



Roto NX

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

german made

What does that mean?



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

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

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

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

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

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

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

Company



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

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

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

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

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

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

Roto | Window and Door Technology

Worldwide



Europe



Roto Frank Austria GmbH
Kalsdorf (AT)



Roto Frank Belarus
Minsk (BY)



Roto Frank S.A.
Zaventem (BE)



Roto Frank GmbH
Dietikon (CH)



**Roto Frank Fenster- und
Türtechnologie GmbH**
Leinfelden / Velbert (DE)



Roto Frank Estonia
Tallinn (EE)



Roto Frank S.A.
Lliçà de Vall (ES)



Roto Frank Ferrures S.A.S.
Saint-Avoid (FR)



Roto Elzett Certa Kft.
Lövő / Sopron (HU)



Roto Frank Italia
San Donà di Piave (IT)



Roto Frank Lithuania
Vilnius (LT)



Roto Frank Latvijā
Jūrmala (LV)





Roto Frank
Warsaw (PL)



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



ООО Roto Frank
Noginsk (RU)



Roto Frank Ltd. Sti.
Istanbul (TR)



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



Asia



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



Roto Frank Indonesia
Jakarta (ID)



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



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



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



America



Roto Frank Latina SA
Buenos Aires (ARG)



Roto Frank Brasil Ltd.
São José (BR)



Fermax Componentes Ltd.
Colombo (BR)



Roto Fasco Canada Inc.
Mississauga, Ontario (CA)



Roto Frank Chile
Santiago (CL)



Roto Frank of America Inc.
Chester (US)



= Sales

= Production / sales



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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
	Width
	DIN left / right
	Backset
	Corner drive, integrated
	Rebate clearance
	Rebate depth
	Colour
	Colour code, Roto



Symbol	Meaning
	Colour code, standard
	Sash rebate width
	Sash rebate height
	Sash weight
	Size
	Fixed handle height
	Centred / variable handle height
	Height
	Information
	Clamp strip version
	Fixed toggle lever position
	Centred / variable toggle lever position
	Couplable
	Length
	Material number
	Installation type
	Lifting mishandling device
	Groove
	Surface
	Item



Symbol	Meaning
	Profile system
	Frame groove
	Number of welded-on strikers
	Number of locking cams
	Type of locking cams
	Bullet catch
	Security class
	Integrated night ventilation
	Blocking device
	System
	Packaging
	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



Symbol	Meaning
	Turn-Only / Turn-Only floating-mullion window
	Turn-Only / Tilt&Turn floating-mullion window

1.1.3 Colours

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

Colour examples

									
R01.1	R01.2	R01.3	R03.1	R04.1	R04.4	R05.3	R05.5	R06.2	R07.2



INFO

Colours may deviate in the illustration.

1.1.4 Abbreviations

Abbreviation	Meaning
HA	Hardware axis
approx.	approximately
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
IMO	Installation instructions



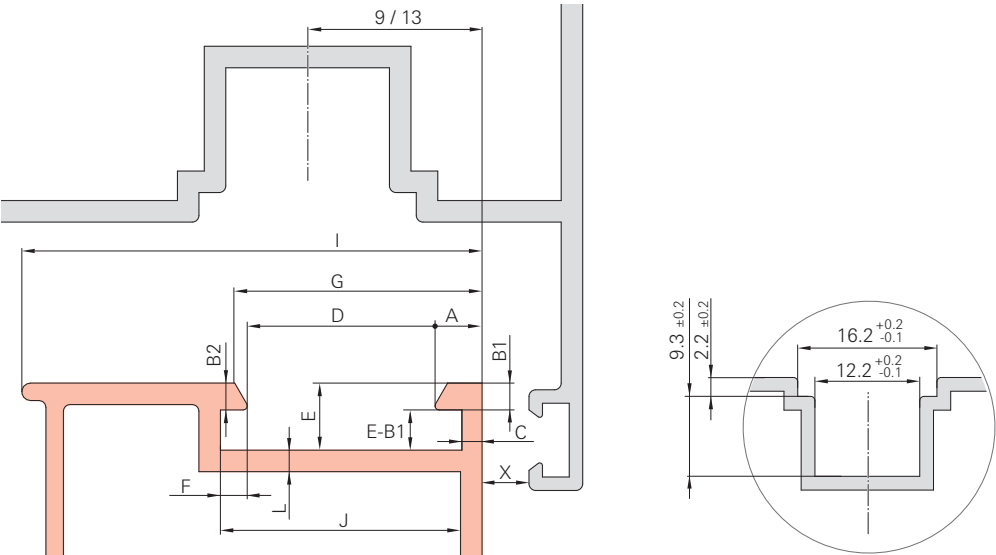
Abbreviation	Meaning
Y	Yes
kg	Kilograms
VT	Vertical tilting
KU	Couplable
m ²	Square metres
ml	Millilitres
mm	Millimetres
CL	Centre lock
N	No
No.	Number
LMD	Lifting mishandling device
Not sh.	Not shown
AR	Arch
RC	Resistance class
PW	Pitched window
SEC	Security
TF	TiltFirst
e.g.	For example



1.1.5 Profile cross section

Roto can assist with the generally recommended profile assessments if you contact the Roto sales representative in charge of this.

Hardware axis 9 / 13



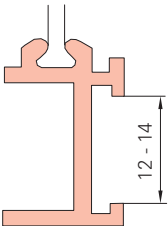
Assignment	Meaning	Min.	Max.
[A]	Flange width, front	3.5	4.3
[B1]	Flange thickness, front	1.5	2.0
[B2]	Flange thickness, rear	1.5	2.0
[C]	Profile leg thickness, front	1.5	2.0
[D]	Groove width	10.0	14.0
[E]	Groove depth	4.5	5.0
[F]	Rear flange overhang	1.7	2.5
[G]	Pivot rest supporting surface	13.2	18.5
[I]	Installation space (frame)	21.0	–
[J]	Groove inside width	14.4	18.6
[L]	Groove base thickness	1.5	2.0
[X]	Hinge passage	3.5	–



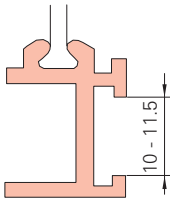
INFO

Hinge sides A16 and Designo A16 are designed for HA 9 mm and HA 13 mm. Before using different hardware axes, a separate profile assessment is recommended.

Groove versions



Groove version V.01



Groove version V.02



INFO

When ordering profile-related frame components, note the information about the groove versions .



1.1.6 Copyright protection

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

1.2 Roto NX



One hardware system – limitless possibilities

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

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

New performance, new possibilities

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

The safe choice – in every aspect

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



1.2.1 Always the right decision

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



Efficiency

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



Comfort

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



Security

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



Design

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

Even the standard version of Roto NX features basic security on the sash bottom edge. The sample combinations for safety windows in accordance with DIN V ENV 1627–1630 achieve the greatest burglar-inhibiting effect. This standard includes an overall test of all of a window's sub-elements.



1.2.4 A universal locking system



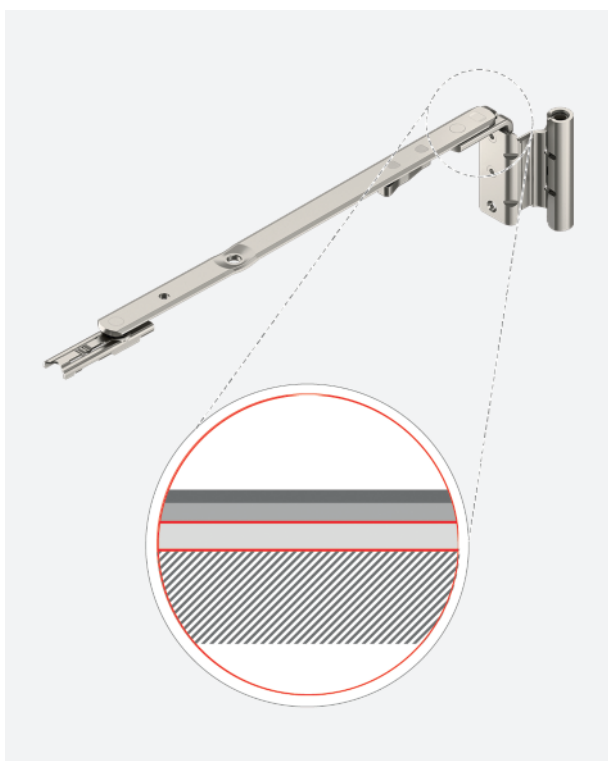
The Roto NX locking concept

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

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

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

1.2.5 Maximum surface protection



Surface structure of a connection element

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

Roto Sil

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

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

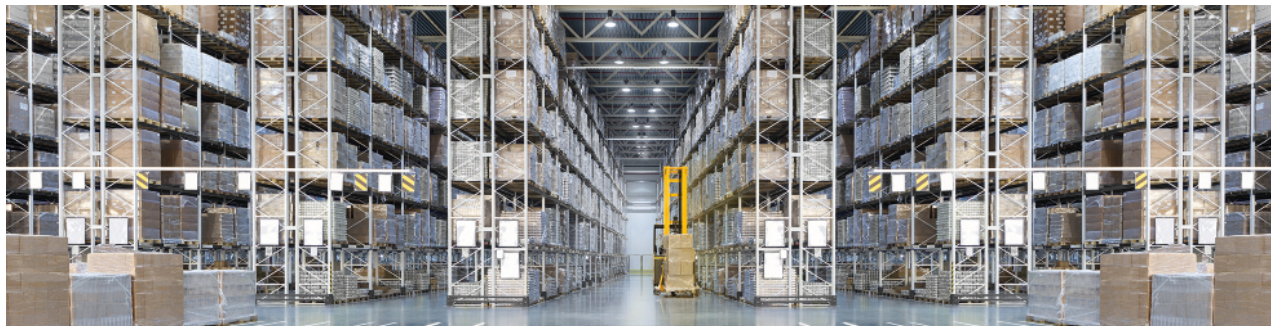
Roto Sil Level 6

Roto Sil Level 6 is based on an innovative coating technology with microcrystalline structure. In combination with Roto Sil, Roto Sil Level 6 is an advanced standard for connection components subject to high stress, such as rivets, bolts and sliding elements.

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

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

1.3 Storage conditions



Protecting components against dirt and dust

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

Protecting components against mechanical damage

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

Protecting components against direct moisture and wet

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

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

If containers nevertheless get wet...

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

.

1.4 Environment



Environmental compatibility of the hardware components

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

Environmental impact resulting from the hardware

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

Environmental compatibility of the packaging

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

Environmental compatibility of disposal

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

Returning packaging material

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



1.5 Gütegemeinschaft Schlösser und Beschläge e.V.

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

	
Gütegemeinschaft Schlösser und Beschläge e.V. ORIGINALFASSUNG Ausgabe: 2020-11-12	
Relevanz Beschläge für Fenster und Fenstertüren Vorgaben, Richtlinien, Produkt- und Installationshinweise	
Inhalt	
1. Anwendungsbereich dieser Richtlinie	4
2. Systembezeichnung	5
3. Die Gruppenbezeichnung	10
4. Allgemeine Funktion und Anwendungsbereich der Beschläge	11
5. Funktionsbeschreibung	12
6. Sicherheit	13
7. Wartung, Pflege und Inspektion	14
Hinweise: Gefahren durch Scher- und Druckkräfte CE-Kennzeichnung ATZS-Symbol Marken- und Gütezeichen Kurz- und Langformbezeichnungen	
Hinweise Produktionsverfahren und Fertigungsverfahren Einbauhinweise und Installationshinweise (Einbauhinweise)	
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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	
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VHBE

