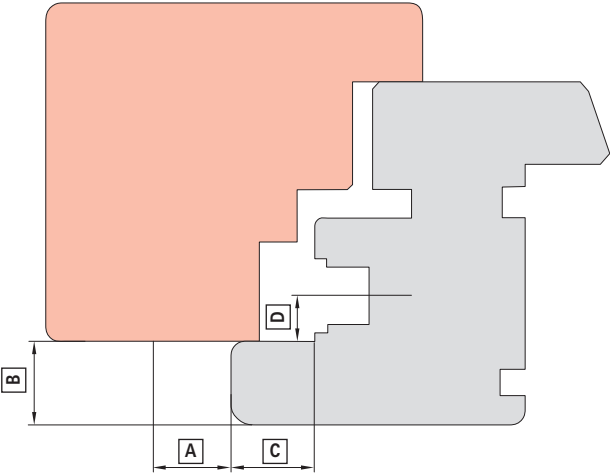
Clearances including cover caps.
Opening angle up to 21 mm overlap height.

Sash weight 150 kg





6.1.2 Hinge side C



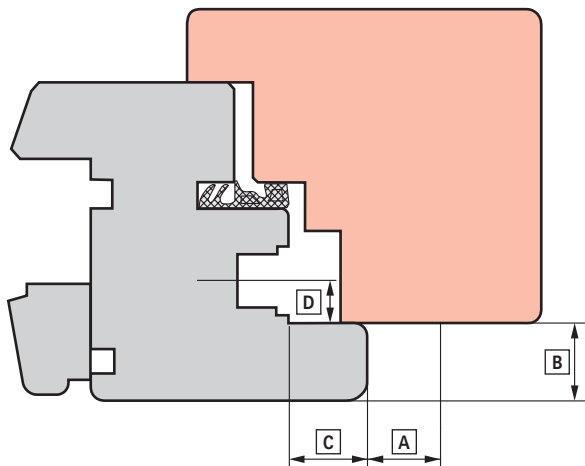
Frame clearances (in mm) with the sash opened from 0° to 90°.

Axis dimension [D]	Overlap height [B]	Overlap width [C]	Frame clearance [A]
13	16	18	3.5
	20	18	7.1
	24	18	10.8
	16	20	2.6
	20	20	6
	24	20	9.6
	16	22	2
	20	22	5
	24	22	8.4



The dimensions in the table apply to components in the delivery state (not adjusted).

6.1.3 Hinge side Designo (HA 13)

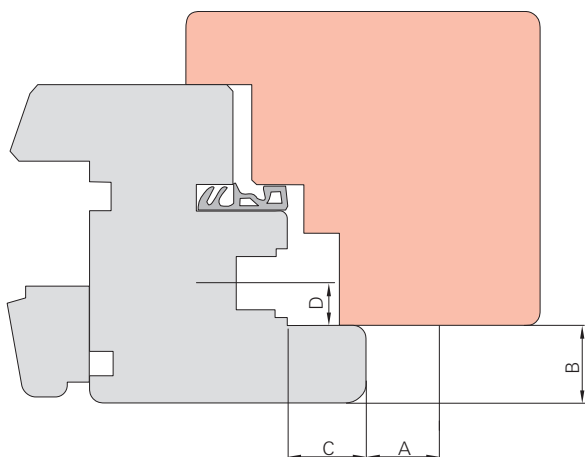


Frame clearances (in mm) with the window opened from 0° to 90°.

	Opening angle	Frame clearance [A]	Overlap height [B]	Overlap width [C]	Hardware axis [D]
Hinge side Designo (HA 13)	90°	6.4	16	18	13
	90°	8.8	20	18	13
	90°	11.7	24	18	13
	90°	6.1	16	20	13
	90°	8.4	20	20	13
	90°	11	24	20	13
	90°	5.9	16	22	13
	90°	8	20	22	13
	90°	10.5	24	22	13

The dimensions in the table apply to components in the delivery state (not adjusted).

6.1.4 Hinge side Designo (HA 9)



Frame clearances (in mm) with the sash opened from 0° to 90°.

Frame clearance [A]	Overlap height [B]	Overlap width [C]	Hardware axis [D]
16	16	18	9
18	18	18	9
20	20	18	9

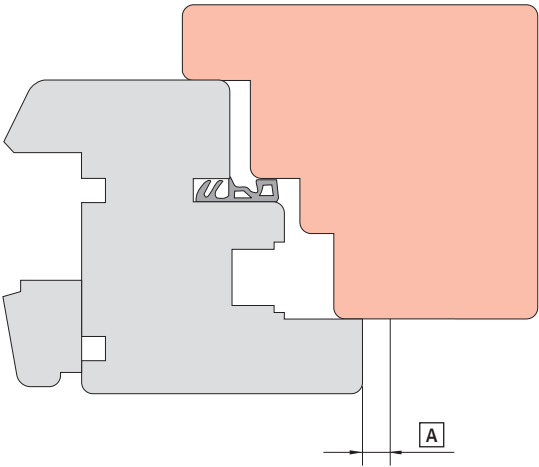
Formula for frame clearance with a 90° opening angle:

Frame clearance with a 90° opening angle = overlap height + 18 – overlap width

The frame clearance with a 100° opening angle depends on the depth of the reveal.



6.1.5 Hinge side Royal



Frame clearances with a 20 mm overlap width.

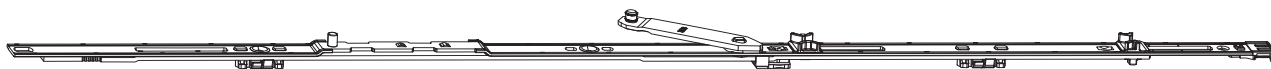
Hardware axis	Sash weight	Opening angle	Frame clearance [A]
9	60 / 80 kg	approx. 90°	5.0
13	60 / 80 kg	approx. 90°	5.0



6.2 Stay guide

6.2.1 Hinge side T

6.2.1.1 Basic security – RC 1 N



									Nº
Y	Y	290 – 410	300	120	150	–	–	Roto Sil	787345
		411 – 600	490	190	250	–	–	Roto Sil	787346
		601 – 800	690	200	350	–	–	Roto Sil	787347
		801 – 1000	890	200	500	–	–	Roto Sil	787348
			890	200	500	1	E	Roto Sil	788617
		1001 – 1200	1090	200	500	–	–	Roto Sil	787350
			1090	200	500	1	E	Roto Sil	787349
		1201 – 1400	1290	200	500	1	E	Roto Sil	787351



INFO

Additional stay arm required from SRW 1400 mm.

6.2.1.2 Security – RC 2 / RC 2 N



									Nº
Y	Y	801 – 1000	890	200	500	1	V	Roto Sil	787360
		1001 – 1200	1090	200	500	1	V	Roto Sil	787361
		1201 – 1400	1290	200	500	1	V	Roto Sil	787362

6.2.1.3 Security – RC 3



									Nº
Y	Y	801 – 1000	890	200	350	1	V	Roto Sil	787358



INFO

Centre lock (200 mm, 1 V cam) required from SRW 1001 mm.
Additional stay arm also required from SRW 1201 mm.

6.2.1.4 Turn-Only sash



								Nº
Basic security	290 – 410	300	120	150	–	–	Roto Sil	787366
	411 – 600	490	190	250	–	–	Roto Sil	787367
	601 – 800	690	200	350	–	–	Roto Sil	787368
	801 – 1000	890	200	500	1	E	Roto Sil	787369
Security	801 – 1000	890	200	500	1	V	Roto Sil	787370



INFO

Can only be used in combination with lever-operated espagnolette, standard.

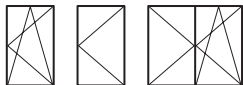


INFO

Centre lock required from SRW 711 mm.

6.2.2 Hinge side C

6.2.2.1 Basic security



							Nº
340 – 600	490	160	250	–	–	Roto Sil	2005271
601 – 800	690	200	350	–	–	Roto Sil	2005272
801 – 1000	890	200	500	1	E	Roto Sil	2005273
1001 – 1200	1090	200	500	1	E	Roto Sil	2005274
1201 – 1400	1290	200	500	1	E	Roto Sil	2005275

With S.kg > 150 kg, stay guide 500 must be mounted with fastening plate 255211.

6.2.2.2 Security



							Nº
340 – 600	490	160	250	–	–	Roto Sil	2005271
601 – 800	690	200	350	–	–	Roto Sil	2005272
801 – 1000	890	200	500	1	V	Roto Sil	2005276
1001 – 1200	1090	200	500	1	V	Roto Sil	2005277
1201 – 1400	1290	200	500	1	V	Roto Sil	2005278

With S.kg > 150 kg, stay guide 500 must be mounted with fastening plate 255211.

6.2.2.3 Turn-Only sash



					Nº
411 – 600	490	150	250	Roto Sil	2005279
511 – 710	600	200	250	Roto Sil	2005280



INFO

Can only be used in combination with lever-operated espagnolette, standard.

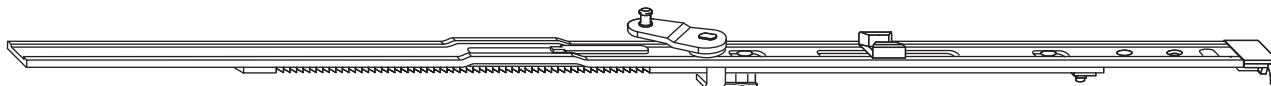


INFO

Centre lock required from SRW 711 mm.

6.2.3 Hinge side Designo (HA 9 / HA 13)

6.2.3.1 Basic security



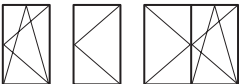
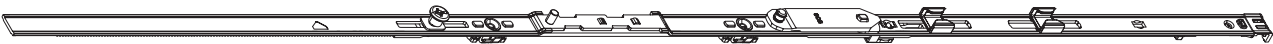
								Nº
330 – 600	490	170	250	–	–	Anti-slam device	Roto Sil	385393
601 – 800	690	200	350	–	–	–	Roto Sil	385394
801 – 1000	890	200	500	1	E	–	Roto Sil	385415
1001 – 1200	1090	200	500	1	E	–	Roto Sil	385416



INFO

Additional stay arm required from SRW 1201 mm.

6.2.3.2 Security



							Nº
801 – 1000	890	200	500	1	V	Roto Sil	450373
1001 – 1200	1090	200	500	1	V	Roto Sil	450374



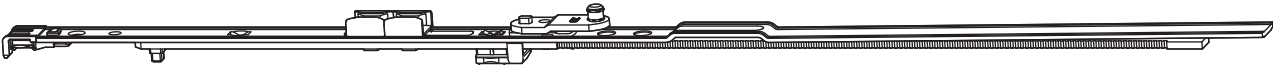
INFO

Additional stay arm required from SRW 1201 mm.



6.2.3.3 Turn-Only sash

Lever-operated espagnolette – Standard



									Nº
Security	430 – 510	400	80	250	–	–	Travel 18 mm	Roto Sil	482571
	511 – 710	600	200	250	–	–	Travel 18 mm	Roto Sil	815784



INFO

Centre lock required from SRW 711 mm.

Lever-operated espagnolette – Plus



								Nº
Security	601 – 800	690	200	250	–	–	Roto Sil	2003336



INFO

Centre lock required from SRW 801 mm.

6.2.4 Hinge side Royal

6.2.4.1 Basic security



							Nº
360 – 410	300	50	250	–	–	Roto Sil	570222
411 – 600	490	190	250	–	–	Roto Sil	570223
601 – 800	690	200	250	–	–	Roto Sil	570224
801 – 1000	890	200	450	1	E	Roto Sil	570345
1001 – 1200	1090	200	450	1	E	Roto Sil	570346



INFO

Additional stay arm required from SRW 1201 mm.

6.2.4.2 Security



							Nº
801 – 1000	890	200	450	1	V	Roto Sil	601551
1001 – 1200	1090	200	450	1	V	Roto Sil	601552



INFO

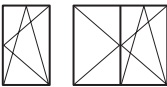
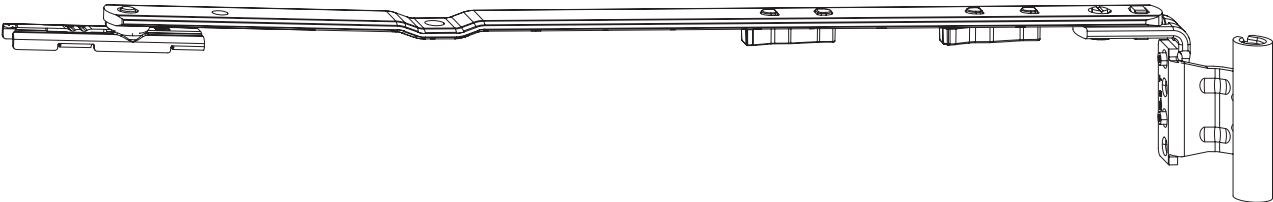
Additional stay arm required from SRW 1201 mm.



6.3 Stay arm

6.3.1 Hinge side T

6.3.1.1 Standard



						Nº
12/18-9	290 – 410	150	Y	Roto Sil	Left	787281
			Y	Roto Sil	Right	787282
			Y	White	Left	787313
			Y	White	Right	787314
			Y	Titanium	Left	828661
			Y	Titanium	Right	828662
	411 – 600	250	Y	Roto Sil	Left	787283
			Y	Roto Sil	Right	787284
			Y	White	Left	787315
			Y	White	Right	787316
			Y	Titanium	Left	828663
			Y	Titanium	Right	828664
	601 – 800	350	Y	Roto Sil	Left	787285
			Y	Roto Sil	Right	787286
			Y	White	Left	787317
			Y	White	Right	787318
			Y	Titanium	Left	828665
			Y	Titanium	Right	828666
	801 – 1400	500	Y	Roto Sil	Left	787287
			Y	Roto Sil	Right	787288
			Y	White	Left	787319
			Y	White	Right	787320
			Y	Titanium	Left	828667
			Y	Titanium	Right	828668



						Nº
12/20-9	290 – 410	150	Y	Roto Sil	Left	787297
			Y	Roto Sil	Right	787298
			Y	White	Left	787329
			Y	White	Right	787330
			Y	Titanium	Left	828669
			Y	Titanium	Right	828670
	411 – 600	250	Y	Roto Sil	Left	787299
			Y	Roto Sil	Right	787300
			Y	White	Left	787331
			Y	White	Right	787332
			Y	Titanium	Left	828671
			Y	Titanium	Right	828672
	601 – 800	350	Y	Roto Sil	Left	787301
			Y	Roto Sil	Right	787302
			Y	White	Left	787333
			Y	White	Right	787334
			Y	Titanium	Left	828673
			Y	Titanium	Right	828674
	801 – 1400	500	Y	Roto Sil	Left	787303
			Y	Roto Sil	Right	787304
			Y	White	Left	787335
			Y	White	Right	787336
			Y	Titanium	Left	828675
			Y	Titanium	Right	828676
12/18-13	290 – 410	150	Y	Roto Sil	Left	787289
			Y	Roto Sil	Right	787290
			Y	White	Left	787321
			Y	White	Right	787322
			Y	Titanium	Left	795234
			Y	Titanium	Right	795235
	411 – 600	250	Y	Roto Sil	Left	787291
			Y	Roto Sil	Right	787292
			Y	White	Left	787323
			Y	White	Right	787324
			Y	Titanium	Left	795236
			Y	Titanium	Right	795237
	601 – 800	350	Y	Roto Sil	Left	787293
			Y	Roto Sil	Right	787294
			Y	White	Left	787325
			Y	White	Right	787326
			Y	Titanium	Left	795238
			Y	Titanium	Right	795239
	801 – 1400	500	Y	Roto Sil	Left	787295
			Y	Roto Sil	Right	787296
			Y	White	Left	787327
			Y	White	Right	787328
			Y	Titanium	Left	795240
			Y	Titanium	Right	795241



						Nº
12/20-13	290 – 410	150	Y	Roto Sil	Left	787305
			Y	Roto Sil	Right	787306
			Y	White	Left	787337
			Y	White	Right	787338
			Y	Titanium	Left	828677
			Y	Titanium	Right	828678
	411 – 600	250	Y	Roto Sil	Left	787307
			Y	Roto Sil	Right	787308
			Y	White	Left	787339
			Y	White	Right	787340
			Y	Titanium	Left	828679
			Y	Titanium	Right	828680
	601 – 800	350	Y	Roto Sil	Left	787309
			Y	Roto Sil	Right	787310
			Y	White	Left	787341
			Y	White	Right	787342
			Y	Titanium	Left	828681
			Y	Titanium	Right	828682
	801 – 1400	500	Y	Roto Sil	Left	787311
			Y	Roto Sil	Right	787312
			Y	White	Left	787343
			Y	White	Right	787344
			Y	Titanium	Left	828683
			Y	Titanium	Right	828684



For compatible stay bearings, see → *from page 557*.

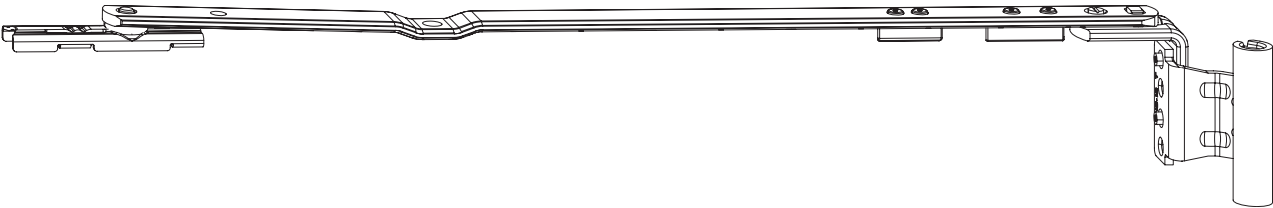
For compatible cover caps, see → *from page 564*.



INFO

With SRH < 500 mm, set the tilt distance to 80 mm.

6.3.1.2 TiltFirst (TF)



Sash stay
Stay arm
Hinge side T



						Nº
12/18-9	290 – 410	150	N	Roto Sil	Left	810152
			N	Roto Sil	Right	810153
			N	White	Left	811843
			N	White	Right	811844
			N	Titanium	Left	811875
			N	Titanium	Right	811876
	411 – 600	250	N	Roto Sil	Left	810154
			N	Roto Sil	Right	810155
			N	White	Left	811845
			N	White	Right	811846
			N	Titanium	Left	811877
			N	Titanium	Right	811878
	601 – 800	350	N	Roto Sil	Left	810156
			N	Roto Sil	Right	810157
			N	White	Left	811847
			N	White	Right	811848
			N	Titanium	Left	811879
			N	Titanium	Right	811880
	801 – 1400	500	N	Roto Sil	Left	810158
			N	Roto Sil	Right	810159
			N	White	Left	811849
			N	White	Right	811850
			N	Titanium	Left	811881
			N	Titanium	Right	811882
12/20-9	290 – 410	150	N	Roto Sil	Left	810168
			N	Roto Sil	Right	810169
			N	White	Left	811859
			N	White	Right	811860
			N	Titanium	Left	811891
			N	Titanium	Right	811892
	411 – 600	250	N	Roto Sil	Left	810170
			N	Roto Sil	Right	810171
			N	White	Left	811861
			N	White	Right	811862
			N	Titanium	Left	811893
			N	Titanium	Right	811894
	601 – 800	350	N	Roto Sil	Left	810172
			N	Roto Sil	Right	810173
			N	White	Left	811863
			N	White	Right	811864
			N	Titanium	Left	811895
			N	Titanium	Right	811896
	801 – 1400	500	N	Roto Sil	Left	810174
			N	Roto Sil	Right	810175
			N	White	Left	811865
			N	White	Right	811866
			N	Titanium	Left	811897
			N	Titanium	Right	811898



						Nº
12/18-13	290 – 410	150	N	Roto Sil	Left	810160
			N	Roto Sil	Right	810161
			N	White	Left	811851
			N	White	Right	811852
			N	Titanium	Left	811883
			N	Titanium	Right	811884
	411 – 600	250	N	Roto Sil	Left	810162
			N	Roto Sil	Right	810163
			N	White	Left	811853
			N	White	Right	811854
			N	Titanium	Left	811885
			N	Titanium	Right	811886
	601 – 800	350	N	Roto Sil	Left	810164
			N	Roto Sil	Right	810165
			N	White	Left	811855
			N	White	Right	811856
			N	Titanium	Left	811887
			N	Titanium	Right	811888
	801 – 1400	500	N	Roto Sil	Left	810166
			N	Roto Sil	Right	810167
			N	White	Left	811857
			N	White	Right	811858
			N	Titanium	Left	811889
			N	Titanium	Right	811890
12/20-13	290 – 410	150	N	Roto Sil	Left	810176
			N	Roto Sil	Right	810177
			N	White	Left	811867
			N	White	Right	811868
			N	Titanium	Left	811899
			N	Titanium	Right	811900
	411 – 600	250	N	Roto Sil	Left	810178
			N	Roto Sil	Right	810179
			N	White	Left	811869
			N	White	Right	811870
			N	Titanium	Left	811901
			N	Titanium	Right	811902
	601 – 800	350	N	Roto Sil	Left	810180
			N	Roto Sil	Right	810181
			N	White	Left	811871
			N	White	Right	811872
			N	Titanium	Left	811903
			N	Titanium	Right	811904
	801 – 1400	500	N	Roto Sil	Left	810182
			N	Roto Sil	Right	810183
			N	White	Left	811873
			N	White	Right	811874
			N	Titanium	Left	811905
			N	Titanium	Right	811906

For compatible stay bearings, see → *from page 557*.

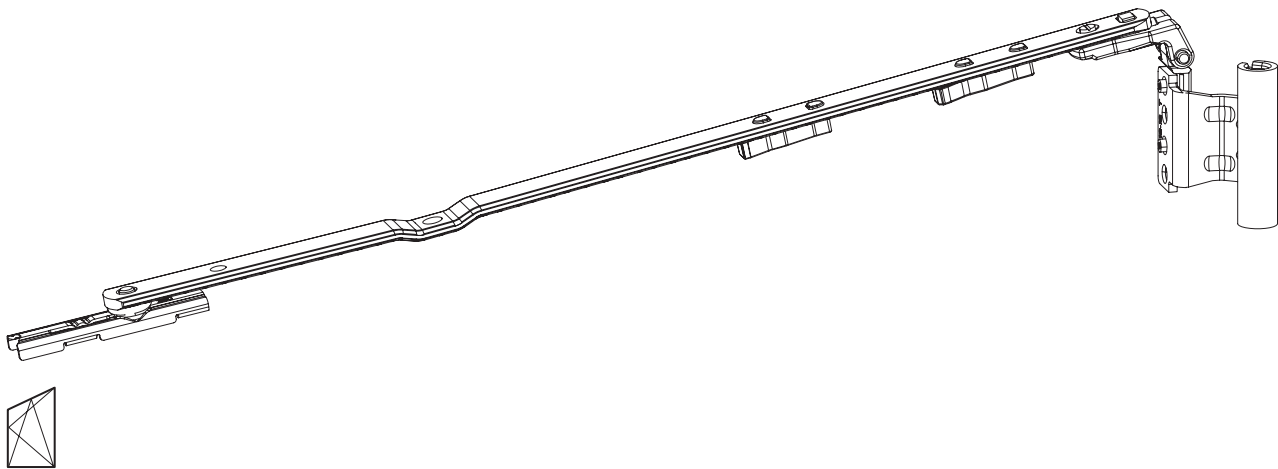
For compatible cover caps, see → *from page 565*.



INFO

With SRH < 500 mm, set the tilt distance to 80 mm.

6.3.1.3 Pitched window (SF)



						Nº
12/18-9	290 – 410	150	Y	Roto Sil	Left	810120
			Y	Roto Sil	Right	810121
			Y	White	Left	811771
			Y	White	Right	811772
			Y	Titanium	Left	811811
			Y	Titanium	Right	811812
	411 – 600	250	Y	Roto Sil	Left	810122
			Y	Roto Sil	Right	810123
			Y	White	Left	811773
			Y	White	Right	811774
			Y	Titanium	Left	811813
			Y	Titanium	Right	811814
	601 – 800	350	Y	Roto Sil	Left	810124
			Y	Roto Sil	Right	810125
			Y	White	Left	811775
			Y	White	Right	811776
			Y	Titanium	Left	811815
			Y	Titanium	Right	811816
	801 – 1400	500	Y	Roto Sil	Left	810126
			Y	Roto Sil	Right	810127
			Y	White	Left	811777
			Y	White	Right	811778
			Y	Titanium	Left	811817
			Y	Titanium	Right	811818



						Nº
12/20-9	290 – 410	150	Y	Roto Sil	Left	810136
			Y	Roto Sil	Right	810137
			Y	White	Left	811787
			Y	White	Right	811788
			Y	Titanium	Left	811827
			Y	Titanium	Right	811828
	411 – 600	250	Y	Roto Sil	Left	810138
			Y	Roto Sil	Right	810139
			Y	White	Left	811789
			Y	White	Right	811790
			Y	Titanium	Left	811829
			Y	Titanium	Right	811830
	601 – 800	350	Y	Roto Sil	Left	810140
			Y	Roto Sil	Right	810141
			Y	White	Left	811791
			Y	White	Right	811792
			Y	Titanium	Left	811831
			Y	Titanium	Right	811832
	801 – 1400	500	Y	Roto Sil	Left	810142
			Y	Roto Sil	Right	810143
			Y	White	Left	811793
			Y	White	Right	811794
			Y	Titanium	Left	811833
			Y	Titanium	Right	811834
12/18-13	290 – 410	150	Y	Roto Sil	Left	810128
			Y	Roto Sil	Right	810129
			Y	White	Left	811779
			Y	White	Right	811780
			Y	Titanium	Left	811819
			Y	Titanium	Right	811820
	411 – 600	250	Y	Roto Sil	Left	810130
			Y	Roto Sil	Right	810131
			Y	White	Left	811781
			Y	White	Right	811782
			Y	Titanium	Left	811821
			Y	Titanium	Right	811822
	601 – 800	350	Y	Roto Sil	Left	810132
			Y	Roto Sil	Right	810133
			Y	White	Left	811783
			Y	White	Right	811784
			Y	Titanium	Left	811823
			Y	Titanium	Right	811824
	801 – 1400	500	Y	Roto Sil	Left	810134
			Y	Roto Sil	Right	810135
			Y	White	Left	811785
			Y	White	Right	811786
			Y	Titanium	Left	811825
			Y	Titanium	Right	811826



						Nº
12/20-13	290 – 410	150	Y	Roto Sil	Left	810144
			Y	Roto Sil	Right	810145
			Y	White	Left	811795
			Y	White	Right	811796
			Y	Titanium	Left	811835
			Y	Titanium	Right	811836
	411 – 600	250	Y	Roto Sil	Left	810146
			Y	Roto Sil	Right	810147
			Y	White	Left	811797
			Y	White	Right	811801
			Y	Titanium	Left	811837
			Y	Titanium	Right	811838
	601 – 800	350	Y	Roto Sil	Left	810148
			Y	Roto Sil	Right	810149
			Y	White	Left	811802
			Y	White	Right	811804
			Y	Titanium	Left	811839
			Y	Titanium	Right	811840
	801 – 1400	500	Y	Roto Sil	Left	810150
			Y	Roto Sil	Right	810151
			Y	White	Left	811805
			Y	White	Right	811806
			Y	Titanium	Left	811841
			Y	Titanium	Right	811842

For compatible stay bearings, see → *from page 561*.

For compatible cover caps, see → *from page 565*.

For the end piece, see → *from page 676*.

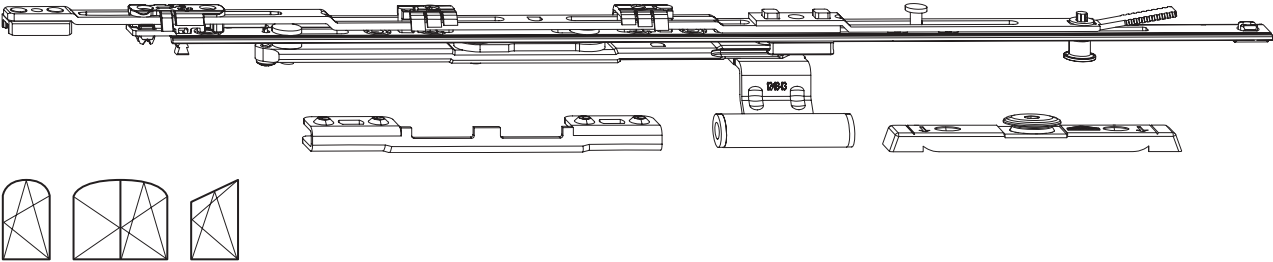


INFO

With SRH < 500 mm, set the tilt distance to 80 mm.



