

Roto NX

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

Catalogue
for PVC profiles



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 | Fenster- und Türtechnologie

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 Ehitusrautised OÜ

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 Latvija

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
Budowlane Sp. z o.o.**
Kiev (UA)



Asia



**Roto Frank Building
Materials Co. Ltd.**
Beijing (CN)



Roto Frank Indonesia
Jakarta (ID)



**Roto Frank Asia – Pacific
Liaison 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.
San Jose (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

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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
	Profile system
	Number of welded-on strikers



Symbol	Meaning
	Number of locking cams
	Type of locking cams
	Bullet catch
	Security class
	Night ventilation, integrated
	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



Symbol	Meaning
	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	–	Chromium
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
Untreated	Untreated	Uncoated

Colour examples



INFO

Colours may deviate in the illustration.

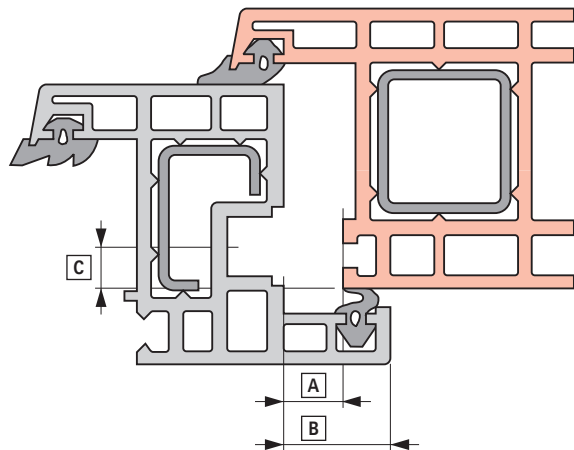
1.1.4 Abbreviations

Abbreviation	Meaning
HA	Hardware axis
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
VT	Vertical tilting
KU	Couplable
CL	Centre lock



Abbreviation	Meaning
N	No
LMD	Lifting mishandling device
Not sh.	Not shown
RC	Resistance class
SEC	Security

1.1.5 System – PVC



System	Rebate 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
12/21-13		21 mm	13 mm
12/22-13		22 mm	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 and timber 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.

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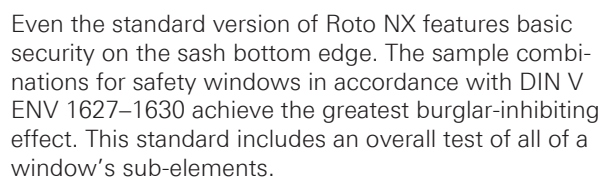


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schriftlich bei der Foto-Frank AG um
im Nachhinein die Gemeindeförderung
gefordert zu werden.

[illegible]

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1.2.4 A universal locking system



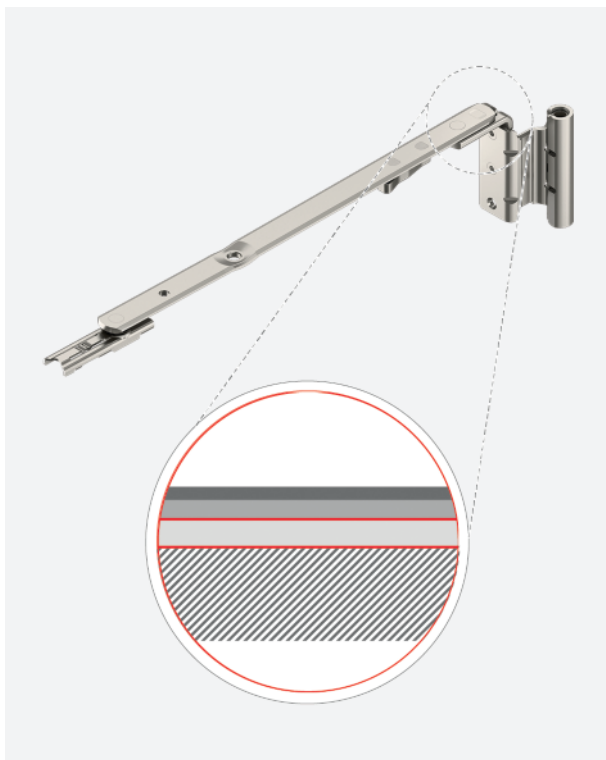
The Roto NX locking concept

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

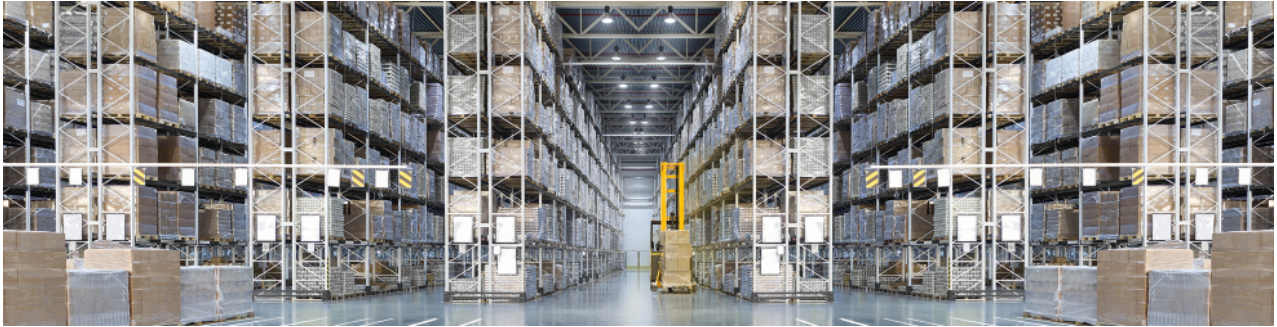
Roto Sil Level 6

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

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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.

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.

 Gütegemeinschaft Schlösser und Beschläge e.V. ORIGINALFASSUNG Ausgabe 2020-11-12	
Richtlinie Beschläge für Fenster und Fenstertüren Vorgehen bei Auswahl, Prüfung und Montage (VHB)	
Inhalt	
1. Anwendungsbereich dieser Richtlinie	4
2. Begriffsdefinition	5
3. Die Gruppenbestimmung	10
4. Allgemeine Funktion und Anwendungsbereich der Beschläge	11
5. Montagebestimmungen	12
6. Sicherheit	13
7. Wartung, Pflege und Inspektion	18
Hinweise: Gütegemeinschaft Schlösser und Beschläge e.V. 01000-10-10 01000-10-10 01000-10-10-10 01000-10-10-10-10 01000-10-10-10-10-10 01000-10-10-10-10-10-10	
Hinweise Technische Angaben sind für die Montage der Beschläge zu beachten. (Einzelheiten)	
Seite 1 von 1	1/20

VHBH

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

 Gütegemeinschaft Schlösser und Beschläge e.V. ORIGINALFASSUNG Ausgabe 2020-11-12	
Richtlinie Beschläge für Fenster und Fenstertüren Vorgehen bei Auswahl, Prüfung und Montage (VHB)	
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Hinweise Technische Angaben sind für die Montage der Beschläge zu beachten. (Einzelheiten)	
Seite 1 von 1	1/20

VHBE

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

 Gütegemeinschaft Schlösser und Beschläge e.V. ORIGINALFASSUNG Ausgabe 2020-11-12	
Richtlinie Befestigung tragender Bauteile in den Dreiecks- und Dreiecksgewindesteifen Vorgehen bei Auswahl, Prüfung und Montage (TBDK)	
Inhalt	
1. Anwendungsbereich dieser Richtlinie	4
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4. Allgemeine Funktion und Anwendungsbereich der Beschläge	11
5. Montagebestimmungen	12
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7. Wartung, Pflege und Inspektion	18
Hinweise: Gütegemeinschaft Schlösser und Beschläge e.V. 01000-10-10 01000-10-10 01000-10-10-10 01000-10-10-10-10 01000-10-10-10-10-10 01000-10-10-10-10-10-10	
Hinweise Technische Angaben sind für die Montage der Beschläge zu beachten. (Einzelheiten)	
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TBDK

Attachment of supporting fitting components
for turn-only and tilt&turn fittings with defini-
tions 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.: 228-9004105-5-7			
Dreh- und Drehkippschläge für Fenster und Fenstertüren <i>Turn and tilt-turn hardware for windows and casement doors</i>			
Produkt product max. Flügelgewicht max. casement weight Einsatzbereich field of application Hersteller manufacturer Produktionsstandort production site	Roto NX 300 kg Systeme mit entsprechender Beschlagsaufnahme <i>Systems with suitable hardware groove</i> Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1, DE 70771 Leinfelden-Echterdingen Roto Frank Austria GmbH Wilhelm-Frank-Platz 1, D-70771 Leinfelden-Echterdingen Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Roto Elzett Certe Kft. Kossuth Lajos u. 25, H-9461 Lővő	Grundlage(n) / Basis: ift-Zertifizierungsprogramm für Beschläge ift-certification scheme for hardware ift-Zertifizierung QM328-2018-01 EN 1191 EN 12400 Klasse 3 class 3 Dauerfunktion <i>resistance to repeated opening and closing</i> EN ISO 9227 EN 1670 Klasse 5 class 5 Korrosionsschutz <i>corrosion protection</i>	
Mit diesem Zertifikat wird bescheinigt, dass das benannte Bauprodukt den Anforderungen des zugrundeliegenden ift-Zertifizierungsprogramms in der aktuellen Fassung entspricht. Erstellung von Produktfamilien des aufgeführten Bauproduktes und Erstprüfung durch eine akkreditierte Prüfstelle nach EN 13126-8:2017 unter Berücksichtigung der Anwendungsdiagramme Einführung und Aufrechterhaltung einer werkseigenen Produktionskontrolle durch den Hersteller Erstinspektion des Werkes und der werkseigenen Produktionskontrolle durch ift-Zert kontinuierliche Fremdüberwachung des Werkes und der werkseigenen Produktionskontrolle durch ift-Zert 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 Herstellbedingungen im Werk oder in der werkseigenen Produktionskontrolle selbst nicht wesentlich verändert haben. Das Zertifikat darf nur unverändert ververvielfältigt 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-Zeichensetzung mit dem "ift-zertifiziert"-Zeichen zu kennzeichnen. Dieses Zertifikat enthält 2 Anlagen.		This certificate attests that the building product mentioned fulfills the requirements of the underlying ift-certification scheme in its current version. compilation of product families of the building product listed and initial type-testing by an accredited testing body as per EN 13126-8:2017 based on the application diagrams implementation and maintenance of a factory production control by the manufacturer initial inspection of the production site and the factory production control by ift-Zert continuous third-party control of the production site and the factory production control by ift-Zert 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 the 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. This certificate contains 2 annexes.	
ift Rosenheim 06.03.2023 Gültig bis / Valid until: 05.03.2028 228 9004105		Christian Kehrer Leiter der ift-Zertifizierungs- und Überwachungsstelle Head of ift Certification and Surveillance Body 228 9004105	
ift Rosenheim GmbH Theodor-Greif-Str. 7-8 D-85020 Rosenheim Kontakt: Tel.: +49 89 8337 209-0 Fax: +49 89 31 761 264 www.ift-rosenheim.de Prüfung und Kalibrierung: EN ISO/IEC 17025 Inspektion: EN ISO/IEC 17020 Zertifizierung: EN ISO/IEC 17005 Zertifizierung: Kinematiksysteme – EN ISO/IEC 17021		Identitäts-Check Identity check www.ift-rosenheim.de/ ift-zertifiziert ID: 400 888 710	

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.

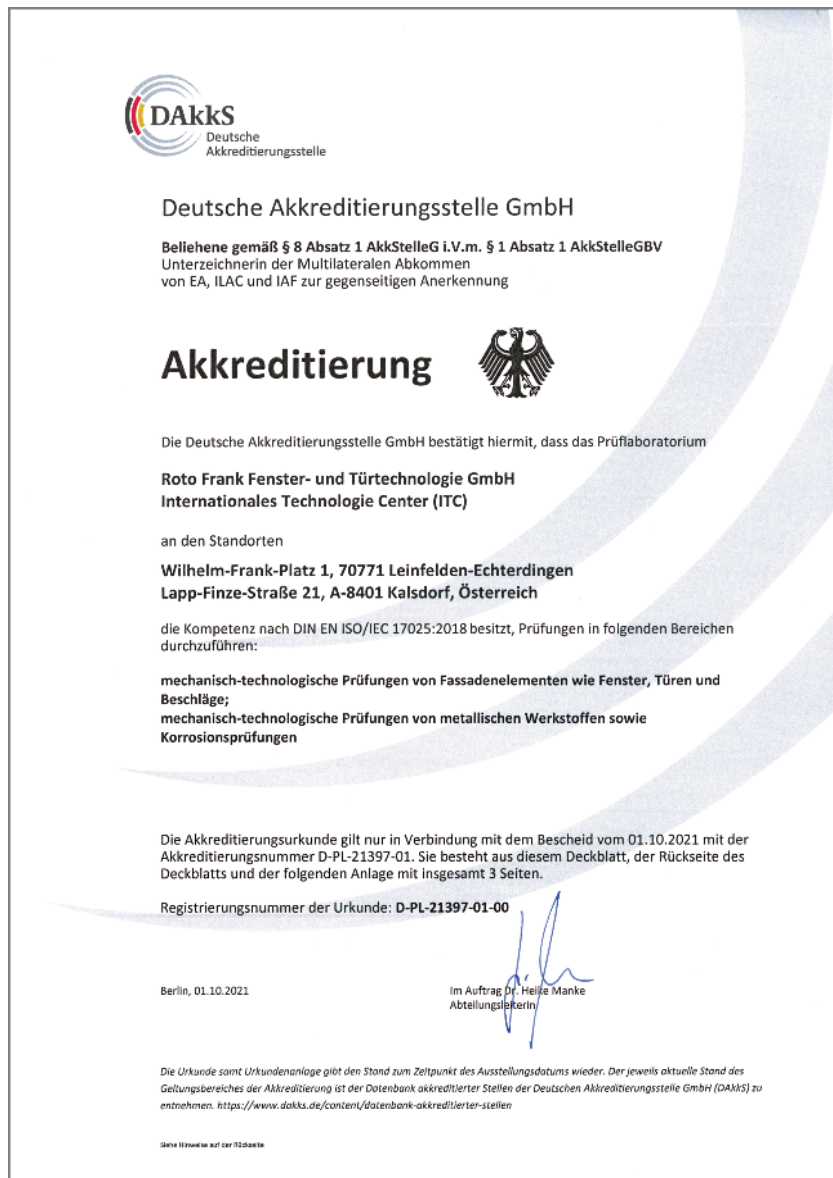
The certification is an external indication of the quality awareness practised at Roto:

- 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.

Zertifikat		ift ROSENHEIM
Zertifikatsnummer: 791IFT-9004105-1-1		
Umfang Qualitätsmanagementsystem DIN EN ISO 9001:2015 Unternehmen (Zentrale) Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1 DE - 70771 Leinfelden-Echterdingen		Grundlage(n): ISO 9001  Gültigkeit Die Gültigkeitsdauer des Zertifikates beträgt drei Jahre. In dieser Zeit wird die Firma durch jährlich stattfindende Audits überwacht. Das Zertifikat ist nur in Verbindung mit dem dazugehörigen Zertifizierungs- und Überwachungsvertrag gültig. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Q-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen. Veröffentlichungshinweise Das Zertifikat darf nur unverändert vervielfältigt werden. Es gelten die Bestimmungen der „Allgemeinen Bedingungen für die Zertifizierung von Managementsystemen“. Das Unternehmen ist berechtigt, das ift-Zertifikat-Zeichen gemäß der ift-Zertifikatsordnung zu nutzen.
Geltungsbereich der Zentrale Entwicklung, Konstruktion, Herstellung und Vertrieb von Fenster- und Türtechnologie und Komponentenfertigung weitere Standorte Siehe Anlage zum Zertifikat	Standort-Bestimmungen Dieses Zertifikat wurde im Rahmen der Standortregelung erteilt. Die übergeordnete Firma (Zentrale) trägt die Verantwortung für die Aufrechterhaltung und Weiterentwicklung der Managementsysteme im benannten Umfang sowie die Steuerung der zentralen Aufgaben.	
Grundlagen Im Zertifizierungsaudit wurde der Nachweis erbracht, dass das Unternehmen inklusive aller auf diesem Zertifikat benannten Standorte ein Qualitätsmanagementsystem entsprechend DIN EN ISO 9001:2015 „Qualitätsmanagementsysteme – Anforderungen“ eingeführt hat und anwendet.		
 Prof. Jörn P. Lass Institutsleiter ift Rosenheim 18.05.2021	 Christian Kehrer Leiter der ift-Zertifizierungs- und Überwachungsstelle	
Zertifizierungsaudit: Mai 2021 Vertragsnummer: 791 9004105 Gültig bis: 17.05.2024		
ift ZERTIFIZIERT CERTIFIED  www.ift-rosenheim.de		
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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.

1.7 Roto Con Orders

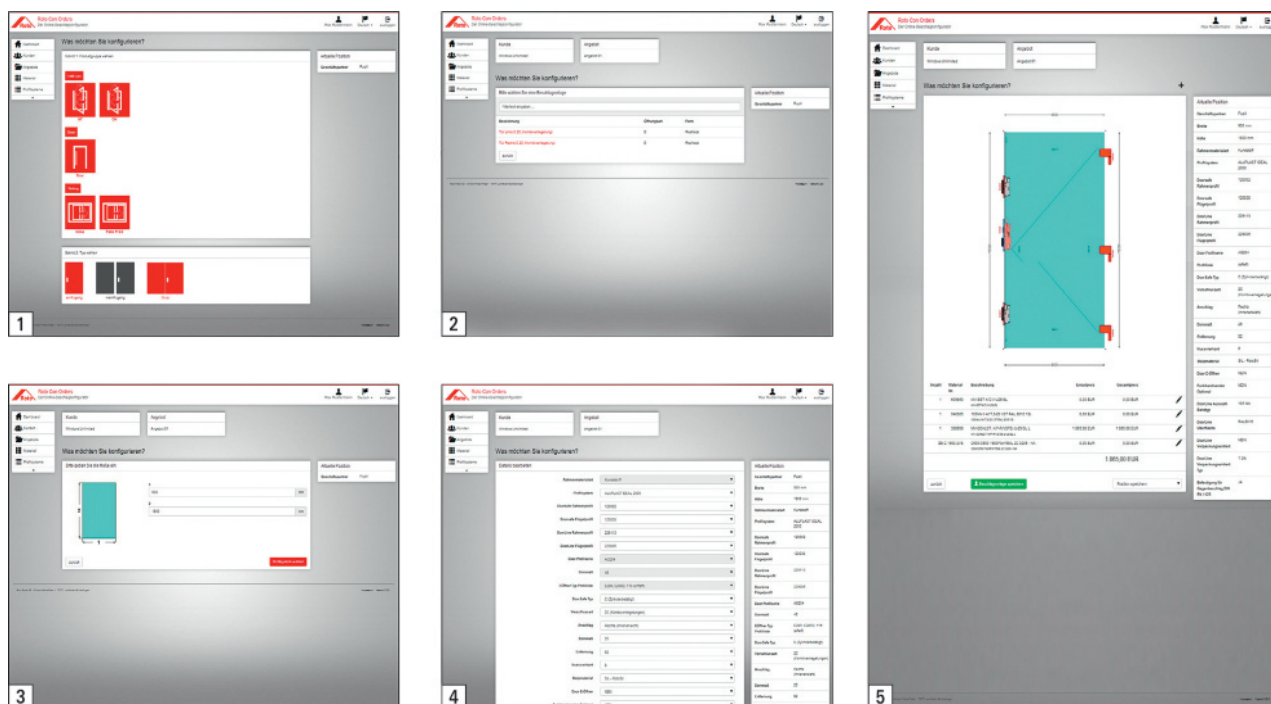


Just four steps for a finished parts list

Roto Con Orders is the perfect solution for window and door manufacturers, and for dealers. This is because with the high-performance online hardware configurator, an individual configuration of window and door hardware can be generated very easily and in an extremely short time – for all common shapes and opening types. Just a few mouse clicks and a couple of numeric entries, and the individual parts list including a technical illustration of the hardware itemising is finished. The list can be changed, adapted or personalised as desired. It can be exported in various data formats, enabling it to be used for individual offers or orders. Benefit from this efficient Roto online tool, save time during configuration, management and ordering – with Roto Con Orders.

Hardware configuration has never been this easy

With intuitive menu guidance, you generate an optimum parts list in just four steps:



1. Selection of the product group
2. Selection of the design template
3. Entry of sizes
4. Individual detailed settings and adaptations
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

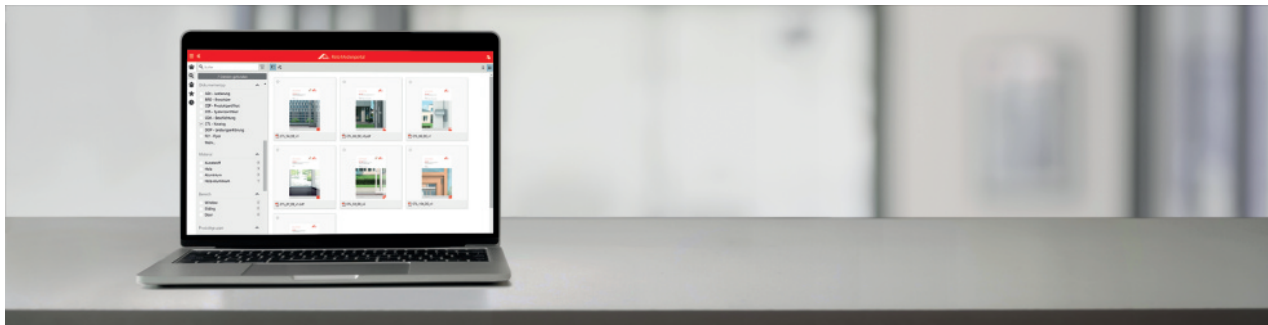
Get started straight away thanks to web-based solution

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

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



Roto NT

The world's biggest selling Tilt&Turn hardware system for windows and balcony doors

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



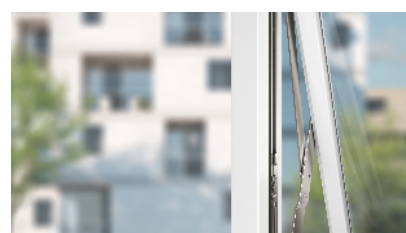
Roto FS Kempton

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 doors



Roto Patio Fold

Premium hardware for Fold&Slide systems with a large surface



Roto Patio Life

Comfort hardware for large sliding doors



Roto Patio Lift

Hardware for versatile use in Lift&Slide systems



Roto Patio Alversa

Universal hardware for minimum effort in Parallel Sliding and Tilt&Slide systems



Roto Patio Inowa

Intelligent hardware for tightly sealed sliding systems

Roto Inline – Basic sliding windows and doors



Roto Inline

The hardware system for basic sliding windows and sliding doors



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

Tailor-made range of thresholds for tightly sealed accessible 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

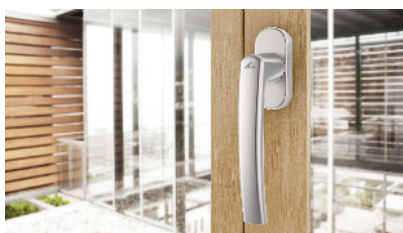
Wireless sensors integrated in hardware for home security

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

Roto Frank

Fenster- und Türtechnologie GmbH

Wilhelm-Frank-Platz 1

70771 Leinfelden-Echterdingen

Germany

Phone +49 711 7598 0

Fax +49 711 7598 253

info@roto-frank.com

www.roto-frank.com

General information

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Hinge side Designo (HA 13)

Turn-Only / Tilt&Turn hardware for rectangular windows	49
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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.) by means of testing and ensure them on their product.

Sash weight	Tractive force in newtons (N)
60 kg	1650 N
70 kg	1900 N
80 kg	2200 N
90 kg	2450 N
100 kg	2700 N
110 kg	3000 N
120 kg	3250 N
130 kg	3500 N
140 kg	3900 N
150 kg	4200 N



INFO

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

Further information can be found at www.beschlagindustrie.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.

Profile classification – application ranges

The individual application diagrams must be complied with.

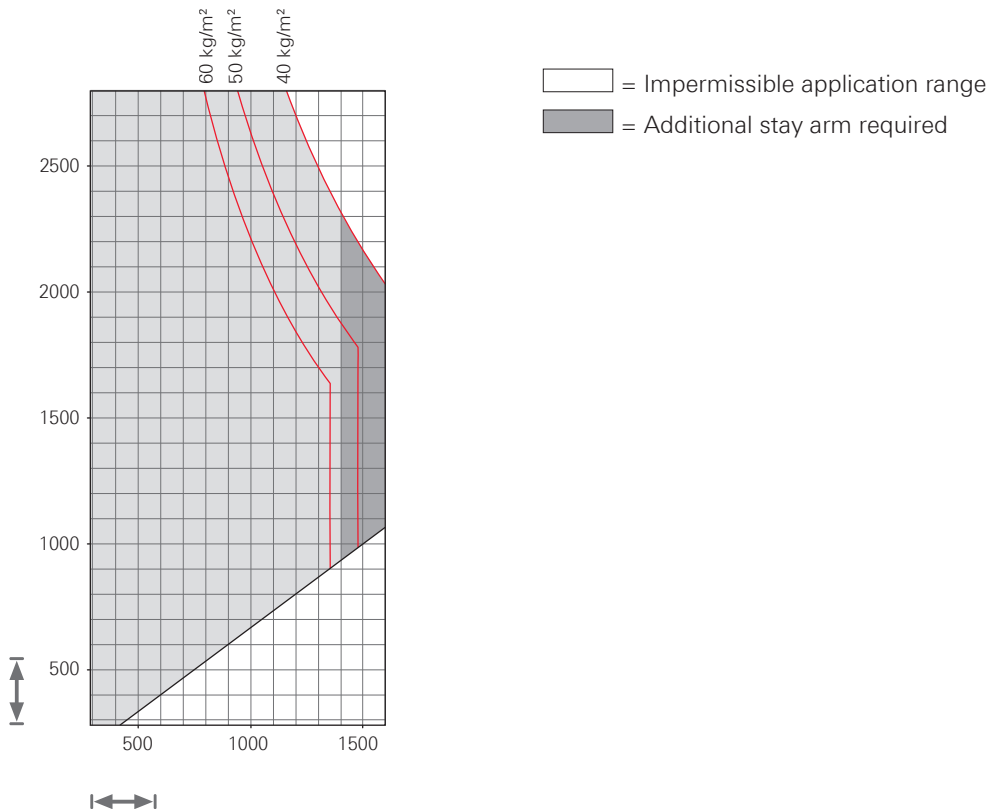
When determining the maximum permitted sash formats and sash weights, the values specified by the profile manufacturers and system owners must not be exceeded either.



2.2 Hinge side P

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

2.2.1.1 130 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

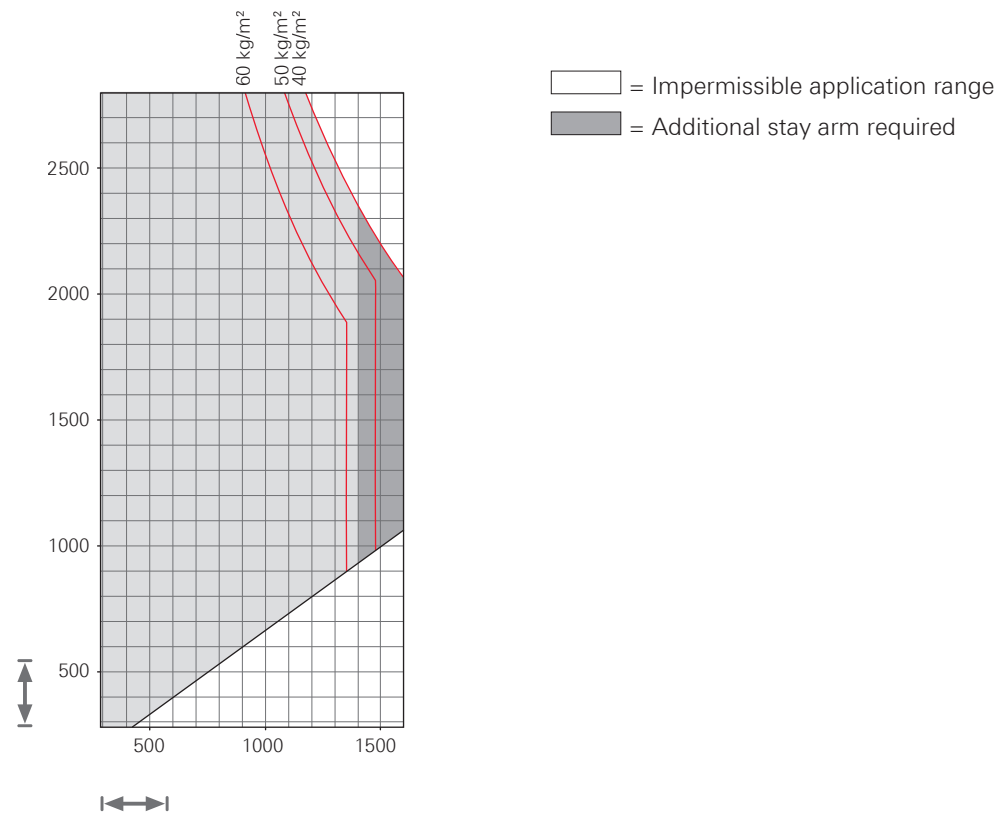
		Basic security	Security RC 1 N	Security RC 2 / RC 2 N	Security RC 3
	Sash rebate width	290 – 1600 mm	320 – 1600 mm	320 – 1400 mm	490 – 1400 mm
	Sash rebate height	280 – 2800 mm	280 – 2800 mm	510 – 2800 mm	600 – 2800 mm
	Sash weight	Max. 130 kg	Max. 130 kg	Max. 130 kg	Max. 130 kg



INFO

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

2.2.1.2 150 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	Security RC 3
	Sash rebate width	290 – 1600 mm	320 – 1600 mm	320 – 1400 mm	320 – 1400 mm
	Sash rebate height	280 – 2800 mm	280 – 2800 mm	510 – 2800 mm	510 – 2800 mm
	Sash weight	Max. 150 kg	Max. 150 kg	Max. 150 kg	Max. 150 kg



INFO

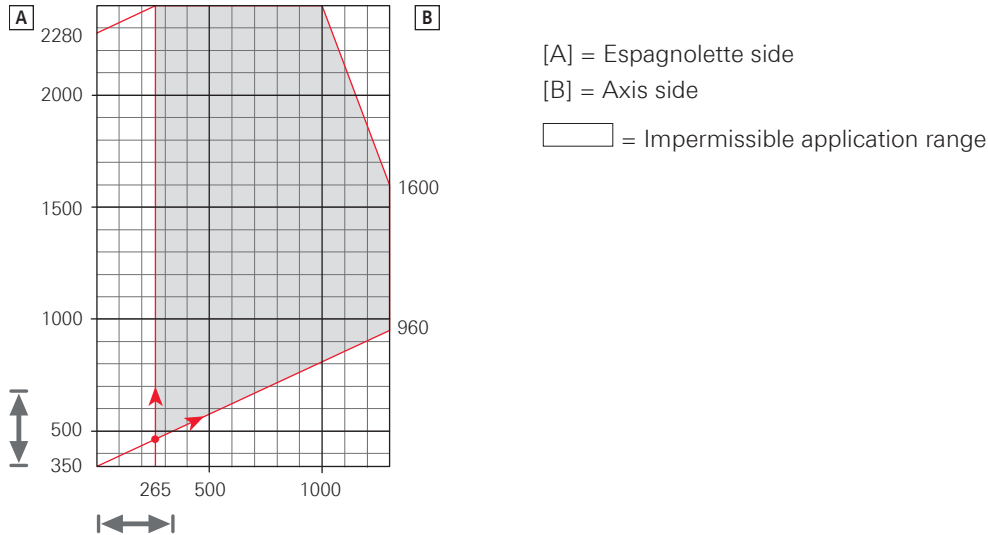
Observe directive TBDK for tractive force values as a function of the sash weights.

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



2.2.2 Tilt&Turn hardware for pitched windows

2.2.2.1 Pitched angle 25°



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	See diagram
	Sash rebate height	See diagram
	Sash weight	Max. 80 kg

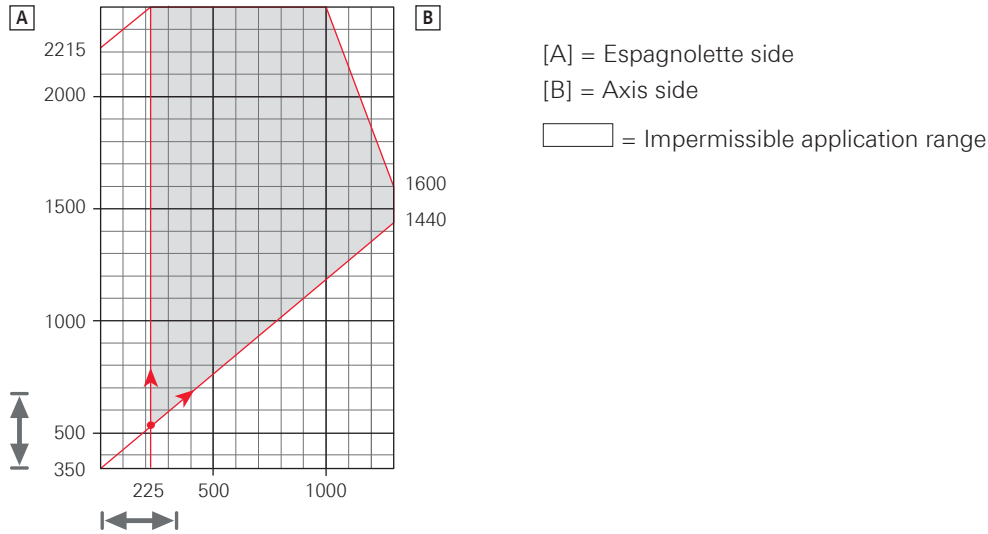


INFO

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



2.2.2.2 Pitched angle 40°



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

Application range

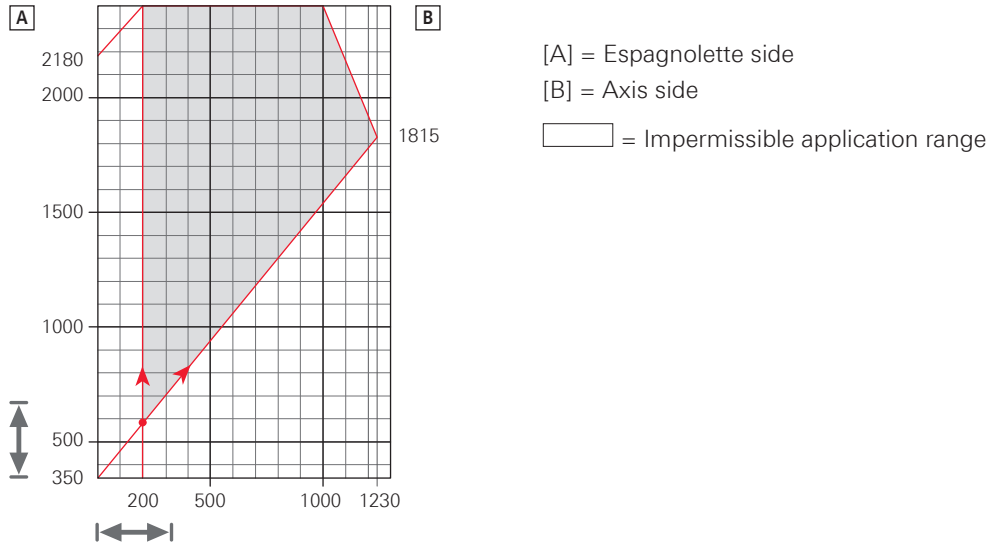
Basic security		
	Sash rebate width	See diagram
	Sash rebate height	See diagram
	Sash weight	Max. 80 kg



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



2.2.2.3 Pitched angle 50°



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	See diagram
	Sash rebate height	See diagram
	Sash weight	Max. 80 kg

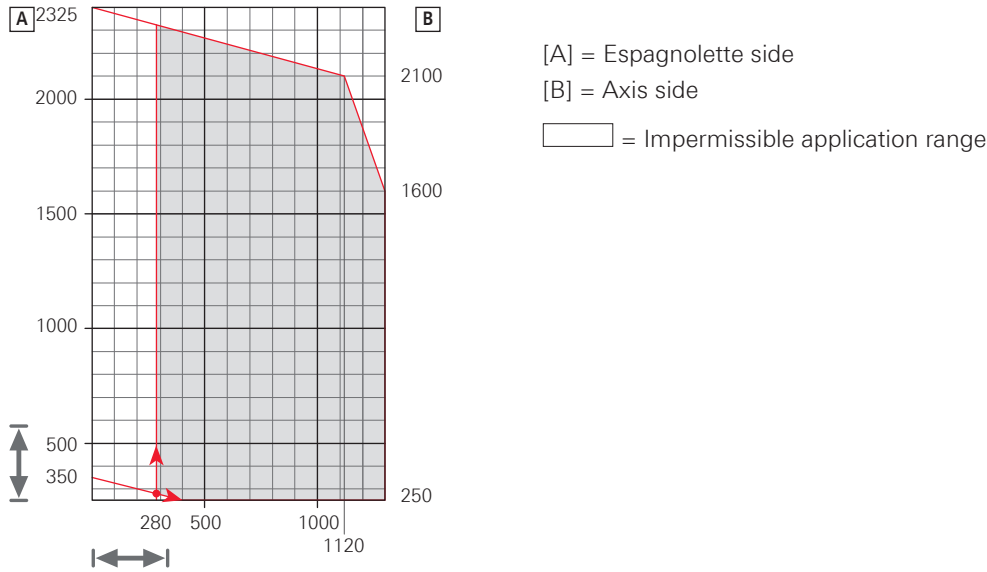


INFO

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



2.2.2.4 Pitched angle -15°



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	See diagram
	Sash rebate height	See diagram
	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.beschlagindustrie.de.



2.2.3 Tilt&Turn hardware for arched windows



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



INFO

The radius (R) of the arched window must be equal to half the SRW.

Application range

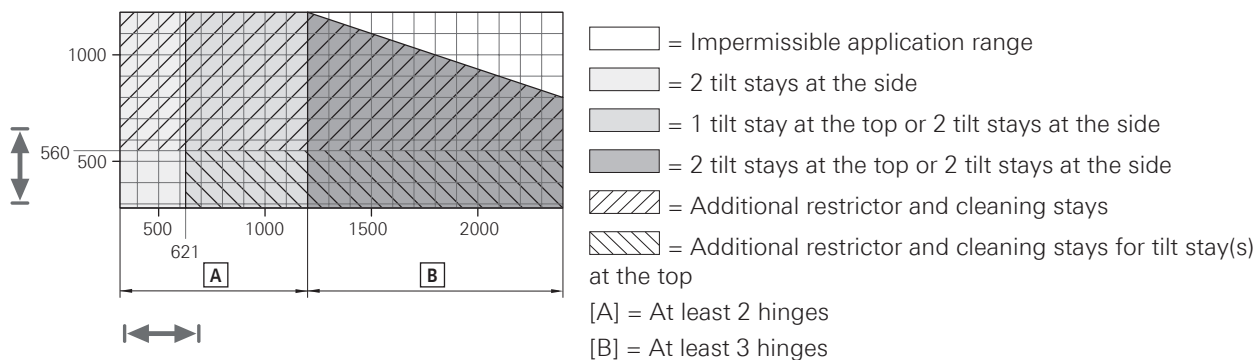
Basic security		
	SRW	400 – 1300 mm
	SRH	500 – 1900 mm
	S.kg	Max. 80 kg



INFO

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

2.2.4 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	310 – 2400 mm ^[1]
	Sash rebate height	290 – 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.beschlagindustrie.de.

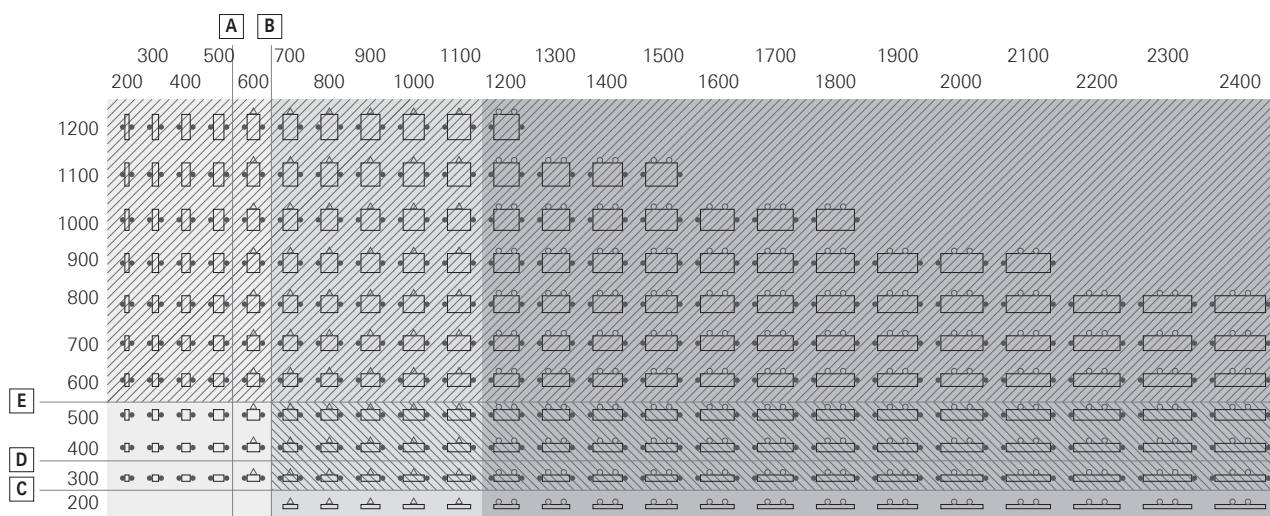


INFO

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

Restrictor and cleaning stays up to max. 60 kg.

[1] SRW 310 – 449 mm with Turn-Only / Tilt-Only espagnolette only



[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** K, E5, P, T, A

[D] From **360 mm** K, E5, P, T, A, Designo, Alu

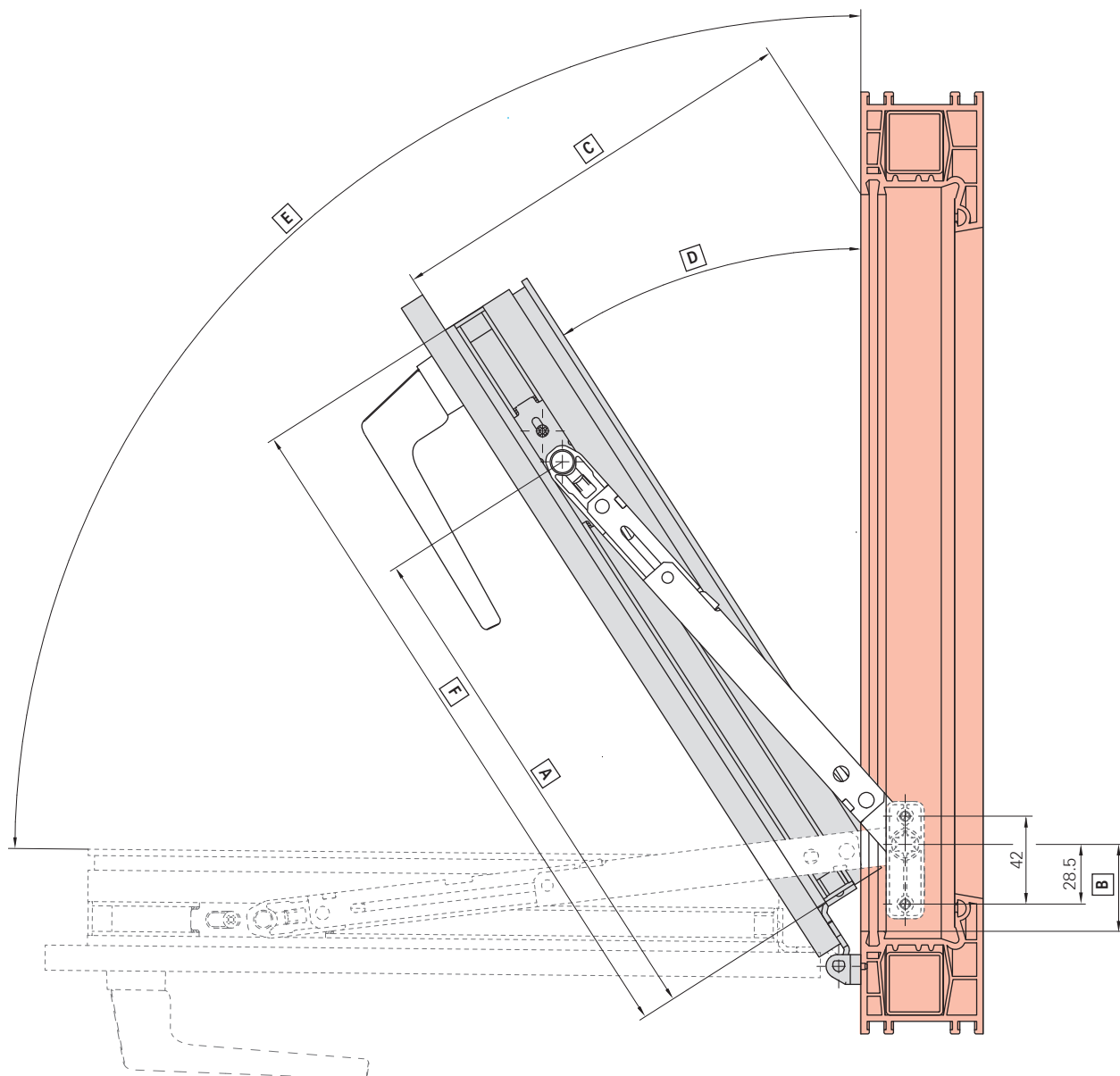
[E] From **520 mm** all hinge sides

- 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 distance restrictor position

[D] Opening angle restrictor position

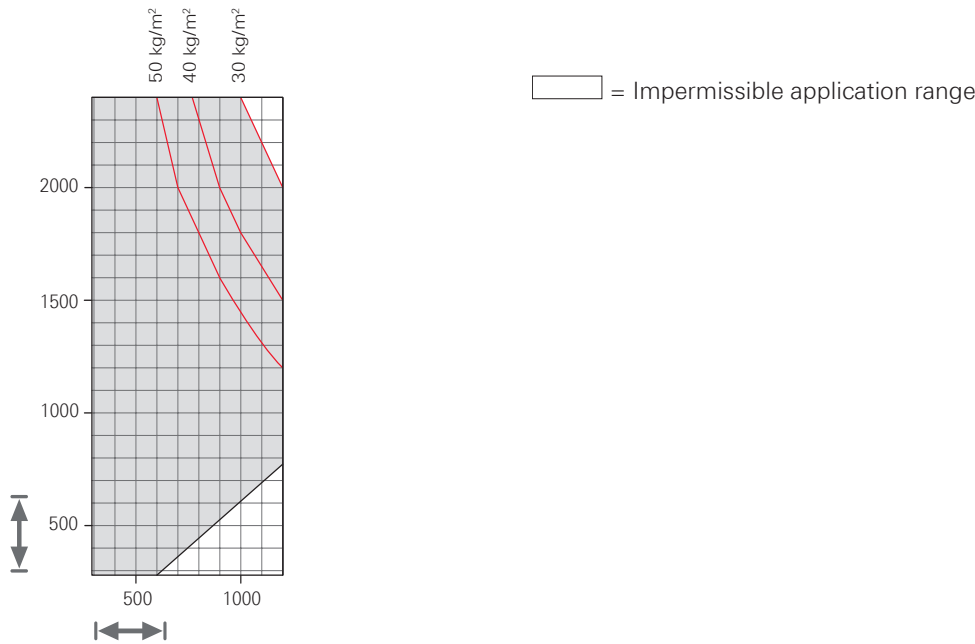
[E] Opening angle cleaning position

[F] Sash rebate height (SRH)

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



2.2.5 Turn-Only overlap hinge for rectangular windows



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

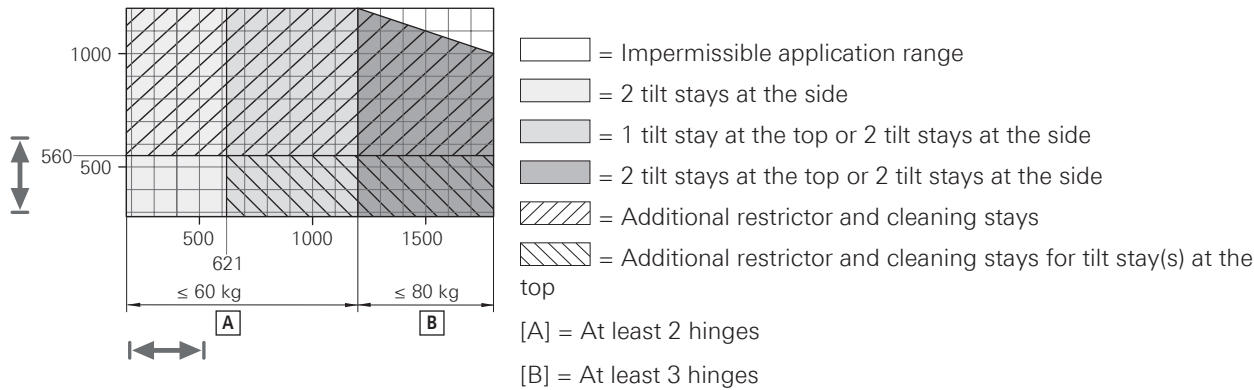
Application range

Basic security		
	Sash rebate width (SRW)	290 – 1200 mm
	Sash rebate height (SRH)	280 – 2400 mm
	Sash weight (S.kg)	max. 80 kg



INFO
Turn-Only / Tilt-Only overlap hinge P in Turn-Only sashes only in conjunction with corner hinge / pivot rest.

2.2.6 Tilt-Only overlap hinge for rectangular windows



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 (SRW)	180 – 1800 mm [2]
	Sash rebate height (SRH)	290 – 1200 mm
	Sash weight (S.kg)	max. 60 or 80 kg

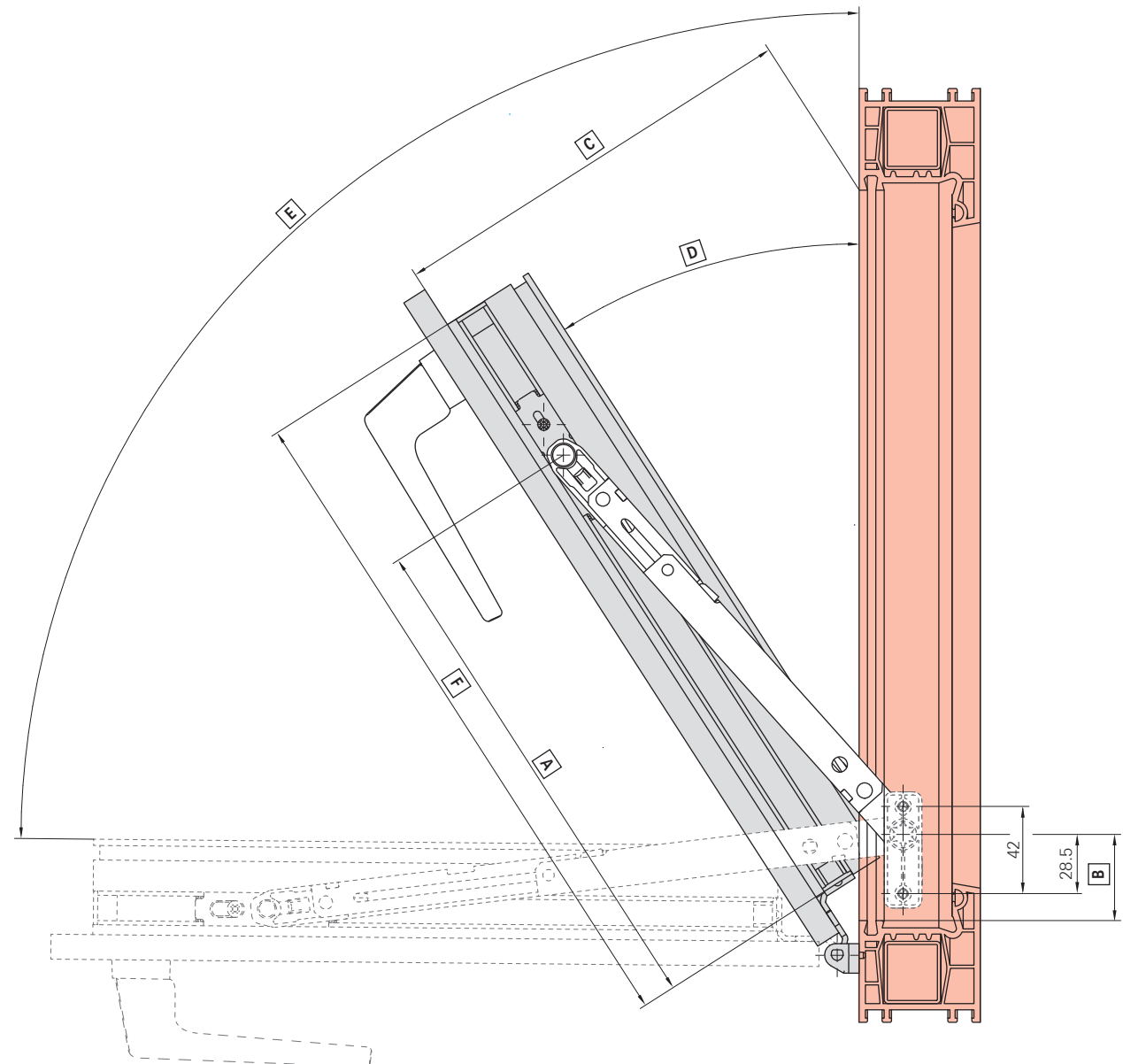


INFO

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

Restrictor and cleaning stays up to max. 60 kg.

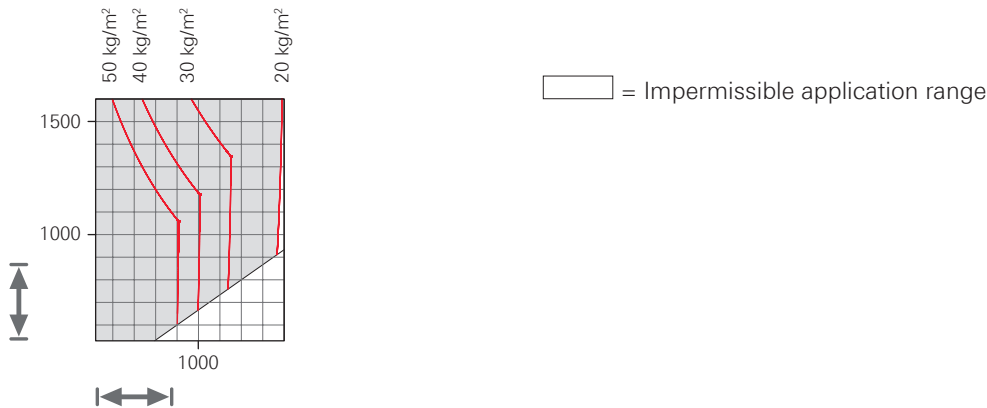
[2] SRW 180 – 449 with Turn-Only / Tilt-Only espagnolette



- [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 mm	1	250 mm	45 mm	180 – 245 mm	33°	90°
401 – 560 mm	1	280 mm	75 mm	205 – 275 mm	27°	67°
561 – 700 mm	2	525 mm	170 mm	225 – 277 mm	22°	88°
701 – 850 mm	2	575 mm	220 mm	244 – 292 mm	19°	72°
851 – 1200 mm	2	625 mm	270 mm	261 – 363 mm	17°	62°

2.2.7 Comfort 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	520 – 1400 mm
	Sash rebate height	530 – 1600 mm
	Sash weight	Max. 50 kg



INFO

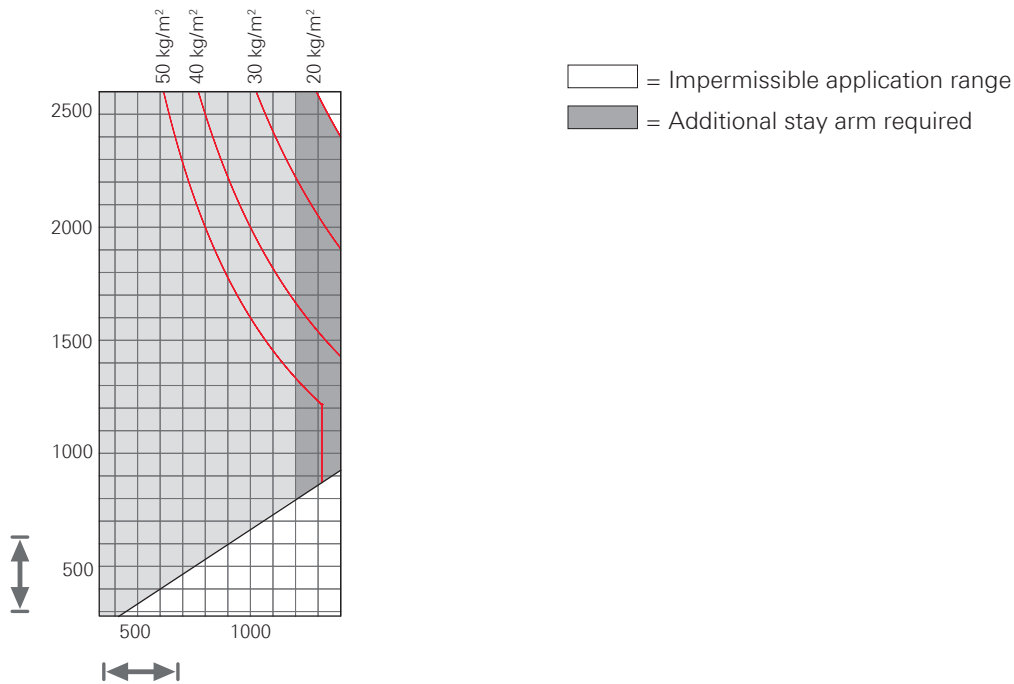
Observe directive TBDK for tractive force values as a function of the sash weights.
Further information can be found at www.beschlagindustrie.de.



2.3 Hinge side Designo (HA 13)

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

2.3.1.1 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

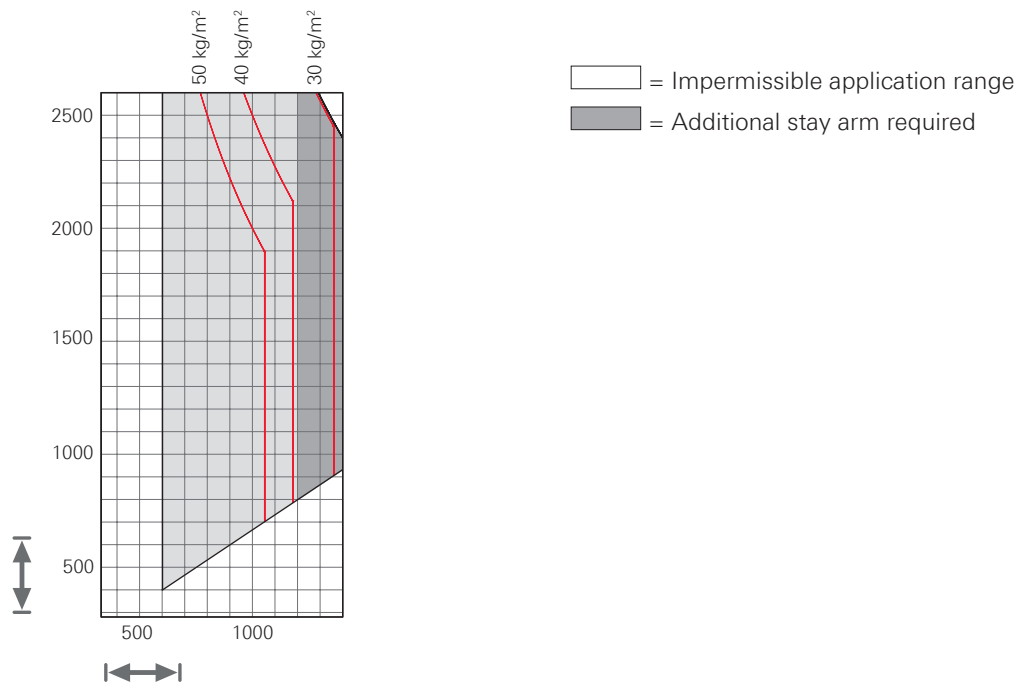


INFO

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

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

2.3.1.2 100 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	Security
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	600 – 1400 mm	600 – 1400 mm	600 – 1400 mm
	Sash rebate height	400 – 2600 mm	400 – 2600 mm	490 – 2400 mm
	Sash weight	Max. 100 kg	Max. 100 kg	Max. 100 kg



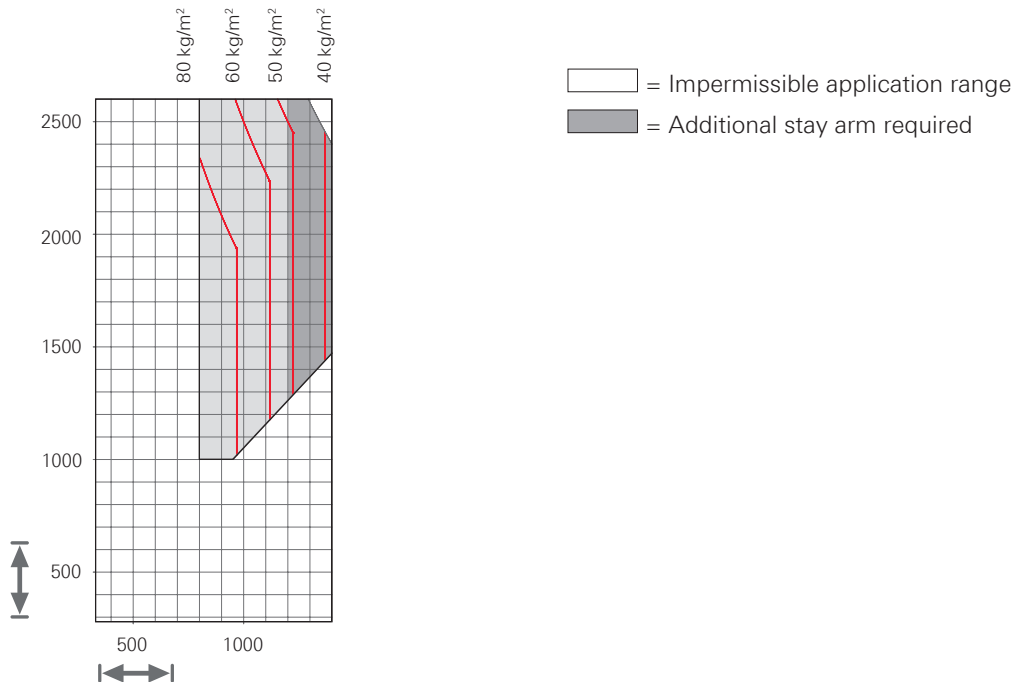
INFO

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

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



2.3.1.3 Load transfer from 80 to 150 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	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

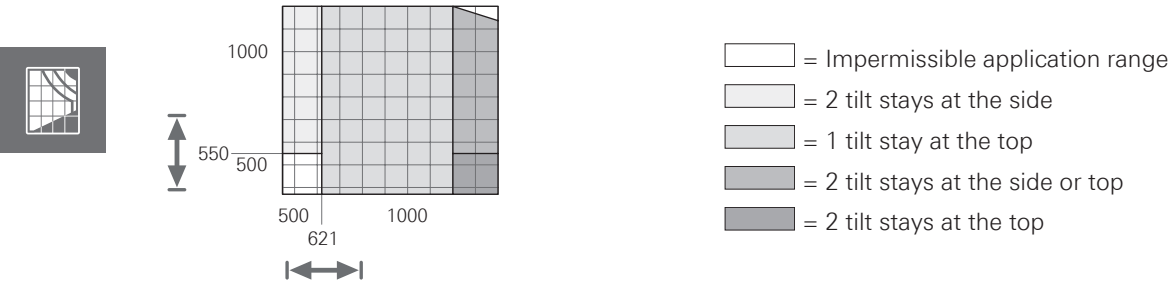
If the sash weight is > 130 kg, set the stay arm's tilt distance restriction to 80 mm.



INFO

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

2.3.2 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.beschlagindustrie.de.

Hinge side P

T&T espagnolette, VT – fixed handle height	56
T&T espagnolette – centred / variable handle height	102

Hinge side Designo (HA 13)

T&T espagnolette, VT – fixed handle height	136
T&T espagnolette – centred / variable handle height	170

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 and RC 2 N security classes refer to the entire system.
- The hardware combinations 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.