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

	
Gütegemeinschaft Schlösser und Beschläge e.V. ORIGINALFASSUNG Ausgabe: 2020-11-12	
Relevanz Anwendungsbereich dieser Richtlinie ist das Dreh- und Dreh-Kipp-Beschlagensystem Vorgaben, Richtlinien, Produkt- und Installationshinweise	
Inhalt	
1. Anwendungsbereich dieser Richtlinie	4
2. Systembezeichnung	5
3. Die Gruppenbezeichnung	10
4. Allgemeine Funktion und Anwendungsbereich der Beschläge	11
5. Funktionsbeschreibung	12
6. Sicherheit	13
7. Wartung, Pflege und Inspektion	14
Hinweise: Gefahren durch Scher- und Druckkräfte CE-Kennzeichnung ATZS-Symbol Marken- und Gütezeichen Kurz- und Langformbezeichnungen	
Hinweise Produktionsverfahren und Fertigungsverfahren Einbauhinweise und Installationshinweise (Einbauhinweise)	
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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.: 228-9004105-5-8			
Dreh- und Drehkippbeschläge für Fenster und Fenstertüren <i>Turn and tilt-turn hardware for windows and casement doors</i>		Grundlage(n) / Basis: ift-Zertifizierungsprogramm für Beschläge <i>ift-certification scheme for hardware</i> ift Zertifizierung QM328.2018 01	
Produkt <i>product</i> max. Flügelgewicht <i>max. casement weight</i> Einsatzbereich <i>field of application</i> Hersteller <i>manufacturer</i> Produktionsstandort <i>production site</i>	Roto NX 300 kg Systeme mit entsprechender Beschlagsaufnahme <i>Systems with suitable hardware groove</i> Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1, DE 70771 Leinfelden-Echterdingen Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank-Platz 1, D-70771 Leinfelden-Echterdingen Roto Frank Austria GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Roto Elzett Certe Kft. Kossuth Lajos u. 25, H-9461 Lővő	EN 1191 EN 12400 Klasse 3 <i>class 3</i> Dauerfunktion <i>resistance to repeated opening and closing</i> EN ISO 9227 EN 1670 Klasse 5 <i>class 5</i> 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. This certificate attests that the building product mentioned fulfills the requirements of the underlying ift-certification scheme in its current version. 1. Erstellung von Produktfamilien des aufgeführten Bauproduktes und Typprüfung durch eine akkreditierte Prüfstelle nach EN 13128-8:2017 unter Berücksichtigung der Anwendungsdiagramme 2. Einführung und Aufrechterhaltung einer werkseitigen Produktionskontrolle durch den Hersteller 3. Erstinspektion des Werkes und der werkseitigen Produktionskontrolle durch ift-Zert 4. kontinuierliche Fremdbetreuung des Werkes und der werkseitigen 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 werkseitigen Produktionskontrolle selbst nicht wesentlich verändert haben. Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind ift-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen. Das Unternehmen ist berechtigt, das benannte Bauprodukt gemäß der ift-Zeichensatzung mit dem ift-zertifiziert-Zeichen zu kennzeichnen. Dieses Zertifikat enthält 2 Anträge.		1. completion of product families of the building product listed and type-testing by an accredited testing body as per EN 13128-8:2017 based on the application diagrams 2. implementation and maintenance of a factory production control by the manufacturer 3. initial inspection of the production site and the factory production control by ift-Zert 4. 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 23.01.2024 Gültig bis / Valid until: 05.03.2028 Christian Kehrer Leiter der ift-Zertifizierungs- und Überwachungsstelle Head of ift Certification and Surveillance 228 9004105		Identitäts-Check <i>identity check</i> www.ift-rosenheim.de/ ift-zertifiziert ID: 400-887D	
ift Rosenheim GmbH Theodor Graf-Str. 7-9 D-83030 Rosenheim Kontakt: Tel.: +49 89 31 261-0 Fax: +49 89 31 261-260 www.ift-rosenheim.de Prüfung und Kalibrierung – EN ISO/IEC 17025 Inspektion – EN ISO/IEC 17020 Zertifizierung Produkte – EN ISO/IEC 17065 Zertifizierung Managementsysteme – EN ISO/IEC 17021 ift Rosenheim ift Rosenheim ift Rosenheim			

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



1.6.2 Quality management

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

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

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

Zertifikat		ift ROSENHEIM
Zertifikatsnummer: 791IFT-9004105-1-1		
Umfang Qualitätsmanagementsystem DIN EN ISO 9001:2015	Grundlage(n): ISO 9001	
Unternehmen (Zentrale) Roto Frank Fenster- und Türtechnologie GmbH Wilhelm-Frank Platz 1 DE - 70771 Leinfelden-Echterdingen		
Geltungsbereich der Zentrale Entwicklung, Konstruktion, Herstellung und Vertrieb von Fenster- und Türtechnologie und Komponentenfertigung	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.	
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	  www.ift-rosenheim.de	
ift Rosenheim GmbH Theodor-Geist Str. 7-9 D-83078 Rosenheim Kontakt: Tel. +49 89 31 261-0 Fax +49 89 31 207-220 www.ift-rosenheim.de Prüfung und Kalibrierung – EN ISO/IEC 17025 Inspektion – EN ISO/IEC 17023 Zertifizierung – ift-Zert – TR ISO/IEC 17065 Zertifizierung Managementsysteme – EN ISO/IEC 17021  		

1.6.3 International Technology Centre (ITC)

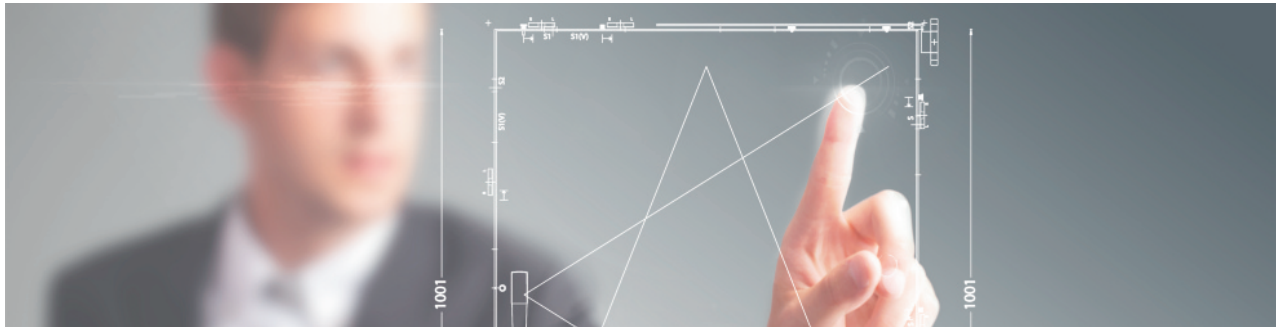
Roto has owned a modern International Technology Centre (ITC) at its Leinfelden headquarters since October 1996. This facility is available for both our own material and product testing as well as for inspecting finished products made by Roto market partners.



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

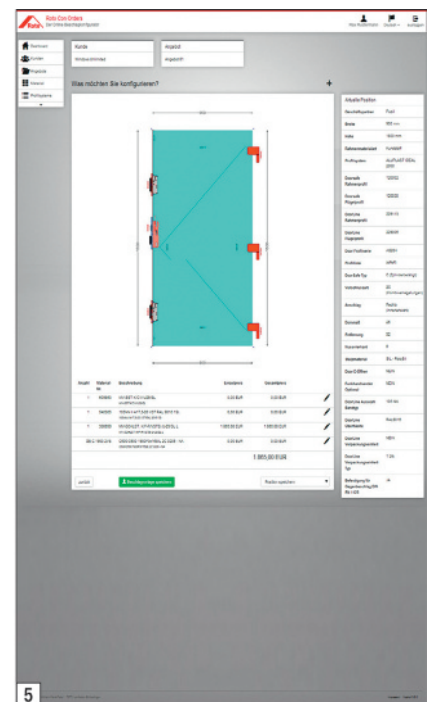
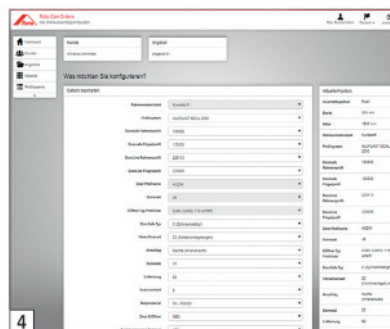
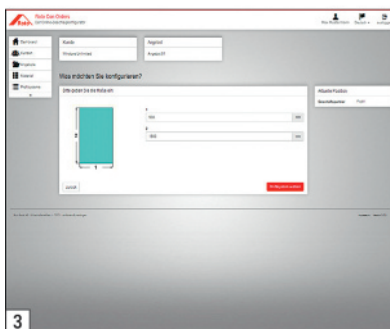
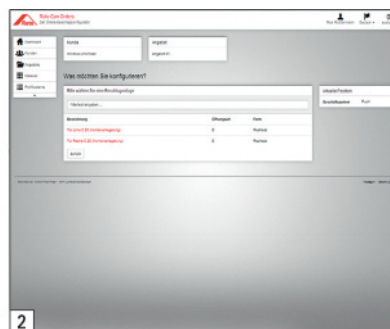
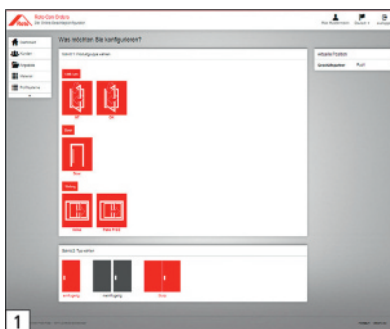


Just four steps for a finished parts list

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

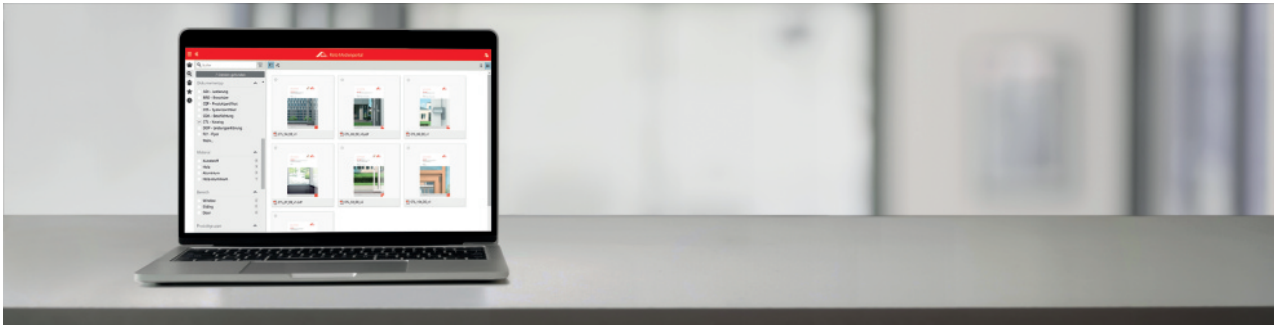
Roto Con Orders is a web-based solution that you can access around the world and around the clock. You only require a computer with a web browser and Internet access for this purpose. To work with the online hardware configurator, please register once with your e-mail address in the portal for dealers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



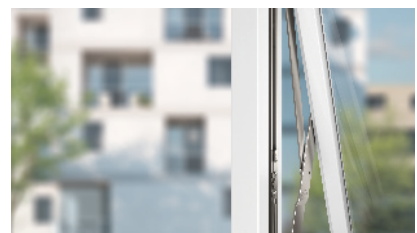
Roto FS Kempton

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

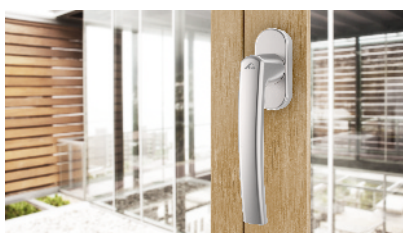
Wireless sensors integrated in hardware for home security

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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Tilt&Turn hardware for pitched windows	39
Tilt&Turn hardware for arched windows	43
Tilt-Only hardware for rectangular windows	44

Hinge side Designo A16

Turn-Only / Tilt&Turn hardware for rectangular windows	47
Tilt-Only hardware for rectangular windows	50

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.