6.3.1.4 Arched window set



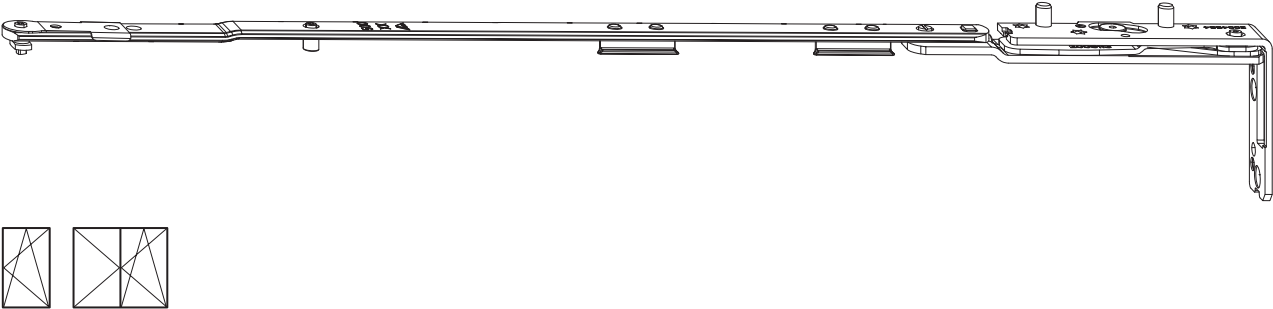
	 #			Nº
12/18-9	1	E	Roto Sil	810101
	1	V	Roto Sil	810100
	1	V	White	837130
	1	V	Titanium	837131
12/20-9	1	E	Roto Sil	810104
	1	V	Roto Sil	810103
12/18-13	1	V	Roto Sil	810102
	1	V	White	837132
	1	V	Titanium	837133
12/20-13	1	V	Roto Sil	810105

For compatible stay bearings, see → from page 562.

For compatible cover caps, see → from page 565.

6.3.2 Hinge side C

6.3.2.1 Standard



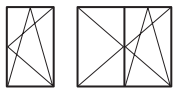
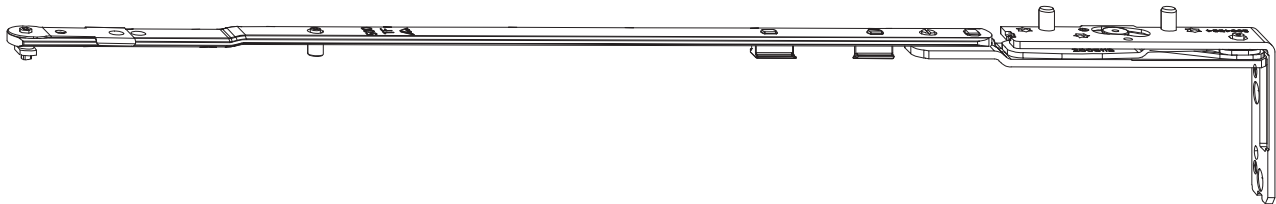
							Nº
12/18-13 12/20-13 12/22-13	340 – 600	250	24	12	Roto Sil	Left	2005202
				12	Roto Sil	Right	2005203
			30	12	Roto Sil	Left	2008542
				12	Roto Sil	Right	2008543
	601 – 800	350	24	12	Roto Sil	Left	2005249
				12	Roto Sil	Right	2005250
			30	12	Roto Sil	Left	2008544
				12	Roto Sil	Right	2008545
	801 – 1750	500	24	12	Roto Sil	Left	2005251
				12	Roto Sil	Right	2005252
			30	12	Roto Sil	Left	2008546
				12	Roto Sil	Right	2008547



INFO

From SRH < 600 mm, set the tilt depth to 80 mm (on windows without overlap gasket from SRH < 900 mm).

6.3.2.2 TiltFirst



							Nº
12/18-13 12/20-13 12/22-13	340 – 600	250	24	12	Roto Sil	Left	2005259
			24	12	Roto Sil	Right	2005260
	601 – 800	350	24	12	Roto Sil	Left	2005261
			24	12	Roto Sil	Right	2005262
	801 – 1750	500	24	12	Roto Sil	Left	2005263
			24	12	Roto Sil	Right	2005264



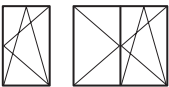
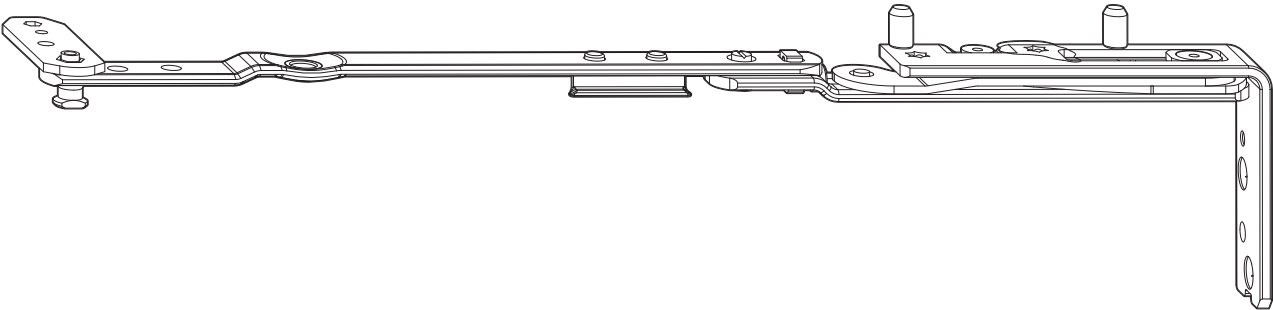
INFO

From SRH < 600 mm, set the tilt depth to 80 mm (on windows without overlap gasket from SRH < 900 mm).



6.3.3 Hinge side Designo (HA 13)

6.3.3.1 Standard



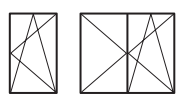
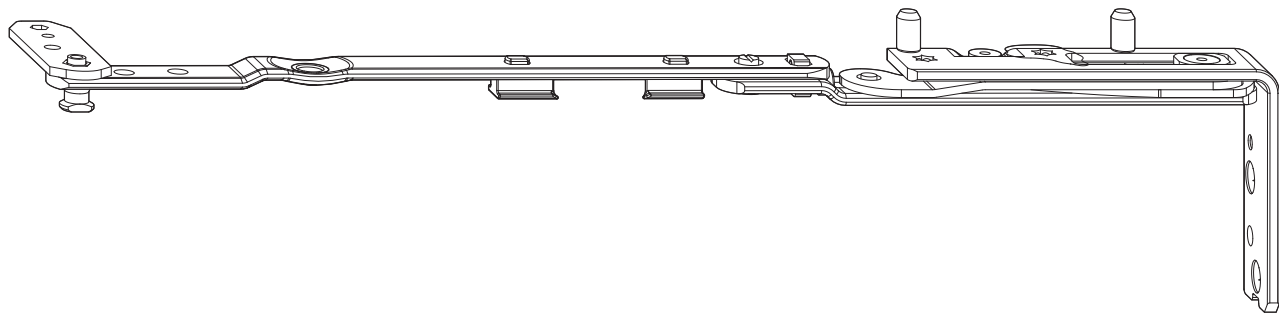
							Nº
12/18-13 12/20-13 12/22-13	330 – 600	250	24	12	Roto Sil	Left	563732
			24	12	Roto Sil	Right	563728
			30	12	Roto Sil	Left	570054
			30	12	Roto Sil	Right	570050
	601 – 800	350	24	12	Roto Sil	Left	563733
			24	12	Roto Sil	Right	563729
			30	12	Roto Sil	Left	570075
			30	12	Roto Sil	Right	570051
	801 – 1400	500	24	12	Roto Sil	Left	563734
			24	12	Roto Sil	Right	563730
			30	12	Roto Sil	Left	570076
			30	12	Roto Sil	Right	570052



INFO

From SRH < 600 mm, set the tilt depth to 80 mm (on windows without overlap gasket from SRH < 900 mm).

6.3.3.2 TiltFirst (TF)



							Nº
12/18-13 12/20-13 12/22-13	330 – 600	250	24	12	Roto Sil	Left	600800
			24	12	Roto Sil	Right	600801
	601 – 800	350	24	12	Roto Sil	Left	600802
			24	12	Roto Sil	Right	600803
	801 – 1400	500	24	12	Roto Sil	Left	600804
			24	12	Roto Sil	Right	600805

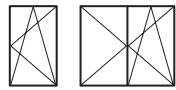
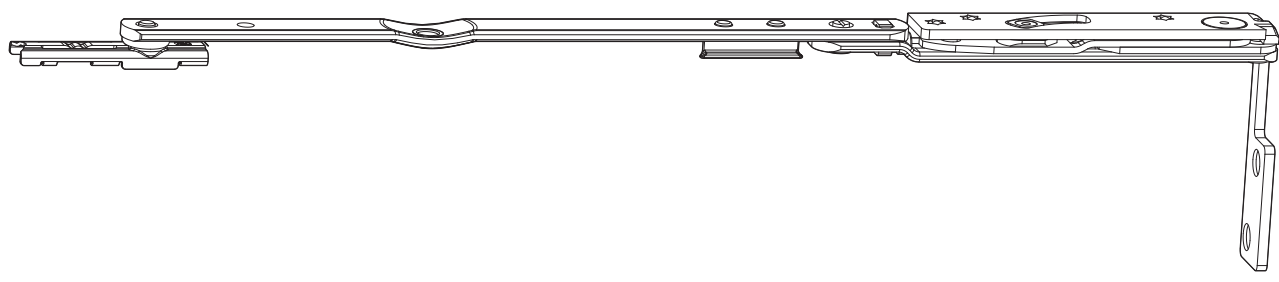


INFO

From SRH < 600 mm, set the tilt depth to 80 mm (on windows without overlap gasket from SRH < 900 mm).

6.3.4 Hinge side Designo (HA 9)

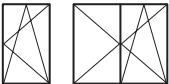
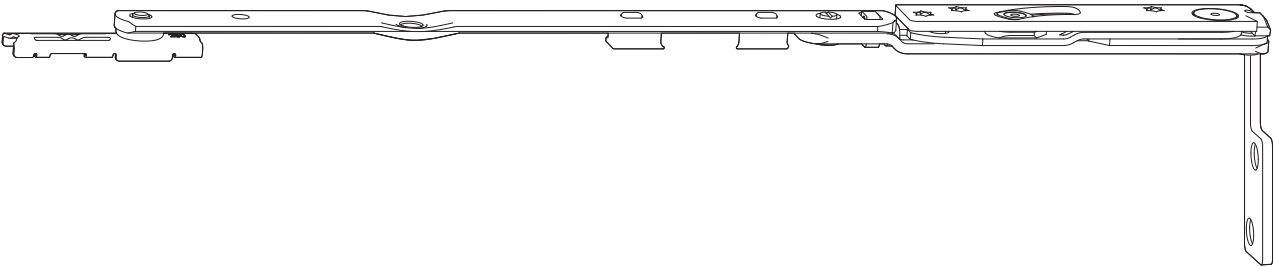
6.3.4.1 Standard



							Nº
12/18-9 12/20-9	330 – 600	250	20	12	Roto Sil	Left	385418
			20	12	Roto Sil	Right	385417
	601 – 800	350	20	12	Roto Sil	Left	385420
			20	12	Roto Sil	Right	385419
	801 – 1400	500	20	12	Roto Sil	Left	385422
			20	12	Roto Sil	Right	385421



6.3.4.2 TiltFirst (TF)

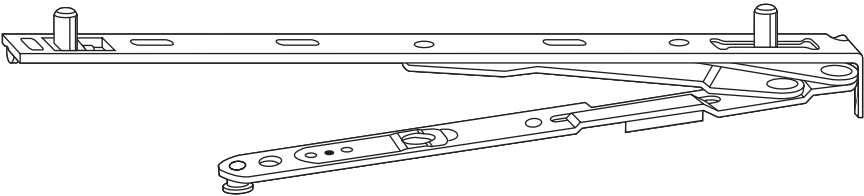


							Nº
12/18-9 12/20-9	330 – 600	250	20	12	Roto Sil	Left	389518
			20	12	Roto Sil	Right	389517
	601 – 800	350	20	12	Roto Sil	Left	389520
			20	12	Roto Sil	Right	389519
	801 – 1400	500	20	12	Roto Sil	Left	389522
			20	12	Roto Sil	Right	389521



6.3.5 Hinge side Royal

6.3.5.1 Standard

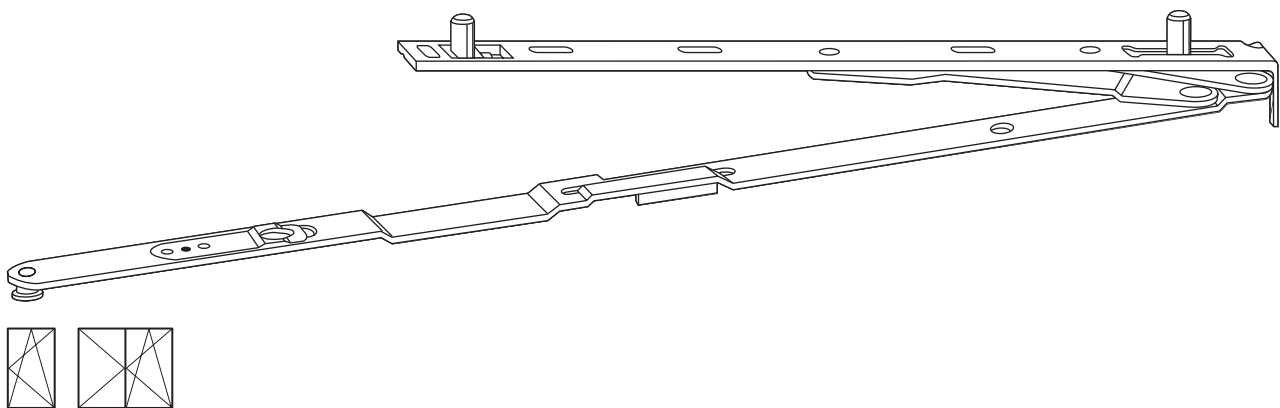


								Nº
Eurofalz Euronut 7/8	360 – 800	250	9	18	12	Roto Sil	Left	263331
				18	12	Roto Sil	Right	263245
			13	20	12	Roto Sil	Left	254264
				20	12	Roto Sil	Right	254265



INFO

With SRH < 500 mm, set the tilt depth to 90 mm.



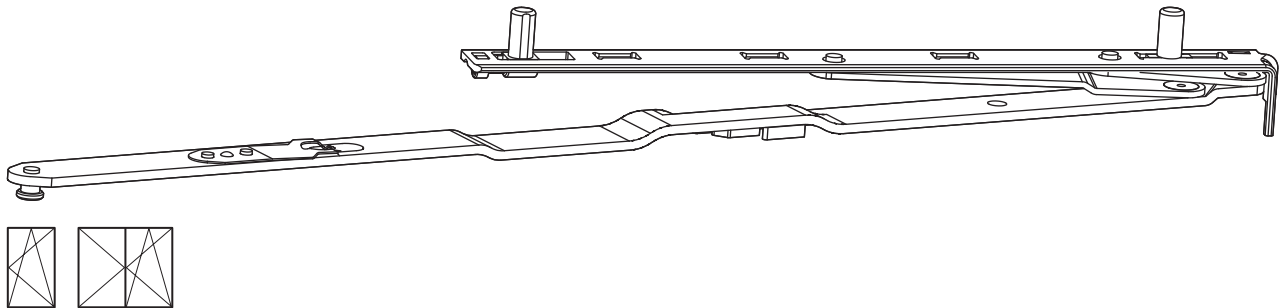
								Nº
Eurofalz Euronut 7/8	801 – 1400	450	9	18	12	Roto Sil	Left	563069
				18	12	Roto Sil	Right	563068
			9 13	20	12	Roto Sil	Left	254266
				20	12	Roto Sil	Right	254267



INFO

With SRH < 500 mm, set the tilt depth to 90 mm.

6.3.5.2 TiltFirst (TF)



								Nº
Eurofalz Euronut 7/8	360 – 800	250	9	20	12	Roto Sil	Left	324662
				20	12	Roto Sil	Right	324863
	801 – 1400	450	9 13	20	12	Roto Sil	Left	324864
				20	12	Roto Sil	Right	324865



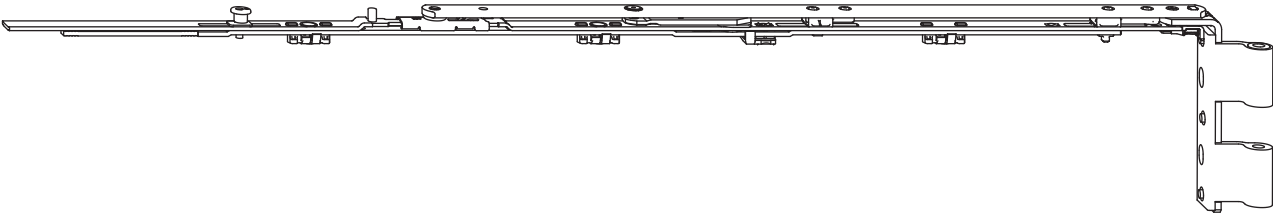
INFO

With SRH < 500 mm, set the tilt depth to 90 mm.



6.3.6 Hinge side Power Hinge

6.3.6.1 Standard



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



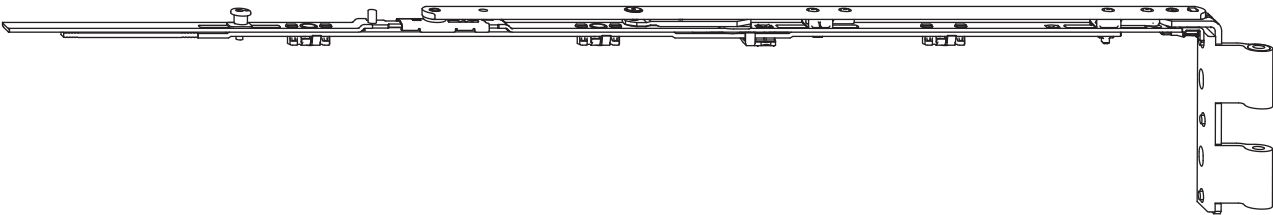
For compatible stay bearings, see → from page 562.



INFO

For application ranges between SRW 1001 and 1600 mm, also use a centre lock.

6.3.6.2 TiltFirst (TF)



							Nº
12/18-9 12/20-9	600 – 800	350	29	12	White aluminium	Left	602043
			29	12	White aluminium	Right	602044
	801 – 1000	500	29	12	White aluminium	Left	602045
			29	12	White aluminium	Right	602046

Sash stay
Stay arm
Hinge side Power Hinge

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

For compatible stay bearings, see → *from page 562*.



INFO
For application ranges between SRW 1001 and 1600 mm, also use a centre lock.

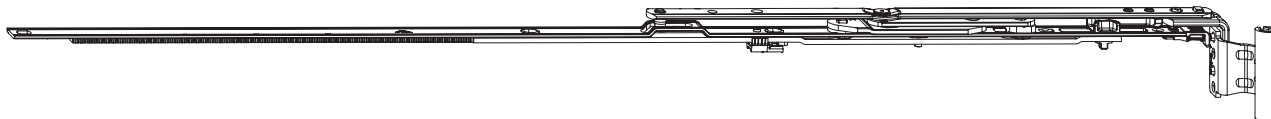




6.4 Forcibly controlled scissor stay

6.4.1 Hinge side T

6.4.1.1 Comfort



										Nº
12/18-9	520 – 600	490	190	250	max. 50 kg	–	–	Roto Sil	Left	810184
		490	190		max. 50 kg	–	–	Roto Sil	Right	810185
	601 – 800	690	200	350	max. 50 kg	–	–	Roto Sil	Left	810186
		690	200		max. 50 kg	–	–	Roto Sil	Right	810187
	801 – 1000	890	200	500	max. 50 kg	1	E	Roto Sil	Left	810188
		890	200		max. 50 kg	1	E	Roto Sil	Right	810189
12/18-13	520 – 600	490	190	250	max. 50 kg	–	–	Roto Sil	Left	810190
		490	190		max. 50 kg	–	–	Roto Sil	Right	810191
	601 – 800	690	200	350	max. 50 kg	–	–	Roto Sil	Left	810192
		690	200		max. 50 kg	–	–	Roto Sil	Right	810193
	801 – 1000	890	200	500	max. 50 kg	1	E	Roto Sil	Left	810194
		890	200		max. 50 kg	1	E	Roto Sil	Right	810195
12/20-13	520 – 600	490	190	250	max. 50 kg	–	–	Roto Sil	Left	810196
		490	190		max. 50 kg	–	–	Roto Sil	Right	810197
		490	190		max. 50 kg	–	–	White	Left	837134
		490	190		max. 50 kg	–	–	White	Right	837135
		490	190		max. 50 kg	–	–	Titanium	Left	837136
		490	190		max. 50 kg	–	–	Titanium	Right	837137
	601 – 800	690	200	350	max. 50 kg	–	–	Roto Sil	Left	810198
		690	200		max. 50 kg	–	–	Roto Sil	Right	810199
		690	200		max. 50 kg	–	–	White	Left	837138
		690	200		max. 50 kg	–	–	White	Right	837139
		690	200		max. 50 kg	–	–	Titanium	Left	834358
		690	200		max. 50 kg	–	–	Titanium	Right	834359
	801 – 1000	890	200	500	max. 50 kg	1	E	Roto Sil	Left	810200
		890	200		max. 50 kg	1	E	Roto Sil	Right	810201
		890	200		max. 50 kg	1	E	White	Left	837140
		890	200		max. 50 kg	1	E	White	Right	837141
		890	200		max. 50 kg	1	E	Titanium	Left	834365
		890	200		max. 50 kg	1	E	Titanium	Right	834366

For compatible stay bearings, see → *from page 561*.

For compatible cover caps, see → *from page 565*.

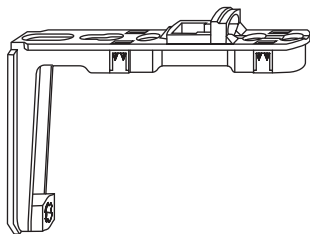


INFO

For application ranges between SRW 1001 and 1400 mm, also use an espagnolette extension.

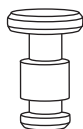
6.5 Rebate stay guide

6.5.1 Hinge side T



			Nº
Rebate stay guide for hinge side P / T / A16	110 / 65	Roto Sil	331488

For compatible rebate stay arms, see → *from page 548*.



		Nº
Packer for Tilt-Only sash	Roto Sil	230651

6.5.2 Hinge side C

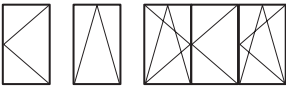
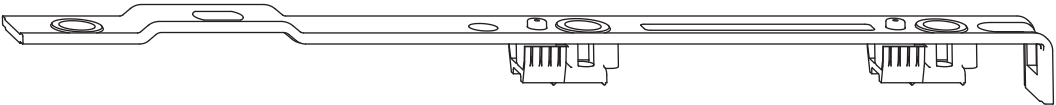


			Nº
For Turn-Only sashes	220 / 15	Roto Sil	2005701
For Tilt-Only sashes	220 / 50	Roto Sil	2005281

For compatible rebate stay arms, see → *from page 549*.



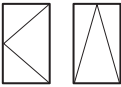
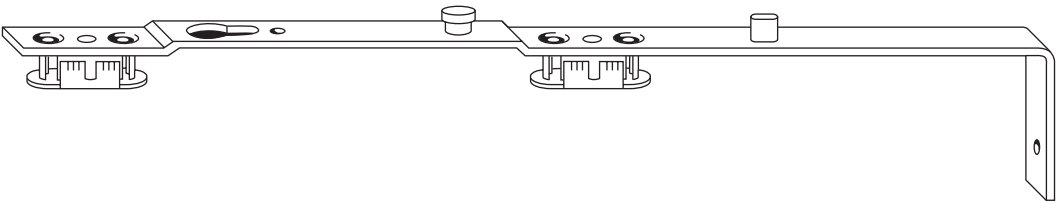
6.5.3 Hinge side Designo (HA 9 / HA 13)



			Nº
For Turn-Only sashes	224 / 15	Roto Sil	477255
For Tilt-Only sashes	224 / 50	Roto Sil	640563

For compatible rebate stay arms, see → from page 550.

6.5.4 Hinge side Royal



			Nº
Rebate stay guide for hinge side Royal	290 / 42	Roto Sil	254068

For compatible stay arms, see → from page 541.

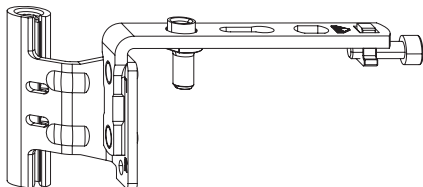


	Nº
Locking screw for Tilt-Only sash (self-tapping screw B 3.5 x 9.5 DIN 7981)	227131



6.6 Rebate stay arm

6.6.1 Hinge side T



				Nº
12/18-9		Roto Sil	Left	810446
		Roto Sil	Right	810447
		White	Left	810448
		White	Right	810449
		Titanium	Left	828693
		Titanium	Right	828694
12/20-9		Roto Sil	Left	810484
		Roto Sil	Right	810485
12/18-13		Roto Sil	Left	810478
		Roto Sil	Right	810479
		White	Left	810480
		White	Right	810481
		Titanium	Left	795258
		Titanium	Right	795259
12/20-13		Roto Sil	Left	810490
		Roto Sil	Right	810491
		White	Left	837116
		White	Right	837118
		Titanium	Left	834367
		Titanium	Right	834368

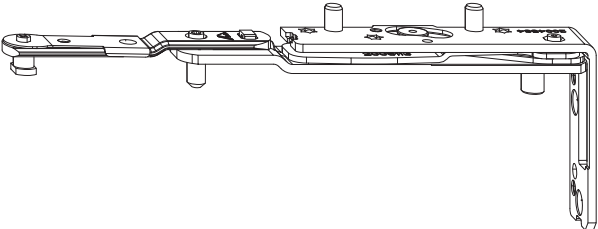
For compatible stay bearings, see → *from page 561*.

For the compatible rebate stay guide, see → *from page 546*.



6.6.2 Hinge side C

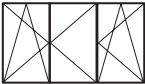
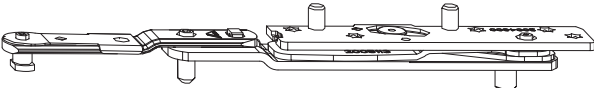
6.6.2.1 Standard



					Nº
12/18-13 12/20-13 12/22-13	24	12	Roto Sil	Left	2005282
		12	Roto Sil	Right	2005283
	30	12	Roto Sil	Left	2008801
		12	Roto Sil	Right	2008802

For the compatible rebate stay guide, see → from page 546

6.6.2.2 Triple-sashed windows (centre sash)



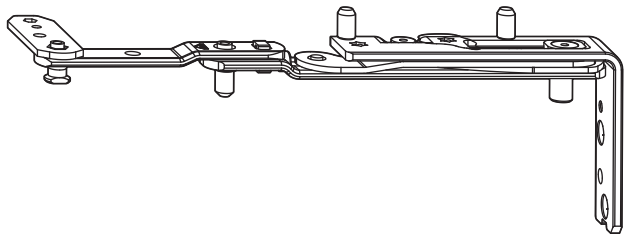
					Nº
12/18-13 12/20-13 12/22-13	24	12	Roto Sil	Left	2008843
		12	Roto Sil	Right	2008844

Compatible rebate stay guide → from page 546



6.6.3 Hinge side Designo (HA 13)

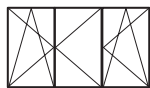
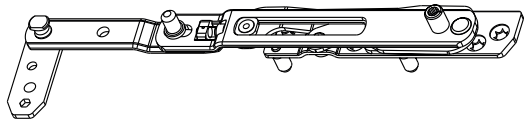
6.6.3.1 Standard



					Nº
12/18-13 12/20-13 12/22-13	24	12	Roto Sil	Left	563735
	24	12	Roto Sil	Right	563731
	30	12	Roto Sil	Left	570077
	30	12	Roto Sil	Right	570053

For the compatible rebate stay guide, see → *from page 547*.