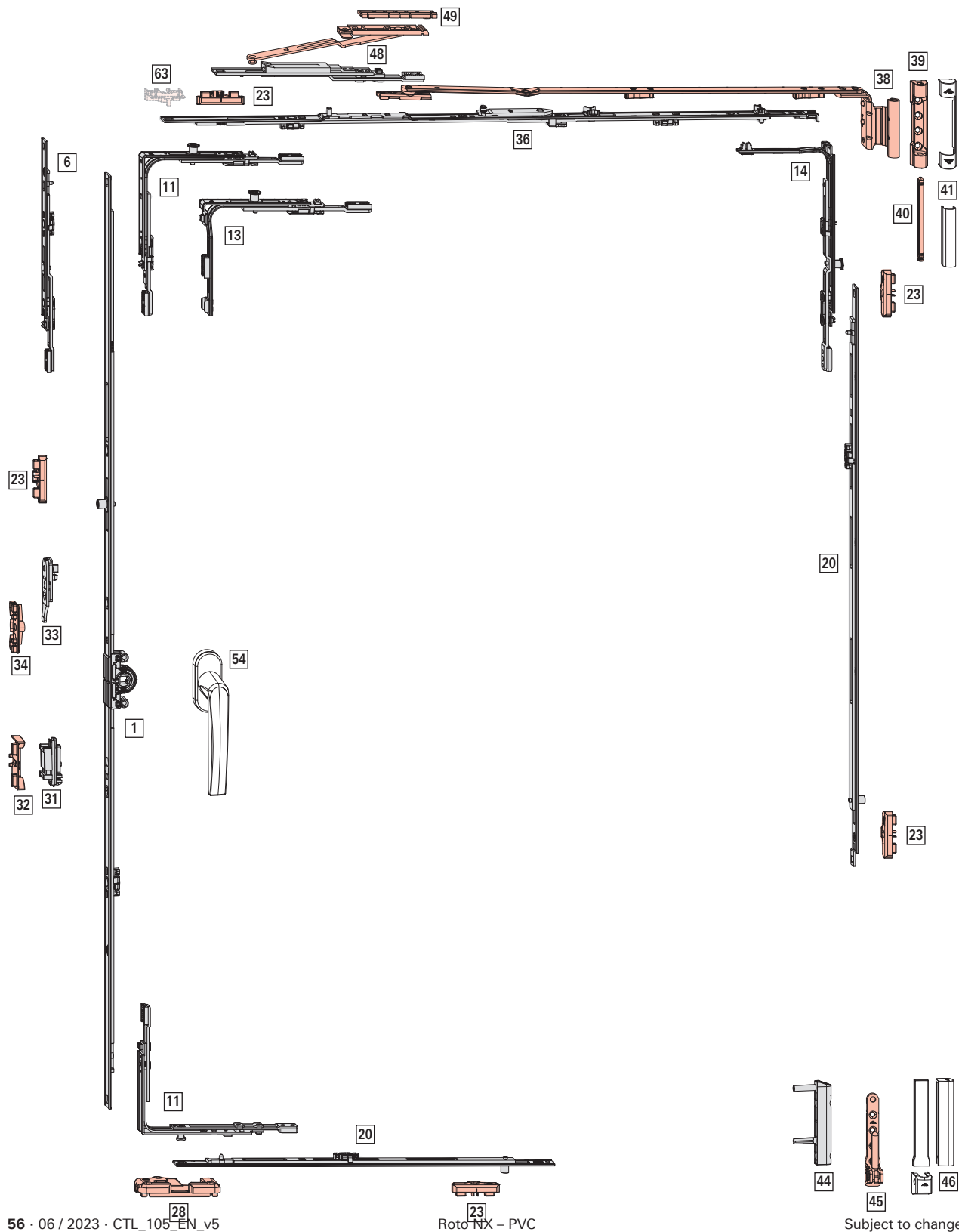


3.1 Hinge side P

3.1.1 T&T espagnolette, VT – fixed handle height

3.1.1.1 Tilt&Turn hardware

3.1.1.1.1 Basic security





Position	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Multipart centre lock – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Multipart centre lock – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-specific) → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</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

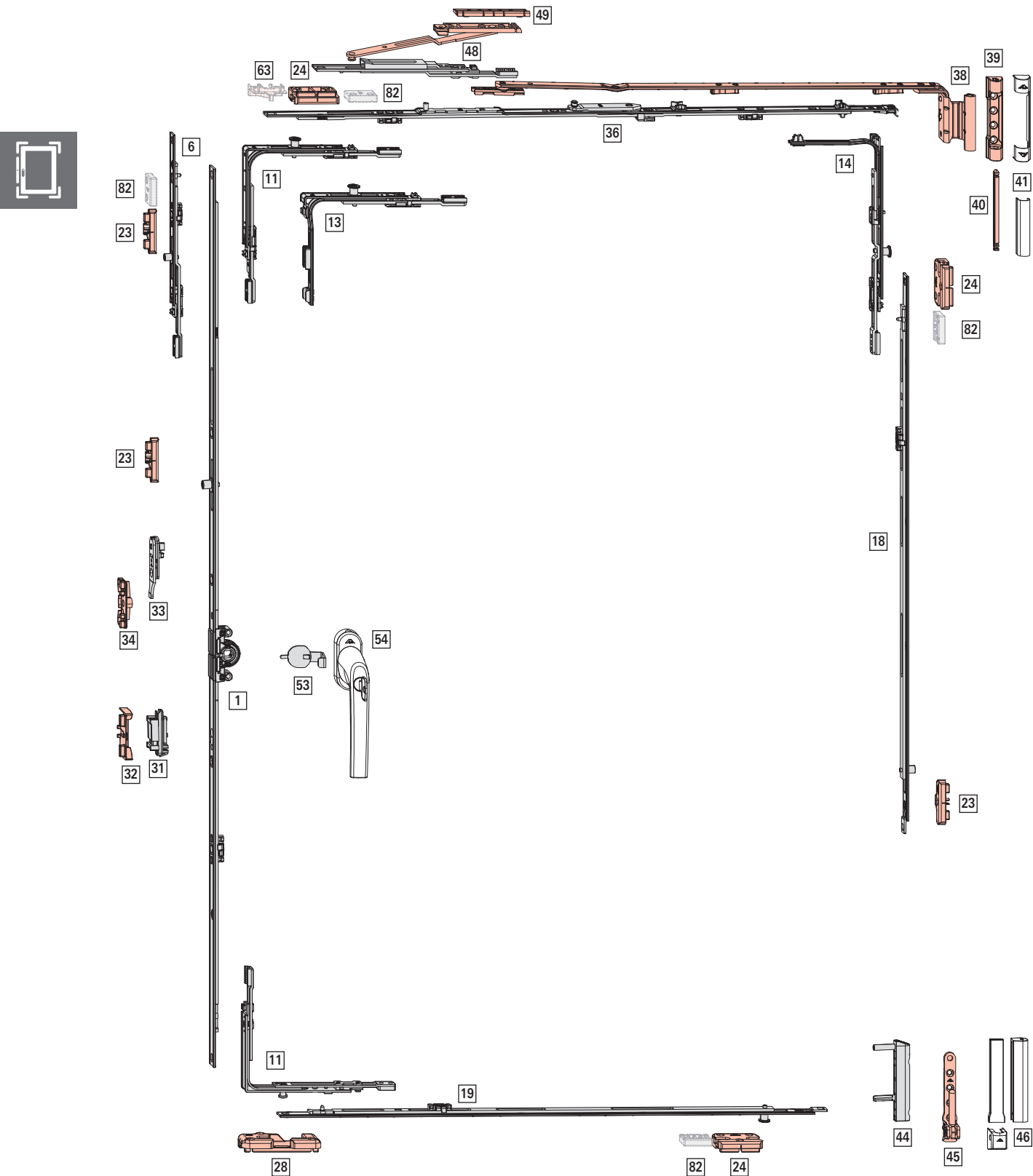
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3.1.1.1.2 RC 1 N





Position	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Multipart centre lock – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Multipart centre lock – security → <i>from page 319</i>
[19]	Multipart centre lock – security → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Striker, security → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-specific) → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

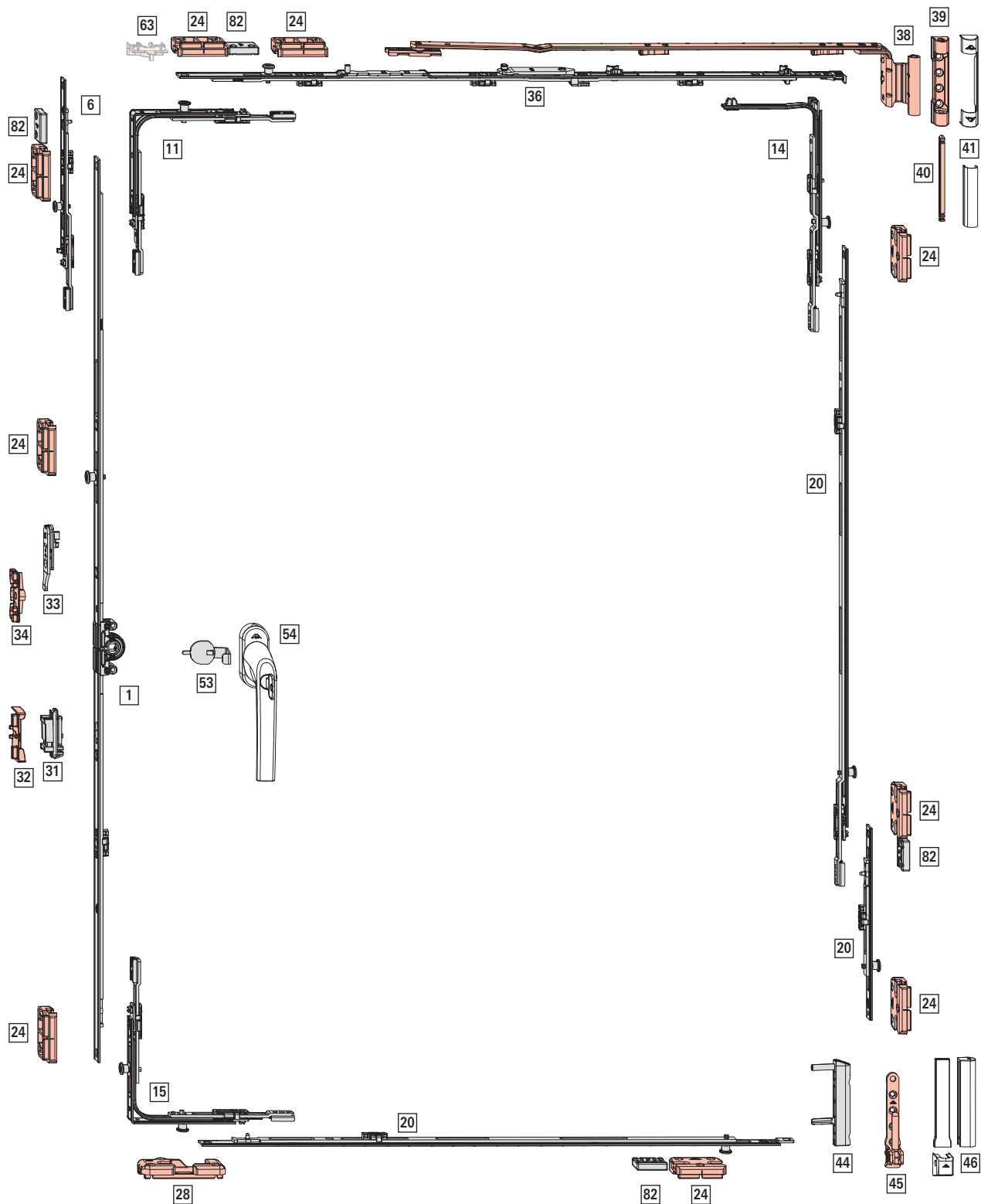
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3.1.1.1.3 RC 2 / RC 2 N





Position	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Multipart centre lock – security → <i>from page 319</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[20]	Multipart centre lock – security → <i>from page 319</i>
[24]	Striker, security → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	320 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

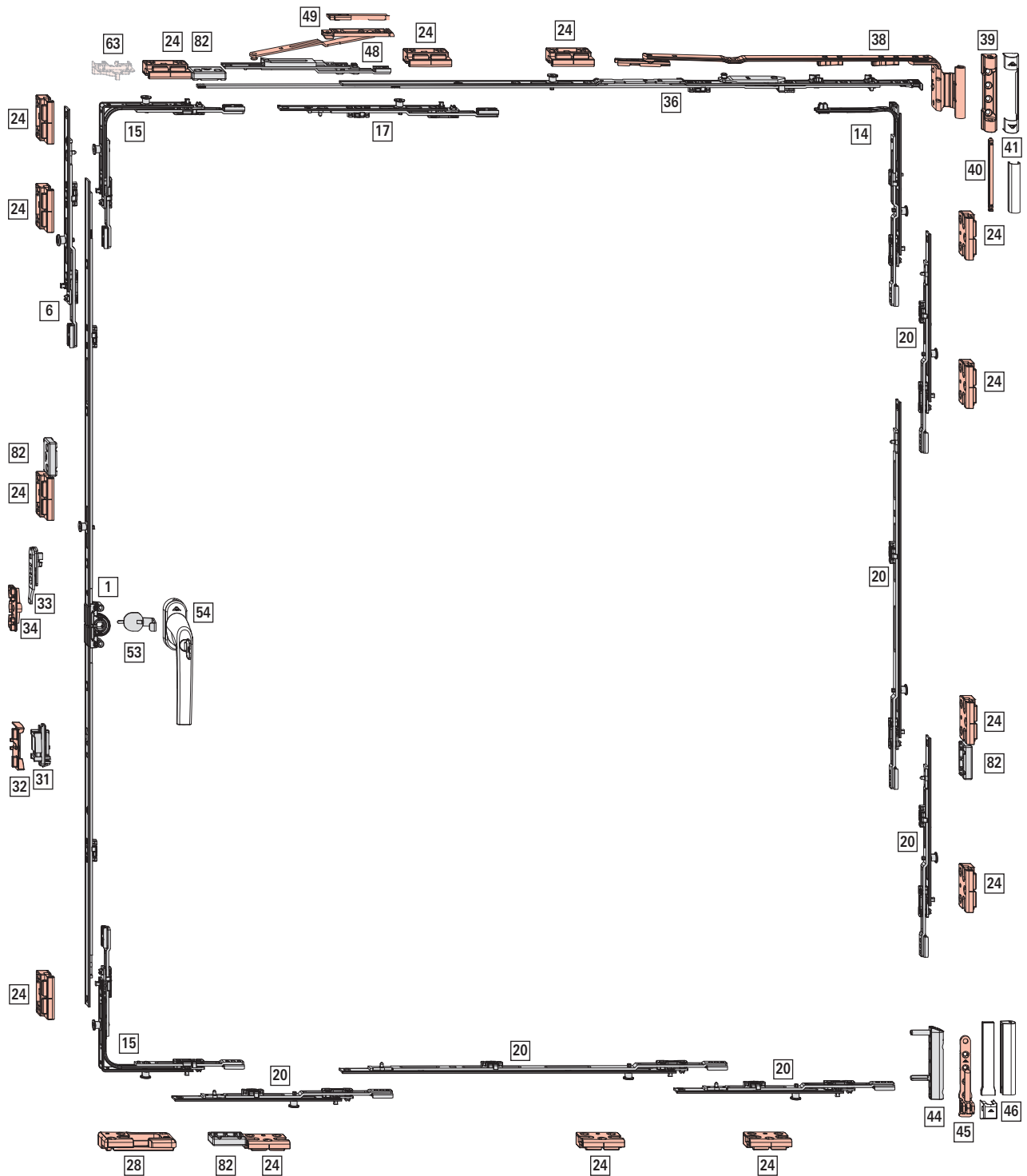
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3.1.1.1.4 RC 3





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[17]	Centre lock, multipart – security → <i>from page 319</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</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

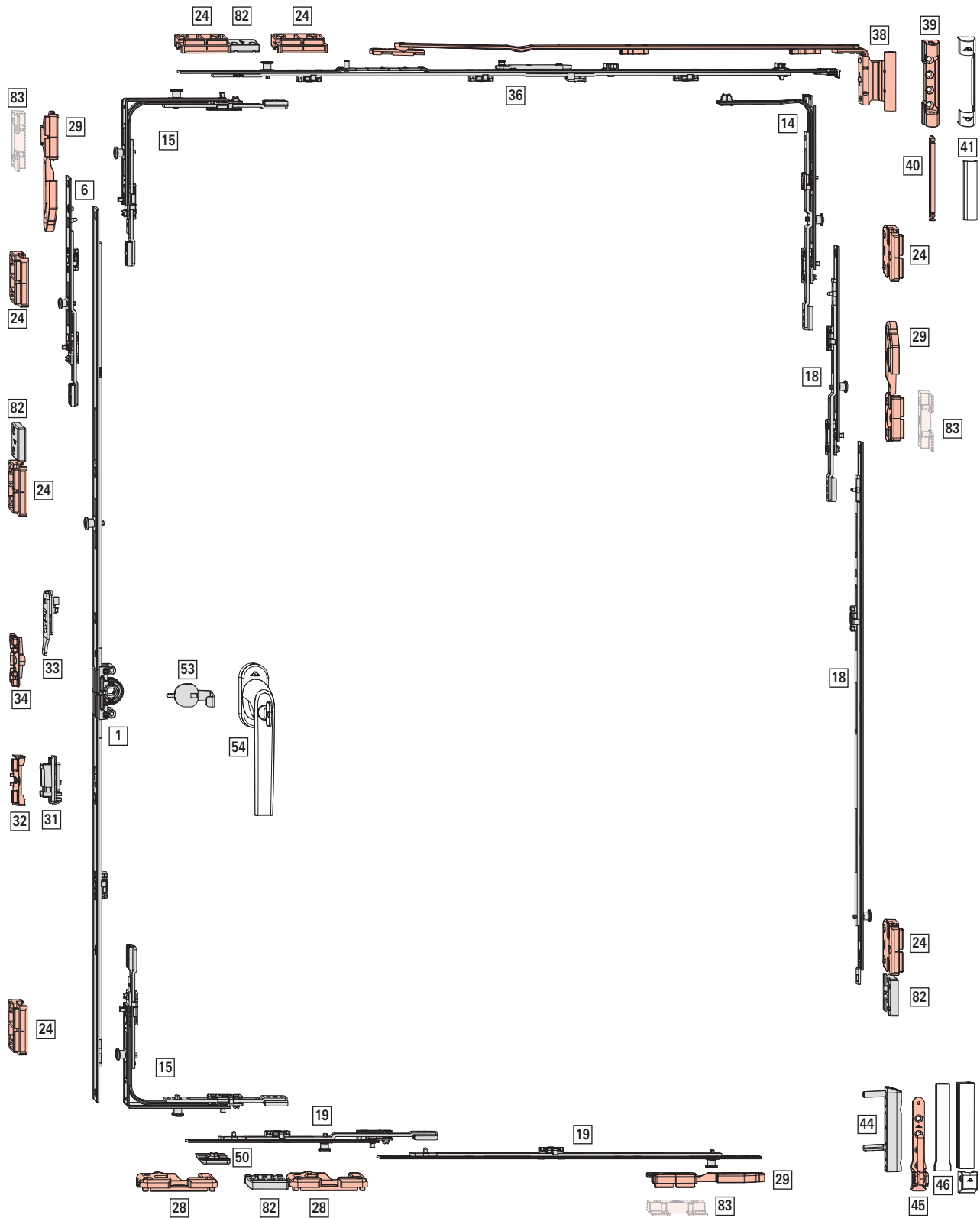
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3.1.1.1.5 TiltSafe RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, multipart – security → <i>from page 319</i>
[19]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[29]	Security striker for tilt ventilation → <i>from page 361</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[50]	Rebate run-up block → <i>from page 415</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 411</i>
[83]	TiltSafe protective support (optional) → <i>from page 361</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	410 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

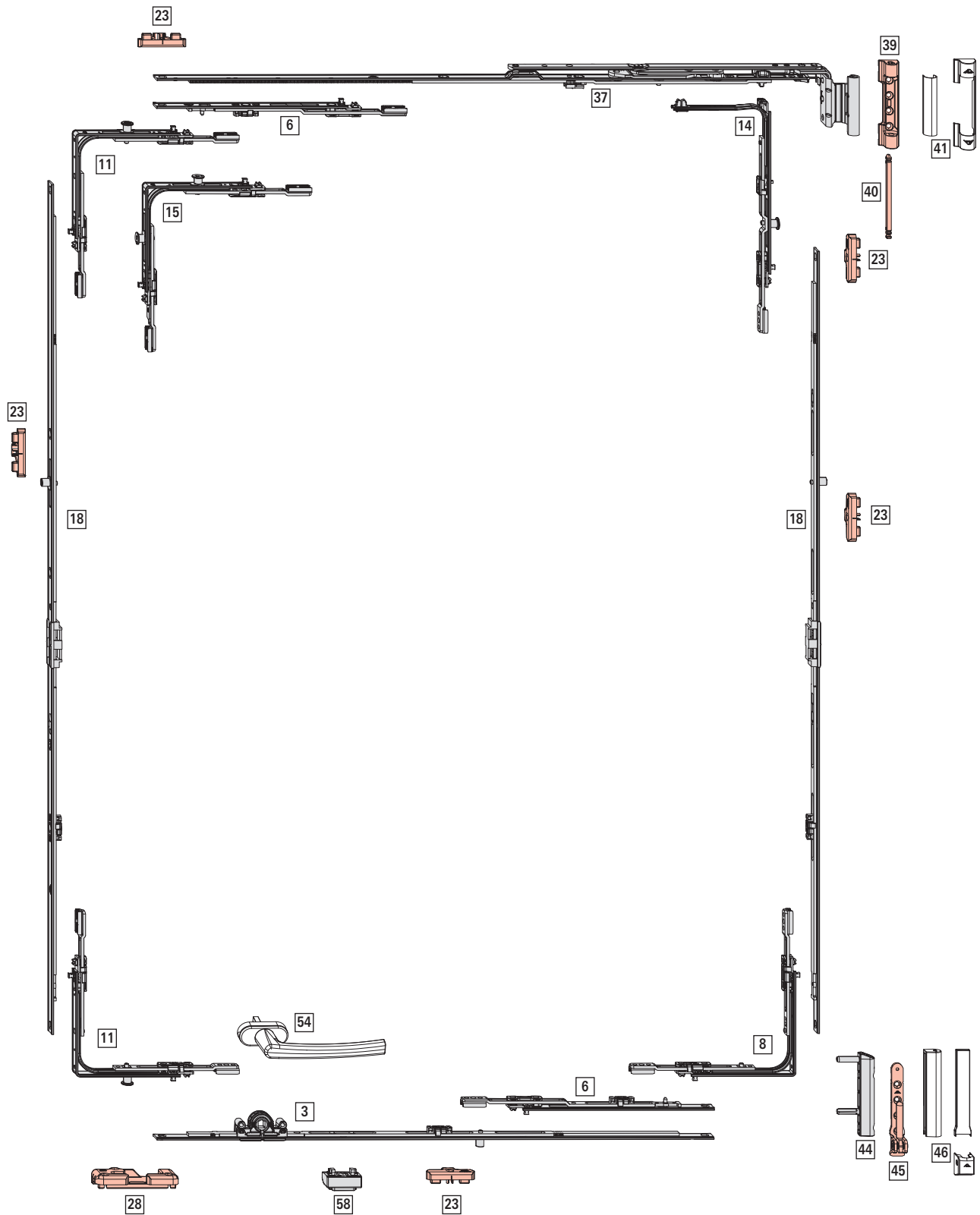
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3.1.1.1.6 Comfort – basic security





Item	Description
[3]	T&T espagnolette – comfort – fixed handle height → <i>from page 236</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[8]	Corner drive, standard, without cam → <i>from page 266</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, comfort → <i>from page 328</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[37]	Scissor stay, forcibly controlled → <i>from page 298</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[54]	Handle (see catalogue CTL_1)
[58]	Run-up block with mishandling device → <i>from page 415</i>

Application range

Basic security		
	Sash rebate width (SRW)	520 – 1400 mm
	Sash rebate height (SRH)	530 – 1600 mm
	Sash weight (S.kg)	max. 50 kg



INFO

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3.1.1.1.7 Pitched window – basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[8]	Corner drive for pitched windows → <i>from page 271</i>
[9]	Corner drive for arched windows → <i>from page 271</i>
[11]	Corner drive, standard → <i>from page 266</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[22]	Arched component → <i>from page 327</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[54]	Handle (see catalogue CTL_1)
[76]	End piece for pitched stay arm → <i>from page 424</i>
[78]	Stay arm for pitched windows → <i>from page 288</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



INFO

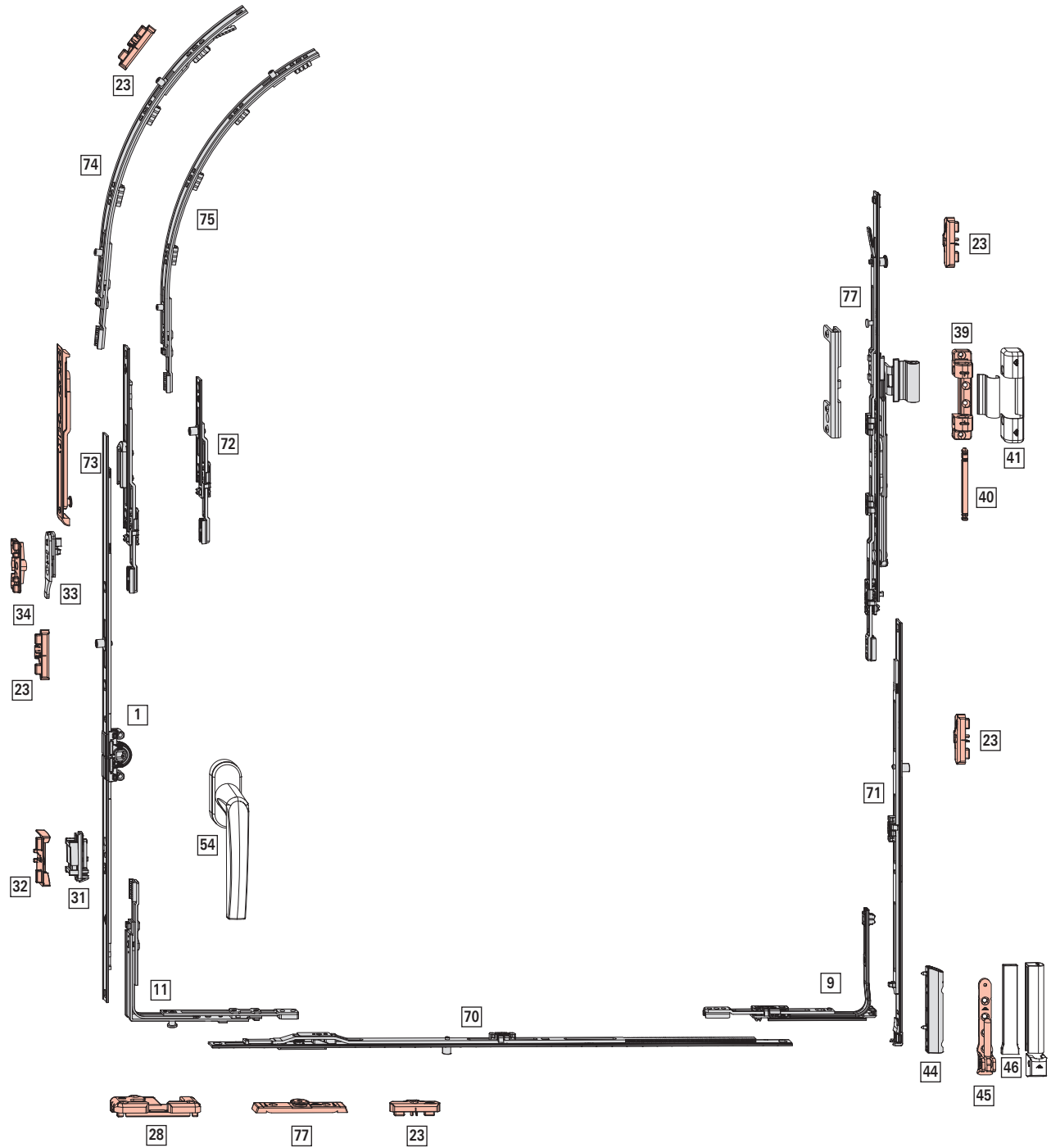
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3.1.1.1.8 Arched window – basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[9]	Corner drive for arched windows → <i>from page 271</i>
[11]	Corner drive, standard → <i>from page 266</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[54]	Handle (see catalogue CTL_1)
[70]	Arched component, horizontal → <i>from page 327</i>
[71]	Arched component, vertical → <i>from page 327</i>
[72]	Arched espagnolette connector → <i>from page 246</i>
[73]	Arched additional scissor stay → <i>from page 371</i>
[74]	Arched centre lock, standard → <i>from page 326</i>
[75]	Arched centre lock, couplable → <i>from page 326</i>
[77]	Arched sash stay → <i>from page 290</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1300 mm
	Sash rebate height (SRH)	510 – 1900 mm
	Sash weight (S.kg)	Max. 80 kg



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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 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker TiltFirst → <i>from page 353</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm TiltFirst → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</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



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3.1.1.3 Turn-Only hardware

3.1.1.3.1 Basic security





Position	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Multipart centre lock – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[19]	Multipart centre lock – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Striker, security → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[52]	Travel restrictor → <i>from page 424</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

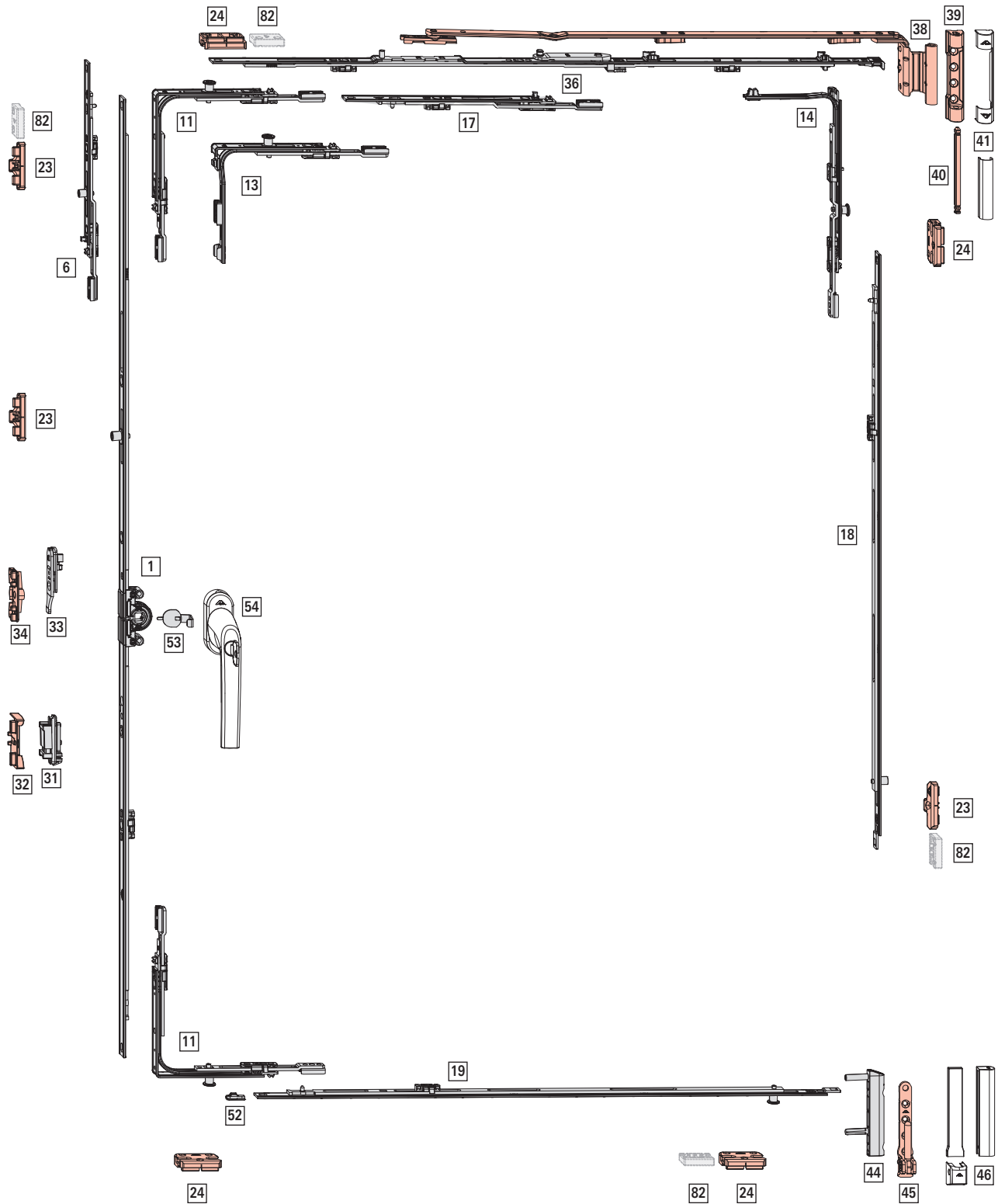
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3.1.1.3.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard → <i>from page 318</i>
[18]	Centre lock, multipart – standard → <i>from page 318</i>
[19]	Centre lock, multipart – security → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[52]	Travel restrictor → <i>from page 424</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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3.1.1.3.3 RC 2 / RC 2 N





Position	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Multipart centre lock – security → <i>from page 319</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[20]	Multipart centre lock – security → <i>from page 319</i>
[24]	Striker, security → <i>from page 357</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[52]	Travel restrictor → <i>from page 424</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	320 – 1400 mm
	Sash rebate height (SRH)	600 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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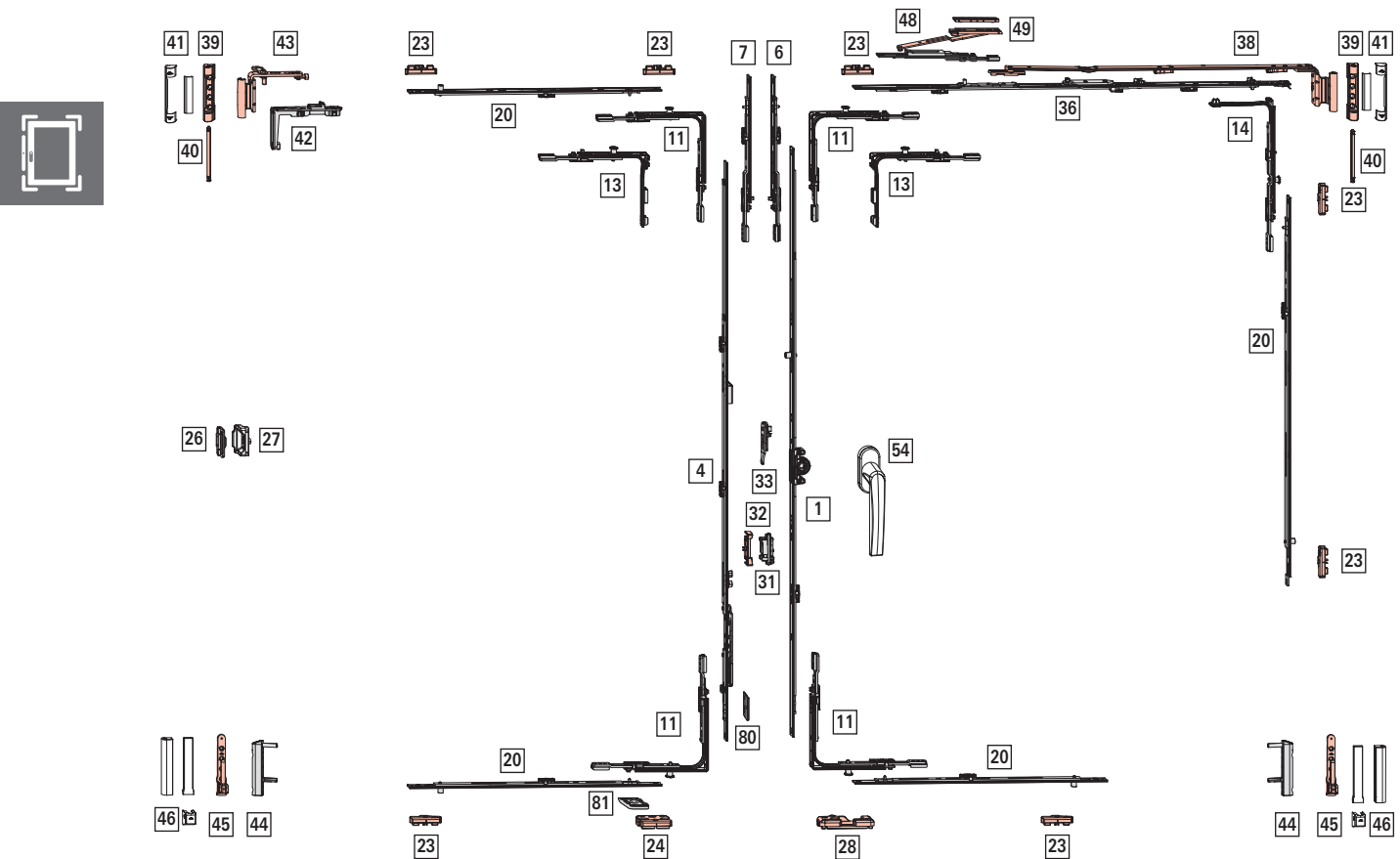
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3.1.1.4 Floating-mullion hardware – standard

3.1.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 412</i>
[81]	Run-up block → <i>from page 415</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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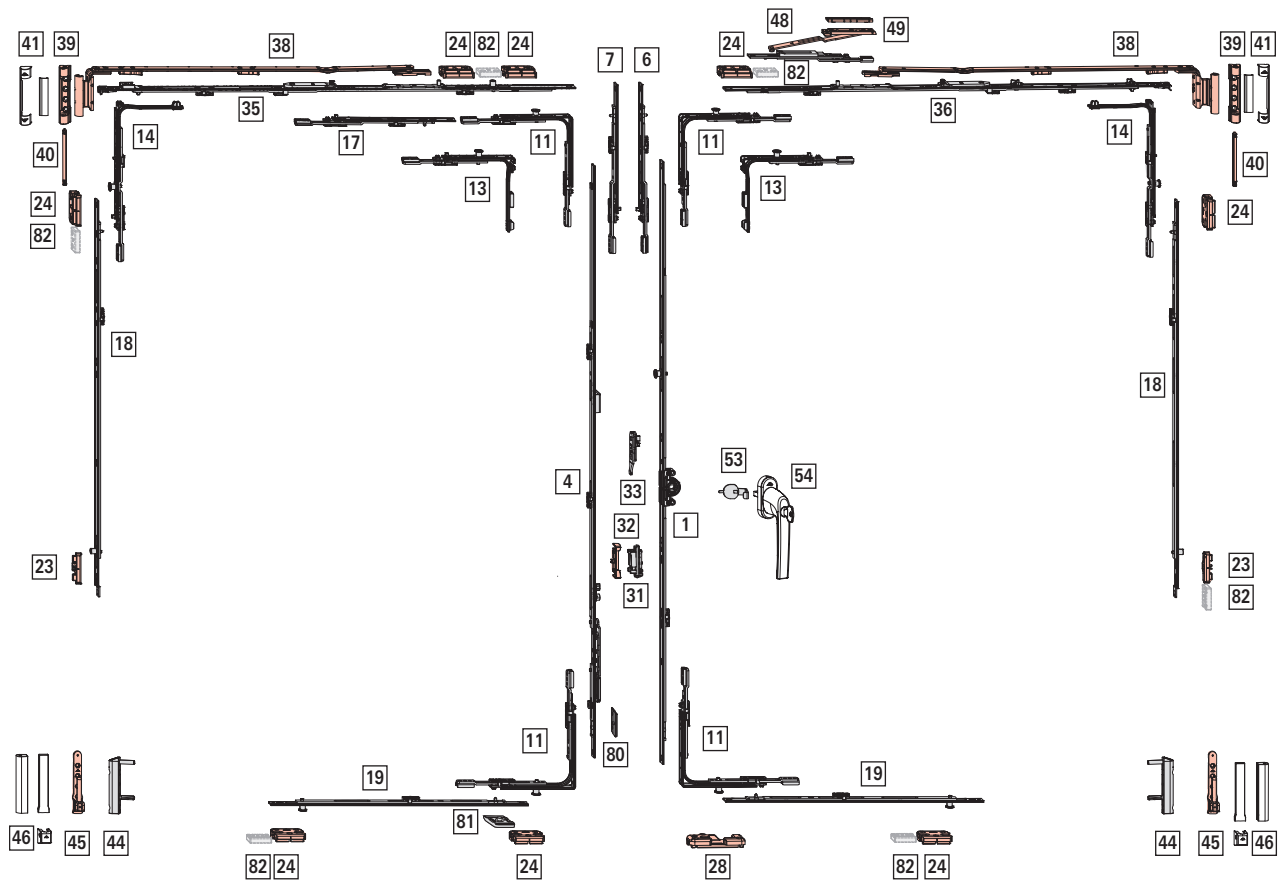


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3.1.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[20]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 282</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[80]	Fastening plate → <i>from page 412</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	280 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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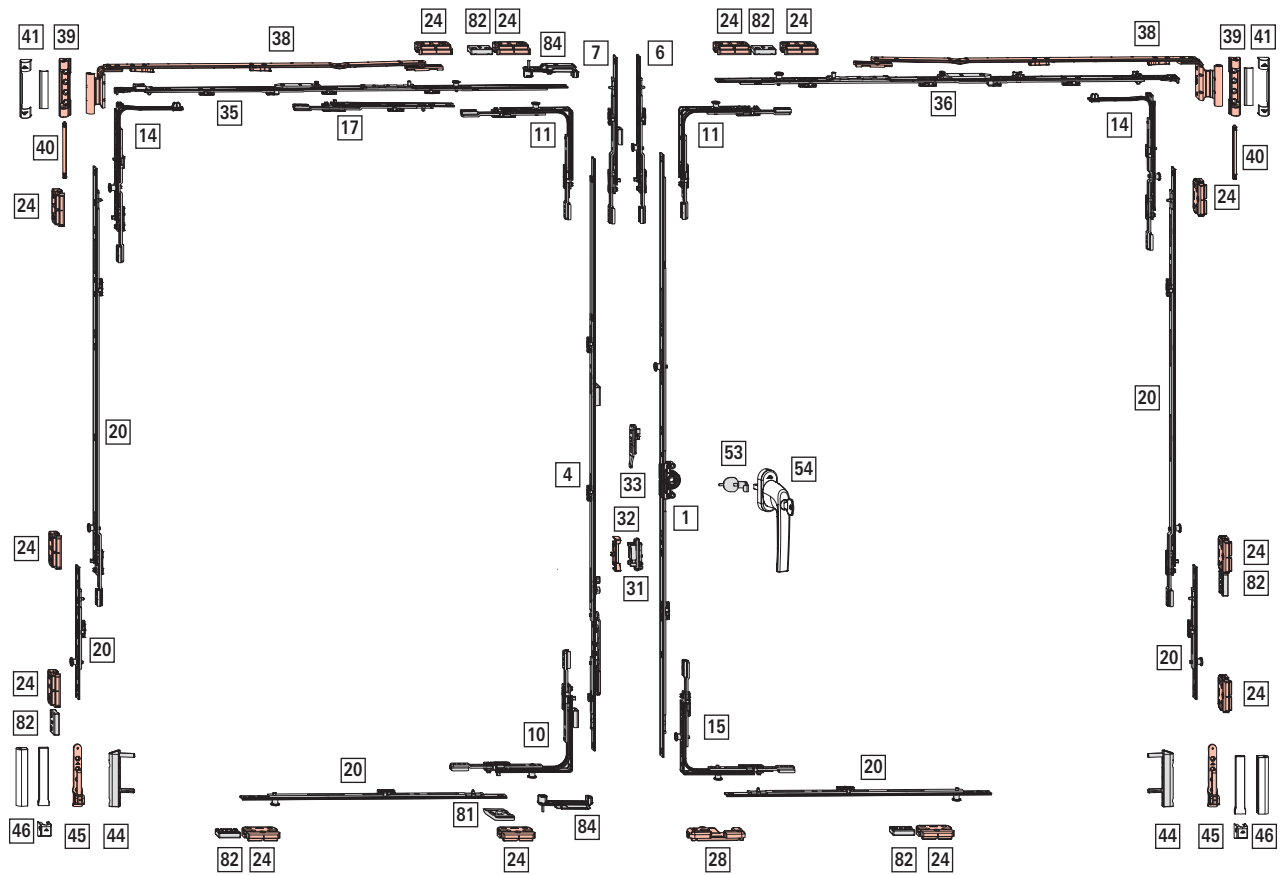
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3.1.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[10]	Floating-mullion corner drive → <i>from page 268</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 282</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>
[84]	Safety device for floating-mullion sash → <i>from page 410</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



INFO

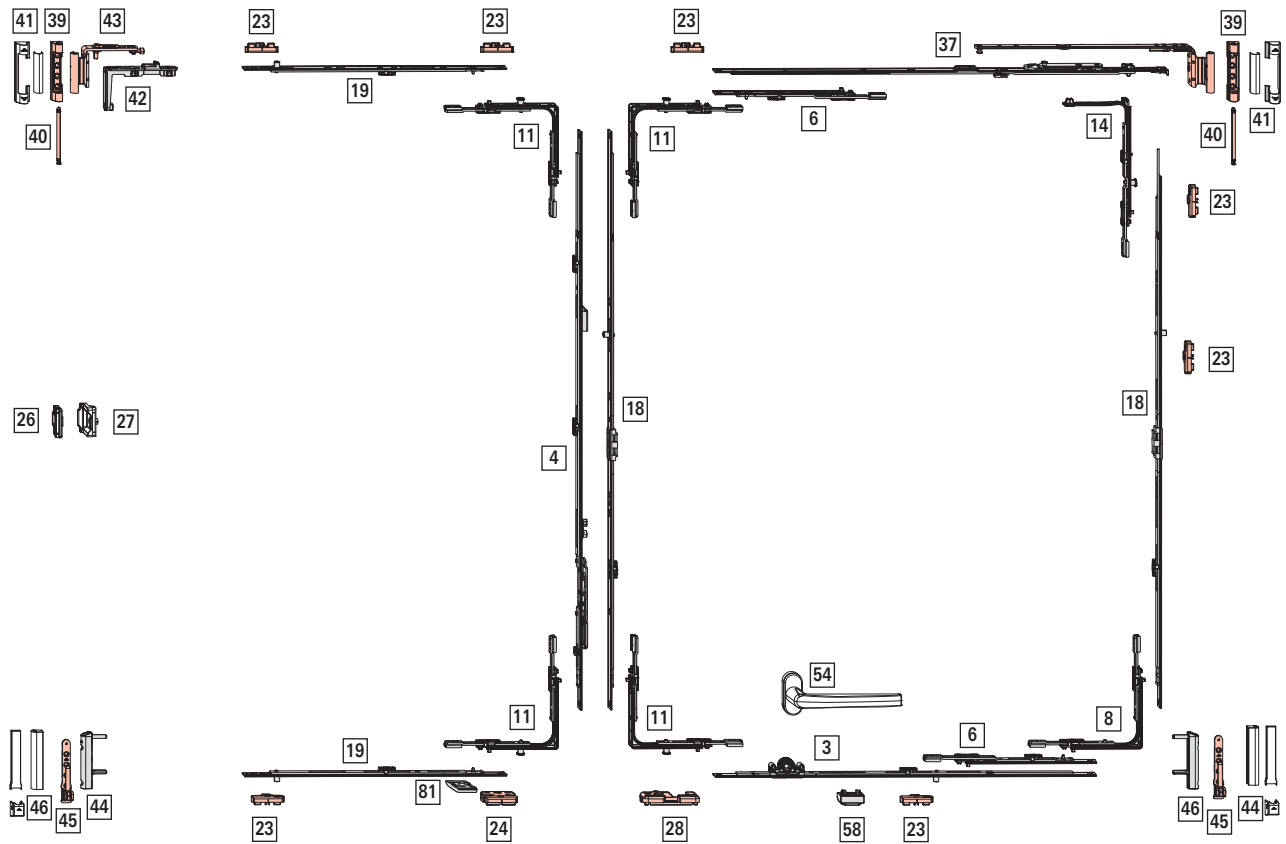
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3.1.1.4.4 Comfort – basic security





Item	Description
[3]	T&T espagnolette – comfort – fixed handle height → <i>from page 236</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[8]	Corner drive, standard, without cam → <i>from page 266</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, comfort → <i>from page 328</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[28]	Tilt striker → <i>from page 350</i>
[37]	Scissor stay, forcibly controlled → <i>from page 298</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[54]	Handle (see catalogue CTL_1)
[58]	Run-up block with mishandling device → <i>from page 415</i>
[81]	Run-up block → <i>from page 415</i>

Application range

Basic security		
	Sash rebate width (SRW)	520 – 1400 mm
	Sash rebate height (SRH)	800 – 1600 mm
	Sash weight (S.kg)	max. 50 kg



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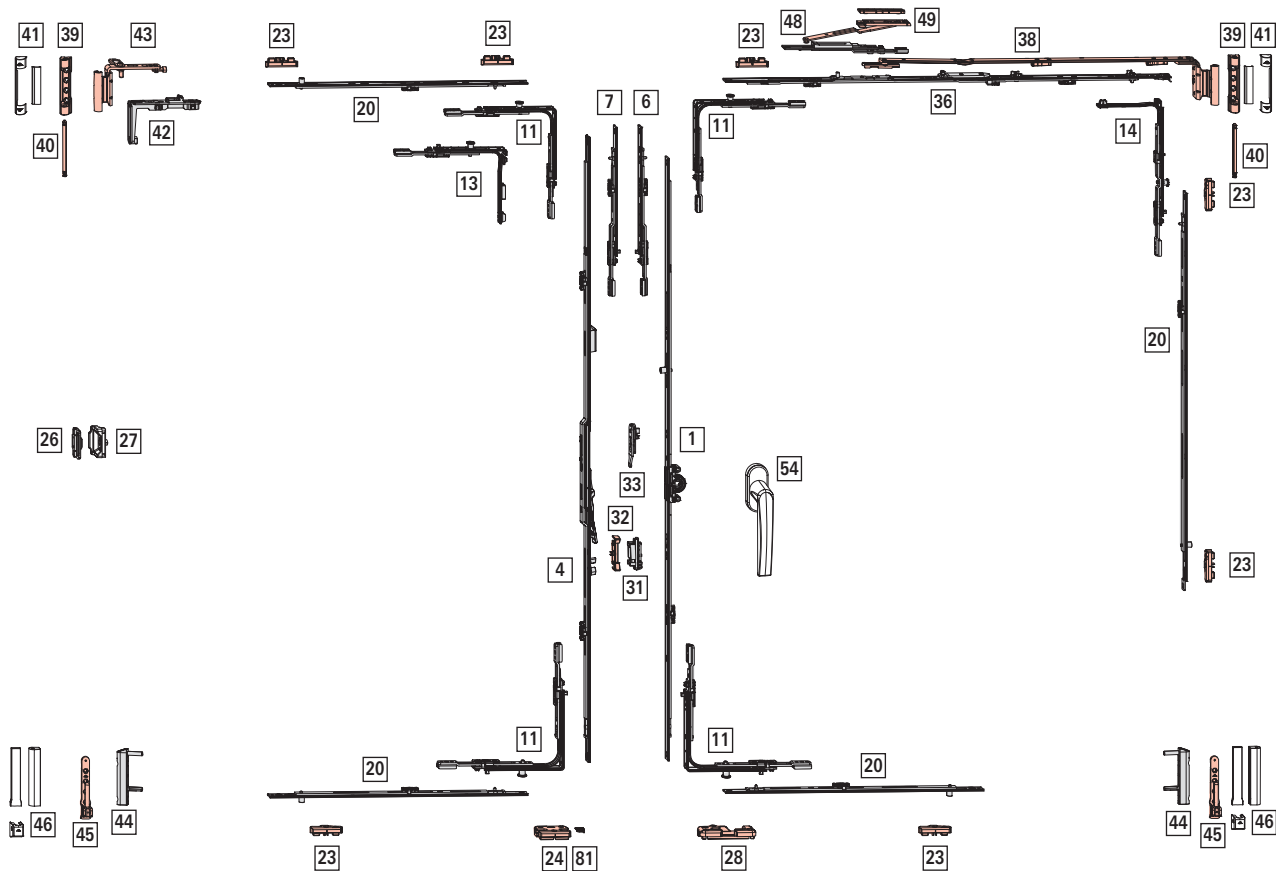
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3.1.1.5 Floating-mullion hardware – Plus

3.1.1.5.1 Basic security





Position	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[6]	Multipart centre lock – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Multipart centre lock – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Striker, security → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</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

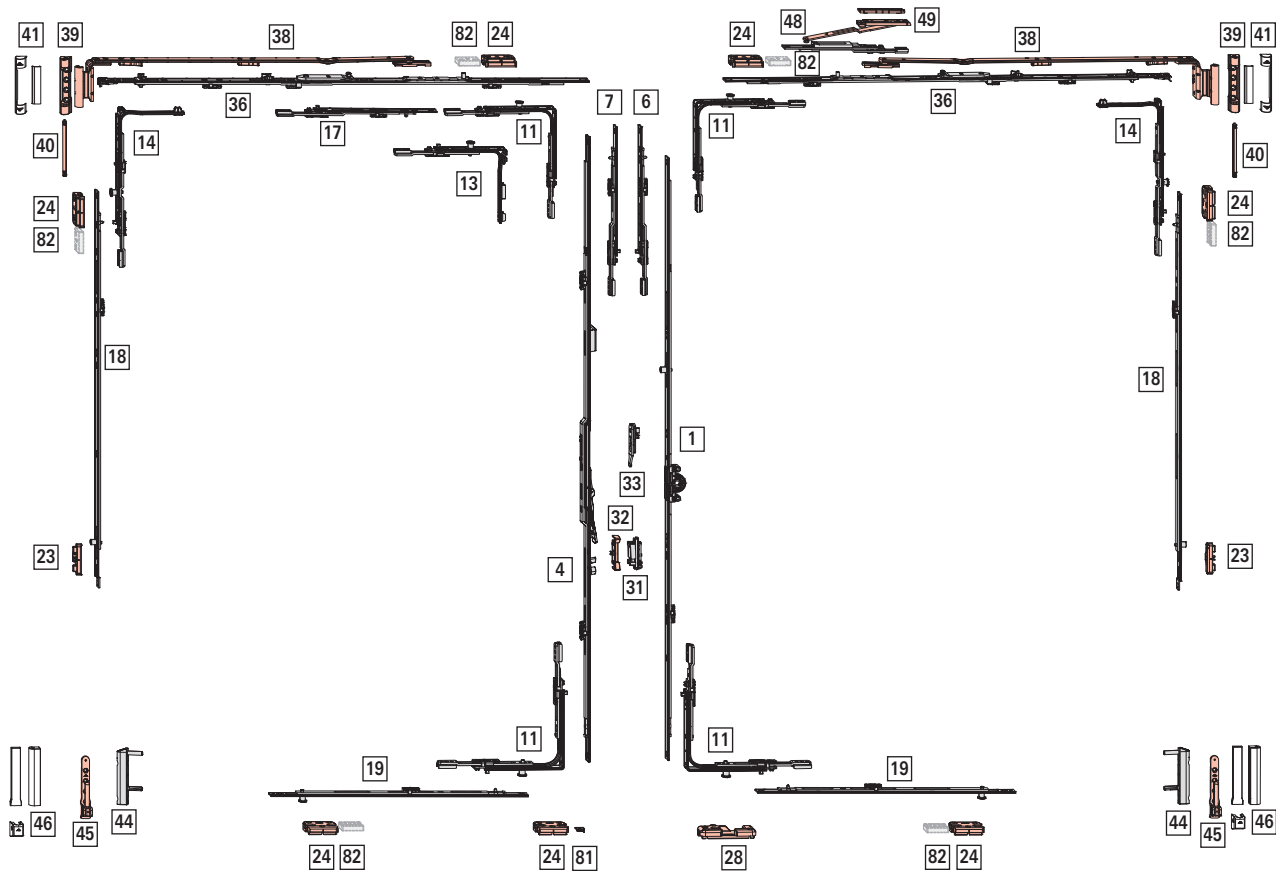
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3.1.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 282</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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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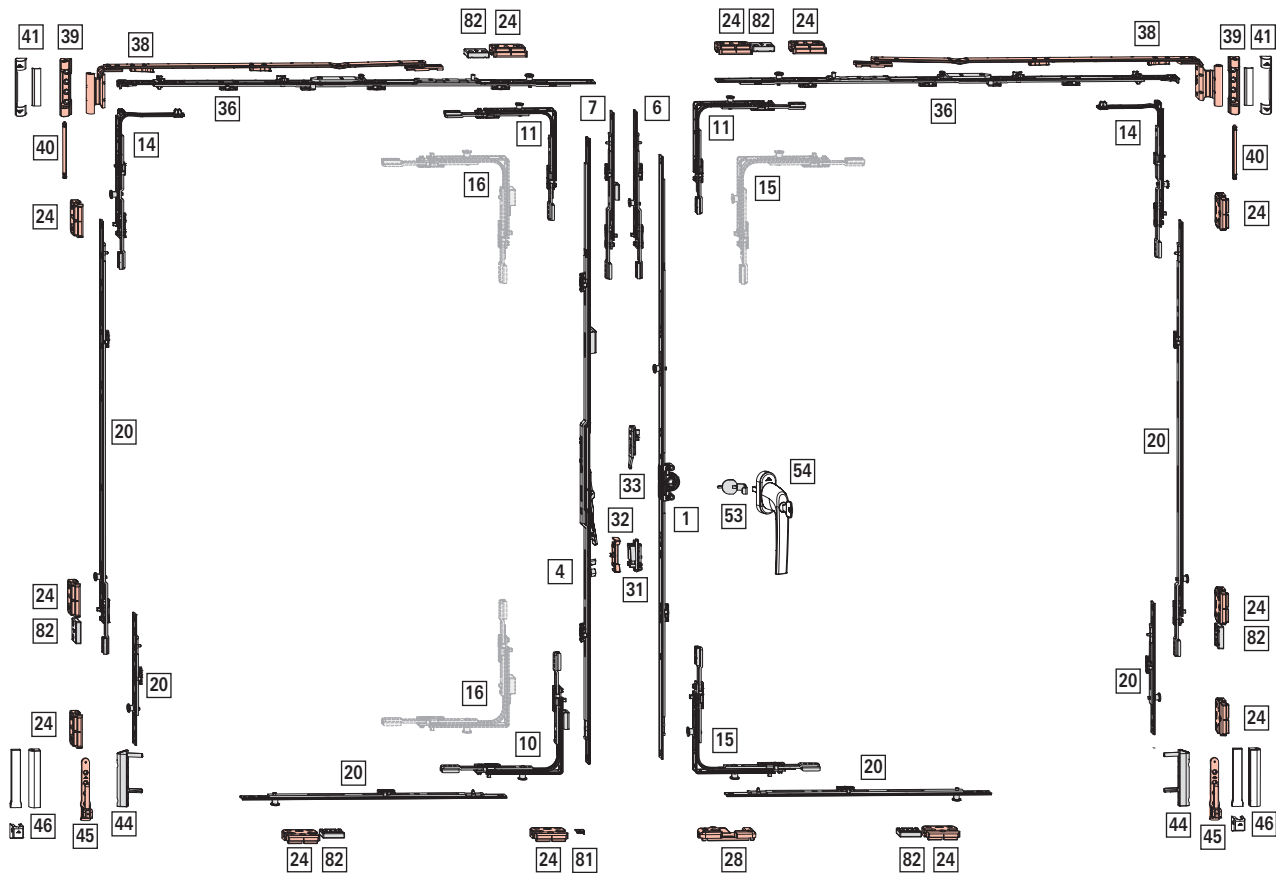


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3.1.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[10]	Floating-mullion corner drive → <i>from page 268</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[16]	Corner drive, floating mullion – slide guard (optional) → <i>from page 268</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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



INFO

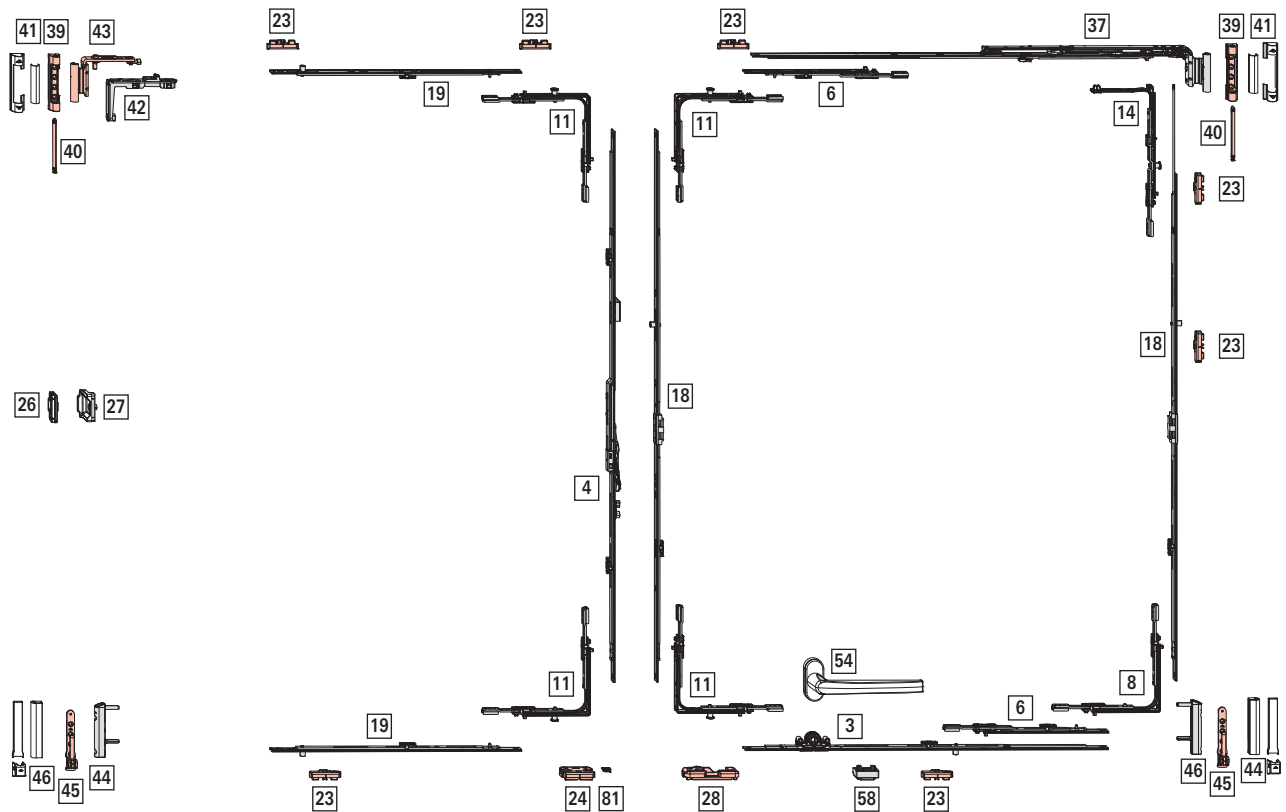
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3.1.1.5.4 Comfort – basic security





Item	Description
[3]	T&T espagnolette – comfort – fixed handle height → <i>from page 236</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[8]	Corner drive, standard, without cam → <i>from page 266</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, comfort → <i>from page 328</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[28]	Tilt striker → <i>from page 350</i>
[37]	Scissor stay, forcibly controlled → <i>from page 298</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[54]	Handle (see catalogue CTL_1)
[58]	Run-up block with mishandling device → <i>from page 415</i>
[81]	Run-up block → <i>from page 415</i>

Application range

Basic security		
	Sash rebate width (SRW)	520 – 1400 mm
	Sash rebate height (SRH)	800 – 1600 mm
	Sash weight (S.kg)	max. 50 kg



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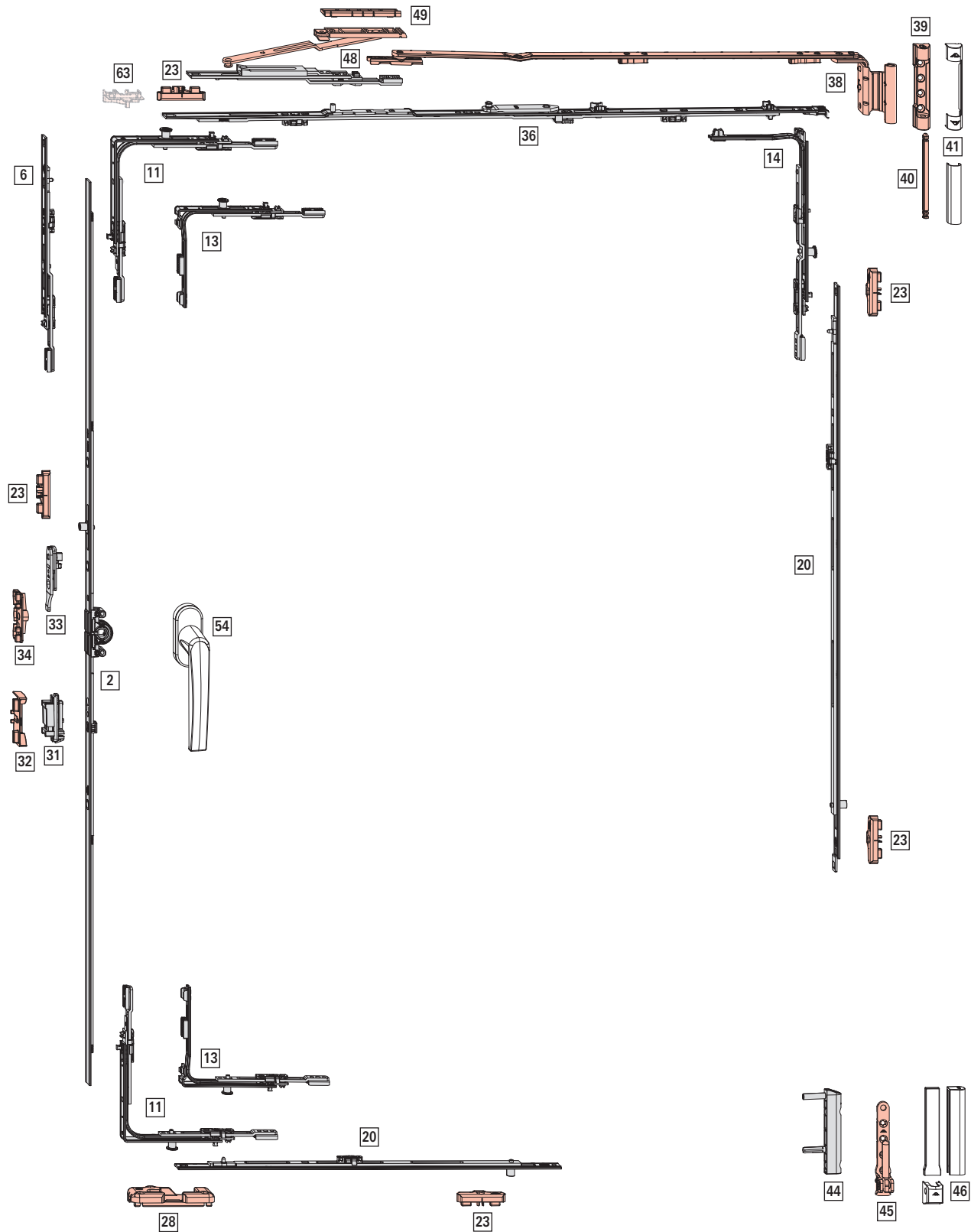


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3.1.2 T&T espagnolette – centred / variable handle height

3.1.2.1 Tilt&Turn hardware

3.1.2.1.1 Basic security





Position	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Multipart centre lock – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Multipart centre lock – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-specific) → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

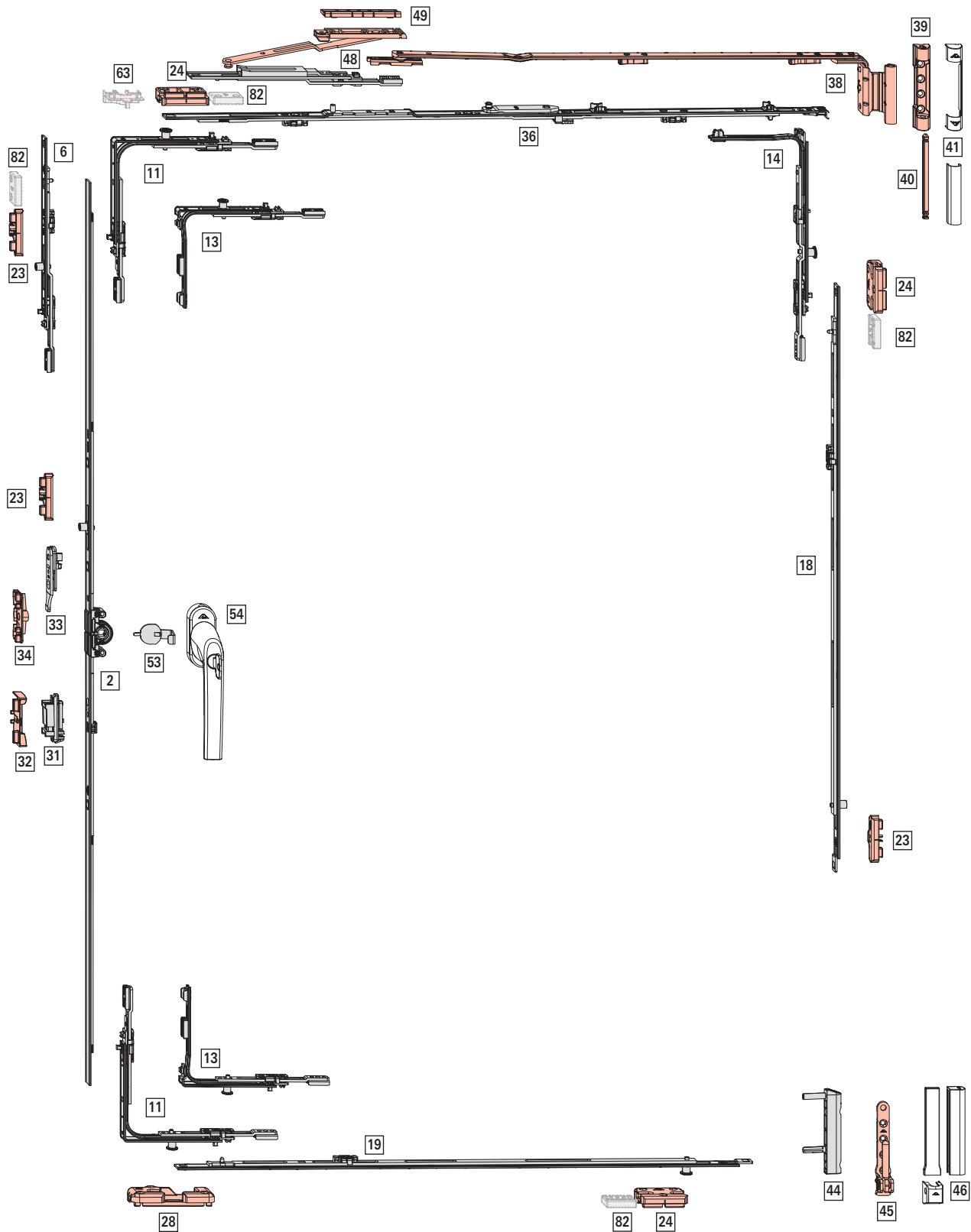
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3.1.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – security → <i>from page 319</i>
[19]	Centre lock, multipart – security → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