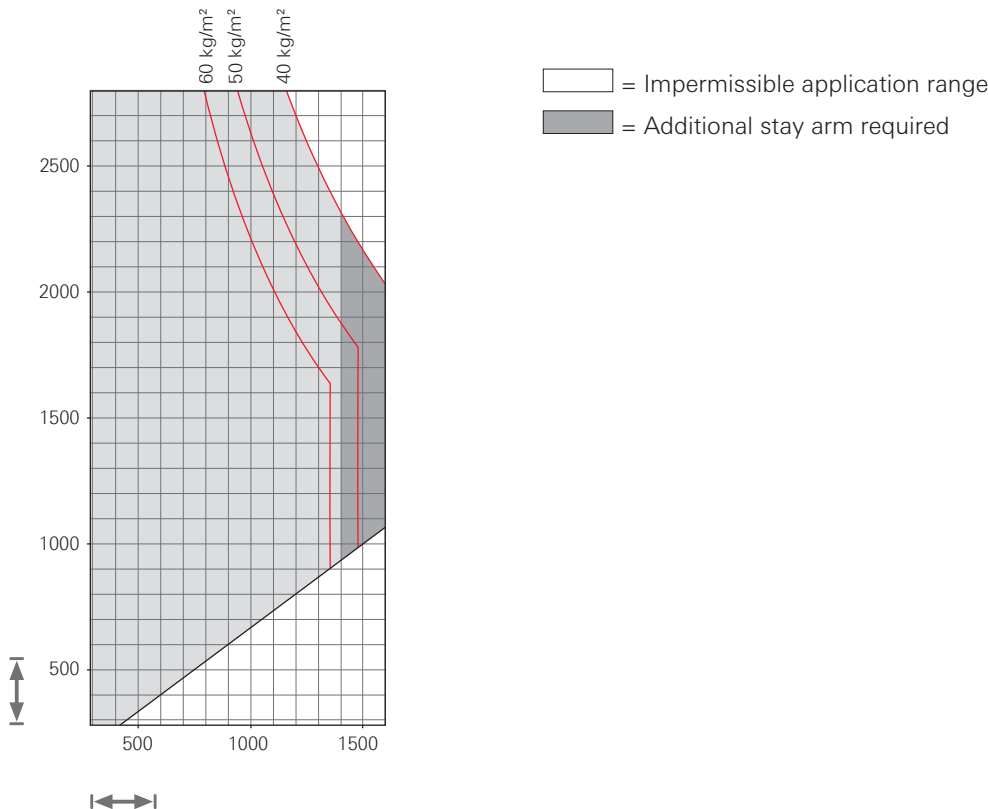


2.2 Hinge side A16

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

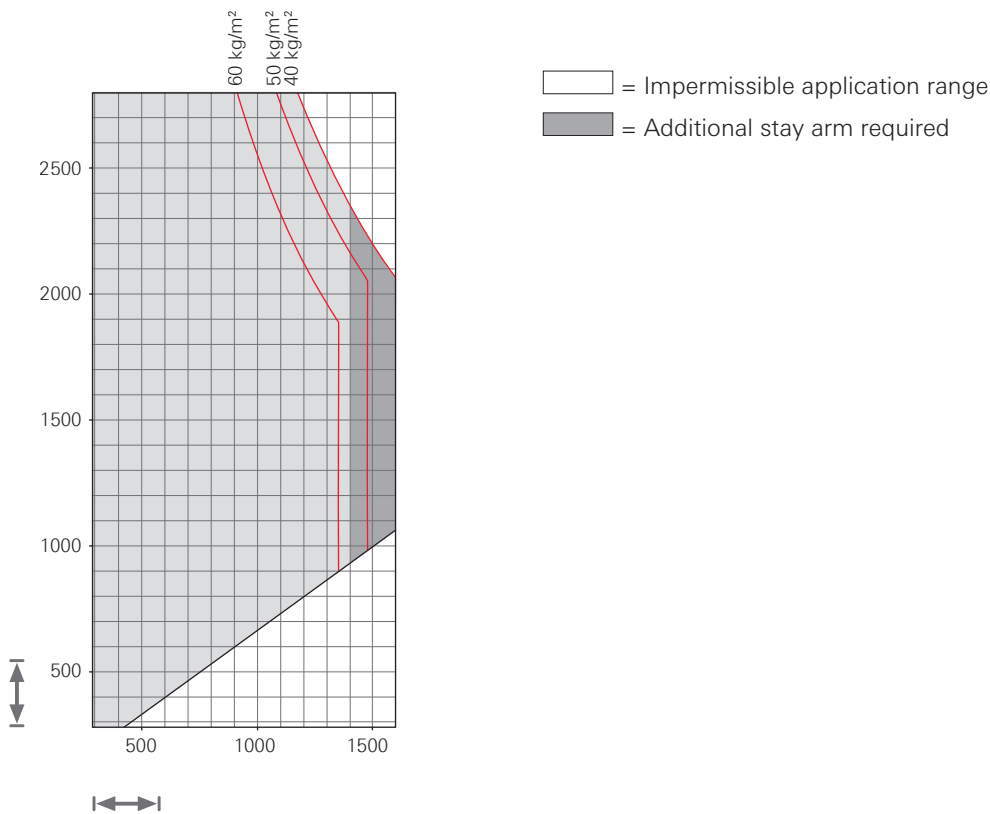
		Basic security	Security RC 1 N	Security RC 2 / RC 2 N
	Sash rebate width	290 – 1600 mm	400 – 1600 mm	490 – 1400 mm
	Sash rebate height	280 – 2800 mm	320 – 2800 mm	600 – 2800 mm
	Sash weight	max. 130 kg	max. 130 kg	max. 130 kg



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	Security
			RC 1 N	RC 2 / RC 2 N
	Sash rebate width	290 – 1600 mm	400 – 1600 mm	490 – 1400 mm
	Sash rebate height	280 – 2800 mm	320 – 2800 mm	600 – 2800 mm
	Sash weight	max. 150 kg	max. 150 kg	max. 150 kg



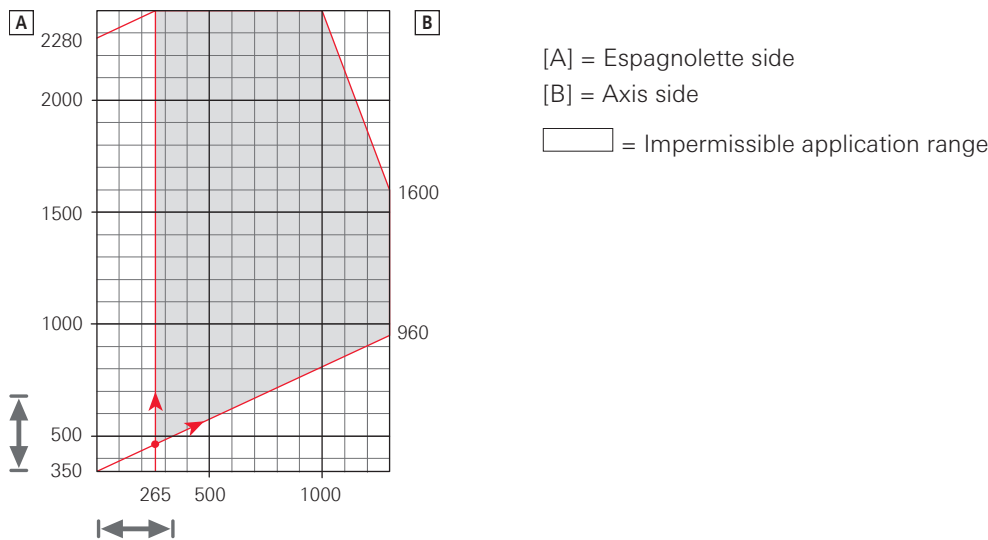
INFO

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 ≈ 2.5 kg

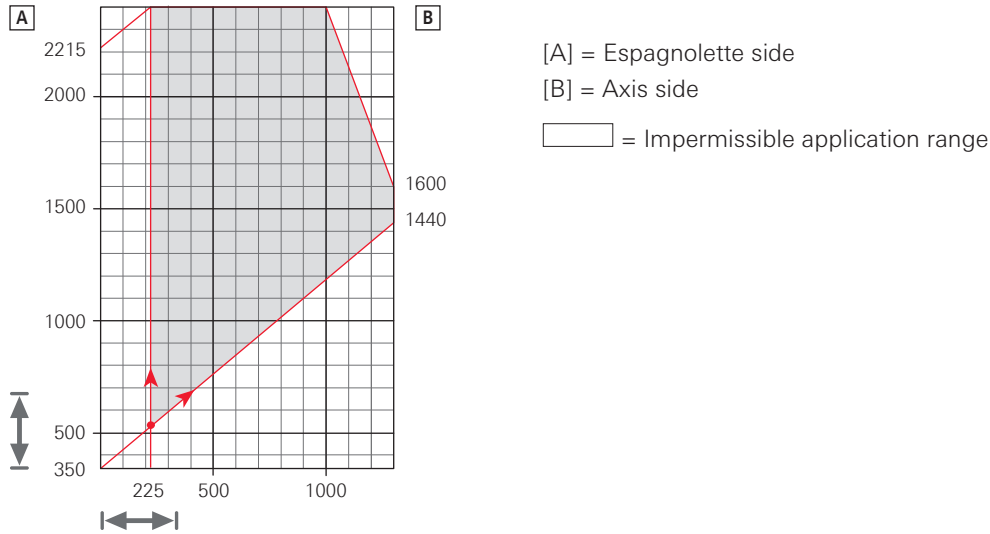
Application range

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

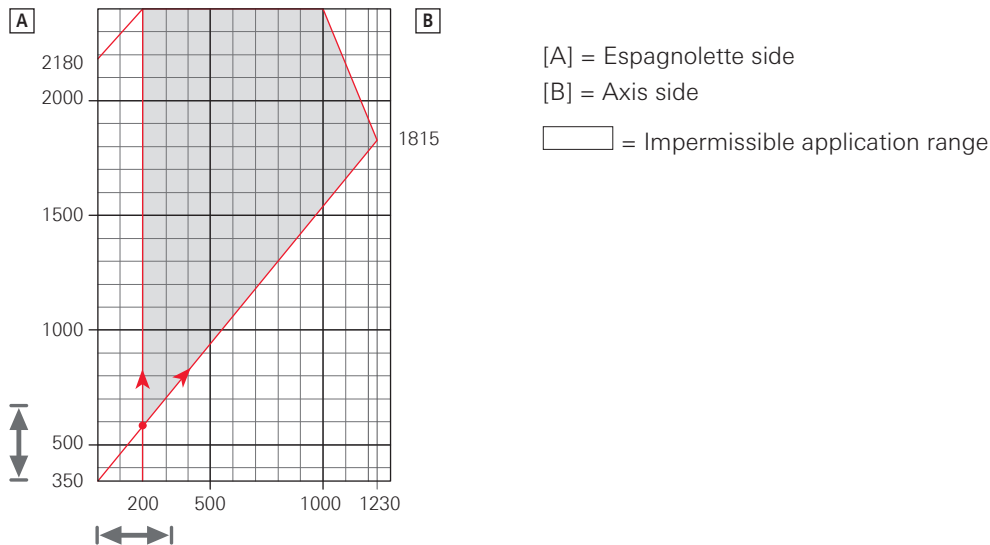


INFO

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

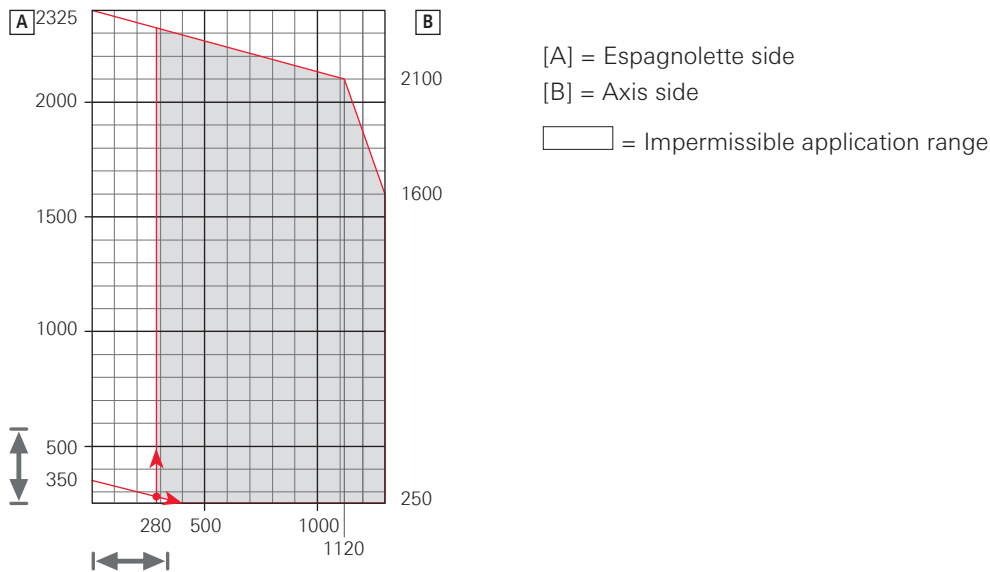
Application range

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

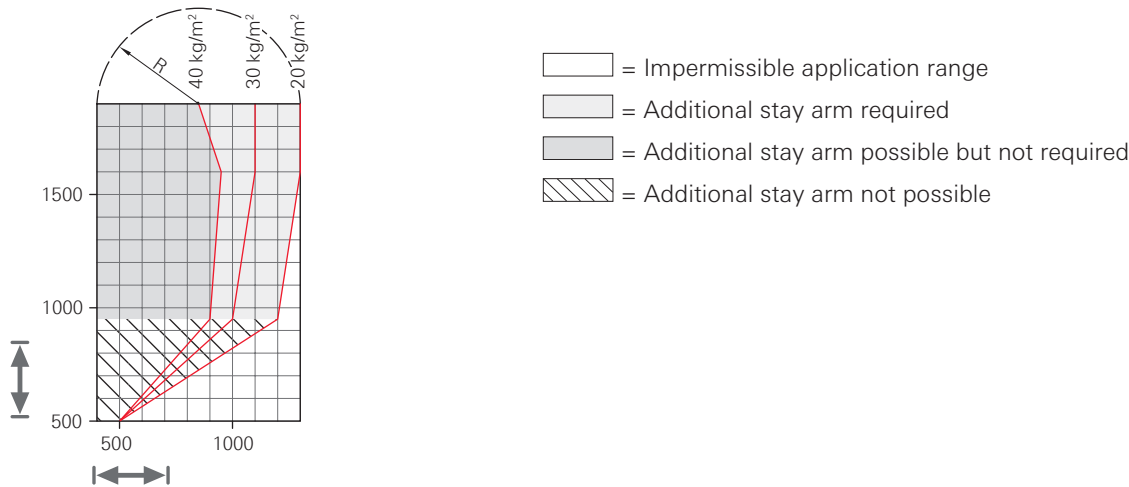


INFO

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.