6.6.3.2 Triple-sashed windows (centre sash)

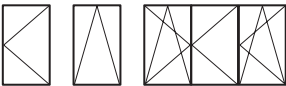
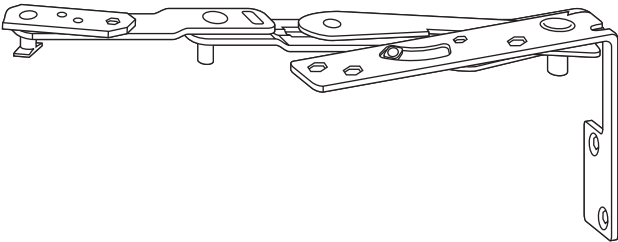


						Nº
12/18-13 12/20-13 12/22-13	24	12	Also rebate depth 30	Roto Sil	Left	738584
	24	12	Also rebate depth 30	Roto Sil	Right	738583

For the compatible rebate stay guide, see → *from page 547*.



6.6.4 Hinge side Designo (HA 9)



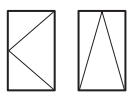
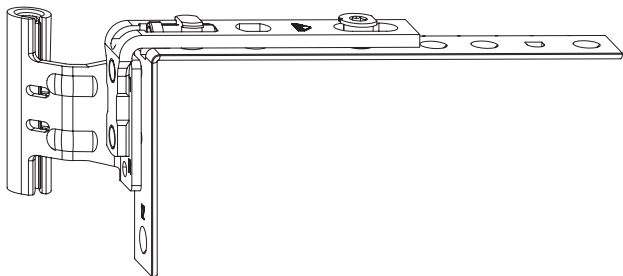
					Nº
12/18-9 12/20-9	20 20	12 12	Roto Sil Roto Sil	Left Right	391907 391905

For the compatible rebate stay guide, see → *from page 547*.



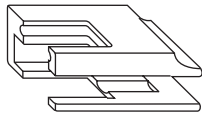
6.7 Rebate stay hinge

6.7.1 Hinge side T



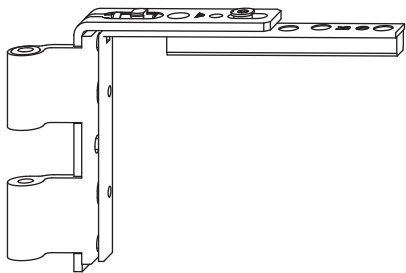
			Nº
12/18-9	Roto Sil	Left	810454
	Roto Sil	Right	810475
12/20-9	Roto Sil	Left	810486
	Roto Sil	Right	810487

For compatible stay bearings, see → *from page 561*.



	Nº
Packer for Tilt-Only sash	211180

6.7.2 Hinge side Power Hinge



					Nº
12/18-9 12/20-9	20	12	White aluminium	Left	613976
	20	12	White aluminium	Right	613977
	29	12	White aluminium	Left	562001
	29	12	White aluminium	Right	562002



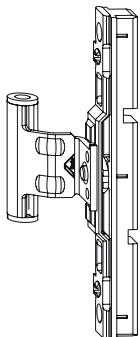
					Nº
12/18-13	29	12	White aluminium	Left	561999
12/20-13	29	12	White aluminium	Right	562000

For compatible stay bearings, see → *from page 562*.



6.8 Turn-Only/Tilt-Only rebate hinge

6.8.1 Hinge side T



					Nº
12/18-9	±3.0 mm	With compensation	Y	Roto Sil	809992
	–	Without compensation	Y	Roto Sil	810085
	±3.0 mm	With compensation	N	Roto Sil	810086
	–	Without compensation	N	Roto Sil	810087
12/20-9	±3.0 mm	With compensation	Y	Roto Sil	810090
	–	Without compensation	Y	Roto Sil	810091
	±3.0 mm	With compensation	N	Roto Sil	810092
	–	Without compensation	N	Roto Sil	810093
12/18-13	±3.0 mm	With compensation	Y	Roto Sil	810088
		With compensation	Y	White	810096
		With compensation	Y	Titanium	828691
	–	Without compensation	Y	Roto Sil	810089
		Without compensation	Y	White	810097
		Without compensation	Y	Titanium	828692
12/20-13	±3.0 mm	With compensation	Y	Roto Sil	810094
	–	Without compensation	Y	Roto Sil	810095
		Without compensation	Y	White	837126
		Without compensation	Y	Titanium	834357

For compatible stay bearings, see → *from page 557*.



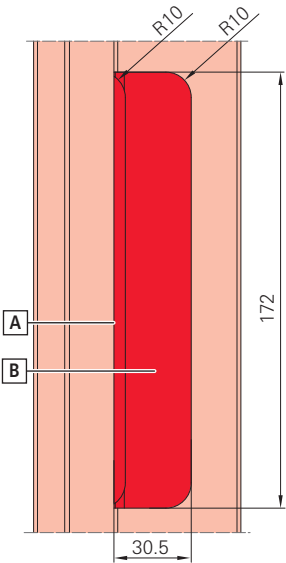
INFO

On Turn-Only sashes, Turn-Only/Tilt-Only rebate hinges must only be used as a supporting central hinge.



6.8.2 Hinge side Power Hinge

Installation and description

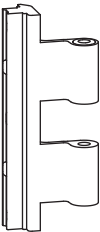


Assignment	Meaning
[A]	29 mm deep
[B]	8 mm deep



INFO

Rebate depth 20 without routing [A].



					
TU-ON rebate middle hinge	12/18-9	20	12	White aluminium	613973
	12/20-9	29	12	White aluminium	561996
	12/18-13 12/20-13	29	12	White aluminium	561995

Sash stay
Turn-Only/Tilt-Only rebate hinge
Hinge side Power Hinge



					Nº
TU-ON central bearing	12/18-9	20	12	White aluminium	613972
	12/18-13	29	12	White aluminium	561994
	12/20-9				
	12/20-13				

One stay-bearing pin is required for every TU-ON central bearing. For details, see → *from page 563*.



INFO
On Turn-Only sashes, Turn-Only/Tilt-Only rebate hinges must only be used as a supporting central hinge.



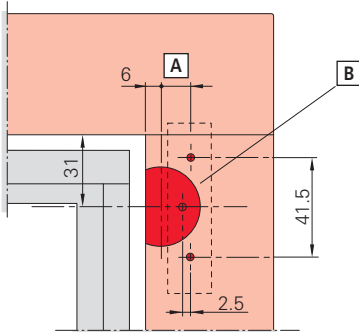
6.9 Stay bearing

6.9.1 Hinge side T

Installation and description

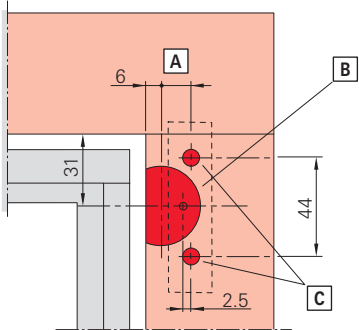
Standard

without supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	-

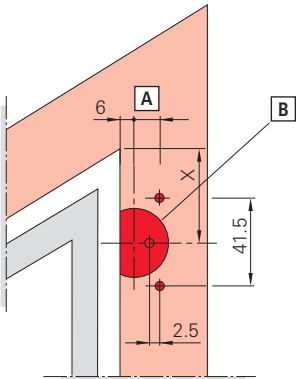
with supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	-
[C]	Drill hole Ø 7 mm, 5 mm deep	-

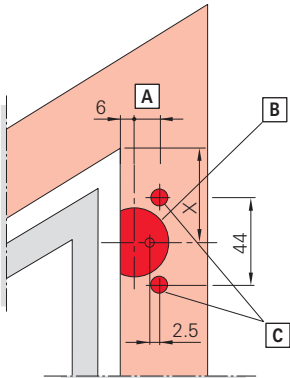


Standard – pitch window
without supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	-

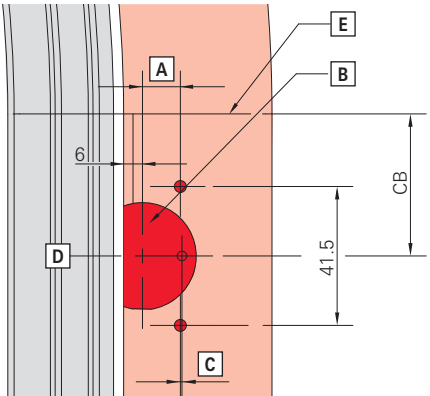
with supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	-
[C]	Drill hole Ø 7 mm, 5 mm deep	-



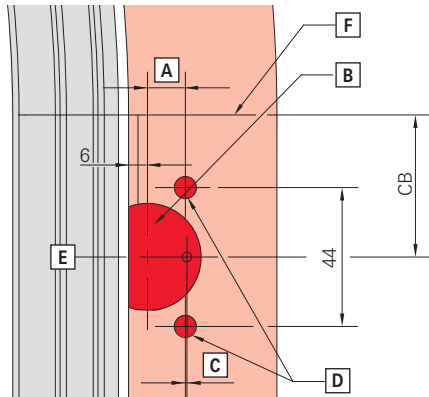
**Adjustable – arched window
without supporting pin**



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	–
[C]	0.5 mm	12/18-9, 12/18-13
	-1.5 mm	12/20-9, 12/20-13
[D]	Stay bearing centre	–
[E]	Start of arch	–
CB	Bearing distance	–
Tilt&Turn hardware for arched windows	45 mm	
Turn-Only hardware for arched windows	75 mm / 260 mm	
Tilt&Turn hardware for segmental arch windows	192 mm	
Turn-Only hardware for segmental arch windows	75 mm / 260 mm	



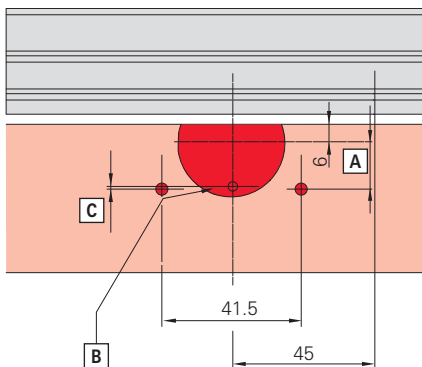
with supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	–
[C]	0.5 mm	12/18-9, 12/18-13
	1.5 mm	12/20-9, 12/20-13
[D]	Drill hole Ø 7 mm, 5 mm deep	–
[E]	Stay bearing centre	–
[F]	Start of arch	–
CB	Bearing distance	–
Tilt&Turn hardware for arched windows	45 mm	
Turn-Only hardware for arched windows	75 mm / 260 mm	
Tilt&Turn hardware for segmental arch windows	192 mm	
Turn-Only hardware for segmental arch windows	75 mm / 260 mm	

Adjustable – Tilt-Only sash

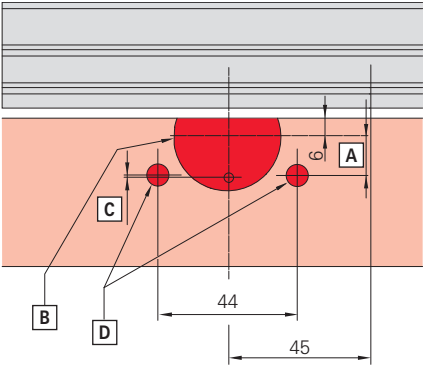
without supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	–
[C]	0.5 mm	12/18-9, 12/18-13
	-1.5 mm	12/20-9, 12/20-13

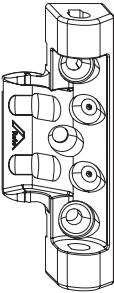


with supporting pin



Assignment	Meaning	System
[A]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[B]	Drill hole Ø 34 mm, 5 mm deep	-
[C]	0.5 mm	12/18-9, 12/18-13
	1.5 mm	12/20-9, 12/20-13
[D]	Drill hole Ø 7 mm, 5 mm deep	-

6.9.1.1 Standard



					Nº
12/18-9 12/18-13	max. 130 kg	–		Roto Sil	787199
	max. 150 kg	2 x Ø 7 mm		Roto Sil	787200
		2 x Ø 7 mm		White	787204
		2 x Ø 7 mm		Titanium	795031
12/20-9 12/20-13	max. 130 kg	–		Roto Sil	787201
	max. 150 kg	2 x Ø 7 mm		Roto Sil	787202
		2 x Ø 7 mm		White	787206
		2 x Ø 7 mm		Titanium	828687

One stay-bearing pin is required for every stay bearing. For details, see → from page 563.

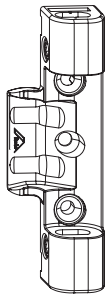
For compatible cover caps, see → 564.



INFO

With S.kg > 100 kg, fasten with five screws.

6.9.1.2 Laterally adjustable



				Nº
12/18-9 12/18-13	max. 100 kg	–	Roto Sil	810106
		–	White	828568
		–	Titanium	828707
		2 x Ø 7 mm	Roto Sil	810107
		2 x Ø 7 mm	White	810110
		2 x Ø 7 mm	Titanium	828690
12/20-9 12/20-13		–	Roto Sil	810108
		2 x Ø 7 mm	Roto Sil	810109
		2 x Ø 7 mm	White	810111
		2 x Ø 7 mm	Titanium	828656

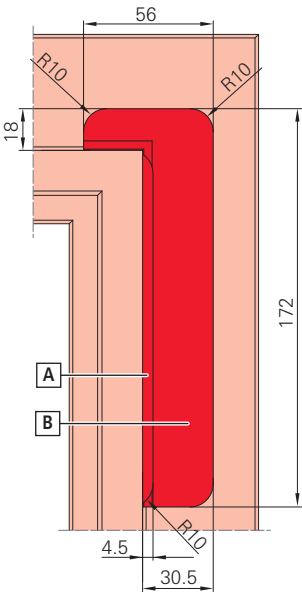
One stay-bearing pin is required for every stay bearing. For details, see → from page 563.

For compatible cover caps, see . → from page 565

6.9.2 Hinge side Power Hinge

6.9.2.1 Standard

Installation and description

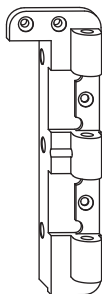


Assignment	Meaning
[A]	29 mm deep
[B]	8 mm deep



INFO

Rebate depth 20 without routing [A].



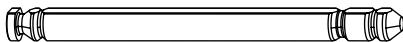
						Nº
12/18-9	max. 200 kg	20	12	White aluminium	Left	613974
12/18-13		20	12	White aluminium	Right	613975
12/20-9	max. 300 kg	29	12	White aluminium	Left	561997
12/20-13		29	12	White aluminium	Right	561998



One stay-bearing pin is required for every stay bearing. For details, see → *from page 563*.

6.9.3 Stay-bearing pins

Hinge side T



			Nº
Stay-bearing pin	71	Roto Sil	227354
	76	Roto Sil	2044833
	86	Roto Sil	834705



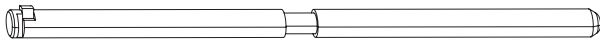
INFO

71 mm stay-bearing pin for stay bearing – standard

76 mm stay-bearing pin for stay bearing – standard (can only be used without a cover cap)

86 mm stay-bearing pin for stay bearing – laterally adjustable

Hinge side Power Hinge



			Nº
Stay-bearing pin	153	Roto Sil	562065

6.10 Cover caps

6.10.1 Hinge side T

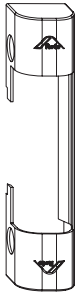
6.10.1.1 Stay bearing – standard



			Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	795000
	R01.2	Nickel silver	811713
	R01.3	Titanium	795001
	R03.1	Brass matt	795002
	R03.2	Brass, polished	811714
	R04.1	Grey brown	795003
	R04.3	Olive brown	811735
	R04.4	Black brown	795004
	R05.3	Medium bronze	795005
	R05.5	Bronze	795006
	R07.2	Traffic white	795007
	R07.3	Cream	811736
	SF	Special colour	828329



6.10.1.2 Stay bearing – laterally adjustable



			Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	810112
	R01.2	Nickel silver	828324
	R01.3	Titanium	810113
	R03.1	Brass matt	810114
	R03.2	Brass, polished	828325
	R04.1	Grey brown	810115
	R04.3	Olive brown	828326
	R04.4	Black brown	810116
	R05.3	Medium bronze	810117
	R05.5	Bronze	810118
	R07.2	Traffic white	810119
	R07.3	Cream	828327
	SF	Special colour	828328



6.10.1.3 Stay arm – standard



			Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	810215
	R01.2	Nickel silver	811737
	R01.3	Titanium	810216
	R03.1	Brass matt	810217
	R03.2	Brass, polished	811738
	R04.1	Grey brown	810218
	R04.3	Olive brown	811739
	R04.4	Black brown	810219
	R05.3	Medium bronze	810220
	R05.5	Bronze	810221
	R07.2	Traffic white	810222
	R07.3	Cream	811740
	SF	Special colour	828330





**Multipart**

Standard	570
Security	570
Thresholds	571
Can be cropped	572
Espagnolette	573

Floating mullion

See page	574
----------	-----

Reverse-action

See page	575
----------	-----

Hooks

Height of claw 17 mm	576
Height of claw 21 mm	577

Arched window

Standard	578
Horizontal arched component	579
Arched component, vertical	579

Comfort

See page	580
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7 Centre locks

7.1 Multipart

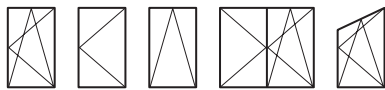
7.1.1 Standard

Couplable on one side



						Nº
N	400	1	E	–	Roto Sil	255280
	400	1	E	Cam position -4 mm	Roto Sil	593607
	600	1	E	–	Roto Sil	255281

Couplable on both sides



						Nº
Y	200	–	–	–	Roto Sil	308267
		–	–	LMD mount	Roto Sil	767639
		1	E	–	Roto Sil	450821
	400	–	–	–	Roto Sil	297858
		1	E	–	Roto Sil	280346
		1	E	–	Roto Sil	255282
	600	1	E	–	Roto Sil	255282
		1	E	–	Roto Sil	255282

7.1.2 Security

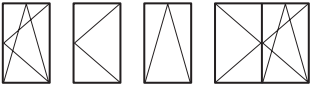
Couplable on one side



						Nº
N	200	1	P	–	Roto Sil	255284
		1	V	–	Roto Sil	296853
		1	P	–	Roto Sil	255285
	400	1	P	Cam position -4 mm	Roto Sil	593611
		1	V	–	Roto Sil	296854
		1	V	Cam position -4 mm	Roto Sil	593612
		1	P	–	Roto Sil	255286
	600	1	V	–	Roto Sil	296855
		1	V	–	Roto Sil	296855



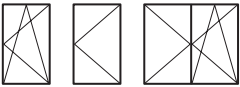
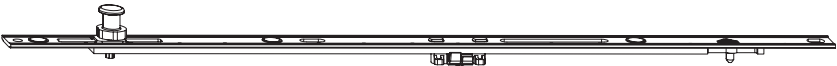
Couplable on both sides



						Nº
Y	130	1	V	–	Roto Sil	567456
		1	P	–	Roto Sil	622880
		1	V	Special packaging	Roto Sil	337708
	400	1	P	–	Roto Sil	622881
		1	V	Special packaging	Roto Sil	337710
	600	1	P	–	Roto Sil	622882
		1	V	–	Roto Sil	296852
		1	V	Special packaging	Roto Sil	337711

7.1.3 Thresholds

Couplable on one side



							Nº
N	200	1	V	7	Extended locking cam	Roto Sil	625214
	400	1	V	7	Extended locking cam	Roto Sil	625225
		1	V	10	Extended locking cam	Roto Sil	566651
	600	1	V	7	Extended locking cam	Roto Sil	625226



INFO
Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.

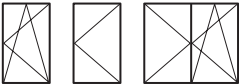


IMO 347



Centre locks
Multipart
Can be cropped

Couplable on both sides



							Nº
Y	200	1	V	10	Extended locking cam	Roto Sil	618552
	400	1	V	10	Extended locking cam	Roto Sil	618554
		1	V	12	Extended locking cam	Roto Sil	741408
	600	1	V	7	Extended locking cam	Roto Sil	625227
		1	V	10	Extended locking cam	Roto Sil	618553



INFO
Connecting thresholds

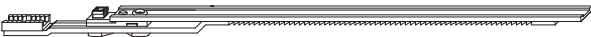
The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



IMO_347

7.1.4 Can be cropped

Can be cropped on one side



						Nº
Y	330	200	–	–	Roto Sil	489993
		200	1	V	Roto Sil	861349

Can be cropped on both sides

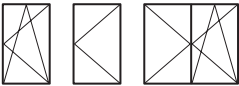


						Nº
Y	980	200 / 200	1	P	Roto Sil	610174



7.1.5 Espagnolette

Couplable on both sides



						Nº
Y	400	1	E	–	Roto Sil	260193
		1	V	–	Roto Sil	257598

Second opening sash



					Nº
Y	400	1	Second opening sash	Roto Sil	260195



7.2 Floating mullion



					Nº
Y	200	Bottom	1	Roto Sil	280342
		Top	1	Roto Sil	450822
	400	Bottom	1	Roto Sil	280343
		Top	1	Roto Sil	280345
	600	Bottom	1	Roto Sil	609059
		Top	1	Roto Sil	280331





7.3 Reverse-action

Couplable on one side



						Nº
N	400	To be used horizontally at the bottom	2	P	Roto Sil	330079

Couplable on both sides

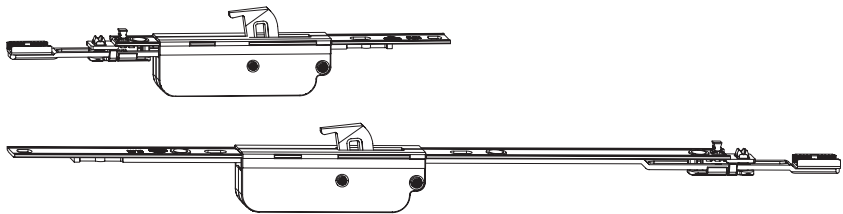


						Nº
Y	400	To be used horizontally at the bottom, below the handle height	2	P	Roto Sil	373968
		To be used horizontally at the top, above the handle height, hinge side	2	P	Roto Sil	377263



7.4 Hooks

7.4.1 Height of claw 17 mm



				Nº
Y	200	Horizontally at the bottom if a threshold is installed	Roto Sil	821929
	400	Horizontally at the bottom if a threshold is installed	Roto Sil	821995



INFO Connecting thresholds

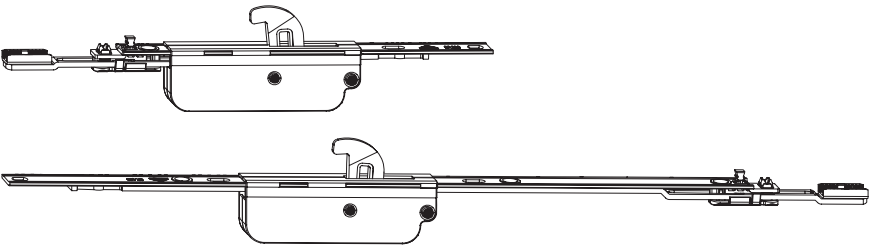
The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



IMO 347



7.4.2 Height of claw 21 mm



				Nº
Y	200	Vertically at the top of the espagnolette side, horizontally at the bottom; horizontally at the bottom if a threshold is installed	Roto Sil	365299
	400		Roto Sil	365300



INFO
Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



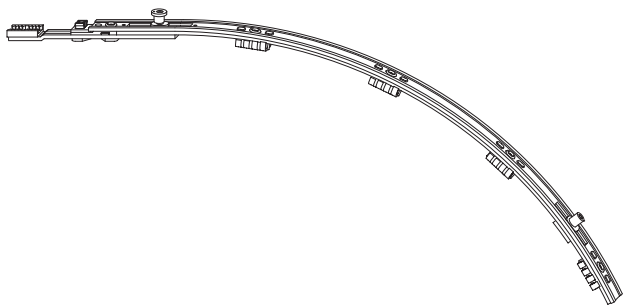
IMO 347



7.5 Arched window

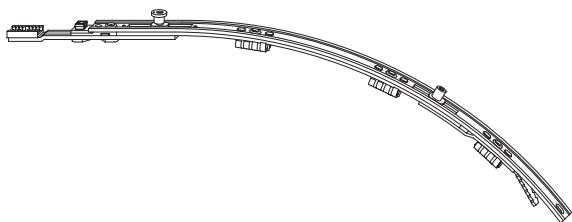
7.5.1 Standard

Couplable on one side



					Nº
N	750	2 / –	E / –	Roto Sil	245736
		1 / 1	V / E	Roto Sil	245735

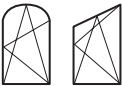
Couplable on both sides



					Nº
Y	590	2 / –	E / –	Roto Sil	245734
		1 / 1	V / E	Roto Sil	245733

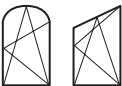


7.5.2 Horizontal arched component



						Nº
400 – 500	380	200	–	–	Roto Sil	812595
501 – 700	480	200	–	–	Roto Sil	245729
701 – 900	680	200	1	E	Roto Sil	245730
901 – 1100	880	200	1	E	Roto Sil	245731
1101 – 1300	1080	200	1	E	Roto Sil	245732

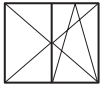
7.5.3 Arched component, vertical



						Nº
530 – 600	380	200	–	–	Roto Sil	812595
601 – 800	690	200	–	–	Roto Sil	774165
801 – 1000	890	200	1	E	Roto Sil	774174
1001 – 1200	1090	200	1	E	Roto Sil	774175
1201 – 1400	1290	200	1	E	Roto Sil	774176
1401 – 1600	1490	200	2	E	Roto Sil	774177



7.6 Comfort



						Nº
530 – 600	380	200	–	–	Roto Sil	812595
601 – 800	690	200	–	–	Roto Sil	774165
801 – 1000	890	200	1	E	Roto Sil	774174
1001 – 1200	1090	200	1	E	Roto Sil	774175
1201 – 1400	1290	200	1	E	Roto Sil	774176
1401 – 1600	1490	200	2	E	Roto Sil	774177











Frame clearances

Hinge side T	586
Hinge side C	587
Hinge side Designo (HA 13)	588
Hinge side Designo (HA 9)	588
Hinge side Royal	589

Corner hinges

Hinge side C (HA 13)	590
Hinge side Designo (HA 13)	590
Hinge side Designo (HA 9)	591
Hinge side Royal	591

Rebate corner hinges

Hinge side T	592
Hinge side Power Hinge	597

Pivot rests

Hinge side T	598
Hinge side C	599
Hinge side Designo (HA 13)	600
Hinge side Designo (HA 9)	601
Hinge side Royal	602
Hinge side Power Hinge	603

Load transfer

Hinge side C	605
Hinge side Designo (HA 13)	605
Hinge side Designo (HA 9)	605

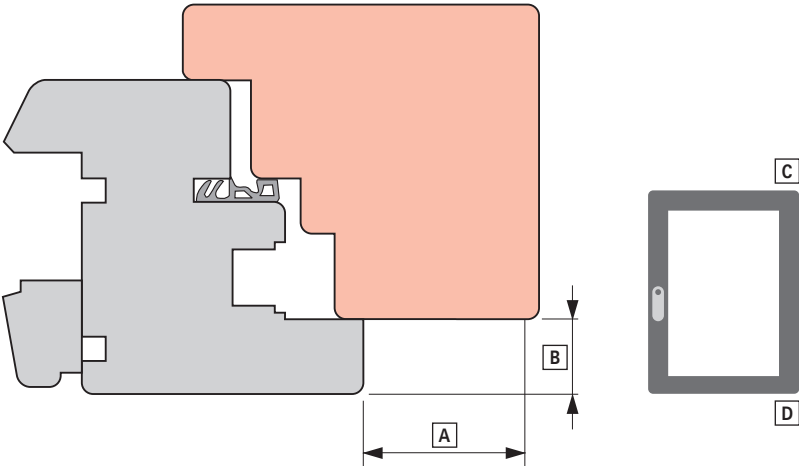
Cover caps

Hinge side T	606
--------------	-----

8 Corner hinges / pivot rests

8.1 Frame clearances

8.1.1 Hinge side T



Frame clearances with an 18 mm overlap width.