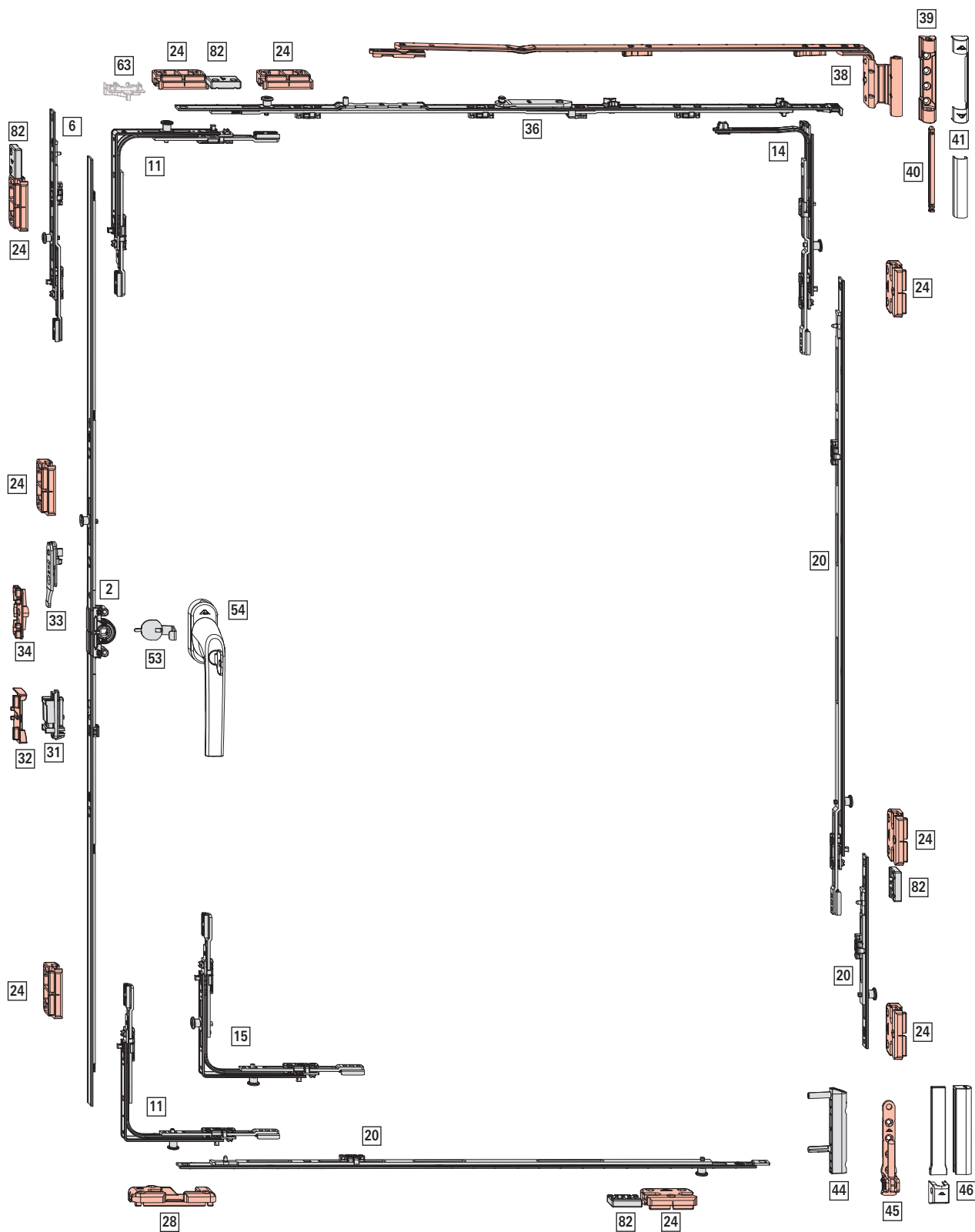
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3.1.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	320 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

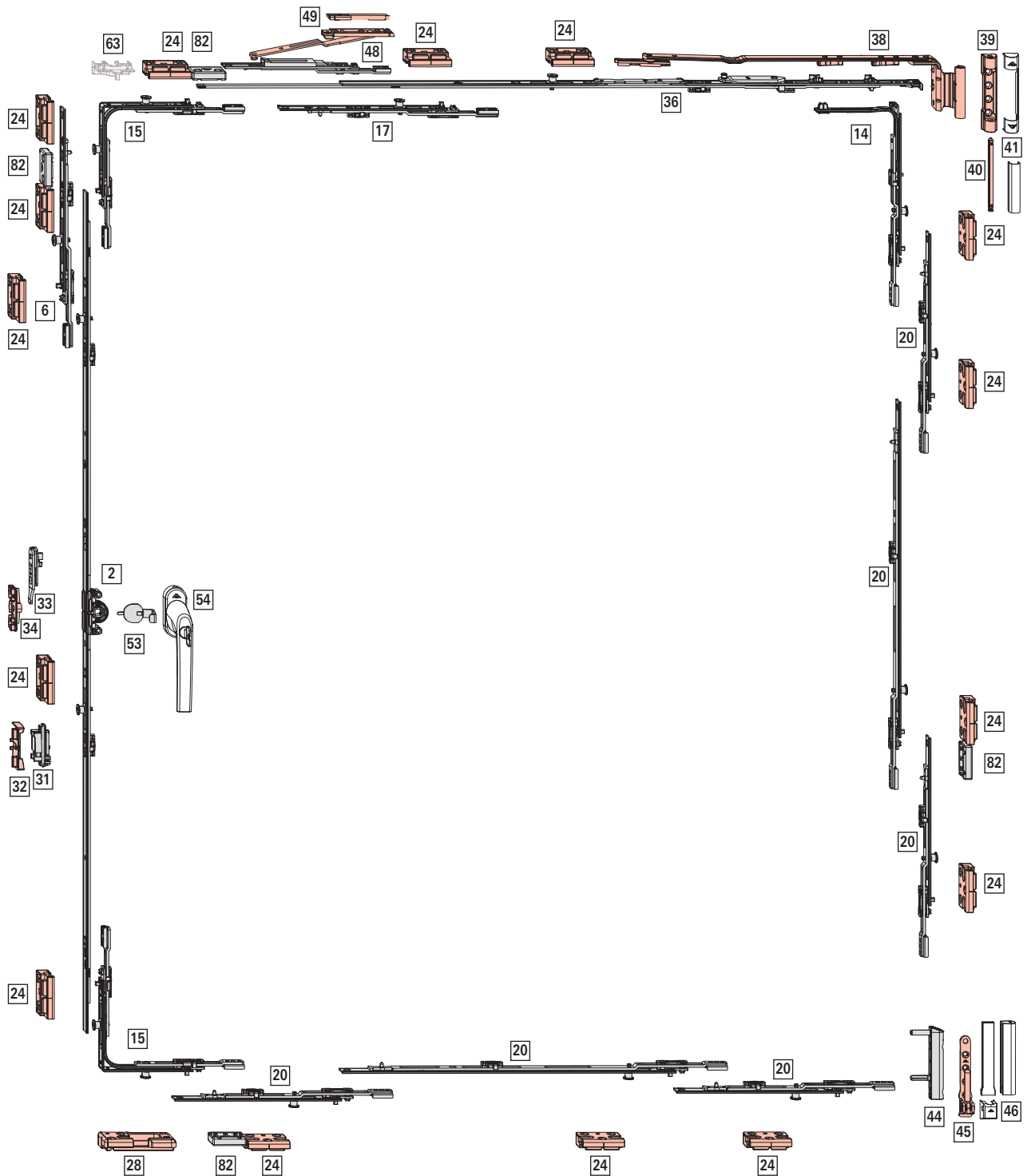
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3.1.2.1.4 RC 3





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[17]	Centre lock, multipart – security → <i>from page 319</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 3		
	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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3.1.2.1.5 TiltSafe RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, multipart – security → <i>from page 319</i>
[19]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[29]	Security striker for tilt ventilation → <i>from page 361</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[50]	Rebate run-up block → <i>from page 415</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 411</i>
[83]	TiltSafe protective support (optional) → <i>from page 361</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	410 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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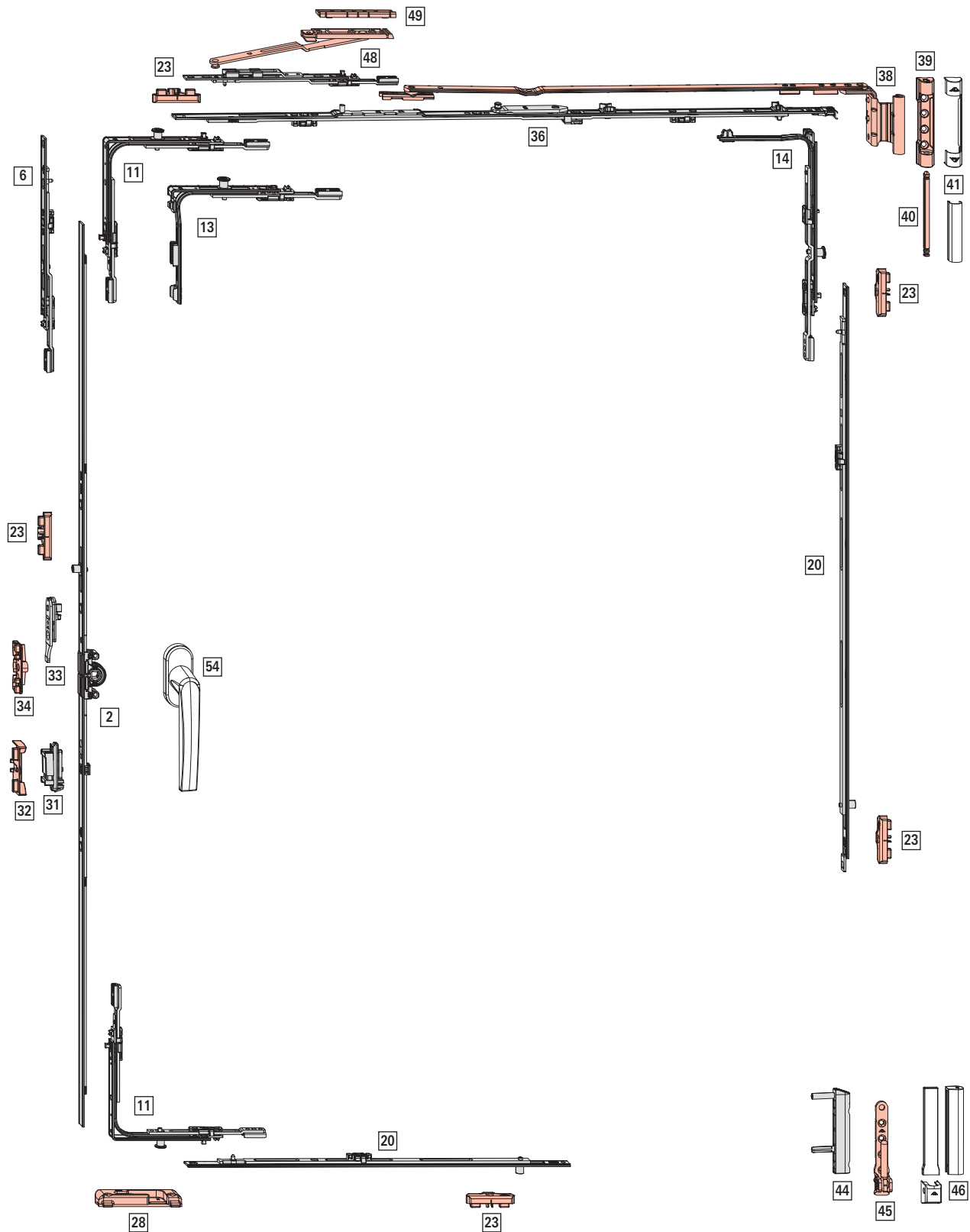
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3.1.2.2 TiltFirst hardware

3.1.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker TiltFirst → <i>from page 353</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm TiltFirst → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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3.1.2.3 Turn-Only hardware

3.1.2.3.1 Basic security





Position	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Multipart centre lock – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[19]	Multipart centre lock – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Striker, security → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[52]	Travel restrictor → <i>from page 424</i>
[54]	Handle (see catalogue CTL_1)

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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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 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[52]	Travel restrictor → <i>from page 424</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	310 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

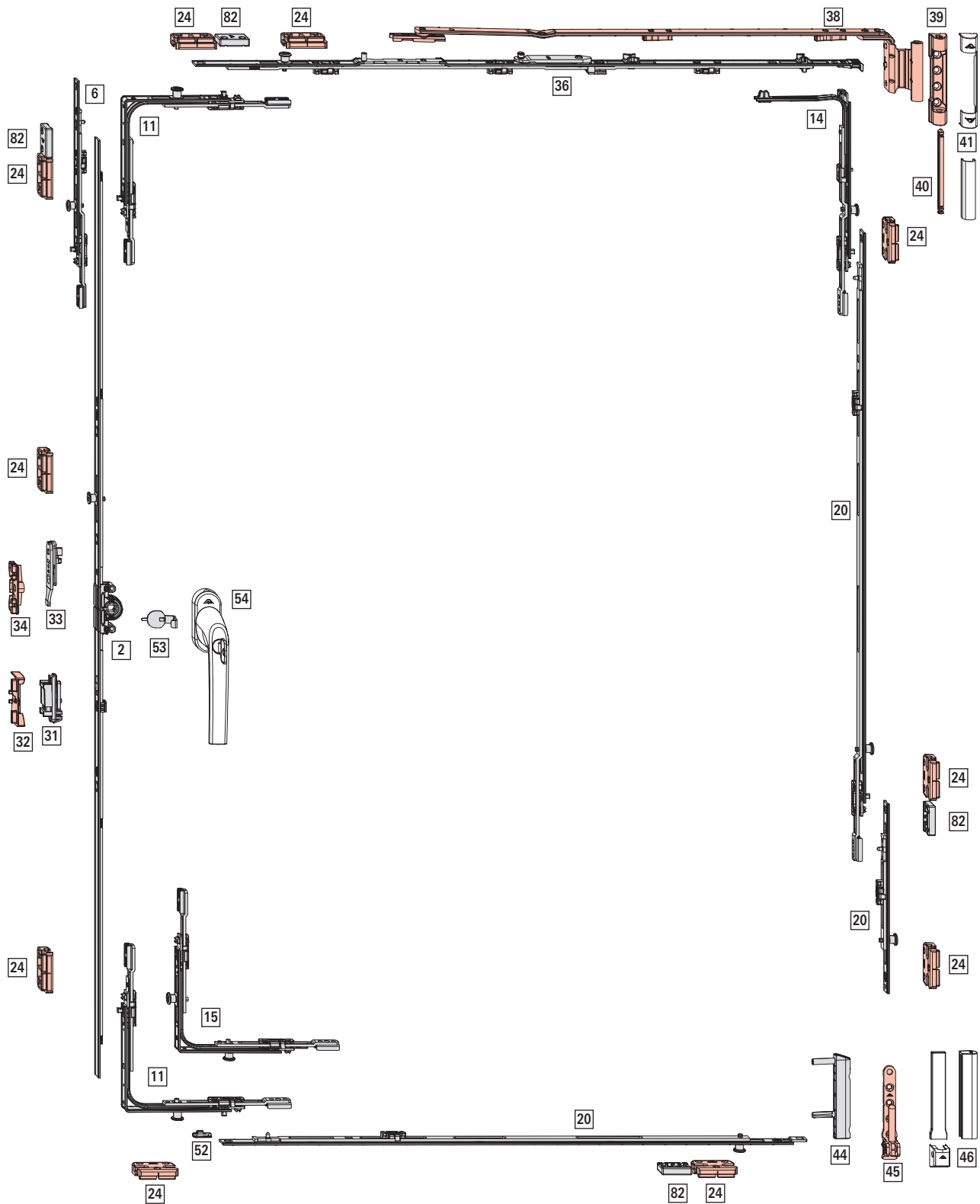
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3.1.2.3.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[52]	Travel restrictor → <i>from page 424</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Lockable handle (see catalogue CTL_1)
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	320 – 1400 mm
	Sash rebate height (SRH)	490 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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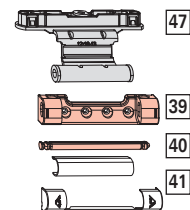
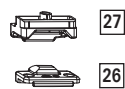
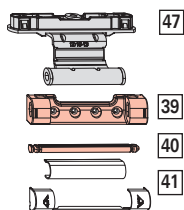
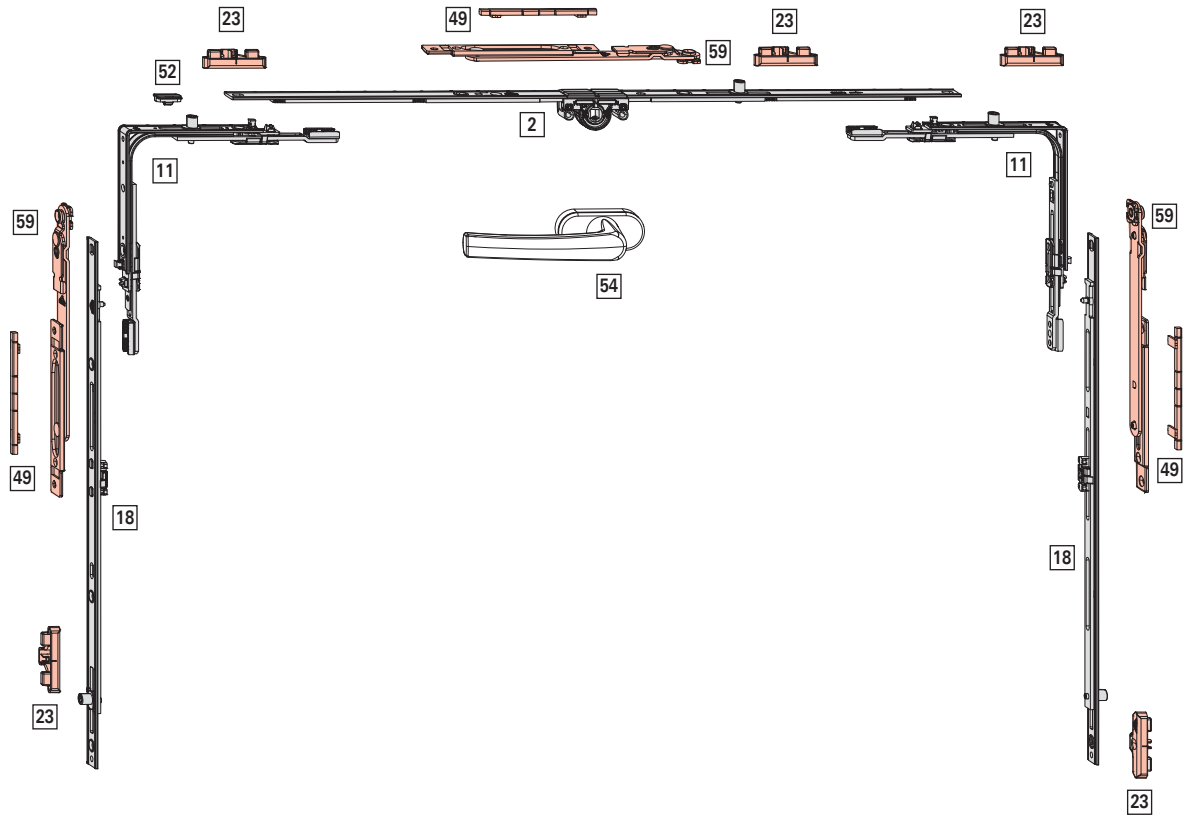
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3.1.2.4 Tilt-Only hardware

3.1.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[11]	Corner drive, standard → <i>from page 266</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[47]	Turn-Only / Tilt-Only rebate hinge → <i>from page 304</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[52]	Travel restrictor → <i>from page 424</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 373</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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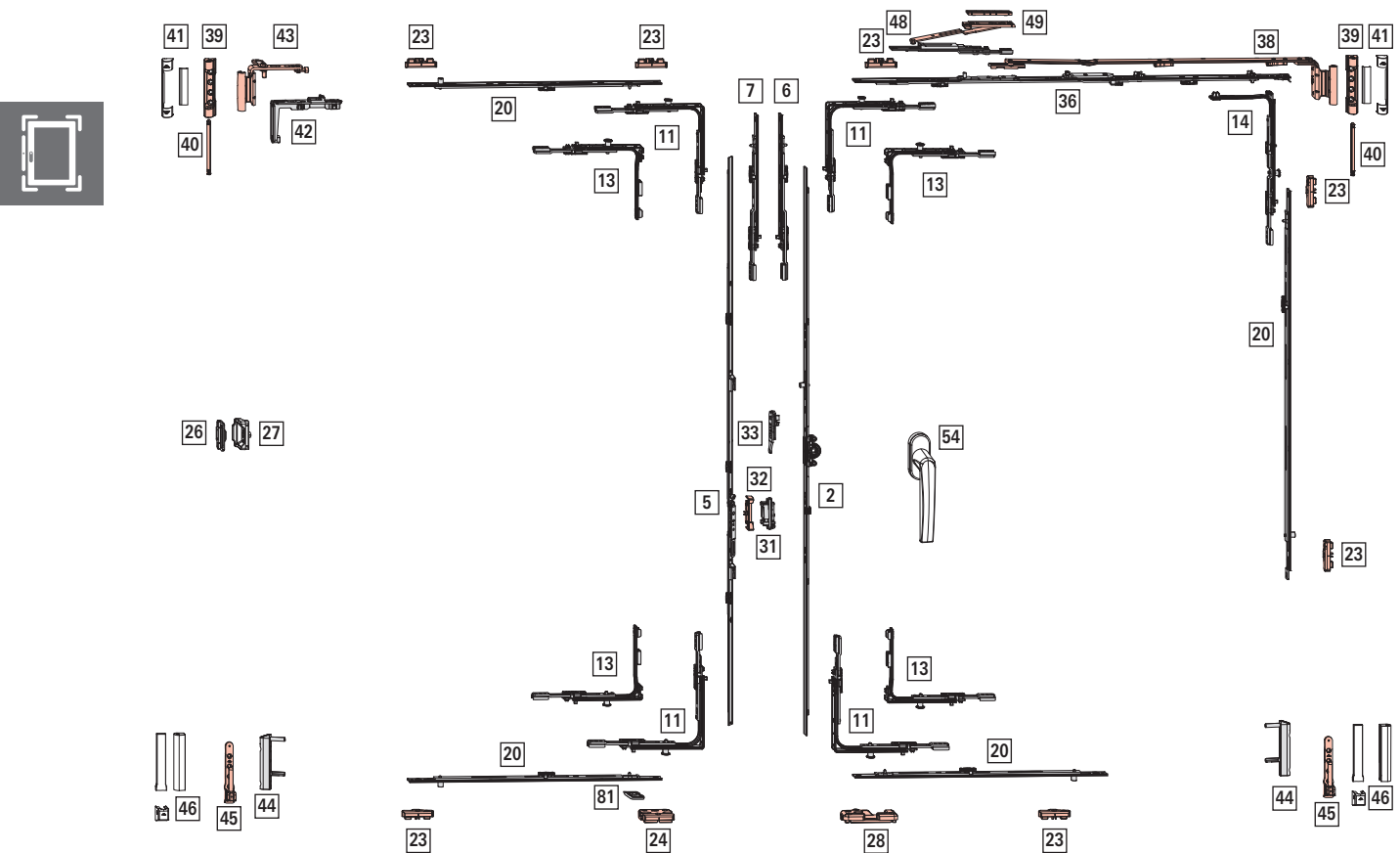
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3.1.2.5 Floating-mullion hardware – standard

3.1.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 253</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	370 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

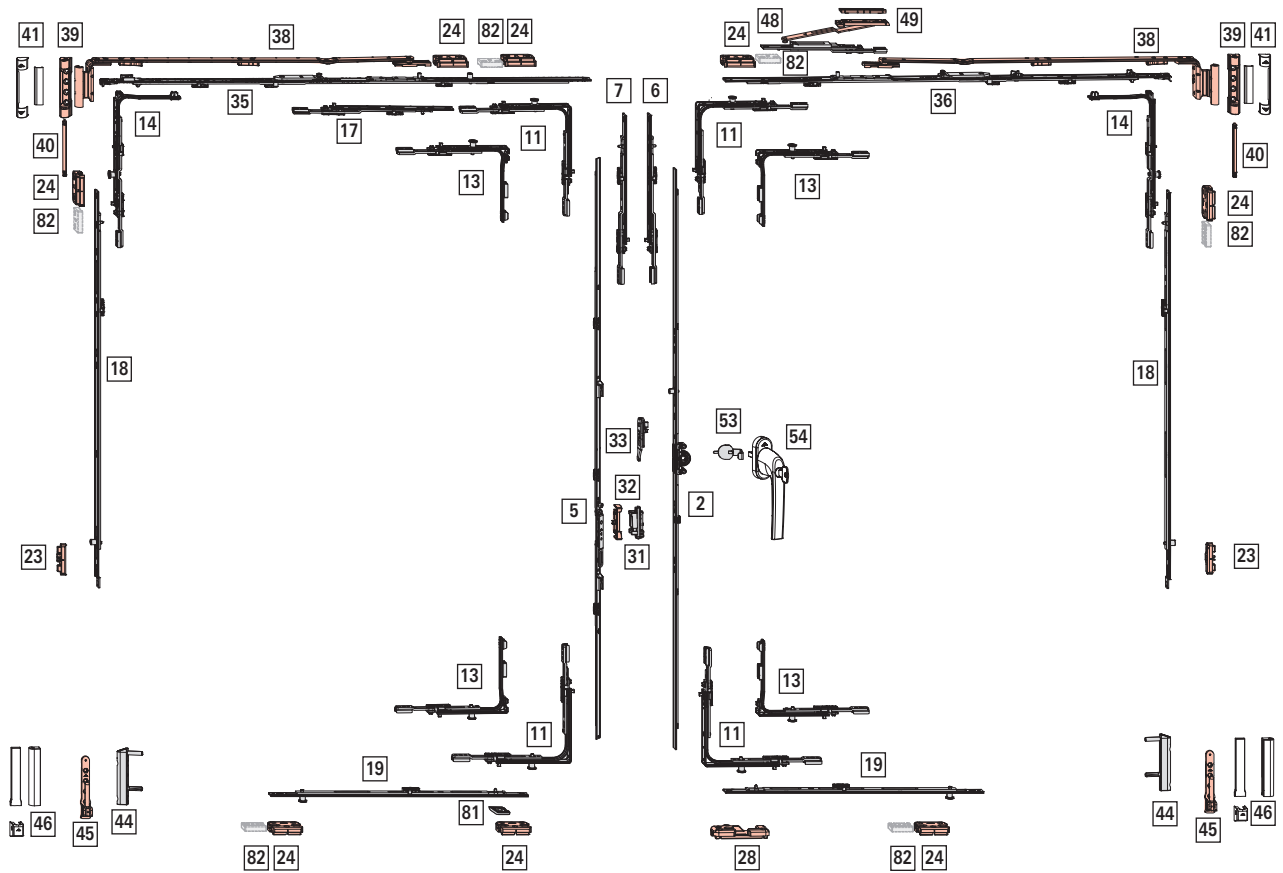
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3.1.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 253</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 282</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	370 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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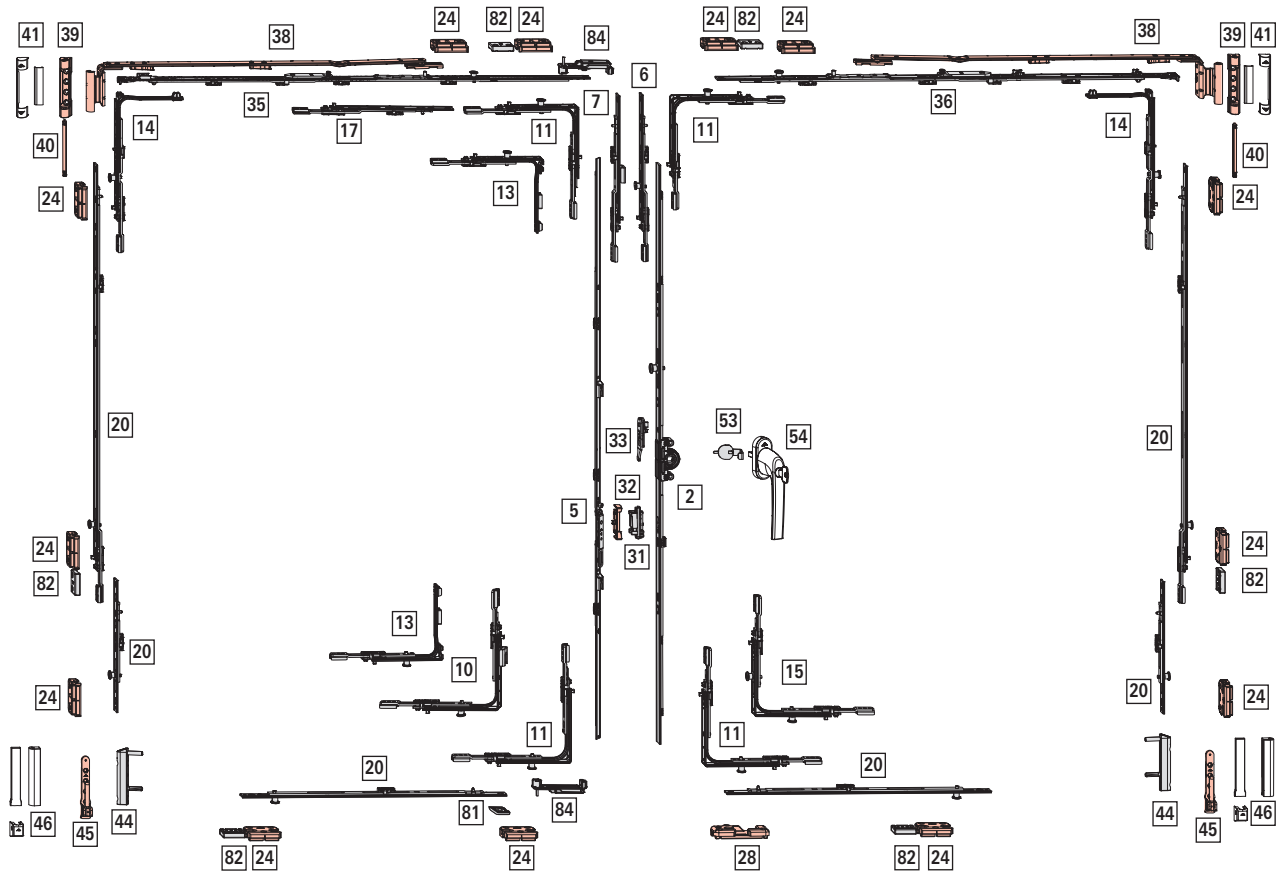


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3.1.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 253</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[10]	Floating-mullion corner drive → <i>from page 268</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 282</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>
[84]	Safety device for floating-mullion sash → <i>from page 410</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	400 – 1400 mm
	Sash rebate height (SRH)	520 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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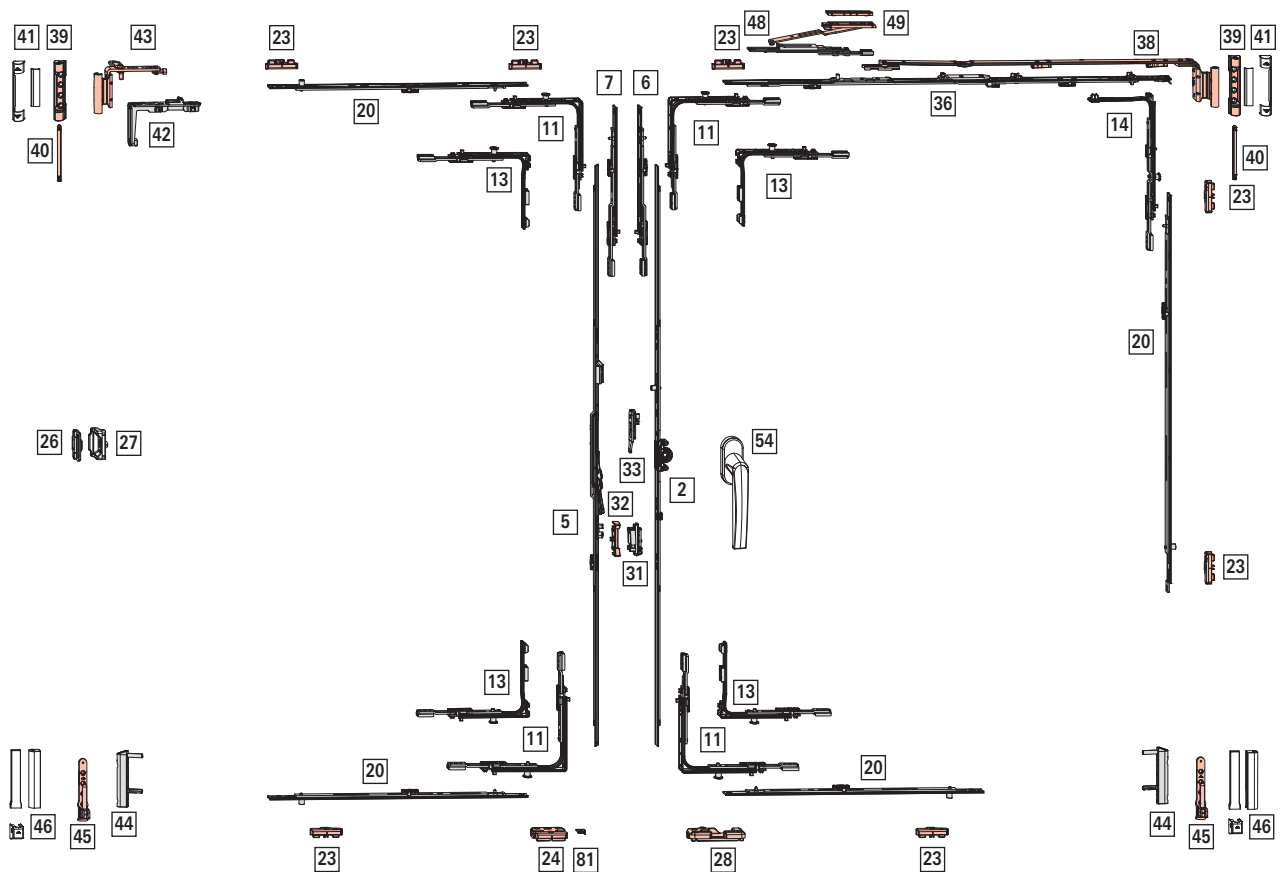
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3.1.2.6 Floating-mullion hardware – Plus

3.1.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 259</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 418</i>
[27]	Concealed centre closer sash component → <i>from page 418</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 300</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>

Application range

Basic security		
	Sash rebate width (SRW)	290 – 1600 mm
	Sash rebate height (SRH)	420 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

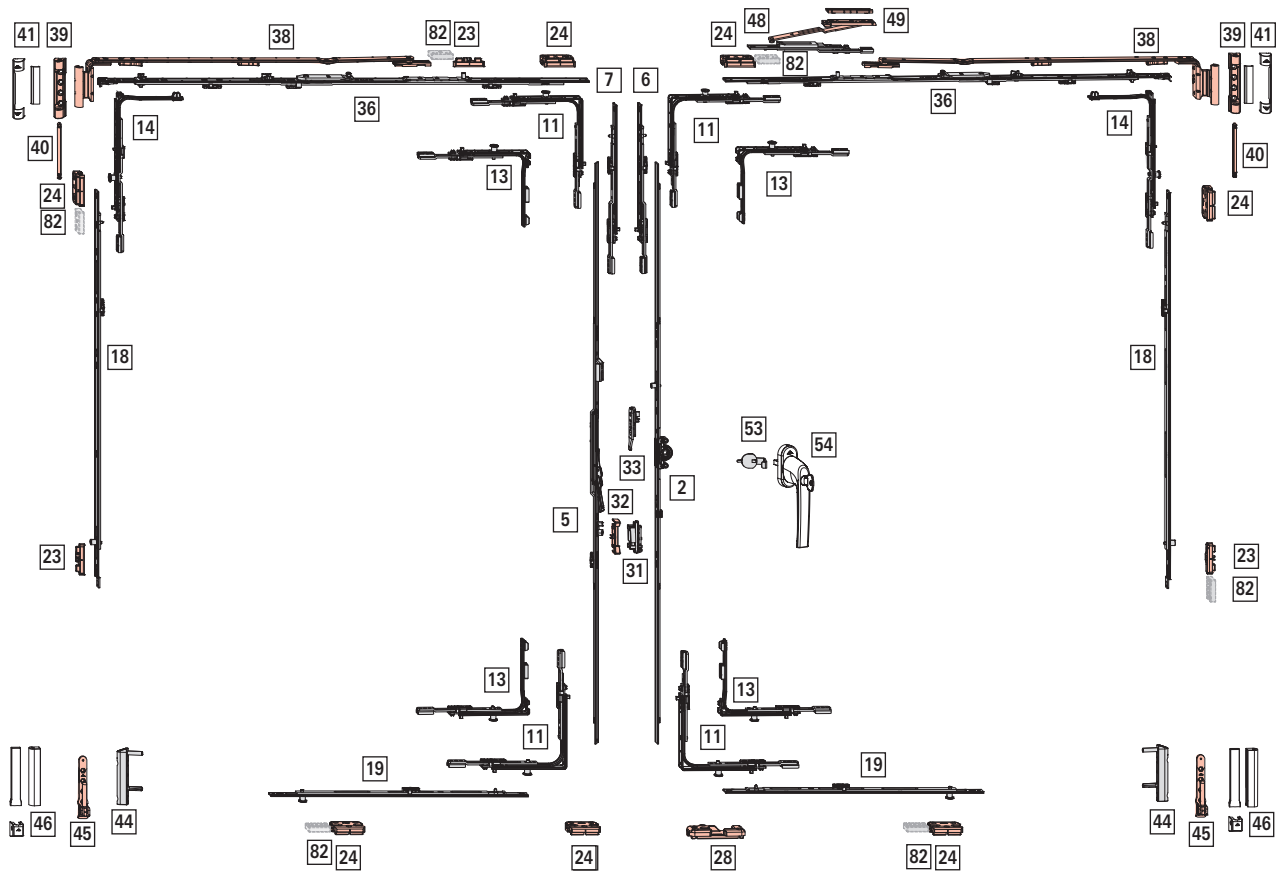
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3.1.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 259</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer → <i>from page 417</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 1 N		
	Sash rebate width (SRW)	320 – 1600 mm
	Sash rebate height (SRH)	420 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



INFO

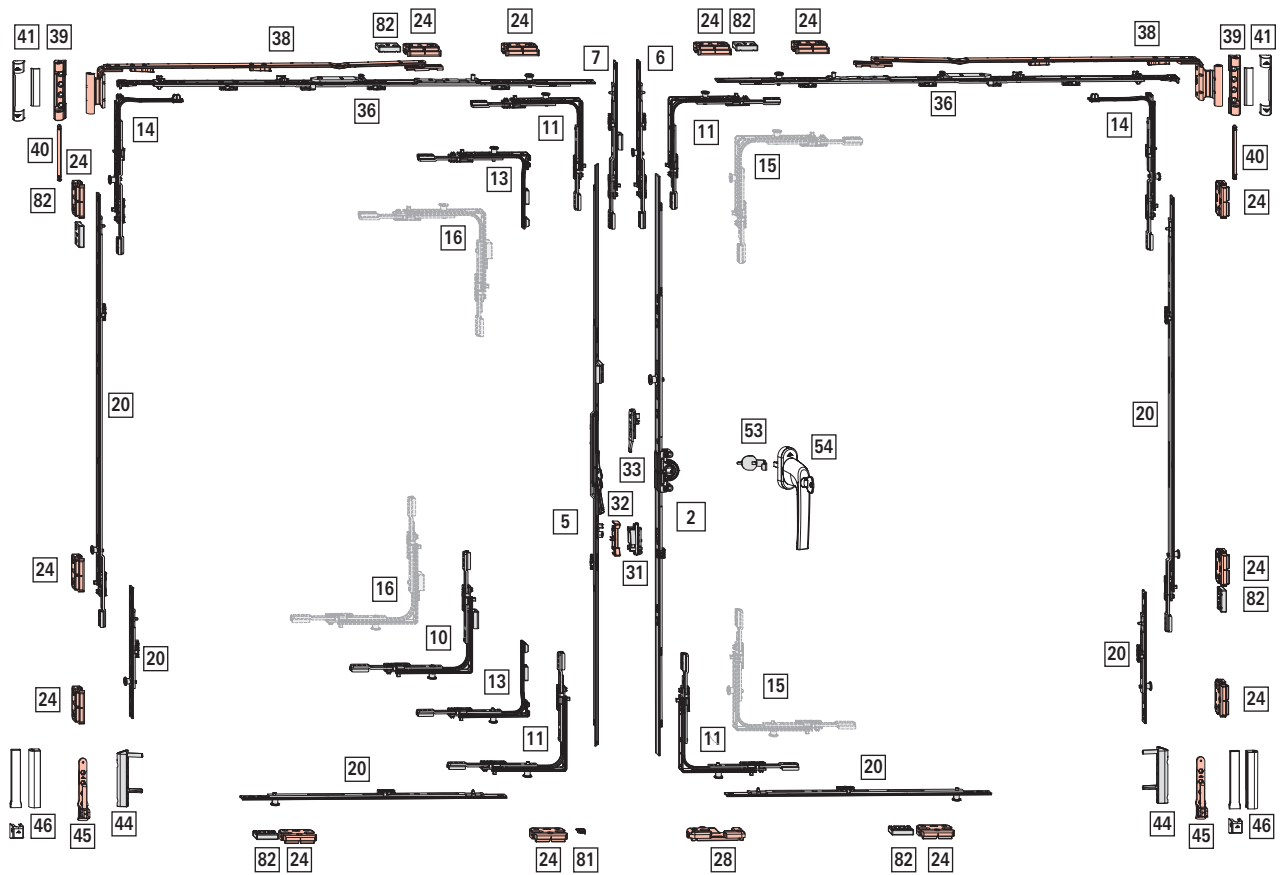
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3.1.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 259</i>
[6]	Centre lock, multipart – security → <i>from page 319</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[10]	Floating-mullion corner drive → <i>from page 268</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[16]	Corner drive, floating mullion – slide guard (optional) → <i>from page 268</i>
[20]	Centre lock, multipart – security → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Security stay guide → <i>from page 281</i>
[38]	Stay arm → <i>from page 285</i>
[39]	Stay bearing → <i>from page 306</i>
[40]	Stay-bearing pin → <i>from page 308</i>
[41]	Sash stay cover caps → <i>from page 309</i>
[44]	Corner hinge → <i>from page 337</i>
[45]	Pivot rest → <i>from page 339</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 344</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>

Application range

RC 2 / RC 2 N		
	Sash rebate width (SRW)	400 – 1400 mm
	Sash rebate height (SRH)	520 – 2800 mm
	Sash weight (S.kg)	Max. 150 kg



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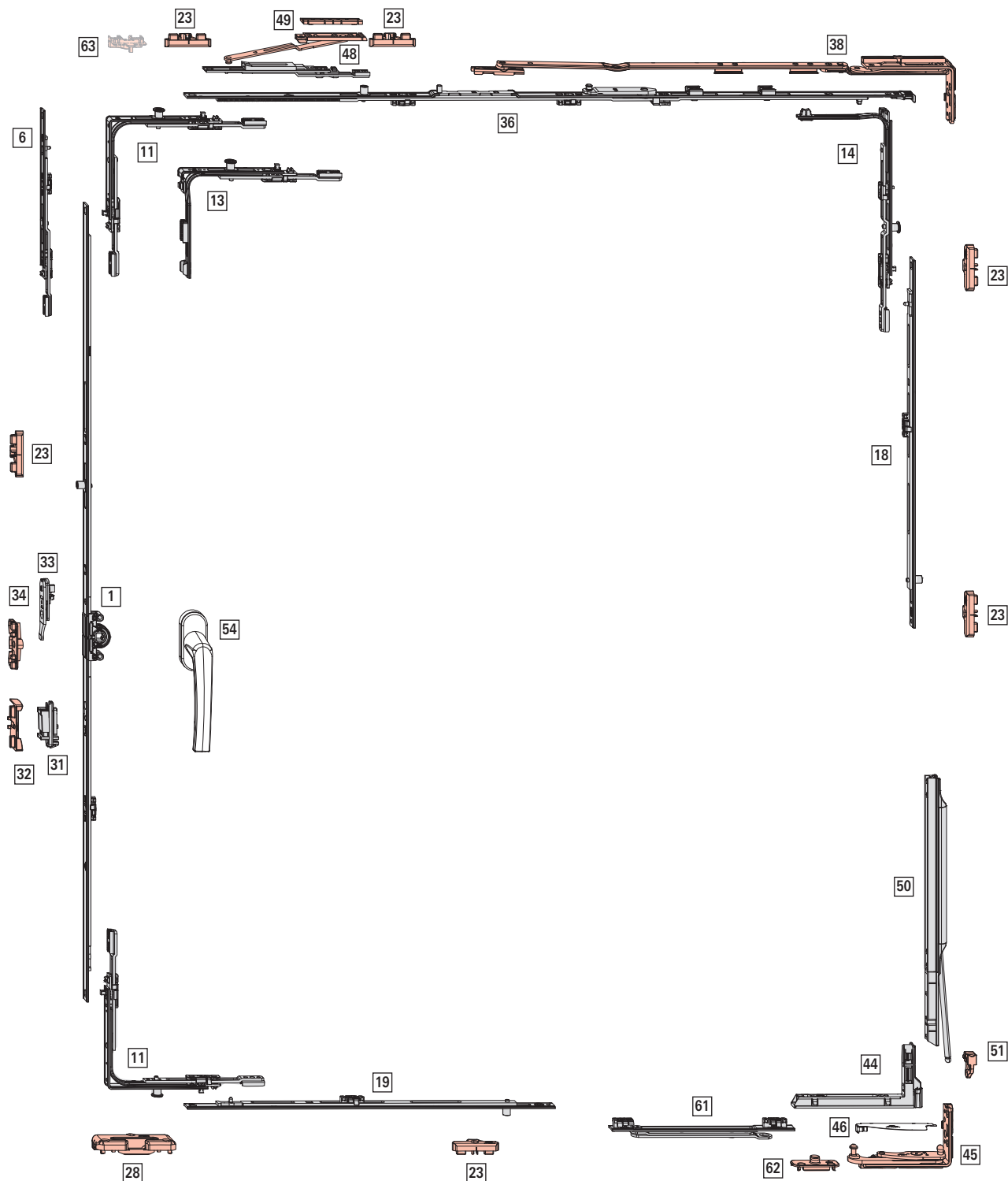
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3.2 Hinge side Designo (HA 13)

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 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[63]	Night vent → <i>from page 396</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	Max. 150 kg



INFO

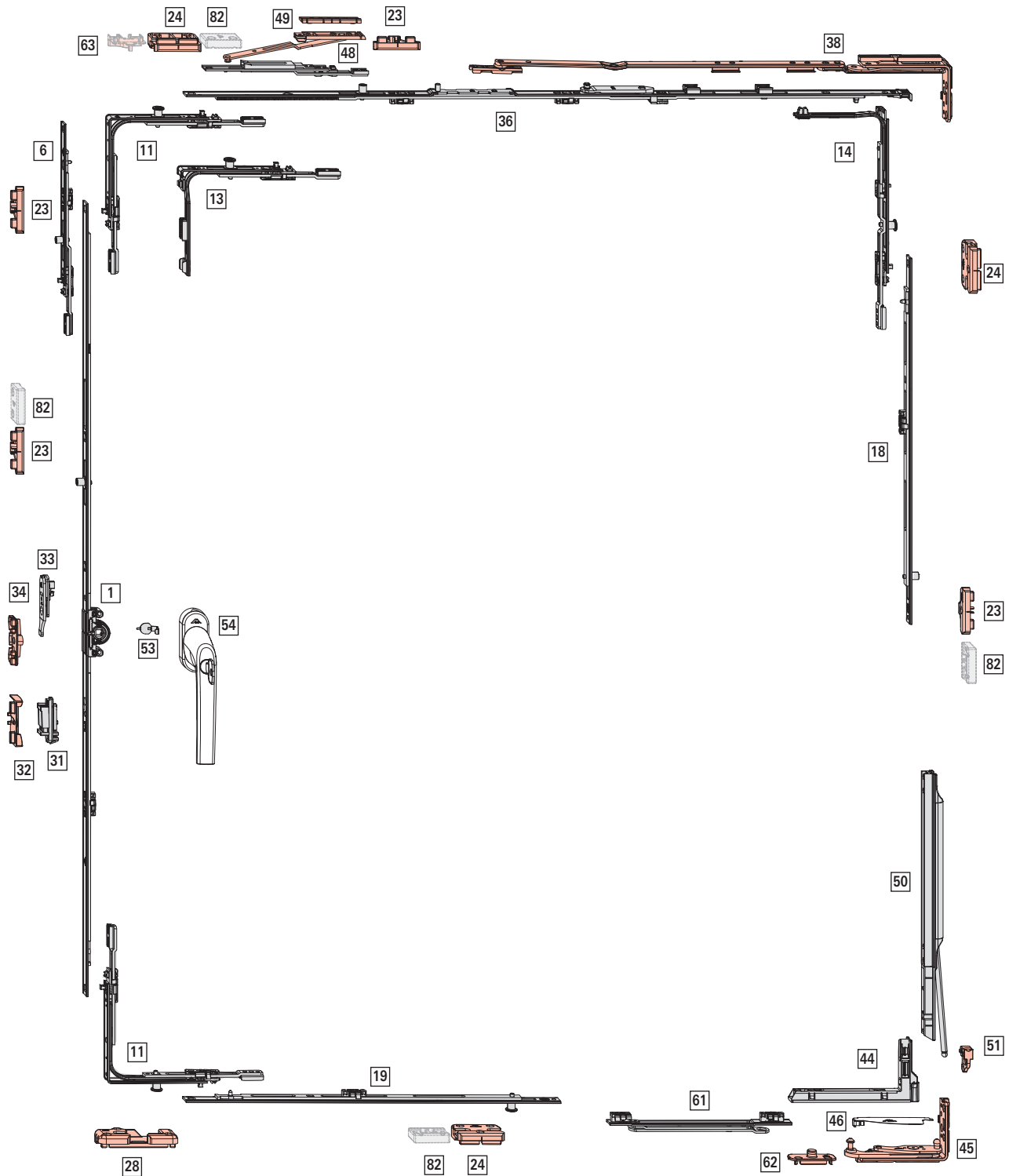
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3.2.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[63]	Night vent → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</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	Max. 150 kg



INFO

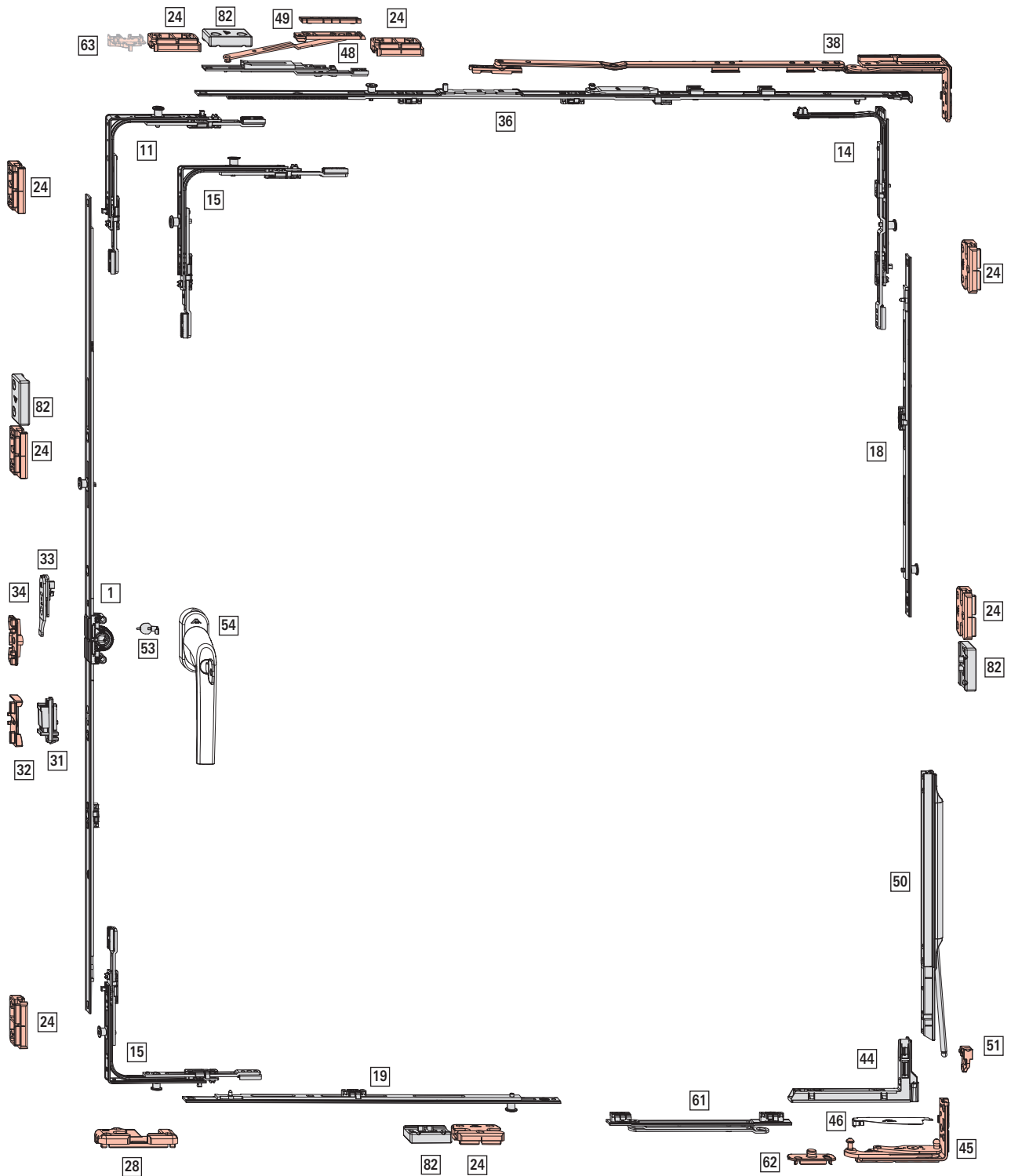
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3.2.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[63]	Night vent → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</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)	510 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	Max. 150 kg



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This diagram illustrates the exploded view of a window frame assembly. The components are numbered as follows:

- 1**: Main vertical frame profile.
- 14**: Top right corner profile.
- 15**: Bottom left corner profile.
- 18**: Vertical frame profile on the right side.
- 19**: Horizontal frame profile at the top and bottom.
- 24**: Various small clips and fasteners.
- 28**: Small rectangular fasteners.
- 29**: Small rectangular fasteners.
- 31**: Small rectangular fasteners.
- 32**: Small rectangular fasteners.
- 33**: Small rectangular fasteners.
- 34**: Small rectangular fasteners.
- 36**: Long horizontal frame profile.
- 38**: Top right corner profile.
- 44**: Vertical frame profile on the right side.
- 45**: Small rectangular fasteners.
- 46**: Small rectangular fasteners.
- 50**: Vertical frame profile on the right side.
- 51**: Small rectangular fasteners.
- 53**: Small rectangular fasteners.
- 54**: Small rectangular fasteners.
- 61**: Long horizontal frame profile.
- 62**: Small rectangular fasteners.
- 82**: Small rectangular fasteners.
- 83**: Small rectangular fasteners.



Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[29]	Security striker for tilt ventilation → <i>from page 361</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[82]	Anti-jemmy device → <i>from page 411</i>
[83]	TiltSafe protective support (optional) → <i>from page 361</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)	510 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	Max. 150 kg



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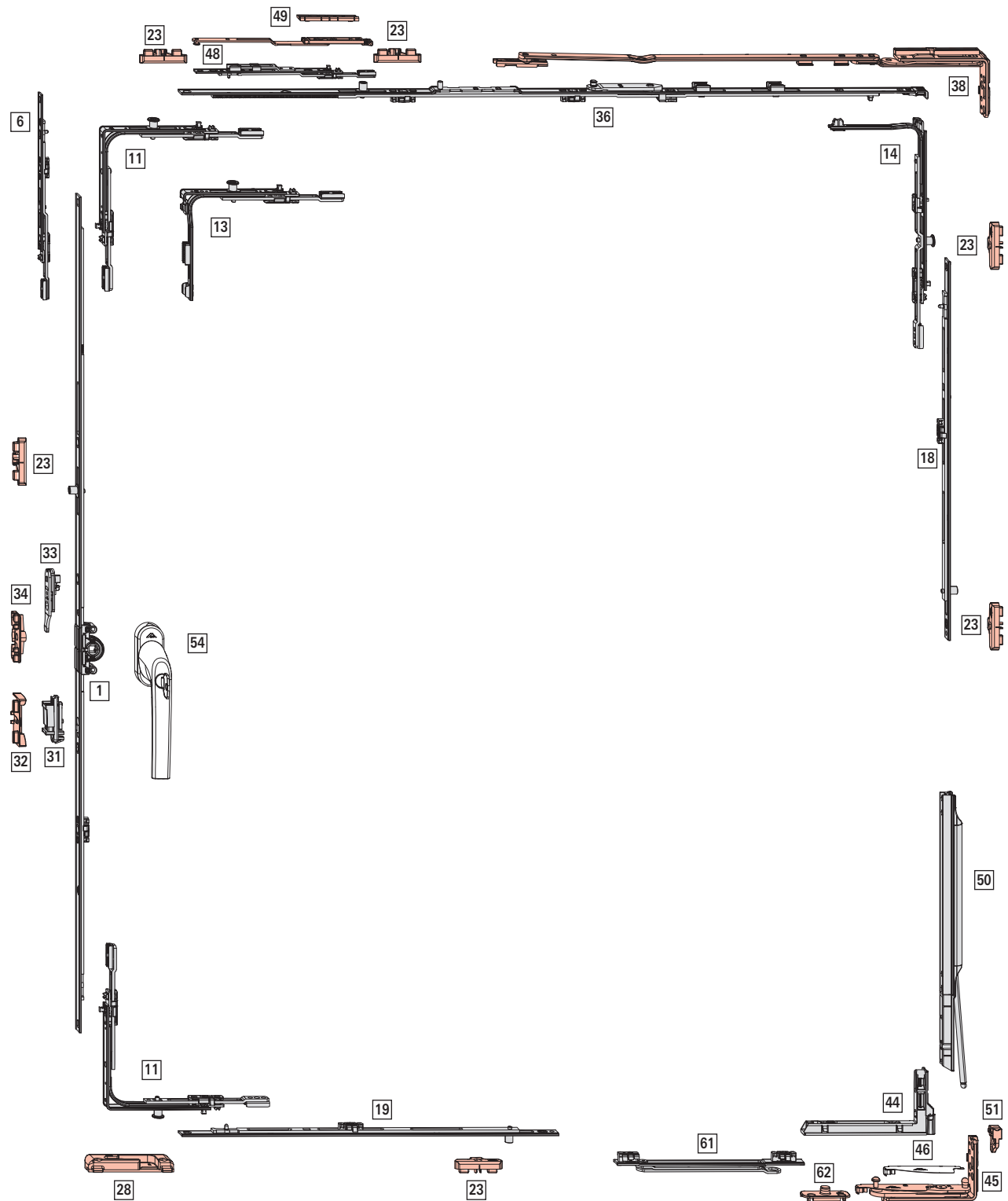
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3.2.1.2 TiltFirst hardware

3.2.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker TiltFirst → <i>from page 353</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm TiltFirst → <i>from page 294</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</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	Max. 150 kg



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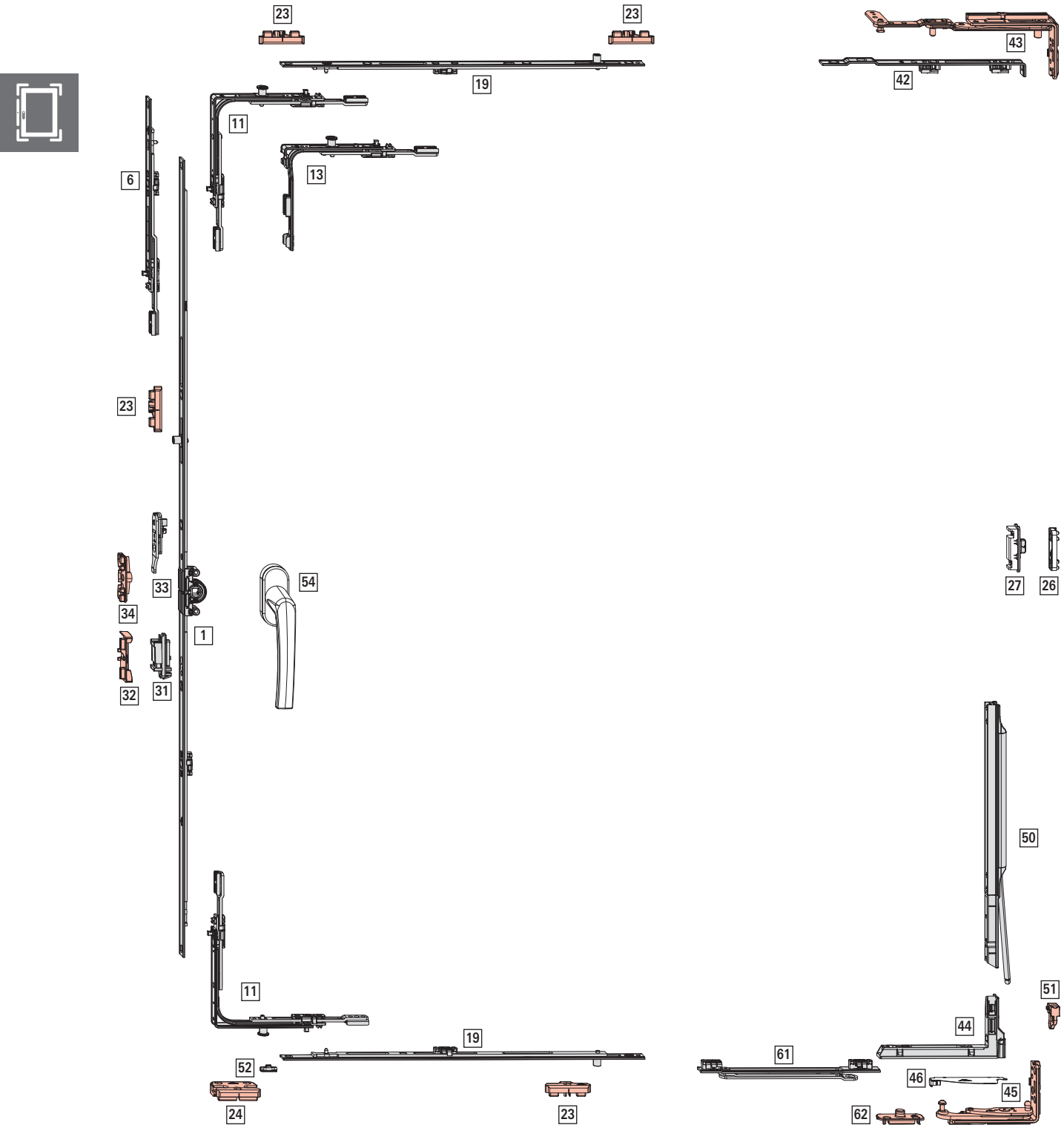
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3.2.1.3 Turn-Only hardware

3.2.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[52]	Travel restrictor → <i>from page 424</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</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	Max. 150 kg



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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 212</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</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	Max. 150 kg



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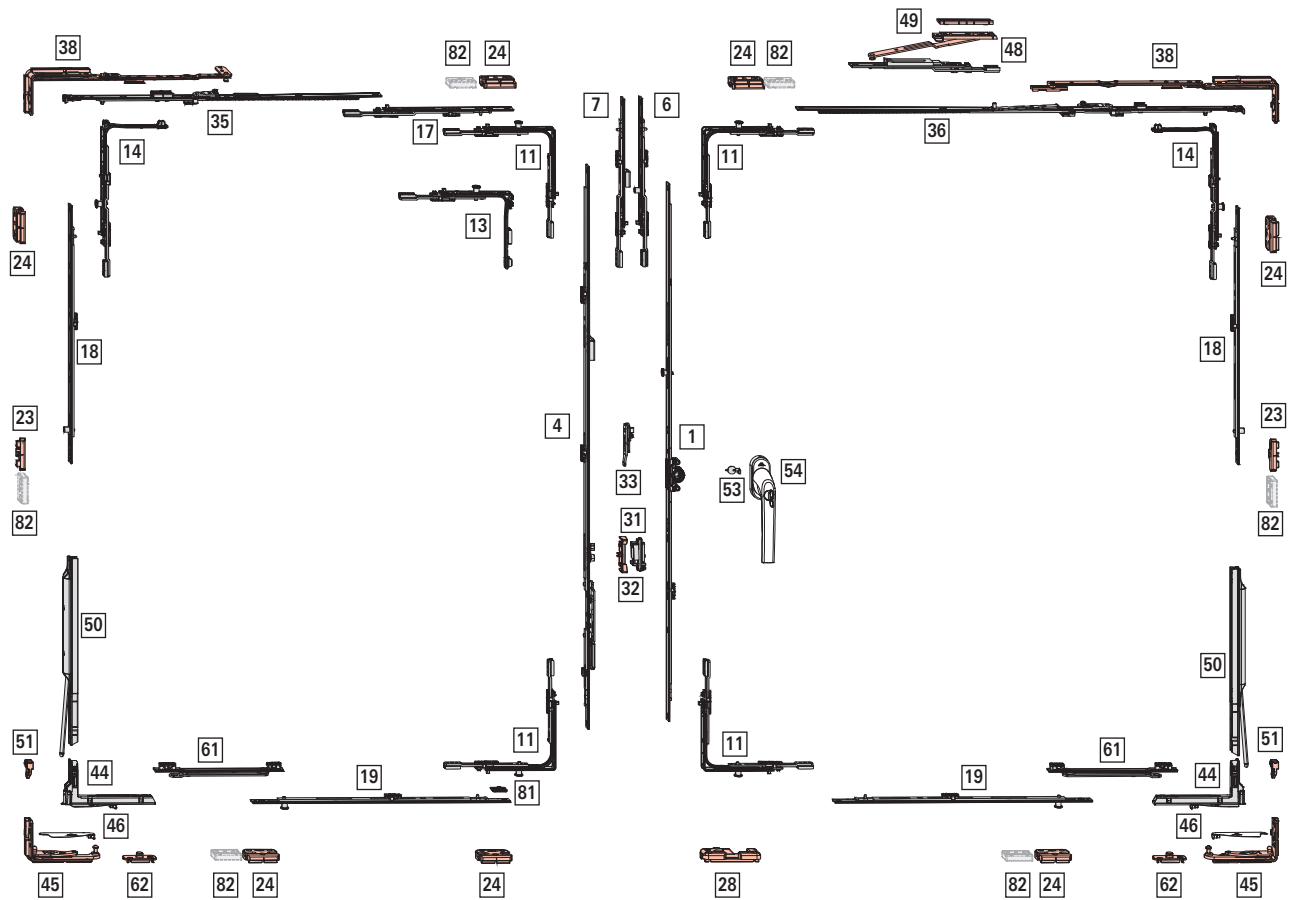
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3.2.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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	Max. 150 kg