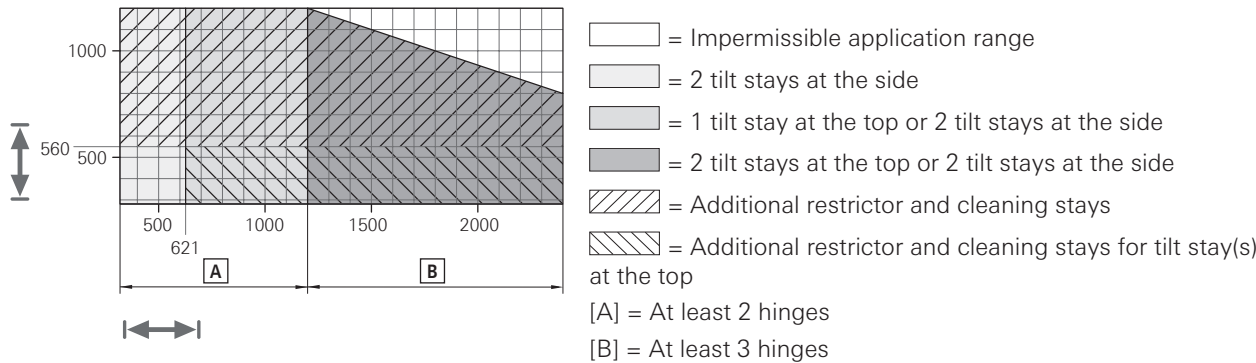
Application range

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.

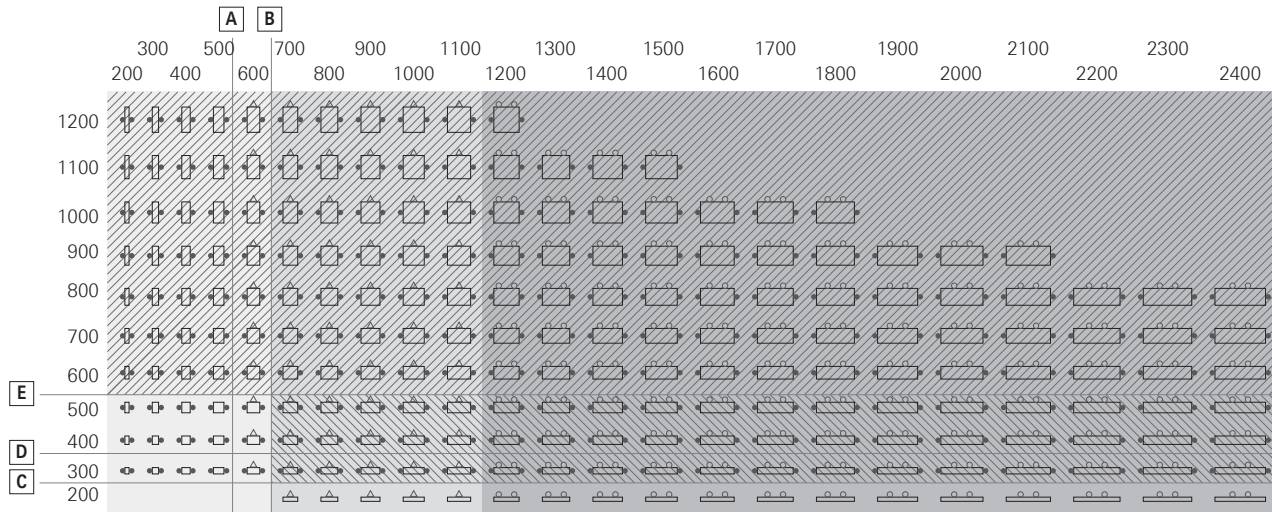
Further information can be found at www.beschlagindustrie.de.



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



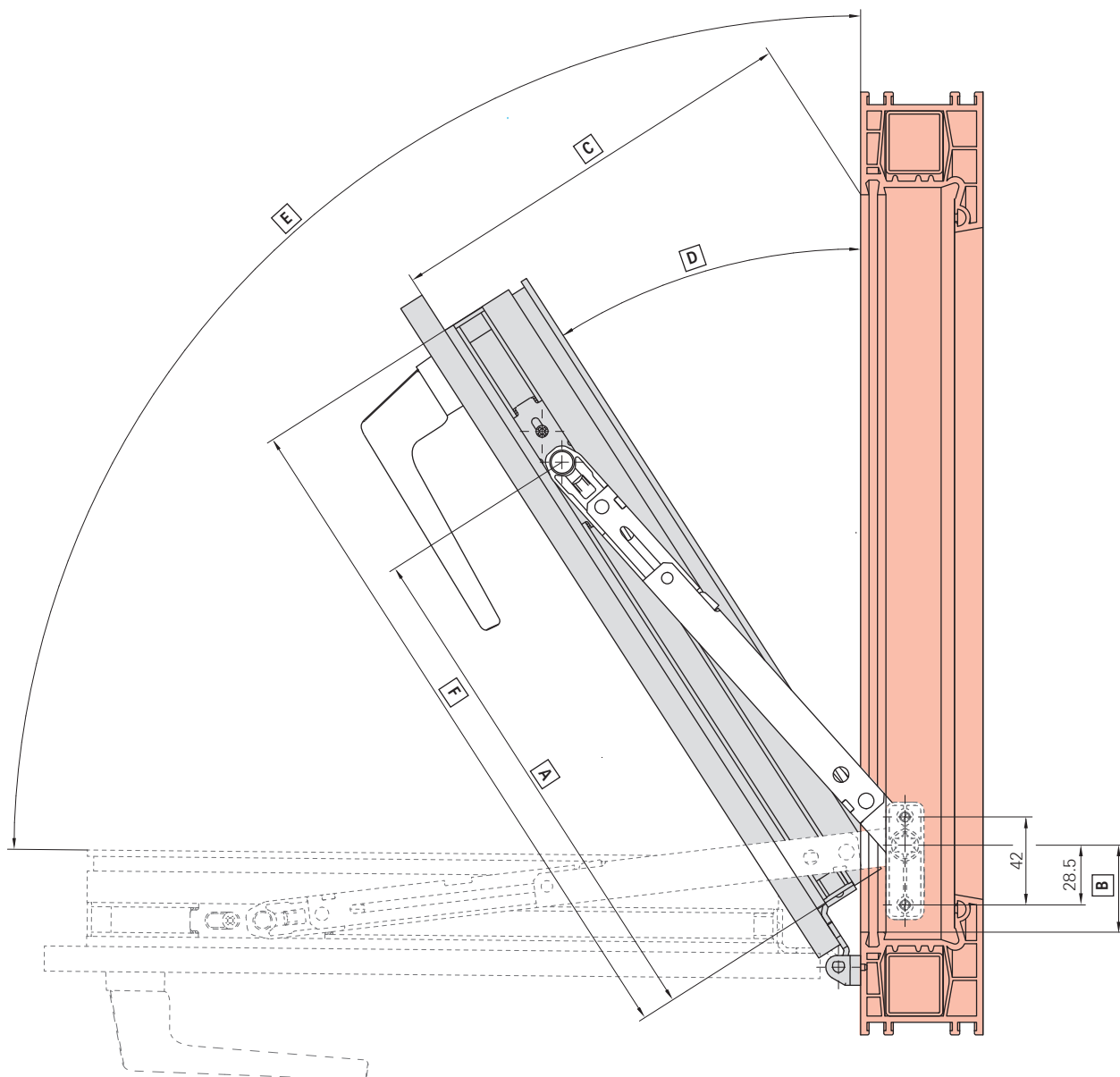
- [A] From 501 mm tilt stay at the top is only possible with Turn-Only / Tilt-Only espagnolette
[B] From 621 mm tilt stay at the top is possible with Turn-Only / Tilt-Only espagnolette and T&T espagnolette
[C] From **260 mm** K, E5, P, T, A
[D] From **360 mm** K, E5, P, T, A, Designo, aluminium
[E] From **520 mm** all hinge sides

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



INFO

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



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

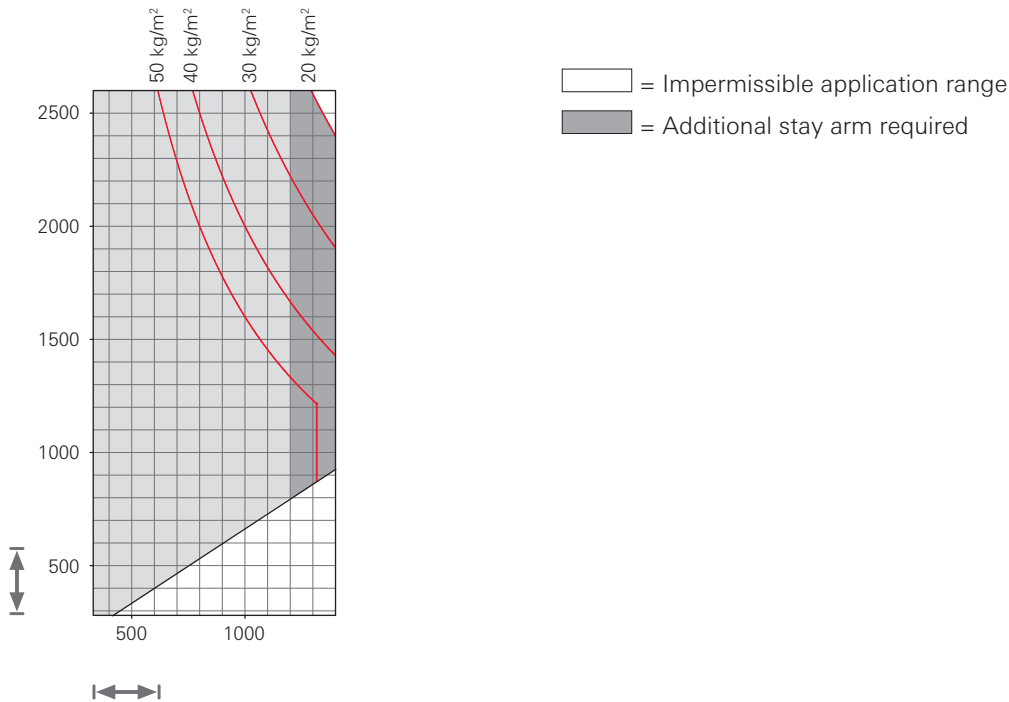
SRH	Type	[A]	[B]	[C]	[D]	[E]
290 – 400	1	250	45	180 – 245	33°	90°
401 – 560	1	280	75	205 – 275	27°	67°
561 – 700	2	525	170	225 – 277	22°	88°
701 – 850	2	575	220	244 – 292	19°	72°
851 – 1200	2	625	270	261 – 363	17°	62°



2.3 Hinge side Designo A16

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

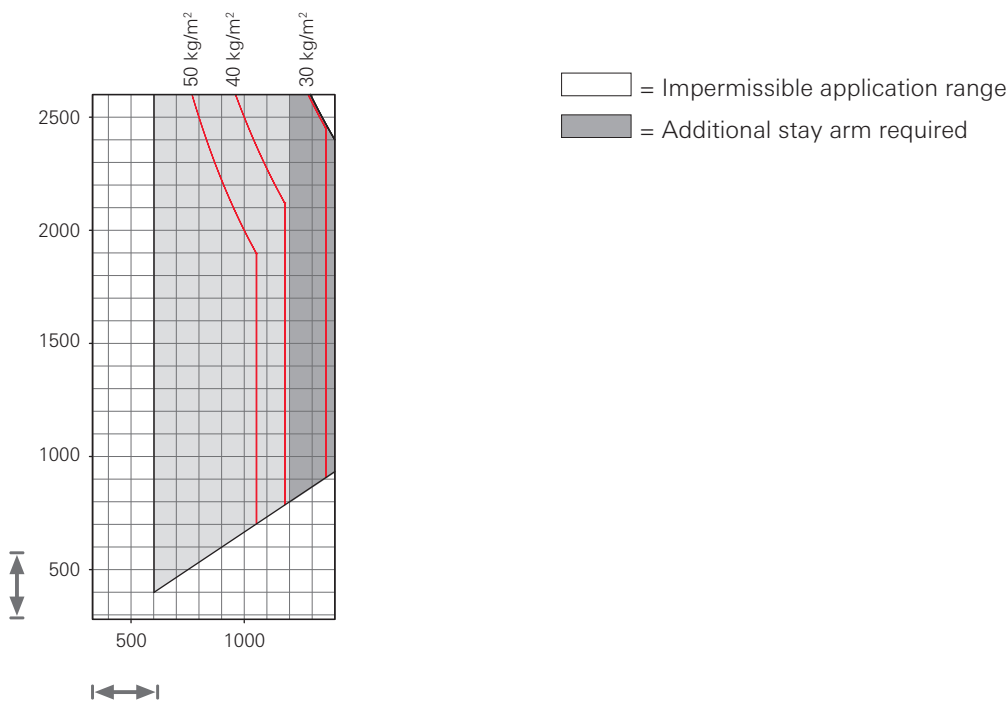
		Basic security	Security RC 1 N	Security RC 2 / RC 2 N
	Sash rebate width	330 – 1400 mm	450 – 1400 mm	450 – 1400 mm
	Sash rebate height	280 – 2600 mm	280 – 2600 mm	490 – 2400 mm
	Sash weight	Max. 80 kg	Max. 80 kg	Max. 80 kg



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 RC 1 N	Security 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