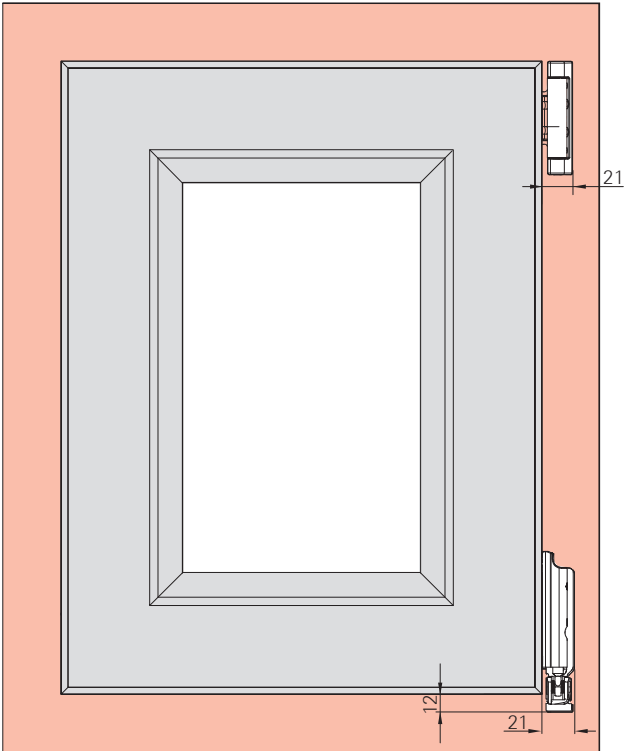
Sash weight	Opening angle	Frame clearance [A]	Overlap height [B]	Top [C]	Bottom [D]
150 kg	Approx. 180°	21.0	min. 16	0.0	12.0



INFO

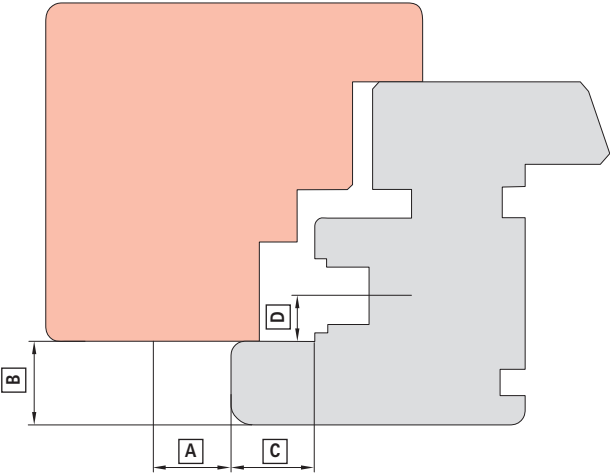
Clearances including cover caps.
 Opening angle up to 21 mm overlap height.

Sash weight 150 kg





8.1.2 Hinge side C



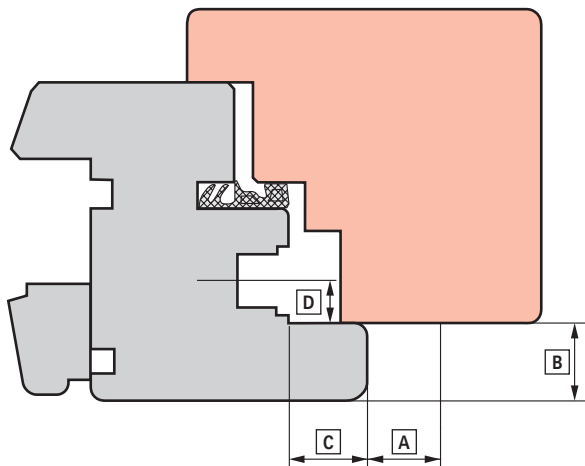
Frame clearances (in mm) with the sash opened from 0° to 90°.

Axis dimension [D]	Overlap height [B]	Overlap width [C]	Frame clearance [A]
13	16	18	3.5
	20	18	7.1
	24	18	10.8
	16	20	2.6
	20	20	6
	24	20	9.6
	16	22	2
	20	22	5
	24	22	8.4

The dimensions in the table apply to components in the delivery state (not adjusted).



8.1.3 Hinge side Designo (HA 13)

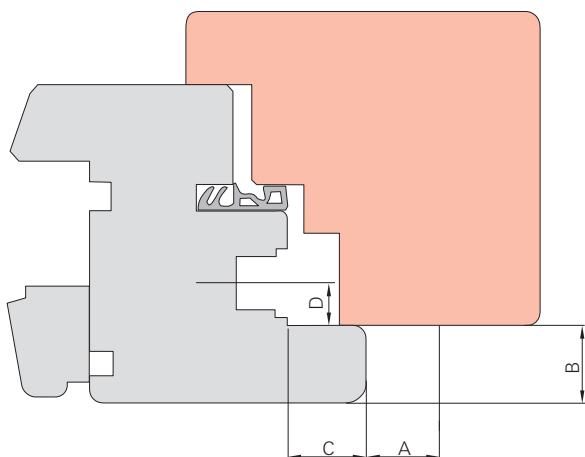


Frame clearances (in mm) with the window opened from 0° to 90°.

	Opening angle	Frame clearance [A]	Overlap height [B]	Overlap width [C]	Hardware axis [D]
Hinge side Designo (HA 13)	90°	6.4	16	18	13
	90°	8.8	20	18	13
	90°	11.7	24	18	13
	90°	6.1	16	20	13
	90°	8.4	20	20	13
	90°	11	24	20	13
	90°	5.9	16	22	13
	90°	8	20	22	13
	90°	10.5	24	22	13

The dimensions in the table apply to components in the delivery state (not adjusted).

8.1.4 Hinge side Designo (HA 9)



Frame clearances (in mm) with the sash opened from 0° to 90°.

Frame clearance [A]	Overlap height [B]	Overlap width [C]	Hardware axis [D]
16	16	18	9
18	18	18	9
20	20	18	9

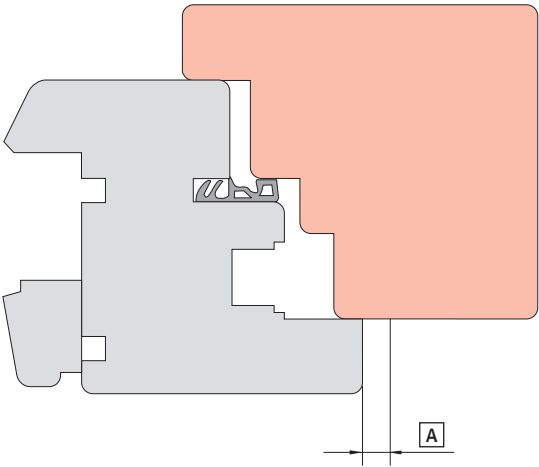
Formula for frame clearance with a 90° opening angle:

Frame clearance with a 90° opening angle = overlap height + 18 – overlap width

The frame clearance with a 100° opening angle depends on the depth of the reveal.



8.1.5 Hinge side Royal



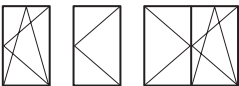
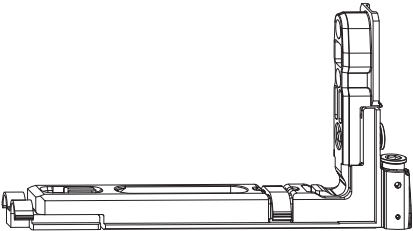
Frame clearances with a 20 mm overlap width.

Hardware axis	Sash weight	Opening angle	Frame clearance [A]
9	60 / 80 kg	approx. 90°	5.0
13	60 / 80 kg	approx. 90°	5.0



8.2 Corner hinges

8.2.1 Hinge side C (HA 13)

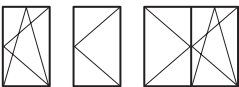
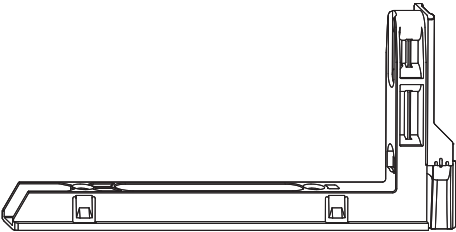


				Nº
12/18-13 12/20-13	12 mm	Roto Sil	Left	2005290
12/18-13 12/20-13		Roto Sil	Right	2005291

For compatible pivot rests, see → *from page 598*

For compatible load transfer components, see → *from page 605*

8.2.2 Hinge side Designo (HA 13)



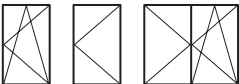
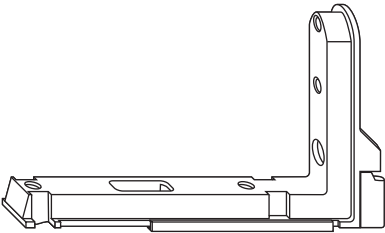
			Nº
Corner hinge – Designo hinge side (HA 13)	12/18-13 12/20-13	Roto Sil	634705

For compatible pivot rests, see → *from page 600.*

For compatible load transfer, see → *from page 605.*



8.2.3 Hinge side Designo (HA 9)

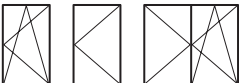
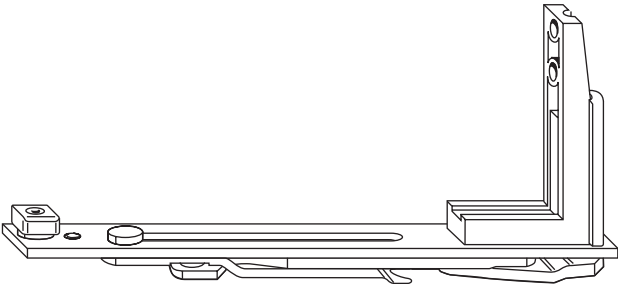


			Nº
12/18-9	Roto Sil	Left	477212
12/20-9	Roto Sil	Right	477211

For compatible pivot rests, see → *from page 601*.

For compatible load transfer components, see → *from page 605*.

8.2.4 Hinge side Royal



							Nº
Corner hinge – hinge side Royal	18	12	9	max. 80 kg	Roto Sil	Left	254023
		12	9	max. 80 kg	Roto Sil	Right	254025
	20	12	9 13	max. 80 kg	Roto Sil	Left	254026
		12	9 13	max. 80 kg	Roto Sil	Right	254028

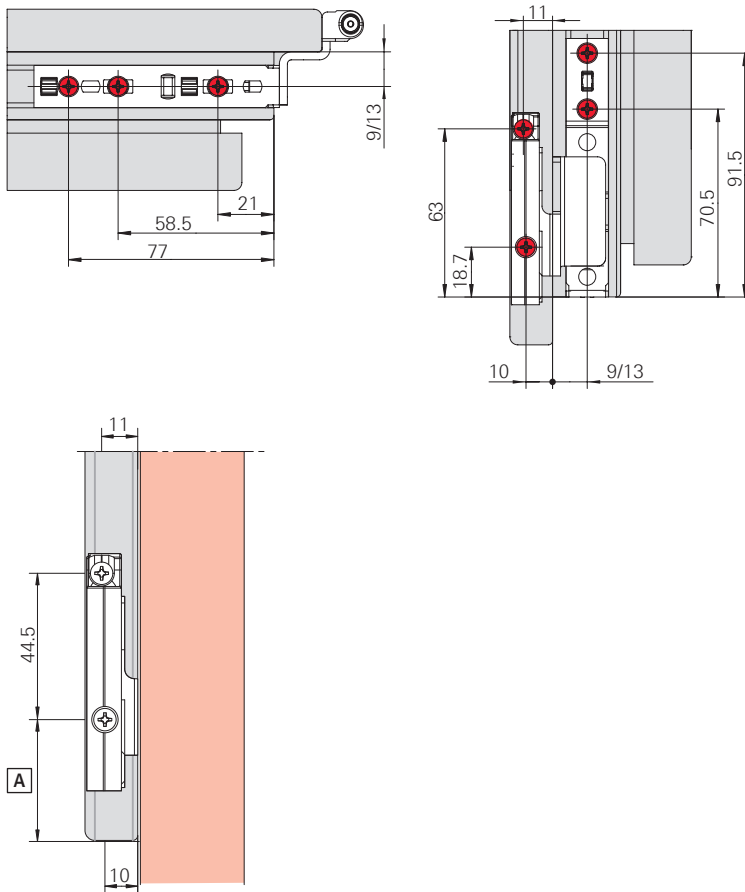
For compatible pivot rests, see → *from page 602*.



8.3 Rebate corner hinges

8.3.1 Hinge side T

Installation and description

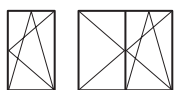
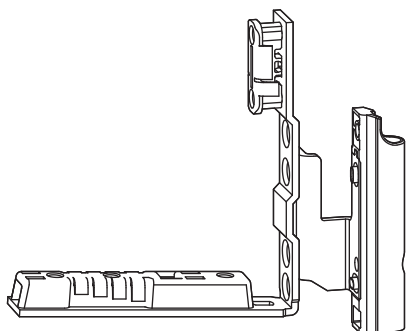


Assignment	Meaning	System
[A]	36.5 mm	Standard; 12/18-9, 12/18-13
	38.5 mm	Standard; 12/20-9, 12/20-13
	44.5 mm	Threshold (39.0); 12/18-9, 12/18-13
	46.5 mm	Threshold (39.0); 12/20-9, 12/20-13
	57.0 mm	Threshold (51.5); 12/18-9, 12/18-13
	59.0 mm	Threshold (51.5); 12/20-9, 12/20-13



8.3.1.1 With groove guidance

Zinc



							Nº
12/18-9	Standard	max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Left	815403
		max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Right	815404
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Left	815385
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Right	815386
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Left	828697
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Right	828698
12/18-13	Standard	max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Left	815357
		max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Right	815358
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Left	815389
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Right	815390
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Left	795026
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Right	795027
	Threshold (51.5)	max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Left	815435
		max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Right	815436
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Left	815437
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Right	815438
12/20-9	Standard	max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Left	828703
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Right	828704
	Standard	max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Left	815399
		max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Right	815400
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Left	815387
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Right	815388
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Left	828699
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Right	828700
12/20-13	Standard	max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Left	815361
		max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Right	815362
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Left	815395
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Right	815396
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Left	828701
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Right	828702
	Threshold (51.5)	max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Left	815439
		max. 150 kg	Height and gasket-compression adjustable	Y	Roto Sil	Right	815440
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Left	815441
		max. 150 kg	Height and gasket-compression adjustable	Y	White	Right	815442
	Standard	max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Left	828705
		max. 150 kg	Height and gasket-compression adjustable	Y	Titanium	Right	828706

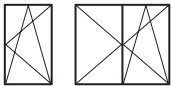
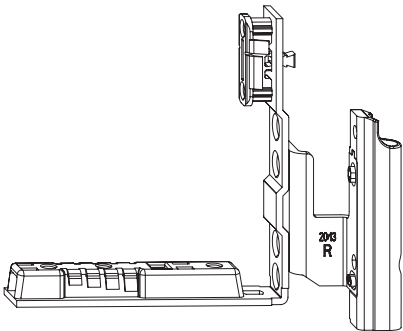
For compatible pivot rests, see → *from page 598*.

For compatible cover caps, see → *from page 606* and → *from page 606*.

Steel



INFO
 For increased requirements in public buildings like schools, we recommend installing turn restrictor 355 from an SRW of 650 mm.



							Nº
12/18-13	Standard	max. 150 kg	Height adjustable	Y	Roto Sil	Left	798436
		max. 150 kg	Height adjustable	Y	Roto Sil	Right	798437
12/20-13		max. 150 kg	Height adjustable	Y	Roto Sil	Left	798438
		max. 150 kg	Height adjustable	Y	Roto Sil	Right	798439

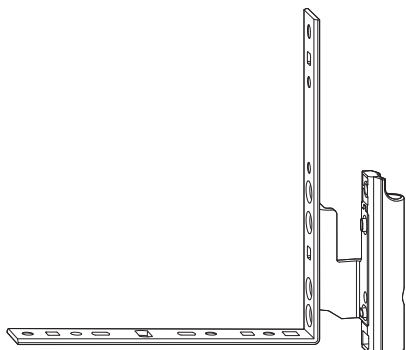
For compatible pivot rests, see → *from page 598*.

For compatible cover caps, see → *from page 606* and → *from page 606*.

For compatible turn restrictor 355, see .



8.3.1.2 Without groove guidance



INFO

Rebate corner hinge without groove guidance can be used universally for HA 9 and 13.

								Nº
12/18-9 12/18-13	Standard	max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Left	815405
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Right	815406
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	White	Left	815383
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	White	Right	815384
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Titanium	Left	828695
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Titanium	Right	828696
	Threshold (39.0)	max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Left	815375
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Right	815376
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	White	Left	863042
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	White	Right	863043
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Titanium	Left	863044
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Titanium	Right	890790
	Threshold (51.5)	max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Left	815393
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Right	815394

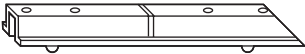


Corner hinges / pivot rests
Rebate corner hinges
Hinge side T

								Nº
12/20-9 12/20-13	Standard	max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Left	815401
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Right	815402
	Threshold (39.0)	max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Left	815407
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Right	815408
	Threshold (51.5)	max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Left	815391
		max. 150 kg	Height and gasket-compression adjustable	N	Optional support plate for groove guidance only possible with HA 9	Roto Sil	Right	815392
12/18-13	Threshold (39.0)	max. 150 kg	Height and gasket-compression adjustable	Y	Support plate for groove guidance required	Roto Sil	Left	815409
		max. 150 kg	Height and gasket-compression adjustable	Y	Support plate for groove guidance required	Roto Sil	Right	815410
12/20-13		max. 150 kg	Height and gasket-compression adjustable	Y	Support plate for groove guidance required	Roto Sil	Left	815411
		max. 150 kg	Height and gasket-compression adjustable	Y	Support plate for groove guidance required	Roto Sil	Right	815412

For compatible pivot rests, see → *from page 598*.

For compatible cover caps, see → *from page 606* and → *from page 606*.

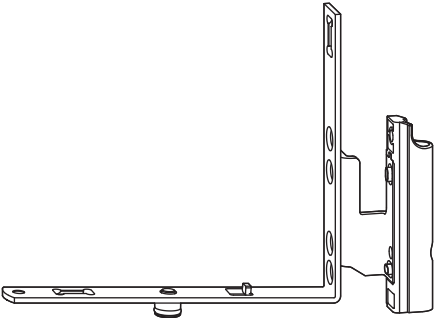


	Nº
Support for groove guidance	211374



INFO
The groove guidance can be added to these rebate corner hinges.

8.3.1.3 Arched windows / pitched windows



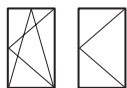
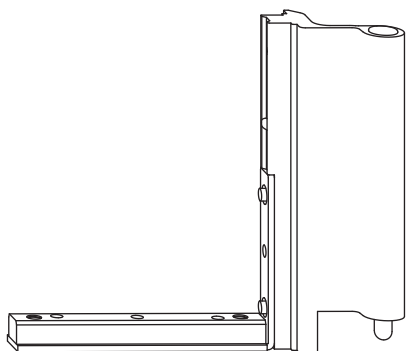


							Nº
12/18-9	Standard	max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Left	815365
		max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Right	815366
12/18-13	Threshold (51.5)	max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Left	815367
		max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Right	815368
		max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Left	815415
		max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Right	815416
12/20-13	Standard	max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Left	815369
		max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Right	815370
	Threshold (51.5)	max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Left	815425
		max. 80 kg	Height and gasket-compression adjustable	N	Roto Sil	Right	815426

For compatible pivot rests, see → *from page 598*.

For compatible cover caps, see → *from page 606* and → *from page 606*.

8.3.2 Hinge side Power Hinge



							Nº
12/18-9 12/20-9	Standard	max. 200 kg	20	12	White aluminium	Left	613970
	Standard	max. 200 kg	20	12	White aluminium	Right	613971
	Standard	max. 300 kg	29	12	White aluminium	Left	561988
	Standard	max. 300 kg	29	12	White aluminium	Right	561989
	Threshold	max. 200 kg	29	12	White aluminium	Left	622833
	Threshold	max. 200 kg	29	12	White aluminium	Right	622834
12/18-13 12/20-13	Standard	max. 300 kg	29	12	White aluminium	Left	561986
	Standard	max. 300 kg	29	12	White aluminium	Right	561987
	Threshold	max. 200 kg	29	12	White aluminium	Left	622831
	Threshold	max. 200 kg	29	12	White aluminium	Right	622832

For compatible pivot rests, see → *from page 603*.

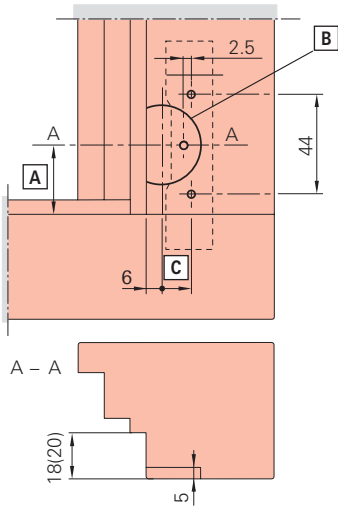


8.4 Pivot rests

8.4.1 Hinge side T

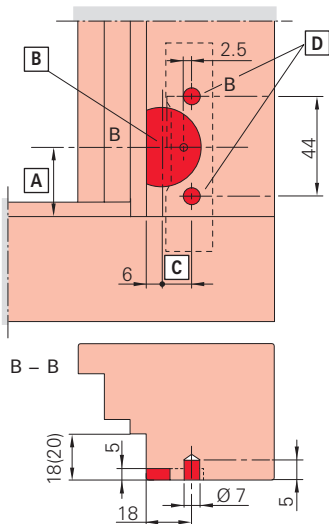
Installation and description

Without supporting pin

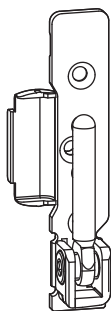


Assignment	Meaning	Variant
[A]	31.0 mm	Standard
	39.0 mm	Threshold (39.0)
	51.5 mm	Threshold (51.5)
[B]	Drill hole Ø 34 mm, 5 mm deep	–
[C]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13

With supporting pin



Assignment	Meaning	Variant
[A]	31.0 mm	Standard
	39.0 mm	Threshold (39.0)
	51.5 mm	Threshold (51.5)
[B]	Drill hole Ø 34 mm, 5 mm deep	–
[C]	12.0 mm	12/18-9, 12/18-13
	14.0 mm	12/20-9, 12/20-13
[D]	Drill hole Ø 7 mm, 5 mm deep	–



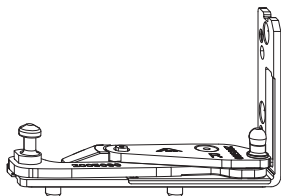
							Nº
12/18-9 12/18-13	max. 130 kg	Laterally adjustable	N	–	Roto Sil	Left	449764
		Laterally adjustable	N	–	Roto Sil	Right	449763
	max. 150 kg	Laterally adjustable	Y	2 x Ø 7 mm	Roto Sil	Left	449796
		Laterally adjustable	Y	2 x Ø 7 mm	Roto Sil	Right	449795
		Laterally adjustable	Y	2 x Ø 7 mm	White	Left	493343
		Laterally adjustable	Y	2 x Ø 7 mm	White	Right	493344
		Laterally adjustable	Y	2 x Ø 7 mm	Titanium	Left	795024
		Laterally adjustable	Y	2 x Ø 7 mm	Titanium	Right	795025
12/20-9 12/20-13	max. 130 kg	Laterally adjustable	N	–	Roto Sil	Left	450546
		Laterally adjustable	N	–	Roto Sil	Right	450545
	max. 150 kg	Laterally adjustable	Y	2 x Ø 7 mm	Roto Sil	Left	450548
		Laterally adjustable	Y	2 x Ø 7 mm	Roto Sil	Right	450547
		Laterally adjustable	Y	2 x Ø 7 mm	White	Left	734454
		Laterally adjustable	Y	2 x Ø 7 mm	White	Right	734455
		Laterally adjustable	Y	2 x Ø 7 mm	Titanium	Left	828688
		Laterally adjustable	Y	2 x Ø 7 mm	Titanium	Right	828689

For compatible rebate corner hinges, see → *from page 592*.

For compatible cover caps, see → *from page 607*.

8.4.2 Hinge side C

8.4.2.1 Standard



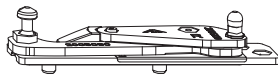
						Nº
	24	12	max. 180 kg	Roto Sil	Left	2005286
		12	max. 180 kg	Roto Sil	Right	2005287
	30	12	max. 180 kg	Roto Sil	Left	2008871
		12	max. 180 kg	Roto Sil	Right	2008872

For compatible corner hinges, see → *from page 590*

For compatible load transfer, see → *from page 605*



8.4.2.2 Triple-sashed windows (centre sash)

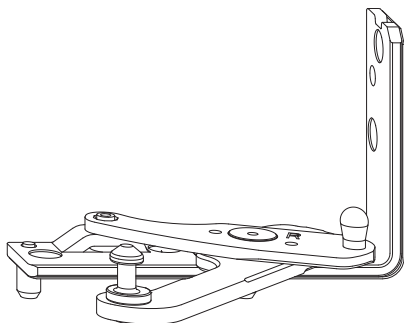


							Nº
Pivot rest – centre sash		24	12	max. 100 kg	Roto Sil	Left	2008933
					Roto Sil	Right	2008934

For compatible corner hinges, see → *from page 590*

8.4.3 Hinge side Designo (HA 13)

8.4.3.1 Standard



								Nº
Pivot rest Designo (HA 13)		24	12	max. 150 kg	13	Roto Sil	Left	563737
			12	max. 150 kg	13	Roto Sil	Right	563736
		30	12	max. 150 kg	13	Roto Sil	Left	570080
			12	max. 150 kg	13	Roto Sil	Right	570079

For compatible corner hinges, see → *from page 590*.

For compatible load transfer, see → *from page 605*.

8.4.3.2 Pivot rest cover



				Nº
Pivot rest cover – Designo hinge side		Clampable	Left	799664
			Right	799789

8.4.3.3 Triple-sashed windows (centre sash)



									Nº
Pivot rest Designo (HA 13)		24	12	max. 80 kg	13	Also rebate depth 30	Roto Sil	Left	738586
			12	max. 80 kg	13	Also rebate depth 30	Roto Sil	Right	738585

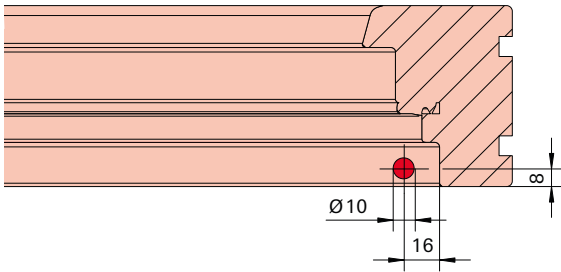
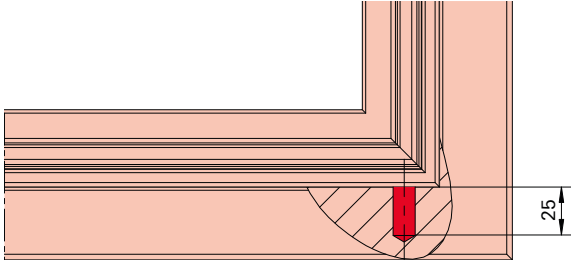


For compatible corner hinges, see → *from page 590.*

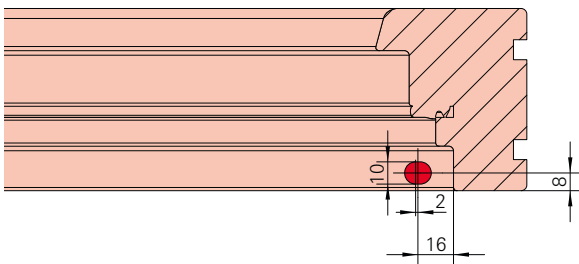
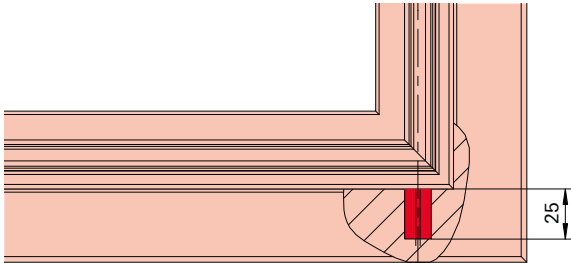
8.4.4 Hinge side Designo (HA 9)

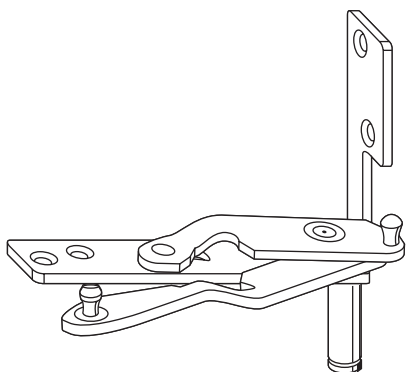
Installation and description

Drilling dimensions on the glued frame



Drilling dimensions on the loose frame piece





						Nº
20	12	max. 150 kg	9	Roto Sil	Left	477025
	12	max. 150 kg	9	Roto Sil	Right	476814

For compatible corner hinges, see → *from page 591*.