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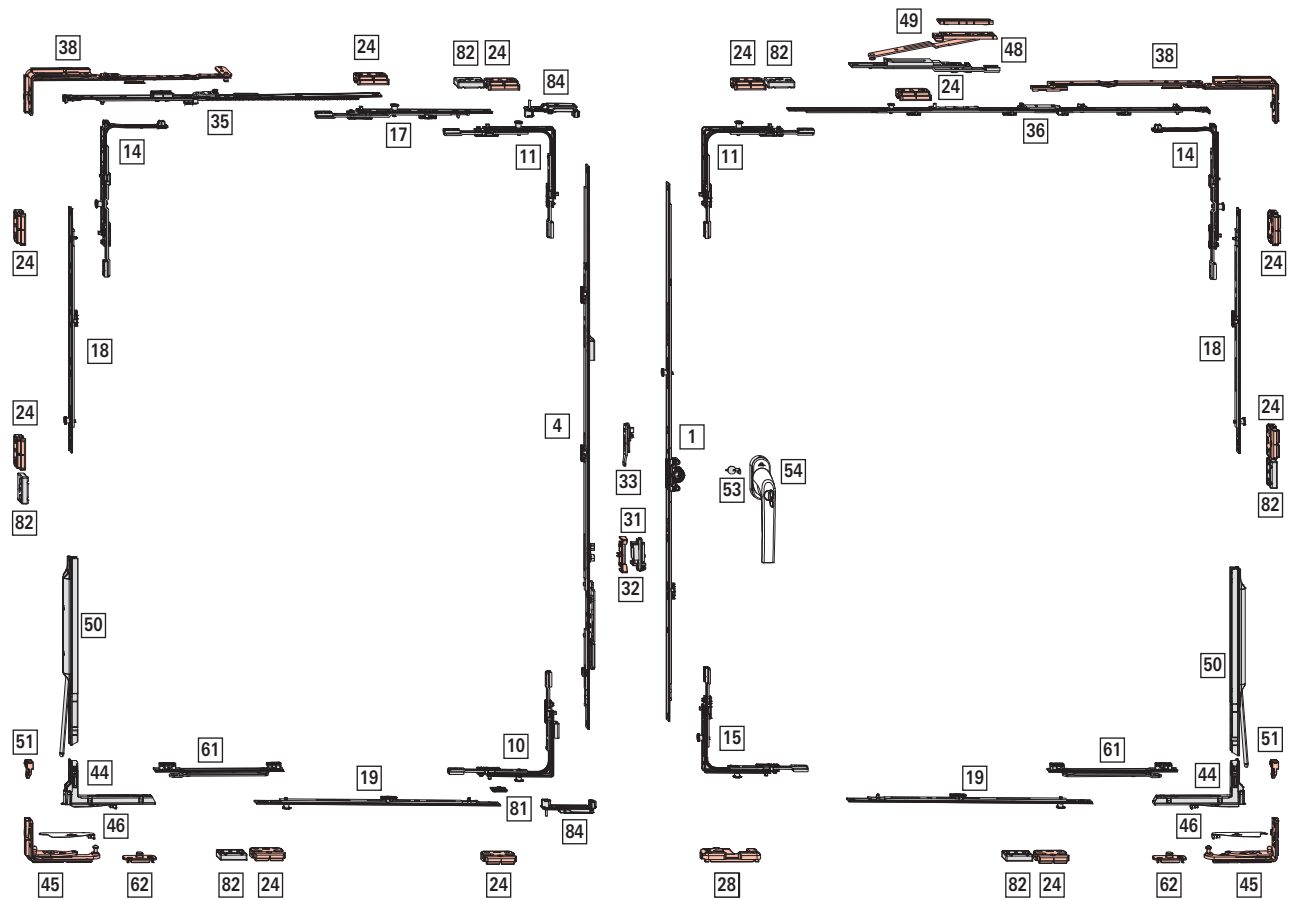
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3.2.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 250</i>
[10]	Floating-mullion corner drive → <i>from page 268</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 318</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>
[84]	Safety device for floating-mullion sash → <i>from page 410</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	Max. 150 kg



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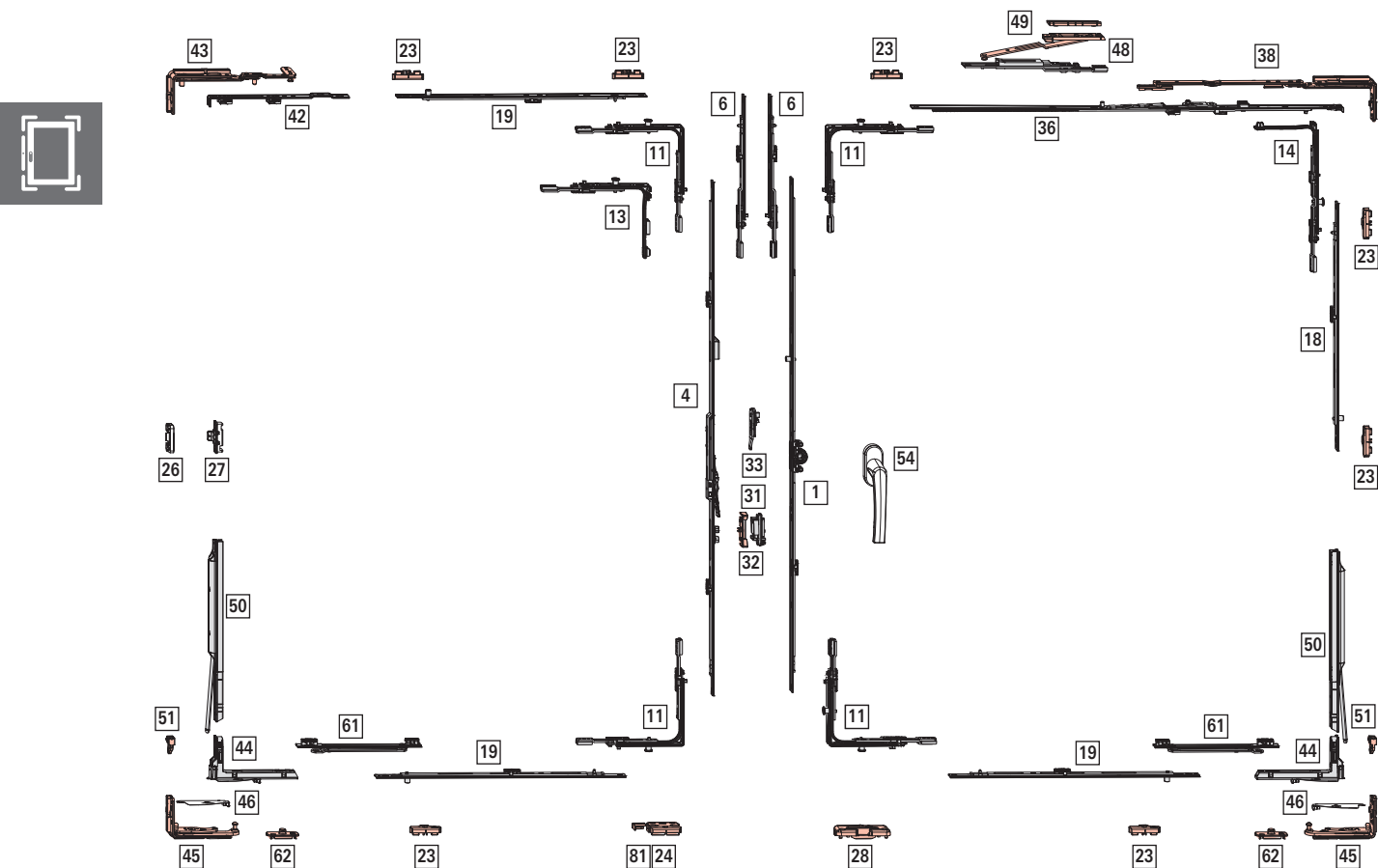
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3.2.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</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	Max. 150 kg



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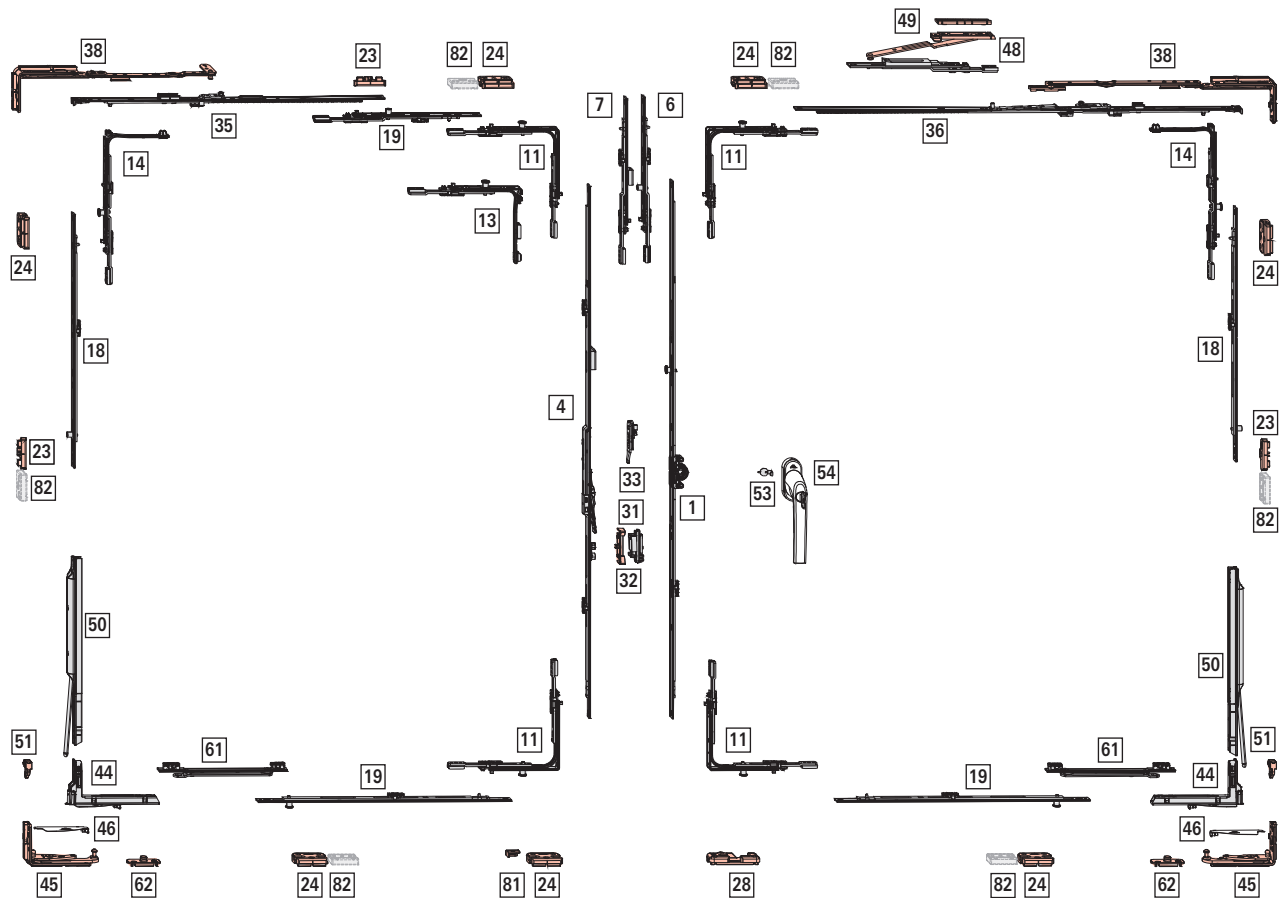
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3.2.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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	Max. 150 kg



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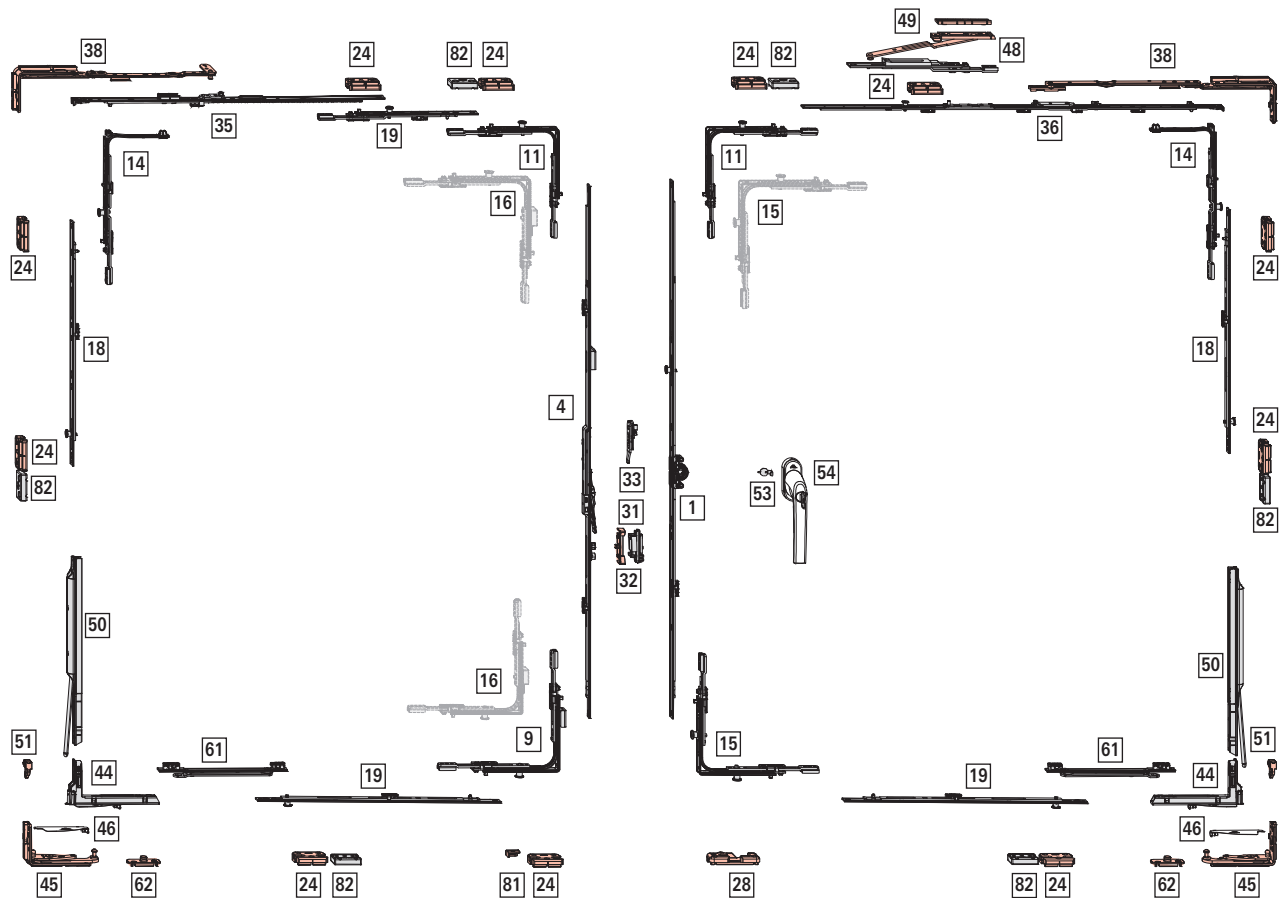
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3.2.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 212</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 256</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[16]	Floating mullion corner drive – slide guard → <i>from page 268</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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	Max. 150 kg



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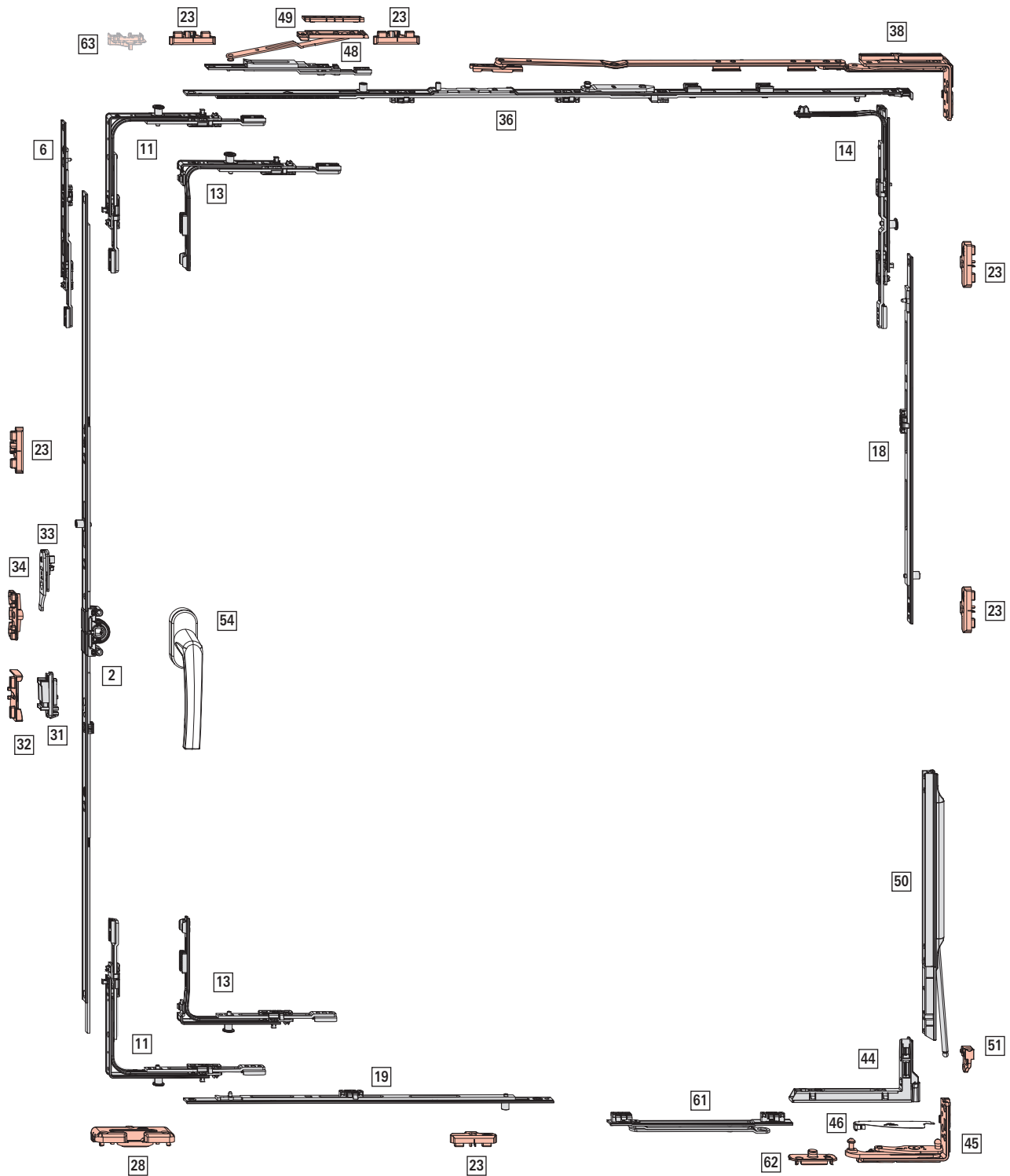


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3.2.2 T&T espagnolette – centred / variable handle height

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 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[63]	Night vent → <i>from page 396</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	Max. 150 kg



INFO

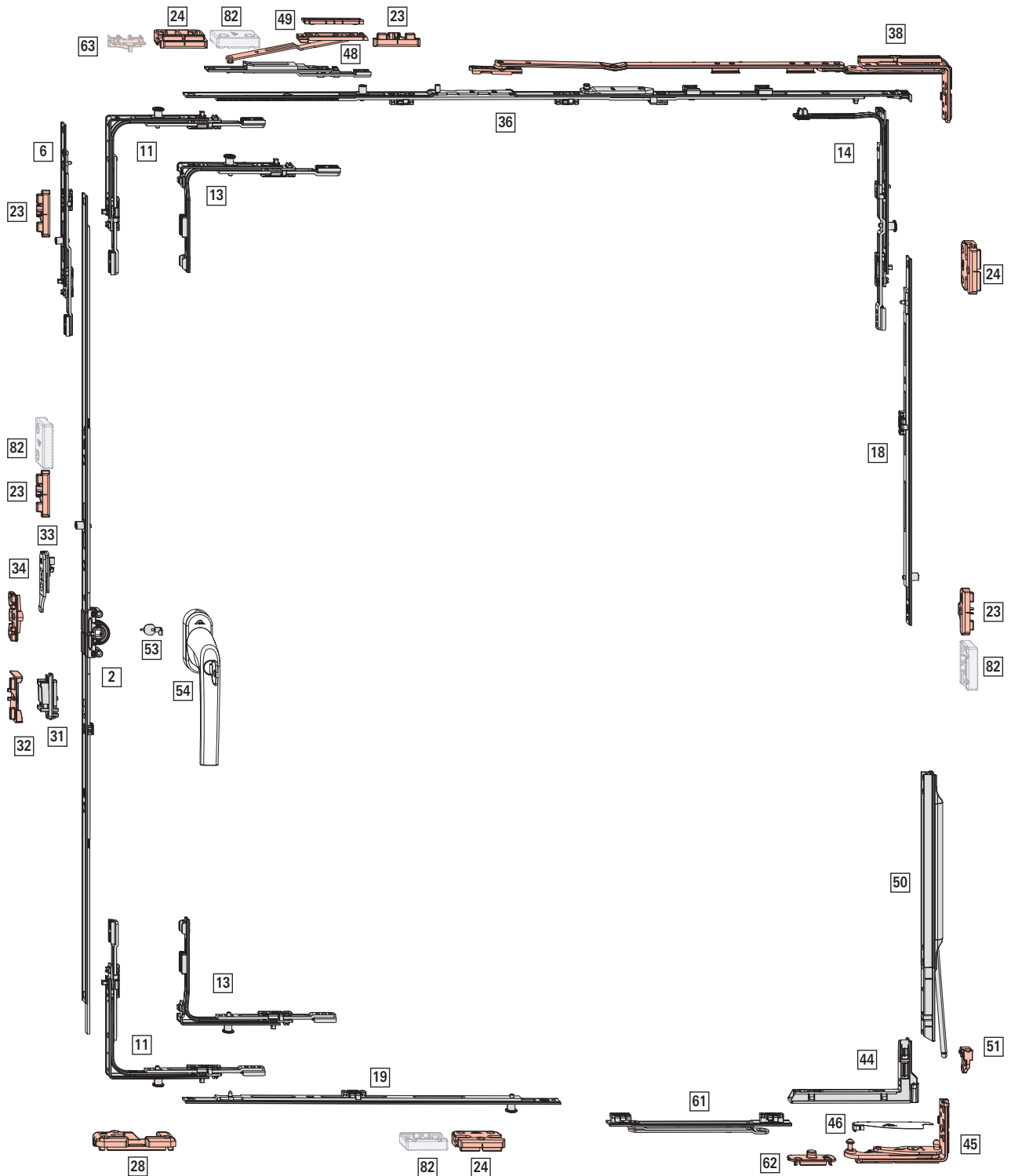
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3.2.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[63]	Night vent → <i>from page 396</i>
[82]	Anti-jimmy device → <i>from page 411</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	Max. 150 kg



INFO

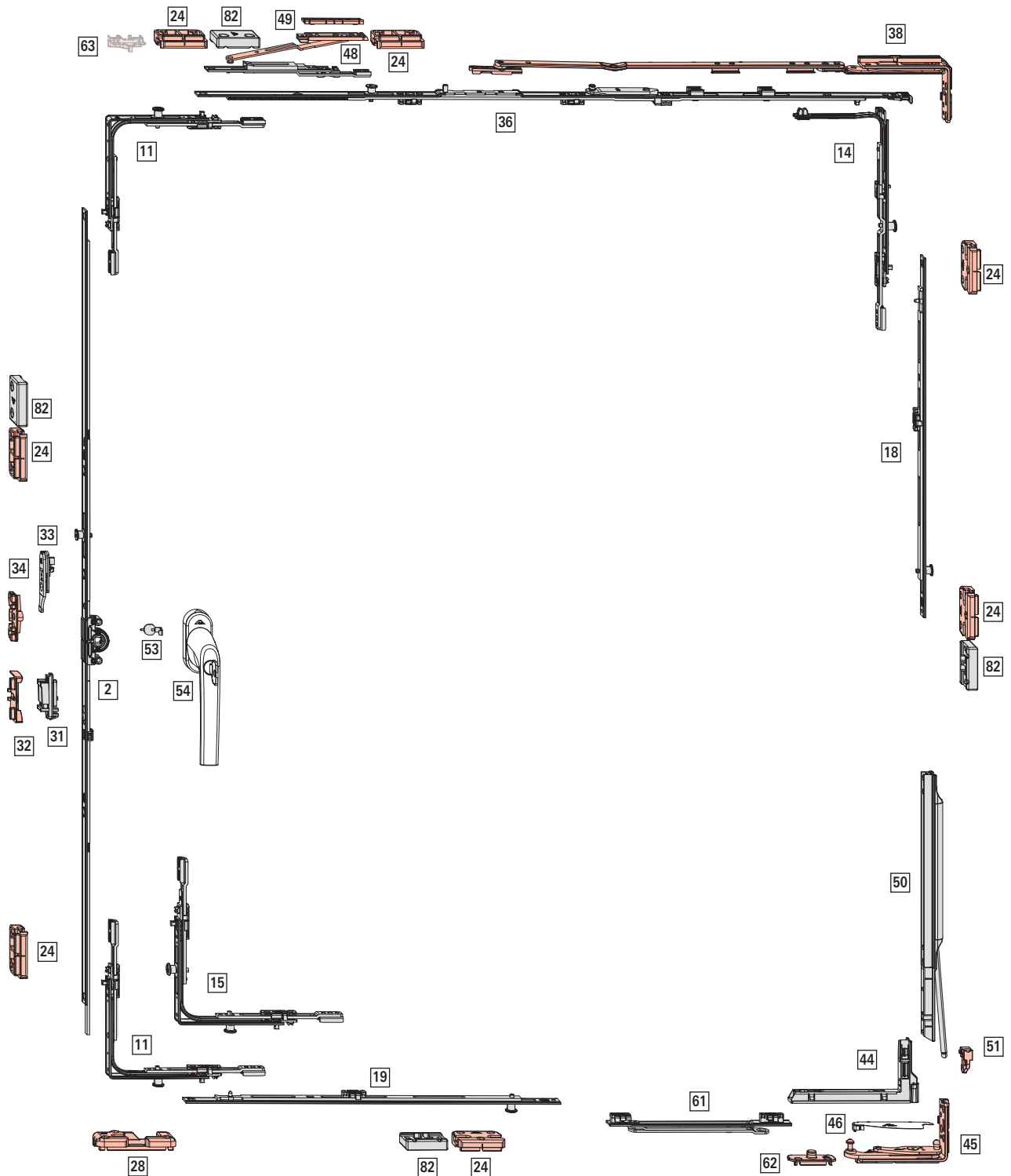
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3.2.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[11]	Corner drive, standard → <i>from page 266</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[63]	Night vent → <i>from page 396</i>
[82]	Anti-jemmy device → <i>from page 411</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	Max. 150 kg



INFO

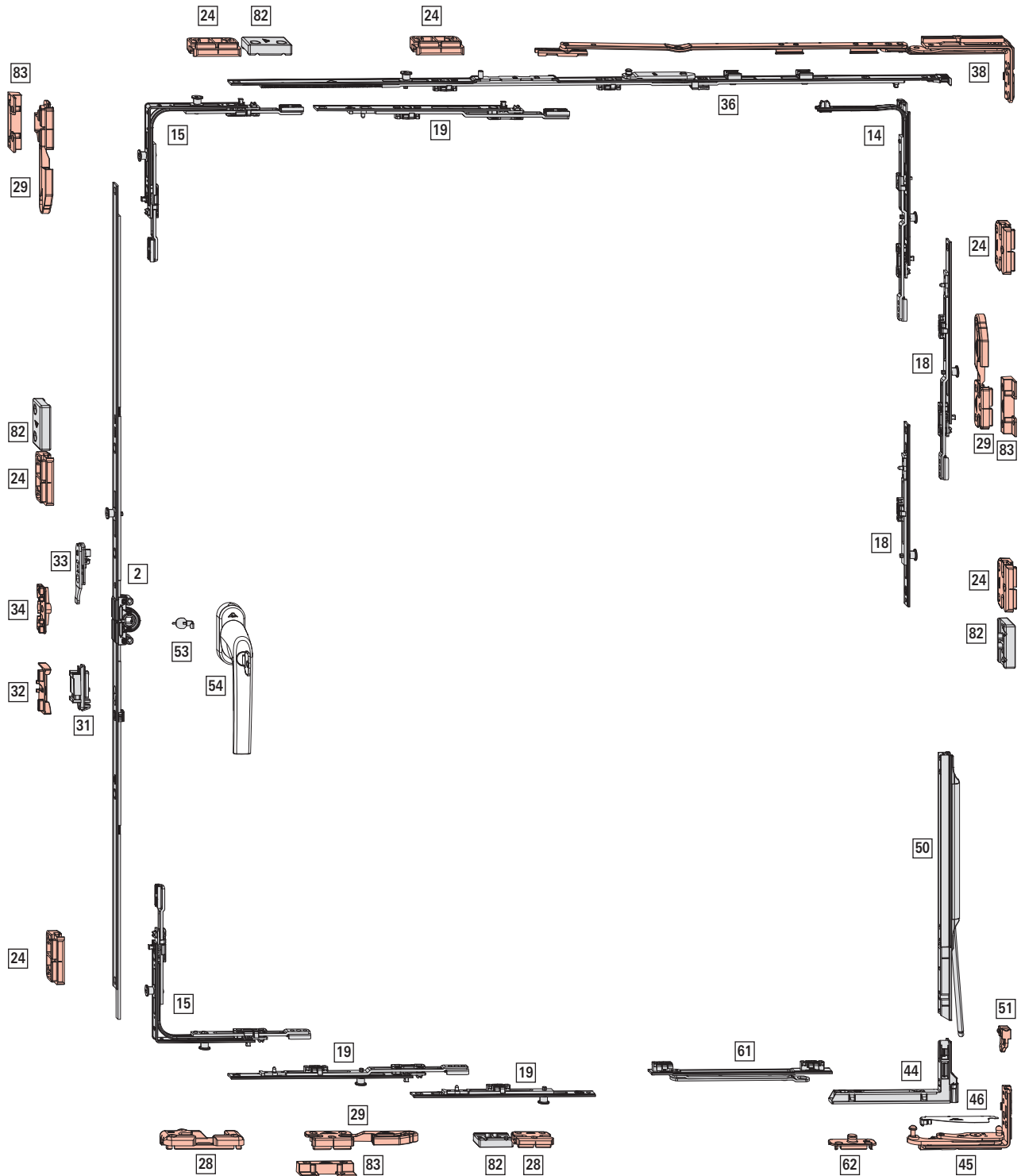
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3.2.2.1.4 TiltSafe RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[29]	Security striker for tilt ventilation → <i>from page 361</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[82]	Anti-jemmy device → <i>from page 411</i>
[83]	TiltSafe protective support (optional) → <i>from page 361</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	Max. 150 kg



INFO

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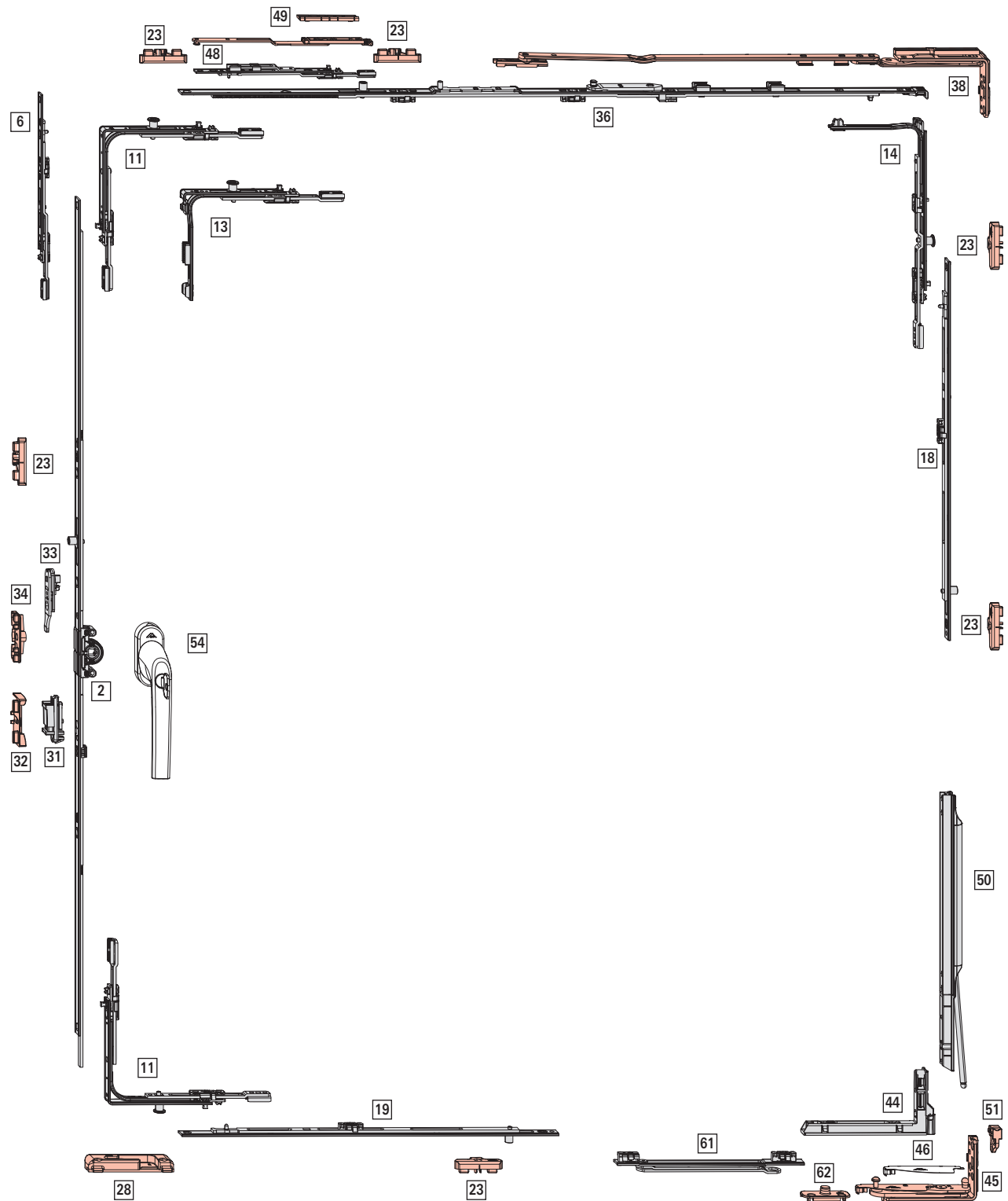
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3.2.2.2 TiltFirst hardware

3.2.2.2.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[28]	Tilt striker TiltFirst → <i>from page 353</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm TiltFirst → <i>from page 294</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</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	Max. 150 kg



INFO

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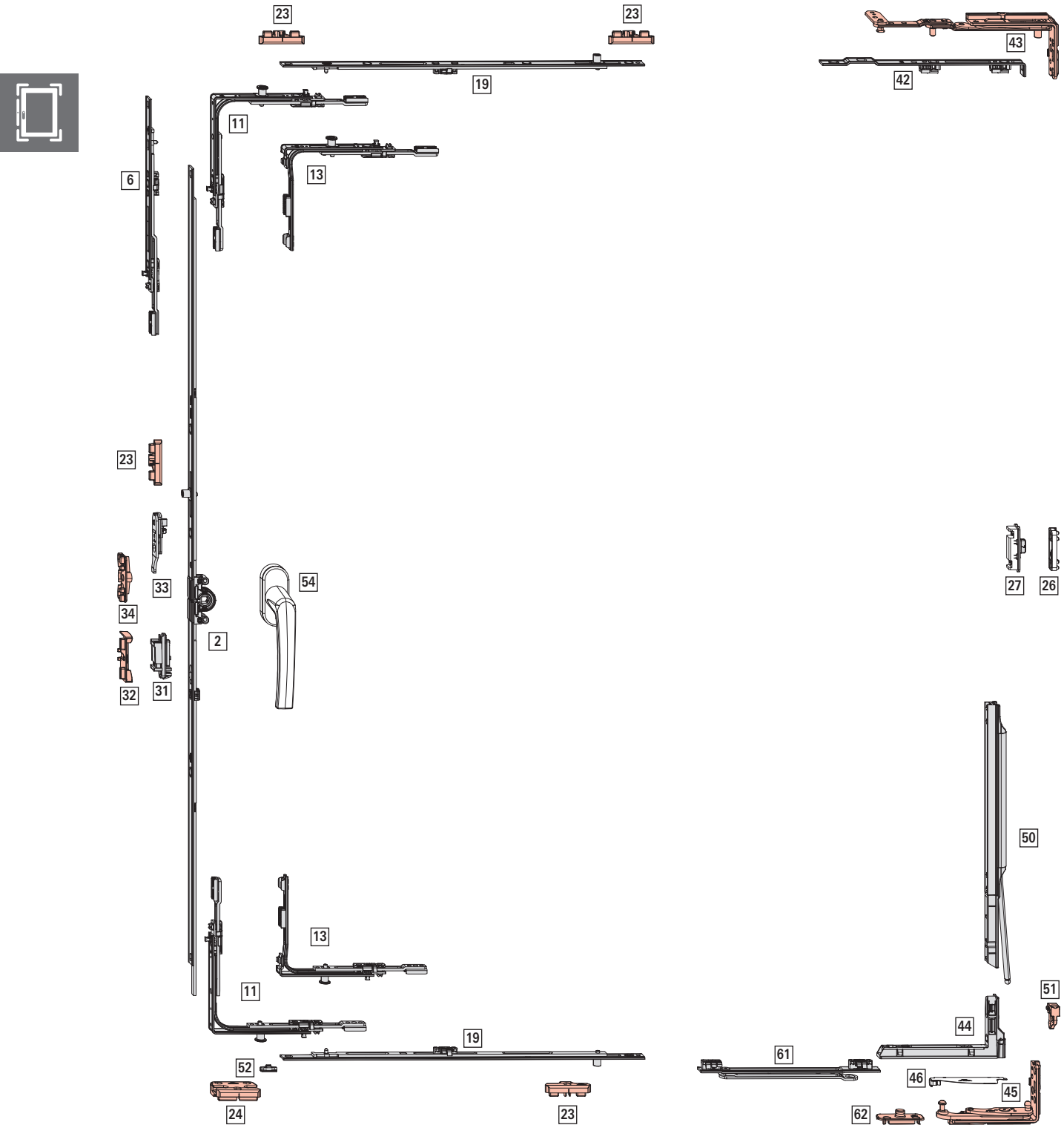
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3.2.2.3 Turn-Only hardware

3.2.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[34]	Lifting mishandling device frame component → <i>from page 399</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[52]	Travel restrictor → <i>from page 424</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</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	Max. 150 kg



INFO

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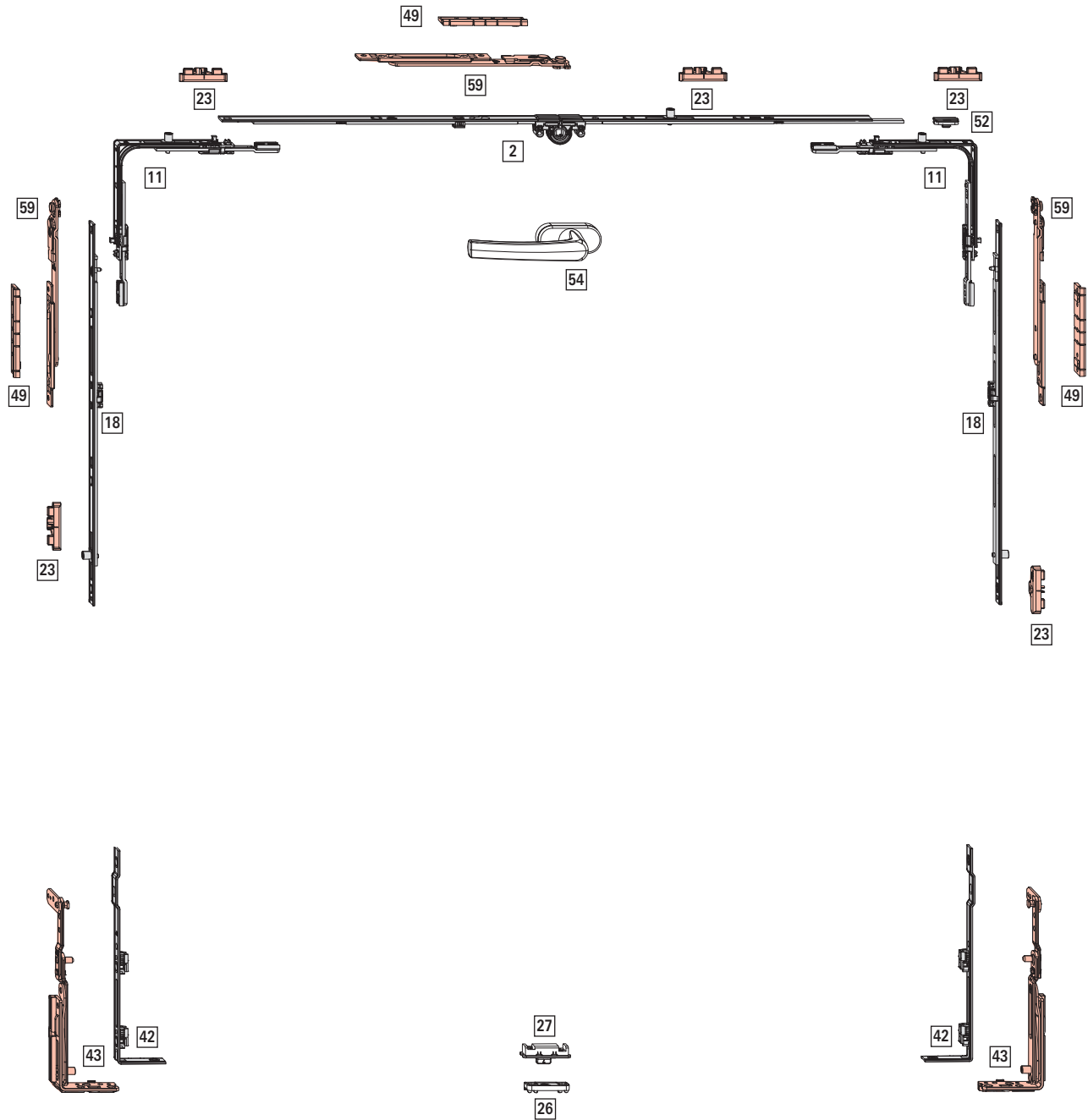
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3.2.2.4 Tilt-Only hardware

3.2.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[11]	Corner drive, standard → <i>from page 266</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[52]	Travel restrictor → <i>from page 424</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 373</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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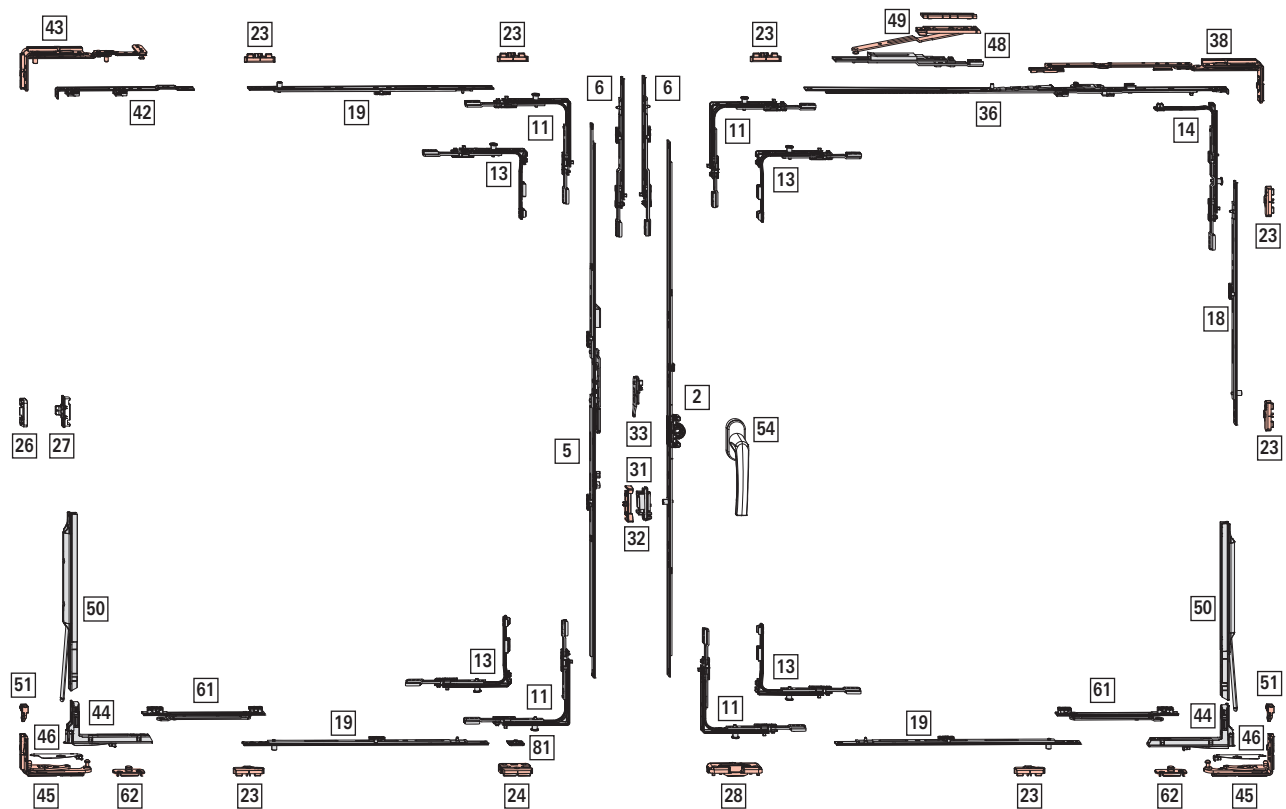
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3.2.2.5 Floating-mullion hardware – standard

3.2.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 253</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</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	Max. 150 kg



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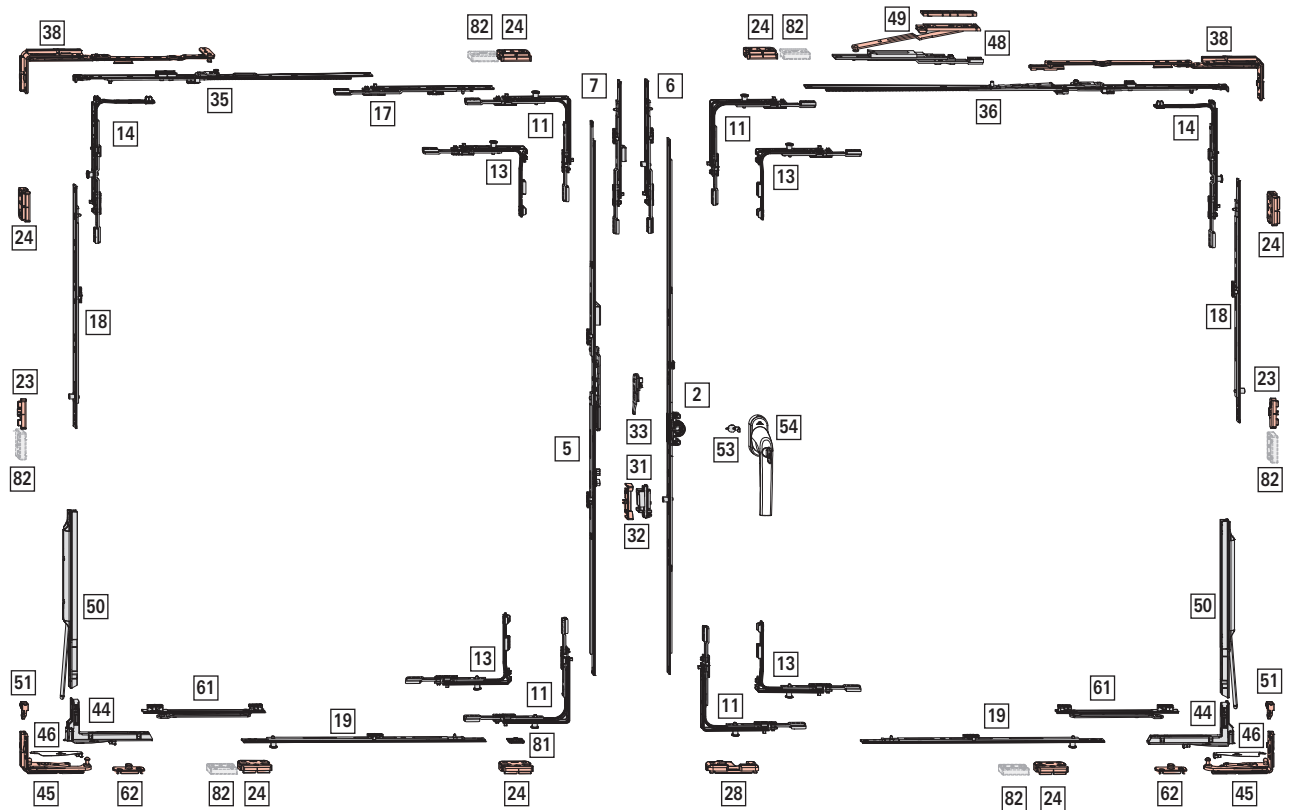
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3.2.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 253</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 318</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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	Max. 150 kg



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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 222</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 253</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 318</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</i>
[84]	Safety device for floating-mullion sash → <i>from page 410</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)	510 – 2400 mm	1000 – 2400 mm
	Sash weight (S.kg)	Max. 100 kg	Max. 150 kg



INFO

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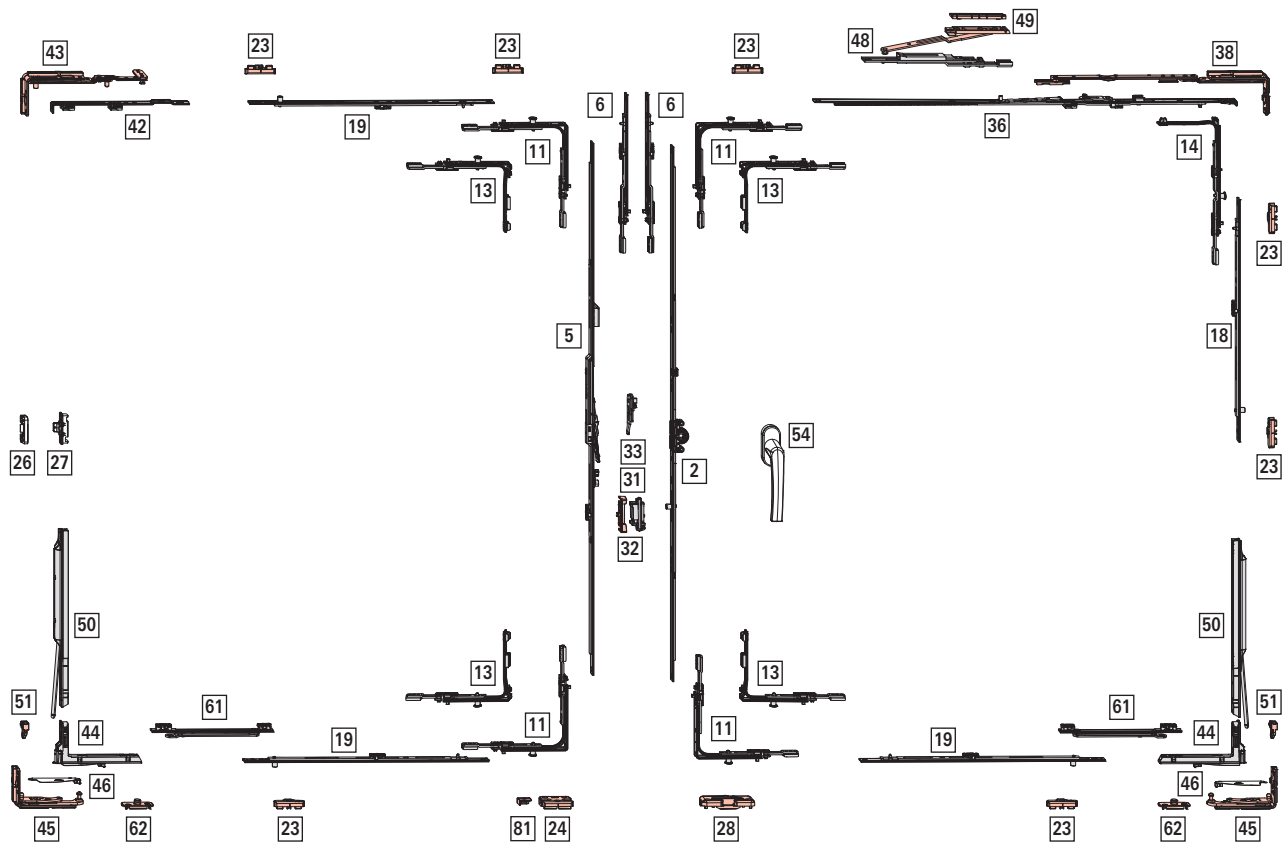
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3.2.2.6 Floating-mullion hardware – Plus

3.2.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 259</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[26]	Concealed centre closer frame component → <i>from page 422</i>
[27]	Concealed centre closer sash component → <i>from page 422</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[42]	Rebate stay guide → <i>from page 299</i>
[43]	Rebate stay arm → <i>from page 301</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</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)	420 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	Max. 150 kg



INFO

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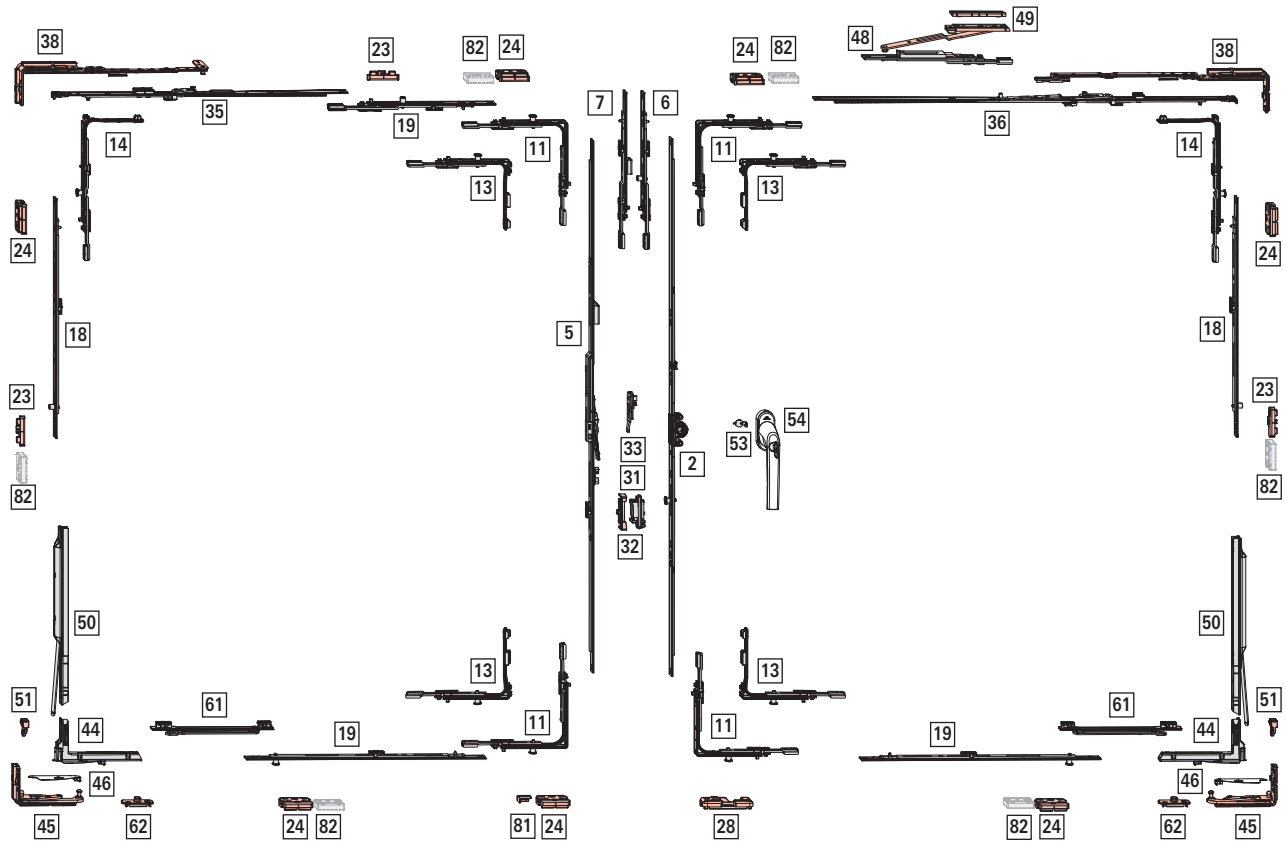
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3.2.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 259</i>
[6]	Centre lock, multipart – standard → <i>from page 318</i>
[7]	Floating-mullion centre lock → <i>from page 322</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 318</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 318</i>
[23]	Striker → <i>from page 356</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Stay guide, basic security → <i>from page 282</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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)	420 – 2600 mm	1000 – 2600 mm
	Sash weight (S.kg)	Max. 100 kg	Max. 150 kg



INFO

Roto Con Orders

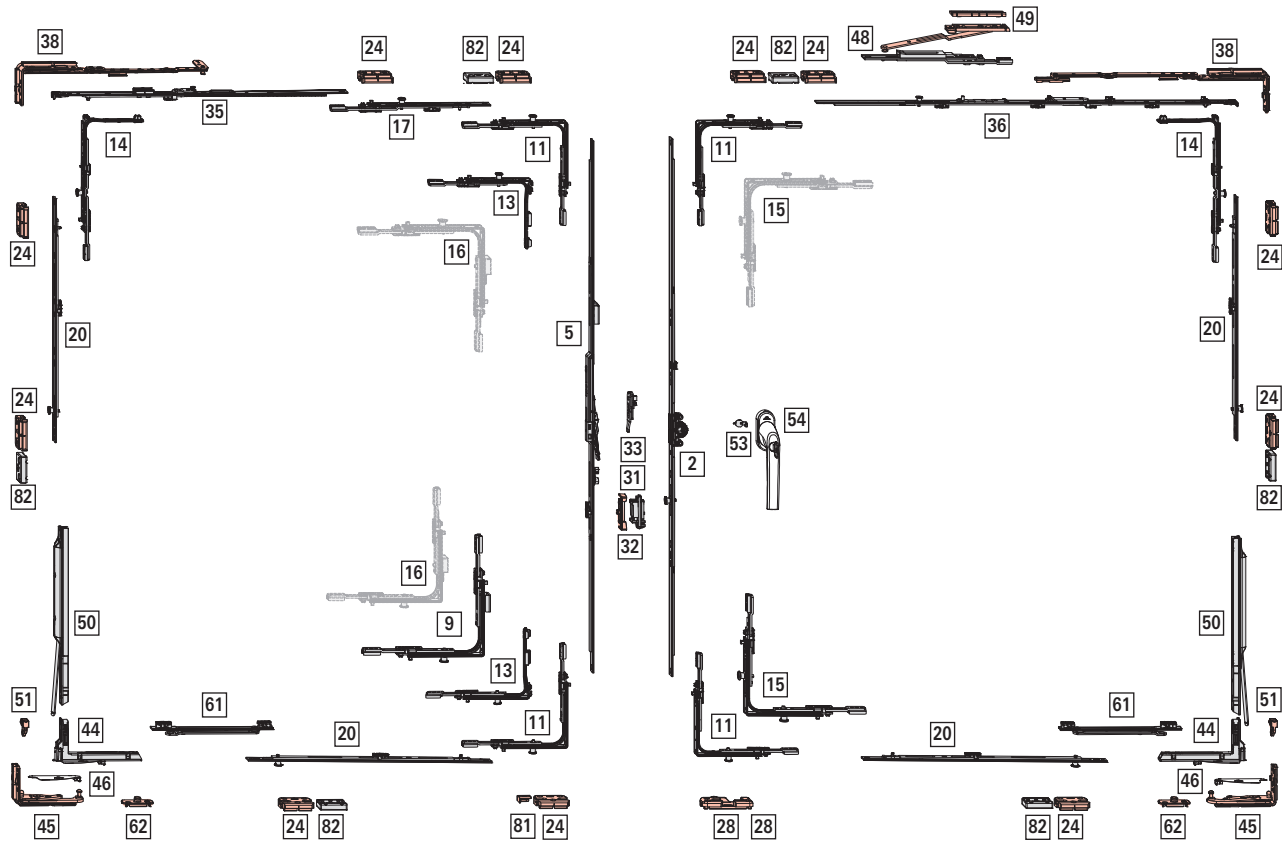
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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



www.roto-frank.com



3.2.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 222</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 259</i>
[11]	Corner drive, standard → <i>from page 266</i>
[13]	Special corner drive, short → <i>from page 267</i>
[14]	Sash stay corner drive → <i>from page 270</i>
[15]	Corner drive, standard RC 3 → <i>from page 266</i>
[16]	Floating mullion corner drive – slide guard → <i>from page 268</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 319</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 319</i>
[24]	Security striker → <i>from page 357</i>
[28]	Tilt striker → <i>from page 350</i>
[31]	Bullet-catch sash component → <i>from page 388</i>
[32]	Bullet-catch frame component → <i>from page 388</i>
[33]	Lifting mishandling device sash component → <i>from page 401</i>
[35]	Turn-Only sash stay guide → <i>from page 284</i>
[36]	Security stay guide → <i>from page 283</i>
[38]	Stay arm → <i>290</i>
[44]	Corner hinge → <i>from page 338</i>
[45]	Pivot rest → <i>from page 340</i>
[46]	Pivot rest cover (optional) → <i>from page 341</i>
[48]	Additional stay arm → <i>from page 370</i>
[49]	Packer (profile-related) → <i>from page 417</i>
[50]	Load transfer sash component → <i>from page 343</i>
[51]	Load transfer frame component → <i>from page 343</i>
[53]	Drilling protection → <i>from page 410</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 409</i>
[62]	Turn restrictor 198, frame component → <i>from page 409</i>
[81]	Run-up block → <i>from page 415</i>
[82]	Anti-jemmy device → <i>from page 411</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	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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T&T espagnolette, VT – fixed handle height

Backset 8 mm	212
Backset 15 mm	214
Backset 25, 30, 35, 40, 45, 50 mm	217

T&T espagnolette – centred / variable handle height

Backset 8 mm	222
Backset 15 mm	223
Backset 25, 30, 35, 40, 45, 50 mm	225

T&T espagnolettes – Special solutions

T&T adaptable espagnolette	231
T&T espagnolette – comfort	236

Turn-Only/Tilt-Only espagnolette

Backset 8 mm	237
Backset 15 mm	239
Backset 25, 30, 35, 40, 45, 50 mm	242

Espagnolette connector

VT	245
Protrusion	245
Tilt-Only sash	246
Lateral Tilt&Turn	246
Arched window	246
Floating-mullion sash	247

Floating-mullion sash espagnolette

Standard	248
Plus	254
Separate toggle lever	259

Shootbolt

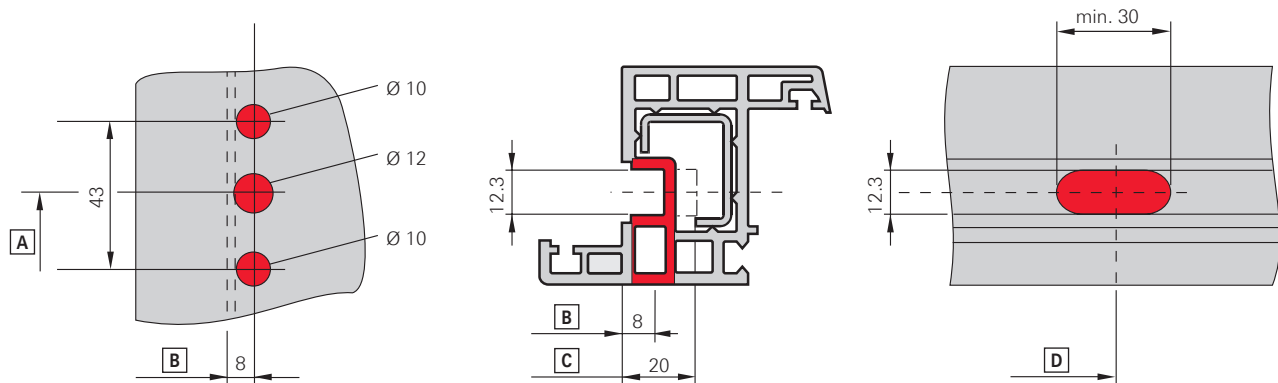
Opposite hardware groove	261
Euro-rebate	261

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
[C]	Minimum routing depth
[D]	Centre of gearbox



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 x ... DIN EN ISO 7046.



4.1.1.2 Fixed handle height



											Nº
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	

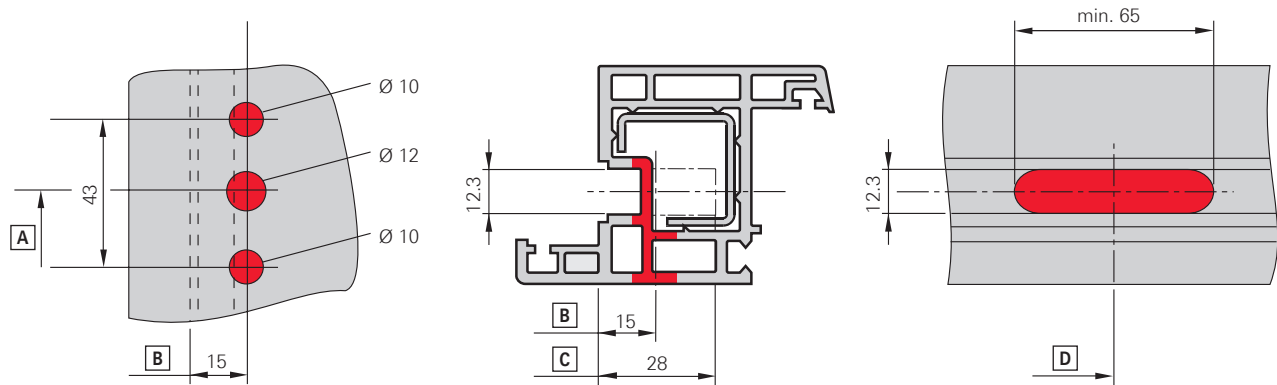


INFO

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
[C]	Minimum routing depth
[D]	Centre of gearbox

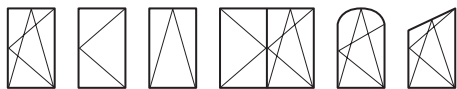
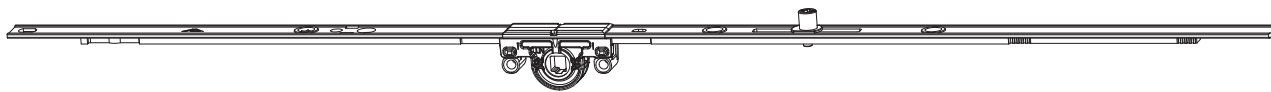


INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 x ... DIN EN ISO 7046.