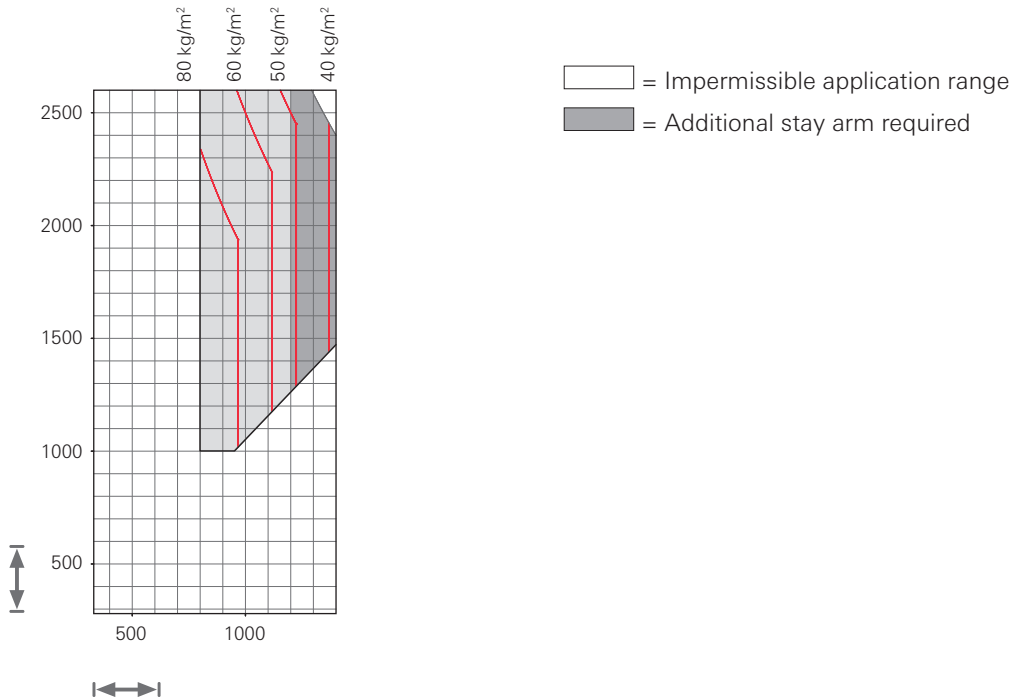
INFO
When using stay arm 350 and with S.kg > 80 kg: set the tilt depth restriction to 80 mm.



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



2.3.1.3 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

When using stay arm 350 and with S.kg > 80 kg: set the tilt depth restriction to 80 mm.



INFO

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

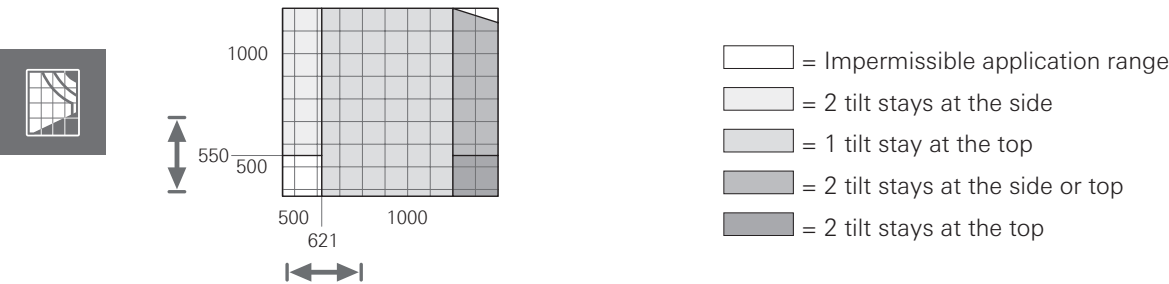


INFO

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

Further information can be found at www.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 A16**

T&T espagnolette, VT – fixed handle height	54
T&T espagnolette – centred / variable handle height	84

Hinge side Designo A16

T&T espagnolette, VT – fixed handle height	112
T&T espagnolette – centred / variable handle height	136

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.

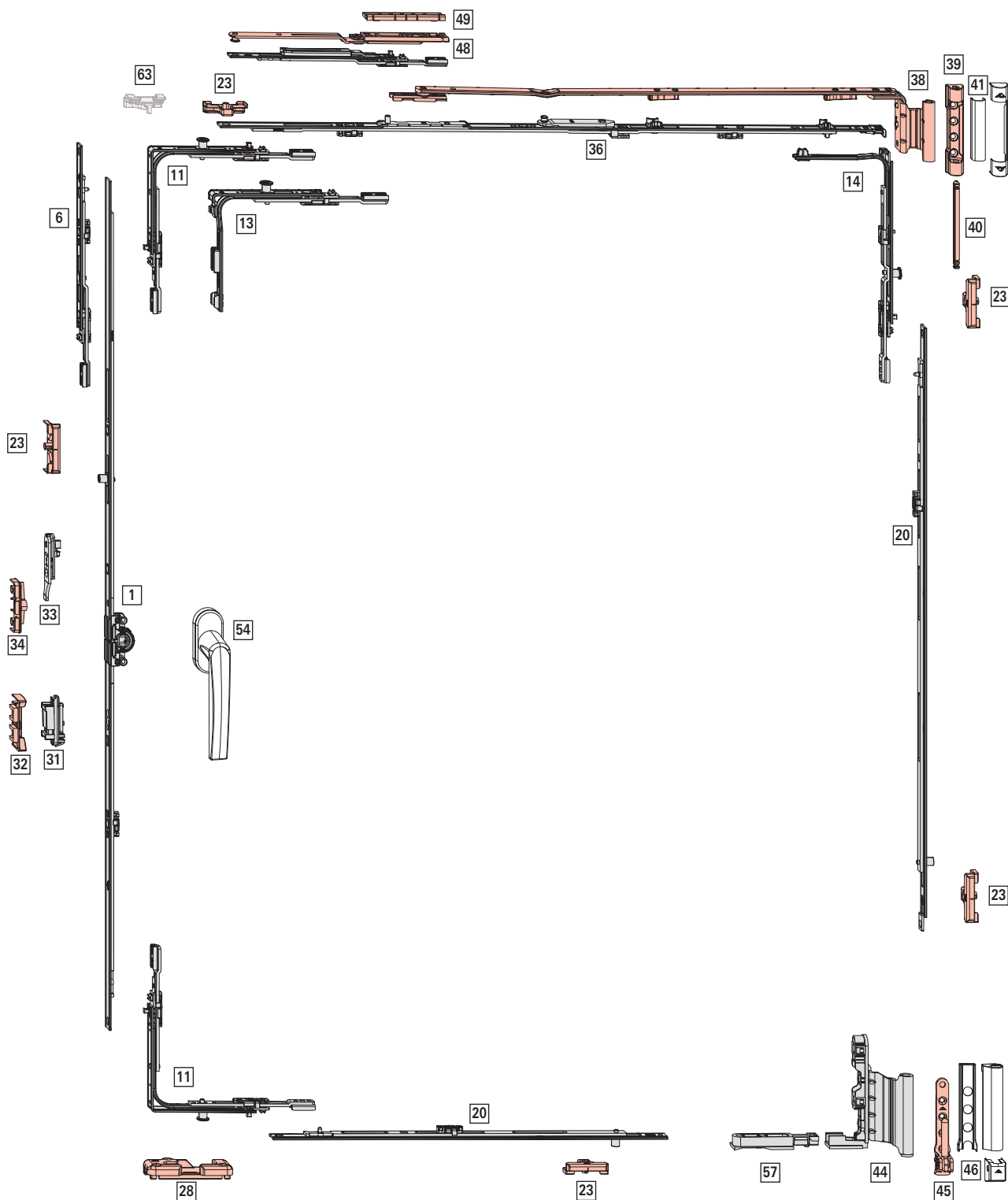


3.1 Hinge side A16

3.1.1 T&T espagnolette, VT – fixed handle height

3.1.1.1 Tilt&Turn hardware

3.1.1.1.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 298</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	280 – 2800 mm
	S.kg	max. 150 kg



INFO

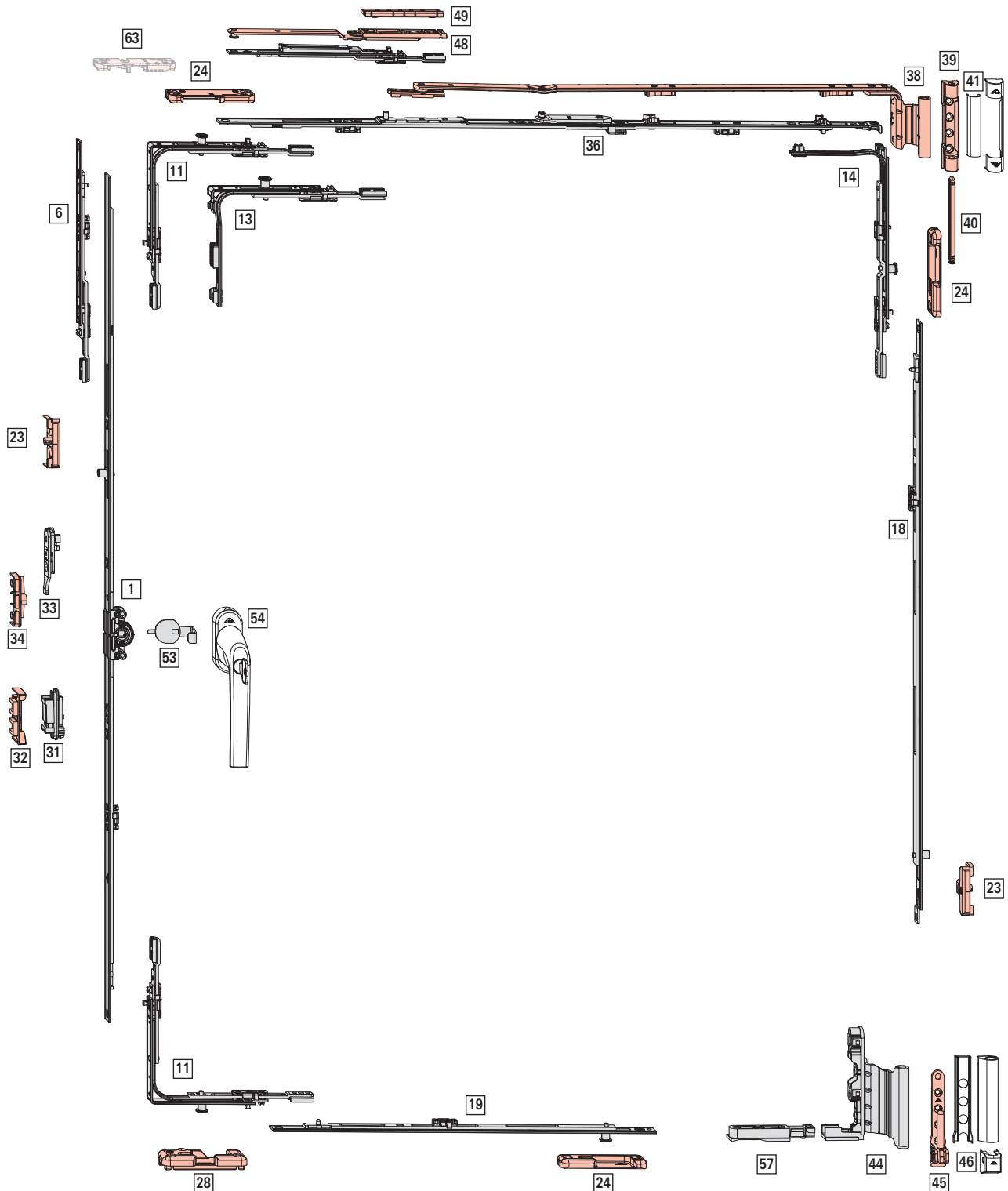
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3.1.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – security → <i>from page 245</i>
[19]	Centre lock, multipart – security → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 298</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	320 – 2800 mm
	S.kg	max. 150 kg