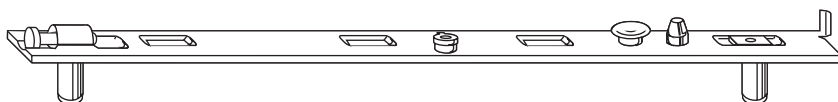
For compatible load transfer components, see → *from page 605*.



INFO

The drive-in sleeve can also be used as an alternative for a sash weight of up to 130 kg.

8.4.5 Hinge side Royal



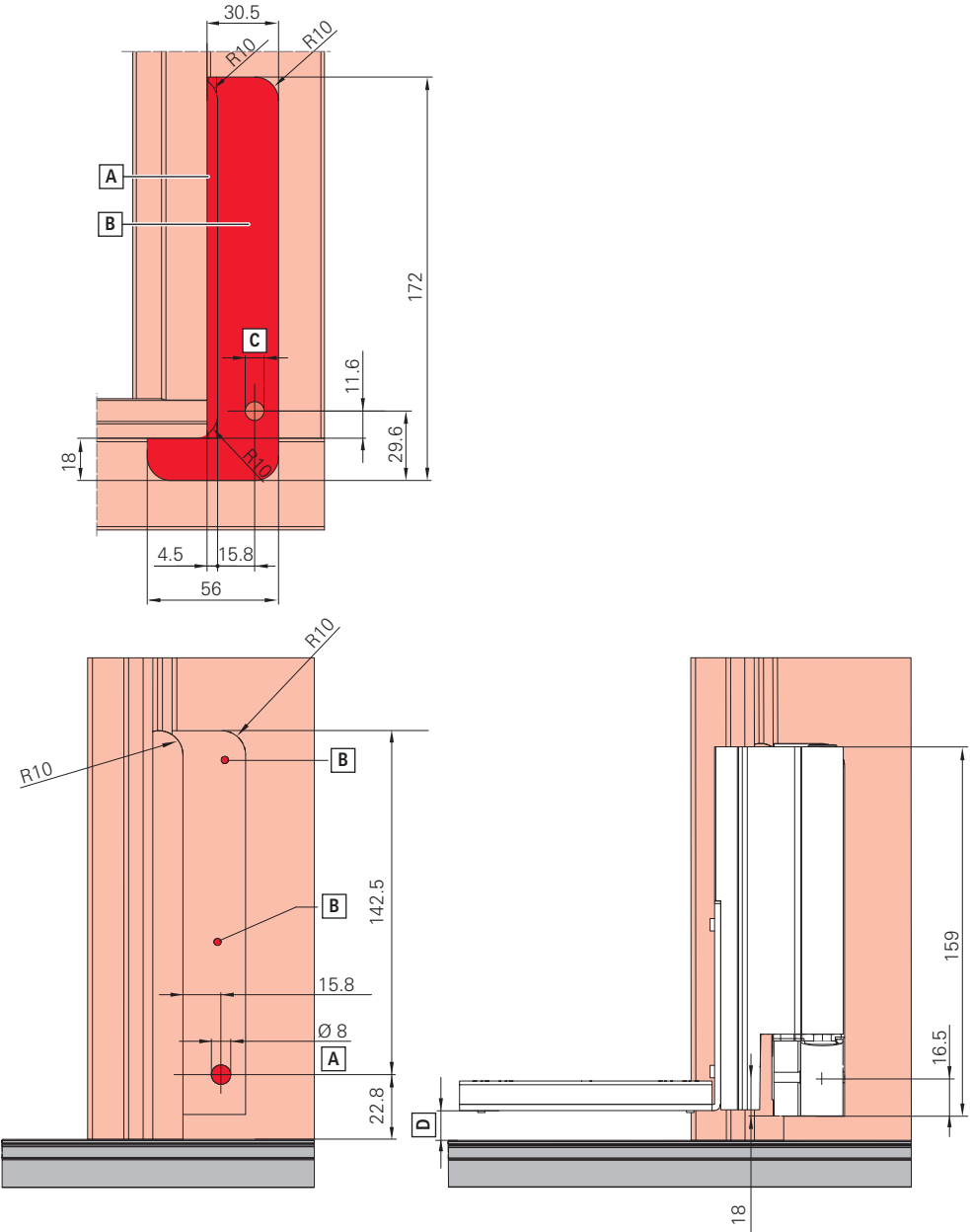
							Nº
Pivot rest Royal	18	12	max. 80 kg	9	Roto Sil	Left	257123
		12	max. 80 kg	9	Roto Sil	Right	280425
	20	12	max. 80 kg	9 13	Roto Sil	Left	254035
		12	max. 80 kg	9 13	Roto Sil	Right	254038

For compatible corner hinges, see → *from page 591*.



8.4.6 Hinge side Power Hinge

Installation and description



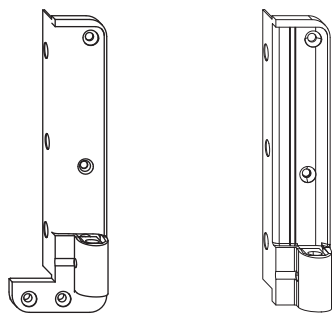
Assignment	Meaning
[A]	29 mm deep
[B]	8 mm deep
[C]	Drill hole Ø 8 mm, 29 mm deep

Assignment	Functional clearance	Rebate corner hinge, standard Threshold pivot rest	Rebate corner hinge for threshold Threshold pivot rest
[D]	4 – 5	16.5 mm	34.5 mm
	7 – 8	19.5 mm	37.5 mm
	10 – 11	22.5 mm	40.5 mm



INFO
Rebate depth 20 without routing [A].

Corner hinges / pivot rests
Pivot rests
 Hinge side Power Hinge



							Nº
12/18-9	Standard	20	12	max. 200 kg	White aluminium	Left	613968
12/20-9	Standard	20	12	max. 200 kg	White aluminium	Right	613969
12/18-9	Standard	29	12	max. 300 kg	White aluminium	Left	561982
12/18-13	Standard	29	12	max. 300 kg	White aluminium	Right	561983
12/20-9	Threshold	29	12	max. 200 kg	White aluminium	Left	561984
12/20-13	Threshold	29	12	max. 200 kg	White aluminium	Right	561985

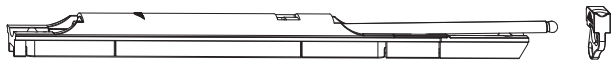
For compatible rebate corner hinges, see → *from page 597*.





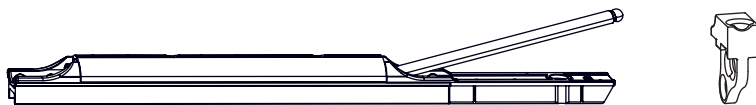
8.5 Load transfer

8.5.1 Hinge side C



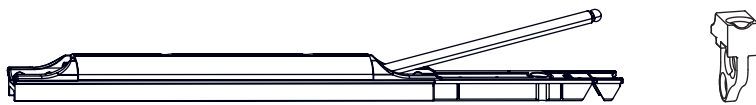
			Nº
Frame component	- kg	Roto Sil	2005292
Sash component	- kg	Roto Sil	2005293

8.5.2 Hinge side Designo (HA 13)



			Nº
Sash component	- kg	Roto Sil	567972
Frame component	- kg	Roto Sil	565254

8.5.3 Hinge side Designo (HA 9)



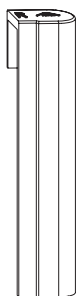
			Nº
Sash component	- kg	Roto Sil	603079
Frame component	- kg	Roto Sil	603215



8.6 Cover caps

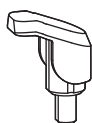
8.6.1 Hinge side T

8.6.1.1 Rebate corner hinge – standard



				Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	Left	824773
			Right	824774
	R01.2	Nickel silver	Left	824793
			Right	824794
	R01.3	Titanium	Left	824785
			Right	824786
	R03.1	Brass matt	Left	824805
			Left	824806
	R03.2	Brass, polished	Left	824791
			Right	824792
	R04.1	Grey brown	Left	824801
			Right	824802
	R04.3	Olive brown	Left	824795
			Right	824796
	R04.4	Black brown	Left	824787
			Right	824788
	R05.3	Medium bronze	Left	824797
			Right	824798
	R05.5	Bronze	Left	824803
			Right	824804
	R07.2	Traffic white	Left	824789
			Right	824790
	R07.3	Cream	Left	824814
			Right	824841
	SF	Special colour	Left	824799
			Right	824800

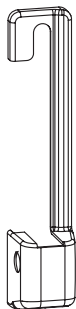
8.6.1.2 Rebate corner hinge – plug



			Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	815443
	R01.3	Titanium	799288
	R07.2	Traffic white	815444

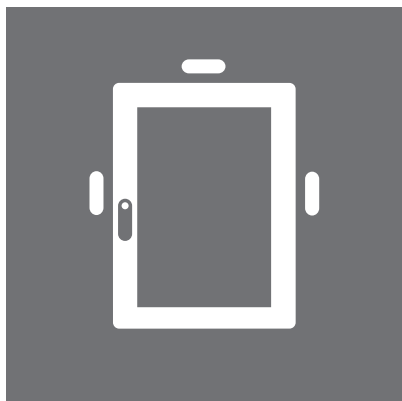


8.6.1.3 Pivot rest – standard



				Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	Left	457669
			Right	457670
	R01.2	Nickel silver	Left	491850
			Right	491851
	R01.3	Titanium	Left	457671
			Right	457672
	R03.1	Brass matt	Left	642363
			Right	642364
	R03.2	Brass, polished	Left	491854
			Right	491855
	R04.1	Grey brown	Left	491856
			Right	491857
	R04.3	Olive brown	Left	491858
			Right	491859
	R04.4	Black brown	Left	457673
			Right	457674
	R05.3	Medium bronze	Left	811461
			Right	811462
	R05.5	Bronze	Left	637888
			Right	637889
	R07.2	Traffic white	Left	457689
			Right	457690
	R07.3	Cream	Left	824945
			Right	824946
	SF	Special colour	Left	491860
			Right	491861









Tilt strikers

Standard	612
TiltFirst (TF)	614
Thresholds	615

Strikers

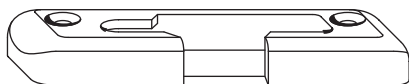
Standard	616
Security	616
Double-leafed door	619
Floating mullion	620
Hook	621

9 Locking components

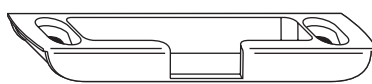
9.1 Tilt strikers

9.1.1 Standard

9.1.1.1 Zinc



A



B

Assignment	Meaning
[A]	Tilt striker, screw-on
[B]	Tilt striker, to be routed in

												Nº
–	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	–	with packer	–	13	Y	Roto Sil	Left	261943
		12	Screw-on	N	–	with packer	–	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.

9.1.1.2 Steel





									Nº
–	18	4	Can be routed in	N	–	9	Y	Roto Sil	856829
Eurofalz	18	12	Screw-on	N	–	9	Y	Roto Sil	856827
		12	Screw-on	Y	2 x Ø 8 mm	9	Y	Roto Sil	2027171
		12	Screw-on	N	–	9	Y	Roto Sil	856824
	20	12	Screw-on	N	–	9	Y	Roto Sil	856825
		12	Screw-on	Y	2 x Ø 8 mm	9	Y	Roto Sil	856825
	24	12	Screw-on	N	–	13	Y	Roto Sil	858213
		12	Screw-on	Y	2 x Ø 8 mm	13	Y	Roto Sil	856833
	30	12	Screw-on	N	–	13	Y	Roto Sil	856835
		12	Screw-on	Y	2 x Ø 8 mm	13	Y	Roto Sil	856834
Euronut 7/8	18	12	Screw-on	N	–	9	Y	Roto Sil	856828
	20	12	Screw-on	N	–	9	Y	Roto Sil	856826



INFO
Other versions are available upon request.

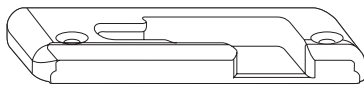


Locking components

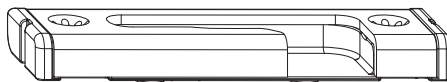
Tilt strikers

TiltFirst (TF)

9.1.2 TiltFirst (TF)



A



B

Assignment	Meaning
[A]	Zinc
[B]	Steel, with PVC packer

											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	Made from steel, with PVC packer	13	Y	Roto Sil	Left	856830
		12	Screw-on	Y	2 x Ø 8 mm	Made from steel, with PVC packer	13	Y	Roto Sil	Right	856831
		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
		12	Screw-on	Y	2 x Ø 8 mm	Made from steel, with PVC packer	13	Y	Roto Sil	Left	2021656
		12	Screw-on	Y	2 x Ø 8 mm	Made from steel, with PVC packer	13	Y	Roto Sil	Right	2021655
		12	Screw-on	N	–	Made from steel, with PVC packer	13	Y	Roto Sil	Left	2021659
		12	Screw-on	N	–	Made from steel, with PVC packer	13	Y	Roto Sil	Right	2021658
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.



9.1.3 Thresholds



INFO

Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.

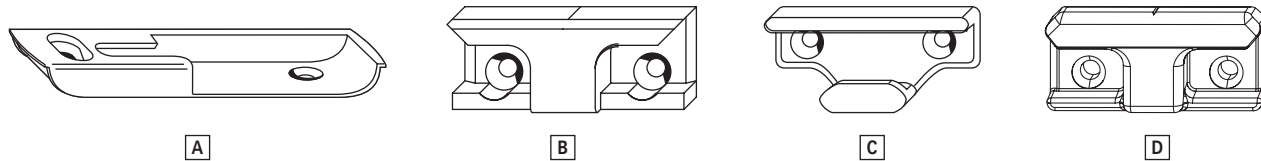


IMO 347



9.2 Strikers

9.2.1 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

The reinforced version is not compatible with the existing jig system.

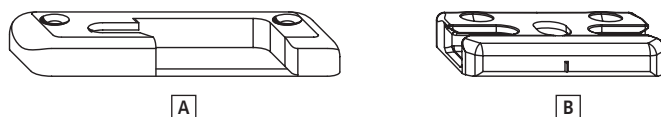


INFO

Other versions are available upon request.

9.2.2 Security

9.2.2.1 Zinc





Assignment	Meaning
[A]	Striker, right / left
[B]	Striker, symmetrical

[B] Symmetrical striker can only be used with a 13 mm hardware axis and from a rebate depth of 30.

Lever-operated espagnolette Standard: a left second opening sash with asymmetrical strikers always requires right strikers horizontally at the bottom – and vice versa.

											Nº
–	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	260388
		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



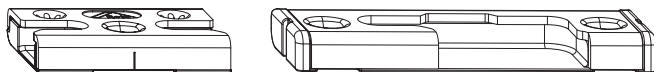
Zinc security strikers for hardware axis 9 only permitted up to RC 1.



INFO

Other versions are available upon request.

9.2.2.2 Steel



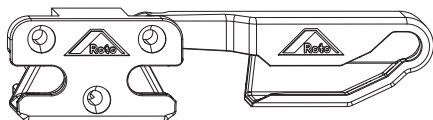
										Nº
Eurofalz	18	4	Can be routed in	N	–	9	Y	Roto Sil	Left	856987
		4	Can be routed in	N	–	9	Y	Roto Sil	Right	856986
		12	Screw-on	N	–	9	N	Roto Sil	Left	2021662
		12	Screw-on	N	–	9	N	Roto Sil	Right	2021663
		12	Screw-on	N	–	9	Y	Roto Sil	Left	856982
		12	Screw-on	N	–	9	Y	Roto Sil	Right	856981
		12	Screw-on	Y	2 x Ø 8 mm	9	N	Roto Sil	Left	2034468
		12	Screw-on	Y	2 x Ø 8 mm	9	N	Roto Sil	Right	2034467
		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	N	Roto Sil	Right	2021668
		12	Screw-on	N	–	9	N	Roto Sil	Left	2021669
		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	N	Roto Sil	Left	2034466
		12	Screw-on	Y	2 x Ø 8 mm	9	N	Roto Sil	Right	2034465
		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.

9.2.2.3 Tilt ventilation (TiltSafe)

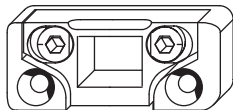


										Nº
Eurofalz	30	12	Screw-on	N	–	13	N	Roto Sil	Left	797026
		12	Screw-on	N	–	13	N	Roto Sil	Right	797027

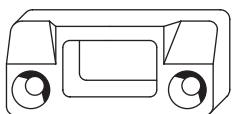


9.2.3 Double-leafed door

9.2.3.1 1-hole



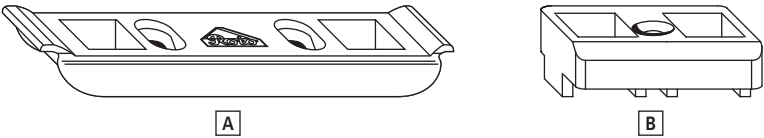
										
Eurofalz	18	12	Screw-on	N	–	Point of entry 4.3 mm, for opposite hardware groove	Gasket compres- sion adjustable	9	Roto Sil	260450
		12	Screw-on	Y	2 x Ø 8 mm	Point of entry 4.3 mm, for opposite hardware groove	Gasket compres- sion adjustable	9	Roto Sil	260451
	20	12	Screw-on	N	–	Point of entry 4.3 mm, for opposite hardware groove	Gasket compres- sion adjustable	9	Roto Sil	260452
		12	Screw-on	Y	2 x Ø 8 mm	Point of entry 4.3 mm, for opposite hardware groove	Gasket compres- sion adjustable	9	Roto Sil	260453
		Euronut 7/8	12	Screw-on	N	–	Point of entry 6.3 mm, for floating- mullion sash Euro- groove 7 / 8	Gasket compres- sion adjustable	9	Roto Sil



										
Eurofalz	18	12	Screw-on	N	–	Point of entry 4.3 mm, for opposite hardware groove	–	9	Roto Sil	260455
		12	Screw-on	Y	2 x Ø 8 mm	Point of entry 4.3 mm, for opposite hardware groove	–	9	Roto Sil	257825
		12	Screw-on	N	–	Point of entry 6.3 mm, for floating-mullion sash Euro-groove 7 / 8	–	9	Roto Sil	606757
	20	12	Screw-on	N	–	Point of entry 4.3 mm, for opposite hardware groove	–	9	Roto Sil	260456
		12	Screw-on	Y	2 x Ø 8 mm	Point of entry 4.3 mm, for opposite hardware groove	–	9	Roto Sil	257826
	24	12	Screw-on	N	–	Point of entry 8.3 mm, for opposite hardware groove	–	13	Roto Sil	261938
		12	Screw-on	Y	2 x Ø 8 mm	Point of entry 8.3 mm, for opposite hardware groove	–	13	Roto Sil	261940
Euronut 7/8	18	12	Screw-on	N	–	Point of entry 6.3 mm, for floating-mullion sash Euro-groove 7 / 8	–	9	Roto Sil	606756



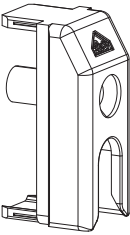
9.2.3.2 2-hole



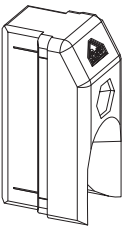
Assignment	Meaning
[A]	Can be routed in
[B]	Euro-groove 7/8

								Nº
–	18	4	Can be routed in	Point of entry 4.3 mm, for opposite hardware groove	–	9	Roto Sil	344970
		4	Can be routed in	Point of entry 6.3 mm, for floating-mullion sash Euro-groove 7 / 8	–	9	Roto Sil	344971
	25	5	Can be routed in	Point of entry 8.3 mm, for opposite hardware groove	–	13	Roto Sil	627992
Euronut 7/8	18	12	Screw-on	Point of entry 4.3 mm, for opposite hardware groove	–	9	Roto Sil	374261

9.2.4 Floating mullion



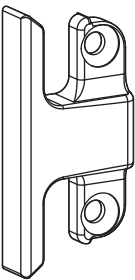
		Nº
V cam	Roto Sil	260359



		Nº
Striker for opposite hardware groove	Roto Sil	328253



			Nº
Screw-on striker for lever-operated espagnolette (Euro-groove 7 / 8)		Roto Sil	382825



			Nº
Screw-on striker for lever-operated espagnolette (variable handle height)		Roto Sil	339395

9.2.5 Hook



							Nº
–	18	4	Can be routed in	–	9	Roto Sil	259307



							Nº
Euronut 7/8	18	12	Can be routed in	±1.5 mm	9	Roto Sil	378995

Locking components
Strikers
Hook



							
Eurofalz	18	12	Can be routed in	±1.5 mm	9	Roto Sil	378971











Additional stay arms

Standard	628
TiltFirst (TF)	629
Arched window	629

Tilt stays

Frame components	630
Sash components	630
Sets	630
Mounting screw	631

Arrestable brake stays

Frame components	633
Sash components	634

Sash lifter

See page	635
----------	-----

Restrictor and cleaning stays

Frame components	636
Sash components	636
Packers	636

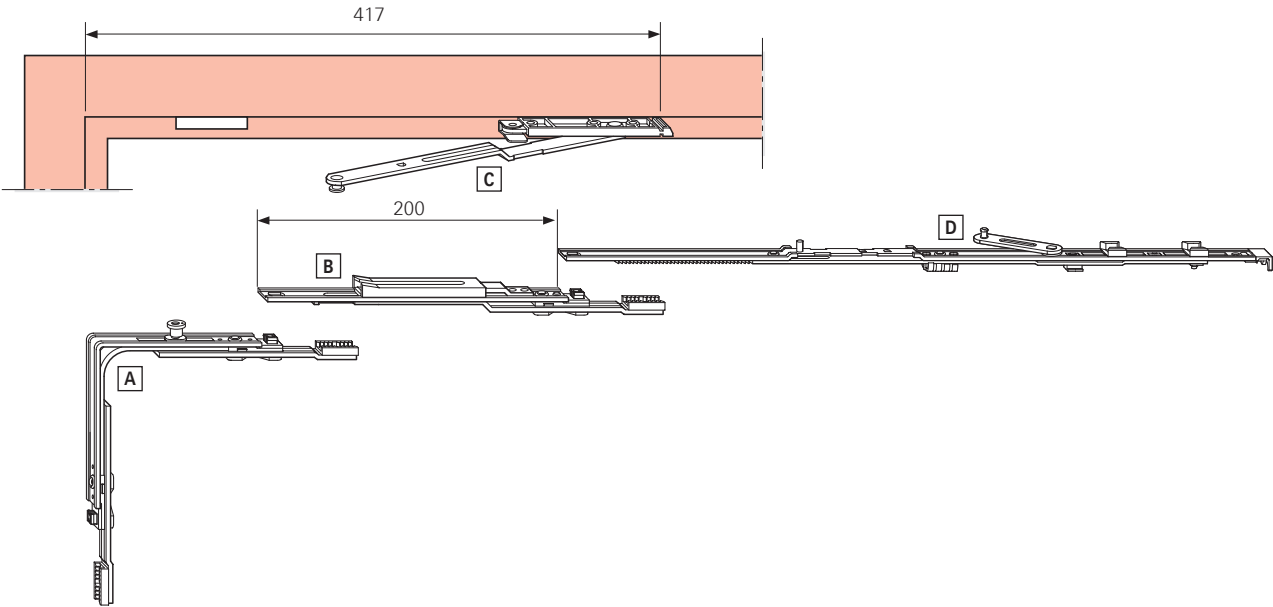
Arrestable ventilation stays

Frame components	638
Sash components	638

10 Scissor stays

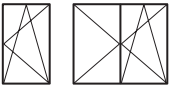
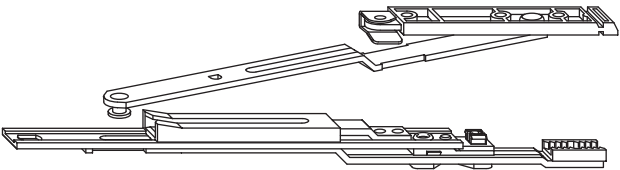
10.1 Additional stay arms

Installation and description



Assignment	Meaning
[A]	Corner drive
[B]	Additional stay arm, sash component
[C]	Additional stay arm, frame component
[D]	Stay guide

10.1.1 Standard

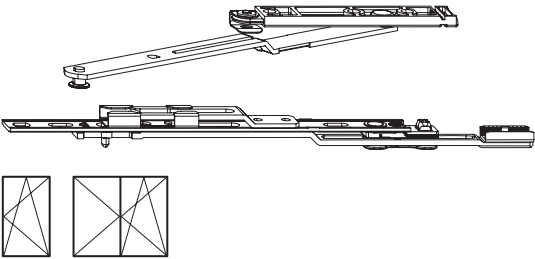


			Nº
Frame and sash component	200	Roto Sil	255237

For the compatible packer, see → from page 669.



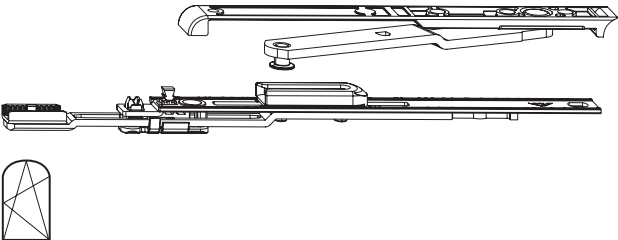
10.1.2 TiltFirst (TF)



			Nº
Frame and sash component	200	Roto Sil	292022

For the compatible support plate, see → from page 669.

10.1.3 Arched window



		Nº
Frame and sash component	Roto Sil	245764



10.2 Tilt stays

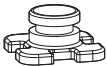
10.2.1 Frame components



		Nº
Frame component	Roto Sil	451477

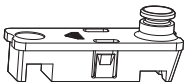
For the compatible packer, see → *from page 630*.

10.2.2 Sash components



		Nº
Sash component for floating-mullion installation	Roto Sil	451432

For the mounting screw required for floating-mullion installation, see → *from page 631*.



		Nº
Sash component for hardware groove	Roto Sil	451431

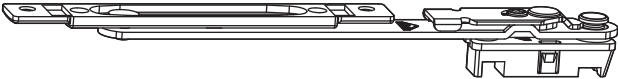
10.2.3 Sets



		Nº
Floating-mullion installation	Roto Sil	482823

For the mounting screw required for floating-mullion installation, see → *from page 631*.

For the compatible packer, see → *from page 669*.



		Nº
Hardware groove	Roto Sil	494389

10.2.4 Mounting screw

	Nº
Screw for installation on corner drive	567995



10.3 Arrestable brake stays

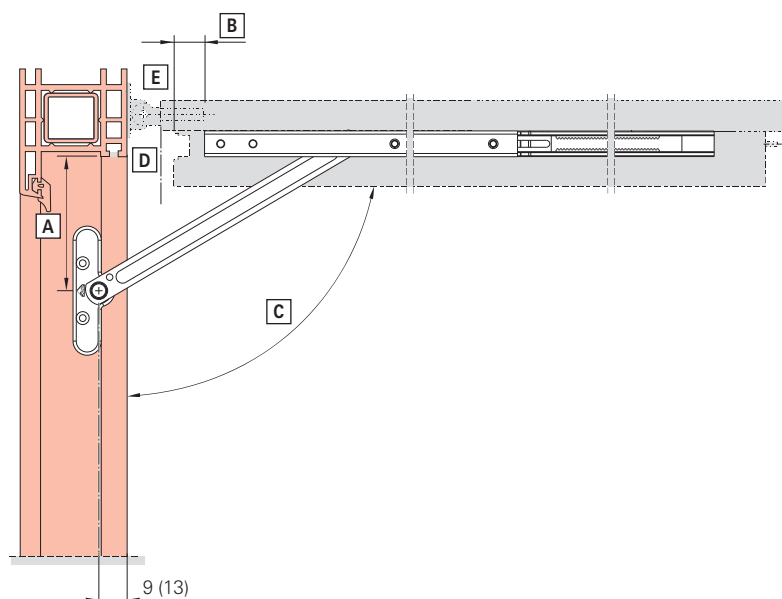


INFO

Comfort component

Not a security component in accordance with DIN EN 13126-5

Installation and description



Assignment	Meaning
[A]	Frame dimension
[B]	Sash dimension
[C]	90° opening angle
[D]	Overlap edge
[E]	Sash rebate edge

Hinge side T

Frame dimension [A]	Sash dimension [B]	Sash components	
115 mm	10 mm	Scissor stay no. 1	Arm no. 1
130 mm	125 mm	Scissor stay no. 1	Arm no. 2
245 mm	240 mm	Scissor stay no. 2	Arm no. 3
245 mm	240 mm	Scissor stay no. 3	Arm no. 3

For compatible sash components, see → *from page 634*.