4.1.2.2 Fixed handle height



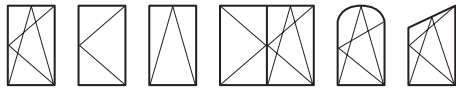
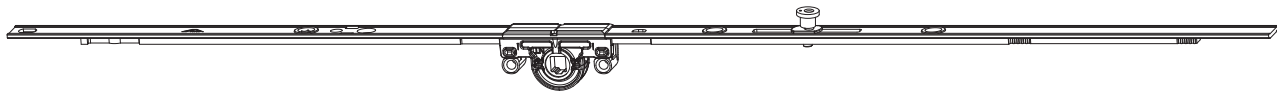
												Nº
15	280 – 570	460	200	120	N	N	Y	– / 1	– / P	Roto Sil	742199	
	511 – 710	600	200	170	Y	N	Y	– / 1	– / P	Roto Sil	795324	
			200	170	Y	N	N	1 / –	P / –	Roto Sil	795277	
	601 – 800	690	200	263	Y	N	N	– / –	– / –	Roto Sil	619591	
			200	263	N	N	N	1 / –	E / –	Roto Sil	893472	
	801 – 1000	890	200	413	Y	N	N	– / –	– / –	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



												Nº
15	601 – 800	690	200	263	Y	N	N	– / –	– / –	Roto Sil	619591	
	801 – 1000	890	200	413	Y	N	N	1 / –	V / –	Roto Sil	626542	
	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

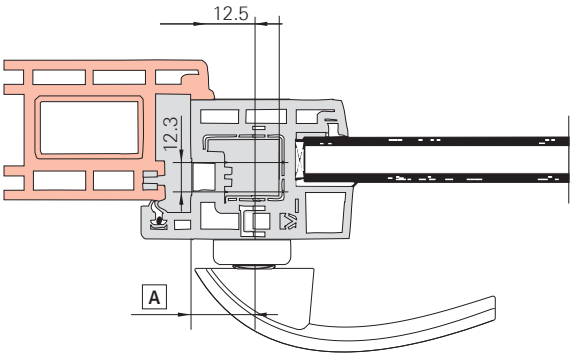
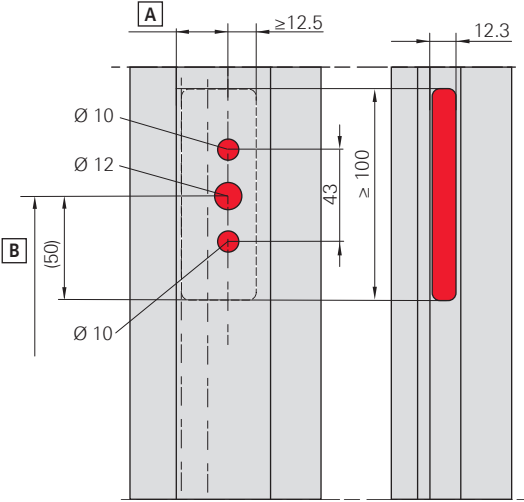
A centre lock is required from SRH 2401 mm.



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

4.1.3.1 Drilling and routing pattern

Not lockable



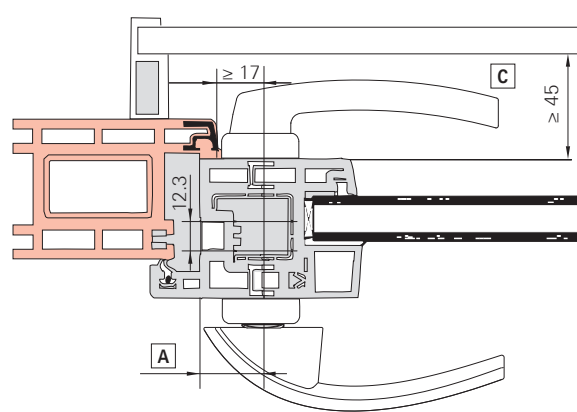
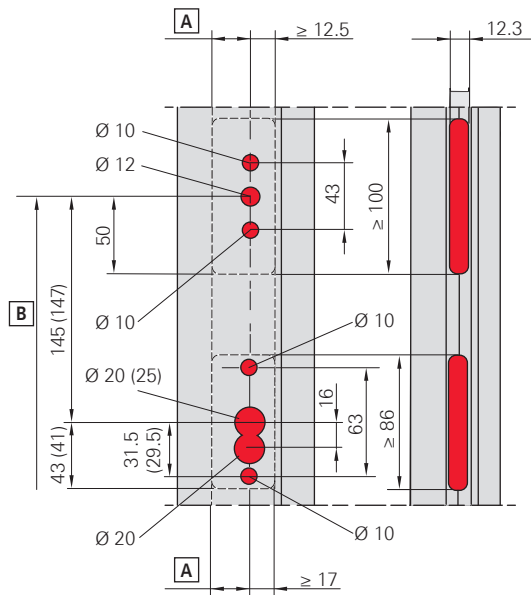
Assignment	Meaning
[A]	Backset
[B]	Handle height



INFO

Cross section: windows and doors (outward opening).

Lockable



Assignment	Meaning
[A]	Backset
[B]	Handle height
[C]	On roller shutters

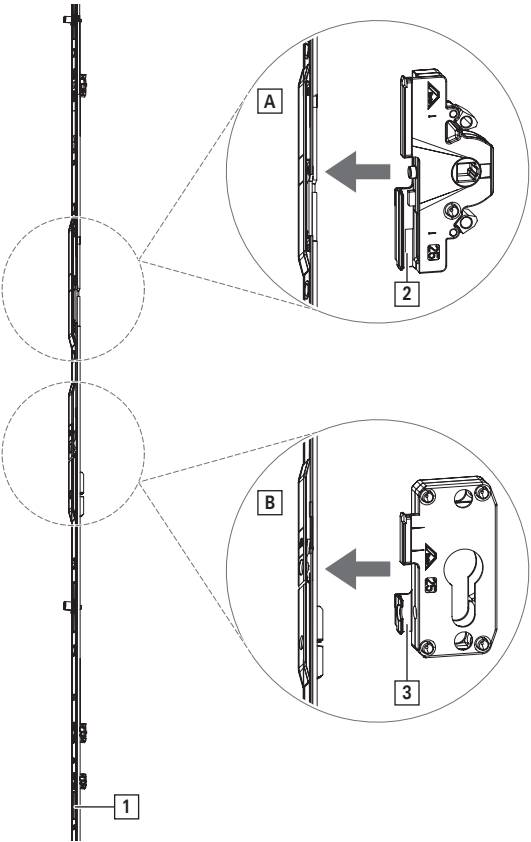


INFO

Cross section: doors (inward opening).



4.1.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – fixed handle height → <i>from page 220</i>
[2]	Gearbox → <i>from page 220</i>
[3]	Lock casing – profile cylinder → <i>from page 221</i> Lock casing – round cylinder (not sh.) → <i>from page 221</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate
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	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 220*.

For compatible lock casings, see → *from page 221*.



INFO

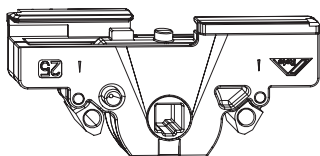
Lock casing requires an espagnolette faceplate with product feature bullet catch “Y”.



INFO

A centre lock is required from SRH 2401 mm.

4.1.3.4 Gearbox



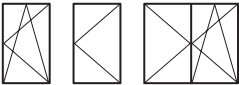
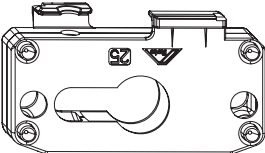
		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679



		Nº
45	Roto Sil	787680
50	Roto Sil	787681

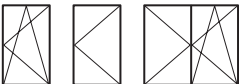
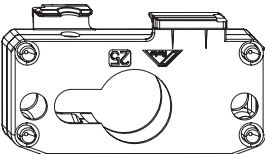
4.1.3.5 Lock casing

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

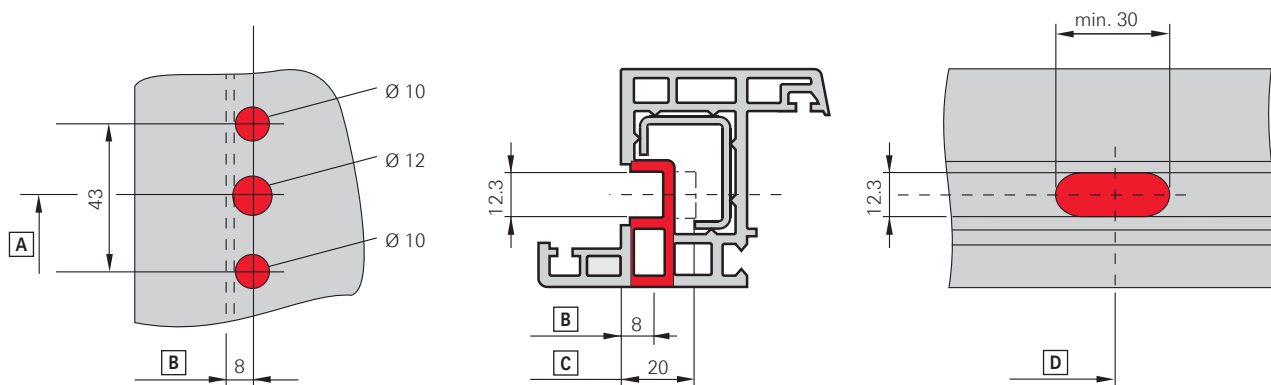


		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279

4.2 T&T espagnolette – centred / variable handle height

4.2.1 Backset 8 mm

4.2.1.1 Drilling and routing pattern



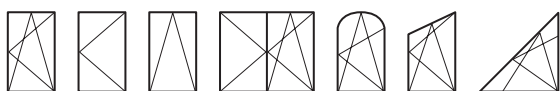
Assignment	Meaning
[A]	Handle height
[B]	Backset
[C]	Minimum routing depth
[D]	Centre of gearbox



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 x ... DIN EN ISO 7046.

4.2.1.2 Centred / variable handle height



8	380 – 620	500	100 / 100	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

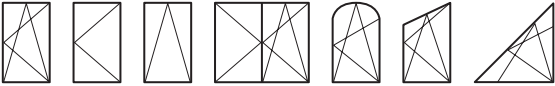


INFO

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

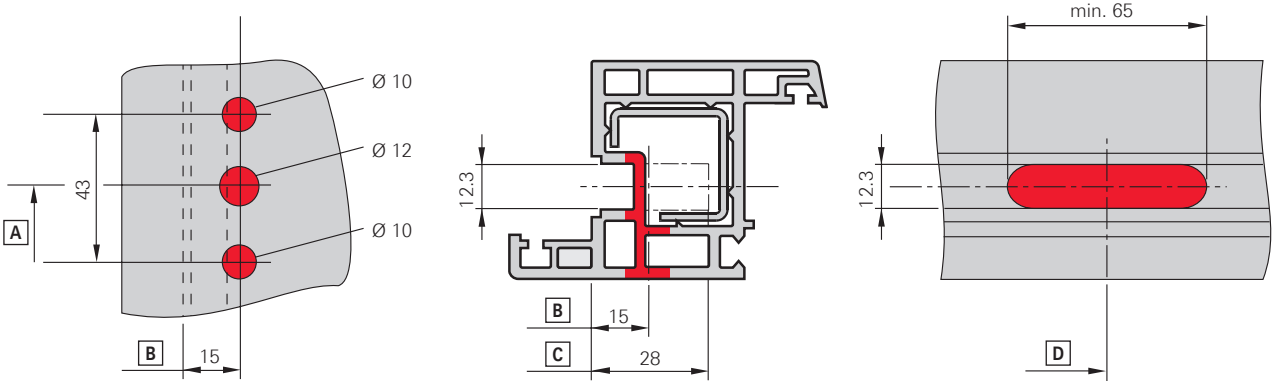


INFO

A centre lock is required from SRH 2401 mm.

4.2.2 Backset 15 mm

4.2.2.1 Drilling and routing pattern



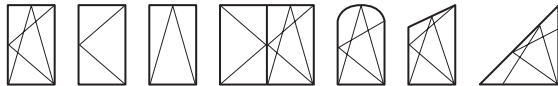
Assignment	Meaning
[A]	Handle height
[B]	Backset
[C]	Minimum routing depth
[D]	Centre of gearbox



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 x ... DIN EN ISO 7046.

4.2.2.2 Centred / variable handle height



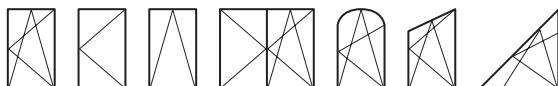
										
15	310 – 620	430	100 / 100	155 – 225	N	N	–	–	Roto Sil	259717
	310 – 850	630	200 / 200	155 – 425	N	N	–	–	Roto Sil	742202
	621 – 800	580	90 / 90	311 – 400	Y	N	–	–	Roto Sil	289862
	621 – 800		90 / 90	311 – 400	Y	N	1	E	Roto Sil	259719
	801 – 1200	980	200 / 200	401 – 600	Y	N	–	–	Roto Sil	289863
	801 – 1200		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	155 – 225	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

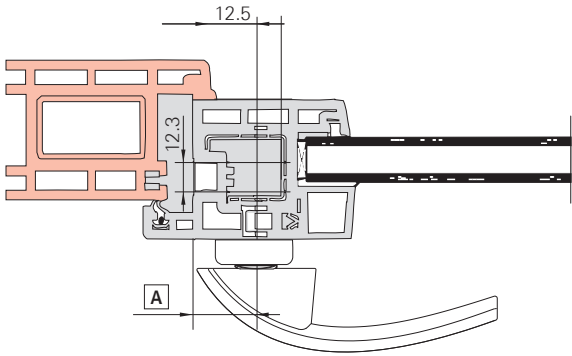
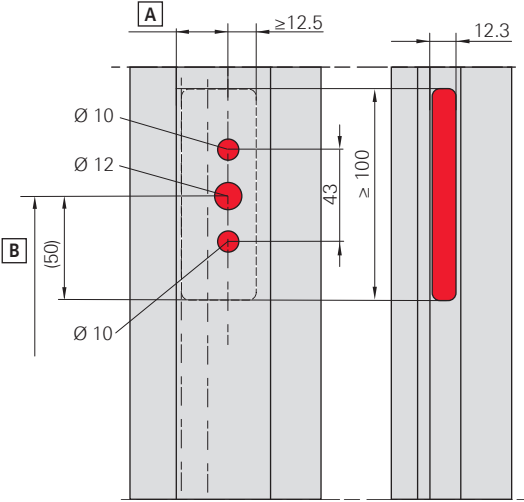
A centre lock is required from SRH 2401 mm.



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

4.2.3.1 Drilling and routing pattern

Not lockable



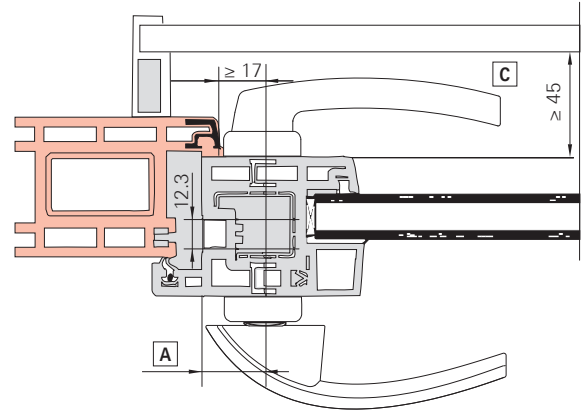
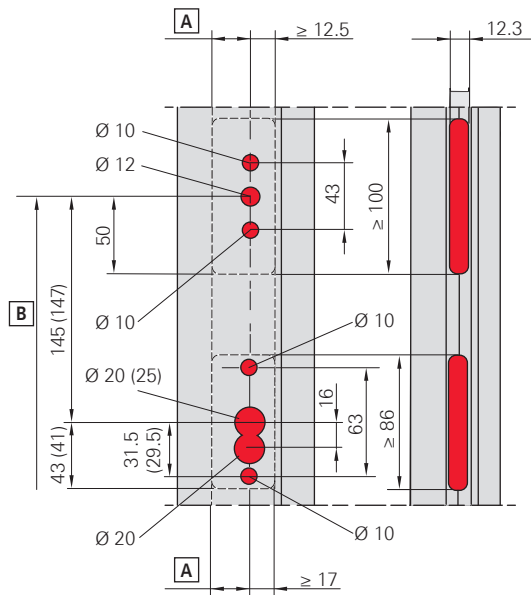
Assignment	Meaning
[A]	Backset
[B]	Handle height



INFO

Cross section: windows and doors (outward opening).

Lockable



Assignment	Meaning
[A]	Backset
[B]	Handle height
[C]	On roller shutters

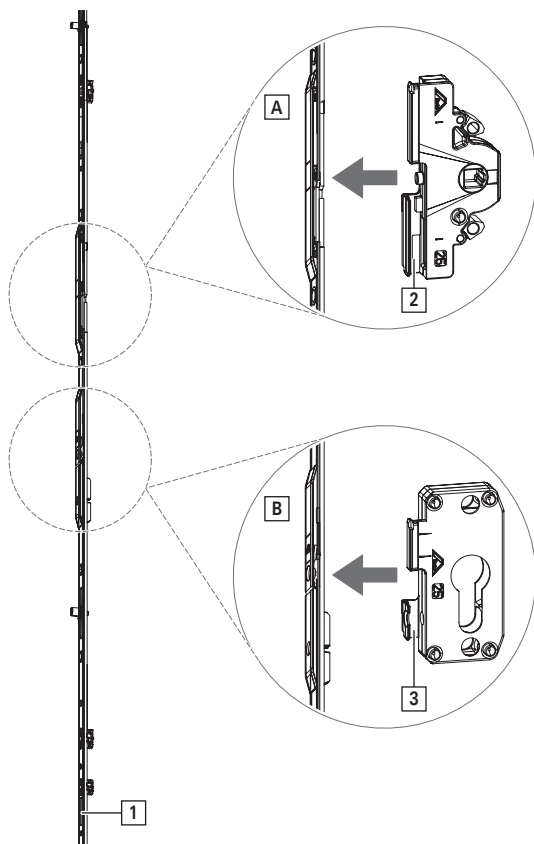


INFO

Cross section: doors (inward opening).



4.2.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 227</i>
[2]	Gearbox → <i>from page 229</i>
[3]	Lock casing – profile cylinder → <i>from page 230</i> Lock casing – round cylinder (not sh.) → <i>from page 230</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate
INFO  Lock casing requires an espagnolette faceplate with product feature  bullet catch “J”.	

4.2.3.3 Espagnolette faceplate – centred / variable handle height



										Nº
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 229*.

For compatible lock casings, see → *from page 230*.



INFO

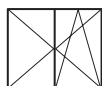
Lock casing requires an espagnolette faceplate with product feature  bullet catch “Y”.



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 229*.

For compatible lock casings, see → *from page 230*.



INFO

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



INFO

A centre lock is required from SRH 2401 mm.

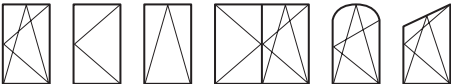
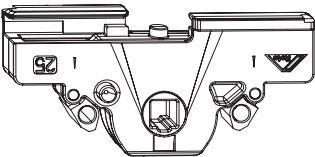


INFO

Stop for lifting mishandling device is integrated.



4.2.3.5 Gearbox

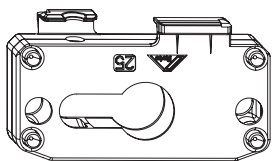


			Nº
25		Roto Sil	787675
30		Roto Sil	787677
35		Roto Sil	787678
40		Roto Sil	787679
45		Roto Sil	787680
50		Roto Sil	787681



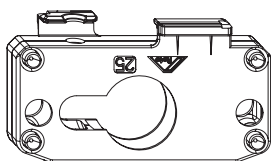
4.2.3.6 Lock casing

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
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279

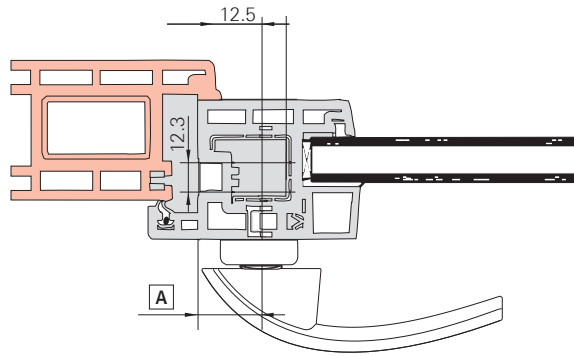
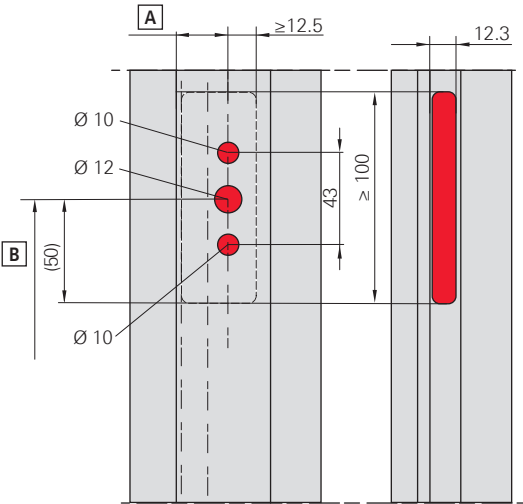


4.3 T&T espagnolettes – Special solutions

4.3.1 T&T adaptable espagnolette

4.3.1.1 Drilling and routing pattern

Not lockable



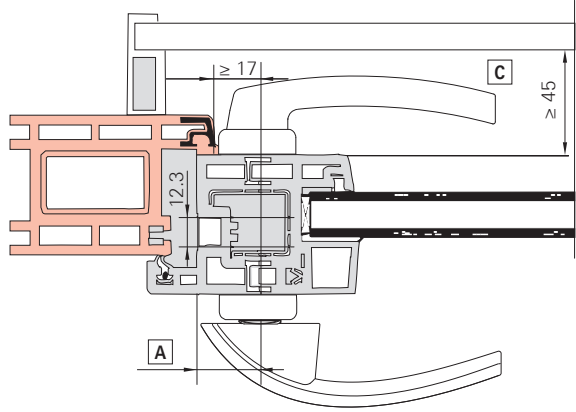
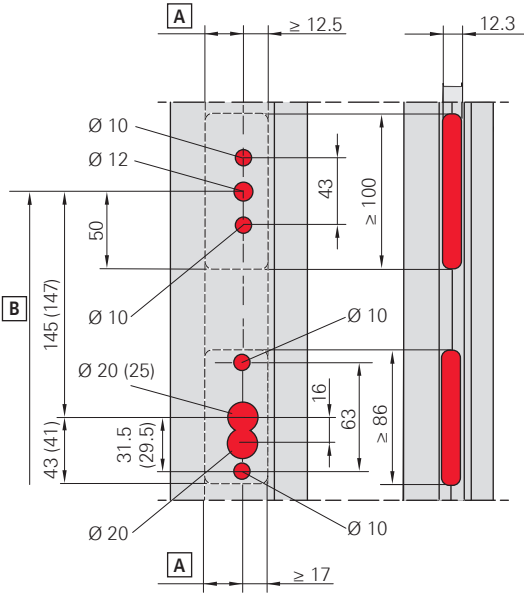
Assignment	Meaning
[A]	Backset
[B]	Handle height



INFO

Cross section: windows and doors (outward opening).

Lockable



Assignment	Meaning
[A]	Backset
[B]	Handle height
[C]	On roller shutters

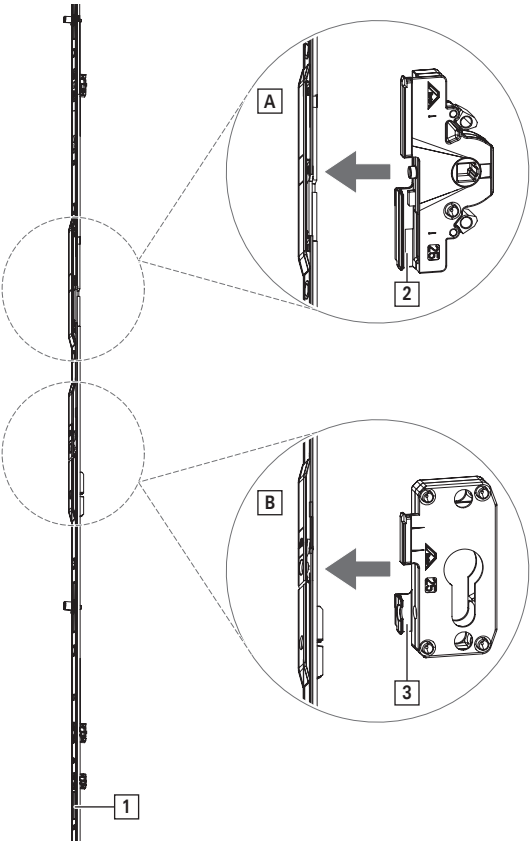


INFO

Cross section: doors (inward opening).

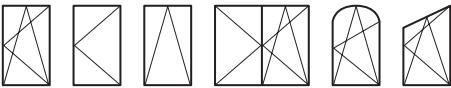


4.3.1.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 233</i>
[2]	Gearbox → <i>from page 234</i>
[3]	Lock casing – profile cylinder → <i>from page 235</i> Lock casing – round cylinder (not sh.) → <i>from page 235</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



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

For compatible gearboxes, see → *from page 234*.

For compatible lock casings, see → *from page 235*.



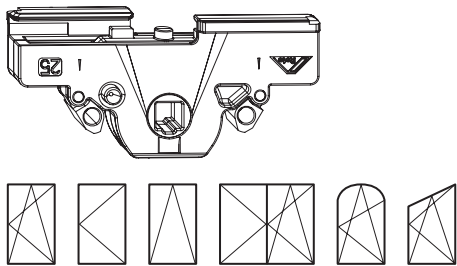
INFO

In conjunction with

Centre lock, couplable: see → *from page 318*.

Espagnolette centre lock: see → *from page 321*.

4.3.1.4 Gearbox

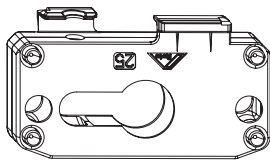


			Nº
	25	Roto Sil	787675
	30	Roto Sil	787677
	35	Roto Sil	787678
	40	Roto Sil	787679
	45	Roto Sil	787680
	50	Roto Sil	787681



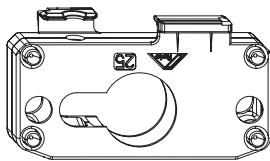
4.3.1.5 Lock casing

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



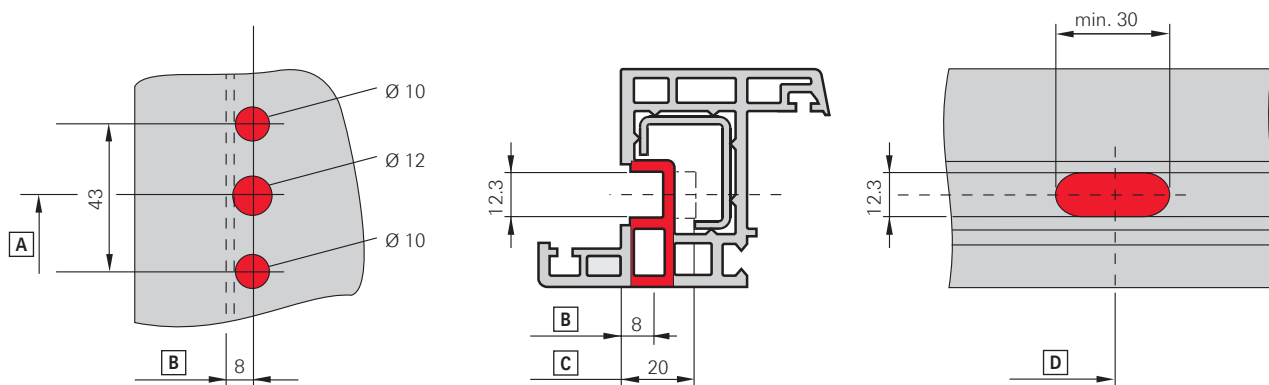
		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279



4.4 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
[C]	Minimum routing depth
[D]	Centre of gearbox



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 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

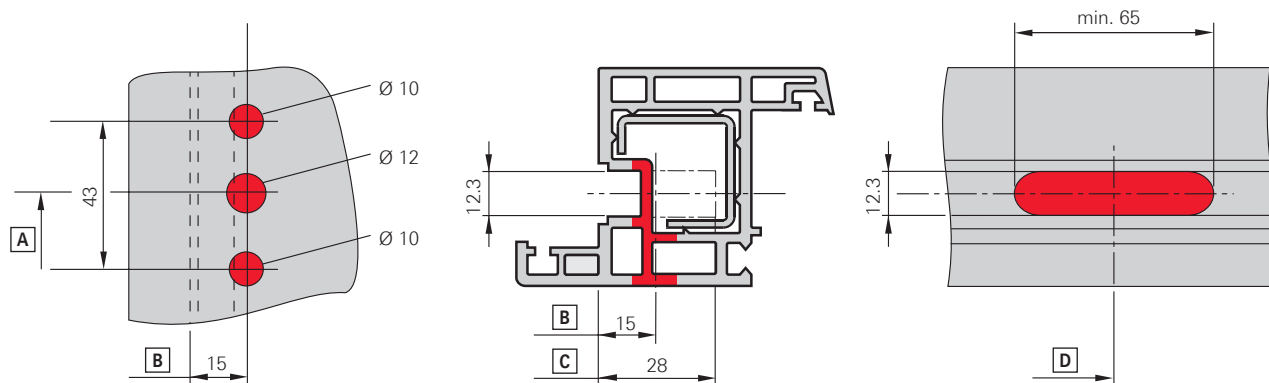


												Nº
8	238 – 390	238	0 / 0	88 – 119	N	N	1	E	Roto Sil	260136		
	391 – 500	500	55 / 55	125 – 250	N	N	1	E	Roto Sil	260137		
	501 – 800	800	150 / 150	251 – 400	N	N	2	E	Roto Sil	260138		
	801 – 1100	1100	150 / 150	401 – 550	N	N	3	E	Roto Sil	260139		
	1101 – 1400	1400	150 / 150	551 – 700	N	N	3	E	Roto Sil	260140		
	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
[C]	Minimum routing depth
[D]	Centre of gearbox



INFO

Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 x ... DIN EN ISO 7046.

4.4.2.2 Fixed handle height



											
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



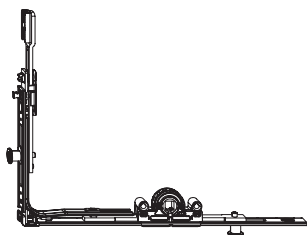
4.4.2.3 Centred / variable handle height



											Nº
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	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	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	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	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	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	300 / 300	901 – 1200	N	Y		4	E	Roto Sil	795415
			300 / 300	901 – 1200	N	Y		4	P	Roto Sil	795416



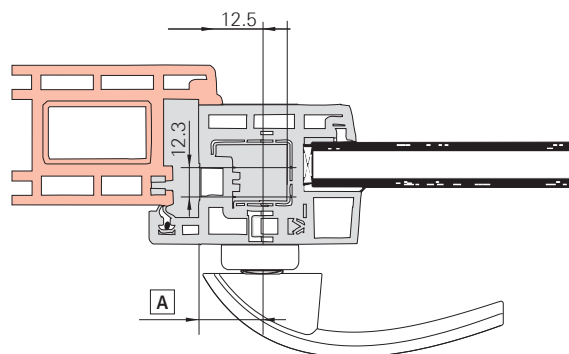
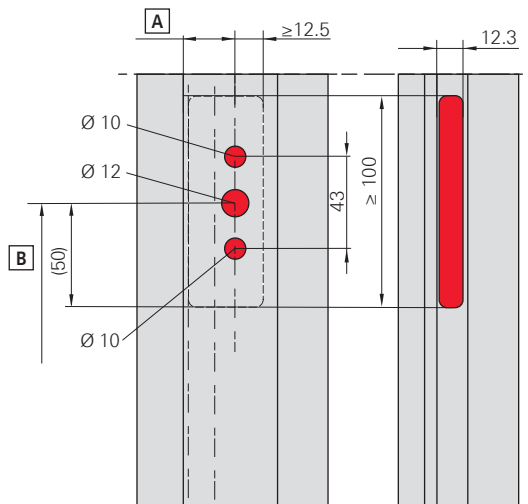
4.4.2.4 Handle position at the bottom



											Nº
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
[A]	Backset
[B]	Handle height

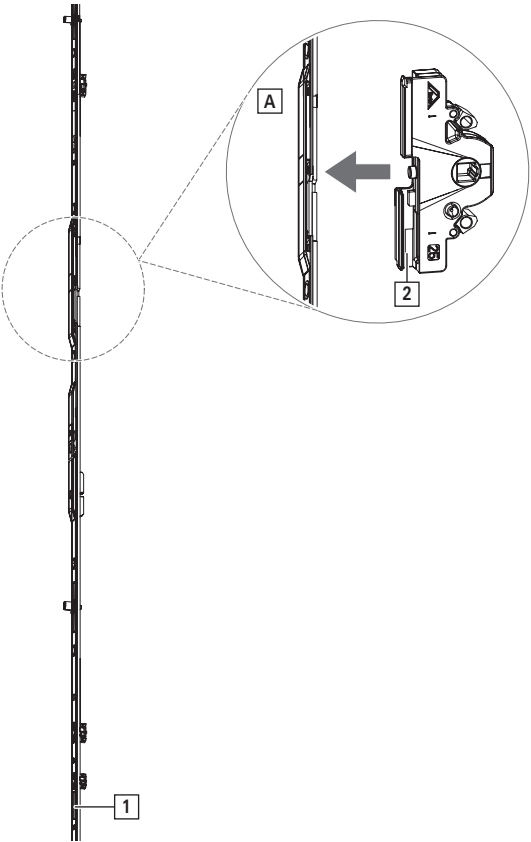


INFO

Cross section: windows and doors (outward opening).

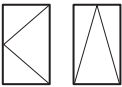


4.4.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 243</i>
[2]	Gearbox → <i>from page 244</i>
[A]	Gearbox which can be installed in the espagnolette faceplate

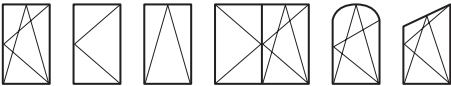
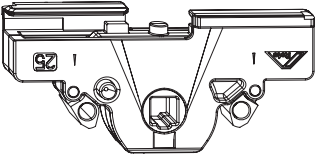
4.4.3.3 Espagnolette faceplate – centred / variable handle height



											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 244*.

4.4.3.4 Gearbox

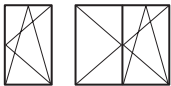
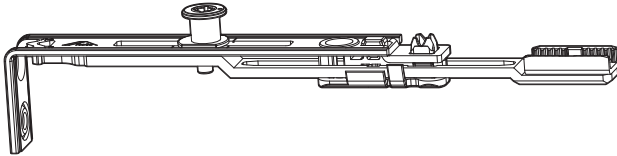


			Nº
25		Roto Sil	787675
30		Roto Sil	787677
35		Roto Sil	787678
40		Roto Sil	787679
45		Roto Sil	787680
50		Roto Sil	787681

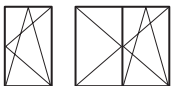
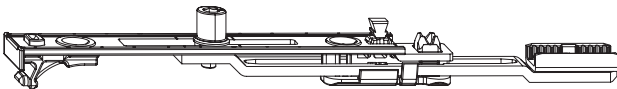


4.5 Espagnolette connector

4.5.1 VT



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

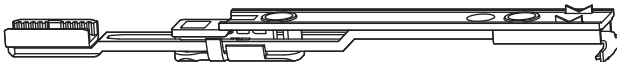


					Nº
VT espagnolette connector without protrusion	110	1	E	Roto Sil	794225

4.5.2 Protrusion

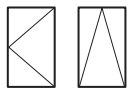
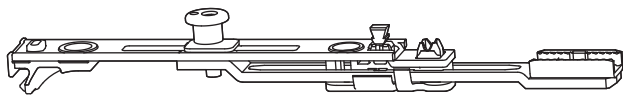


				Nº
Espagnolette connector with bolt extension and reverse-action travel	110	11	Roto Sil	312032
	110	18	Roto Sil	312033



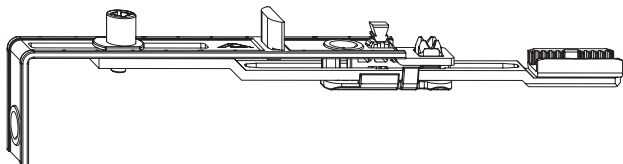
				Nº
Espagnolette connector with bolt extension, without reverse-action travel	110	11	Roto Sil	457626
	110	14	Roto Sil	349187

4.5.3 Tilt-Only sash



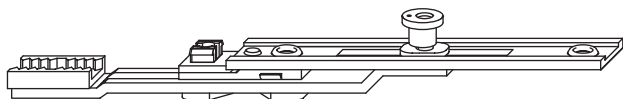
				Nº
Tilt-Only sash espagnolette connector	1	V	Roto Sil	382716

4.5.4 Lateral Tilt&Turn



					Nº
Espagnolette connector for lateral Tilt&Turn	Top	1	E	Roto Sil	735563
	Bottom	1	E	Roto Sil	735562

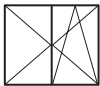
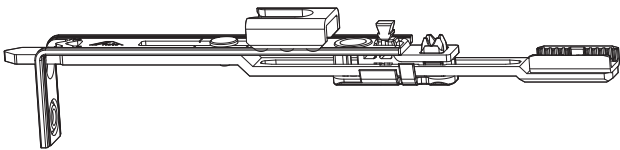
4.5.5 Arched window



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



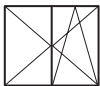
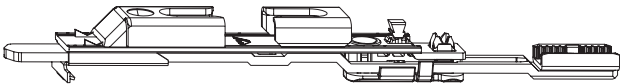
4.5.6 Floating-mullion sash



					
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.



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



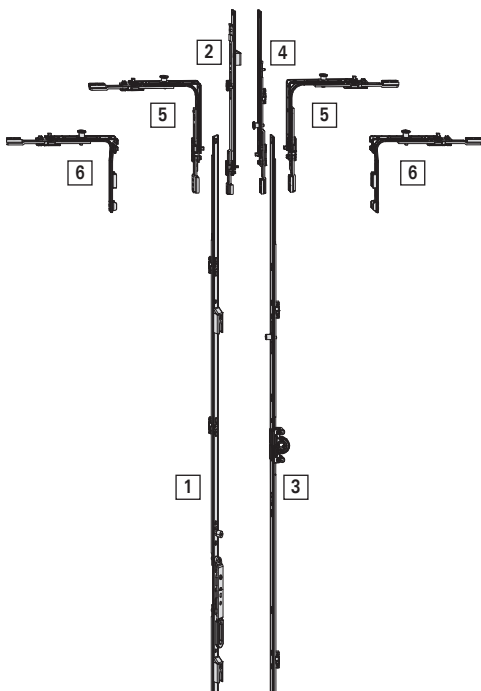
INFO
Can only be used in combination with standard floating-mullion sash espagnolette.

4.6 Floating-mullion sash espagnolette

4.6.1 Standard

4.6.1.1 VT – fixed handle height

4.6.1.1.1 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 322*

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 212*

□ T&T espagnolette, VT – fixed handle height, backset 15 mm → *from page 212*

□ T&T espagnolette, VT – fixed handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 212*

Optional: determine the centre lock, standard [4] → *from page 318*.



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 267</i>	490	120	N	Corner drive, standard → <i>from page 266</i>
511 – 600			Corner drive, standard → <i>from page 266</i>	600	170	N	Corner drive, standard → <i>from page 266</i>
601 – 800	690	325	Corner drive, standard → <i>from page 266</i>	690	263	N	Corner drive, standard → <i>from page 266</i>
801 – 1000	890	335	Corner drive, standard → <i>from page 266</i>	890	413	Y	Corner drive, standard → <i>from page 266</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 266</i>	1090	513	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 266</i>	1290	563	Y	Corner drive, standard → <i>from page 266</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 266</i>	1490	563	Y	Corner drive, standard → <i>from page 266</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 266</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 266</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 266</i>	1890	1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 266</i>	2090	1000	Y	Corner drive, standard → <i>from page 266</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 266</i>	2290	1000	Y	Corner drive, standard → <i>from page 266</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

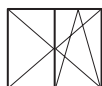
Application range		Lever-operated espagnolette, standard VT		T&T espagnolette, VT			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
280 – 370	445	156	Special corner drive, short → <i>from page 267</i>	460	120	N	Special corner drive, short → <i>from page 267</i>
371 – 555	445	156	Corner drive, standard → <i>from page 266</i>	460	120	N	Corner drive, standard → <i>from page 266</i>
431 – 510	600	195	Special corner drive, short → <i>from page 267</i>	460	120	N	Corner drive, standard → <i>from page 266</i>
511 – 600			Corner drive, standard → <i>from page 266</i>	600	170	Y	Corner drive, standard → <i>from page 266</i>
601 – 800	690	300	Corner drive, standard → <i>from page 266</i>	690	263	Y	Corner drive, standard → <i>from page 266</i>
801 – 1000	890	490	Corner drive, standard → <i>from page 266</i>	890	413	Y	Corner drive, standard → <i>from page 266</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 266</i>	1090	513	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 266</i>	1290	563	Y	Corner drive, standard → <i>from page 266</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 266</i>	1490	563	Y	Corner drive, standard → <i>from page 266</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 266</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 266</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 266</i>	1890	1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 266</i>	2090	1000	Y	Corner drive, standard → <i>from page 266</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 266</i>	2290	1000	Y	Corner drive, standard → <i>from page 266</i>



INFO

A centre lock is required from SRH 2401 mm.

4.6.1.1.2 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.



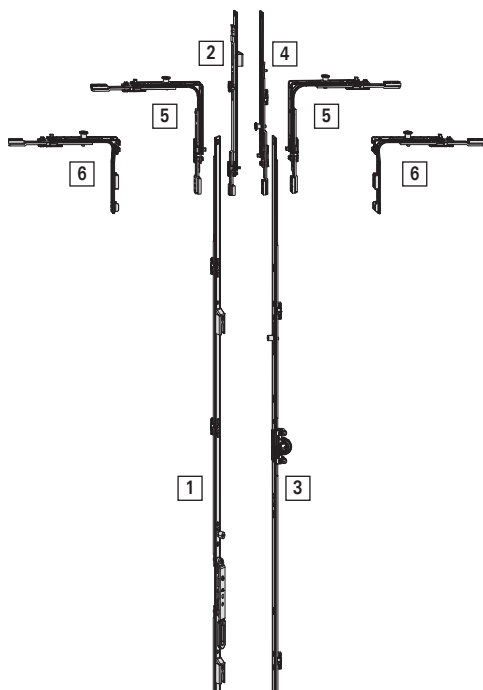
INFO

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 282*



4.6.1.2 Centred / variable handle height

4.6.1.2.1 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 322*

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 222*
- ☐ T&T espagnolette – centred / variable handle height, backset 15 mm → *from page 222*
- ☐ T&T espagnolette – centred / variable handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 222*

Optional: determine the centre lock, standard [4]. → *from page 318*

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 267</i>	800	311 – 510	N	Corner drive, standard → <i>from page 266</i>
801 – 900		276 – 335	Corner drive, standard → <i>from page 266</i>	980	351 – 400	N	Corner drive, standard → <i>from page 266</i>
901 – 1200	980	249 – 448	Corner drive, standard → <i>from page 266</i>		401 – 600	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1600	1380	448 – 658	Corner drive, standard → <i>from page 266</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 266</i>
1601 – 2000	1780	680 – 880	Corner drive, standard → <i>from page 266</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2400	2180	880 – 1080	Corner drive, standard → <i>from page 266</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 266</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 267</i>	430	215 – 225	N	Special corner drive, short → <i>from page 267</i>
451 – 520		266 – 300	Special corner drive, short → <i>from page 267</i>		226 – 260	N	Corner drive, standard → <i>from page 266</i>
521 – 620		301 – 350	Corner drive, standard → <i>from page 266</i>		261 – 310	N	Corner drive, standard → <i>from page 266</i>
621 – 650	680	393 – 407	Special corner drive, short → <i>from page 267</i>	510	311 – 400	Y	Corner drive, standard → <i>from page 266</i>
651 – 800		408 – 482	Corner drive, standard → <i>from page 266</i>				
801 – 1200	980	482 – 682	Corner drive, standard → <i>from page 266</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1600	1380	448 – 648	Corner drive, standard → <i>from page 266</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 266</i>
1601 – 2000	1780	680 – 880	Corner drive, standard → <i>from page 266</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2400	2180	880 – 1080	Corner drive, standard → <i>from page 266</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 266</i>

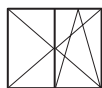
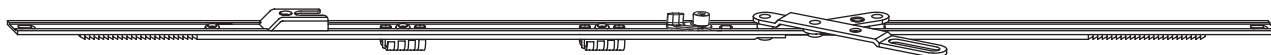


INFO

A centre lock is required from SRH 2401 mm.



4.6.1.2.2 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		801 – 1200	980	200 / 200	482 – 682	Y	N	1	Roto Sil	763126
35										
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		2001 – 2400	2180	200 / 200	880 – 1080	Y	Y	4	Roto Sil	795484
30										
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 410*.



INFO

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



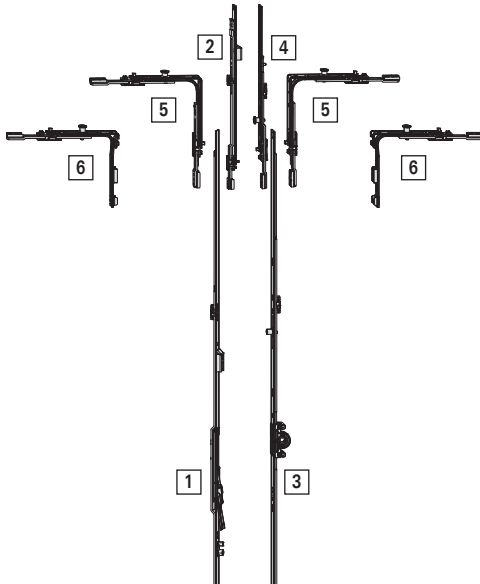
INFO

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 282*

4.6.2 Plus

4.6.2.1 VT – fixed handle height

4.6.2.1.1 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 322*

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 212*

□ T&T espagnolette, VT – fixed handle height, backset 15 mm → *from page 212*

□ T&T espagnolette, VT – fixed handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 212*

Optional: determine the centre lock, standard [4]. → *from page 318*



Backset 8 mm

Application range		Lever-operated espagnolette Plus, 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 267</i>	490	120	N	Corner drive, standard → <i>from page 266</i>
511 – 600			Corner drive, standard → <i>from page 266</i>	600	170	N	Corner drive, standard → <i>from page 266</i>
601 – 800	690	325	Corner drive, standard → <i>from page 266</i>	690	263	N	Corner drive, standard → <i>from page 266</i>
801 – 1000	890	335	Corner drive, standard → <i>from page 266</i>	890	413	Y	Corner drive, standard → <i>from page 266</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 266</i>	1090	513	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 266</i>	1290	563	Y	Corner drive, standard → <i>from page 266</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 266</i>	1490	563	Y	Corner drive, standard → <i>from page 266</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 266</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 266</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 266</i>	1890	1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 266</i>	2090	1000	Y	Corner drive, standard → <i>from page 266</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 266</i>	2290	1000	Y	Corner drive, standard → <i>from page 266</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

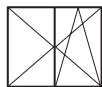
Application range		Lever-operated espagnolette Plus, VT		T&T espagnolette, VT			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 510	600	195	Special corner drive, short → <i>from page 267</i>	460	120	N	Corner drive, standard → <i>from page 266</i>
511 – 600			Corner drive, standard → <i>from page 266</i>	600	170	Y	Corner drive, standard → <i>from page 266</i>
601 – 800	690	300	Corner drive, standard → <i>from page 266</i>	690	263	Y	Corner drive, standard → <i>from page 266</i>
801 – 1000	890	490	Corner drive, standard → <i>from page 266</i>	890	413	Y	Corner drive, standard → <i>from page 266</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 266</i>	1090	513	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 266</i>	1290	563	Y	Corner drive, standard → <i>from page 266</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 266</i>	1490	563	Y	Corner drive, standard → <i>from page 266</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 266</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 266</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 266</i>	1890	1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 266</i>	2090	1000	Y	Corner drive, standard → <i>from page 266</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 266</i>	2290	1000	Y	Corner drive, standard → <i>from page 266</i>



INFO

A centre lock is required from SRH 2401 mm.

4.6.2.1.2 Backset 8 to 50 mm



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	496	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.



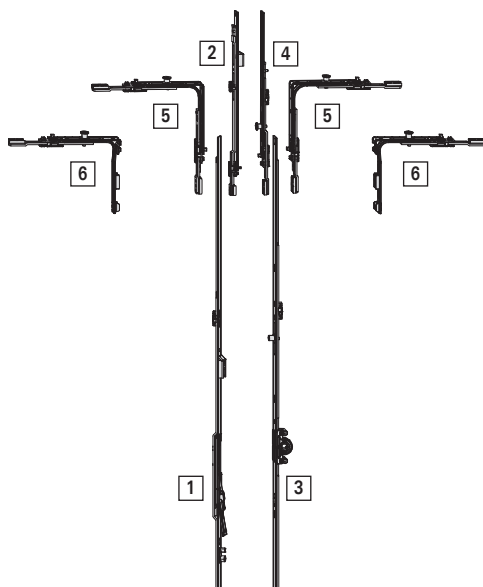
INFO

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 281*



4.6.2.2 Centred / variable handle height

4.6.2.2.1 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 322*

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 222*
- ☐ T&T espagnolette – centred / variable handle height, backset 15 mm → *from page 222*
- ☐ T&T espagnolette – centred / variable handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 222*

Optional: determine the centre lock, standard [4]. → *from page 318*

Backset 8 mm

Application range SRH	Lever-operated espagnolette Plus			T&T espagnolette			
	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 267</i>	500	215 – 260	N	Special corner drive, short → <i>from page 267</i>
521 – 620		240 – 289	Corner drive, standard → <i>from page 266</i>		261 – 310	N	Corner drive, standard → <i>from page 266</i>
621 – 720	680	290 – 329	Special corner drive, short → <i>from page 267</i>	800	311 – 510	Y	Corner drive, standard → <i>from page 266</i>
721 – 800		330 – 379	Corner drive, standard → <i>from page 266</i>				
801 – 1200	980	380 – 579	Corner drive, standard → <i>from page 266</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1600	1380	580 – 779	Corner drive, standard → <i>from page 266</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 266</i>
1601 – 2000	1780	780 – 979	Corner drive, standard → <i>from page 266</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2400	2180	980 – 1179	Corner drive, standard → <i>from page 266</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 266</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

Application range SRH	Lever-operated espagnolette Plus			T&T espagnolette			
	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 450	400	194 – 204	Special corner drive, short → <i>from page 267</i>	430	215 – 225	N	Special corner drive, short → <i>from page 267</i>
451 – 520		205 – 239	Special corner drive, short → <i>from page 267</i>		226 – 260	N	Corner drive, standard → <i>from page 266</i>
521 – 620		240 – 289	Corner drive, standard → <i>from page 266</i>		261 – 310	N	Corner drive, standard → <i>from page 266</i>
621 – 700	680	290 – 329	Special corner drive, short → <i>from page 267</i>	580	311 – 400	Y	Corner drive, standard → <i>from page 266</i>
701 – 800		330 – 379	Corner drive, standard → <i>from page 266</i>				
801 – 1200	980	380 – 579	Corner drive, standard → <i>from page 266</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 266</i>
1201 – 1600	1380	580 – 779	Corner drive, standard → <i>from page 266</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 266</i>
1601 – 2000	1780	780 – 979	Corner drive, standard → <i>from page 266</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 266</i>
2001 – 2400	2180	980 – 1179	Corner drive, standard → <i>from page 266</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 266</i>

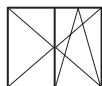


INFO

A centre lock is required from SRH 2401 mm.



4.6.2.2 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	1001 – 1400	1180	200 / 200	480 – 679	Y	N	1	Roto Sil	2007131	
35	1201 – 1600	1380	200 / 200	580 – 779	Y	N	2	Roto Sil	2007132	
40	1601 – 2000	1780	200 / 200	780 – 979	Y	Y	2	Roto Sil	2007133	
45	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.

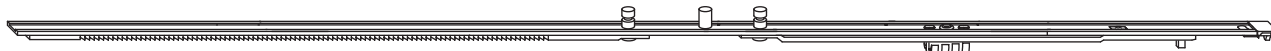


INFO

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 281*

4.6.3 Separate toggle lever

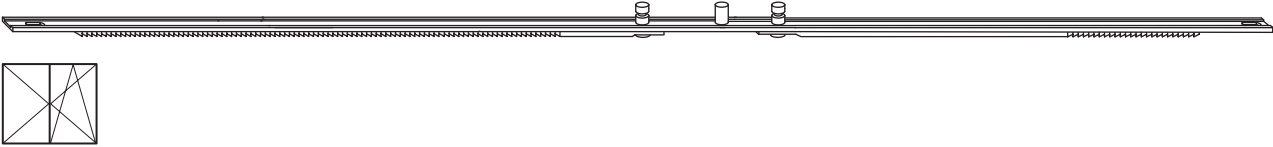
4.6.3.1 Fixed handle height



						Nº
8	431 – 710	600	200	233	Roto Sil	787399
	601 – 800	690	200	335	Roto Sil	338124
	801 – 1000	890	200	195	Roto Sil	291770
15	431 – 710	600	200	195	Roto Sil	788502
25	601 – 800	690	200	195	Roto Sil	338125
30	801 – 1000	890	200	490	Roto Sil	291746
35						
40						
45						
50						
8	1001 – 1200	1090	200	335	Roto Sil	291747
15	1201 – 1400	1290	200	335	Roto Sil	291748
25	1401 – 1600	1490	200	335	Roto Sil	291749
30	1601 – 1800	1690	200	335	Roto Sil	291750
35	1801 – 2000	1890	200	640	Roto Sil	291751
40	2001 – 2200	2090	200	640	Roto Sil	291762
45	2201 – 2400	2290	200	640	Roto Sil	291763

For the compatible separate toggle lever, see → *from page 260*.

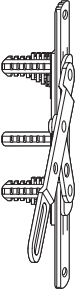
4.6.3.2 Centred / variable handle height



							Nº
8		370 – 620	400	100 / 100	225 – 350	Roto Sil	293629
15		621 – 800	680	100 / 100	393 – 482	Roto Sil	293631
25		801 – 1200	980	200 / 200	482 – 682	Roto Sil	293633
30		1201 – 1600	1380	200 / 200	448 – 658	Roto Sil	293635
35		1601 – 2000	1780	200 / 200	680 – 890	Roto Sil	293636
40		2001 – 2400	2180	200 / 200	880 – 1090	Roto Sil	293637

For the compatible separate toggle lever, see → from page 260.

4.6.3.3 Separate toggle lever



		Nº
Separate toggle lever	Roto Sil	291743



INFO

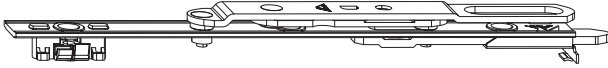
Is necessary for each floating-mullion sash espagnolette with separate toggle lever.



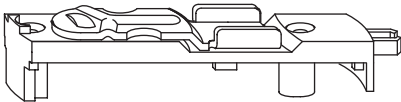
4.7 Shootbolt

4.7.1 Opposite hardware groove

4.7.1.1 Standard

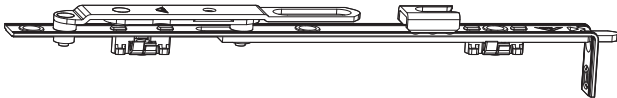


		Nº
200	Roto Sil	633419
390	Roto Sil	618666



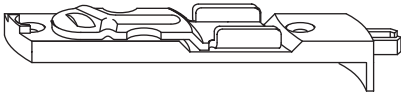
		Nº
97	Roto Sil	305638

4.7.1.2 VT

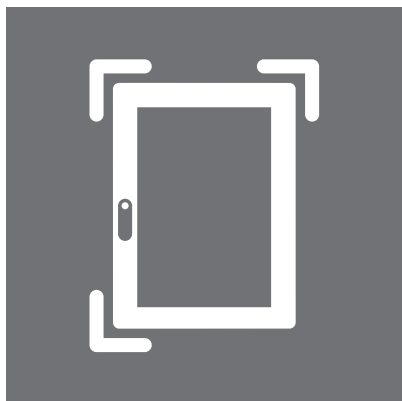


		Nº
265	Roto Sil	628710

4.7.2 Euro-rebate



				Nº
97	18	12	Roto Sil	260189





Standard

See page	266
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Short

See page	267
----------	-----

Floating mullion

Standard	268
----------	-----

Threshold	268
-----------	-----

Threshold

See page	269
----------	-----

Sash stay

See page	270
----------	-----

Special solutions

Arched window	271
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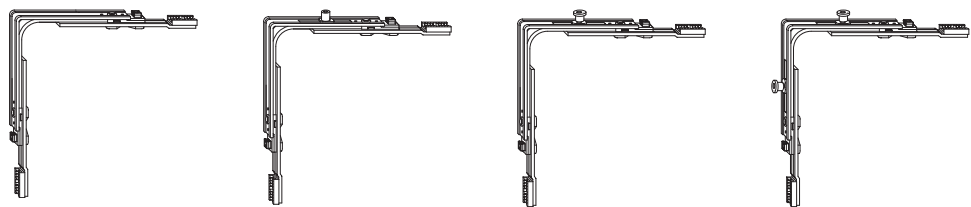
Pitched window	271
----------------	-----

Night vent	272
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Striker and protrusion	272
------------------------	-----

5 Corner drives

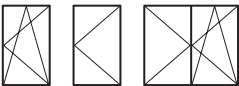
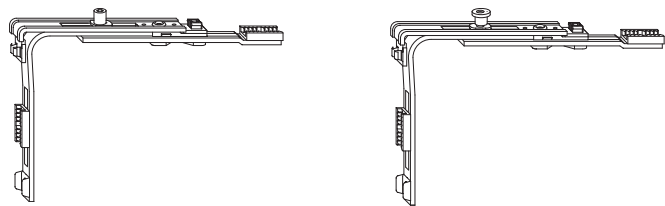
5.1 Standard



						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

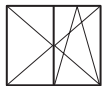
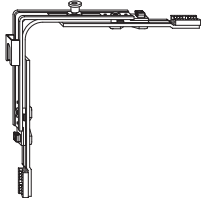


						Nº
Special short corner drive	110 / 10	1	E	Top	Roto Sil	260280
		1	P	Top Bottom	Roto Sil	260282
		1	V	Top Bottom	Roto Sil	281288



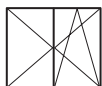
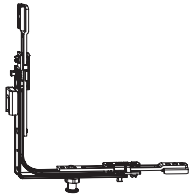
5.3 Floating mullion

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

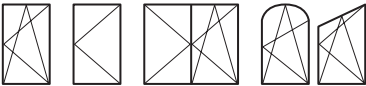
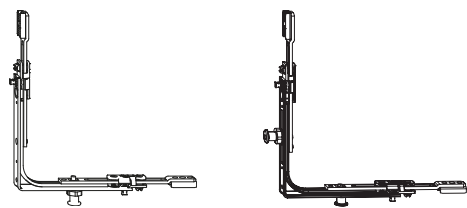
5.3.2 Threshold



									
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



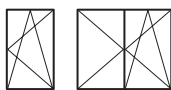
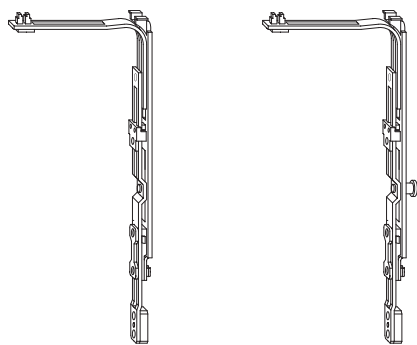
INFO
 Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



IMO 347

5.5 Sash stay

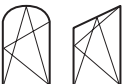
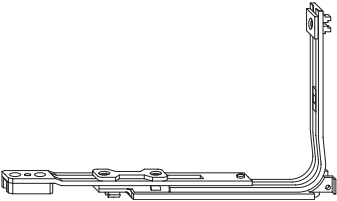


					Nº
Sash stay corner drive	180 / 0	–	–	Roto Sil	293521
		1	P	Roto Sil	260286
		1	V	Roto Sil	260284



5.6 Special solutions

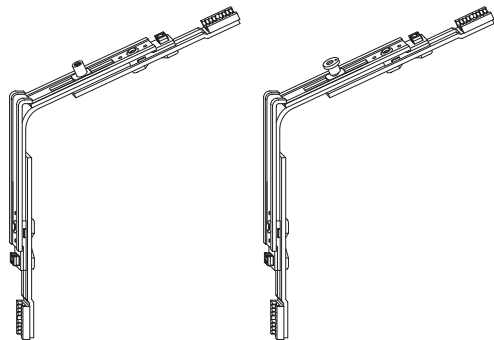
5.6.1 Arched window



				Nº
Corner drive for arched windows	110 / 0	Standard	Roto Sil	255273

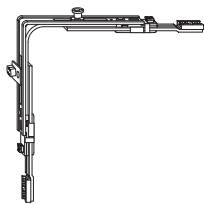


5.6.2 Pitched window



					Nº
Corner drive for pitched windows	110 / 110	1	E	Roto Sil	260279
		1	V	Roto Sil	260278

5.6.3 Night vent



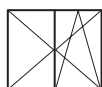
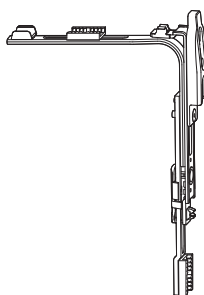
									Nº
Night vent corner drive		110 / 110	9	20	1	P	Left	Roto Sil	389819
					1	P	Right	Roto Sil	389818
			13	30	1	P	Left	Roto Sil	389817
					1	P	Right	Roto Sil	389816



INFO

Components cannot be used in conjunction with hinge side P and hinge side T.

5.6.4 Striker and protrusion



						Nº
Corner drive with striker and bolt extension		110 / 10	–	1	Roto Sil	484686





Frame clearances

Frame clearance	278
Hinge side Designo (HA 13)	280

Stay guide

Hinge side P	281
Hinge side Designo (HA 13)	282

Stay arm

Hinge side P	285
Hinge side Designo (HA 13)	290

Forcibly controlled scissor stay

Hinge side P	298
--------------	-----

Rebate stay guide

Hinge side P	299
Hinge side Designo (HA 13)	299

Rebate stay arm

Hinge side P	300
Hinge side Designo (HA 13)	301

Turn-Only/Tilt-Only rebate hinge

Hinge side P	304
--------------	-----

Turn-Only/Tilt-Only overlap hinge

Hinge side P	305
--------------	-----

Stay bearing

Hinge side P	306
Stay-bearing pins	308

Cover caps

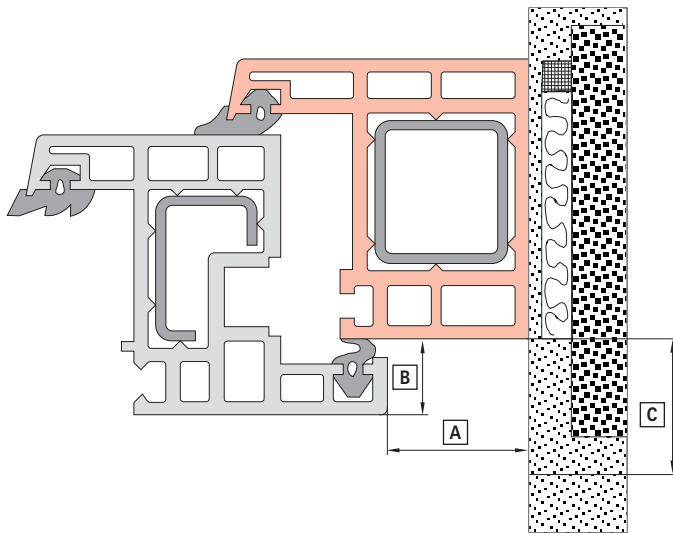
Hinge side P	309
--------------	-----

6 Sash stay

6.1 Frame clearances

6.1.1 Frame clearance

Frame clearances with a 20 mm overlap width.



Sash weight	Opening angle	Frame clearance [A]	Overlap height [B]	Free area [C]
130 kg	Approx. 180° [3]	≥ 21.0 mm	≥ 16 mm	100 mm
150 kg	Approx. 150° [4]	≥ 26.5 mm	≥ 16 mm	100 mm



INFO

Clearances including cover caps.

Opening angle up to 20 mm overlap height.



DANGER

Risk of death caused by damage to bearing components!

Large overlap heights [B] or components near the reveal (such as skirting boards) may result in excessive leverage on the hinge side. This can damage the bearing components and cause the sash to fall.

- ▶ In the free area [C], the sash must not come into contact with the reveal or components near the reveal.
- ▶ With a reveal depth of < 100 mm, check whether a turn restrictor is required.



ATTENTION

Property damage caused by damage to bearing components!

Large overlap heights [B] or components near the reveal (such as skirting boards) may result in excessive leverage on the hinge side. This can damage the bearing components and cause the sash to fall.

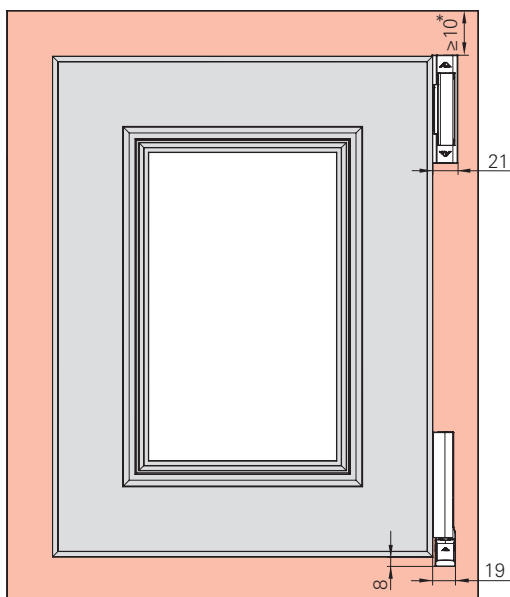
- ▶ In the free area [C], the sash must not come into contact with the reveal or components near the reveal.
- ▶ With a reveal depth of < 100 mm, check whether a turn restrictor is required.

[3] The opening angle may be less than 180° depending on the reveal.

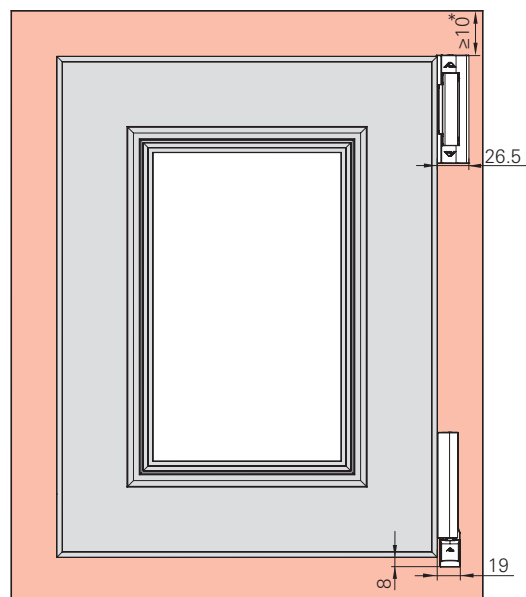
[4] The opening angle may be less than 150° depending on the reveal.



Sash weight 130 kg



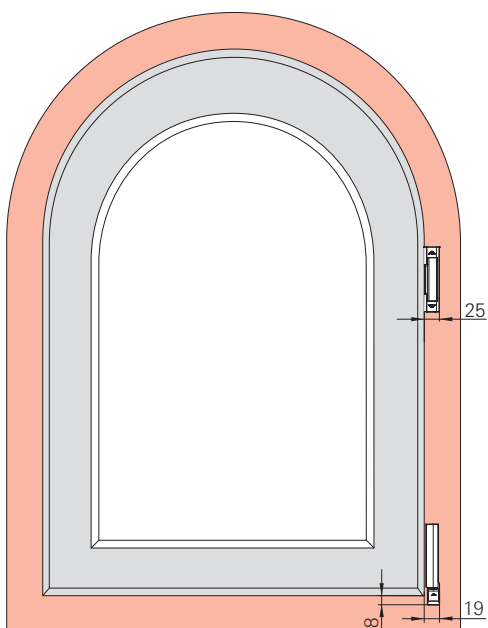
Sash weight 150 kg



* For dismantling the stay-bearing pin, leave at least 10 mm clearance from the reveal.