INFO

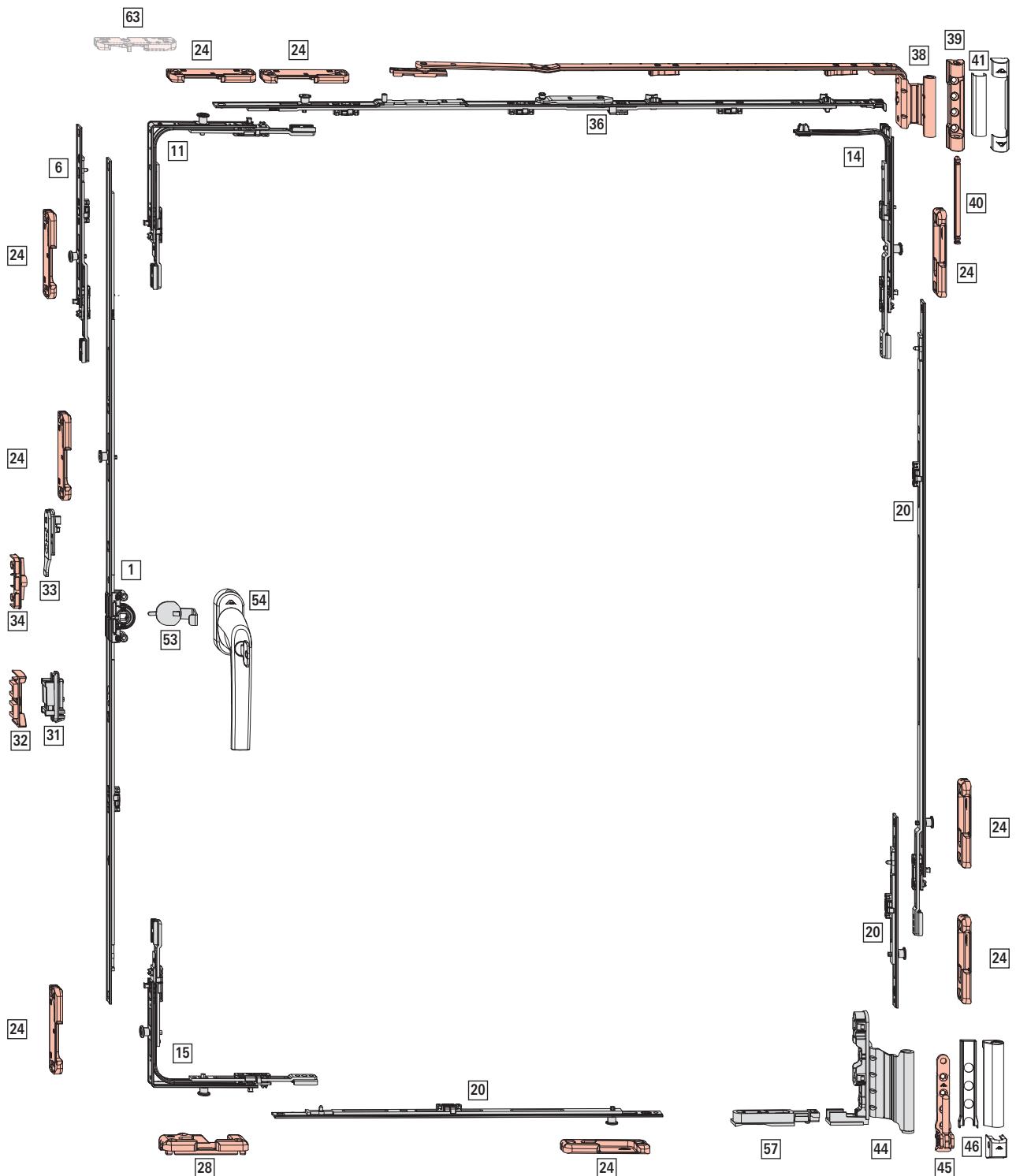
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3.1.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 273</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 298</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	600 – 2800 mm
	S.kg	max. 150 kg



INFO

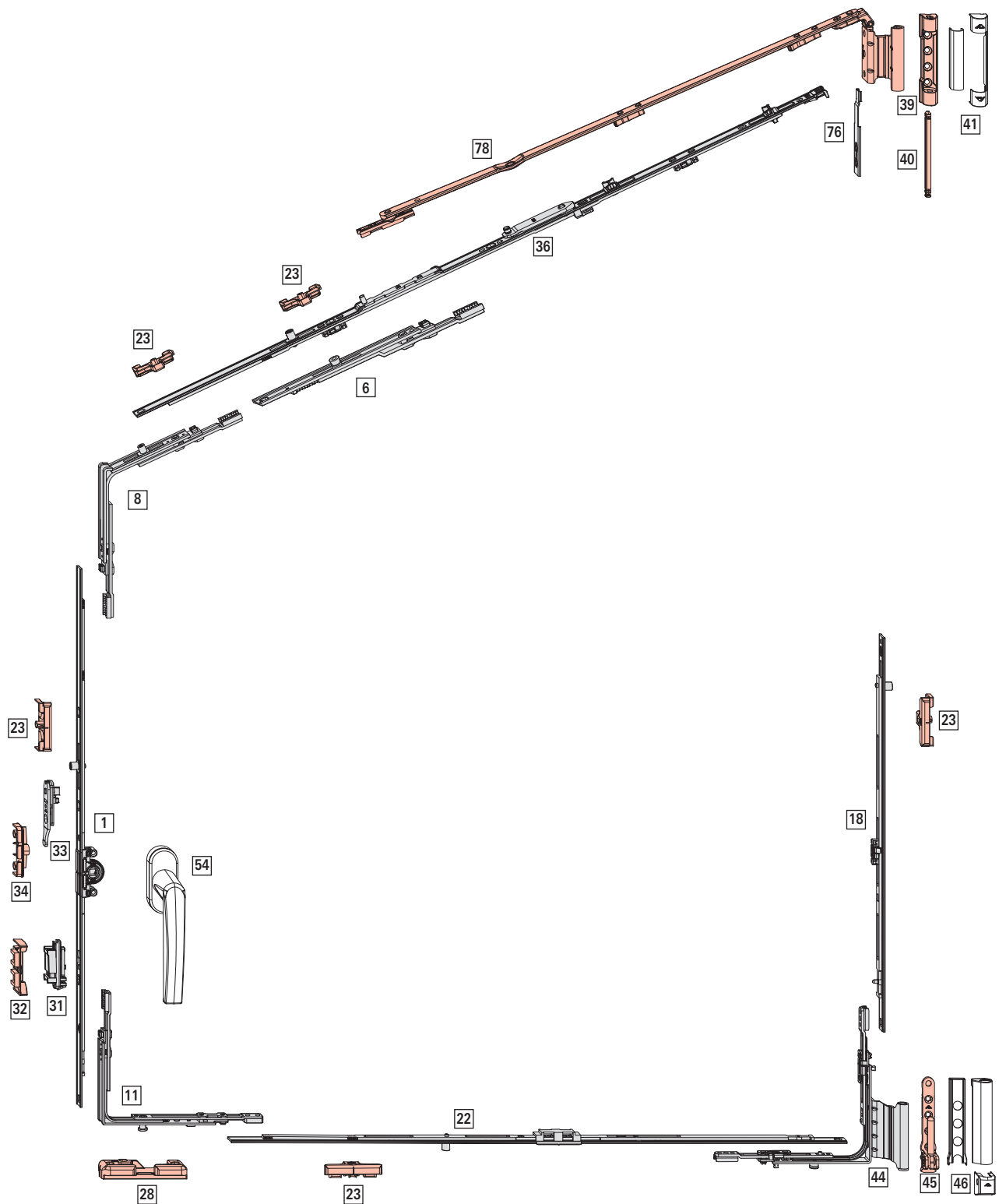
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3.1.1.1.4 Pitched window – basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Espagnolette extension → <i>from page 244</i>
[8]	Corner drive for pitched windows → <i>from page 217</i>
[11]	Corner drive, standard → <i>from page 212</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[22]	Arched component → <i>from page 251</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge for arched windows / pitched windows → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[54]	Handle (see catalogue CTL_1)
[76]	End piece for pitched stay arm → <i>from page 318</i>
[78]	Stay arm for pitched windows → <i>from page 227</i>

Application range

Basic security		
	Sash rebate width (SRW)	400 – 1300 mm
	Sash rebate height (SRH)	361 – 2400 mm
	Sash weight (S.kg)	max. 80 kg



INFO

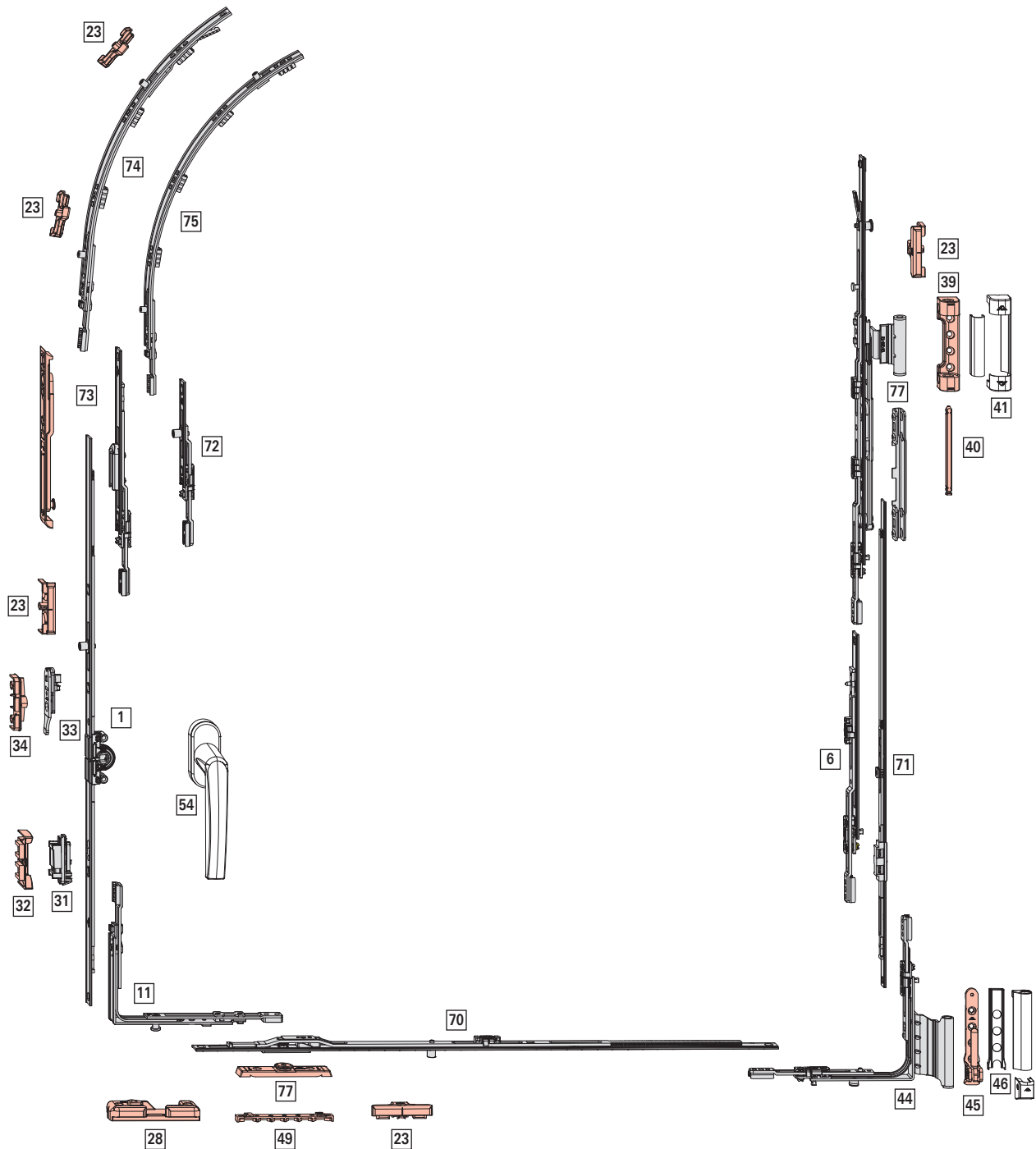
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3.1.1.1.5 Arched window – basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[39]	Stay bearing, adjustable → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge for arched windows / pitched windows → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 265</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[70]	Arched component, horizontal → <i>from page 251</i>
[71]	Arched component, vertical → <i>from page 251</i>
[72]	Arched espagnolette connector → <i>from page 191</i>
[73]	Arched additional scissor stay → <i>from page 285</i>
[74]	Arched centre lock, standard → <i>from page 250</i>
[75]	Arched centre lock, couplable → <i>from page 250</i>
[77]	Sash stay arched window set → <i>from page 228</i>