Hinge side Designo (HA 9 / HA 13)

Frame dimension [A]	Sash dimension [B]	Sash components	
135 mm	130 mm	Scissor stay no. 1	Arm no. 2

For compatible sash components, see → *from page 634*.

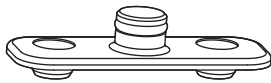


INFO

Only the sash lifter and not the lifting mishandling device can be used in conjunction with the arrestable brake stay.



10.3.1 Frame components



				Nº
Supporting pin	–	–	Roto Sil	337754
Euro-rebate	20	12	Roto Sil	491798



10.3.2 Sash components



	 #			Nº
Scissor stay no. 1	–	–	Roto Sil	486820
Scissor stay no. 2	–	–	Roto Sil	632993
Scissor stay no. 3	1	V	Roto Sil	633026
Arm no. 1	–	–	Roto Sil	486821
Arm no. 2	–	–	Roto Sil	492757
Arm no. 3	–	–	Roto Sil	632994
Spring stop	–	–	Roto Sil	491797





10.4 Sash lifter

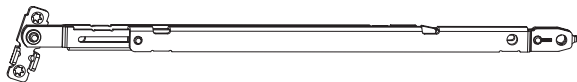


			Nº
To be used in combination with arrestable ventilation stay or arrestable brake stay		Roto Sil	795925



10.5 Restrictor and cleaning stays

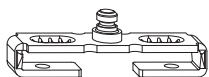
10.5.1 Frame components



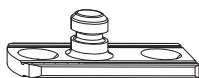
				Nº
Frame component	Type 1	361 – 630	Roto Sil	2026063
	Type 2	631 – 1200	Roto Sil	2026069

For the compatible support plate, see → *from page 636*.

10.5.2 Sash components



			Nº
Sash bearing for hardware groove	Roto Sil	–	2026070



			Nº
Sash bearing for floating-mullion installation	Roto Sil	–	2026077



			Nº
Sash bearing for floating-mullion installation	Zinc-nickel	Left	2026073
Sash bearing for floating-mullion installation	Zinc-nickel	Right	2026074

10.5.3 Packers



				Nº
Frame	Height 3.5 mm	R07.2	Traffic white	347133
		R04.1	Grey brown	347134
	Height 3.5 mm (at an angle)	R07.2	Traffic white	347240
		R04.1	Grey brown	347241
	Height 5.5 mm	R07.2	Traffic white	347236
		R04.1	Grey brown	347237
	Height 8.0 mm	R07.2	Traffic white	347238



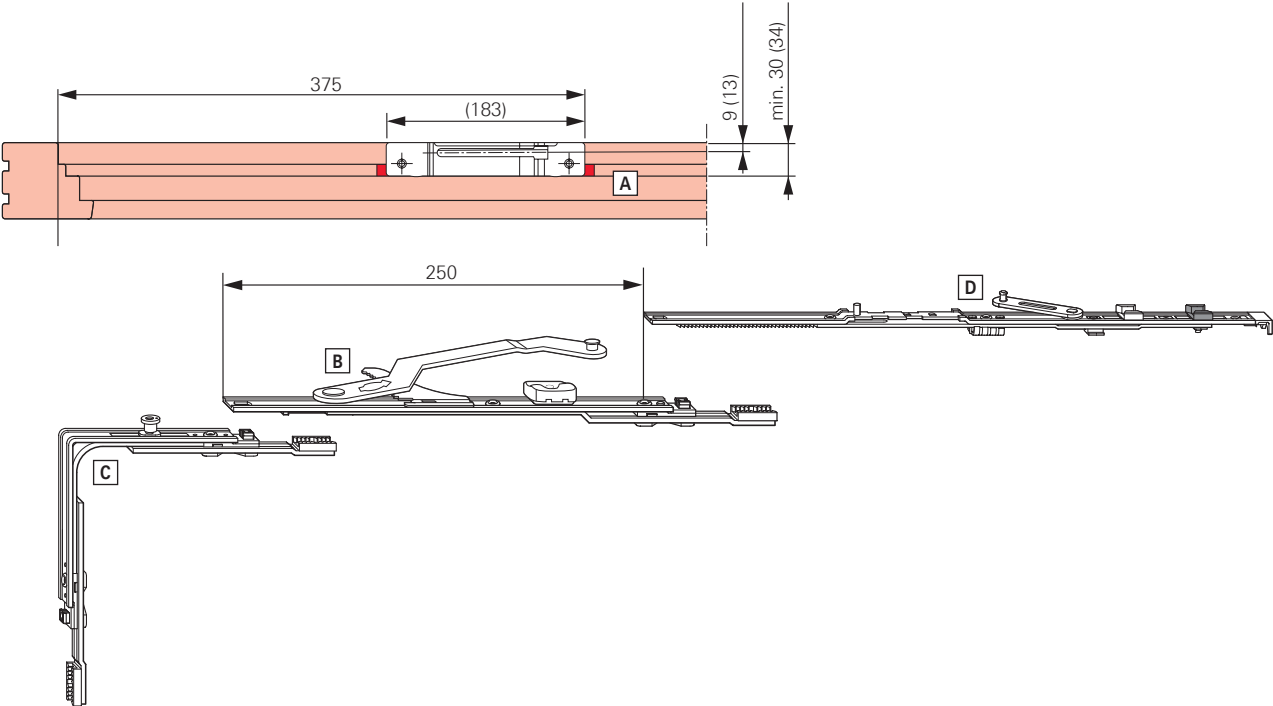
10.6 Arrestable ventilation stays



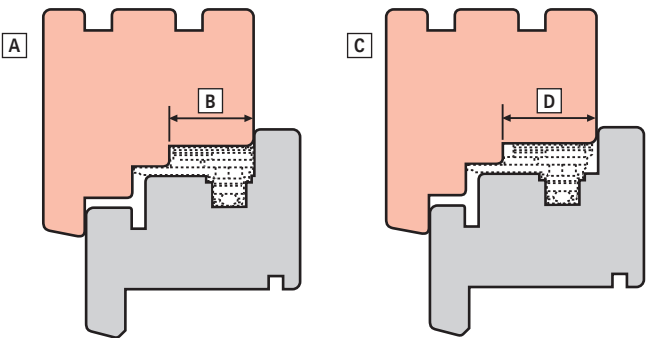
INFO

Components cannot be used in conjunction with hinge side P and hinge side T.

Installation and description



Assignment	Meaning
[A]	Arrestable ventilation stay, frame component
[B]	Arrestable ventilation stay, sash component
[C]	Corner drive
[D]	Stay guide without blocking device



Assignment	Meaning	Locking element
[A]	Hardware axis 9 mm	-
[B]	30 mm	No. 4
[C]	Hardware axis 13 mm	-
[D]	34 mm	No. 4

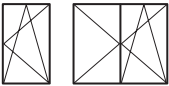


INFO

Only the stay guide without blocking device and the sash lifter, but not the lifting mishandling device, can be used in conjunction with the arrestable ventilation stay.

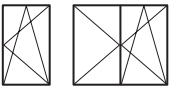
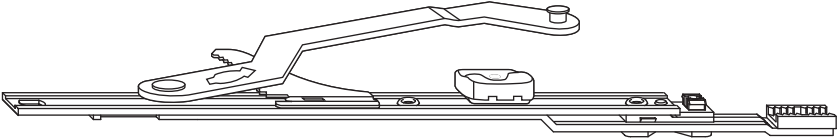


10.6.1 Frame components



			Nº
9	Roto Sil	Left	330596
13	Roto Sil	Right	330595

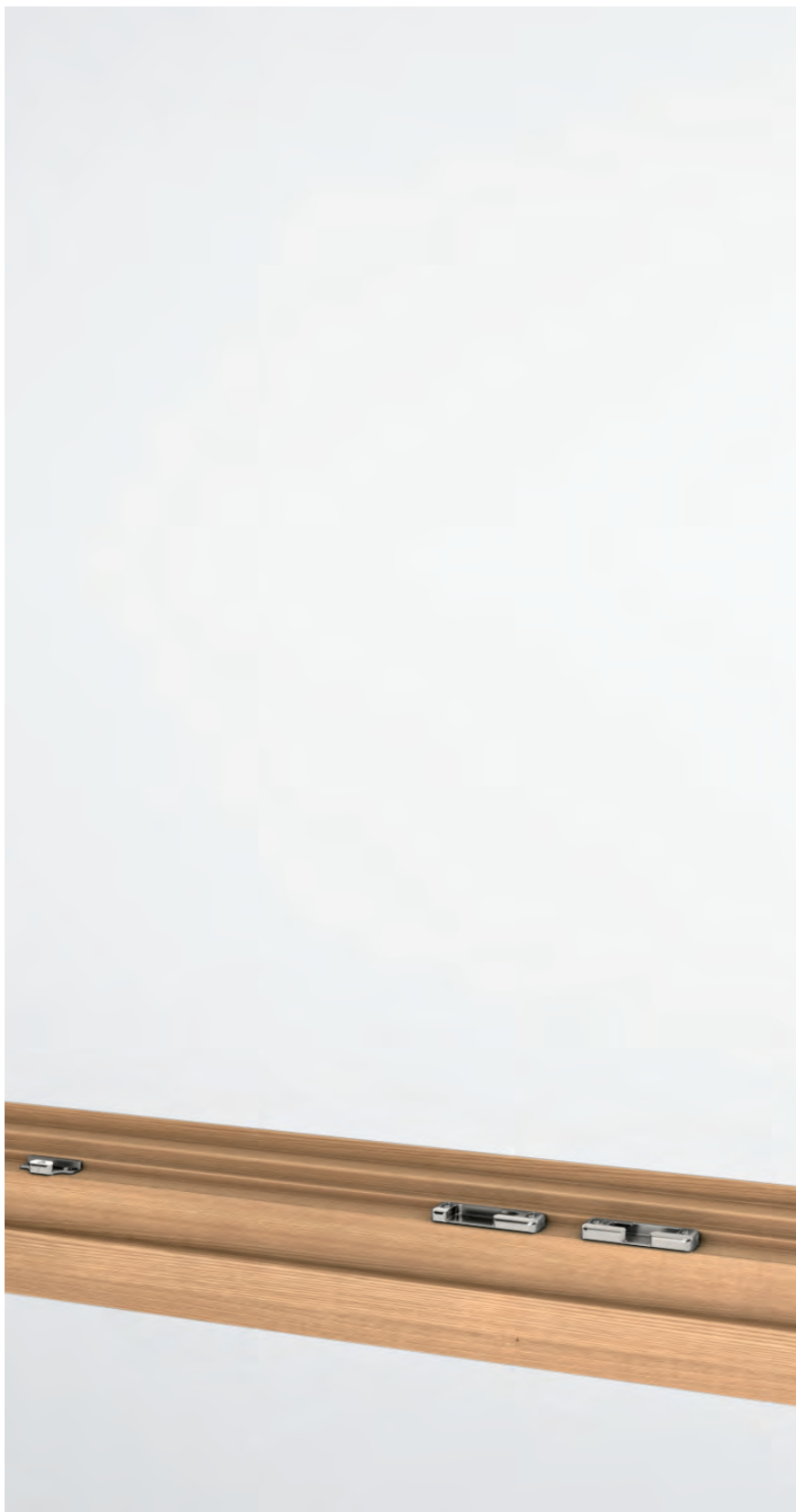
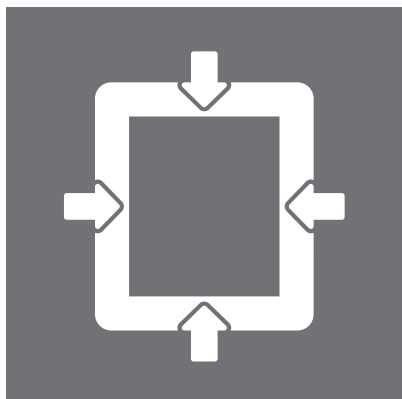
10.6.2 Sash components



				Nº
Locking element no. 4 (5 lock-in positions)	250	Roto Sil	Left	315998
		Roto Sil	Right	315999
Spacer cap (rebate clearance 13.5 – 15 mm)	–	–	–	281635











Bullet catches

Standard	644
Magnet	645
ATM	647

Night vents

Single-stage	650
Multi-stage	650

Lifting mishandling devices

Frame components	653
Faceplate	654
Sash components	654

Turn restrictors

Turn restrictor 335 / 355 / 355C	655
Turn restrictor A	656
Turn restrictor 195	659
Turn restrictor 198	660

Security components

Drilling protection – backset 8 and 15 mm	662
Drilling protection – backset 25 to 50 mm	662
Floating mullion	662
Sash components	663
Anti-jemmy device	663

Connection elements

Couplings	664
Fastening plates	664
Connecting links	664

Turn locks

Standard	665
Cylinder	665
Packers	665
Concealed	666

Run-up blocks

See page	667
----------	-----

Packers

See page	669
----------	-----

Centre closers

Hinge side T	670
Hinge side C	673
Hinge side Designo (HA 9 / HA 13)	674
Hinge side Royal	675

Other

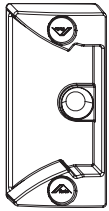
Travel restrictor	676
Cover faceplate	676
End piece for pitched stay guide	676
Anti-slam device	676
Cover cap sets – hinge side T	678
Cover caps – colour sample	678
Info clips	679
Turn opening restrictor – TurnPlus	680

11 Accessories

11.1 Bullet catches

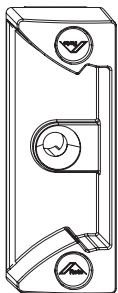
11.1.1 Standard

11.1.1.1 Frame components

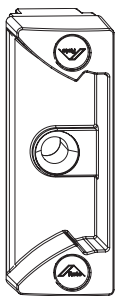


								Nº
–	18	4	Can be routed in	N	–	9	Roto Sil	788376
	24	4	Can be routed in	N	–	13	Roto Sil	788377
Eurofalz	18	12	Screw-on	N	–	9	Roto Sil	788365
		12	Screw-on	Y	2 x Ø 8 mm	9	Roto Sil	788369
	20	12	Screw-on	N	–	9	Roto Sil	788366
		12	Screw-on	Y	2 x Ø 8 mm	9	Roto Sil	788370
	24	12	Screw-on	N	–	13	Roto Sil	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
	24	12	Screw-on	N	–	9	Roto Sil	788375

11.1.1.2 Floating mullion

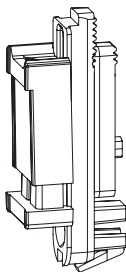


			Nº
Bullet catch for lever-operated espagnolette	Screw-on	Roto Sil	788378



			Nº
Bullet catch for opposite hardware groove		Roto Sil	788507

11.1.1.3 Sash components



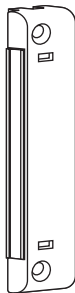
			Nº
Bullet catch sash component		Roto Sil	788363



		Nº
Bullet-catch sash component support (upper / lower horizontal hardware groove)		794997

11.1.2 Magnet

11.1.2.1 Frame components



							Nº
–	24	5	Can be routed in	N	–	9	355615
Eurofalz	18	12	Screw-on	N	–	9	330014
	20	12	Screw-on	N	–	9	330015
	30	12	Screw-on	N	–	13	602203
		12	Screw-on	Y	2 x Ø 8 mm	13	602204
Euronut 7/8	18	12	Screw-on	N	–	9	365352



INFO

Can only be used in conjunction with magnetic bullet catch sash component.

11.1.2.2 Floating mullion



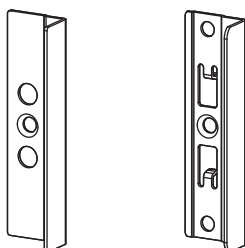
		Nº
Magnetic bullet catch for lever-operated espagnolette	9	330081
	13	482418
Magnetic bullet catch for lever-operated espagnolette, Euro-groove 7 / 8	9	330082



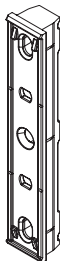
INFO

Can only be used in conjunction with magnetic bullet catch sash component.

11.1.2.3 Sash components



				Nº
Magnetic bullet catch sash component	–	9	Roto Sil	329981
	Clampable	9	Roto Sil	535469
	Clampable	13	Roto Sil	535470



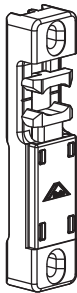
			Nº
Packer for magnetic bullet catch sash component	9 13	Roto Sil	897128



		Nº
Support for magnetic bullet catch hardware groove	Roto Sil	330080

11.1.3 ATM

11.1.3.1 Frame components



									Nº
Eurofalz	18	12	N	–	Also rebate depth 20	9	Roto Sil	Left	491581
		12	N	–	Also rebate depth 20	9	Roto Sil	Right	491580
		12	Y	2 x Ø 8 mm	Also rebate depth 20	9	Roto Sil	Left	491579
		12	Y	2 x Ø 8 mm	Also rebate depth 20	9	Roto Sil	Right	491578
	24	12	N	–	Also rebate depth 30	13	Roto Sil	–	599875
		12	Y	2 x Ø 8 mm	Also rebate depth 30	13	Roto Sil	–	599764
Euronut 7/8 Euronut 11/8	18	12	N	–	Also rebate depth 20 and 24	9 13	Roto Sil	Left	478576
		12	N	–	Also rebate depth 20 and 24	9 13	Roto Sil	Right	478575



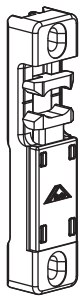
INFO

Component must be installed turned 180 degrees (Roto logo is positioned on the head).





11.1.3.2 Floating mullion



			Nº
ATM bullet catch for lever-operated espagnolette	Screw-on	Roto Sil	600642

11.1.3.3 Sash components



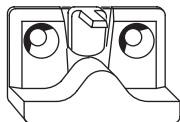
		Nº
Cam for ATM bullet catch (espagnolette installation)	Roto Sil	534670



11.2 Night vents

11.2.1 Single-stage

11.2.1.1 Frame components

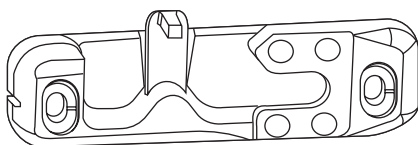


								Nº
Eurofalz	18	12	N	–	9	Roto Sil	–	256633
	20	12	N	–	9	Roto Sil	–	260527
	30	12	N	–	13	Roto Sil	–	595679
Euronut 7/8	18	12	N	–	9	Roto Sil	–	256584



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).



INFO

Can only be used for tested security in conjunction with an asymmetrical security striker.

11.2.2 Multi-stage

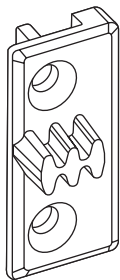


INFO

Components cannot be used in conjunction with hinge side P and hinge side T.



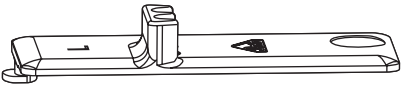
11.2.2.1 Frame components



					
Eurofalz	18	12	9	Roto Sil	319475



11.2.2.2 Floating mullion



			Nº
Floating mullion	Left	Roto Sil	449982
	Right	Roto Sil	446060

11.2.2.3 Sash components

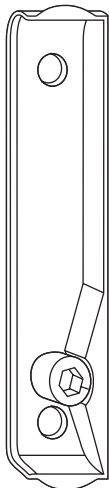
For compatible sash components, see → *from page 514*.



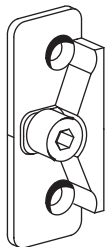


11.3 Lifting mishandling devices

11.3.1 Frame components



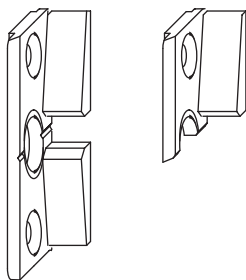
									Nº
–	18	4	Can be routed in	N	–	9	Roto Sil	Left	280120
		4	Can be routed in	N	–	9	Roto Sil	Right	280121
	24	5	Can be routed in	N	–	13	Roto Sil	Left	551744
		5	Can be routed in	N	–	13	Roto Sil	Right	551743



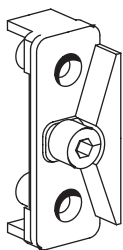
									Nº
Eurofalz	18	12	Screw-on	N	–	9	Roto Sil	–	260540
		12	Screw-on	Y	2 x Ø 8 mm	9	Roto Sil	–	260541
	20	12	Screw-on	N	–	9	Roto Sil	–	260542
		12	Screw-on	Y	2 x Ø 8 mm	9	Roto Sil	–	260543
	24	12	Screw-on	N	–	13	Roto Sil	–	261947
		12	Screw-on	Y	2 x Ø 8 mm	13	Roto Sil	–	261948
	30	12	Screw-on	N	–	13	Roto Sil	–	578785
		12	Screw-on	Y	2 x Ø 8 mm	13	Roto Sil	–	578786
Euronut 7/8	18	12	Screw-on	N	–	9	Roto Sil	–	383281



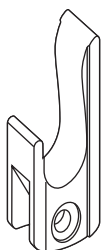
11.3.2 Faceplate



			Nº
Lifting mishandling device for lever-operated espagnolette	–	Screw-on	257600

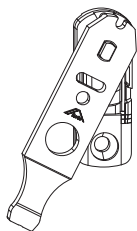


				Nº
Lifting mishandling device for opposite hardware groove	–	Screw-on	Roto Sil	260539



			Nº
Lifting mishandling device for lever-operated espagnolette (SRH < 600 mm)	Euronut 7/8	Screw-on	257252
Lifting mishandling device for lever-operated espagnolette (SRH > 600 mm)	Euronut 7/8	Screw-on	334782

11.3.3 Sash components



		Nº
Lifting mishandling device sash component	Roto Sil	795927



11.4 Turn restrictors

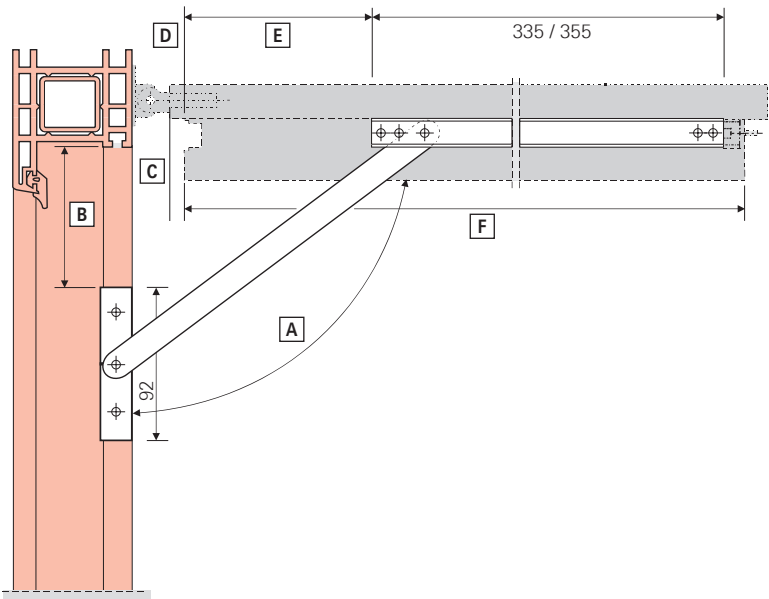
11.4.1 Turn restrictor 335 / 355 / 355C



INFO Comfort component

Not a security component in accordance with DIN EN 13126-5

Installation and description



Assignment	Meaning
[A]	Opening angle $90^\circ \pm 3^\circ$ (80° or 65° if the stop is installed offset)
[B]	Frame installation dimension Turn restrictor 335: 100 mm Turn restrictor 355: 100 mm Turn restrictor 335C: 105 mm
[C]	Overlap edge
[D]	Sash rebate edge
[E]	Sash installation dimension Turn restrictor 335: 125 mm Turn restrictor 355: 105 mm Turn restrictor 335C: 120 mm
[F]	Sash rebate width (SRW) Min. 475 mm ^[2]

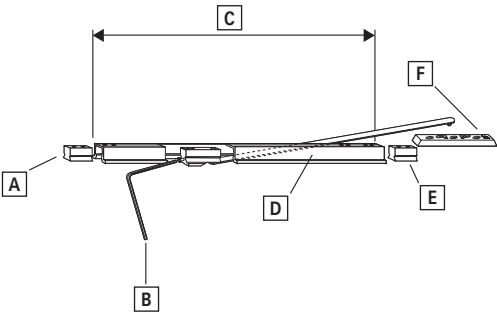


[2] Minimum dimension when using the T&T corner drive: 661 mm

Accessories

Turn restrictors

Turn restrictor A

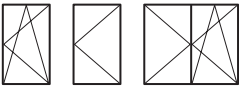


Assignment	Meaning
[A]	Stop
[B]	Brake which can be adjusted with 4 mm hex key
[C]	335 mm (turn restrictor 335) 355 mm (turn restrictor 355 / 355C)
[D]	Aluminium guide track on the sash
[E]	Stop
[F]	Bearing which can be screwed onto the frame

For compatible corner hinges, see → *from page 590*.

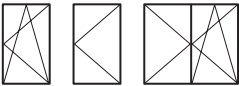
For compatible pivot rests, see .

11.4.1.1 Frame components



			Nº
Bearing	Screw-on	Roto Sil	264625

11.4.1.2 Sash components



				Nº
Turn restrictor 335	Selectable opening angle	Continuously adjustable brake	Roto Sil	260565
Turn restrictor 355	Selectable opening angle	Continuously adjustable brake, spring-loaded final position	Roto Sil	772326
Turn restrictor 355C	Selectable opening angle	Spring-loaded final position	Roto Sil	2037236

11.4.2 Turn restrictor A



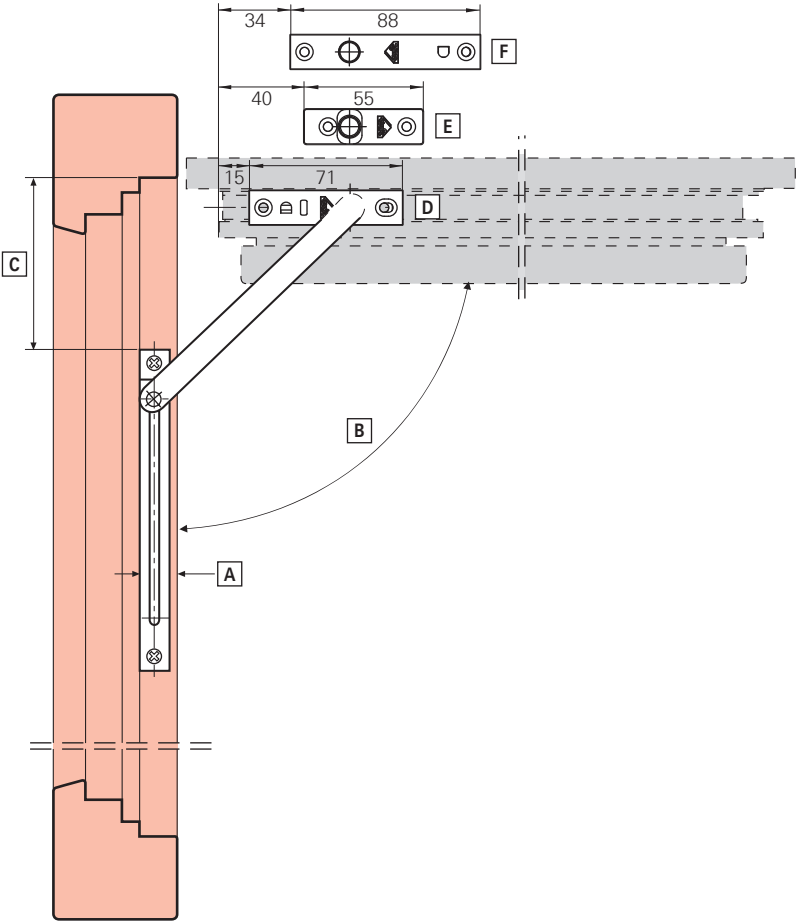
INFO

Comfort component

Not a security component in accordance with DIN EN 13126-5



Installation and description



Assignment	Meaning	System
[A]	Frame track (positioned on the rebate)	–
[B]	Opening angle 90° ± 5°	–
[C]	Distance 82 mm 80 mm 86 mm 82 mm	– 12/18-9 12/20-9 12/18-13 12/20-13
[D]	Sash component for rebate corner hinge A / E5 / T with groove guidance (dimension 15)	–
[E]	Sash component for hardware groove (dimension 40)	–
[F]	Sash component for rebate corner hinge A / E5 / T without hardware groove (dimension 34)	–

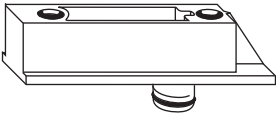
11.4.2.1 Frame components



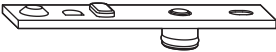
		Nº
Frame track	Roto Sil	260566



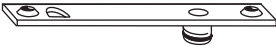
11.4.2.2 Sash components



			Nº
Hardware groove	-	Roto Sil	260562



			Nº
Rebate corner hinge A / E5 / T with groove guidance	Screw-on	Roto Sil	491809



			Nº
Rebate corner hinge A / E5 / T or without hardware groove	Screw-on	Roto Sil	260563





11.4.3 Turn restrictor 195



INFO

Turn restrictor can only be used with hinge side C.