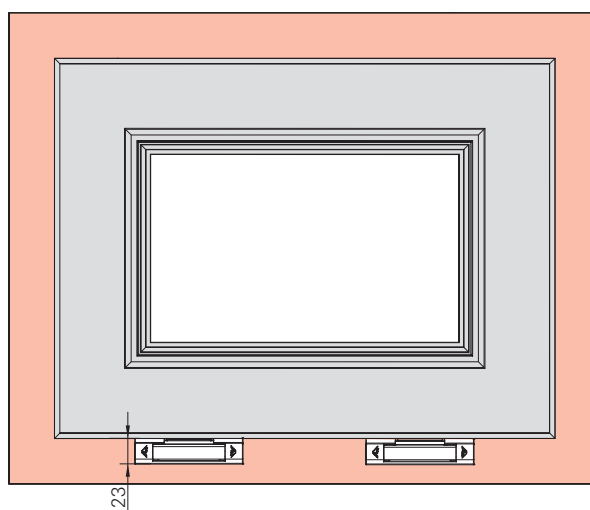
Arch

Sash weight 80 kg

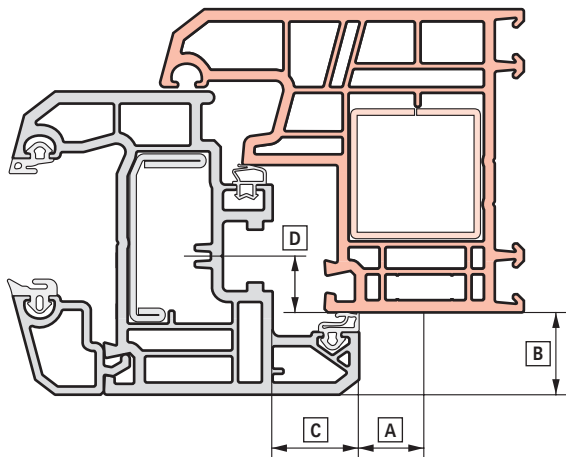


Tilt-Only hardware

Sash weight 80 kg



6.1.2 Hinge side Designo (HA 13)



Frame clearances (in mm) at a 90° opening angle.

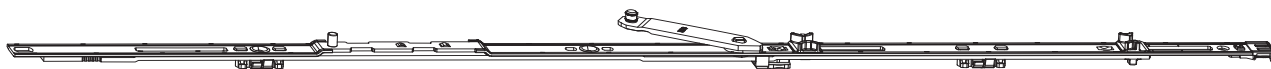
	Opening angle	Frame clearance [A]	Overlap height [B]	Overlap width [C]	Hardware axis [D]
Hinge side Designo (HA 13)	90°	5.2	16	18	13
	90°	7.6	20	18	13
	90°	10.6	24	18	13
	90°	4.9	16	20	13
	90°	7.2	20	20	13
	90°	9.9	24	20	13
	90°	4.7	16	22	13
	90°	6.8	20	22	13
	90°	9.3	24	22	13



6.2 Stay guide

6.2.1 Hinge side P

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

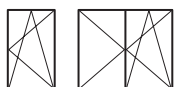
Additional stay arm required from SRW 1400 mm.

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



Y	Y	801 – 1000	890	200	350	1	V	Roto Sil	Nº 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



								
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

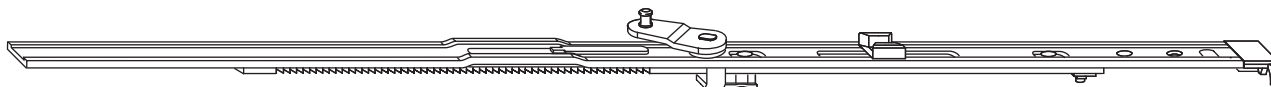


INFO

Espagnolette extension required from SRW 1001 mm.

6.2.2 Hinge side Designo (HA 13)

6.2.2.1 Basic security



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

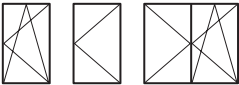


								Nº
1001 – 1200	1090	200	500	1	E	–	Roto Sil	385416



INFO
Additional stay arm required from SRW 1201 mm.

6.2.2.2 Security



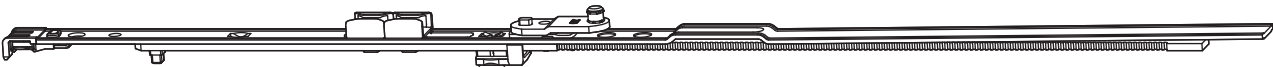
							Nº
801 – 1000	890	200	500	1	V	Roto Sil	450373
1001 – 1200	1090	200	500	1	V	Roto Sil	450374



INFO
Additional stay arm required from SRW 1201 mm.



6.2.2.3 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 36 mm	Roto Sil	491796



INFO
With espagnolette extension between SRW 711 and 1400 mm.



Lever-operated espagnolette – Plus



								Nº
Security	601 – 800	690	200	250	–	–	Roto Sil	2003336



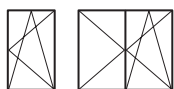
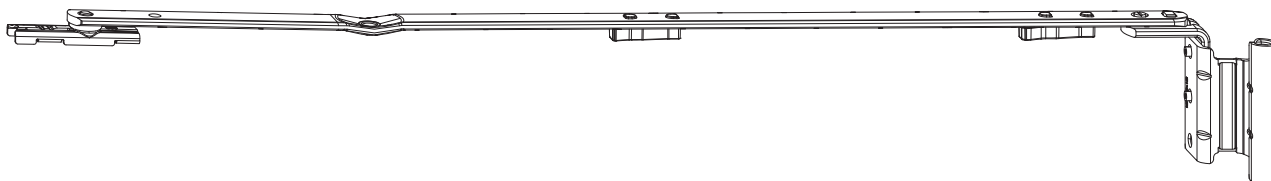
INFO
With espagnolette extension between SRW 801 and 1400 mm.



6.3 Stay arm

6.3.1 Hinge side P

6.3.1.1 Standard



						Nº
12/18-9	290 – 410	150	Y	Roto Sil	Left	787217
			Y	Roto Sil	Right	787218
			Y	White	Left	788440
			Y	White	Right	788441
	411 – 600	250	Y	Roto Sil	Left	787219
			Y	Roto Sil	Right	787220
			Y	White	Left	788442
			Y	White	Right	788443
	601 – 800	350	Y	Roto Sil	Left	787221
			Y	Roto Sil	Right	787222
			Y	White	Left	788444
			Y	White	Right	788445
	801 – 1400	500	Y	Roto Sil	Left	787223
			Y	Roto Sil	Right	787224
			Y	White	Left	788446
			Y	White	Right	788447
12/20-9	290 – 410	150	Y	Roto Sil	Left	787225
			Y	Roto Sil	Right	787226
			Y	White	Left	788448
			Y	White	Right	788449
	411 – 600	250	Y	Roto Sil	Left	787227
			Y	Roto Sil	Right	787228
			Y	White	Left	788450
			Y	White	Right	788451
	601 – 800	350	Y	Roto Sil	Left	787229
			Y	Roto Sil	Right	787230
			Y	White	Left	788452
			Y	White	Right	788453
	801 – 1400	500	Y	Roto Sil	Left	787231
			Y	Roto Sil	Right	787232
			Y	White	Left	788454
			Y	White	Right	788455

						Nº
12/20-13	290 – 410	150	Y	Roto Sil	Left	787233
			Y	Roto Sil	Right	787234
			Y	White	Left	788456
			Y	White	Right	788457
			Y	Titanium	Left	795092
			Y	Titanium	Right	795093
	411 – 600	250	Y	Roto Sil	Left	787235
			Y	Roto Sil	Right	787236
			Y	White	Left	788458
			Y	White	Right	788459
			Y	Titanium	Left	795094
			Y	Titanium	Right	795095
	601 – 800	350	Y	Roto Sil	Left	787237
			Y	Roto Sil	Right	787238
			Y	White	Left	788460
			Y	White	Right	788461
			Y	Titanium	Left	795096
			Y	Titanium	Right	795097
	801 – 1400	500	Y	Roto Sil	Left	787239
			Y	Roto Sil	Right	787240
			Y	White	Left	788462
			Y	White	Right	788463
			Y	Titanium	Left	795098
			Y	Titanium	Right	795099
12/21-13	290 – 410	150	Y	Roto Sil	Left	795132
			Y	Roto Sil	Right	795133
			Y	White	Left	817199
			Y	White	Right	817200
	411 – 600	250	Y	Roto Sil	Left	795134
			Y	Roto Sil	Right	795135
			Y	White	Left	817201
			Y	White	Right	817202
	601 – 800	350	Y	Roto Sil	Left	795136
			Y	Roto Sil	Right	795137
			Y	White	Left	817203
			Y	White	Right	817204
	801 – 1400	500	Y	Roto Sil	Left	795138
			Y	Roto Sil	Right	795139
			Y	White	Left	817205
			Y	White	Right	817206
12/22-13	290 – 410	150	Y	Roto Sil	Left	787241
			Y	Roto Sil	Right	787242
			Y	White	Left	788464
			Y	White	Right	788465
	411 – 600	250	Y	Roto Sil	Left	787243
			Y	Roto Sil	Right	787244
			Y	White	Left	788466
			Y	White	Right	788467
	601 – 800	350	Y	Roto Sil	Left	787245
			Y	Roto Sil	Right	787246
			Y	White	Left	788468
			Y	White	Right	788469
	801 – 1400	500	Y	Roto Sil	Left	787247
			Y	Roto Sil	Right	787248
			Y	White	Left	788470
			Y	White	Right	788471



For compatible stay bearings, see → *from page 306* → *from page 306*.

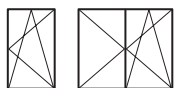
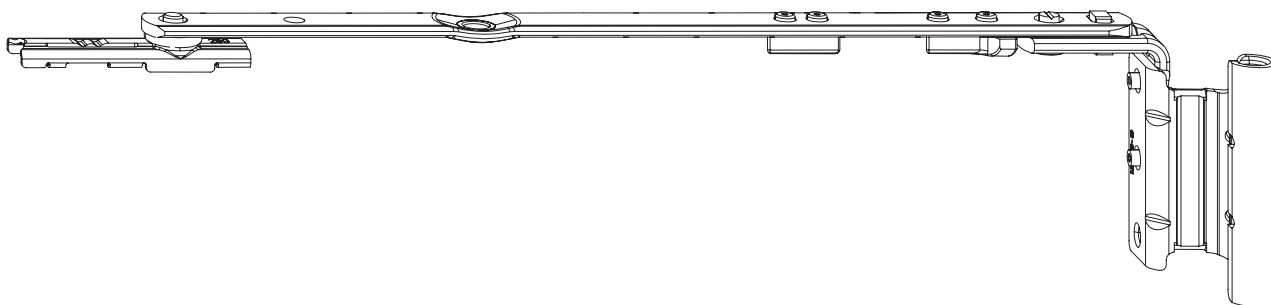
For compatible cover caps, see → *from page 311*.



INFO

With SRH < 500 mm, set the tilt depth to 80 mm (with sash stay from size 250 and above).

6.3.1.2 TiltFirst (TF)



						Nº
12/18-9	290 – 410	150	N	Roto Sil	Left	814684
			N	Roto Sil	Right	814695
	411 – 600	250	N	Roto Sil	Left	814696
			N	Roto Sil	Right	814697
	601 – 800	350	N	Roto Sil	Left	814698
			N	Roto Sil	Right	814699
12/20-9	290 – 410	150	N	Roto Sil	Left	814700
			N	Roto Sil	Right	814701
	411 – 600	250	N	Roto Sil	Left	814703
			N	Roto Sil	Left	814704
	601 – 800	350	N	Roto Sil	Left	814705
			N	Roto Sil	Right	814706
12/20-13	290 – 410	150	N	Roto Sil	Left	814707
			N	Roto Sil	Right	814708
			N	White	Left	814709
			N	White	Right	814710
	411 – 600	250	N	Roto Sil	Left	814711
			N	Roto Sil	Right	814712
			N	White	Left	814727
			N	White	Right	814728
	601 – 800	350	N	Roto Sil	Left	814713
			N	Roto Sil	Right	814714
			N	White	Left	814715
			N	White	Right	814716
12/20-13	290 – 410	150	N	Roto Sil	Left	814717
			N	Roto Sil	Right	814718
			N	White	Left	814719
			N	White	Right	814720
	411 – 600	250	N	Roto Sil	Left	814721
			N	Roto Sil	Right	814722
			N	White	Left	814723
			N	White	Right	814724

						Nº
12/21-13	290 – 410	150	N	Roto Sil	Left	895923
			N	Roto Sil	Right	895924
	411 – 600	250	N	Roto Sil	Left	895925
			N	Roto Sil	Right	895926
	601 – 800	350	N	Roto Sil	Left	895927
			N	Roto Sil	Right	895928
	801 – 1400	500	N	Roto Sil	Left	895929
			N	Roto Sil	Right	895930
12/22-13	290 – 410	150	N	Roto Sil	Left	814719
			N	Roto Sil	Right	814720
	411 – 600	250	N	Roto Sil	Left	814721
			N	Roto Sil	Right	814722
	601 – 800	350	N	Roto Sil	Left	814723
			N	Roto Sil	Right	814724
	801 – 1400	500	N	Roto Sil	Left	814725
			N	Roto Sil	Right	814726

For compatible stay bearings, see → *from page 306* → *from page 306*.

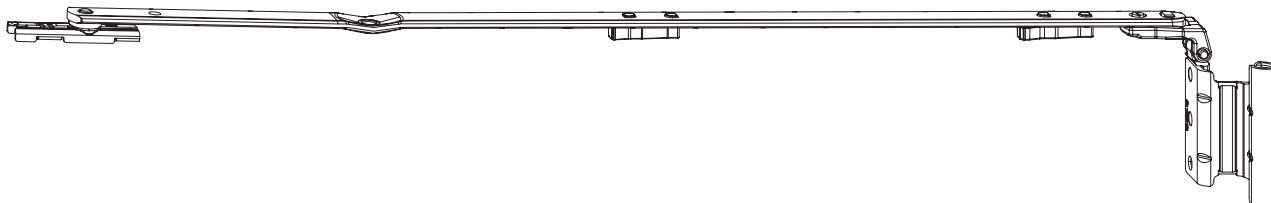
For compatible cover caps, see → *from page 311*.



INFO

With SRH < 500 mm, set the tilt depth to 80 mm (with sash stay from size 250 and above).

6.3.1.3 Pitched window (SF)



						Nº
12/18-9	290 – 410	150	Y	Roto Sil	Left	795148
			Y	Roto Sil	Right	795149
	411 – 600	250	Y	Roto Sil	Left	795150
			Y	Roto Sil	Right	795151
	601 – 800	350	Y	Roto Sil	Left	795152
			Y	Roto Sil	Right	795153
	801 – 1400	500	Y	Roto Sil	Left	795154
			Y	Roto Sil	Right	795155
12/20-9	290 – 410	150	Y	Roto Sil	Left	795156
			Y	Roto Sil	Right	795157
	411 – 600	250	Y	Roto Sil	Left	795158
			Y	Roto Sil	Right	795159
	601 – 800	350	Y	Roto Sil	Left	795160
			Y	Roto Sil	Right	795161
	801 – 1400	500	Y	Roto Sil	Left	795162
			Y	Roto Sil	Right	795163



						Nº
12/20-13	290 – 410	150	Y	Roto Sil	Left	795164
			Y	Roto Sil	Right	795165
			Y	White	Left	795180
			Y	White	Right	795181
	411 – 600	250	Y	Roto Sil	Left	795166
			Y	Roto Sil	Right	795167
			Y	White	Left	795182
			Y	White	Right	795183
	601 – 800	350	Y	Roto Sil	Left	795168
			Y	Roto Sil	Right	795169
			Y	White	Left	795184
			Y	White	Right	795185
	801 – 1400	500	Y	Roto Sil	Left	795170
			Y	Roto Sil	Right	795171
			Y	White	Left	795186
			Y	White	Right	795187
12/22-13	290 – 410	150	Y	Roto Sil	Left	795188
			Y	Roto Sil	Right	795189
	411 – 600	250	Y	Roto Sil	Left	795190
			Y	Roto Sil	Right	795191
	601 – 800	350	Y	Roto Sil	Left	795192
			Y	Roto Sil	Right	795193
	801 – 1400	500	Y	Roto Sil	Left	795194
			Y	Roto Sil	Right	795195



For compatible stay bearings, see → *from page 306* → *from page 306*.

For compatible cover caps, see → *from page 311*.

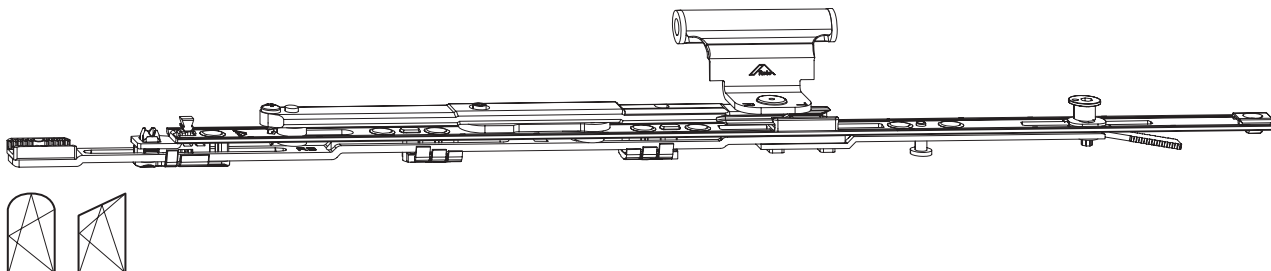
For the end piece, see → *from page 424*.



INFO

With SRH < 500 mm, set the tilt depth to 80 mm (with sash stay from size 250 and above).

6.3.1.4 Arched window



					Nº
12/18-9	1	V	Roto Sil	–	896116
12/20-9	1	V	Roto Sil	–	896117
12/20-13	1	V	Roto Sil	–	896118
	1	V	White	–	896120
	1	V	Titanium	–	2007009
12/22-13	1	V	Roto Sil	–	896119

For compatible stay bearings, see → from page 308 → from page 306.

For compatible cover caps, see → from page 311.



INFO

Arched window set consisting of one stay arm for arched window, one retainer and one rebate run-up block.

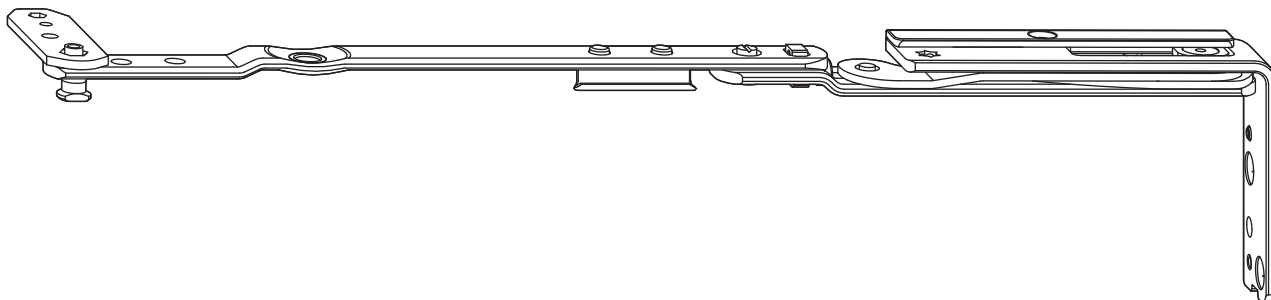


INFO

For systems 12/18-9, 12/20-9 and 12/22-13, it may be necessary to trim the sash gasket in the area of the stay hinge, depending on the profile system.

6.3.2 Hinge side Designo (HA 13)

6.3.2.1 Standard – stay arm 250



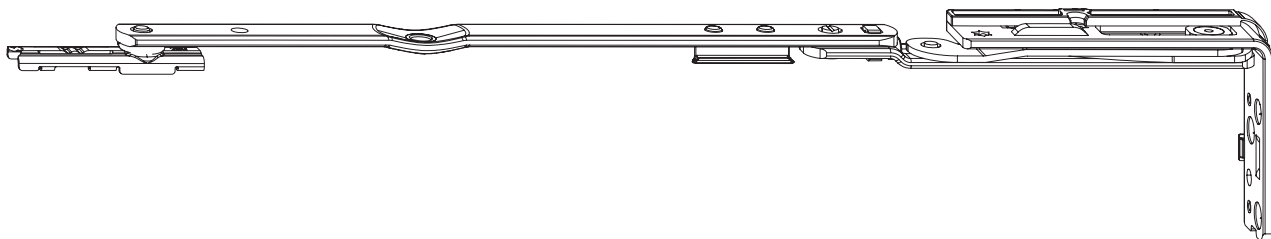
				Nº
Aluplast Ideal 2000	250	Roto Sil	Left	623968
	250	Roto Sil	Right	623967



				Nº
Aluplast Ideal 4000	250	Roto Sil	Left	628938
Aluplast Ideal 5000	250	Roto Sil	Right	628937
Aluplast Ideal 8000				
Schüco Corona MD				
Aluplast energeto 5000 view				
Aluplast energeto 7000				
Aluplast Ideal 7000				
Brüggmann AD 13	250	Roto Sil	Left	635229
Brüggmann MD 13				
Veka Alphaline 90				
Veka Softline 70 AD				
Veka Softline 70 MD				
Veka Softline 82 MD				
Veka Topline AD 13				
Veka Topline MD 13				
Salamander BluEvolution 73				
Salamander BluEvolution 82				
Salamander GreenEvolution 76				
Veka Softline 76 AD				
Veka Softline 76 MD				
Brüggmann AD 13	250	Roto Sil	Right	635228
Brüggmann MD 13				
Veka Alphaline 90				
Veka Softline 70 AD				
Veka Softline 70 MD				
Veka Softline 82 MD				
Veka Topline AD 13				
Veka Topline MD 13				
Brüggmann AD 73				
Salamander BluEvolution 82				
Salamander GreenEvolution 76				
Veka Softline 76 AD				
Veka Softline 76 MD				
Deceuninck Eforte	250	Roto Sil	Left	635396
Deceuninck Prestige	250	Roto Sil	Right	635395
Inoutic AD 13				
Inoutic MD 100				
Deceuninck Elegant	250	Roto Sil	Left	812024
Deceuninck Legend	250	Roto Sil	Right	812023
KBE 76				
KBE 88 MD				
Kömmerling 76				
Kömmerling 88 MD				
Trocal 76				
Trocal 88 MD				
Deceuninck Zendow	250	Roto Sil	Left	623948
KBE 70 AD	250	Roto Sil	Right	623947
Gealan Kubus	250	Roto Sil	Left	807532
	250	Roto Sil	Right	807531
Gealan S3000	250	Roto Sil	Left	606334
Gealan S7000	250	Roto Sil	Right	606326
Gealan S8000				
Kömmerling 88 Plus	250	Roto Sil	Left	606347
Kömmerling Eurodur 3S	250	Roto Sil	Right	606346
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Rehau S 735 MD	250	Roto Sil	Left	610950
Rehau S 788	250	Roto Sil	Right	610949
Rehau S 799 Brillant Design (S 730)				
Rehau S 980 Geneo	250	Roto Sil	Left	606364
	250	Roto Sil	Right	606363
Salamander 2D	250	Roto Sil	Left	635510
Salamander 3D	250	Roto Sil	Right	635509
Salamander Streamline 76				
Salamander BluEvolution 92	250	Roto Sil	Left	635620
	250	Roto Sil	Right	635619
Schüco Corona CT70 AD	250	Roto Sil	Left	764817
Schüco Corona CT70 MD	250	Roto Sil	Right	764816
Schüco Corona SI82 MD				



6.3.2.2 Standard – stay arm 350

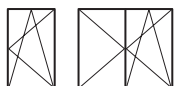
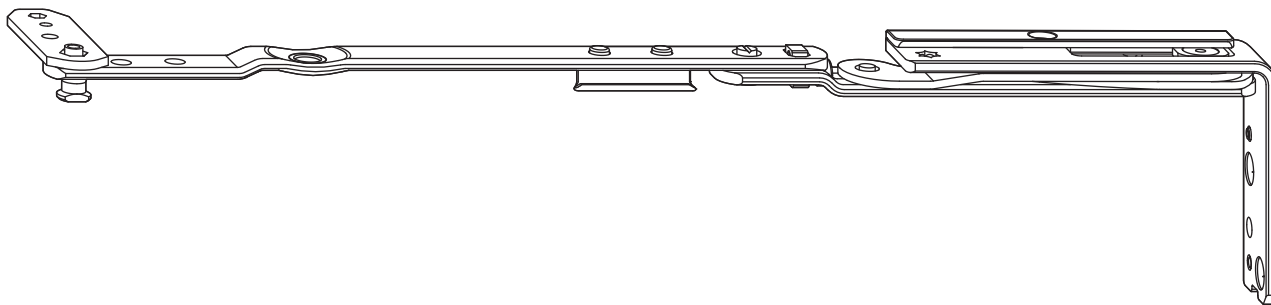


				Nº
Aluplast Ideal 2000	350	Roto Sil	Left	623970
	350	Roto Sil	Right	623969
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Schüco Corona MD Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000	350	Roto Sil	Left	628941
	350	Roto Sil	Right	628939
Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	350	Roto Sil	Left	635231
	350	Roto Sil	Right	635230
Deceuninck Eforte Deceuninck Prestige Inoutic AD 13 Inoutic MD 100	350	Roto Sil	Left	635398
	350	Roto Sil	Right	635397
Deceuninck Elegant Deceuninck Legend KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Trocal 76 Trocal 88 MD	350	Roto Sil	Left	812066
	350	Roto Sil	Right	812065
Deceuninck Zendow KBE 70 AD	350	Roto Sil	Left	623950
	350	Roto Sil	Right	623949
Gealan Kubus	350	Roto Sil	Left	807534
	350	Roto Sil	Right	807533
Gealan S3000 Gealan S7000 Gealan S8000	350	Roto Sil	Left	606336
	350	Roto Sil	Right	606335
Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	350	Roto Sil	Left	606349
	350	Roto Sil	Right	606348
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730)	350	Roto Sil	Left	610952
	350	Roto Sil	Right	610951
Rehau S 980 Geneo	350	Roto Sil	Left	606366
	350	Roto Sil	Right	606365
Salamander 2D Salamander 3D Salamander Streamline 76	350	Roto Sil	Left	635512
	350	Roto Sil	Right	635511



				Nº
Salamander BluEvolution 92	350	Roto Sil	Left	635622
	350	Roto Sil	Right	635621
Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD	350	Roto Sil	Left	764819
	350	Roto Sil	Right	764818

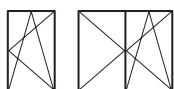
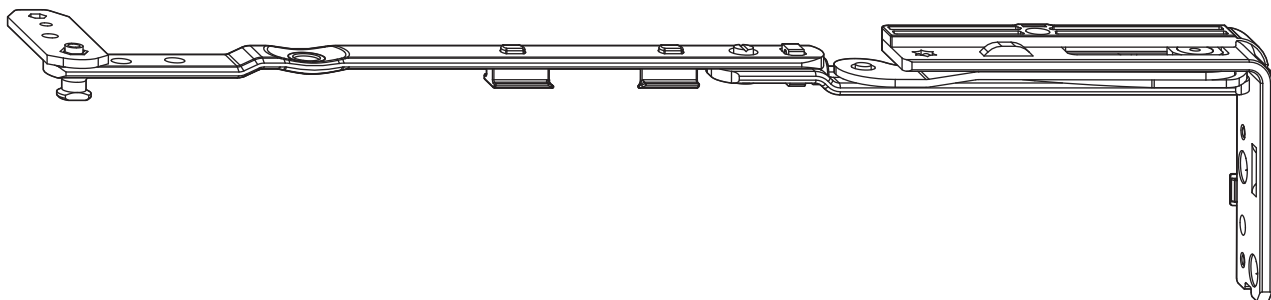
6.3.2.3 Standard – stay arm 500



				Nº
Aluplast Ideal 2000	500	Roto Sil	Left	623972
	500	Roto Sil	Right	623971
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Schüco Corona MD Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000	500	Roto Sil	Left	628948
	500	Roto Sil	Right	628947
Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	500	Roto Sil	Left	635233
	500	Roto Sil	Right	635232
Deceuninck Eforte Deceuninck Prestige Inoutic AD 13 Inoutic MD 100	500	Roto Sil	Left	635400
	500	Roto Sil	Right	635399
Deceuninck Elegant Deceuninck Legend KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Trocal 76 Trocal 88 MD	500	Roto Sil	Left	812068
	500	Roto Sil	Right	812067
Deceuninck Zendow KBE 70 AD	500	Roto Sil	Left	623952
	500	Roto Sil	Right	623951
Galan Kubus	500	Roto Sil	Left	807536
	500	Roto Sil	Right	807535

				Nº
Gealan S3000	500	Roto Sil	Left	606339
Gealan S7000	500	Roto Sil	Right	606338
Gealan S8000				
Kömmerling 88 Plus	500	Roto Sil	Left	606353
Kömmerling Eurodur 3S	500	Roto Sil	Right	606352
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Rehau S 735 MD	500	Roto Sil	Left	610954
Rehau S 788	500	Roto Sil	Right	610953
Rehau S 799 Brillant Design (S 730)				
Rehau S 980 Geneo	500	Roto Sil	Left	606369
	500	Roto Sil	Right	606367
Salamander 2D	500	Roto Sil	Left	635514
Salamander 3D				
Salamander Streamline 76	500	Roto Sil	Right	635513
Salamander BluEvolution 92	500	Roto Sil	Left	635624
	500	Roto Sil	Right	635623
Schüco Corona CT70 AD	500	Roto Sil	Left	764821
Schüco Corona CT70 MD	500	Roto Sil	Right	764820
Schüco Corona SI82 MD				

6.3.2.4 TiltFirst (TF) – stay arm 250



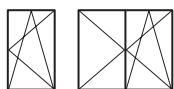
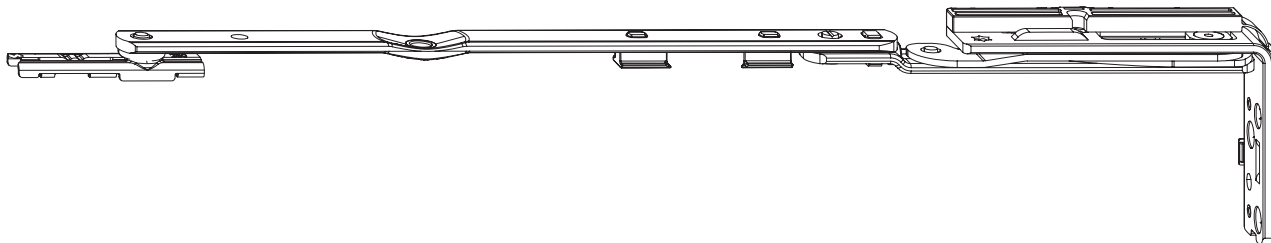
				Nº
Aluplast Ideal 2000	250	Roto Sil	Left	643271
	250	Roto Sil	Right	643270
Aluplast Ideal 4000	250	Roto Sil	Left	643247
Aluplast Ideal 5000	250	Roto Sil	Right	643246
Aluplast Ideal 8000				
Schüco Corona MD				
Aluplast energeto 5000 view				
Aluplast energeto 7000				
Aluplast Ideal 7000				
Brüggmann AD 13	250	Roto Sil	Left	643277
Brüggmann MD 13	250	Roto Sil	Right	643276
Veka Alphaline 90				
Veka Softline 70 AD				
Veka Softline 70 MD				
Veka Softline 82 MD				
Veka Topline AD 13				
Veka Topline MD 13				
Salamander BluEvolution 73				
Salamander BluEvolution 82				
Salamander GreenEvolution 76				
Deceuninck Eforte	250	Roto Sil	Left	643259
Deceuninck Prestige	250	Roto Sil	Right	643258
Inoutic AD 13				
Inoutic MD 100				



				Nº
Deceuninck Elegant	250	Roto Sil	Left	757738
Deceuninck Legend	250	Roto Sil	Right	757737
KBE 76				
KBE 88 MD				
Kömmerling 76				
Kömmerling 88 MD				
Trocal 76				
Trocal 88 MD				
Deceuninck Zendow	250	Roto Sil	Left	643253
KBE 70 AD	250	Roto Sil	Right	643252
Gealan S3000	250	Roto Sil	Left	638965
Gealan S7000	250	Roto Sil	Right	638944
Gealan S8000				
Kömmerling 88 Plus	250	Roto Sil	Left	643265
Kömmerling Eurodur 3S	250	Roto Sil	Right	643264
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Rehau S 735 MD	250	Roto Sil	Left	640572
Rehau S 788	250	Roto Sil	Right	640573
Rehau S 799 Brillant Design (S 730)				
Rehau S 980 Geneo	250	Roto Sil	Left	640566
	250	Roto Sil	Right	640567
Schüco Corona CT70 AD	250	Roto Sil	Left	764825
Schüco Corona CT70 MD	250	Roto Sil	Right	764824
Schüco Corona SI82 MD				
Veka Softline 70 MD	250	Roto Sil	Left	636481
	250	Roto Sil	Right	636480



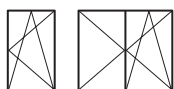
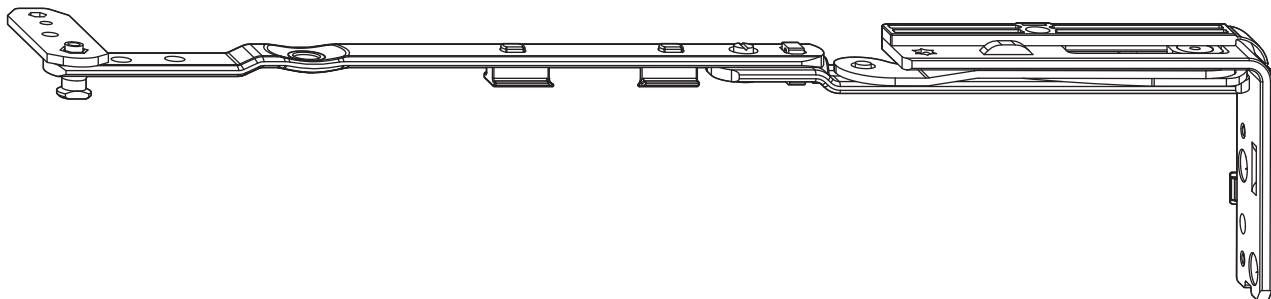
6.3.2.5 TiltFirst (TF) – stay arm 350



				Nº
Aluplast Ideal 2000	350	Roto Sil	Left	643273
	350	Roto Sil	Right	643272
Aluplast Ideal 4000	350	Roto Sil	Left	643249
Aluplast Ideal 5000	350	Roto Sil	Right	643248
Aluplast Ideal 8000				
Schüco Corona MD				
Aluplast energeto 5000 view				
Aluplast energeto 7000				
Aluplast Ideal 7000				
Brüggmann AD 13	350	Roto Sil	Left	643279
Brüggmann MD 13	350	Roto Sil	Right	643278
Veka Alphaline 90				
Veka Softline 70 AD				
Veka Softline 70 MD				
Veka Softline 82 MD				
Veka Topline AD 13				
Veka Topline MD 13				
Salamander BluEvolution 73				
Salamander BluEvolution 82				
Salamander GreenEvolution 76				

				Nº
Deceuninck Eforte	350	Roto Sil	Left	643261
Deceuninck Prestige	350	Roto Sil	Right	643260
Inoutic AD 13				
Inoutic MD 100				
Deceuninck Elegant	350	Roto Sil	Left	757740
Deceuninck Legend	350	Roto Sil	Right	757739
KBE 76				
KBE 88 MD				
Kömmerling 76				
Kömmerling 88 MD				
Trocal 76				
Trocal 88 MD				
Deceuninck Zendow	350	Roto Sil	Left	643255
KBE 70 AD	350	Roto Sil	Right	643254
Gealan S3000	350	Roto Sil	Left	638967
Gealan S7000	350	Roto Sil	Right	638966
Gealan S8000				
Kömmerling 88 Plus	350	Roto Sil	Left	643267
Kömmerling Eurodur 3S	350	Roto Sil	Right	643266
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Rehau S 735 MD	350	Roto Sil	Left	640574
Rehau S 788	350	Roto Sil	Right	640575
Rehau S 799 Brillant Design (S 730)				
Rehau S 980 Geneo	350	Roto Sil	Left	640568
	350	Roto Sil	Right	640569
Schüco Corona CT70 AD	350	Roto Sil	Left	764827
Schüco Corona CT70 MD	350	Roto Sil	Right	764826
Schüco Corona SI82 MD				
Veka Softline 70 MD	350	Roto Sil	Left	636484
	350	Roto Sil	Right	636483

6.3.2.6 TiltFirst (TF) – stay arm 500



				Nº
Aluplast Ideal 2000	500	Roto Sil	Left	643275
	500	Roto Sil	Right	643274
Aluplast Ideal 4000	500	Roto Sil	Left	643251
Aluplast Ideal 5000	500	Roto Sil	Right	643250
Aluplast Ideal 8000				
Schüco Corona MD				
Aluplast energeto 5000 view				
Aluplast energeto 7000				
Aluplast Ideal 7000				



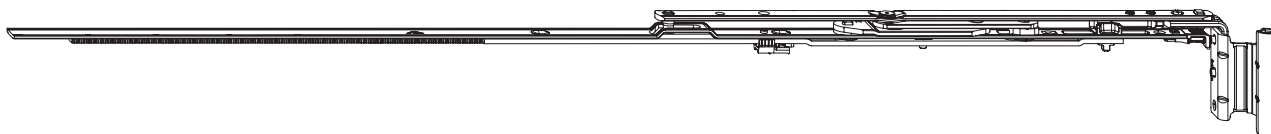
				Nº
Brüggmann AD 13	500	Roto Sil	Left	643281
Brüggmann MD 13	500	Roto Sil	Right	643280
Veka Alphaline 90				
Veka Softline 70 AD				
Veka Softline 70 MD				
Veka Softline 82 MD				
Veka Topline AD 13				
Veka Topline MD 13				
Salamander BluEvolution 73				
Salamander BluEvolution 82				
Salamander GreenEvolution 76				
Deceuninck Eforte	500	Roto Sil	Left	643263
Deceuninck Prestige	500	Roto Sil	Right	643262
Inoutic AD 13				
Inoutic MD 100				
Deceuninck Elegant	500	Roto Sil	Left	757742
Deceuninck Legend	500	Roto Sil	Right	757741
KBE 76				
KBE 88 MD				
Kömmerling 76				
Kömmerling 88 MD				
Trocal 76				
Trocal 88 MD				
Deceuninck Zendow	500	Roto Sil	Left	643257
KBE 70 AD	500	Roto Sil	Right	643256
Gealan S3000	500	Roto Sil	Left	638969
Gealan S7000	500	Roto Sil	Right	638968
Gealan S8000				
Kömmerling 88 Plus	500	Roto Sil	Left	643269
Kömmerling Eurodur 3S	500	Roto Sil	Right	643268
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Rehau S 735 MD	500	Roto Sil	Left	640576
Rehau S 788	500	Roto Sil	Right	640577
Rehau S 799 Brillant Design (S 730)				
Rehau S 980 Geneo	500	Roto Sil	Left	640570
	500	Roto Sil	Right	640571
Schüco Corona CT70 AD	500	Roto Sil	Left	764829
Schüco Corona CT70 MD	500	Roto Sil	Right	764828
Schüco Corona SI82 MD				
Veka Softline 70 MD	500	Roto Sil	Left	636516
	500	Roto Sil	Right	636515



6.4 Forcibly controlled scissor stay

6.4.1 Hinge side P

6.4.1.1 Comfort



											Nº
12/20-9	460 – 600	490	190	250	max. 50 kg	–	–	Roto Sil	Left	795042	
		490	190	250	max. 50 kg	–	–	Roto Sil	Right	795043	
	601 – 800	690	200	350	max. 50 kg	–	–	Roto Sil	Left	795044	
		690	200	350	max. 50 kg	–	–	Roto Sil	Right	795045	
	801 – 1000	890	200	500	max. 50 kg	1	E	Roto Sil	Left	795046	
		890	200	500	max. 50 kg	1	E	Roto Sil	Right	795047	
12/20-13	460 – 600	490	190	250	max. 50 kg	–	–	Roto Sil	Left	795032	
		490	190	250	max. 50 kg	–	–	Roto Sil	Right	795033	
	601 – 800	690	200	350	max. 50 kg	–	–	Roto Sil	Left	795036	
		690	200	350	max. 50 kg	–	–	Roto Sil	Right	795037	
	801 – 1000	890	200	500	max. 50 kg	1	E	Roto Sil	Left	795040	
		890	200	500	max. 50 kg	1	E	Roto Sil	Right	795041	
		890	200	500	max. 50 kg	1	V	Roto Sil	Left	795048	
		890	200	500	max. 50 kg	1	V	Roto Sil	Right	795049	

For compatible stay bearings, see → *from page 306*.

For compatible cover caps, see → *from page 311*.



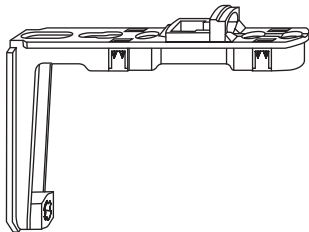
INFO

Between SRW 1001 – 1400 mm with espagnolette extension.



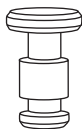
6.5 Rebate stay guide

6.5.1 Hinge side P



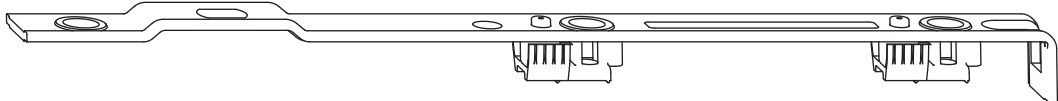
			Nº
Rebate stay guide for hinge side P / T / A16	110 / 65	Roto Sil	331488

For compatible rebate stay arms, see → *from page 300*.



		Nº
Packer for Tilt-Only sash	Roto Sil	230651

6.5.2 Hinge side Designo (HA 13)

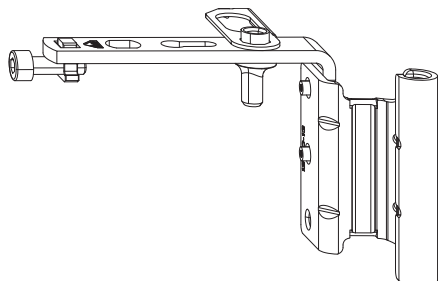


				Nº
Rebate stay guide for hinge side Designo (HA 9 / HA 13)	224 / 15	Not for Tilt-Only windows	Roto Sil	477255
	224 / 50	–	Roto Sil	640563

For compatible rebate stay arms, see → *from page 301*.

6.6 Rebate stay arm

6.6.1 Hinge side P



			Nº
12/18-9	Roto Sil	Left	787371
		Right	787372
	White	Left	788472
		Right	788473
12/20-9	Roto Sil	Left	787373
		Right	787374
	White	Left	788474
		Right	788475
12/20-13	Roto Sil	Left	787375
		Right	787376
	White	Left	788476
		Right	788477
	Titanium	Left	795210
		Right	795211
12/21-13	Roto Sil	Left	817207
		Right	817208
	White	Left	817209
		Right	817210
12/22-13	Roto Sil	Left	787377
		Right	787378
	White	Left	788478
		Right	788479

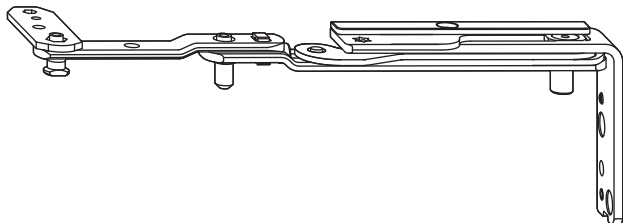
For compatible stay bearings, see → *from page 306*.

For the compatible rebate stay guide, see → *from page 299*.



6.6.2 Hinge side Designo (HA 13)

6.6.2.1 Standard



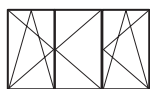
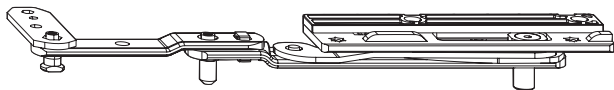
				Nº
Aluplast Ideal 2000		Roto Sil	Left	623966
		Roto Sil	Right	623965
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Schüco Corona MD Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000		Roto Sil	Left	628936
		Roto Sil	Right	628914
Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD		Roto Sil	Left	635227
		Roto Sil	Right	635226
Deceuninck Eforte Deceuninck Prestige Inoutic AD 13 Inoutic MD 100		Roto Sil	Left	635274
		Roto Sil	Right	635273
Deceuninck Elegant Deceuninck Legend KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Trocacal 76 Trocacal 88 MD		Roto Sil	Left	812022
		Roto Sil	Right	812021
Deceuninck Zendow KBE 70 AD		Roto Sil	Left	623946
		Roto Sil	Right	623945
Gealan Kubus		Roto Sil	Left	807530
		Roto Sil	Right	807529
Gealan S3000 Gealan S7000 Gealan S8000		Roto Sil	Left	606325
		Roto Sil	Right	606324
Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance		Roto Sil	Left	606345
		Roto Sil	Right	606344
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730)		Roto Sil	Left	610948
		Roto Sil	Right	610947
Rehau S 980 Geneo		Roto Sil	Left	606362
		Roto Sil	Right	606361



			Nº
Salamander 2D	Roto Sil	Left	635508
Salamander 3D	Roto Sil	Right	635507
Salamander Streamline 76			
Salamander BluEvolution 92	Roto Sil	Left	635618
	Roto Sil	Right	635617
Schüco Corona CT70 AD	Roto Sil	Left	764815
Schüco Corona CT70 MD	Roto Sil	Right	764794
Schüco Corona SI82 MD			
Veka Alphaline 90	Roto Sil	Left	606388
Veka Softline 70 AD	Roto Sil	Right	606387
Veka Softline 70 MD			

For the compatible rebate stay guide, see → *from page 299*.

6.6.2.2 Triple-sashed windows (centre sash)



			Nº
Aluplast Ideal 2000	Roto Sil	Left	741501
Schüco Corona CT70 AD	Roto Sil	Right	741500
Schüco Corona CT70 MD			
Schüco Corona SI82 MD			
Trocal InnoNova 70.A5 AD			
Trocal InnoNova 70.M5 MD			
Aluplast Ideal 4000	Roto Sil	Left	741515
Aluplast Ideal 5000	Roto Sil	Right	741504
Aluplast Ideal 8000			
Schüco Corona AD			
Schüco Corona MD			
Aluplast energeto 5000 view			
Aluplast energeto 7000			
Aluplast Ideal 7000			
Brügmann AD 13	Roto Sil	Left	738588
Brügmann MD 13	Roto Sil	Right	738554
Veka Alphaline 90			
Veka Softline 70 AD			
Veka Softline 70 MD			
Veka Softline 82 MD			
Veka Topline AD 13			
Veka Topline MD 13			
Salamander GreenEvolution 76			
Deceuninck Eforte	Roto Sil	Left	741497
Deceuninck Prestige	Roto Sil	Right	741496
Inoutic AD 13			
Inoutic MD 100			
Gealan S3000	Roto Sil	Left	766738
Gealan S7000	Roto Sil	Right	766739
Gealan S8000			
KBE 76	Roto Sil	Left	766121
KBE 88 MD	Roto Sil	Right	766122
Kömmerling 76			
Kömmerling 88 MD			
Trocal 76			
Trocal 88 MD			
Rehau S 730 AD	Roto Sil	Left	766742
Rehau S 735 MD	Roto Sil	Right	766743
Rehau S 799 Brillant Design (S 730)			



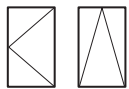
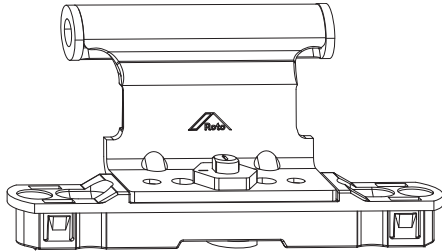
			Nº
Rehau S 969 Synego Rehau S 980 Geneo Salamander BluEvolution 92	Roto Sil	Left	766766
	Roto Sil	Right	766767
Salamander 2D Salamander 3D Salamander Design 3D Salamander Streamline 76	Roto Sil	Left	766770
	Roto Sil	Right	766771

For the compatible rebate stay guide, see → *from page 299*.



6.7 Turn-Only/Tilt-Only rebate hinge

6.7.1 Hinge side P



					Nº
12/18-9	±3.0 mm	With compensation	Y	Roto Sil	787379
		Without compensation	Y	White	788480
	–	With compensation	Y	Roto Sil	787380
		Without compensation	Y	White	788481
12/20-9	±3.0 mm	With compensation	Y	Roto Sil	787383
		Without compensation	Y	White	788484
	–	With compensation	Y	Roto Sil	787384
		Without compensation	Y	White	788485
12/18-13	±3.0 mm	With compensation	Y	Roto Sil	787381
		Without compensation	Y	White	788482
	–	With compensation	Y	Roto Sil	787382
		Without compensation	Y	White	788483
12/20-13	±3.0 mm	With compensation	Y	Roto Sil	787387
		Without compensation	Y	White	788488
		Without compensation	Y	Titanium	795264
	–	With compensation	Y	Roto Sil	787388
		Without compensation	Y	White	788489
		Without compensation	Y	Titanium	795265
12/21-13	±3.0 mm	With compensation	Y	Roto Sil	787389
		Without compensation	Y	White	788490
	–	With compensation	Y	Roto Sil	787390
		Without compensation	Y	White	788491
12/22-13	±3.0 mm	With compensation	Y	Roto Sil	787391
		Without compensation	Y	White	788492
	–	With compensation	Y	Roto Sil	787392
		Without compensation	Y	White	788493

For compatible stay bearings, see → *from page 306*.

For compatible cover caps, see → *from page 311*.



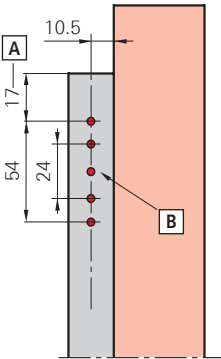
INFO

On Turn-Only sashes, Turn-Only/Tilt-Only rebate hinges must only be used as a supporting central hinge.



6.8 Turn-Only/Tilt-Only overlap hinge

Installation and description



Assignment	Meaning
[A]	With 20 mm overlap
[B]	Ø 3 mm, drill hole 5 mm deep



6.8.1 Hinge side P



12/20-9 12/20-13	max. 80 kg	Y	2 x Ø 3 mm	Roto Sil	Nº	787400

For compatible stay bearings, see → *from page 307*.

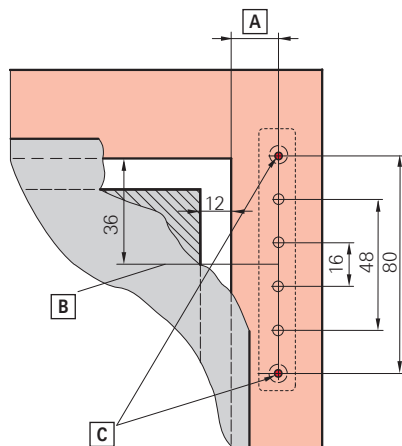
For compatible cover caps, see → *from page 312*.

6.9 Stay bearing

6.9.1 Hinge side P

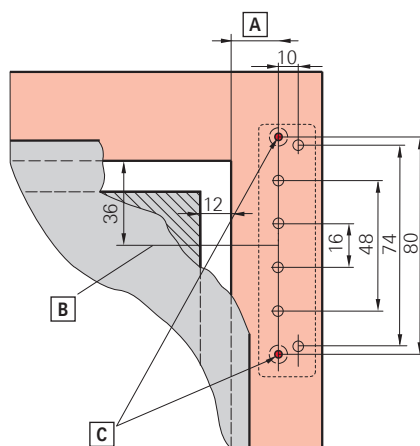
Installation and description

Standard – P 3/130 | P 6/130



Assignment	Meaning	System
[A]	16.5 mm	12/18–9, 12/18–13
	18.5 mm	12/20–9, 12/20–13
	19.5 mm	12/21–13
	20.5 mm	12/22–13
[B]	Stay bearing centre	–
[C]	P 3/130 stay bearing, drill hole Ø 3 mm, 4 mm deep	–
	P 6/130 stay bearing, drill hole Ø 6 mm, 9 mm deep	

Standard – P 6/150



Assignment	Meaning	System
[A]	16.5 mm	12/18–9, 12/18–13
	18.5 mm	12/20–9, 12/20–13
	19.5 mm	12/21–13
	20.5 mm	12/22–13
[B]	Stay bearing centre	–
[C]	P 6/150 stay bearing, drill hole Ø 6 mm, 9 mm deep	–



6.9.1.1 Standard – P 3/130 | P 6/130

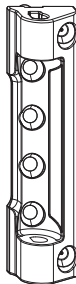


					Nº
P 3/130	max. 130 kg	Y	2 x Ø 3 mm	Roto Sil	859171
				White	859174
				Titanium	859964
P 6/130	max. 130 kg	Y	2 x Ø 6 mm	Roto Sil	859172
				White	859960
				Titanium	859965

One stay-bearing pin is required for every stay bearing. For details, see → *from page 308*.

For compatible cover caps, see → *from page 309*.

6.9.1.2 Standard – P 6/150

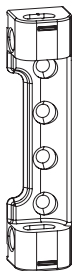


					Nº
P 6/150	max. 150 kg	Y	2 x Ø 6 mm	Roto Sil	859173
				White	859961
				Titanium	859966

One stay-bearing pin is required for every stay bearing. For details, see → *from page 308*.

For compatible cover caps, see → *from page 309*.

6.9.1.3 Laterally adjustable



					Nº
P 3/100	max. 100 kg	Y	2 x Ø 3 mm	Roto Sil	840384
				White	840401
				Titanium	840402
P 6/100			2 x Ø 6 mm	Roto Sil	840403
				White	840404
				Titanium	840405

One stay-bearing pin is required for every stay bearing. For details, see → *from page 308*.

For compatible cover caps, see → *from page 310*.

6.9.2 Stay-bearing pins



			Nº
Stay-bearing pin	86	Roto Sil	834705



6.10 Cover caps

6.10.1 Hinge side P

6.10.1.1 Stay bearing – standard

Cover caps



			Nº
P 3/130 P 6/130	R01.1	Natural silver	861148
	R01.2	Nickel silver	861149
	R01.3	Titanium	861155
	R03.1	Brass matt	861156
	R03.2	Brass, polished	861160
	R04.1	Grey brown	861152
	R04.3	Olive brown	861153
	R04.4	Black brown	861154
	R05.3	Medium bronze	861165
	R05.5	Bronze	861166
	R06.2	Jet black	862558
	R07.2	Traffic white	861167
	R07.3	Cream	861168
	SF	Special colour	862560
P 6/150	R01.1	Natural silver	861169
	R01.2	Nickel silver	861170
	R01.3	Titanium	861171
	R03.1	Brass matt	861172
	R03.2	Brass, polished	861174
	R04.1	Grey brown	861175
	R04.3	Olive brown	861176
	R04.4	Black brown	861177
	R05.3	Medium bronze	861178
	R05.5	Bronze	861179
	R06.2	Jet black	862562
	R07.2	Traffic white	861197
	R07.3	Cream	861198
	SF	Special colour	862563

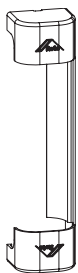


Plug



			Nº
P 6/150	R01.3	Titanium	788500
	R07.2	Traffic white	788435

6.10.1.2 Stay bearing – laterally adjustable



				Nº
P 3/100 P 6/100	R01.1	Natural silver	–	840406
	R01.2	Nickel silver	–	840407
	R01.3	Titanium	–	840408
	R03.1	Brass matt	–	840409
	R03.2	Brass, polished	–	840415
	R04.1	Grey brown	–	840416
	R04.3	Olive brown	–	840417
	R04.4	Black brown	–	840418
	R05.3	Medium bronze	–	840419
	R05.5	Bronze	–	840420
	R06.2	Jet black	–	2005470
	R07.3	Cream	–	840421
	R07.2	Traffic white	–	840422
	SF	Special colour	–	840423



6.10.1.3 Stay arm and Turn-Only / Tilt-Only rebate hinge

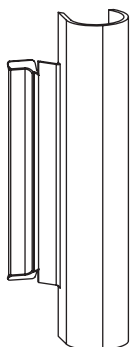


INFO

Compatible with the following components:

- Stay arm – standard
- Stay arm – TiltFirst (TF)
- Stay arm – pitched window (SF)
- Stay arm – arched window
- Turn-Only / Tilt-Only rebate hinge

With link



					Nº
					
12/18-9		R01.1	Natural silver		788403
12/20-9		R01.2	Nickel silver		810816
12/20-13		R01.3	Titanium		788404
12/21-13		R03.1	Brass matt		788405
12/22-13		R03.2	Brass, polished		810817
		R04.1	Grey brown		788406
		R04.3	Olive brown		810818
		R04.4	Black brown		788407
		R05.3	Medium bronze		788408
		R05.5	Bronze		788409
		R06.2	Jet black		821926
		R07.2	Traffic white		788410
		R07.3	Cream		810819
		SF	Special colour		840752

Without link

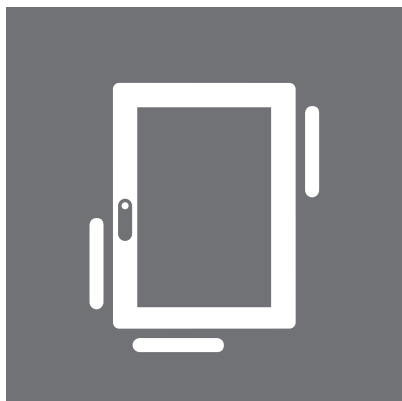


			Nº
 12/18-9 12/20-9 12/20-13 12/21-13 12/22-13	R01.1	Natural silver	788395
	R01.2	Nickel silver	795969
	R01.3	Titanium	788396
	R03.1	Brass matt	788397
	R03.2	Brass, polished	795974
	R04.1	Grey brown	788398
	R04.3	Olive brown	795979
	R04.4	Black brown	788399
	R05.3	Medium bronze	788400
	R05.5	Bronze	788401
	R06.2	Jet black	894965
	R07.2	Traffic white	788402
	R07.3	Cream	795984
	SF	Special colour	840747

6.10.1.4 Turn-Only/Tilt-Only overlap hinge



			Nº
12/20-9 12/20-13	R01.1	Natural silver	792387
	R01.2	Nickel silver	810820
	R01.3	Titanium	792388
	R03.1	Brass matt	810821
	R03.2	Brass, polished	810822
	R04.1	Grey brown	792389
	R04.3	Olive brown	810823
	R04.4	Black brown	792390
	R05.3	Medium bronze	792391
	R05.5	Bronze	810825
	R06.2	Jet black	2029912
	R07.2	Traffic white	792392
	R07.3	Cream	810824
	SF	Special colour	840748





Multipart

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Security	319
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Espagnolette	321

Floating mullion

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Reverse-action

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Hook

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Arched window

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Horizontal arched component	327
Vertical arched component	327

Comfort

See page	328
----------	-----

7 Centre locks

7.1 Multipart

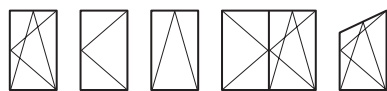
7.1.1 Standard

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
	600	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
	400	1	P	–	Roto Sil	255285
		1	P	Cam position -4 mm	Roto Sil	593611
		1	V	–	Roto Sil	296854
		1	V	Cam position -4 mm	Roto Sil	593612
	600	1	P	–	Roto Sil	255286
		1	V	–	Roto Sil	296855

Couplable on both sides

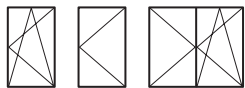
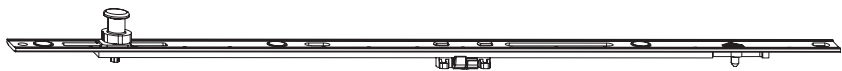


						Nº
Y	130	1	V	–	Roto Sil	567456
	200	1	P	–	Roto Sil	622880
		1	V	Special packaging	Roto Sil	337708
	400	1	P	–	Roto Sil	622881
		1	V	Special packaging	Roto Sil	337710
	600	1	P	–	Roto Sil	622882
		1	V	–	Roto Sil	296852
		1	V	Special packaging	Roto Sil	337711



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

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



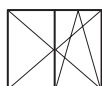
7.1.5 Espagnolette

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

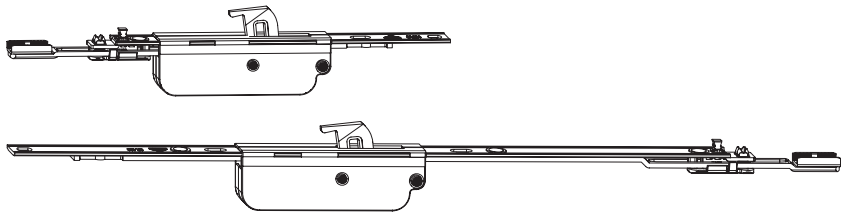


							Nº
Y	400	To be used horizontally at the bottom, above the handle height	2	P	Roto Sil		373968
		To be used horizontally at the top, below the handle height and on the hinge side	2	P	Roto Sil		377263



7.4 Hook

Height of hook 17 mm



				Nº
Y	200	Height of hook 17 mm; horizontally at the bottom	Roto Sil	821929
	400	Height of hook 17 mm; horizontally at the bottom	Roto Sil	821995



INFO Connecting thresholds

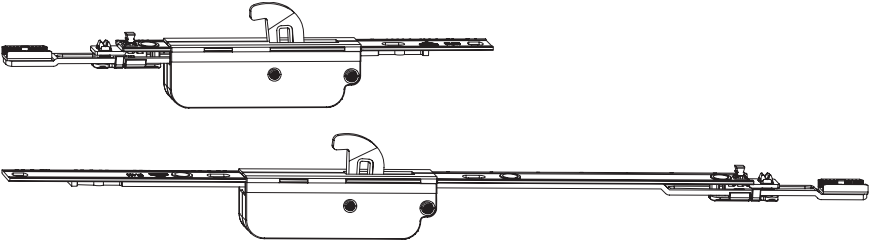
The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



IMO 347



Height of hook 21 mm



				Nº
Y	200	Height of hook 21 mm; vertically at the top of the espagnolette side and horizontally at the bottom	Roto Sil	365299
	400	Height of hook 21 mm; vertically at the bottom of the espagnolette side and vertically on the hinge side	Roto Sil	365300



INFO
Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



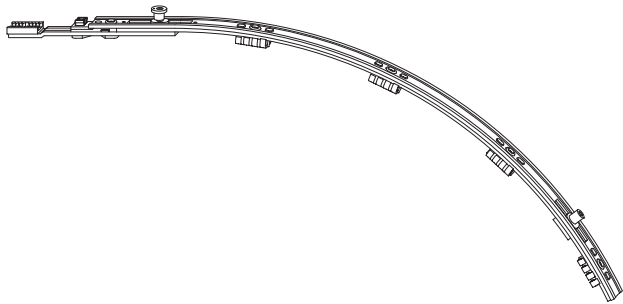
IMO 347



7.5 Arched window

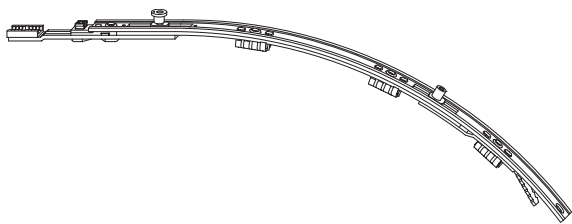
7.5.1 Standard

Couplable on one side



					Nº
N	750	2 / -	E / -	Roto Sil	245736
		1 / 1	V / E	Roto Sil	245735

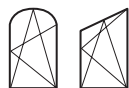
Couplable on both sides



					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

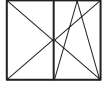
7.5.3 Vertical arched component



							Nº
500 – 700	420	200	Y	– / –	– / –	Roto Sil	245715
701 – 900	620	200	N	1 / –	E / –	Roto Sil	245717
		200	N	1 / 1	V / E	Roto Sil	245716
901 – 1100	820	200	N	1 / –	E / –	Roto Sil	245719
		200	N	1 / 1	V / E	Roto Sil	245718
1101 – 1300	1020	200	N	1 / –	E / –	Roto Sil	245721
		200	N	1 / 1	V / E	Roto Sil	245720
1301 – 1500	1220	200	N	2 / –	E / –	Roto Sil	245723
		200	N	1 / 1	V / E	Roto Sil	245722
1501 – 1700	1420	200	N	2 / –	E / –	Roto Sil	245725
		200	N	1 / 2	V / E	Roto Sil	245724
1701 – 1900	1620	200	N	2 / –	E / –	Roto Sil	245727
		200	N	1 / 2	V / E	Roto Sil	245726



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

Frame clearance	334
Hinge side Designo (HA 13)	336

Corner hinges

Hinge side P	337
Hinge side Designo (HA 13)	338

Pivot rests

Hinge side P	339
Hinge side Designo (HA 13)	340

Load transfer

Hinge side Designo (HA 13)	343
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Cover caps

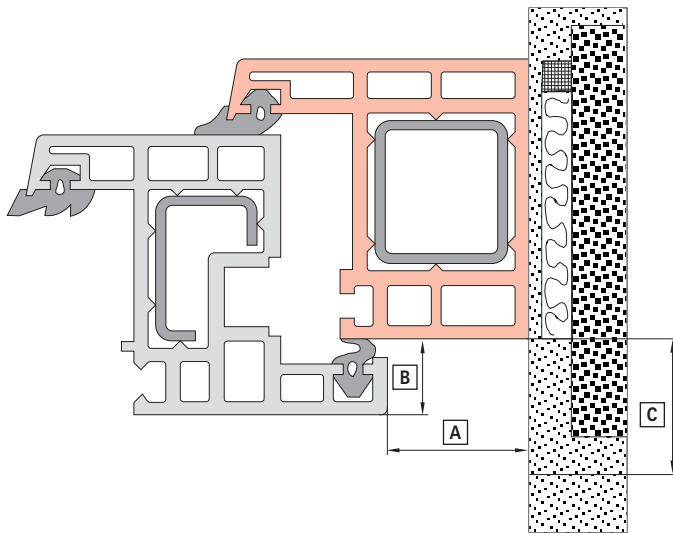
Hinge side P	344
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8 Corner hinges / pivot rests

8.1 Frame clearances

8.1.1 Frame clearance

Frame clearances with a 20 mm overlap width.



Sash weight	Opening angle	Frame clearance [A]	Overlap height [B]	Free area [C]
130 kg	Approx. 180° [5]	≥ 21.0 mm	≥ 16 mm	100 mm
150 kg	Approx. 150° [6]	≥ 26.5 mm	≥ 16 mm	100 mm



INFO

Clearances including cover caps.

Opening angle up to 20 mm overlap height.



DANGER

Risk of death caused by damage to bearing components!

Large overlap heights [B] or components near the reveal (such as skirting boards) may result in excessive leverage on the hinge side. This can damage the bearing components and cause the sash to fall.

- In the free area [C], the sash must not come into contact with the reveal or components near the reveal.
- With a reveal depth of < 100 mm, check whether a turn restrictor is required.



ATTENTION

Property damage caused by damage to bearing components!

Large overlap heights [B] or components near the reveal (such as skirting boards) may result in excessive leverage on the hinge side. This can damage the bearing components and cause the sash to fall.

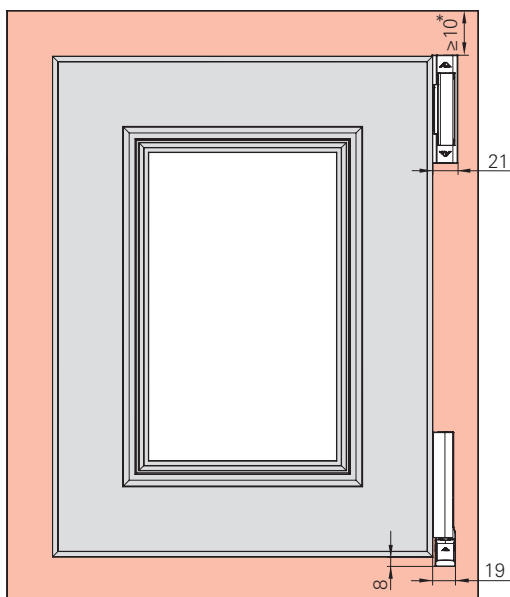
- In the free area [C], the sash must not come into contact with the reveal or components near the reveal.
- With a reveal depth of < 100 mm, check whether a turn restrictor is required.