Application range

Basic security		
	SRW	400 – 1300 mm
	SRH	565 – 1900 mm
	S.kg	max. 150 kg



INFO

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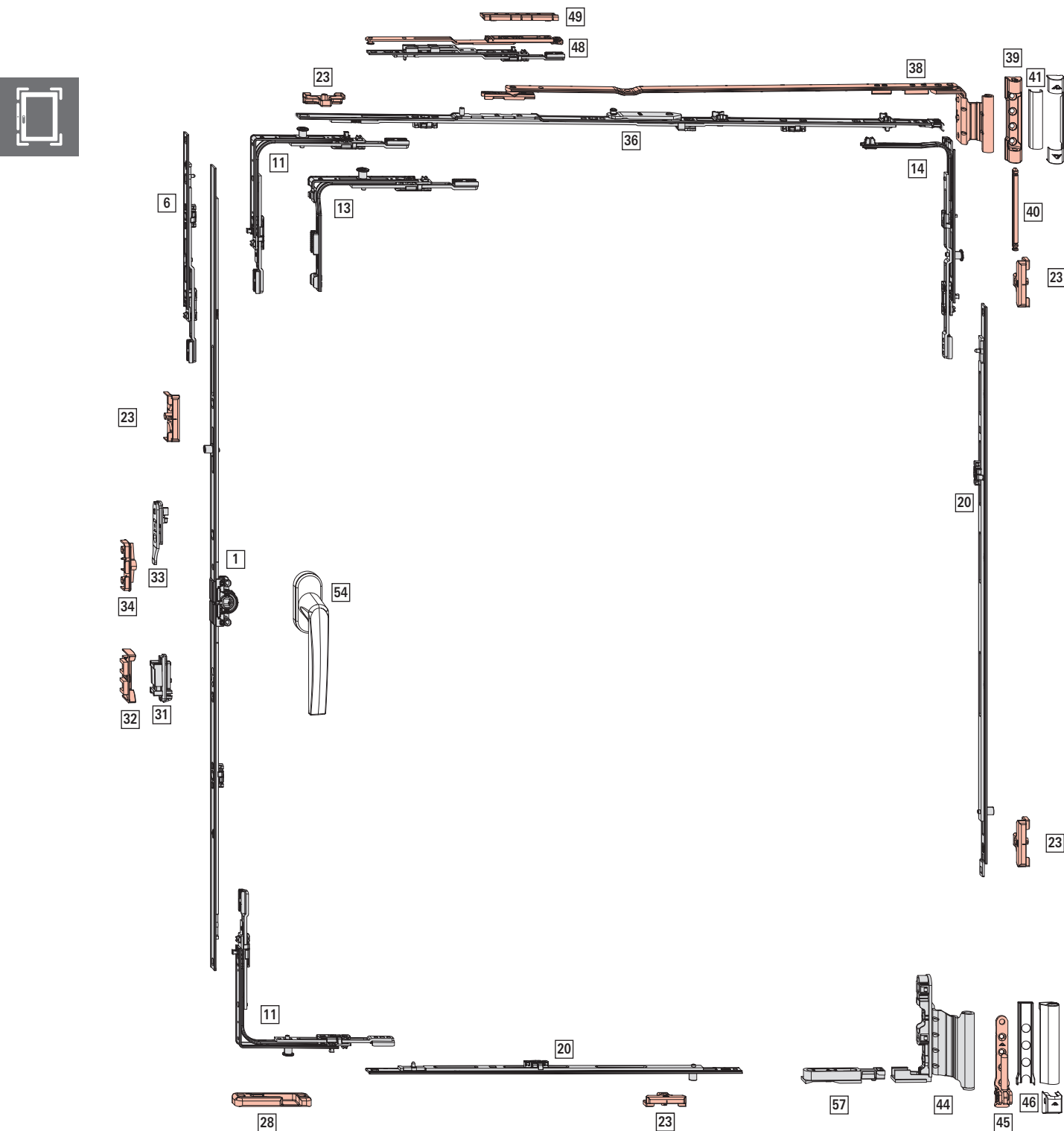
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3.1.1.2 TiltFirst hardware

3.1.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	TiltFirst tilt striker → <i>from page 274</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	TiltFirst stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	TiltFirst additional stay arm → <i>from page 285</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	280 – 2800 mm
	S.kg	max. 150 kg



INFO

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3.1.1.3 Turn-Only hardware

3.1.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[52]	Travel restrictor → <i>from page 318</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	280 – 2800 mm
	S.kg	max. 150 kg



INFO

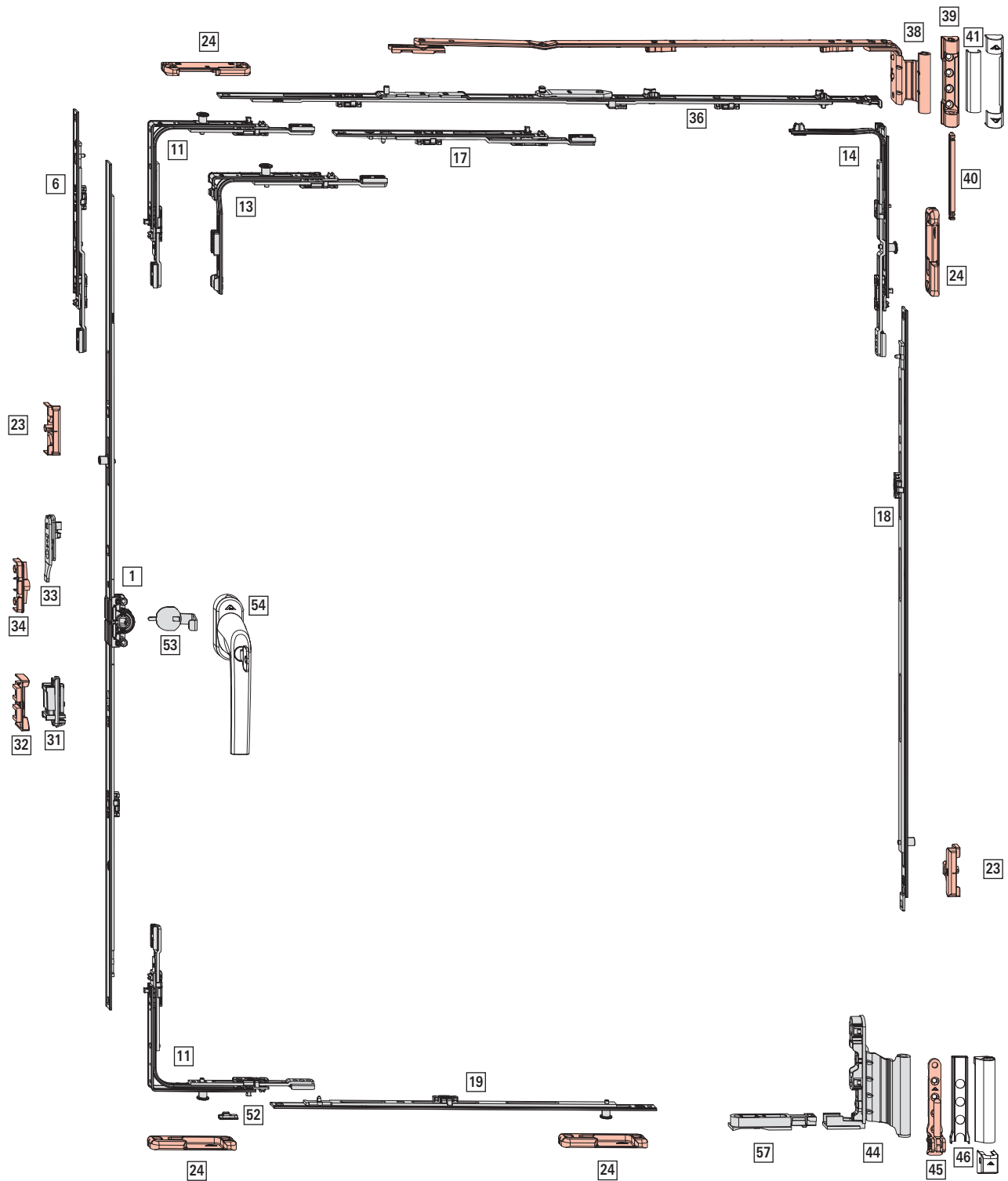
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3.1.1.3.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[18]	Centre lock, multipart – security → <i>from page 245</i>
[19]	Centre lock, multipart – security → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[52]	Travel restrictor → <i>from page 318</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	320 – 2800 mm
	S.kg	max. 150 kg



INFO

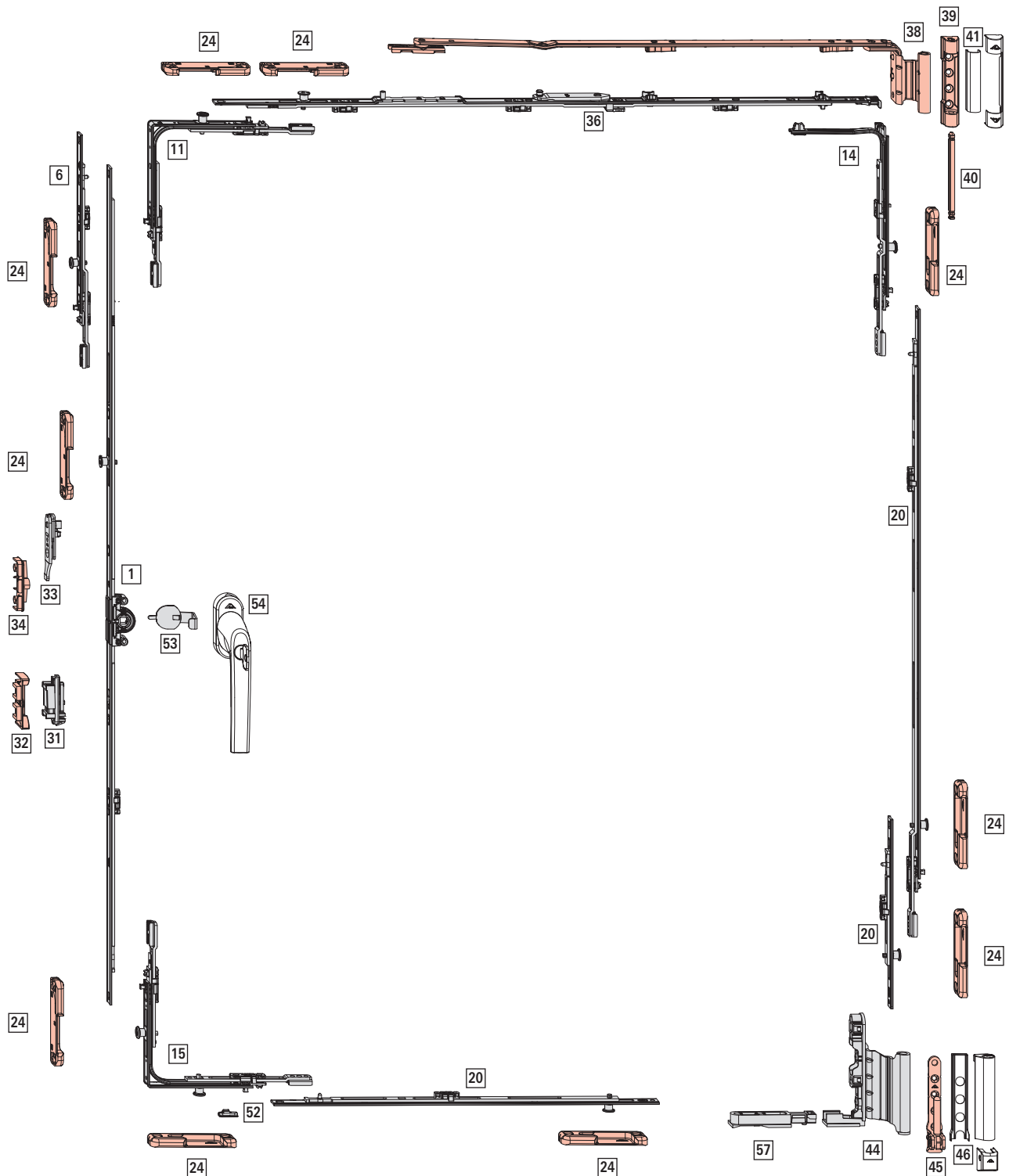
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3.1.1.3.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[52]	Travel restrictor → <i>from page 318</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	600 – 2800 mm
	S.kg	max. 150 kg



INFO

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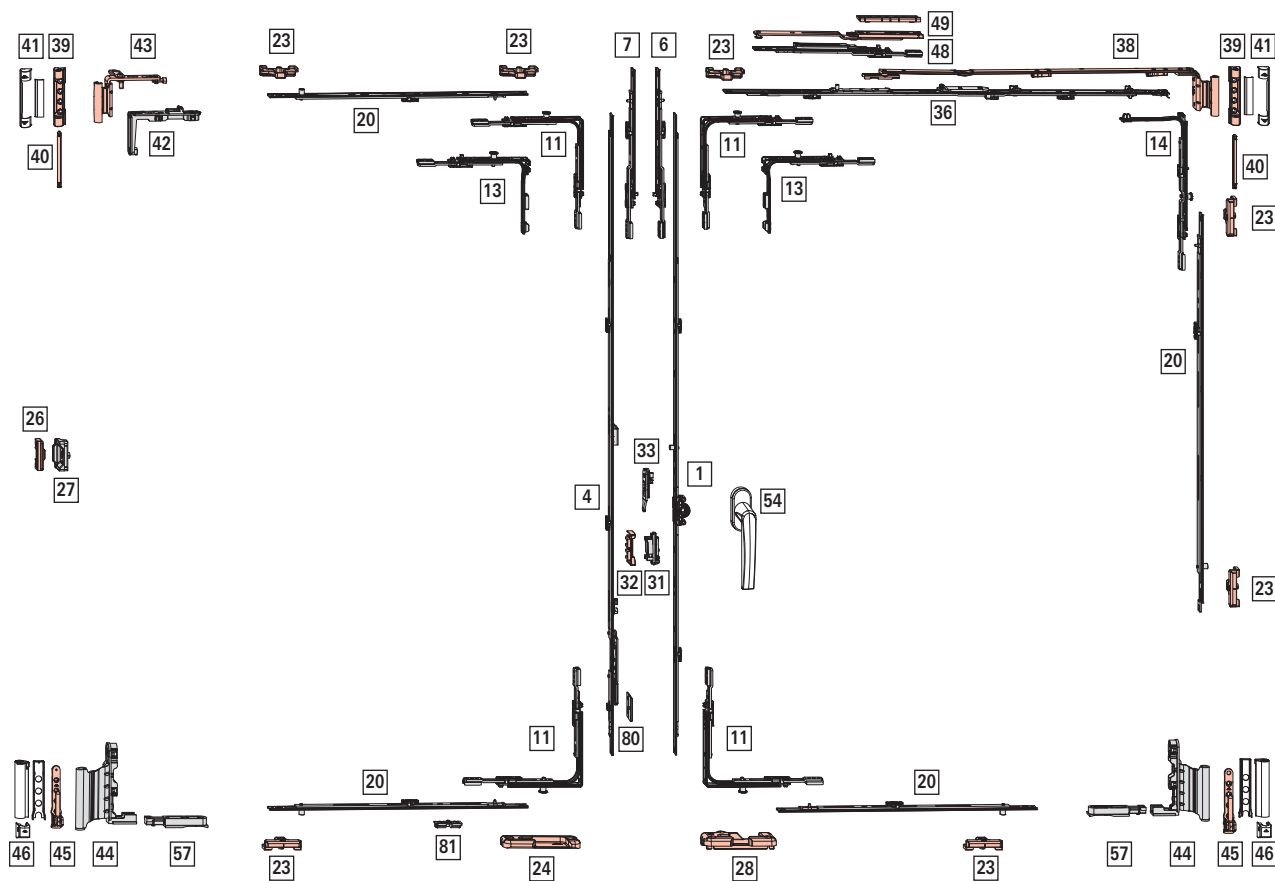
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3.1.1.4 Floating-mullion hardware – standard