INFO

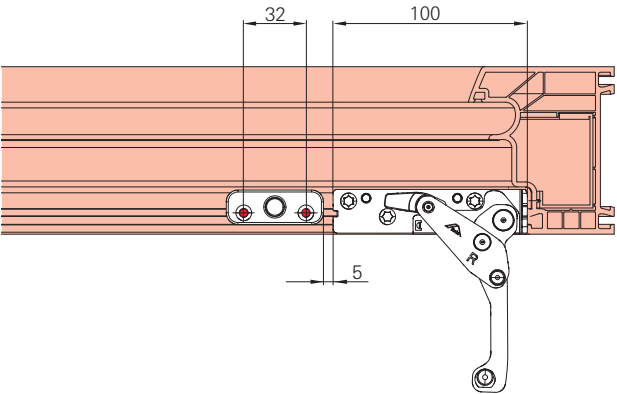
Comfort component

Not a security component in accordance with DIN EN 13126-5

Installation and description

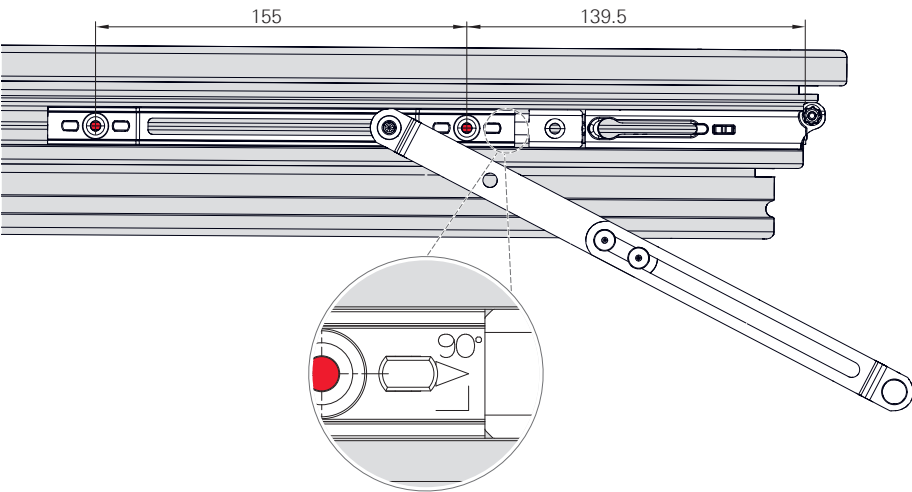
Frame component

Positioning the turn restrictor

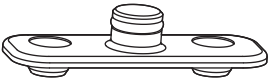


Sash component

It is possible to install sash components with an angle of 90° or 95°. If load transfer is fitted, the sash component with an angle of 90° must be installed. For an opening width of 95°, fit the sash component the other way around.



11.4.3.1 Frame components



Supporting pin	–	–	Roto Sil	Nº	337754

				Nº
Euro-rebate	20	12	Roto Sil	491798

11.4.3.2 Sash components



		Nº
Turn restrictor 195	Hinge side C	2005294

11.4.4 Turn restrictor 198

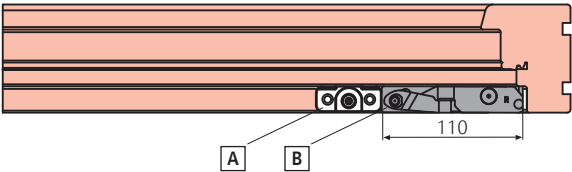


INFO
Turn restrictor can only be used with hinge side Designo.

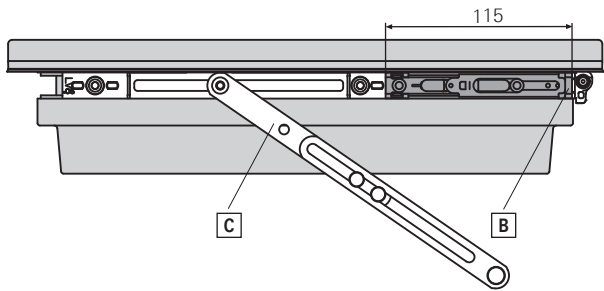
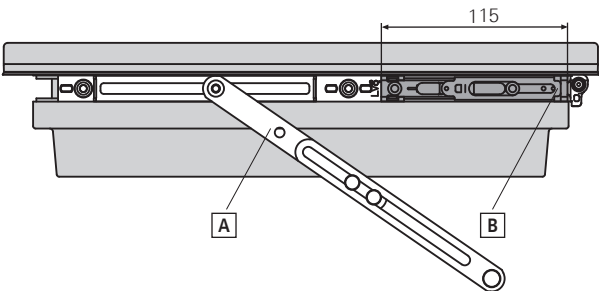


INFO
Comfort component
Not a security component in accordance with DIN EN 13126-5

Installation and description



Assignment	Meaning
[A]	Turn restrictor frame component
[B]	Pivot rest Designo (HA 9) or Designo (HA 13)



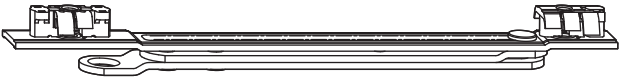
Assignment	Meaning
[A]	Turn restrictor sash component – 90° opening (HA 9)
[B]	Corner hinge Designo (HA 9) or Designo (HA 13)
[C]	Turn restrictor sash component – 100° opening (HA 9) Turn restrictor sash component – 90° opening (HA 13)

11.4.4.1 Frame components

For compatible frame components, see → *from page 633*.



11.4.4.2 Sash components

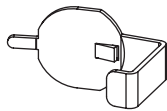


		Nº
Designo hinge side	Roto Sil	485591



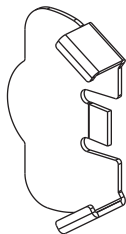
11.5 Security components

11.5.1 Drilling protection – backset 8 and 15 mm



	Nº
Drilling protection	797819

11.5.2 Drilling protection – backset 25 to 50 mm

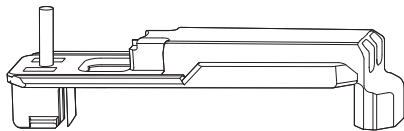


	Nº
Drilling protection	788334

11.5.3 Floating mullion



		Nº
Retainer clasp for lever-operated espagnolette, standard	Roto Sil	314203



	Nº
Retaining element for floating-mullion sash	552392

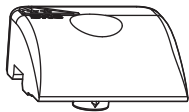


INFO

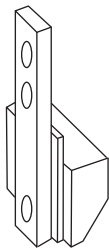
Can only be used in combination with lever-operated espagnolette, standard and a rebate depth of 30.



11.5.4 Sash components

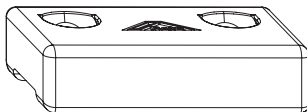


		Nº
Security component for filling the rebate clearance (floating-mullion installation)		601500



		Nº
Additional security component (centre lock)		609838

11.5.5 Anti-jemmy device

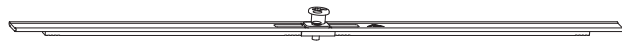


				Nº
Anti-jemmy device	13	From rebate depth 24 mm	RC 1 N RC 2 RC 2 N RC 3	792786
	9 13	From rebate depth 26 mm	RC 1 N RC 2 RC 2 N RC 3	811715

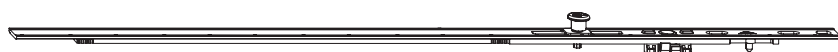


11.6 Connection elements

11.6.1 Couplings



						Nº
Coupling 344	344	100 / 100	1	V	Roto Sil	572665



						Nº
Coupling 450	450	200	1	V	Roto Sil	787089

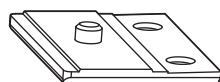


		Nº
Triangular window coupling	Roto Sil	264606

11.6.2 Fastening plates



		Nº
Fastening plate without cam	Roto Sil	487264



		Nº
Fastening plate with cam	Roto Sil	255211



INFO

Can only be used in combination with lever-operated espagnolette, VT 2003815 and T&T espagnolette with centred / variable handle height 259717.

11.6.3 Connecting links

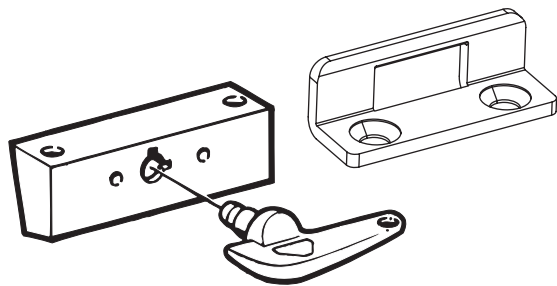


		Nº
Connecting link	Roto Sil	350401



11.7 Turn locks

11.7.1 Standard



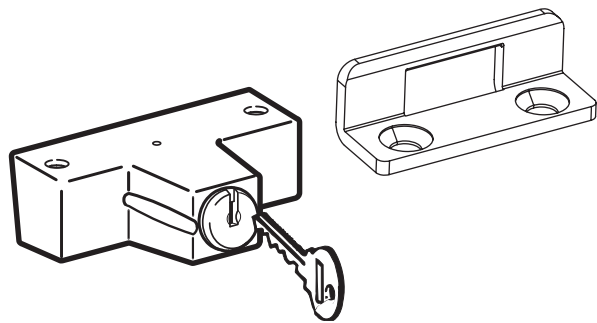
			Nº
Housing and angular bracket	Screw-on	Roto Sil	287575
		White	230157
		Brown	230160
Key	–	Roto Sil	287577
		White	230149
		Brown	230150



INFO

The maximum overlap height is 20 mm.

11.7.2 Cylinder



			Nº
Housing, angular bracket and key	Screw-on	Roto Sil	257070
		White	230153
		Brown	230152
Replacement key	–	Nickel-plated	208248



11.7.3 Packers

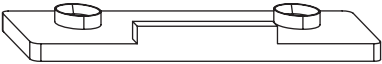


		Nº
Housing (5° inclination)	Roto Sil	287578
	White	230155
	Brown	230158

Accessories

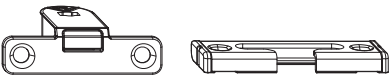
Turn locks

Concealed



		Nº
Angular bracket (2 mm)	Roto Sil	287579
	White	230156
	Brown	230159
Angular bracket (4 mm)	Roto Sil	475594

11.7.4 Concealed



						Nº
Turn lock, concealed	Can be routed in	–	–	–	Roto Sil	736987
Tilt striker for turn lock, concealed	Screw-on	24	12	13	Roto Sil	856832
		30	12	13	Roto Sil	2002100

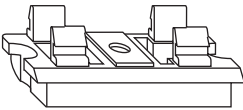


		Nº
Key for turn lock, concealed	–	377995

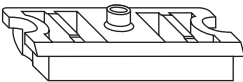




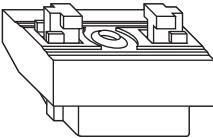
11.8 Run-up blocks



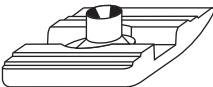
			Nº
Run-up block for groove mounting	Sash	12	770686



			Nº
Run-up block for floating-mullion installation	Sash	12	770685



		Nº
Run-up block with mishandling device	Sash	307050



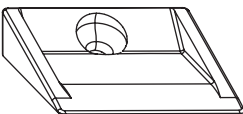
				Nº
Rebate run-up block	Sash	12	18	563829
		12	21	350402
		13	21	350403

Rebate run-up block 12

- For tilt striker (rebate clearance 12)

Rebate run-up block 13

- For tilt striker (rebate clearance 13)
- For strikers, e.g. second opening sash (rebate clearance 12)

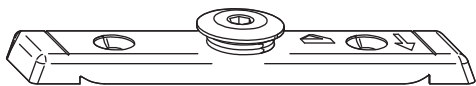


		Nº
Run-up plate for adjustable rebate run-up block	Sash	771035

For compatible frame components, see below.



Accessories
Run-up blocks



				Nº
Rebate run-up block (rebate clearance 12 mm)	Frame	Screw-on	Height adjustable	771036

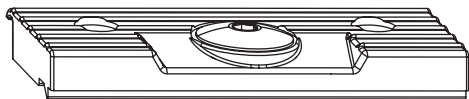
For the compatible sash component, see “Run-up plate for adjustable rebate run-up block” → *from page 667*.

For the compatible support plate, see → *from page 669*.



				Nº
Rebate run-up block with run-up plate (rebate clearance 4 / 12 mm)	Frame Sash	Screw-on Can be routed in	Height adjustable	245765

For the compatible support plate, see → *from page 669*.

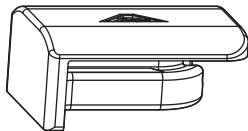


					Nº
Rebate run-up block for threshold (functional clearance 4 / 10 / 12 mm)	Frame	Screw-on	Height adjustable	Grey	772947
				Black	800136

Rebate clearance **4 mm**: for the compatible sash component, see “Run-up plate for adjustable rebate run-up block” → *from page 667*.

Rebate clearance **10 mm**: for the compatible sash component, see “Security component for filling the rebate clearance” → *from page 663*.

Rebate clearance **12 mm**: for the compatible sash component, see “Run-up block for groove mounting” or “Run-up block for floating-mullion installation” → *from page 667*.



			Nº
Rebate run-up block	Frame	Insertable	609211



INFO

Only in conjunction with symmetrical SEC striker (13 mm hardware axis).



11.9 Packers



	Nº
Support for Euro-groove 7 / 8	375930



	Nº
Packer for rebate corner hinge T / E5	630191



INFO

The packer makes it possible to use T / E5 rebate corner hinges with system 12/18-9 in profile systems with system 4/15-9.

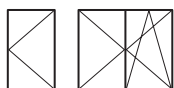
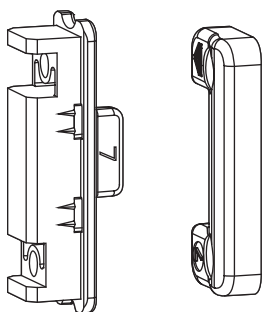


11.10 Centre closers

11.10.1 Hinge side T

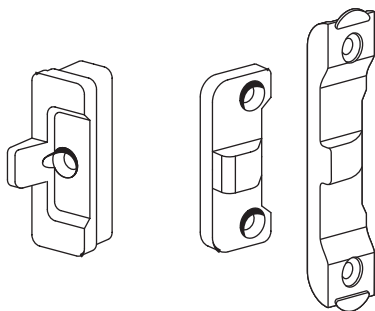
11.10.1.1 Concealed

Adjustable



										Nº
Sash	–	–	–	Screw-on	–	–	9 13	Height adjustable	No. 07	450984
Frame	Eurofalz	30	12	Screw-on	N	–	13	–	No. 07	578787
			12	Screw-on	Y	2 x Ø 8 mm	13	–	No. 07	578788

Not adjustable

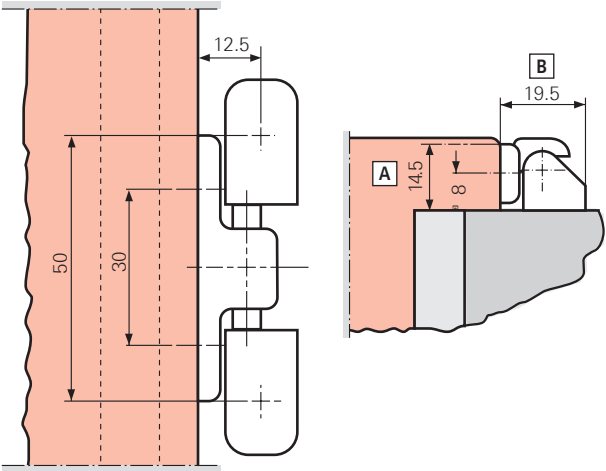


										No.	
Sash	–	–	–	Screw-on	–	–	–	–	No. 02	331486	
Frame	Eurofalz	18	4	Can be routed in	N	–	9	–		280384	
			5	Can be routed in	N	–	13	–		355616	
		20	12	Screw-on	N	–	9	–		264224	
			12	Screw-on	Y	2 x Ø 8 mm	9	–		264225	
			24	12	Screw-on	N	–	13		–	261951
				12	Screw-on	Y	2 x Ø 8 mm	13		–	261952
		Euronut 7/8	20	12	Screw-on	N	–	9		–	264226
Sash	–	–	–	Screw-on	–	–	–	No. 04	264211		
Frame	Eurofalz	18	12	Screw-on	N	–	9		–	264220	

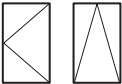
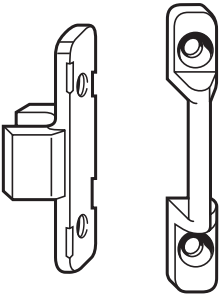


11.10.1.2 Screw-on

Installation and description



Assignment	Meaning
[A]	Minimum overlap height
[B]	Side clearance



Sash	–	Roto Sil	281639
	Overlap gasket	Roto Sil	449785
Frame	–	Roto Sil	281638

For compatible cover caps, see → *from page 671* and → *from page 673*.

11.10.1.3 Cover caps – sash



Accessories
Centre closers
Hinge side T

		Nº
R01.1	Natural silver	229863
R01.2	Nickel silver	229864
R01.3	Titanium	329891
R03.1	Brass matt	642348
R03.2	Brass, polished	229888
R04.1	Grey brown	213797
R04.3	Olive brown	229857
R04.4	Black brown	208604
R05.3	Medium bronze	811478
R05.5	Bronze	637875
R07.2	Traffic white	208600
SF	Special colour	229889





11.10.1.4 Cover caps – frame

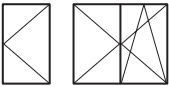
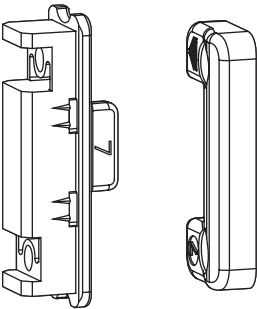


		Nº
R01.1	Natural silver	229858
R01.2	Nickel silver	229859
R01.3	Titanium	329890
R03.1	Brass matt	642347
R03.2	Brass, polished	229890
R04.1	Grey brown	213798
R04.3	Olive brown	229856
R04.4	Black brown	208602
R05.3	Medium bronze	811477
R05.5	Bronze	637874
R07.2	Traffic white	208598
SF	Special colour	229891

11.10.2 Hinge side C

11.10.2.1 Concealed

Adjustable



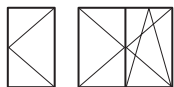
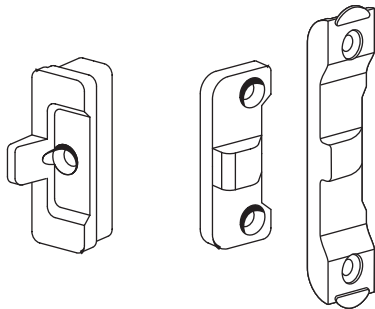
										Nº
Sash	–	–	–	Screw-on	–	–	9 13	Height adjustable	No. 07	450984
Frame	Eurofalz	30	12	Screw-on	N	–	13	–	No. 07	578787
			12	Screw-on	Y	2 x Ø 8 mm	13	–	No. 07	578788

Accessories

Centre closers

Hinge side Designo (HA 9 / HA 13)

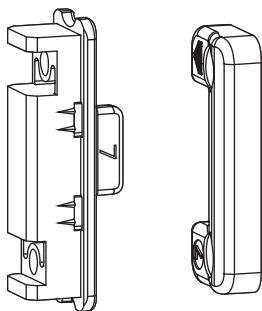
Not adjustable



											Nº
Sash	–	–	–	Screw-on	–	–	–	–	–	No. 02	331486
Frame	–	18	4	Can be routed in	N	–	9	–	–	No. 02	280384
		24	5	Can be routed in	N	–	13	–	–		355616
	Eurofalz	20	12	Screw-on	N	–	9	–	–		264224
			12	Screw-on	Y	2 x Ø 8 mm	9	–	–		264225
		24	12	Screw-on	N	–	13	–	–		261951
			12	Screw-on	Y	2 x Ø 8 mm	13	–	–		261952
	Euronut 7/8	20	12	Screw-on	N	–	9	–	–		264226
Sash	–	–	–	Screw-on	–	–	–	–	–	No. 04	264211
Frame	Eurofalz	18	12	Screw-on	N	–	9	–	–		264220

11.10.3 Hinge side Designo (HA 9 / HA 13)

11.10.3.1 Concealed

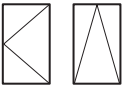
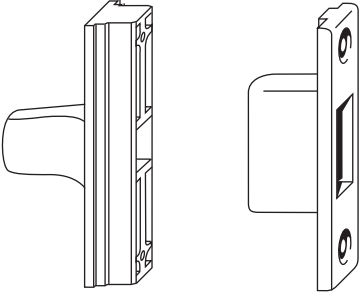




											Nº
Sash	Designo (HA 9 / HA 13)	–	–	–	Screw-on	–	–	9 13	Height ad-justable	–	450984
Frame	Designo (HA 9)	Eurofalz	20	12	Screw-on	N	–	9	–	–	450995
		Euronut 7/8	18	12	Screw-on	N	–	9	–	Also re-bate depth 20	502324
	Designo (HA 13)	Eurofalz	24	12	Screw-on	N	–	13	–	–	787013
				12	Screw-on	Y	2 x Ø 8 mm	13	–	–	617516
			30	12	Screw-on	N	–	13	–	–	769343
				12	Screw-on	Y	2 x Ø 8 mm	13	–	–	606613

11.10.4 Hinge side Royal

11.10.4.1 Concealed

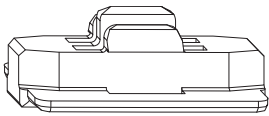


					Nº
Sash	–	–	–	–	255445
Frame	Euronut 7/8	20	12	9	255446
	Eurofalz	20	12	9	255447



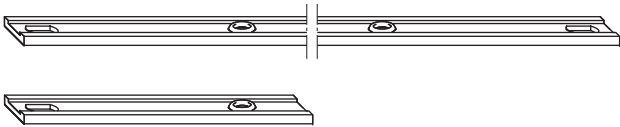
11.11 Other

11.11.1 Travel restrictor



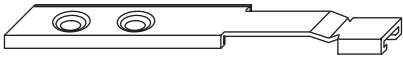
		Nº
Travel restrictor		264603
Turn-Only / Tilt-Only espagnolette limited to 90° (not sh.)		565965
Can be deactivated for sash stay corner drive (not sh.)		640820

11.11.2 Cover faceplate



			Nº
2015	10 mounting holes	Roto Sil	287483
105	1 mounting hole	Roto Sil	296064

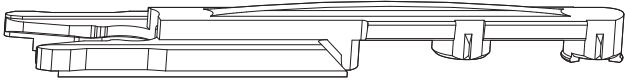
11.11.3 End piece for pitched stay guide



		Nº
End piece for pitched stay guide	Roto Sil	246734

11.11.4 Anti-slam device

Hinge side Designo (HA 9 / HA 13)



		Nº
To reduce the tilt depth from 140 to 80 mm on stay guide 250	Roto Sil	487206

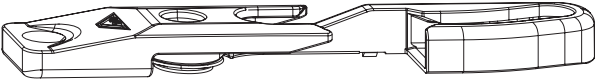


INFO

Can only be used with stay guide Designo (HA 9 / HA 13) – basic security. See → *from page 526.*



Hinge side Designo (HA 13)



				Nº
Anti-slam device for hinge side Designo (HA 13) – tilt depth 80 mm		Roto Sil	Left	833589
		Roto Sil	Right	833590

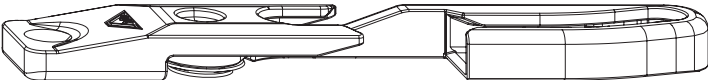
For use with sashes which fall shut out of the tilt position by themselves, e.g. for short windows, for timber / aluminium profiles, or for profiles without overlap gasket.

Hardware axis 13 mm; smooth rebate; rebate depth min. 24 mm



INFO
Only for use in conjunction with P or V cam.

Hinge side Power Hinge



				Nº
Anti-slam device for hinge side Power Hinge – tilt depth 80 mm		Roto Sil	Left	823439
		Roto Sil	Right	823438

		Nº
Support plate for anti-slam device, hinge side Power Hinge		808778

For use with sashes which fall shut out of the tilt position by themselves, e.g. for short windows, for timber / aluminium profiles, or for profiles without overlap gasket.

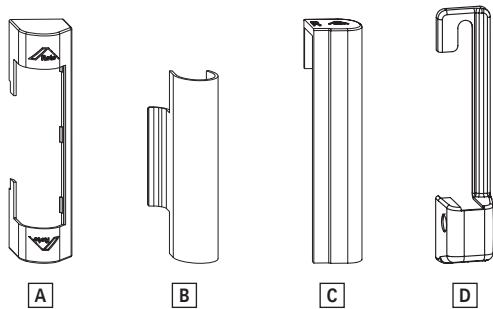
Hardware axis 13 mm; smooth rebate; rebate depth min. 24 mm



INFO
Only for use in conjunction with P or V cam.



11.11.5 Cover cap sets – hinge side T



Assignment	Meaning
[A]	Stay bearing – standard
[B]	Stay arm – standard
[C]	Rebate corner hinge – standard
[D]	Pivot rest – standard

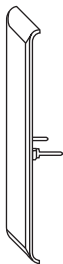
			Nº
R01.1	Natural silver	Left	811741
		Right	811742
R01.2	Nickel silver	Left	811743
		Right	811744
R01.3	Titanium	Left	811745
		Right	811746
R03.1	Brass matt	Left	811747
		Right	811748
R03.2	Brass, polished	Left	811749
		Right	811750
R04.1	Grey brown	Left	811751
		Right	811752
R04.3	Olive brown	Left	811753
		Right	811754
R04.4	Black brown	Left	811755
		Right	811756
R05.3	Medium bronze	Left	811757
		Right	811758
R05.5	Bronze	Left	811759
		Right	811760
R07.2	Traffic white	Left	811761
		Right	811762
R07.3	Cream	Left	811763
		Right	811764

11.11.6 Cover caps – colour sample

	Nº
Cover caps – colour sample	2006486



11.11.7 Info clips



			Nº
Without print	R06.2	Jet black	230694
	R07.2	Traffic white	230696
Single-colour print	R06.2	Jet black	230692
	R07.2	Traffic white	230695
	SF	Special colour	230691
Two-colour print	R07.2	Traffic white	230697
	SF	Special colour	264629
SKG** info clip	R07.2	Traffic white	331459

For attaching information (e.g. company logo and similar) to the lock casing.



INFO

The info clip is compatible with all espagnolettes with 8 and 15 mm backset.