[5] The opening angle may be less than 180° depending on the reveal.

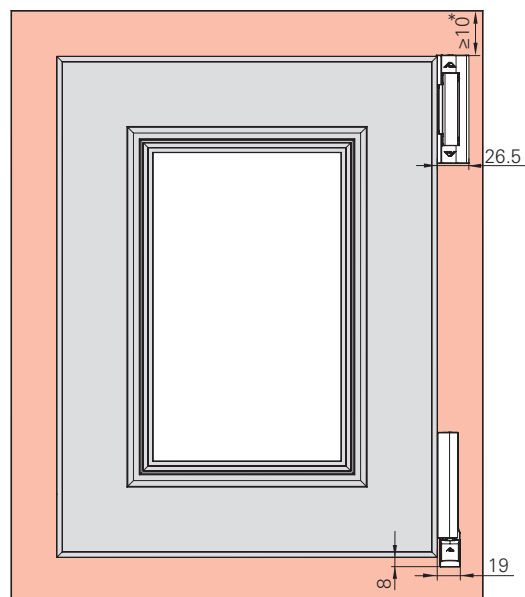
[6] The opening angle may be less than 150° depending on the reveal.



Sash weight 130 kg



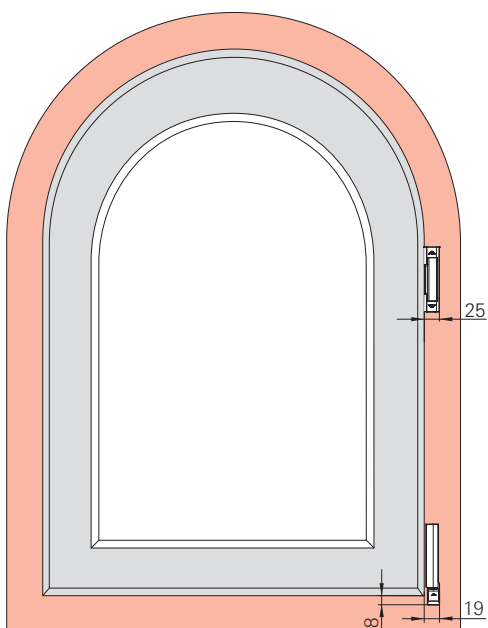
Sash weight 150 kg



* For dismantling the stay-bearing pin, leave at least 10 mm clearance from the reveal.

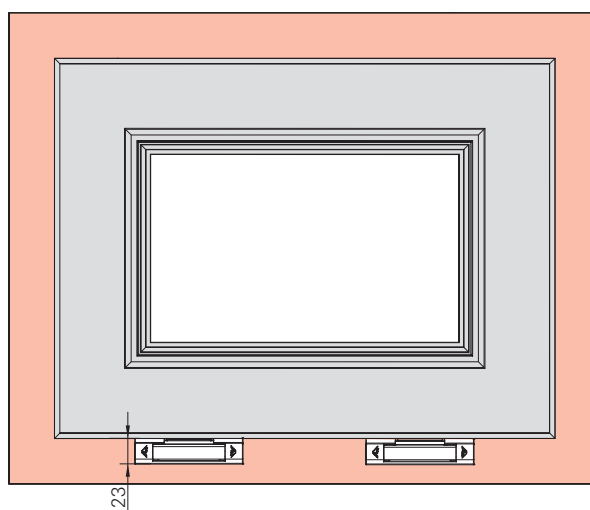
Arch

Sash weight 80 kg

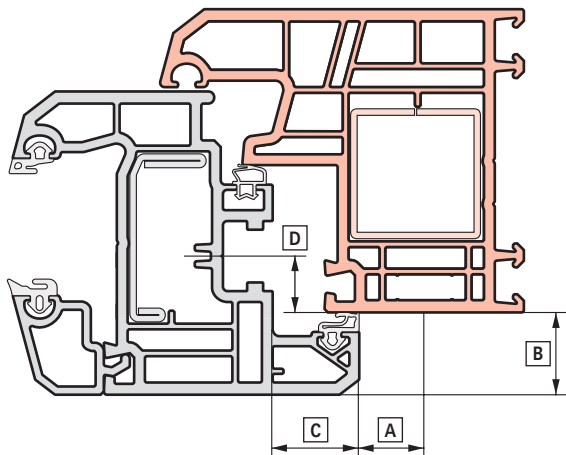


Tilt-Only hardware

Sash weight 80 kg



8.1.2 Hinge side Designo (HA 13)



Frame clearances (in mm) at a 90° opening angle.

	Opening angle	Frame clearance [A]	Overlap height [B]	Overlap width [C]	Hardware axis [D]
Hinge side Designo (HA 13)	90°	5.2	16	18	13
	90°	7.6	20	18	13
	90°	10.6	24	18	13
	90°	4.9	16	20	13
	90°	7.2	20	20	13
	90°	9.9	24	20	13
	90°	4.7	16	22	13
	90°	6.8	20	22	13
	90°	9.3	24	22	13



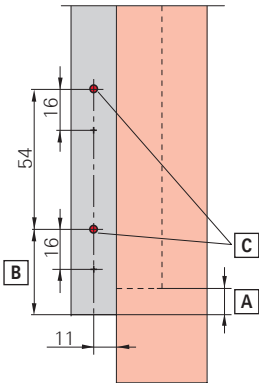


8.2 Corner hinges

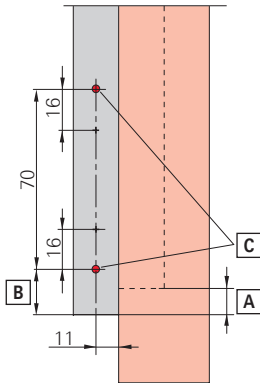
8.2.1 Hinge side P

Installation and description

P 6/150



Height adjustable

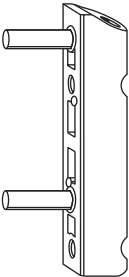


Height and gasket-compression adjustable

Assignment	Meaning	System
[A]	Overlap width	-
[B]	Height adjustable: 40.5 mm	12/18-9, 12/18-13
	Height and gasket-compression adjustable: 24.5 mm	
	Height adjustable: 42.5 mm	12/20-9, 12/20-13
	Height and gasket-compression adjustable: 26.5 mm	
	Height adjustable: 43.5 mm	12/21-13
	Height and gasket-compression adjustable: 27.5 mm	
	Height adjustable: 44.5 mm	12/22-13
	Height and gasket-compression adjustable: 28.5 mm	
[C]	P 6/150 corner hinge, drill hole Ø 6 mm, 23 mm deep	-



8.2.1.1 P 6/150

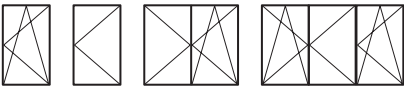
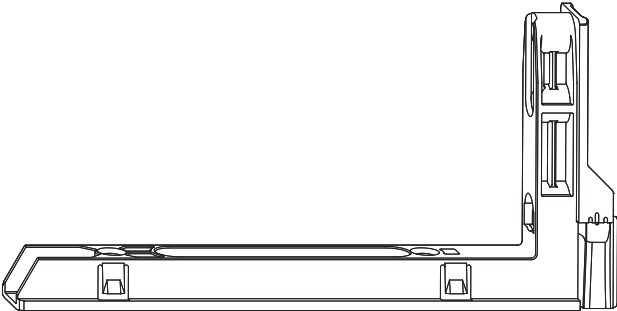


						Nº
K 6/130 P 6/150	max. 150 kg	Y	2 x Ø 6 mm	Height adjustable	Roto Sil	263858
					White	230342
					Titanium	795019
				Height and gasket-compression adjustable	Roto Sil	445171
					White	639305
					Titanium	788327

For compatible pivot rests, see → *from page 339*.

For compatible cover caps, see → *from page 344*.

8.2.2 Hinge side Designo (HA 13)



		Nº
Corner hinge – Designo hinge side (HA 13)	Roto Sil	634705

For compatible pivot rests, see → *from page 340*.

For compatible load transfer, see → *from page 343*.

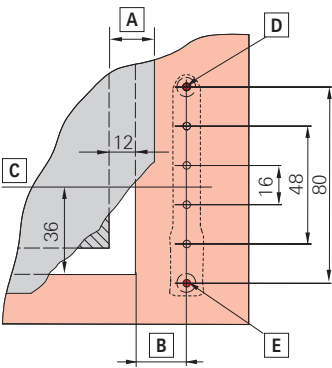


8.3 Pivot rests

8.3.1 Hinge side P

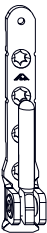
Installation and description

P 3/130 | P 6/130 | P 6/150



Assignment	Meaning	System
[A]	Overlap width	-
[B]	16.5 mm	12 / 18-9, 12 / 18-13
	18.5 mm	12 / 20-9, 12 / 20-13
	19.5 mm	12 / 21-13
	20.5 mm	12 / 22-13
[C]	Pivot rest centre	-
[D]	P 3 / 130 pivot rest, drill hole Ø 3 mm, 3 mm deep	-
	P 6 / 130 pivot rest, drill hole Ø 6 mm, 3 mm deep	
	P 6 / 150 pivot rest, top drill hole Ø 6 mm, 3 mm deep	
[E]	P 3 / 130 pivot rest, drill hole Ø 3 mm, 3 mm deep	-
	P 6 / 130 pivot rest, drill hole Ø 6 mm, 9 mm deep	
	P 6 / 150 pivot rest, drill hole Ø 6 mm, 19 mm deep	

8.3.1.1 P 3/130 | P 6/130

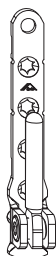


P 3/130	max. 130 kg	Laterally adjustable	Y	2 x Ø 3 mm	Roto Sil	787207
P 6/130				2 x Ø 6 mm	White	787210
					Titanium	795013
					Roto Sil	787208
					White	787211
					Titanium	795014

For compatible corner hinges, see → from page 337.

For compatible cover caps, see → from page 345 and → from page 345.

8.3.1.2 P 6/150



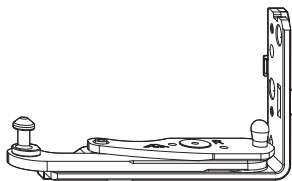
						Nº
P 6/150	max. 150 kg	Laterally adjustable	Y	2 x Ø 6 mm	Roto Sil	787209
					White	787212
					Titanium	788501

For compatible corner hinges, see → *from page 337*.

For compatible cover caps, see → *from page 345* and → *from page 345*.

8.3.2 Hinge side Designo (HA 13)

8.3.2.1 Standard



			Nº
Aluplast Ideal 2000	Roto Sil	Left	623974
	Roto Sil	Right	623973
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Schüco Corona MD Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000	Roto Sil	Left	628950
	Roto Sil	Right	628949
Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	Roto Sil	Left	635235
	Roto Sil	Right	635234
Deceuninck Eforte Deceuninck Prestige Inoutic AD 13 Inoutic MD 100	Roto Sil	Left	635402
	Roto Sil	Right	635401



			Nº
Deceuninck Elegant Deceuninck Legend KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Trocal 76 Trocal 88 MD	Roto Sil	Left	757736
	Roto Sil	Right	757735
Deceuninck Zendow KBE 70 AD	Roto Sil	Left	623953
	Roto Sil	Right	623954
Gealan Kubus	Roto Sil	Left	807528
	Roto Sil	Right	807527
Gealan S3000 Gealan S7000 Gealan S8000	Roto Sil	Left	606343
	Roto Sil	Right	606341
Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	Roto Sil	Left	606355
	Roto Sil	Right	606354
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730)	Roto Sil	Left	610966
	Roto Sil	Right	610965
Rehau S 980 Geneo	Roto Sil	Left	606371
	Roto Sil	Right	606370
Salamander 2D Salamander 3D	Roto Sil	Left	635616
	Roto Sil	Right	635615
Salamander BluEvolution 92	Roto Sil	Left	635626
	Roto Sil	Right	635625
Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD	Roto Sil	Left	764823
	Roto Sil	Right	764822
Veka Softline 70 MD	Roto Sil	Left	606397
	Roto Sil	Right	606396



For compatible corner hinges, see → *from page 338*.

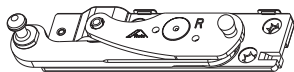
For compatible load transfer, see → *from page 343*.

8.3.2.2 Pivot rest cover



			Nº
Pivot rest cover – Designo hinge side	Clampable	Left	799664
		Right	799789

8.3.2.3 Triple-sashed windows (centre sash)



			Nº
Aluplast Ideal 2000	Roto Sil	Left	741503
Schüco Corona CT70 AD	Roto Sil	Right	741502
Schüco Corona CT70 MD			
Schüco Corona SI82 MD			
Trocal InnoNova 70.A5 AD			
Trocal InnoNova 70.M5 MD			
Aluplast Ideal 4000	Roto Sil	Left	741517
Aluplast Ideal 5000	Roto Sil	Right	741516
Aluplast Ideal 8000			
Schüco Corona AD			
Schüco Corona MD			
Aluplast energeto 5000 view			
Aluplast energeto 7000			
Aluplast Ideal 7000			
Brüggmann AD 13	Roto Sil	Left	738596
Brüggmann MD 13	Roto Sil	Right	738595
Veka Alphaline 90			
Veka Softline 70 AD			
Veka Softline 70 MD			
Veka Softline 82 MD			
Veka Topline AD 13			
Veka Topline MD 13			
Salamander GreenEvolution 76			
Deceuninck Eforte	Roto Sil	Left	741499
Deceuninck Prestige AD	Roto Sil	Right	741498
Deceuninck Prestige MD			
Inoutic AD 13			
Inoutic MD 100			
Gealan S3000	Roto Sil	Left	766736
Gealan S7000	Roto Sil	Right	766737
Gealan S8000			
KBE 76	Roto Sil	Left	766119
KBE 88 MD	Roto Sil	Right	766120
Kömmerling 76			
Kömmerling 88 MD			
Trocal 76			
Trocal 88 MD			
Rehau S 730 AD	Roto Sil	Left	766740
Rehau S 735 MD	Roto Sil	Right	766741
Rehau S 799 Brillant Design (S 730)			
Rehau S 969 Synego	Roto Sil	Left	766744
Rehau S 980 Geneo	Roto Sil	Right	766765
Salamander BluEvolution 92			
Salamander 2D	Roto Sil	Left	766768
Salamander 3D	Roto Sil	Right	766769
Salamander Design 3D			

For compatible corner hinges, see → *from page 338*.



8.4 Load transfer

8.4.1 Hinge side Designo (HA 13)



				Nº
Sash component	max. 150 kg	Roto Sil		567972
Frame component		Roto Sil		565254

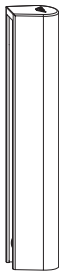


8.5 Cover caps

8.5.1 Hinge side P

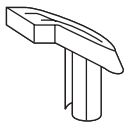
8.5.1.1 Corner hinge – standard

Cover caps



			Nº
P 6/150	R01.1	Natural silver	788427
	R01.2	Nickel silver	795971
	R01.3	Titanium	788428
	R03.1	Brass matt	788429
	R03.2	Brass, polished	795976
	R04.1	Grey brown	788430
	R04.3	Olive brown	795981
	R04.4	Black brown	788431
	R05.3	Medium bronze	788432
	R05.5	Bronze	788433
	R06.2	Jet black	821923
	R07.2	Traffic white	788434
	R07.3	Cream	795986
	SF	Special colour	840749

Plug



			Nº
K 3/100 K 6/130 P 6/150	R01.1	Natural silver	642266
	R01.3	Titanium	799287
	R07.2	Traffic white	642267



8.5.1.2 Pivot rest – standard



			Nº
P 3/130 P 6/130 P 6/150	R01.1	Natural silver	788419
	R01.2	Nickel silver	795973
	R01.3	Titanium	788420
	R03.1	Brass matt	788421
	R03.2	Brass, polished	795978
	R04.1	Grey brown	788422
	R04.3	Olive brown	795983
	R04.4	Black brown	788423
	R05.3	Medium bronze	788424
	R05.5	Bronze	788425
	R06.2	Jet black	821924
	R07.2	Traffic white	788426
	R07.3	Cream	795988
	SF	Special colour	840750

8.5.1.3 Pivot rest – tab



			Nº
P 3/130 P 6/130 P 6/150	R01.1	Natural silver	788411
	R01.2	Nickel silver	795972
	R01.3	Titanium	788412
	R03.1	Brass matt	788413
	R03.2	Brass, polished	795977
	R04.1	Grey brown	788414
	R04.3	Olive brown	795982
	R04.4	Black brown	788415
	R05.3	Medium bronze	788416
	R05.5	Bronze	788417
	R06.2	Jet black	821925
	R07.2	Traffic white	788418
	R07.3	Cream	795987
	SF	Special colour	840751





Tilt strikers

Standard	350
TiltFirst (TF)	353
Thresholds	355
Lateral Tilt&Turn	355

Strikers

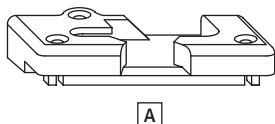
Standard	356
Security	357
Double-sashed window	362
Floating mullion	364
Hook	364

9 Locking components

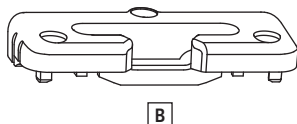
9.1 Tilt strikers

9.1.1 Standard

9.1.1.1 Zinc



A



B

Assignment	Meaning	Security
[A]	With base	RC 1 N, RC 2 / RC 2 N
[B]	Without base	Basic security

					Nº
Aluplast Ideal 2000	13	N	Roto Sil	–	331487
Schüco Corona CT70 MD	13	Y	Roto Sil	Left	260501
Schüco Corona SI82 MD	13	Y	Roto Sil	Right	260502
LB Profile Pad					
Schüco LivIng 82					
Aluplast Ideal 4000	13	N	Roto Sil	–	350190
Aluplast Ideal 5000	13	Y	Roto Sil	Left	257364
Schüco Corona AD	13	Y	Roto Sil	Right	257365
Aluplast energeto 5000					
Aluplast energeto 5000 view					
Aluplast energeto 7000					
Aluplast energeto 8000					
Aluplast Ideal 8000					
Aluplast Ideal 7000					
Brüggmann AD 13	13	Y	Roto Sil	Left	292195
Brüggmann MD 13	13	Y	Roto Sil	Right	292196
Deceuninck Eforte	13	Y	Roto Sil	Left	260499
Deceuninck Prestige AD	13	Y	Roto Sil	Right	260500
Inoutic AD 13					
Inoutic MD 100					
Deceuninck Zendow	13	Y	Roto Sil	Left	370073
Deceuninck Elegant	13	Y	Roto Sil	Right	370074
Deceuninck Legend					
Deceuninck Klassiek	13	Y	Roto Sil	Left	281599
Deceuninck Mondial VK	13	Y	Roto Sil	Right	281600
Deceuninck Prestige MD	13	N	Roto Sil	–	729039
Inoutic AD 13					
Deceuninck Prestige MD	13	Y	Roto Sil	Left	288117
	13	Y	Roto Sil	Right	288118
Gealan Kubus	13	N	Roto Sil	–	807518
	13	Y	Roto Sil	Left	807515
	13	Y	Roto Sil	Right	807516
Gealan S3000	13	N	Roto Sil	–	367200
Gealan S7000	13	Y	Roto Sil	Left	260497
Gealan S8000	13	Y	Roto Sil	Right	260498
Gealan S9000					
Gealan Linear					
KBE 70 AD	13	N	Roto Sil	–	338071
KBE 70 MD	13	Y	Roto Sil	Left	289973
	13	Y	Roto Sil	Right	289974



					Nº
KBE 76	13	N	Roto Sil	–	738472
Kömmerling 76	13	Y	Roto Sil	Left	780787
Panorama 3000	13	Y	Roto Sil	Right	780788
Trocal 76					
KBE 88 MD					
Kömmerling 88 MD					
Trocal 88 MD					
KBE AD	9	Y	Roto Sil	Left	260493
	9	Y	Roto Sil	Right	260494
KBE MD	9	Y	Roto Sil	Left	260505
Trocal S900	9	Y	Roto Sil	Right	260506
Kömmerling 88 Plus	13	N	Roto Sil	–	334954
Kömmerling Eurofutur Classic					
Kömmerling Eurodur 3S	13	Y	Roto Sil	Left	260489
	13	Y	Roto Sil	Right	260490
Panorama 2000	9	Y	Roto Sil	Left	261794
	9	Y	Roto Sil	Right	281710
Plus Plan Plus Tec	13	Y	Roto Sil	Left	264420
	13	Y	Roto Sil	Right	264421
Rehau S 735 MD	13	N	Roto Sil	–	338021
Rehau S 788					
Rehau S 799 Brillant Design (S 730)					
Rehau S 969 Synego					
Rehau S 986 EuroDesign 86					
Rehau S 735 MD	13	Y	Roto Sil	Left	316939
Rehau S 788	13	Y	Roto Sil	Right	316940
Rehau S 799 Brillant Design (S 730)					
Rehau S 986 EuroDesign 86					
Rehau S 980 Geneo	13	Y	Roto Sil	Left	496018
	13	Y	Roto Sil	Right	496017
Roplasto 4K	13	Y	Roto Sil	Left	260507
Roplasto 7001 AD	13	Y	Roto Sil	Right	260508
Roplasto 7001 MD					
Salamander 2D	13	N	Roto Sil	–	561212
Salamander 3D	13	Y	Roto Sil	Left	261724
Salamander Streamline 76	13	Y	Roto Sil	Right	261725
Schüco Corona CT70 AD	13	N	Roto Sil	–	338019
Veka Alphaline 90					
Veka Softline 70 AD					
Veka Softline 70 MD					
Salamander BluEvolution 73					
Salamander BluEvolution 82					
Salamander GreenEvolution 76					
Veka Softline 82 MD					
Veka Softline 76 AD					
Veka Softline 76 MD					
Schüco Corona CT70 AD	13	Y	Roto Sil	Left	256783
Veka Softline 70 AD	13	Y	Roto Sil	Right	256784
Veka Softline 70 MD					
Salamander BluEvolution 73					
Salamander BluEvolution 82					
Salamander GreenEvolution 76					
Veka Softline 76 AD					
Veka Softline 76 MD					
Salamander BluEvolution 92	13	N	Roto Sil	–	604887
	13	Y	Roto Sil	Left	599778
	13	Y	Roto Sil	Right	599779
Trocal 88+	13	Y	Roto Sil	Left	290131
Trocal InnoNova 2000	13	Y	Roto Sil	Right	290152
Trocal InnoNova 70.A5 AD	13	N	Roto Sil	–	336808
Trocal InnoNova 70.M5 MD					
Veka Softline AD 9	9	Y	Roto Sil	Left	260495
	9	Y	Roto Sil	Right	260496



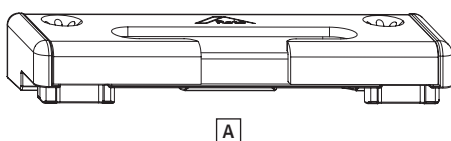
					Nº
Wymar 2500	13	Y	Roto Sil	Left	254468
	13	Y	Roto Sil	Right	294893
Wymar 3000	13	Y	Roto Sil	Left	373964
	13	Y	Roto Sil	Right	373963



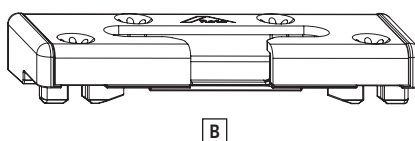
INFO

Other versions are available upon request.

9.1.1.2 Steel



A



B

Assignment	Meaning
[A]	Hardware axis 9 mm
[B]	Hardware axis 13 mm

					Nº
Aluplast Ideal 2000 Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco LivlNg 82 Veka Softline 82 MD	13	Y	Roto Sil	–	856773
Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 4000 Aluplast energeto 8000 Aluplast Ideal 5000 Aluplast Ideal 7000 Aluplast Ideal 8000 Schüco Corona AD	13	Y	Roto Sil	–	856789
Brüggmann AD 13 Brüggmann MD 13	13	Y	Roto Sil	–	856786
Inoutic AD 13 Deceuninck Eforte Inoutic MD 100 Deceuninck Prestige AD	13	Y	Roto Sil	–	856797
Deceuninck Elegant Deceuninck Legend Deceuninck Zendow	13	Y	Roto Sil	–	856783
Gealan Linear Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000	13	Y	Roto Sil	–	856781
KBE AD	9	Y	Roto Sil	–	856800
KBE 70 AD	13	Y	Roto Sil	–	856787
KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Trocal 76 Trocal 88 MD	13	Y	Roto Sil	–	856799
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	Y	Roto Sil	–	857009



					Nº
Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance Wymar 3000	13	Y	Roto Sil	–	857008
Plus Plan Plus Tec Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	Y	Roto Sil	–	856788
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	Y	Roto Sil	–	856785
Salamander BluEvolution 73 Salamander BluEvolution 82 Schüco Corona CT70 AD Veka Softline 70 AD Veka Softline 76 AD Veka Softline 76 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13	13	Y	Roto Sil	–	856782
Salamander Design 2D Salamander Design 3D Salamander Streamline 76	13	Y	Roto Sil	–	857131
Salamander GreenEvolution 76	13	Y	Roto Sil	–	897733
Schüco Corona CT70 MD	13	Y	Roto Sil	–	856774
Trocal 88+ Trocal InnoNova 2000 Trocal S900	13	Y	Roto Sil	–	856796
Veka Softline AD 9	9	Y	Roto Sil	–	856801

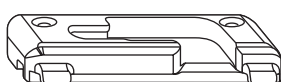


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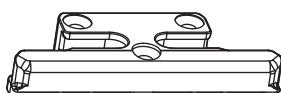
Other versions are available upon request.



9.1.2 TiltFirst (TF)



A



B

Assignment	Meaning
[A]	Right / left tilt striker
[B]	Symmetrical tilt striker

					Nº
Aluplast Ideal 2000	13	Y	Roto Sil	Left	891744
Schüco Corona CT70 AD	13	Y	Roto Sil	Right	891743
Schüco Corona CT70 MD					
Schüco Corona SI82 MD					
Aluplast energeto 5000	13	Y	Roto Sil	Left	891747
Aluplast energeto 5000 view	13	Y	Roto Sil	Right	891748
Aluplast energeto 7000					
Aluplast energeto 8000					
Aluplast Ideal 4000					
Aluplast Ideal 5000					
Aluplast Ideal 7000					
Aluplast Ideal 8000					
Schüco Corona AD					

					Nº
Brüggmann AD 13	13	Y	Roto Sil	Left	320608
Brüggmann MD 13	13	Y	Roto Sil	Right	320609
Deceuninck Eforte	13	Y	Roto Sil	Left	493840
Deceuninck Prestige AD	13	Y	Roto Sil	Right	493839
Deceuninck Prestige MD					
Inoutic AD 13					
Deceuninck Zendow	13	Y	Roto Sil	Left	493547
Deceuninck Elegant	13	Y	Roto Sil	Right	493426
Deceuninck Legend					
Gealan Kubus	13	Y	Roto Sil	Left	807519
	13	Y	Roto Sil	Right	807520
Gealan S3000	13	Y	Roto Sil	Left	280122
Gealan S7000	13	Y	Roto Sil	Right	280123
Gealan S8000					
KBE 70 AD	13	Y	Roto Sil	Left	891745
KBE 76	13	Y	Roto Sil	Right	891746
KBE 88 MD					
Kömmerling 76					
Kömmerling 88 MD					
Trocal 76					
Trocal 88 MD					
KBE AD	9	Y	Roto Sil	Left	317004
	9	Y	Roto Sil	Right	317005
Kömmerling 88 Plus	13	Y	Roto Sil	Left	309132
Kömmerling Eurodur 3S	13	Y	Roto Sil	Right	309133
Kömmerling Eurofutur Classic					
Kömmerling Eurofutur Elegance					
Rehau S 735 MD	13	Y	Roto Sil	Left	891718
Rehau S 788	13	Y	Roto Sil	Right	891719
Rehau S 799 Brillant Design (S 730)					
Rehau S 969 Synego					
Rehau S 980 Geneo					
Salamander 2D	13	Y	Roto Sil	Left	316977
Salamander 3D	13	Y	Roto Sil	Right	316978
Salamander Streamline 76					
Salamander BluEvolution 73	13	Y	Roto Sil	Left	891741
Salamander BluEvolution 82	13	Y	Roto Sil	Right	891742
Salamander GreenEvolution 76					
Veka Softline 76 AD					
Veka Softline 76 MD					
Veka Topline AD 13					
Veka Topline MD 13					
Trocal 88+	13	Y	Roto Sil	Left	606635
Trocal InnoNova 2000	13	Y	Roto Sil	Right	606636
Trocal S900	9	Y	Roto Sil	Left	309136
	9	Y	Roto Sil	Right	309137
Trocal InnoNova 70.A5 AD	13	Y	Roto Sil	Left	336107
Trocal InnoNova 70.M5 MD	13	Y	Roto Sil	Right	336108
Veka Softline 70 AD	13	N	Roto Sil	–	617391
Veka Topline AD 13					
Veka Softline 76 AD					
Veka Softline 76 MD					
Veka Softline AD 9	9	Y	Roto Sil	Left	328015
	9	Y	Roto Sil	Right	328016



INFO

Other versions are available upon request.



9.1.3 Thresholds



INFO

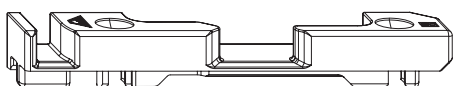
Connecting thresholds

The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



IMO_347

9.1.4 Lateral Tilt&Turn

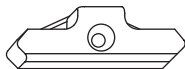


					Nº
Aluplast Ideal 2000	13	Y	Roto Sil	Left	363626
	13	Y	Roto Sil	Right	363627
KBE AD	9	Y	Roto Sil	Left	764504
	9	Y	Roto Sil	Right	764676
KBE 70 AD	13	Y	Roto Sil	Left	772925
	13	Y	Roto Sil	Right	772926
Rehau S 799 Brillant Design (S 730)	13	Y	Roto Sil	Left	772927
	13	Y	Roto Sil	Right	772928
Salamander 2D Salamander 3D	13	Y	Roto Sil	Left	363632
	13	Y	Roto Sil	Right	363634
Veka Softline 70 AD	13	Y	Roto Sil	Left	772913
	13	Y	Roto Sil	Right	772914



9.2 Strikers

9.2.1 Standard



				
Aluplast Ideal 2000 LB Profile Pad Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco Living 82	13	N	Roto Sil	331489
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Schüco Corona AD Schüco Corona MD Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast energeto 8000 Aluplast Ideal 7000	13	N	Roto Sil	350192
Brüggmann AD 13	13	N	Roto Sil	341485
Brüggmann MD 13	13	Y	Roto Sil	292193
Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic MD 100	13	Y	Roto Sil	260370
Deceuninck Zendow Deceuninck Elegant Deceuninck Legend	13	N	Roto Sil	370071
Deceuninck Klassiek Deceuninck Mondial VK	13	Y	Roto Sil	281601
Gealan Kubus	13	N	Roto Sil	796675
Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000 Gealan Linear	13	N	Roto Sil	319744
KBE AD	9	Y	Roto Sil	260367
KBE MD Trocal S900	9	Y	Roto Sil	260373
KBE 70 AD KBE 70 MD	13	N	Roto Sil	338070
KBE 76 Kömmerling 76 Trocal 76 KBE 88 MD Kömmerling 88 MD Panorama 3000 Trocal 88 MD	13	N	Roto Sil	738470
Kömmerling Eurodur 3S	13	N	Roto Sil	457090
	13	Y	Roto Sil	260365
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	N	Roto Sil	334957
Panorama 2000	9	Y	Roto Sil	281723
Plus Plan Plus Tec	13	Y	Roto Sil	264316
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	N	Roto Sil	332439



				Nº
Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	N	Roto Sil	482541
Salamander 2D Salamander 3D Salamander BluEvolution 92 Salamander Streamline 76	13	N	Roto Sil	486195
Salamander BluEvolution 82 Schüco Corona CT70 AD Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Veka Softline 82 MD Veka Softline 76 AD Veka Softline 76 MD	13	N	Roto Sil	332438
Salamander GreenEvolution 76	13	N	Roto Sil	897004
Trocal 88+ Trocal InnoNova 2000	13	Y	Roto Sil	290127
Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD	13	N	Roto Sil	336797
Veka Softline AD 9	9	N	Roto Sil	260368
Wymar 2500	13	N	Roto Sil	380088
Wymar 3000	13	N	Roto Sil	374157

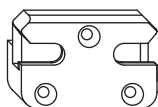


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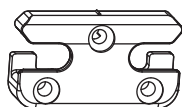
Other versions are available upon request.

9.2.2 Security

9.2.2.1 Zinc



A



B

Assignment	Meaning	Security
[A]	With base	RC 1 N, RC 2 / RC 2 N
[B]	Without base	Basic security

					Nº
Aluplast Ideal 2000 Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco LivIng 82	13	N	Roto Sil	–	331490
Aluplast Ideal 2000 LB Profile Pad Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco LivIng 82	13	Y	Roto Sil	–	260395

					Nº
Aluplast Ideal 4000	13	N	Roto Sil	–	350191
Aluplast Ideal 5000	13	Y	Roto Sil	–	257357
Schüco Corona AD					
Aluplast energeto 5000					
Aluplast energeto 5000 view					
Aluplast energeto 7000					
Aluplast energeto 8000					
Aluplast Ideal 7000					
Aluplast Ideal 8000					
Brüggmann AD 13	13	Y	Roto Sil	–	292194
Brüggmann MD 13					
Deceuninck Eforte	13	Y	Roto Sil	–	260394
Deceuninck Prestige AD					
Deceuninck Prestige MD					
Inoutic AD 13					
Inoutic MD 100					
Deceuninck Zendow	13	Y	Roto Sil	–	370072
Deceuninck Elegant					
Deceuninck Legend					
Deceuninck Klassiek	13	Y	Roto Sil	–	281632
Deceuninck Mondial VK					
Gealan Kubus	13	N	Roto Sil	–	807521
Gealan S3000	13	N	Roto Sil	–	367201
Gealan S7000	13	Y	Roto Sil	–	260393
Gealan S8000					
Gealan Linear					
Gealan S9000					
KBE 70 AD	13	Y	Roto Sil	–	289941
KBE 76	13	Y	Roto Sil	–	738471
Kömmerring 76					
Trocal 76					
KBE 88 MD					
Kömmerring 88 MD					
Trocal 88 MD					
KBE AD	9	Y	Roto Sil	–	260391
KBE MD	9	Y	Roto Sil	Right	260398
Trocal S900	9	Y	Roto Sil	Left	260397
Kömmerring Eurodur 3S	13	Y	Roto Sil	–	258303
Kömmerring 88 Plus	13	N	Roto Sil	–	334958
Kömmerring Eurofutur Classic					
Kömmerring Eurofutur Elegance					
Panorama 3000	13	Y	Roto Sil	–	281768
Plus Plan Plus Tec	13	Y	Roto Sil	–	264327
Rehau S 735 MD	13	Y	Roto Sil	–	316942
Rehau S 788	13	N	Roto Sil	–	348407
Rehau S 799 Brillant Design (S 730)					
Rehau S 969 Synego					
Rehau S 986 EuroDesign 86					
Rehau S 980 Geneo	13	Y	Roto Sil	–	496019
Roplasto 4K	13	Y	Roto Sil	–	260399
Roplasto 7001 AD					
Roplasto 7001 MD					
Salamander 2D	13	Y	Roto Sil	–	365385
Salamander 3D					
Salamander Streamline 76					
Salamander BluEvolution 82	13	Y	Roto Sil	–	260396
Schüco Corona CT70 AD					
Veka Topline AD 13					
Veka Topline MD 13					
Salamander BluEvolution 73					
Veka Softline 82 MD					
Veka Softline 76 AD					
Veka Softline 76 MD					



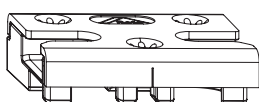
					Nº
Salamander BluEvolution 82 Schüco Corona CT70 AD Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Veka Softline 76 AD Veka Softline 76 MD	13	N	Roto Sil	–	348410
Salamander BluEvolution 92	13	Y	Roto Sil	–	601574
Salamander GreenEvolution 76	13	Y	Roto Sil	–	897080
Trocal 88+ Trocal InnoNova 2000	13	N	Roto Sil	–	290128
Veka Softline AD 9	9	Y	Roto Sil	–	260392
Wymar 3000	13	Y	Roto Sil	–	374194



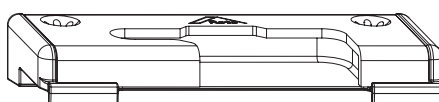
INFO

Other versions are available upon request.

9.2.2.2 Steel



A



B

Assignment	Meaning
[A]	Striker, symmetrical
[B]	Striker, right / left

					Nº
Aluplast Ideal 2000 LB Profile Pad Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco LivIng 82	13	Y	Roto Sil	–	856737
Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 4000 Aluplast energeto 8000 Aluplast Ideal 5000 Aluplast Ideal 7000 Aluplast Ideal 8000 Schüco Corona AD	13	Y	Roto Sil	–	856753
Brüggmann AD 13	13	Y	Roto Sil	Left	856757
Brüggmann MD 13	13	Y	Roto Sil	Right	856756
Inoutic AD 13 Deceuninck Eforte Inoutic Favorite AD 13 Inoutic MD 100 Deceuninck Prestige AD Deceuninck Prestige MD	13	Y	Roto Sil	–	856752
Deceuninck Elegant Deceuninck Legend Deceuninck Zendow	13	Y	Roto Sil	–	856751

					Nº
Gealan Linear Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000	13	Y	Roto Sil	–	856749
KBE AD	9	N	Roto Sil	–	857007
KBE 70 AD	13	Y	Roto Sil	Left	857004
	13	Y	Roto Sil	Right	857005
KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Trocal 76 Trocal 88 MD	13	Y	Roto Sil	–	856754
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	Y	Roto Sil	–	857003
Kömmerling Eurodur 3S Wymar 3000	13	Y	Roto Sil	–	857006
Plus Plan Plus Tec Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	Y	Roto Sil	–	856750
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	Y	Roto Sil	–	856748
Salamander BluEvolution 73 Salamander BluEvolution 82 Schüco Corona CT70 AD Veka Alphaline 90 Veka Softline 70 AD Veka Softline 76 AD Veka Softline 76 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13	13	Y	Roto Sil	–	856738
Salamander Design 2D	13	Y	Roto Sil	Left	858209
Salamander Design 3D	13	Y	Roto Sil	Right	858210
Salamander Streamline 76	13	Y	Roto Sil	Left	897003
Trocal 88+	13	Y	Roto Sil	Left	856763
Trocal InnoNova 2000	13	Y	Roto Sil	Right	856762
Trocal S900	13	Y	Roto Sil	–	858211
Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD	13	Y	Roto Sil	–	858211
Veka Softline AD 9	9	N	Roto Sil	–	856761

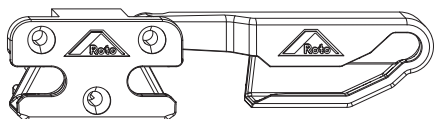


INFO

Other versions are available upon request.

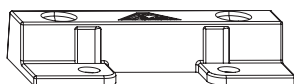


9.2.2.3 Tilt ventilation (TiltSafe)



				Nº
Aluplast Ideal 2000	13	Roto Sil	Left	816132
Schüco Corona CT70 AD	13	Roto Sil	Right	816131
Schüco Corona CT70 MD				
Schüco Corona SI82 MD				
Schüco Living 82				
Aluplast energeto 5000	13	Roto Sil	Left	795447
Aluplast energeto 5000 view	13	Roto Sil	Right	795448
Aluplast energeto 7000				
Aluplast Ideal 4000				
Aluplast Ideal 5000				
Aluplast energeto 8000				
Aluplast Ideal 8000				
Aluplast Ideal 7000				
Gealan S8000	13	Roto Sil	Left	795450
Gealan Linear	13	Roto Sil	Right	795451
Deceuninck Eforte	13	Roto Sil	Left	839325
Deceuninck Prestige AD	13	Roto Sil	Right	839327
Deceuninck Prestige MD				
Deceuninck Elegant	13	Roto Sil	Left	795445
Deceuninck Legend	13	Roto Sil	Right	795446
KBE 76				
KBE 88 MD				
Kömmerling 76				
Kömmerling 88 MD				
Trocal 76				
Trocal 88 MD				
Rehau S 730 AD	13	Roto Sil	Left	794922
Rehau S 735 MD	13	Roto Sil	Right	795449
Rehau S 788				
Rehau S 799 Brillant Design (S 730)				
Rehau S 986 EuroDesign 86				
Salamander Streamline 76	13	Roto Sil	Left	828260
	13	Roto Sil	Right	828261
Veka Topline AD 13	13	Roto Sil	Left	795443
Veka Softline 82 MD	13	Roto Sil	Right	795444
Veka Softline 76 AD				
Veka Softline 76 MD				





				Nº
Tilt ventilation protective support (TiltSafe)	Aluplast Ideal 2000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Aluplast Ideal 7000 Gealan S8000 KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Rehau S 730 AD Rehau S 799 Brillant Design (S 730) Rehau S 986 EuroDesign 86 Schüco Corona CT70 AD Schüco Corona SI82 MD Schüco Living 82 Trocal 76 Trocal 88 MD Veka Softline 82 MD Veka Topline AD 13	13	RC 2 RC 2 N	816934



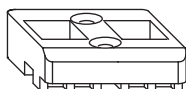
INFO

Recommended component for system testing (RC 2 / RC 2 N)

The tilt ventilation protective support (TiltSafe) reduces the area of attack on the tilt ventilation security strikers (TiltSafe) to a minimum.



9.2.3 Double-sashed window



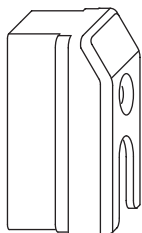
			Nº
Aluplast Ideal 2000 Schüco Corona CT70 MD Schüco Corona SI82 MD	13	Roto Sil	260439
Aluplast Ideal 4000 Aluplast Ideal 5000 Schüco Corona AD Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast energeto 8000 Aluplast Ideal 7000 Aluplast Ideal 8000	13	Roto Sil	257360
Brüggmann AD 13 Brüggmann MD 13 Salamander BluEvolution 82 Schüco Corona CT70 AD Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	13	Roto Sil	263783



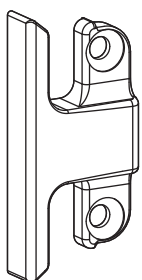
			Nº
Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic Favorite AD 13 Inoutic MD 100	13	Roto Sil	260438
Deceuninck Zendow Deceuninck Elegant Deceuninck Legend	13	Roto Sil	370177
Gealan S3000 Gealan S7000 Gealan S8000	13	Roto Sil	260437
KBE MD Tropical S900	13	Roto Sil	260442
KBE 70 AD KBE 76 Kömmerling 76 Tropical 76 KBE 88 MD Kömmerling 88 MD Tropical 88 MD	13	Roto Sil	286640
KBE AD	13	Roto Sil	485436
Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	Roto Sil	260433
Panorama 2000	9	Roto Sil	281730
Plus Plan Plus Tec	13	Roto Sil	264369
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	Roto Sil	260434
Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	Roto Sil	260443
Salamander 2D Salamander 3D Salamander Streamline 76	13	Roto Sil	260446
Salamander BluEvolution 92	13	Roto Sil	604886
Tropical InnoNova 70.A5 AD Tropical InnoNova 70.M5 MD	13	Roto Sil	263035
Tropical 88+ Tropical InnoNova 2000	13	Roto Sil	290213
Wymar 3000	13	Roto Sil	374161



9.2.4 Floating mullion

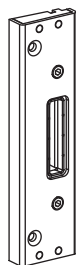


		Nº
V cam	Roto Sil	260359



		Nº
Screw-on striker for lever-operated espagnolette (variable handle height)	Roto Sil	339395

9.2.5 Hook



			Nº
Aluplast Ideal 2000 Schüco Corona CT70 AD Schüco Corona CT70 MD	Gasket compression adjustable	Roto Sil	349261
Aluplast Ideal 4000 Aluplast Ideal 5000	Gasket compression adjustable	Roto Sil	349290
Deceuninck Prestige Inoutic AD 13 Inoutic MD 100	Gasket compression adjustable	Roto Sil	350507
Deceuninck Zendow	Gasket compression adjustable	Roto Sil	382703
Gealan S3000 Gealan S7000 Gealan S8000 KBE 70 AD	Gasket compression adjustable	Roto Sil	349237
Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 986 EuroDesign 86	Gasket compression adjustable	Roto Sil	349214



			Nº
Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13	Gasket compression adjustable	Roto Sil	355675







Additional stay arms

Standard	370
TiltFirst (TF)	371
Arched window	371

Tilt stays

Frame components	372
Sash components	372
Sets	373
Mounting screw	373

Arrestable brake stays

Frame components	375
Sash components	376

Sash lifter

See page	377
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Restrictor and cleaning stays

Frame components	378
Sash components	378
Packers	379

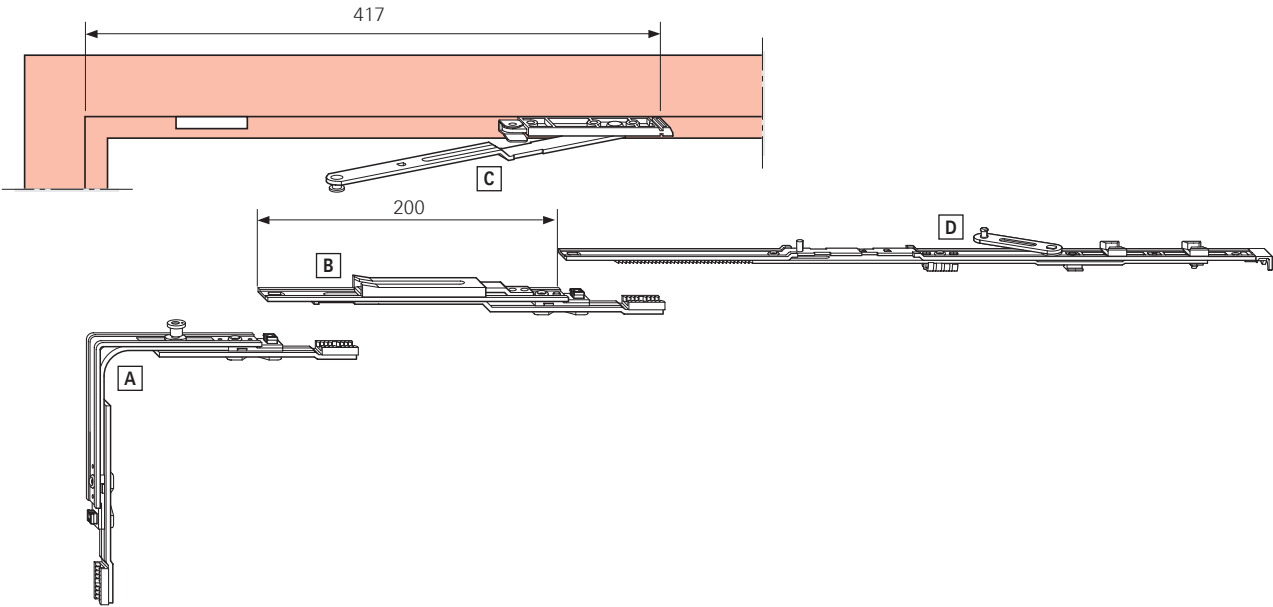
Arrestable ventilation stays

Frame components	381
Sash components	382

10 Scissor stays

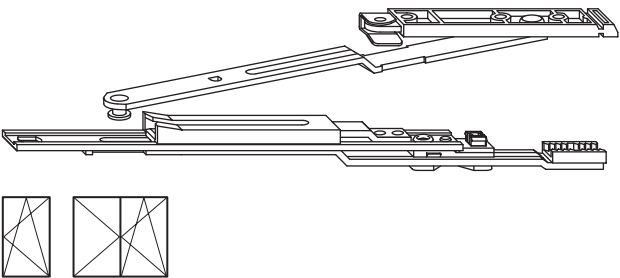
10.1 Additional stay arms

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

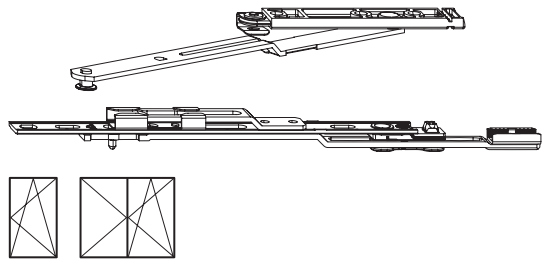


Frame and sash component	200	Roto Sil	Nº 255237

For the compatible packer, see → from page 417.



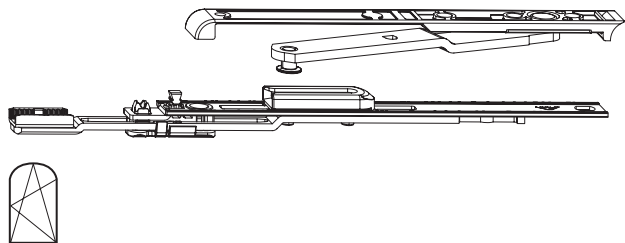
10.1.2 TiltFirst (TF)



			Nº
Frame and sash component	200	Roto Sil	292022

For the compatible packer, see → from page 417.

10.1.3 Arched window



		Nº
Frame and sash component	Roto Sil	245764



10.2 Tilt stays

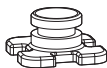
10.2.1 Frame components



		Nº
Frame component	Roto Sil	451477

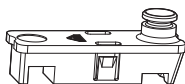
For the compatible packer, see → *from page 417*.

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 373*.



		Nº
Sash component for hardware groove	Roto Sil	451431

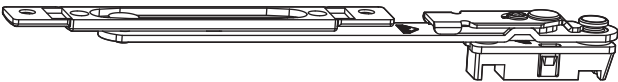


10.2.3 Sets



		Nº
Floating-mullion installation	Roto Sil	482823

For the mounting screw required for floating-mullion installation, see → *from page 373*.
For the compatible packer, see → *from page 417*.



		Nº
Hardware groove	Roto Sil	494389

10.2.4 Mounting screw

	Nº
Screw for installation on corner drive	567995



10.3 Arrestable brake stays

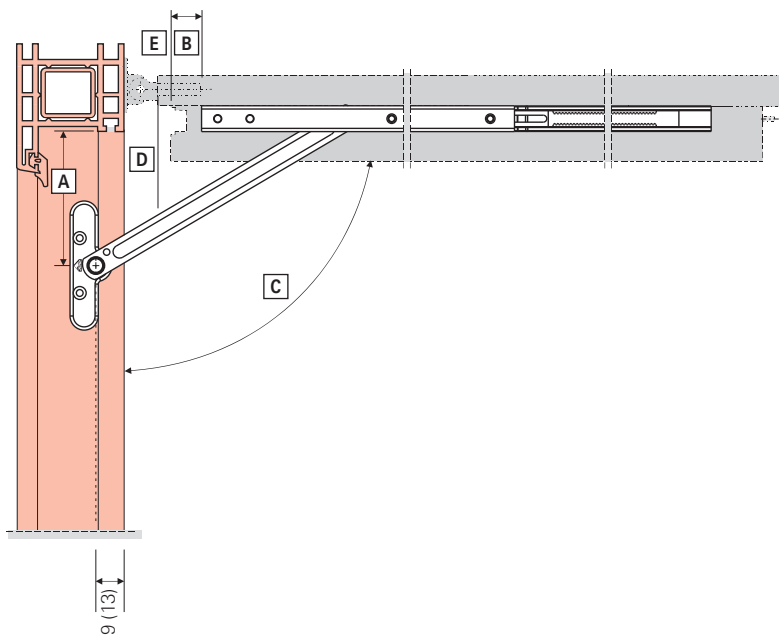


INFO

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]	Opening angle 90°
[D]	Overlap edge
[E]	Sash rebate edge

Hinge side P / K / A / A16

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 376*.

Hinge side Designo (HA 13), hinge side A16 Designo

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 376*.

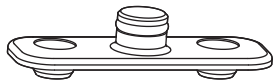


INFO

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
Aluplast Ideal 2000 Brüggmann AD 13 Brüggmann MD 13 Gealan S3000 Gealan S7000 Gealan S8000 KBE 70 AD KBE 70 MD KBE AD Kömmerling 3S Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance Plus Plan Plus Tec Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86 Salamander 2D Salamander 3D Salamander Design 2D Salamander Design 3D Salamander Streamline 76 Schüco Corona AD Schüco Corona CT70 AD Schüco Corona CT70 MD Tropical InnoNova 2000 Tropical InnoNova 70.A5 AD Tropical InnoNova 70.M5 MD Veka Softline AD 9 Veka Topline AD 13 Veka Topline MD 13 Brüggmann AD 73 Salamander BluEvolution 73 Salamander BluEvolution 82 KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 MD Tropical 76 Tropical 88 MD Salamander GreenEvolution 76	Roto Sil	477848
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000	Roto Sil	490128
Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic Favorite AD 13 Inoutic MD 100	Roto Sil	490133
Gealan Kubus	Roto Sil	807522
KBE MD Tropical S900	Roto Sil	477849
Tropical 88+ Tropical InnoNova 2000	Roto Sil	490159



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

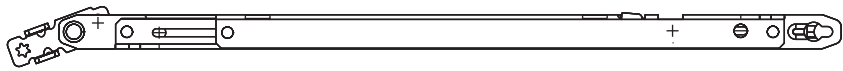


			Nº
To be used in combination with arrestable ventilation stay or arrestable brake stay		Roto Sil	795925



10.5 Restrictor and cleaning stays

10.5.1 Frame components



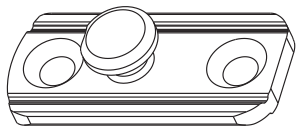
			Nº
Frame component	361 – 630	Roto Sil	347131
	631 – 1200	Roto Sil	347132

For the compatible packer, see → *from page 379*.

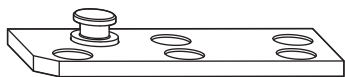
10.5.2 Sash components



			Nº
Sash bearing for hardware groove	Roto Sil	–	348277



			Nº
Sash bearing for floating-mullion installation	Roto Sil	–	632566



			Nº
Sash bearing for floating-mullion installation	Roto Sil	Left	569892
Sash bearing for floating-mullion installation	Roto Sil	Right	569893



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
		R04.1	Grey brown	347239



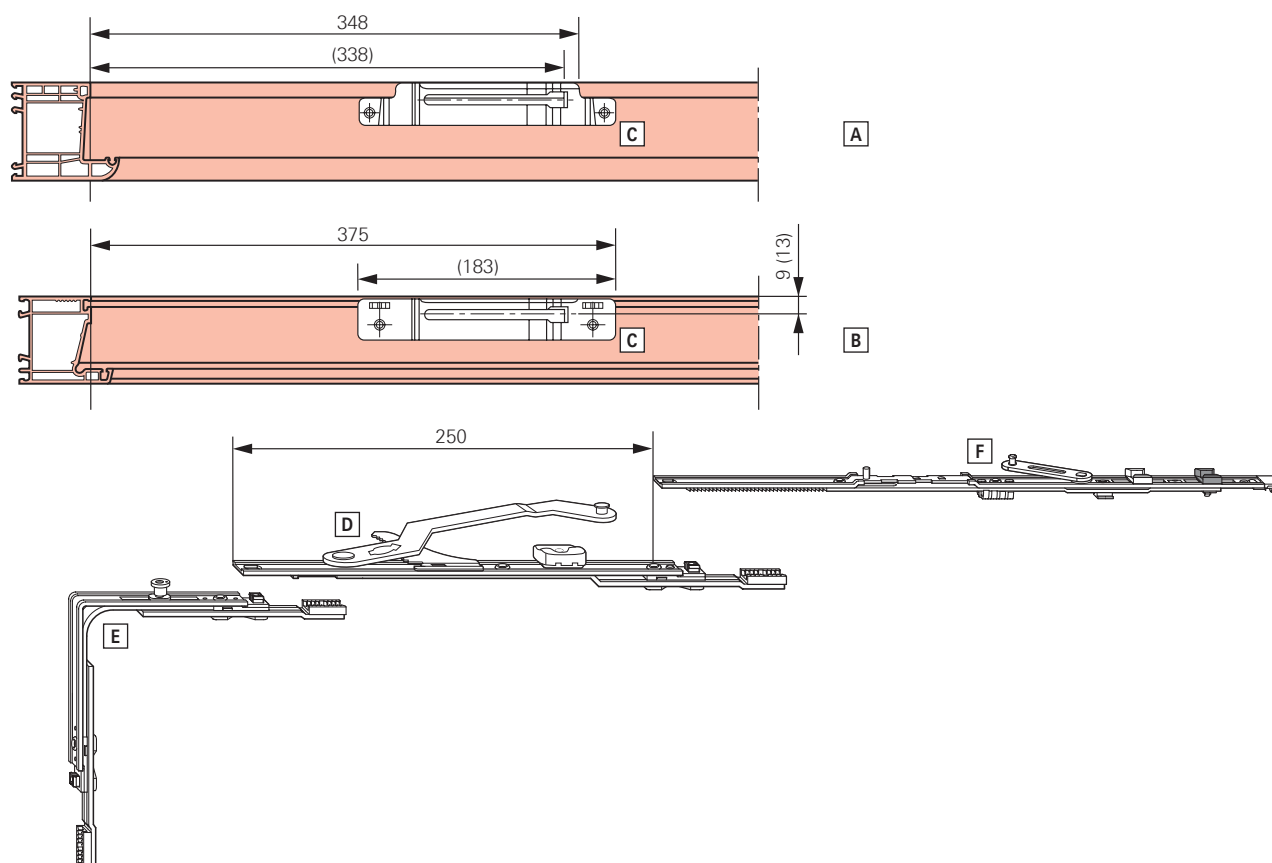
10.6 Arrestable ventilation stays



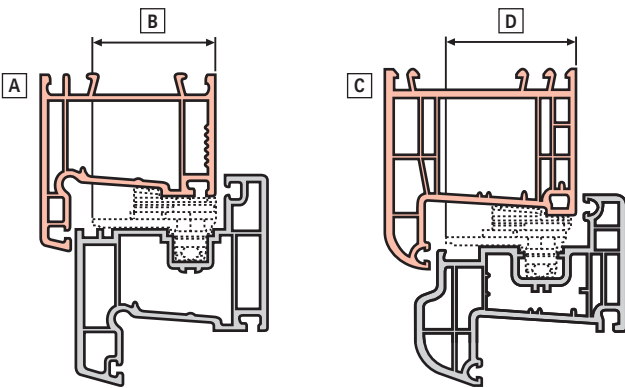
INFO

Components cannot be used in conjunction with hinge side P and hinge side T.

Installation and description



Assignment	Meaning
[A]	Installation of profile stop
[B]	Installation of profile groove
[C]	Arrestable ventilation stay, frame component
[D]	Arrestable ventilation stay, sash component
[E]	Corner drive
[F]	Stay guide without blocking device



Assignment	Meaning	Locking element
[A]	Hardware axis 9 mm	-
[B]	44 mm	No. 1
	39 mm	No. 2
	35 mm	No. 3
	30 mm	No. 4
[C]	Hardware axis 13 mm	-
[D]	48 mm	No. 1
	43 mm	No. 2
	39 mm	No. 3
	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.



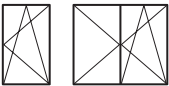
INFO
 It is not possible to install the arrestable ventilation stay in profile systems with central lip gasket.

Use of an arrestable ventilation stay depends on the sash rebate height (SRH)

Tilt depth	SRH	Locking element
80	< 500 mm	No. 3 + no. 4
140	> 500 – 600 mm	No. 3 + no. 4
	> 600 – 800 mm	No. 2 + no. 3 + no. 4
	> 800 mm	No. 1 + no. 2 + no. 3 + no. 4



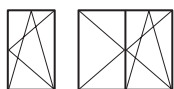
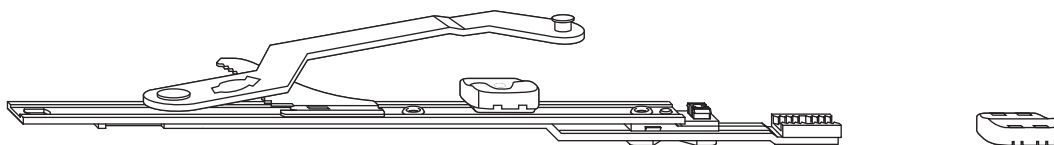
10.6.1 Frame components



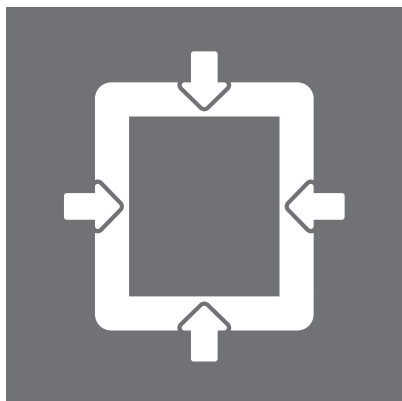
				Nº
Aluplast Ideal 2000	13	Roto Sil	Left	316887
Schüco Corona CT70 AD	13	Roto Sil	Right	316888
Schüco Corona SI82 MD				
Brüggmann AD 13	13	Roto Sil	Left	316903
Brüggmann MD 13	13	Roto Sil	Right	316904
Veka Alphaline 90				
Veka Topline AD 13				

				Nº
Deceuninck Eforte	13	Roto Sil	Left	316937
Inoutic AD 13	13	Roto Sil	Right	316938
Inoutic Favorite AD 13				
Deceuninck Zendow	13	Roto Sil	Left	316917
Gealan S3000	13	Roto Sil	Right	316918
Gealan S7000				
Gealan S8000				
KBE 70 AD				
KBE 76				
Kömmerling 76				
Roplasto 4K				
Roplasto 7001 AD				
Roplasto 7001 MD				
Trocal 76				
KBE 88 MD				
Kömmerling 88 MD				
Trocal 88 MD				
Kömmerling 88 Plus	13	Roto Sil	Left	316895
Kömmerling Eurodur 3S	13	Roto Sil	Right	316896
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Wymar 3000				
Rehau S 799 Brillant Design (S 730)	13	Roto Sil	Left	288033
	13	Roto Sil	Right	288034
Salamander 2D	13	Roto Sil	Left	316899
Salamander 3D	13	Roto Sil	Right	316900
Salamander Streamline 76				

10.6.2 Sash components



				Nº
Locking element no. 1 (12 lock-in positions)	250	Roto Sil	Left	288001
		Roto Sil	Right	288032
Locking element no. 2 (9 lock-in positions)		Roto Sil	Left	307605
		Roto Sil	Right	307606
Locking element no. 3 (7 lock-in positions)		Roto Sil	Left	315996
		Roto Sil	Right	315997
Locking element no. 4 (5 lock-in positions)		Roto Sil	Left	315998
		Roto Sil	Right	315999
Spacer cap (rebate clearance 13.5 – 15 mm)	–	–	–	281635





Bullet catches

Standard	388
Magnet	390
NTi	394

Night vents

Single-stage	396
Multi-stage	397

Lifting mishandling devices

Frame components	399
Floating mullion	401
Sash components	401

Mishandling devices

See page	402
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Turn restrictors

Turn restrictor 191	403
Turn restrictor 335 / 355	405
Turn restrictor A	407
Turn restrictor 198	409

Security components

Drilling protection – backset 8 and 15 mm	410
Drilling protection – backset 25 to 50 mm	410
Floating mullion	410
Sash components	411
Anti-jemmy device	411

Connection elements

Couplings	412
Fastening plates	412
Connecting links	412

Turn locks

Standard	413
Cylinder	413
Packers	414

Run-up blocks

See page	415
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Packers

See page	417
----------	-----

Centre closers

Hinge side P	418
Hinge side Designo (HA 13)	422

Other

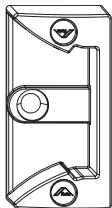
Travel restrictor	424
Cover faceplate	424
End piece for pitched stay guide	424
Anti-slam device	424
Cover cap sets – hinge side P	425
Cover caps – colour sample	425
Info clips	426
Turn and opening restrictor – TurnPlus	427
Water slot caps	428
Duo-Drill – corner welded connector	430

11 Accessories

11.1 Bullet catches

11.1.1 Standard

11.1.1.1 Frame components



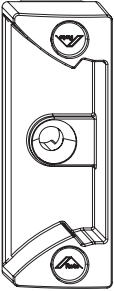
			Nº
Aluplast Ideal 2000 Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast energeto 8000 Aluplast Ideal 7000 Aluplast Ideal 8000 Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86 Salamander 2D Salamander 3D Salamander Streamline 76 Schüco Corona AD Schüco Corona CT70 AD Schüco LivIng 82	13	Roto Sil	788572
Deceuninck Arcade Deceuninck Eforte Deceuninck Prestige	13	Roto Sil	788616
Deceuninck Elegant Deceuninck Legend	13	Roto Sil	2025385
Gealan S3000 Gealan S7000 Gealan S8000 Gealan Linear Gealan S9000 Wymar 2500	13	Roto Sil	788574
Gealan Kubus	13	Roto Sil	812365



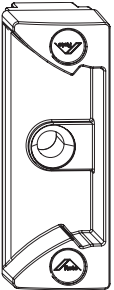


			Nº
Salamander BluEvolution 73 Salamander BluEvolution 82 KBE 70 AD KBE 76 KBE 88 MD Kömmerling 76 Kömmerling 88 Plus Kömmerling 88 MD Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance Plus Plan Plus Tec Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD Trocal 76 Trocal 88 MD Veka Softline 70 AD Veka Softline 70 MD Salamander GreenEvolution 76 Veka Topline AD 13 Veka Topline MD 13 Veka Softline 76 AD Veka Softline 76 MD	13	Roto Sil	788615
KBE AD Veka Softline AD 9	9	Roto Sil	788573

11.1.1.2 Floating mullion

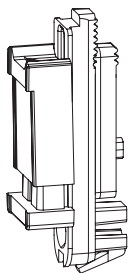


			Nº
Bullet catch for lever-operated espagnolette	Screw-on	Roto Sil	788378

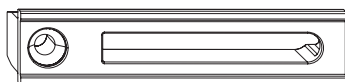


		Nº
Bullet catch for opposite hardware groove	Roto Sil	788507

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
Aluplast Ideal 2000 Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD	13	331765
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast energeto 8000 Aluplast Ideal 7000 Aluplast Ideal 8000	13	331774
Deceuninck Eforte Deceuninck Prestige MD Inoutic AD 13 Inoutic Favorite AD 13 Inoutic MD 100	13	258515



		Nº
Deceuninck Zendow KBE 70 AD KBE 76 KBE AD Kömmerling 76 Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance Trocal 76 Deceuninck Elegant Deceuninck Legend KBE 88 MD Kömmerling 88 MD Trocal 88 MD	9 13	328836
Gealan S3000 Gealan S7000 Gealan Linear	13	331764
Gealan Kubus	13	807524
KBE MD	9	328837
Kömmerling Eurodur 3S	13	245320
Panorama 3000	13	331778
Plus Plan Plus Tec	13	331768
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 986 EuroDesign 86	13	245321
Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	331767
Salamander 2D Salamander 3D Salamander BluEvolution 92	13	331769
Trocal 88+ Trocal InnoNova 2000	13	377363
Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD	13	329214
Veka Softline AD 9 Veka Topline AD 13 Veka Topline MD 13 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	9 13	245323
Wymar 3000	13	374158



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



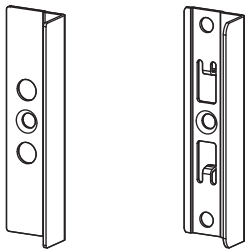
INFO

Can only be used in conjunction with magnetic bullet catch sash component.

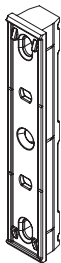




11.1.2.3 Sash components



					Nº
Magnetic bullet catch sash component		–	9	Roto Sil	244516
		–	13	Roto Sil	244517
		Clampable	13	Roto Sil	535468



				Nº
Packer for magnetic bullet catch sash component		9 13	Roto Sil	897128

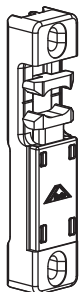


			Nº
Support for magnetic bullet catch hardware groove		Roto Sil	330080



11.1.3 NTi

11.1.3.1 Frame components



				Nº
Aluplast Ideal 2000 Aluplast Ideal 4000 Aluplast Ideal 5000 Brüggmann AD 13 Brüggmann MD 13 Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Veka Topline AD 13 Veka Topline MD 13 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000	13	Roto Sil	–	483496
Gealan S3000 Gealan S7000 Gealan S8000 KBE 76 Kömmerling 76 Trocal 76 KBE 88 MD Kömmerling 88 MD Trocal 88 MD	13	Roto Sil	–	449920
Trocal 88+	13	Roto Sil	Left	595155
Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD	13	Roto Sil	Right	595156

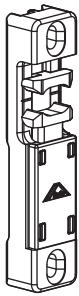


INFO

Component must be installed turned 180 degrees (Roto logo is positioned on the head).



11.1.3.2 Floating mullion

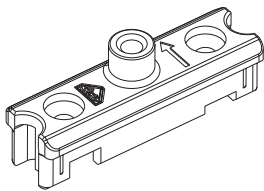


			Nº
NTi bullet catch for lever-operated espagnolette	Screw-on	Roto Sil	600642

11.1.3.3 Sash components



		Nº
Cam for NTi bullet catch (espagnolette installation)	Roto Sil	534670



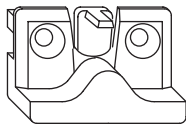
	Nº
Cam for NTi bullet catch (groove mounting)	482255



11.2 Night vents

11.2.1 Single-stage

11.2.1.1 Frame components



			Nº
Aluplast Ideal 2000 Deceuninck Zendow Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Deceuninck Elegant Deceuninck Legend Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	13	Roto Sil	260532
Aluplast Ideal 4000 Aluplast Ideal 5000 Deceuninck Klassiek Deceuninck Mondial VK Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo Rehau S 986 EuroDesign 86 Salamander 2D Salamander 3D Salamander BluEvolution 92 Salamander Streamline 76 Schüco Corona AD Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Aluplast energeto 5000 Aluplast energeto 8000 Aluplast Ideal 6000 Aluplast Ideal 8000	13	Roto Sil	260534
Brüggmann AD 13 Brüggmann MD 13	13	Roto Sil	292198
Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic MD 100	13	Roto Sil	260531
Gealan S3000 Gealan S7000 Gealan S8000 Gealan Linear	13	Roto Sil	260530
KBE AD Veka Softline AD 9	9	Roto Sil	260529
KBE MD	9	Roto Sil	260533





			Nº
KBE 70 AD KBE 76 Kömmerling 76 Plus Plan Plus Tec Trocal 76 KBE 88 MD Kömmerling 88 MD Trocal 88 MD	13	Roto Sil	263232
Kömmerling 88 Plus Kömmerling Eurodur 3S	13	Roto Sil	260528
Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD	13	Roto Sil	336815
Trocal 88+ Trocal InnoNova 2000 Trocal S900	9 13	Roto Sil	451418
Wymar 2500	13	Roto Sil	284627
Wymar 3000	13	Roto Sil	374159



INFO

The component can only be used in conjunction with a corner drive (P or V cam).

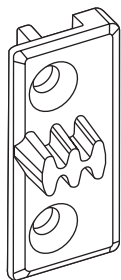
11.2.2 Multi-stage



INFO

Components cannot be used in conjunction with hinge side P and hinge side T.

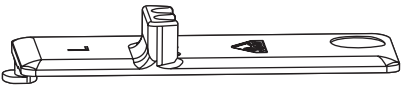
11.2.2.1 Frame components



			Nº
Aluplast Ideal 2000 KBE 76 KBE AD Kömmerling 76 Schüco Corona CT70 AD Trocal 76 Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76	13	Roto Sil	623064
Deceuninck Arcade Deceuninck Eforte Inoutic AD 13 Inoutic Favorite AD 13	13	Roto Sil	319467
Gealan S3000 Gealan S9000	13	Roto Sil	319473

			Nº
KBE 76 Kömmerling 76 Trocal 76	13	Roto Sil	623604

11.2.2.2 Floating mullion



			Nº
Floating mullion	Left	Roto Sil	449982
	Right	Roto Sil	446060

11.2.2.3 Sash components

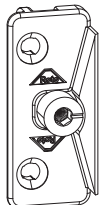
For compatible sash components, see → *from page 272*.





11.3 Lifting mishandling devices

11.3.1 Frame components



			Nº
Aluplast Ideal 2000 Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD	13	Roto Sil	260551
Aluplast Ideal 4000 Aluplast Ideal 5000 Salamander 2D Salamander 3D Salamander BluEvolution 92 Salamander Streamline 76 Schüco Corona AD Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast energeto 8000 Aluplast Ideal 7000 Aluplast Ideal 8000	13	Roto Sil	260557
Brüggmann AD 13 Brüggmann MD 13	13	Roto Sil	483117
Deceuninck Arcade Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic Favorite AD 13 Inoutic MD 100	13	Roto Sil	260550
Deceuninck Zendow Deceuninck Elegant Deceuninck Legend Deceuninck Prestige	13	Roto Sil	370175
Deceuninck Klassiek Deceuninck Mondial VK	13	Roto Sil	281636
Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000	13	Roto Sil	380118
Gealan Kubus	13	Roto Sil	807517
KBE 70 AD KBE 76 Kömmerling 76 Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD Trocal 76 KBE 88 MD Kömmerling 88 MD Trocal 88 MD	13	Roto Sil	260554
KBE AD	9	Roto Sil	260547
KBE MD Trocal S900	9	Roto Sil	260553
Kömmerling Eurodur 3S	13	Roto Sil	260545
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance Plus Plan Plus Tec	13	Roto Sil	264523



			Nº
Panorama 2000	9	Roto Sil	281728
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	Roto Sil	260546
Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Wymar 3000 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	13	Roto Sil	260552
Trocal 88+ Trocal InnoNova 2000	13	Roto Sil	290155
Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD	13	Roto Sil	336813
Veka Softline AD 9	9	Roto Sil	260548



	Nº
Insert part	534908



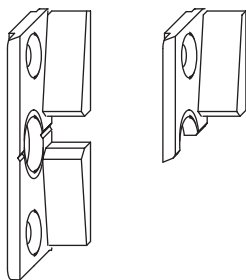
INFO

Only in conjunction with SEC striker with base (hardware axis 13).

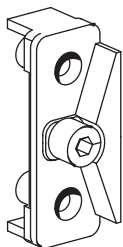




11.3.2 Floating mullion

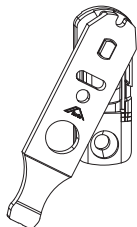


			Nº
Lifting mishandling device for lever-operated espagnolette	–	Screw-on	257600



				Nº
Lifting mishandling device for opposite hardware groove	–	Screw-on	Roto Sil	260539

11.3.3 Sash components



		Nº
Sash component for lifting mishandling device	Roto Sil	795927



11.4 Mishandling devices



			Nº
Sash	9	Left	736752
		Right	736753
	13	Left	736754
		Right	736765





11.5 Turn restrictors

11.5.1 Turn restrictor 191

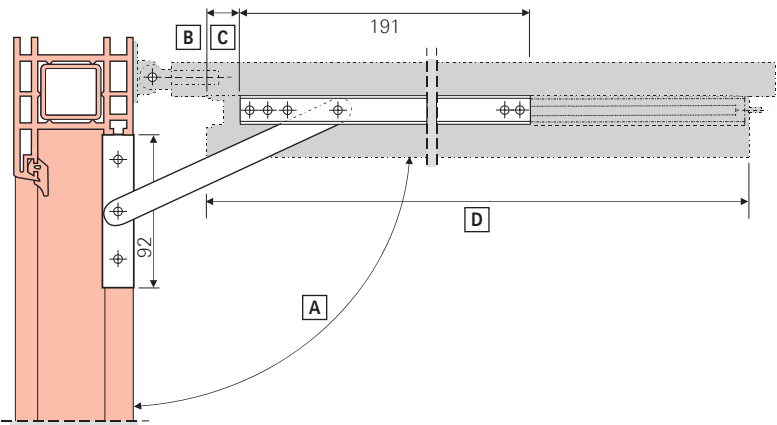


INFO

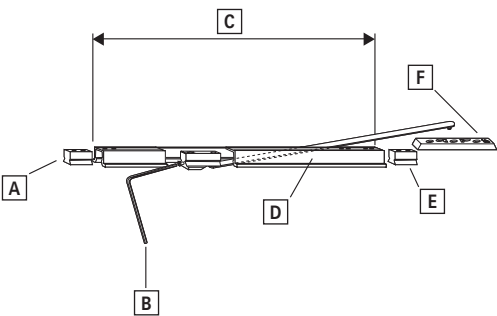
Comfort component

Not a security component in accordance with DIN EN 13126-5

Installation and description



Assignment	Meaning
[A]	Opening angle $90^\circ \pm 3^\circ$
[B]	Sash rebate edge
[C]	Installation dimensions Sash: 37 mm
[D]	Sash rebate width (SRW) 240 ^[7] – 660 mm



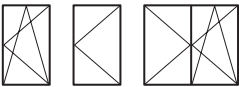
Assignment	Meaning
[A]	Stop
[B]	Brake which can be adjusted with size 4 hex key
[C]	191 mm
[D]	Aluminium guide track on the sash
[E]	Stop
[F]	Bearing which can be screwed onto the frame

For compatible corner hinges, see → *from page 337*.

For compatible pivot rests, see → *from page 339*.

[7] Minimum dimensions when using the T&T corner drive: 430 mm

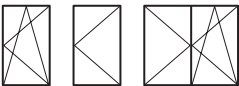
11.5.1.1 Frame components



			Nº
Bearing	Screw-on	Roto Sil	264625

For the compatible packer, see → from page 417.

11.5.1.2 Sash components



		Nº
Turn restrictor 191 (12 mm rebate clearance)	Roto Sil	260564



INFO
Selectable final position and continuously adjustable brake.





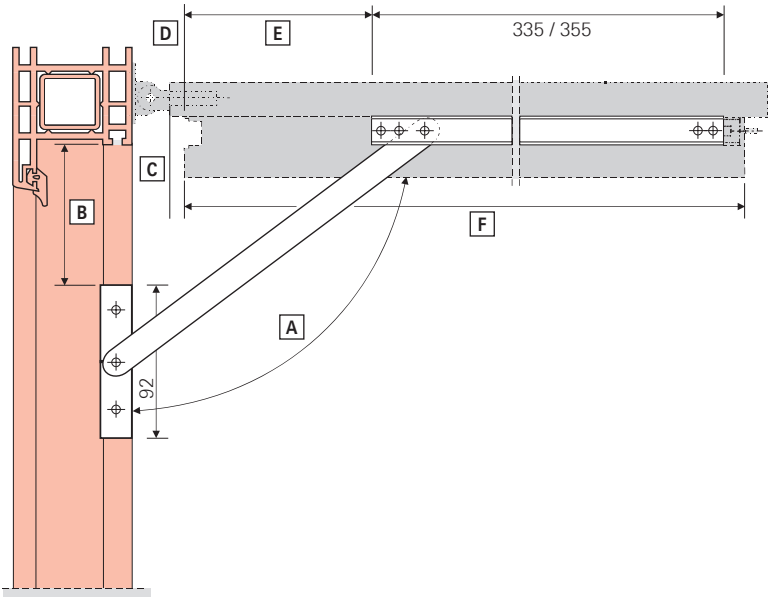
11.5.2 Turn restrictor 335 / 355



INFO Comfort component

Not a security component in accordance with DIN EN 13126-5

Installation and description



Assignment	Meaning	
[A]	Opening angle $90^\circ \pm 3^\circ$	Opening angle at stop number 1: 65° / 2: 80° / 3: 90°
[B]	Installation dimension Frame: 100 mm	
[C]	Overlap edge	
[D]	Sash rebate edge	
[E]	Installation dimension Sash: 105 mm (turn restrictor 355) Sash: 125 mm (turn restrictor 335)	
[F]	Sash rebate width (SRW) Min. 475 mm ^[8]	

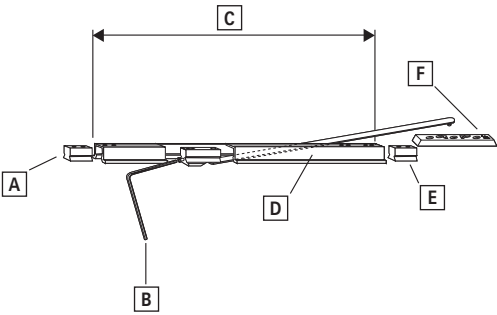


INFO

1. The numbers 1, 2 and 3 are punched (marked) in the guide duct.
2. The PVC stop block on the axis side is pushed onto the pre-punched screw holes numbered 1, 2, or 3 and secured in position.



[8] Minimum dimension when using the T&T corner drive: 661 mm

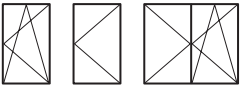


Assignment	Meaning
[A]	Stop
[B]	Brake which can be adjusted with size 4 hex key
[C]	335 mm (turn restrictor 335) 355 mm (turn restrictor 355)
[D]	Aluminium guide track on the sash
[E]	Stop
[F]	Bearing which can be screwed onto the frame

For compatible corner hinges, see → *from page 337*.

For compatible pivot rests, see → *from page 339*.

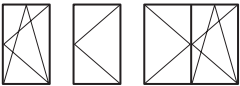
11.5.2.1 Frame components



			Nº
Bearing	Screw-on	Roto Sil	264625

For the compatible packer, see → *from page 417*.

11.5.2.2 Sash components



				Nº
Turn restrictor 335	12	Selectable final position	Roto Sil	260565
Turn restrictor 355	12	Spring-loaded final position	Roto Sil	772326



INFO
Continuously adjustable brake.



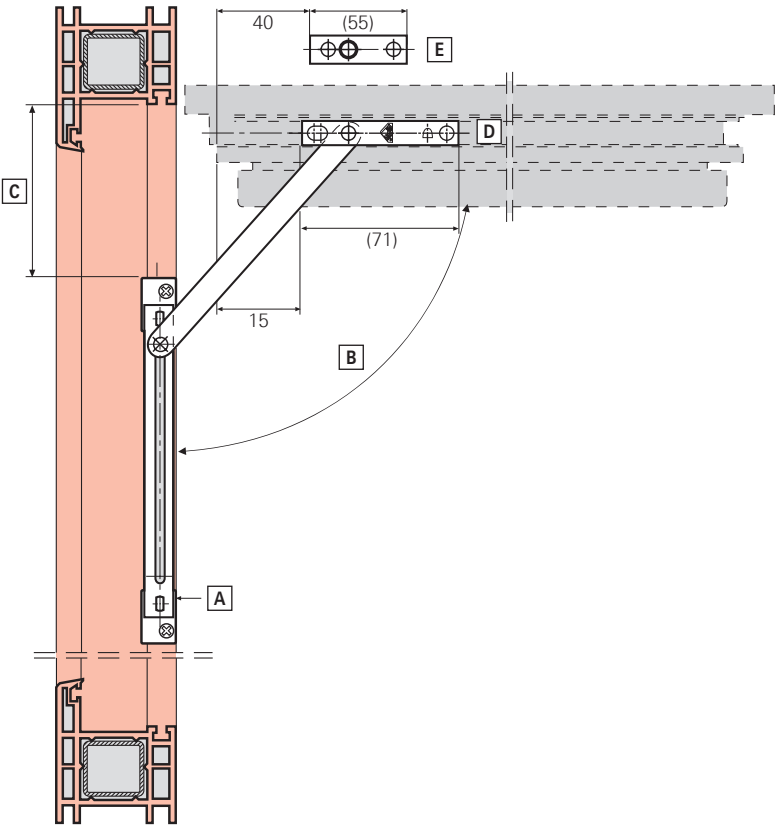
11.5.3 Turn restrictor A



INFO
Comfort component

Not a security component in accordance with DIN EN 13126-5

Installation and description



Assignment	Meaning	System
[A]	Frame track	–
[B]	Opening angle 90° ± 5°	–
[C]	Distance	–
	82 mm	12/18-9
	80 mm	12/20-9
	86 mm	12/18-13
	82 mm	12/20-13
[D]	Sash component for rebate corner hinge A / E5 with groove guidance (dimension 15)	–
[E]	Sash component for hardware groove (dimension 40)	–

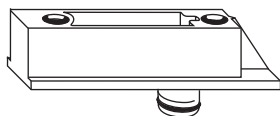


11.5.3.1 Frame components



			Nº
Aluplast Ideal 2000 Brüggmann AD 13 Brüggmann MD 13 Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	13	Roto Sil	260570
Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic MD 100	13	Roto Sil	259633
Gealan S3000 Gealan S7000 Gealan S8000 Gealan Linear KBE 76 Kömmerling 76 Trocal 76	13	Roto Sil	259638
Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	Roto Sil	260567
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	Roto Sil	260568
Salamander 2D Salamander 3D Salamander Streamline 76	13	Roto Sil	259637
Trocal 88+ Trocal InnoNova 2000	13	Roto Sil	483505

11.5.3.2 Sash components



			Nº
Hardware groove	–	Roto Sil	260562



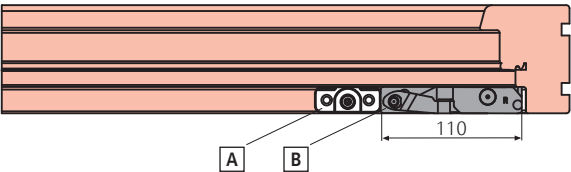
11.5.4 Turn restrictor 198



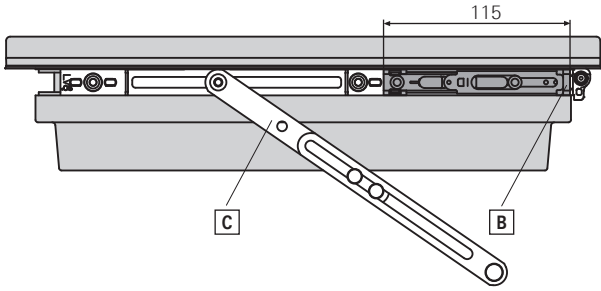
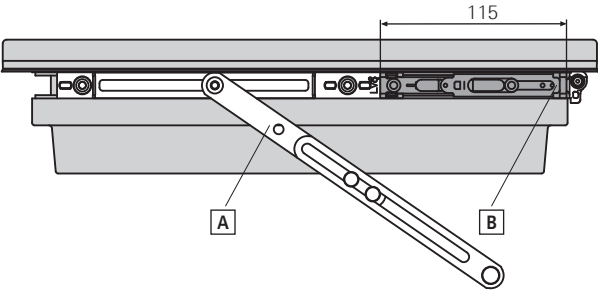
INFO Comfort component

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)

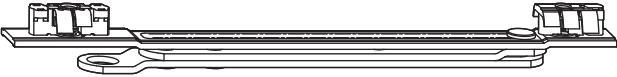


Assignment	Meaning
[A]	Turn restrictor sash component – 90° opening (HA 9)
[B]	Corner hinge Designo (HA 9) or Designo (HA 13)
[C]	Turn restrictor sash component 100° opening (HA 9) Turn restrictor sash component 90° opening (HA 13)

11.5.4.1 Frame components

For compatible frame components, see → *from page 375*.

11.5.4.2 Sash components

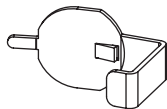


		Nº
Designo hinge side	Roto Sil	485591



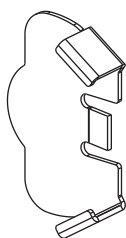
11.6 Security components

11.6.1 Drilling protection – backset 8 and 15 mm



	Nº
Drilling protection	797819

11.6.2 Drilling protection – backset 25 to 50 mm

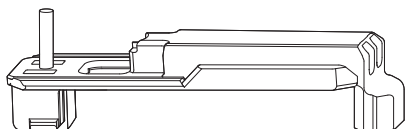


	Nº
Drilling protection	788334

11.6.3 Floating mullion



		Nº
Retainer clasp for lever-operated espagnolette	Roto Sil	314203



	Nº
Retaining element for floating-mullion sash	552392

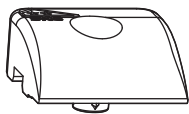


INFO

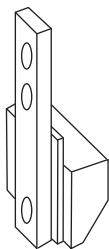
Can only be used in combination with lever-operated espagnolette, standard.



11.6.4 Sash components

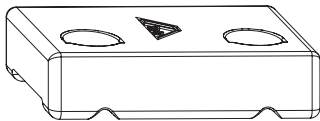


		Nº
Security component for filling the rebate clearance (floating-mullion installation)		601500



		Nº
Additional security component (centre lock)		609838

11.6.5 Anti-jemmy device



			Nº
Anti-jemmy device	9 13	RC 1 N RC 2 RC 2 N RC 3	811715



11.7 Connection elements

11.7.1 Couplings



						Nº
Coupling 344	344	100 / 100	1	V	Roto Sil	572665



						Nº
Coupling 450	450	200	1	V	Roto Sil	787089

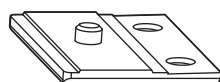


		Nº
Triangular window coupling	Roto Sil	264606

11.7.2 Fastening plates



		Nº
Fastening plate without cam	Roto Sil	487264



		Nº
Fastening plate with cam	Roto Sil	255211

11.7.3 Connecting links

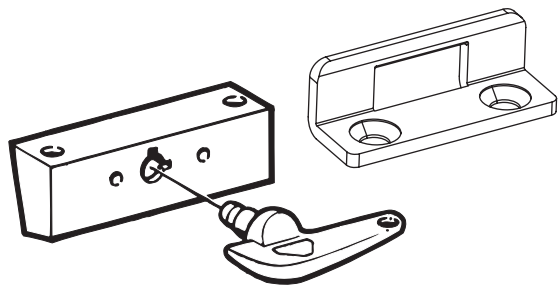


		Nº
Connecting link	Roto Sil	350401



11.8 Turn locks

11.8.1 Standard



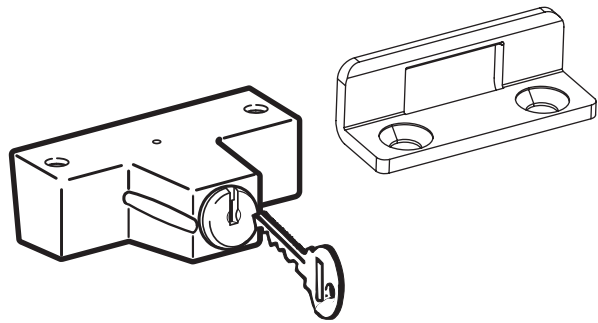
			Nº
Housing and angular bracket	Screw-on	Roto Sil	287575
		White	230157
		Brown	230160
Key	–	Roto Sil	287577
		White	230149
		Brown	230150



INFO

The maximum overlap height is 20 mm.

11.8.2 Cylinder



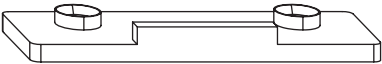
			Nº
Housing and angular bracket	Screw-on	Roto Sil	257070
		White	230153
		Brown	230152
Key set with ring	–	Nickel-plated	208248



11.8.3 Packers



		Nº
Housing (5° inclination)	Roto Sil	287578
	White	230155
	Brown	230158

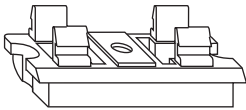


		Nº
Angular bracket (2 mm)	Roto Sil	287579
	White	230156
	Brown	230159
Angular bracket (4 mm)	Roto Sil	475594

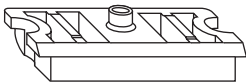




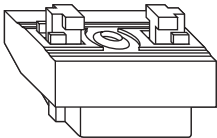
11.9 Run-up blocks



			Nº
Run-up block for groove mounting	Sash	12	770686



			Nº
Run-up block for floating-mullion installation	Sash	12	770685

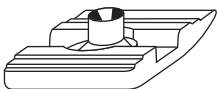


		Nº
Run-up block with mishandling device	Sash	307050

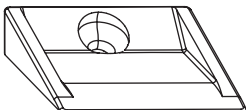


INFO

Only use the run-up block in conjunction with the T&T espagnolette – comfort.

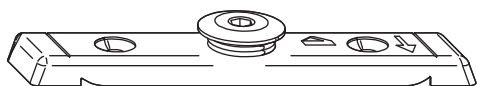


				Nº
Rebate run-up block	Sash	12	18	563829
		12	21	350402
		13	21	350403



		Nº
Run-up plate for adjustable rebate run-up block	Sash	771035

For compatible frame components, see below.



				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 415*.

For the compatible packer, see → *from page 417*.



				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 packer, see → *from page 417*.

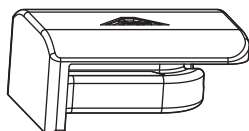


					Nº
Rebate run-up block for threshold (rebate clearance 4 / 10 / 12 mm)	Frame	Can be routed in	Height adjustable	Grey Black	772947 800136

Rebate clearance **4 mm**: for the compatible sash component, see "Run-up plate for adjustable rebate run-up block" → *from page 415*.

Rebate clearance **10 mm**: for the compatible sash component, see "Security component for filling the rebate clearance" → *from page 411*.

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 415*.



			Nº
Rebate run-up block	Frame	Insertable	609211



INFO

Only in conjunction with symmetrical SEC striker (13 mm hardware axis).



11.10 Packers



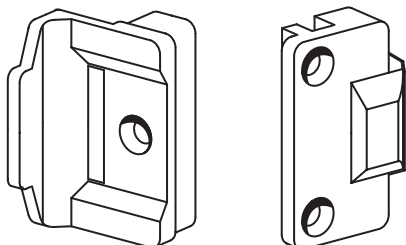
		№
Frame	Alphacan Master AD 13 Deceuninck Klassiek Salamander 2D Salamander 3D Salamander Streamline 76 Schüco Corona AD Aluplast energeto 5000 Aluplast energeto 8000 Aluplast Ideal 8000 Gealan Kubus	294365
	Aluplast Ideal 2000 Brüggmann AD 13 Salamander BluEvolution 82 Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Trocal InnoNova 70.A5 AD Trocal InnoNova 70.M5 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander GreenEvolution 76	294364
	Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 7000	773527
	Brüggmann MD 13 Wymar 2500	287070
	Deceuninck Eforte Deceuninck Prestige Inoutic AD 13 Inoutic Favorite AD 13 Inoutic MD 100	294369
	Deceuninck Zendow Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD Deceuninck Elegant Deceuninck Legend	294469
	Deceuninck Mondial VK	477327
	Gealan S3000 Gealan S7000 Gealan S8000 KBE 76 Kömmerling 76 Trocal 76 KBE 88 MD Kömmerling 88 MD Trocal 88 MD	294370
	KBE AD	294439
	KBE MD Trocal 88+ Trocal InnoNova 2000 Trocal S900	294463
	KBE 70 AD Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	294464



11.11 Centre closers

11.11.1 Hinge side P

11.11.1.1 Concealed



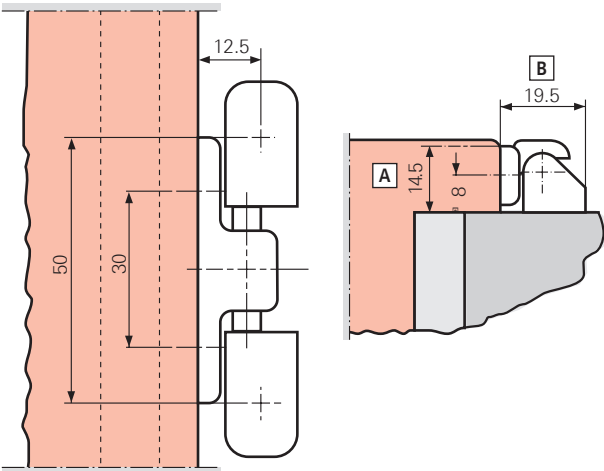
				Nº
Sash	–	No. 7	–	313087
Frame	Gealan Kubus		13	807525
Sash	–	No. 11	–	264212
Frame	Trocal 88+ Trocal InnoNova 2000		13	290158
Sash	–	No. 12	9 13	331483
Frame	Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic Favorite AD 13 Inoutic MD 100 Kömmerling 88 Plus		13	264234
Sash	–	No. 13	–	331484
Frame	Schüco Corona CT70 MD Aluplast Ideal 2000 Aluplast Ideal 4000 Aluplast Ideal 5000 Schüco Corona AD Aluplast energeto 5000 Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast energeto 8000 Aluplast Ideal 7000 Aluplast Ideal 8000 Brüggmann AD 13 Brüggmann MD 13 Brüggmann MD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Deceuninck Zendow Deceuninck Elegant Deceuninck Legend KBE 70 MD Rehau S 735 MD Rehau S 788 Salamander 2D Salamander 3D Salamander BluEvolution 92 Salamander Streamline 76 Wymar 3000		13	257351
			13	280394
			13	284093
			13	370176
			13	348512
			13	264227
			13	262159
			13	374162



				Nº
Sash	–	No. 14	–	331485
Frame	Aluplast Ideal 2000 Schüco Corona SI82 MD		13	264236
	Deceuninck Klassiek Deceuninck Mondial VK		13	295042
	Gealan S3000 Gealan S8000 Gealan Linear		13	264230
	KBE 70 AD Plus Plan Plus Tec KBE 88 MD Kömmerling 88 MD Trocacal 88 MD		13	264254
	KBE AD		9	250727
	Kömmerling Eurodur 3S		13	250726
	Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance		13	334961
	Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo Rehau S 986 EuroDesign 86		13	250725
	KBE 76 Kömmerling 76 Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD Trocacal 76		13	264249
	Schüco Corona CT70 AD Veka Alphaline 90 Veka Topline AD 13 Veka Softline 76 AD Veka Softline 76 MD		13	250728
	Veka Softline AD 9		9	250729
Sash	–	No. 15	–	264218
Frame	Brüggmann MD 13		13	482754
	Trocacal InnoNova 70.A5 AD Trocacal InnoNova 70.M5 MD		13	565260

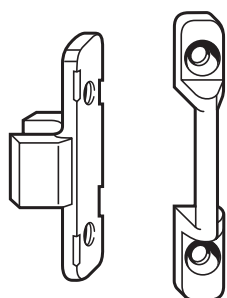
11.11.1.2 Screw-on

Installation and description



Assignment	Meaning
[A]	Minimum overlap height

Assignment	Meaning
[B]	Side clearance



			Nº
Sash	–	Roto Sil	281639
	Overlap gasket	Roto Sil	449785
Frame	–	Roto Sil	281638

For compatible cover caps, see → *from page 420* and → *from page 421*.

11.11.1.3 Cover caps – sash



		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





11.11.1.4 Cover caps – frame



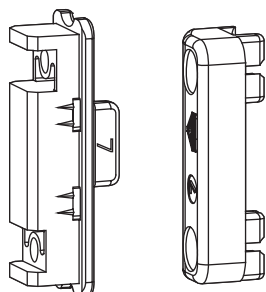
		Nº
R01.1	Natural silver	229858
R01.2	Nickel silver	229859
R01.3	Titanium	329890
R03.1	Brass matt	642347
R03.2	Brass, polished	229890
R04.1	Grey brown	213798
R04.3	Olive brown	229856
R04.4	Black brown	208602
R05.3	Medium bronze	811477
R05.5	Bronze	637874
R07.2	Traffic white	208598
SF	Special colour	229891



11.11.2 Hinge side Designo (HA 13)

11.11.2.1 Concealed

Adjustable



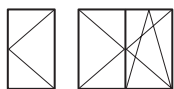
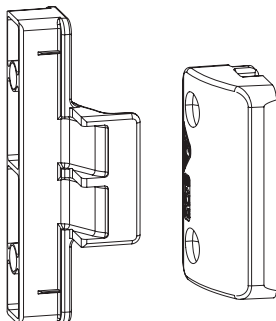
				Nº
Sash	–	9 13	Adjustable	450984
Frame	Aluplast Ideal 2000 Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 8000 Schüco Corona AD Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 7000	13	–	630577
	Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13 Salamander BluEvolution 73 Salamander BluEvolution 82 Salamander GreenEvolution 76 Veka Softline 76 AD Veka Softline 76 MD	13	–	606607
	Deceuninck Eforte Deceuninck Prestige AD Deceuninck Prestige MD Inoutic AD 13 Inoutic MD 100	13	–	741080
	Gealan Kubus	13	–	807526
	Gealan S3000 Gealan S7000 Gealan S8000	13	–	606608
	KBE 76 Kömmerling 76 Trocal 76 Deceuninck Elegant Deceuninck Legend KBE 88 MD Kömmerling 88 MD Trocal 88 MD	13	–	741078





				Nº
Frame	Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	–	606605
	Rehau Nordic Design	13	–	606609
	Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo	13	–	606606
	Salamander 2D Salamander 3D Salamander Streamline 76	13	–	765363
	Trocal 88+ Trocal InnoNova 2000	13	–	741079

Not adjustable

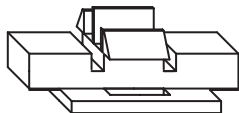


				Nº
Sash	–	–	Not adjustable	640436
Frame	Aluplast energeto 5000 view Aluplast energeto 7000 Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 7000	13	–	640438
	Veka Softline 70 AD Veka Softline 82 MD Veka Topline AD 13 Veka Topline MD 13	13	–	640437



11.12 Other

11.12.1 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

11.12.2 Cover faceplate



			Nº
2015	10 mounting holes	Roto Sil	287483
105	1 mounting hole	Roto Sil	296064

11.12.3 End piece for pitched stay guide



		Nº
Pitched stay guide end piece	Roto Sil	246734

11.12.4 Anti-slam device



	Nº
Anti-slam device Designo (HA 9 / HA 13) – tilt depth 80 mm	487206



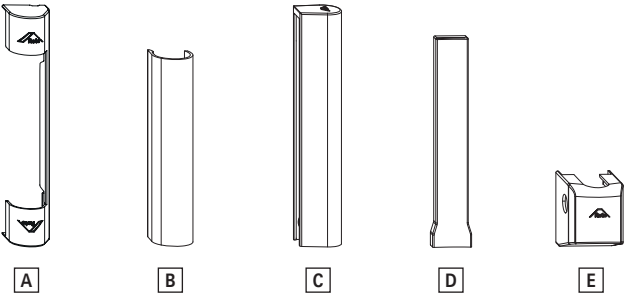
INFO

Can only be used with stay guide Designo (HA 9 / HA 13) – basic security. See → *from page 282*.



11.12.5 Cover cap sets – hinge side P

Stay arm without link



Assignment	Meaning
[A]	Stay bearing – standard (P 3/130 and P 6/130)
[B]	Stay arm – standard / TiltFirst (TF) / pitched window (SF) without link, Turn-Only / Tilt-Only rebate hinge
[C]	Corner hinge – standard
[D]	Pivot rest – link
[E]	Pivot rest – standard

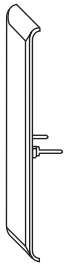
		Nº
R01.1	Natural silver	861439
R01.2	Nickel silver	861445
R01.3	Titanium	861446
R03.1	Brass matt	861447
R03.2	Brass, polished	861448
R04.1	Grey brown	861449
R04.3	Olive brown	861450
R04.4	Black brown	861451
R05.3	Medium bronze	861452
R05.5	Bronze	861453
R07.2	Traffic white	861454
R07.3	Cream	861456

11.12.6 Cover caps – colour sample

	Nº
Cover caps – colour sample	2006486



11.12.7 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

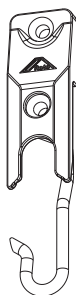
If an info clip with a single-colour or two-colour print is ordered, please attach the print template in a format of approximately 15 x 40 mm.





11.12.8 Turn and opening restrictor – TurnPlus

Frame components



			Nº
Lever	Roto Sil	Left	630502
	Roto Sil	Right	630501

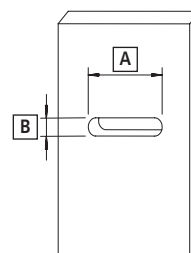
For the compatible packer, see → *from page 417*.



INFO
No additional sash component is required. A V cam of a component is used as the sash component.

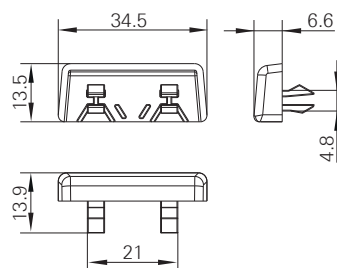


11.12.9 Water slot caps



Assignment	Meaning	Symbol
[A]	Width of slot	
[B]	Height of slot	

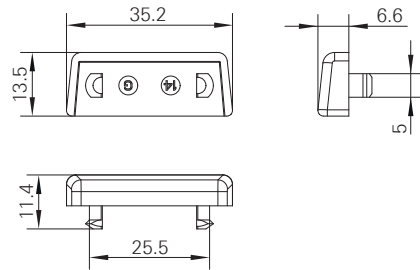
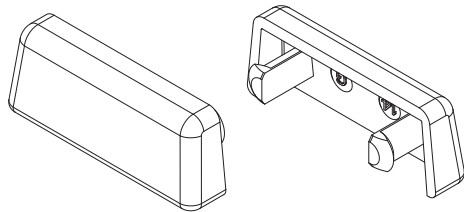
Can be clipped on horizontally, 25 mm



				Nº
25	5	RAL 1019	Grey beige	820840
		RAL 7001	Silver grey	811436
		RAL 7012	Basalt grey	811439
		RAL 7015	Slate grey	811441
		RAL 7016	Anthracite grey	811429
		RAL 7021	Black grey	811427
		RAL 7038	Achat grey	811428
		RAL 7039	Quartz grey	811440
		RAL 8001	Ochre brown	811431
		RAL 8003	Clay brown	811438
		RAL 8008	Olive brown	811434
		RAL 8014	Sepia brown	811437
		RAL 8016	Mahogany brown	811430
		RAL 8017	Chocolate brown	811432
		RAL 8019	Grey brown	811425
		RAL 8022	Black brown	811433
		RAL 9001	Cream	811435
		RAL 9005	Jet black	811426
		RAL 9016	Traffic white	811234

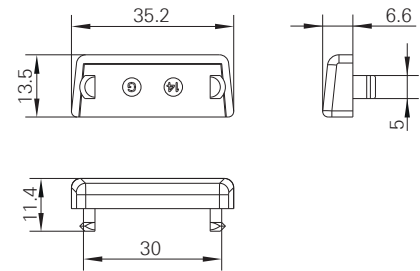
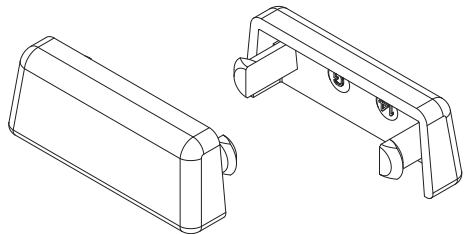


Can be clipped on at the side, 25 mm



				Nº
25	5	RAL 9016	Traffic white	538748
		RAL 8019	Grey brown	538751
		RAL 9005	Jet black	538753

Can be clipped on at the side, 30 mm



				Nº
30	5	RAL 9016	Traffic white	538756
		RAL 8077	Dark brown	538757



11.12.10 Duo-Drill – corner welded connector

11.12.10.1 Corner welded connector



Product description

- Four-sided tensioning in the corner area of the reinforcement
- Effective absorption of torsional forces thanks to force-fit connection between reinforcement and welded connector
- Eccentric insert installed such that it can be tightened
- High strength thanks to large welded surfaces
- Alignment and tensioning using assembly handle

Scope of delivery

- Set: 8 corner welded connectors (PVC)

						Nº
Duo-Drill corner welded connector	External dimensions of reinforcement: 40 x 40 x 2	RAL 9016	Traffic white	10 Set(s)	539159	
	External dimensions of reinforcement: 41 x 36 x 2	RAL 9016	Traffic white	10 Set(s)	539316	
	External dimensions of reinforcement: 45 x 45 x 2	RAL 9016	Traffic white	10 Set(s)	539543	
	External dimensions of reinforcement: 50 x 40 x 2	RAL 9016	Traffic white	10 Set(s)	539145	
	External dimensions of reinforcement: 50 x 45 x 2	RAL 9016	Traffic white	10 Set(s)	539288	
	External dimensions of reinforcement: 55 x 40 x 2; 55 x 41 x 2.5	RAL 9016	Traffic white	10 Set(s)	539308	
	External dimensions of reinforcement: 58 x 42 x 2	RAL 9016	Traffic white	10 Set(s)	539289	
	External dimensions of reinforcement: 60 x 40 x 2	RAL 9016	Traffic white	10 Set(s)	539146	
	External dimensions of reinforcement: 60 x 40 x 3	RAL 9016	Traffic white	10 Set(s)	539309	
	External dimensions of reinforcement: 60 x 46 x 2	RAL 9016	Traffic white	10 Set(s)	539621	
	External dimensions of reinforcement: 60 x 46 x 3	RAL 9016	Traffic white	10 Set(s)	540196	
	External dimensions of reinforcement: 65 x 45 x 2	RAL 9016	Traffic white	10 Set(s)	539236	
	External dimensions of reinforcement: 65 x 45 x 3	RAL 9016	Traffic white	10 Set(s)	539620	



11.12.10.2 Assembly tool



		Nº
Duo-Drill assembly tool	1 Piece(s)	539224

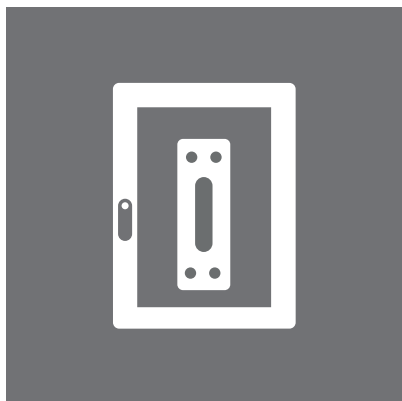


Not assembled



Assembled







Drilling jigs

Stay bearing, standard, and pivot rest	436
Stay bearing, adjustable	436
Corner hinges	436
Turn-Only / Tilt-Only overlap hinge	437

Positioning jigs

T&T espagnolette – fixed handle height	438
T&T espagnolette – centred / variable handle height	441
Turn-Only / Tilt-Only espagnolette – fixed handle height	444

Marking jig

See page	445
----------	-----

Punches

Hydropneumatic punch – DUO	446
Pneumatic punch – PS 100	447
Hand lever punch – HS	447

Tools

Adjustment tools	448
Hex keys	448
Extractor handle	448
Double open-ended spanner	449

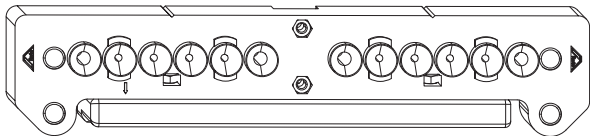
Roto NX / NT grease

See page	450
----------	-----

12 Jigs / tools

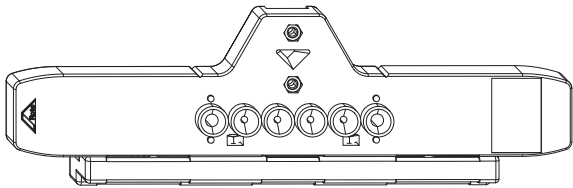
12.1 Drilling jigs

12.1.1 Stay bearing, standard, and pivot rest



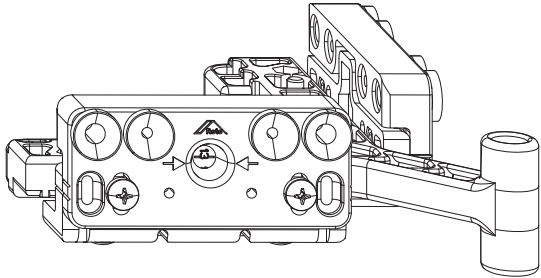
			Nº
			
Stay bearing, standard, and pivot rest		P 3/130	230727
		P 6/130	788436
		P 6/150	

12.1.2 Stay bearing, adjustable



			Nº
			
Stay bearing, adjustable – arched window		P 3/100	2002405
		P 6/100	2002406
Stay bearing, adjustable – Tilt-Only sash		P 3/100	2002103
		P 6/100	2002404

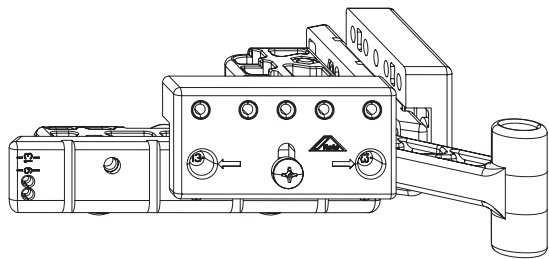
12.1.3 Corner hinges



			Nº
			
Corner hinge, height adjustable		P 6/150	788438
Corner hinge, height and gasket-compression adjustable		P 6/150	788503



12.1.4 Turn-Only / Tilt-Only overlap hinge

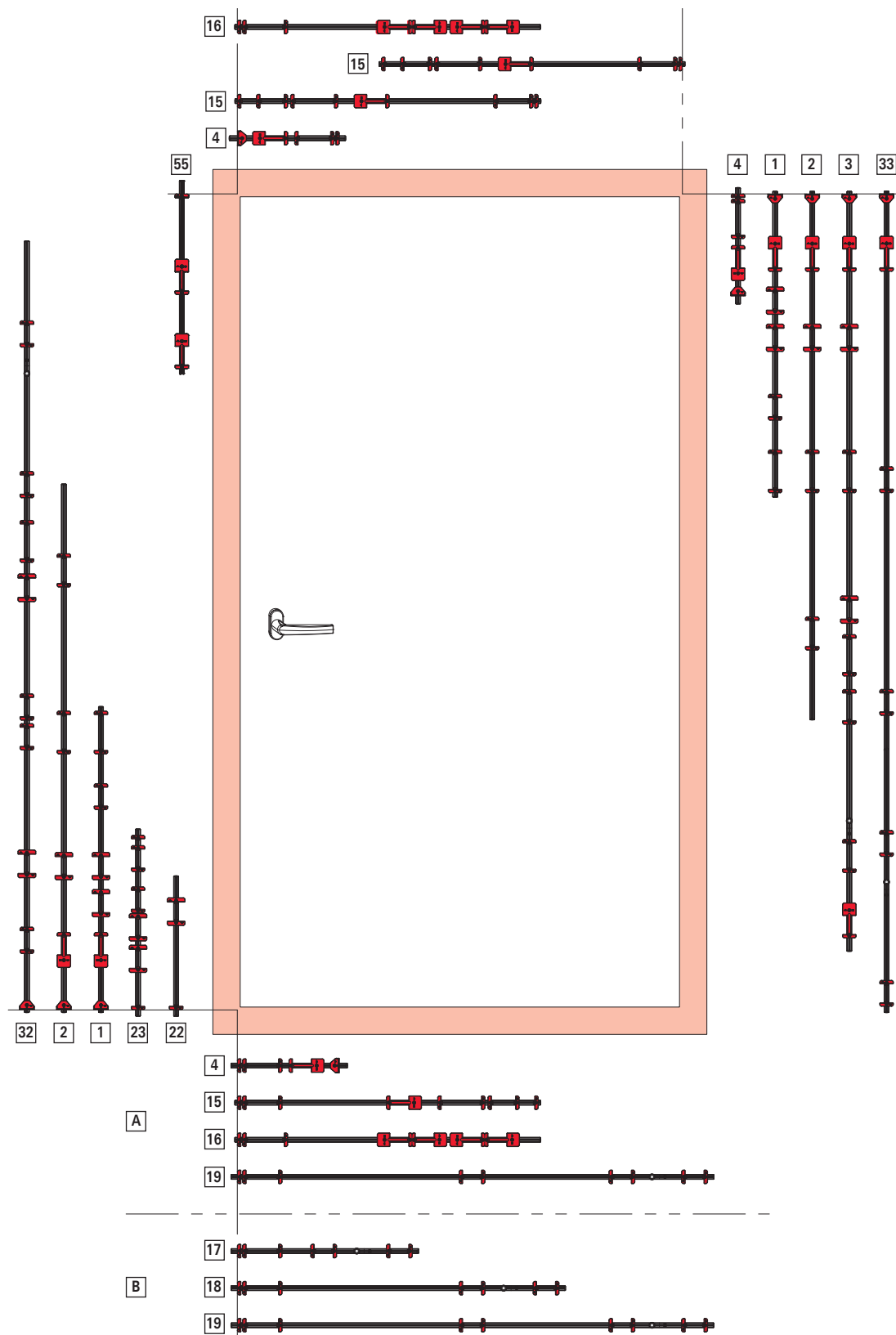


		Nº
Turn-Only / Tilt-Only overlap hinge		795268



12.2 Positioning jigs

12.2.1 T&T espagnolette – fixed handle height



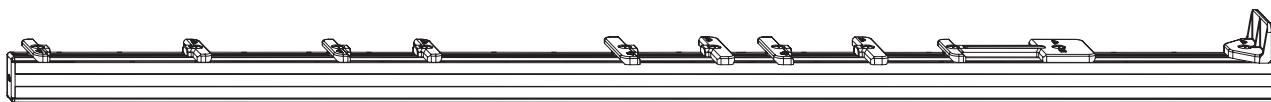


[A] BSec

[B] RC 1 N

Assignment	Position	Application range	T&T		T-O	Single jig
			BSec	RC 1 N	BSec	
[22]	Espagnolette side	SRH 511 – 710 mm	■	■	■	Standard → <i>from page 439</i>
[23]		SRH 601 – 800 mm	■	■	■	
[1]		SRH 801 – 1400 mm	■	■	■	
[2]		SRH 1401 – 1600 mm	■	■	■	
[32]		SRH 1601 – 2800 mm	■	■	■	
[55]		SRH 2401 – 2800 mm	■	■	■	
[4]	Hinge side	SRH 280 – 800 mm	■	■	–	Tilt striker / corner drive → <i>from page 440</i>
[1]		SRH 801 – 1400 mm	■	■	■	Standard → <i>from page 439</i>
[2]		SRH 1401 – 1800 mm	■	■	■	
[3]		SRH 1801 – 2800 mm	■	■	■	
[33]		SRH 2601 – 2800 mm	■	■	■	
[4]	Horizontal at the top	SRW 290 – 800	■	■	■	Tilt striker / corner drive → <i>from page 440</i>
[15]		SRW 801 – 1600 mm	■	■	–	Centre lock → <i>from page 440</i>
[16]		SRW 801 – 1400 mm	–	–	■	Turn-Only sash → <i>from page 440</i>
[4]	Horizontal at the bottom	SRW 290 – 800 mm	■	–	–	Tilt striker / corner drive → <i>from page 440</i>
[15]		SRW 801 – 1200 mm	■	–	–	Centre lock → <i>from page 440</i>
[19]		SRW 1131 – 1600 mm	■	■	–	Turn-Only sash → <i>from page 440</i>
[16]		SRW 801 – 1400 mm	–	–	■	
[17]		SRW 320 – 730 mm	–	■	–	
[18]		SRW 731 – 1130 mm	–	■	–	Centre lock RC 1 N → <i>from page 440</i>

12.2.1.1 Standard



Espagnolette side and hinge side

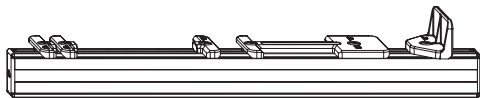
				Nº
Standard	511 – 710	Espagnolette side	No. 22	808677
	481 – 800	Espagnolette side	No. 23	263338
	801 – 1400	Espagnolette side Hinge side	No. 1	290048
	1401 – 1600	Espagnolette side Hinge side	No. 2	290049
	1601 – 2800	Espagnolette side	No. 32	798211
	1601 – 2600	Espagnolette side Hinge side	No. 3	290050
	2401 – 2800	Espagnolette side	No. 55	808454
	2601 – 2800	Hinge side	No. 33	808678



INFO

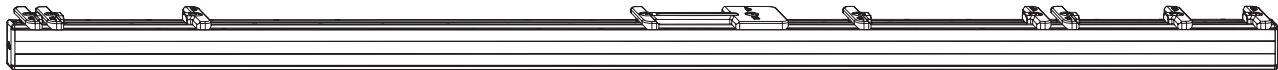
Use jig no. 3 with T&T espagnolette – fixed handle height on the hinge side only.

12.2.1.2 Tilt striker / corner drive



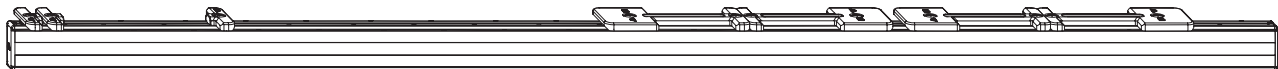
					Nº
Tilt striker / corner drive	280 – 800	290 – 800	Top Bottom Hinge side	No. 4	290051

12.2.1.3 Centre lock



					Nº
Centre lock	Basic security RC 1 N	801 – 1600	Top Bottom	No. 15	311892
		1201 – 1600	Bottom	No. 19	263337
	RC 1 N	320 – 730	Bottom	No. 17	263335
		731 – 1130	Bottom	No. 18	263336

12.2.1.4 Turn-Only sash

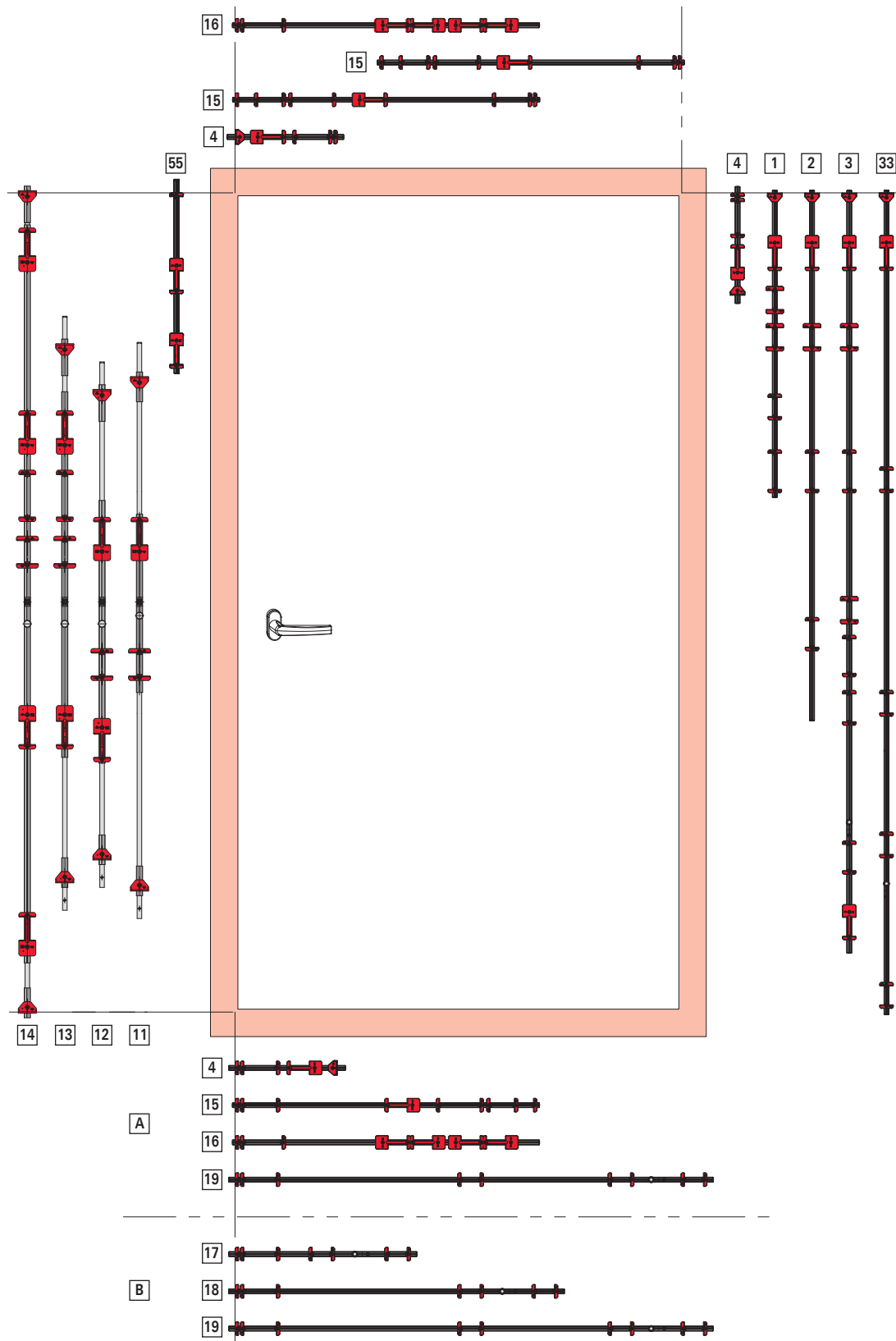


				Nº
Turn-Only sash	801 – 1400	Top Bottom	No. 16	311893





12.2.2 T&T espagnolette – centred / variable handle height

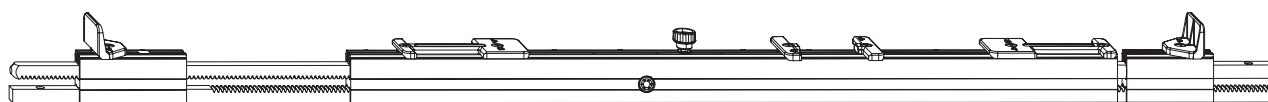


[A] BSec

[B] RC 1 N

Assignment	Position	Application range	T&T		T-O	Single jig
			BSec	RC 1 N	BSec	
[11]	Espagnolette side	SRH 621 – 1200 mm	■	■	■	Standard → <i>from page 442</i>
[12]		SRH 1201 – 1600 mm	■	■	■	
[13]		SRH 1601 – 2000 mm	■	■	■	
[14]		SRH 2001 – 2400 mm	■	■	■	
[55]		SRH 2401 – 2800 mm	■	■	■	
[4]	Hinge side	SRH 280 – 800 mm	■	■	–	Tilt striker / corner drive → <i>from page 443</i>
[1]		SRH 801 – 1400 mm	■	■	■	Standard → <i>from page 442</i>
[2]		SRH 1401 – 1800 mm	■	■	■	
[3]		SRH 1801 – 2800 mm	■	■	■	
[33]		SRH 2601 – 2800 mm	■	■	■	
[4]	Horizontal at the top	SRW 290 – 800	■	■	■	Tilt striker / corner drive → <i>from page 443</i>
[15]		SRW 801 – 1600 mm	■	■	–	Centre lock → <i>from page 443</i>
[16]		SRW 801 – 1400 mm	–	–	■	Turn-Only sash → <i>from page 443</i>
[4]	Horizontal at the bottom	SRW 290 – 800 mm	■	–	–	Tilt striker / corner drive → <i>from page 443</i>
[15]		SRW 801 – 1200 mm	■	–	–	Centre lock → <i>from page 443</i>
[19]		SRW 1131 – 1600 mm	■	■	–	Turn-Only sash → <i>from page 443</i>
[16]		SRW 801 – 1400 mm	–	–	■	
[17]		SRW 320 – 730 mm	–	■	–	
[18]		SRW 731 – 1130 mm	–	■	–	Centre lock RC 1 N → <i>from page 443</i>

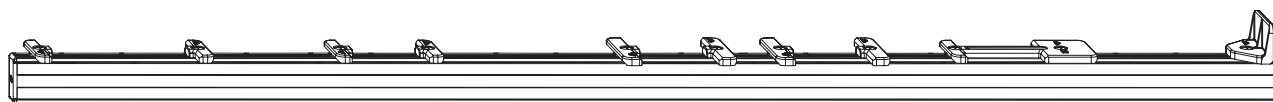
12.2.2.1 Standard



Espagnolette side

				Nº
Standard	621 – 1200	Espagnolette side	No. 11	268943
	1001 – 1600	Espagnolette side	No. 12	798480
	1601 – 2000	Espagnolette side	No. 13	787401
	2001 – 2400	Espagnolette side	No. 14	787402
	2401 – 2800	Espagnolette side	No. 55	808454





Hinge side

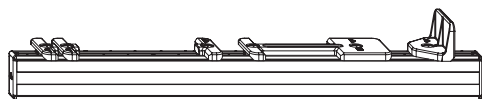
				Nº
Standard	801 – 1400	Espagnolette side Hinge side	No. 1	290048
Standard	1401 – 1600	Espagnolette side Hinge side	No. 2	290049
Standard	1601 – 2600	Espagnolette side Hinge side	No. 3	290050
Standard	2601 – 2800	Hinge side	No. 33	808678



INFO

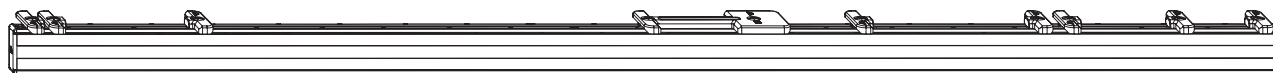
With T&T espagnolettes – centred / variable handle height, use jigs on the hinge side only.

12.2.2.2 Tilt striker / corner drive



					Nº
Tilt striker / corner drive	280 – 800	290 – 800	Top Bottom Hinge side	No. 4	290051

12.2.2.3 Centre lock



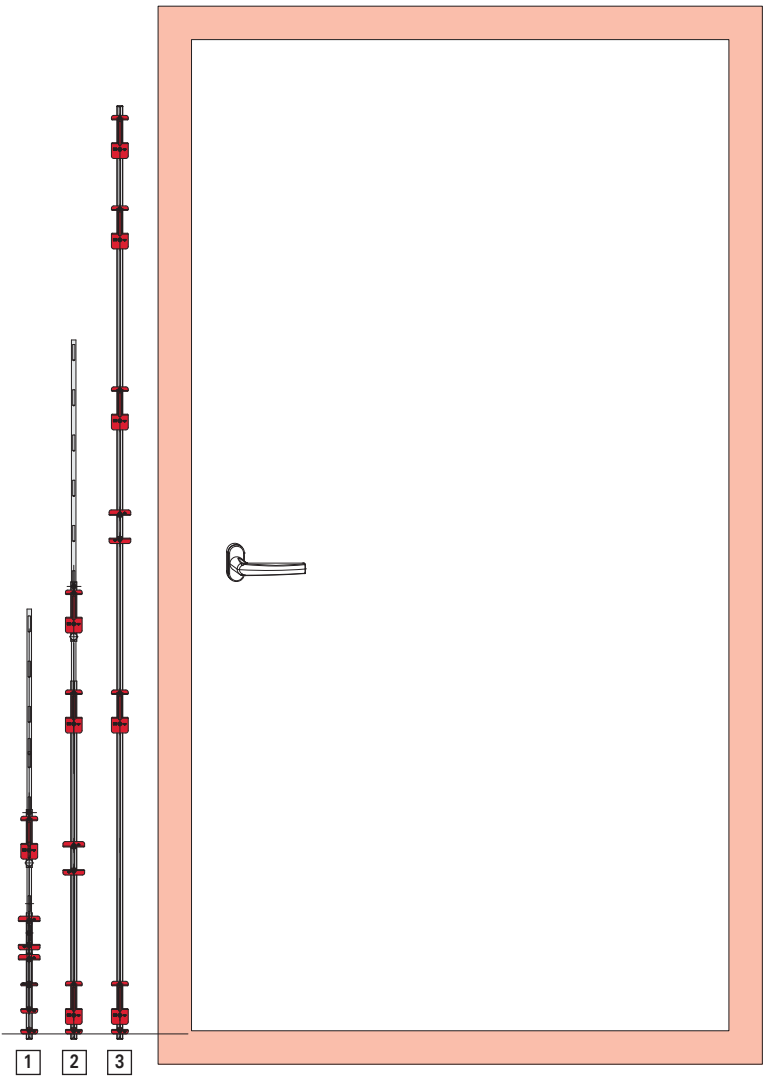
					Nº
Centre lock	Basic security RC 1 N	801 – 1600	Top Bottom	No. 15	311892
		1201 – 1600	Bottom	No. 19	263337
	RC 1 N	320 – 730	Bottom	No. 17	263335
		731 – 1130	Bottom	No. 18	263336

12.2.2.4 Turn-Only sash



				Nº
Turn-Only sash	801 – 1400	Top Bottom	No. 16	311893

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 444</i>
[2]		SRH 1001 – 1600 mm	■	
[3]		SRH 1601 – 2250 mm	■	

12.2.3.1 Standard

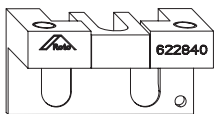


Espagnolette side

				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	262155
		Right	262156

Accessories

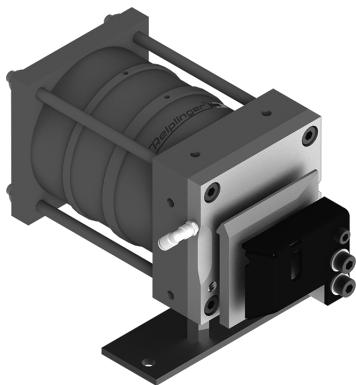
		Nº
Foot control for hydropneumatic punch	–	230760
Hand control for hydropneumatic punch	–	230761

		Nº
Ruler	Left	230758
	Right	230759
VT calliper	Left	632972
	Right	632973





12.4.2 Pneumatic punch – PS 100



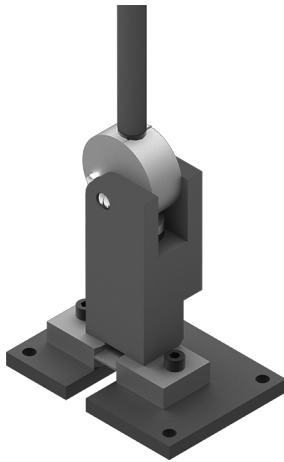
			Nº
Pneumatic punch – PS 100	For offset cuts	Left	553992
		Right	553993

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

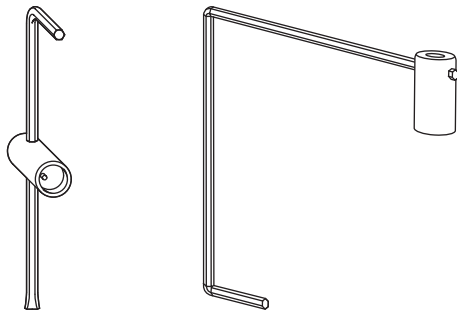
12.4.3 Hand lever punch – HS



			Nº
Hand lever punch – HS	For offset cuts	–	637627

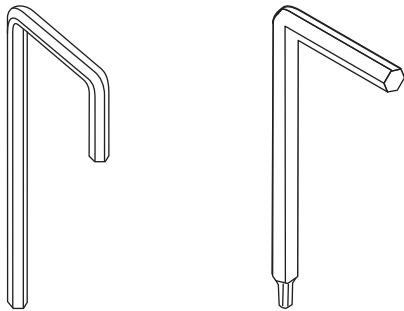
12.5 Tools

12.5.1 Adjustment tools



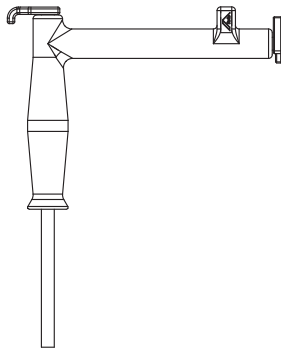
	Nº
Adjustment tool: V locking cam	258191
	381574

12.5.2 Hex keys



	Nº
4 mm hex key	208609
Hex key: 2.5 / 4.0 mm	230764

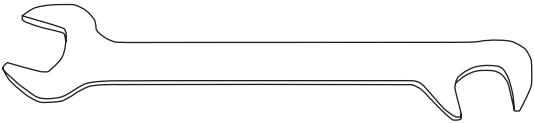
12.5.3 Extractor handle



	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 / NT grease

			Nº
Roto NX / NT grease	20 ml tube, white	1 Piece(s)	782881





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