The following special colours are available:

Colour	RAL colour code
Green	6018
Yellow	1003
Red	2002
Blue	5015



INFO

Additional special colours are available upon request.



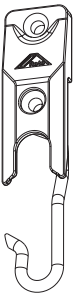
INFO

If an info clip with a single-colour or two-colour print is ordered, please attach the print template in a format of approximately 15 x 40 mm.



11.11.8 Turn opening restrictor – TurnPlus

Frame components



			Nº
Lever	Roto Sil	Left	630502
	Roto Sil	Right	630501

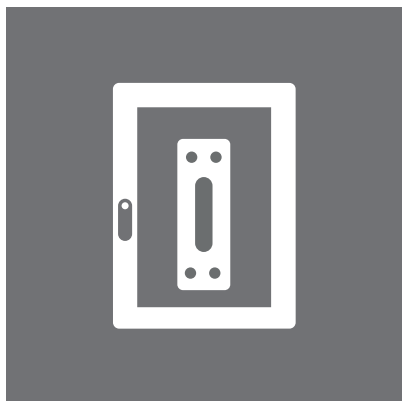
For the compatible support plate, see → *from page 669*.



INFO
No additional sash component is required. A V cam of a component is used as the sash component.











Drilling jigs

Stay bearing	686
Pivot rest	687
Hinge side C – pivot rest, stay bearing and turn restrictor	687
Power Hinge – anti-slam device	688

Positioning jigs

T&T espagnolette – fixed handle height	689
T&T espagnolette – centred / variable handle height	692
Turn-Only / Tilt-Only espagnolette – fixed handle height	695

Marking jig

See page	696
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Punches

Hydropneumatic punch – DUO	697
Pneumatic punch – PS 100	698
Hand lever punch – HS	698

Tools

Adjustment tools	699
Hex key	699
Extractor handle	699
Double open-ended spanner	700

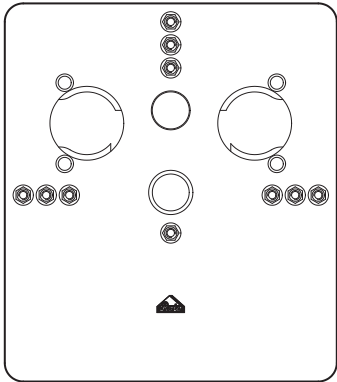
Roto NX grease

See page	701
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12 Jigs / tools

12.1 Drilling jigs

12.1.1 Stay bearing

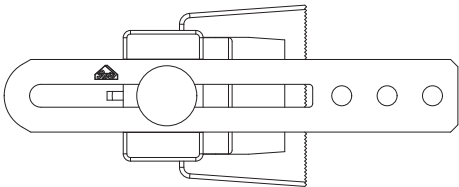


			Nº
Stay bearing	12/18-9	–	787215
Stay bearing and pivot rest	12/18-13	2 x Ø 7 mm	230713
Stay bearing	12/20-9	–	787213
Stay bearing and pivot rest	12/20-13	2 x Ø 7 mm	230716



INFO

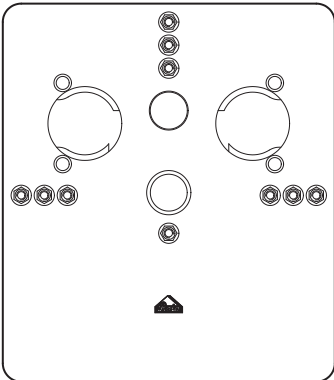
In the case of jigs without a drill hole, use supporting pins for the stay bearing only.



		Nº
Clamping fixture for stay bearing and pivot rest drilling jig	2 Piece(s)	208616



12.1.2 Pivot rest

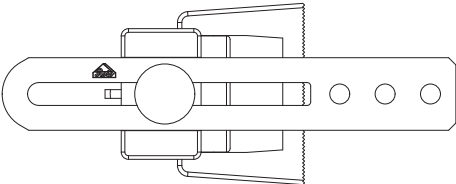


				Nº
Pivot rest	12/18-9	–	–	230712
Stay bearing and pivot rest	12/18-13	2 x Ø 7 mm	–	230713
Pivot rest	12/20-9	–	–	230715
Stay bearing and pivot rest	12/20-13	2 x Ø 7 mm	–	230716



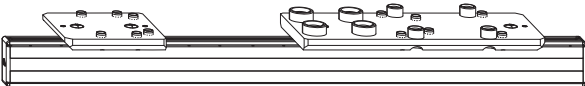
INFO

In the case of jigs with a drill hole, use supporting pins for the pivot rest only.



			Nº
Clamping fixture for stay bearing and pivot rest drilling jig	–	2 Piece(s)	208616

12.1.3 Hinge side C – pivot rest, stay bearing and turn restrictor



				Nº
Pivot rest, stay bearing and turn restrictor	–	24	2 x Ø 6 mm	2021444
	for flush profiles	24	2 x Ø 6 mm	2029398
	–	30	2 x Ø 6 mm	2021445
	for flush profiles	30	2 x Ø 6 mm	2029799



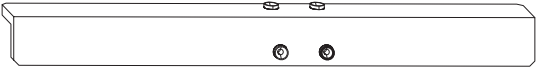
12.1.4 Power Hinge – anti-slam device

Tilt&Turn



		Nº
Anti-slam device	2 x Ø 3 mm	840139

TiltFirst



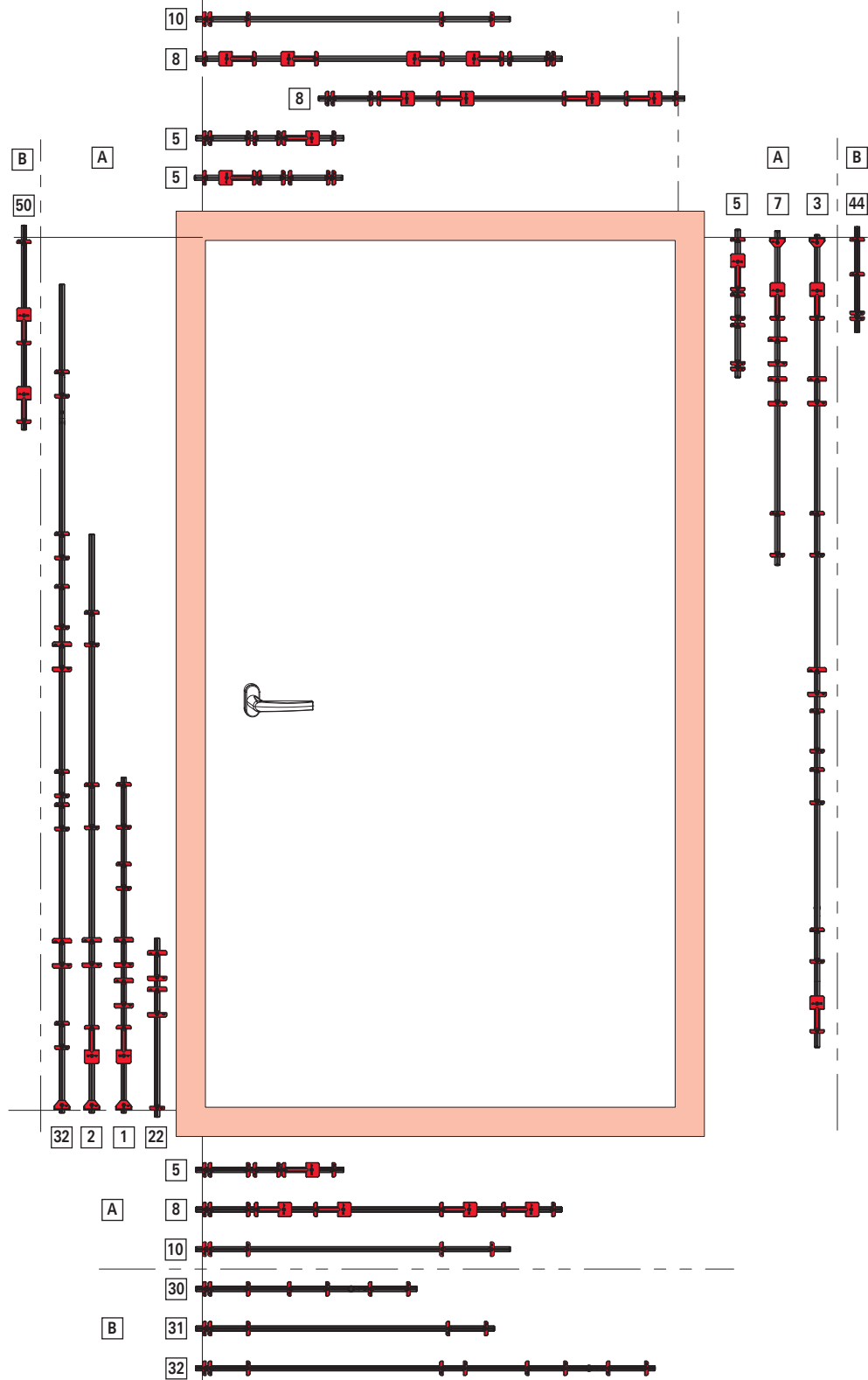
		Nº
Anti-slam device	2 x Ø 3 mm	840139





12.2 Positioning jigs

12.2.1 T&T espagnolette – fixed handle height

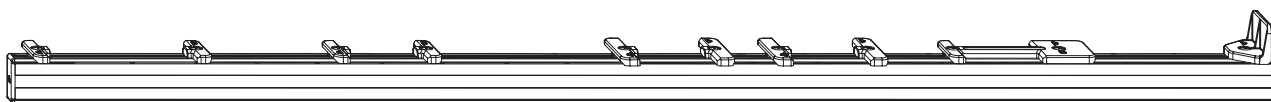


[A] BSec
[B] RC 1 N



Assignment	Item	Application range	T&T		T-O	Single jig
			BSec	RC 1 N	BSec	
[22]	Espagnolette side	SRH 511 – 600 mm	■	■	■	Standard → <i>from page 690</i>
[1]		SRH 801 – 1400 mm	■	■	■	
[2]		SRH 1401 – 1600 mm	■	■	■	
[32]		SRH 1601 – 2800 mm	■	■	■	
[50]		SRH 2601 – 2800 mm	■	–	■	
[5]	Hinge side	SRH 315 – 1100 mm	■	■	–	Tilt striker / corner drive → <i>from page 690</i>
[7]		SRH 1101 – 1800 mm	■	■	–	Standard → <i>from page 690</i>
[3]		SRH 1801 – 2800 mm	■	■	■	
[44] [3]		SRH 320 – 2800 mm	–	■	–	
[5]	Horizontal at the top	SRW 315 – 1200	■	■	■	Tilt striker / corner drive → <i>from page 690</i>
[8]		BSec: SRW 1201 – 1600 mm RC 1 N: SRW 1201 – 1400 mm	■	■	–	Centre lock → <i>from page 691</i>
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 691</i>
[5]	Horizontal at the bottom	SRW 315 – 1100 mm	■	–	■	Tilt striker / corner drive → <i>from page 690</i>
[8]		SRW 1101 – 1600 mm	■	–	–	Centre lock → <i>from page 691</i>
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 691</i>
[30]		SRW 400 – 800 mm	–	■	–	Centre lock, RC 1 N → <i>from page 691</i>
[31]		SRW 801 – 1000 m	–	■	–	
[32]		SRW 1001 – 1400 mm	–	■	–	

12.2.1.1 Standard



Espagnolette side

			Nº
Standard	511 – 800	No. 22	2033841
Standard	801 – 1400	No. 1	290048
Standard	1401 – 1600	No. 2	290049
Standard	1601 – 2800	No. 66	798211
Standard	2401 – 2800	No. 55	808454

Hinge side

			Nº
Tilt striker / corner drive	320 – 2600	No. 44	640450
Standard	801 – 1600	No. 7	290074
Standard	1601 – 2600	No. 3	290050

12.2.1.2 Tilt striker / corner drive

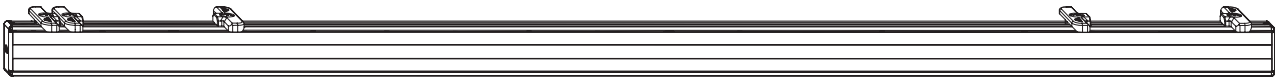


				Nº
Tilt striker / corner drive	315 – 1100	315 – 1200	Top Bottom Hinge side	No. 5 290072

[3] Is used for the top locking point only.

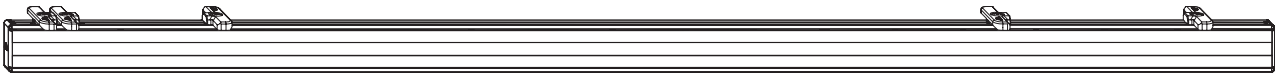


12.2.1.3 Centre lock



					Nº
Centre lock	Basic security RC 1 N	1201 – 1600	Top Bottom	No. 8	290075
	RC 1 N	400 – 800	Bottom	No. 30	268931
		801 – 1000	Bottom	No. 31	268932
		1001 – 1400	Bottom	No. 32	268933

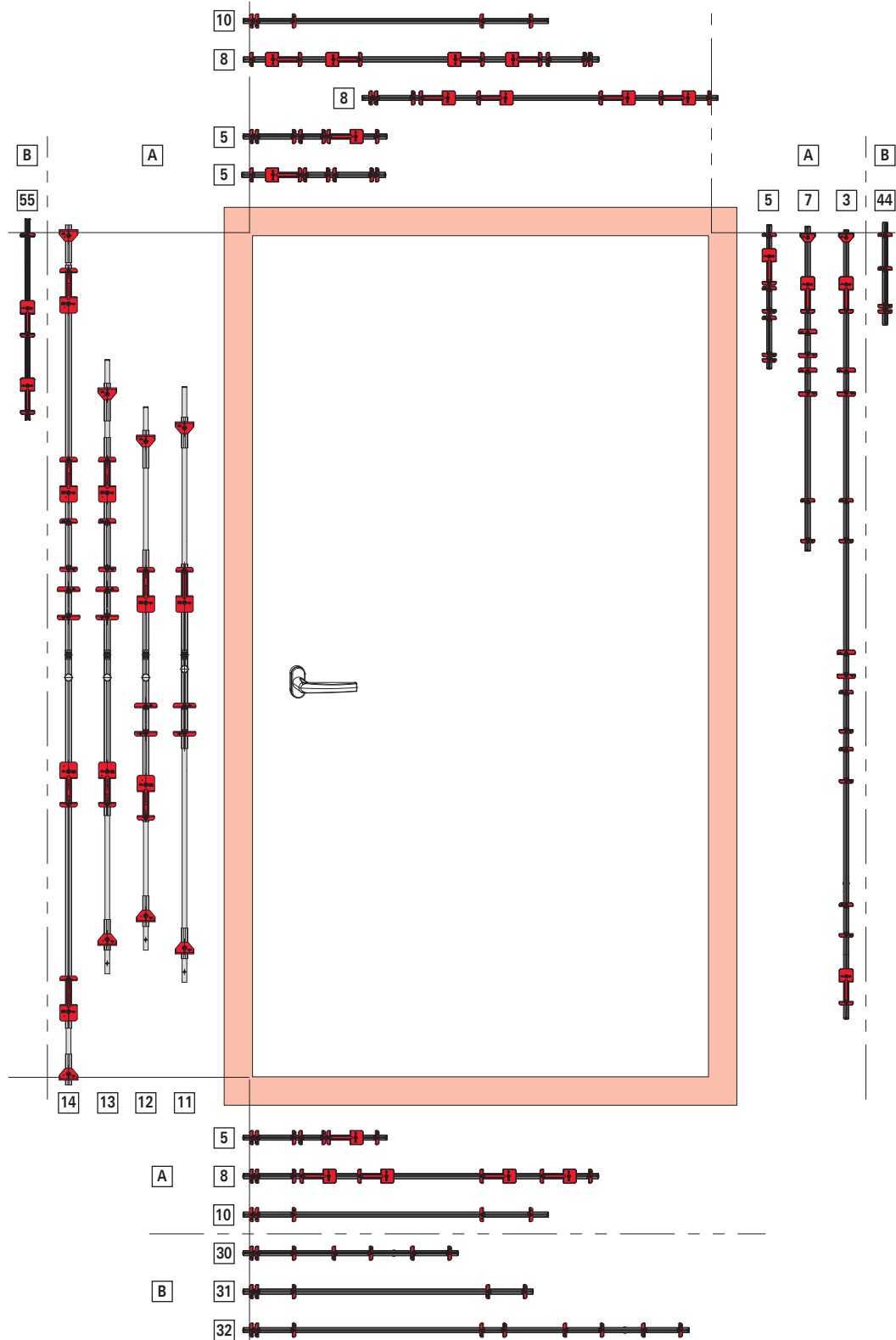
12.2.1.4 Turn-Only sash



				Nº
Turn-Only sash	1101 – 1600	Top Bottom	No. 10	290081



12.2.2 T&T espagnolette – centred / variable handle height



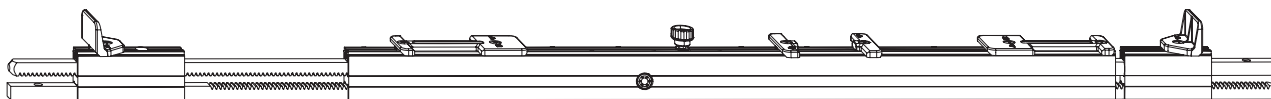
[A] BSec

[B] RC 1 N



Assignment	Item	Application range	T&T		T-O	Single jig
			BSec	RC 1 N	BSec	
[11]	Espagnolette side	SRH 621 – 1200 mm	■	■	■	Standard → <i>from page 693</i>
[12]		SRH 1201 – 1600 mm	■	■	■	
[13]		SRH 1601 – 2000 mm	■	■	■	
[14]		SRH 2001 – 2400 mm	■	■	■	
[55]		SRH 2401 – 2800 mm	–	■	–	
[5]	Hinge side	SRH 315 – 1100 mm	■	■	–	Tilt striker / corner drive → <i>from page 690</i>
[7]		SRH 1101 – 1800 mm	■	■	–	Standard → <i>from page 693</i>
[3]		SRH 1801 – 2800 mm	■	■	■	
[44] [4]		SRH 320 – 2800 mm	–	■	–	
[5]	Horizontal at the top	SRW 315 – 1200	■	■	■	Tilt striker / corner drive → <i>from page 690</i>
[8]		BSec: SRW 1201 – 1600 mm RC 1 N: SRW 1201 – 1400 mm	■	■	–	Centre lock → <i>from page 691</i>
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 691</i>
[5]	Horizontal at the bottom	SRW 315 – 1100 mm	■	–	■	Tilt striker / corner drive → <i>from page 690</i>
[8]		SRW 1101 – 1600 mm	■	–	–	Centre lock → <i>from page 691</i>
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 691</i>
[30]		SRW 400 – 800 mm	–	■	–	Centre lock, RC 1 N → <i>from page 691</i>
[31]		SRW 801 – 1000 m	–	■	–	
[32]		SRW 1001 – 1400 mm	–	■	–	

12.2.2.1 Standard

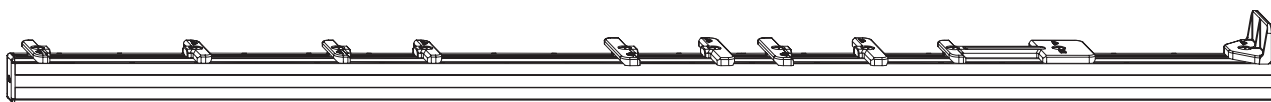


Espagnolette side

					
Standard	Basic security RC 1 N	621 – 1200	Espagnolette side	No. 11	268943
	Basic security RC 1 N	1201 – 1600	Espagnolette side	No. 12	798480
	Basic security RC 1 N	1601 – 2000	Espagnolette side	No. 13	787401
	Basic security RC 1 N	2001 – 2400	Espagnolette side	No. 14	787402
	Basic security RC 1 N	2401 – 2800	Espagnolette side	No. 55	808454

[4] Is used for the top locking point only.





Hinge side

					Nº
Tilt striker / corner drive	RC 1 N	320 – 2600	Hinge side	No. 44	640450
Standard	Basic security RC 1 N	801 – 1600	Espagnolette side Hinge side	No. 7	290074
	Basic security RC 1 N	1601 – 2600	Espagnolette side Hinge side	No. 3	290050



INFO

With T&T espagnolettes – centred / variable handle height, use jigs on the hinge side only.

12.2.2.2 Tilt striker / corner drive



					Nº
Tilt striker / corner drive	315 – 1100	315 – 1200	Top Bottom Hinge side	No. 5	290072

12.2.2.3 Centre lock



					Nº
Centre lock	Basic security RC 1 N	1201 – 1600	Top Bottom	No. 8	290075
		400 – 800	Bottom	No. 30	268931
	RC 1 N	801 – 1000	Bottom	No. 31	268932
		1001 – 1400	Bottom	No. 32	268933

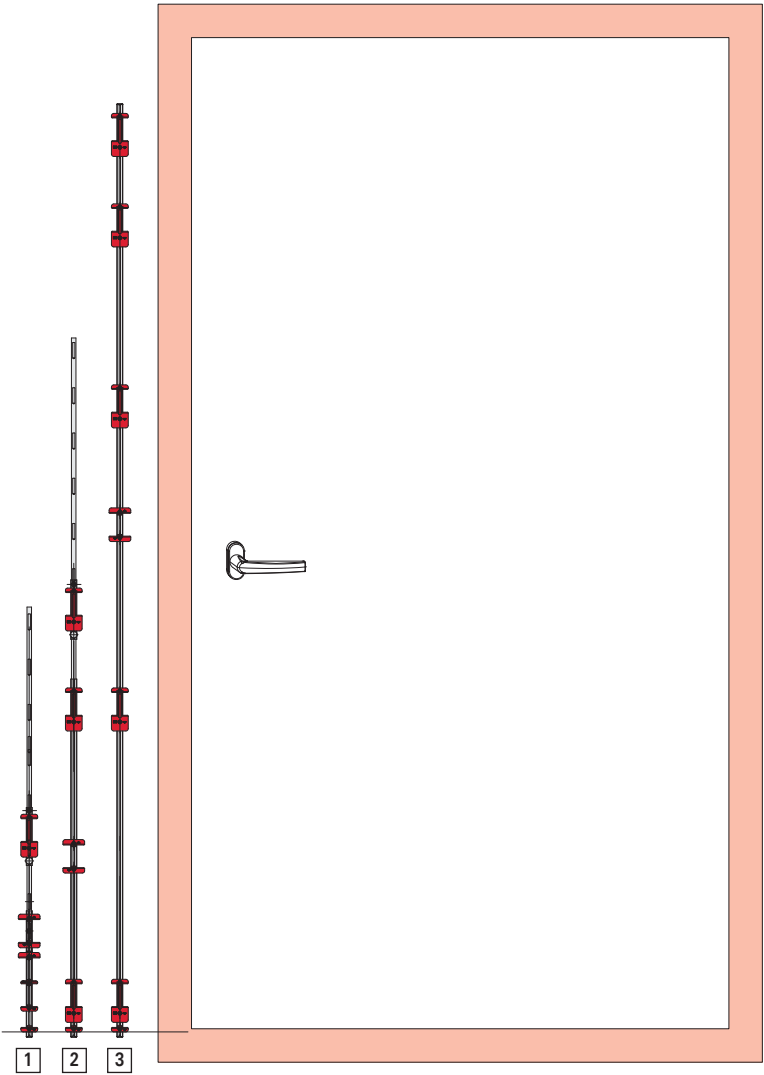
12.2.2.4 Turn-Only sash



				Nº
Turn-Only sash	1101 – 1600	Top Bottom	No. 10	290081



12.2.3 Turn-Only / Tilt-Only espagnolette – fixed handle height



Assignment	Position	Application range	T-O BSec	Single jig
[1]	Espagnolette side	SRH 400 – 1000 mm	■	Standard → <i>from page 695</i>
[2]		SRH 1001 – 1600 mm	■	
[3]		SRH 1601 – 2250 mm	■	

12.2.3.1 Standard

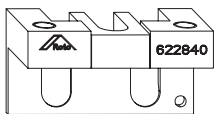


Espagnolette side

				Nº
Standard	400 – 1000	Espagnolette side	No. 1	296148
	1001 – 1600	Espagnolette side	No. 2	296149
	1601 – 2250	Espagnolette side	No. 3	806978



12.3 Marking jig



		Nº
Marking jig for locking cams		622840



INFO

Position the marking jig on the P, E or V cam. Determine the position of the locking component with the marking jig and mark it.





12.4 Punches

12.4.1 Hydropneumatic punch – DUO



			Nº
Hydropneumatic punch – DUO	For offset cuts	Left	2045449
		Right	2045450

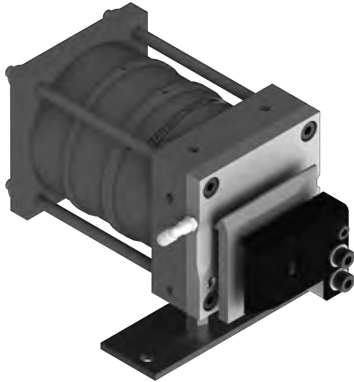
Accessories

		Nº
Foot control for hydropneumatic punch	–	230760
Hand control for hydropneumatic punch	–	230761

		Nº
Ruler	Left	230758
	Right	230759
VT calliper	Left	632972
	Right	632973



12.4.2 Pneumatic punch – PS 100



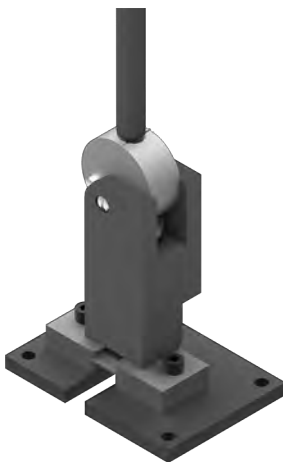
			Nº
			
Pneumatic punch – PS 100	For offset cuts	Left	553992
		Right	553993

Accessories

			Nº
			
Foot control for pneumatic punch		–	554096
Hand control for pneumatic punch		–	554097

			Nº
			
Ruler		Left	230758
		Right	230759
VT calliper		Left	632972
		Right	632973

12.4.3 Hand lever punch – HS

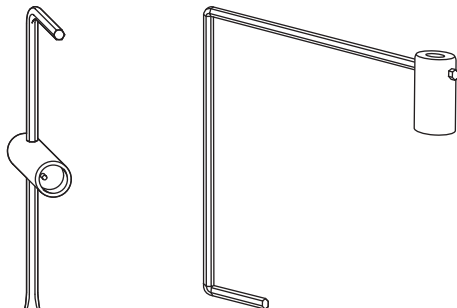


			Nº
			
Hand lever punch – HS	For offset cuts	–	637627



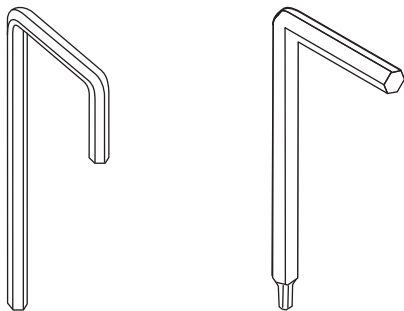
12.5 Tools

12.5.1 Adjustment tools



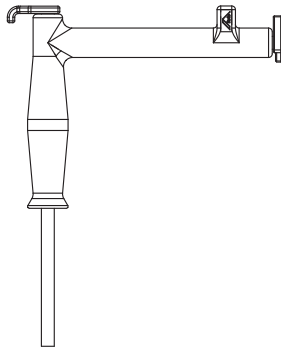
		Nº
	Adjustment tool: V locking cam	258191
		381574

12.5.2 Hex key



		Nº
	Hex key size 4	208609
	Hex key size 2.5 / 4	230764

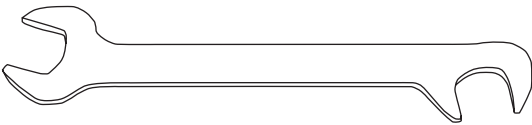
12.5.3 Extractor handle



		Nº
	Extractor handle for stay-bearing pin	899630
	Replacement blade	230765



12.5.4 Double open-ended spanner



				Nº
Double open-ended spanner: extended V locking cam	132	3	Key width 13 mm	230766





12.6 Roto NX grease

			Nº
Roto NX grease	20 ml tube, white	1 Piece(s)	782881





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