3.1.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 195</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	280 – 2800 mm
	S.kg	max. 150 kg



INFO

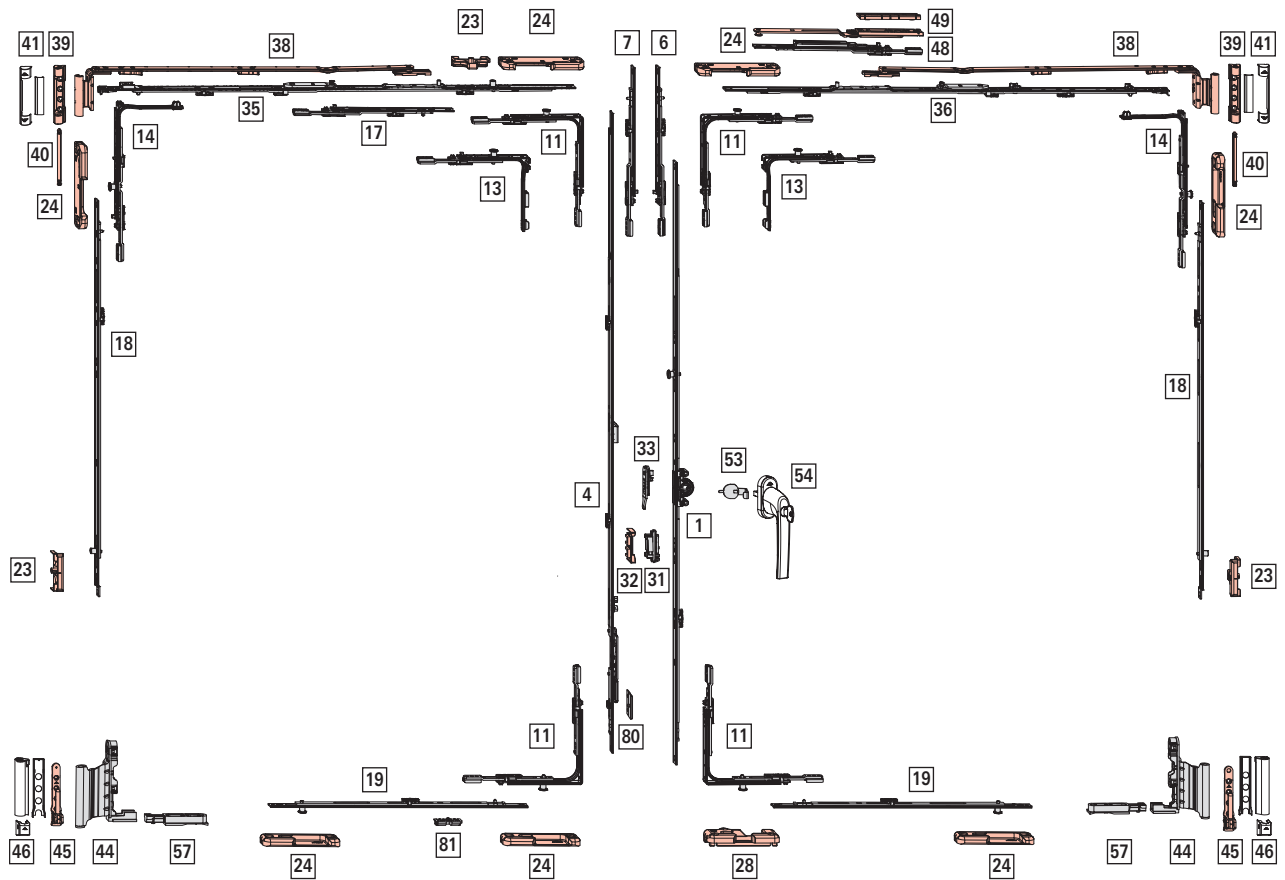
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3.1.1.4.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 195</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[18]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[19]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 222</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	320 – 2800 mm
	S.kg	max. 150 kg



INFO

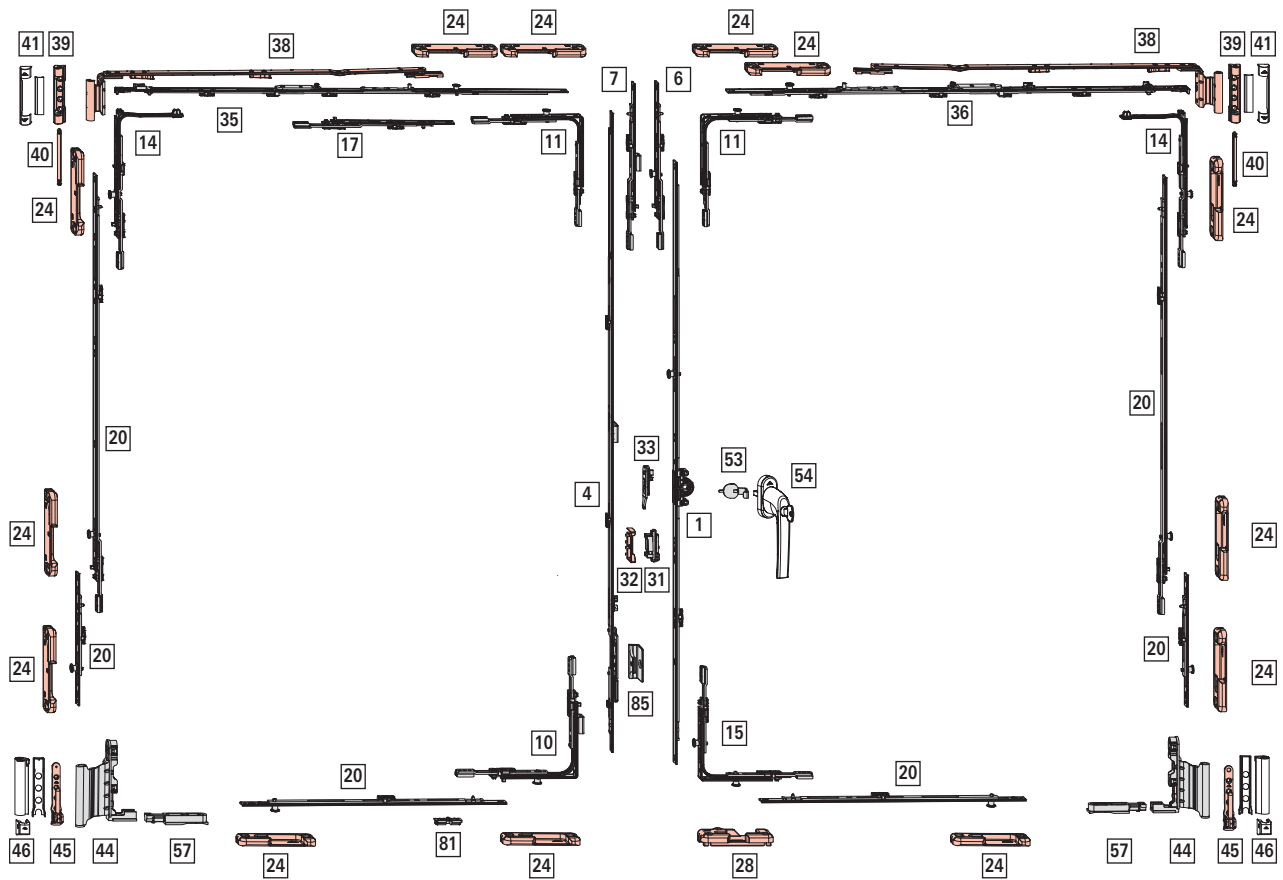
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3.1.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 195</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[10]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[17]	Centre lock, multipart – security → <i>from page 245</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 222</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[81]	Run-up block → <i>from page 312</i>
[85]	Safety device for floating-mullion sash → <i>from page 309</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	600 – 2800 mm
	S.kg	max. 150 kg



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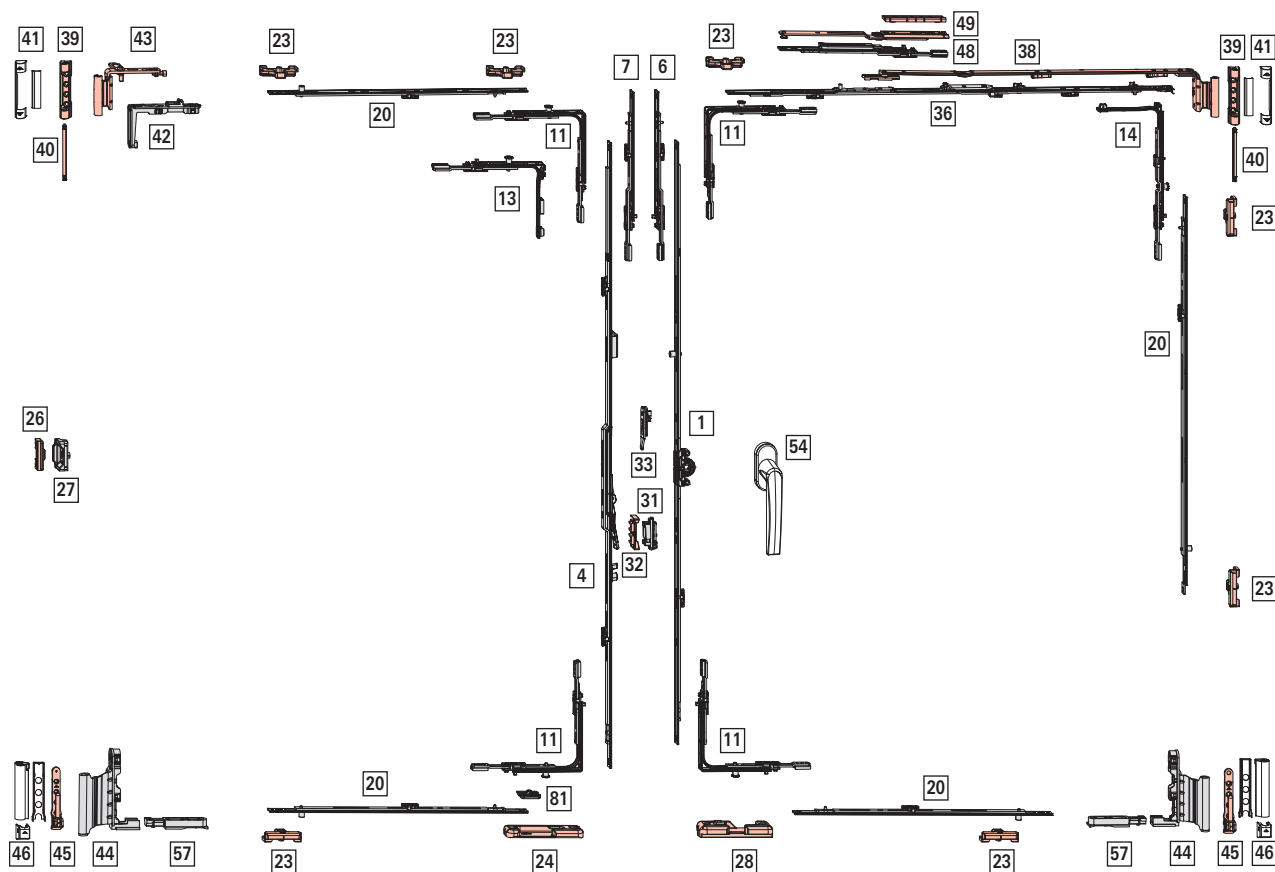
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3.1.1.5 Floating-mullion hardware – Plus

3.1.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 201</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Floating-mullion centre lock → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	430 – 2800 mm
	S.kg	max. 150 kg



INFO

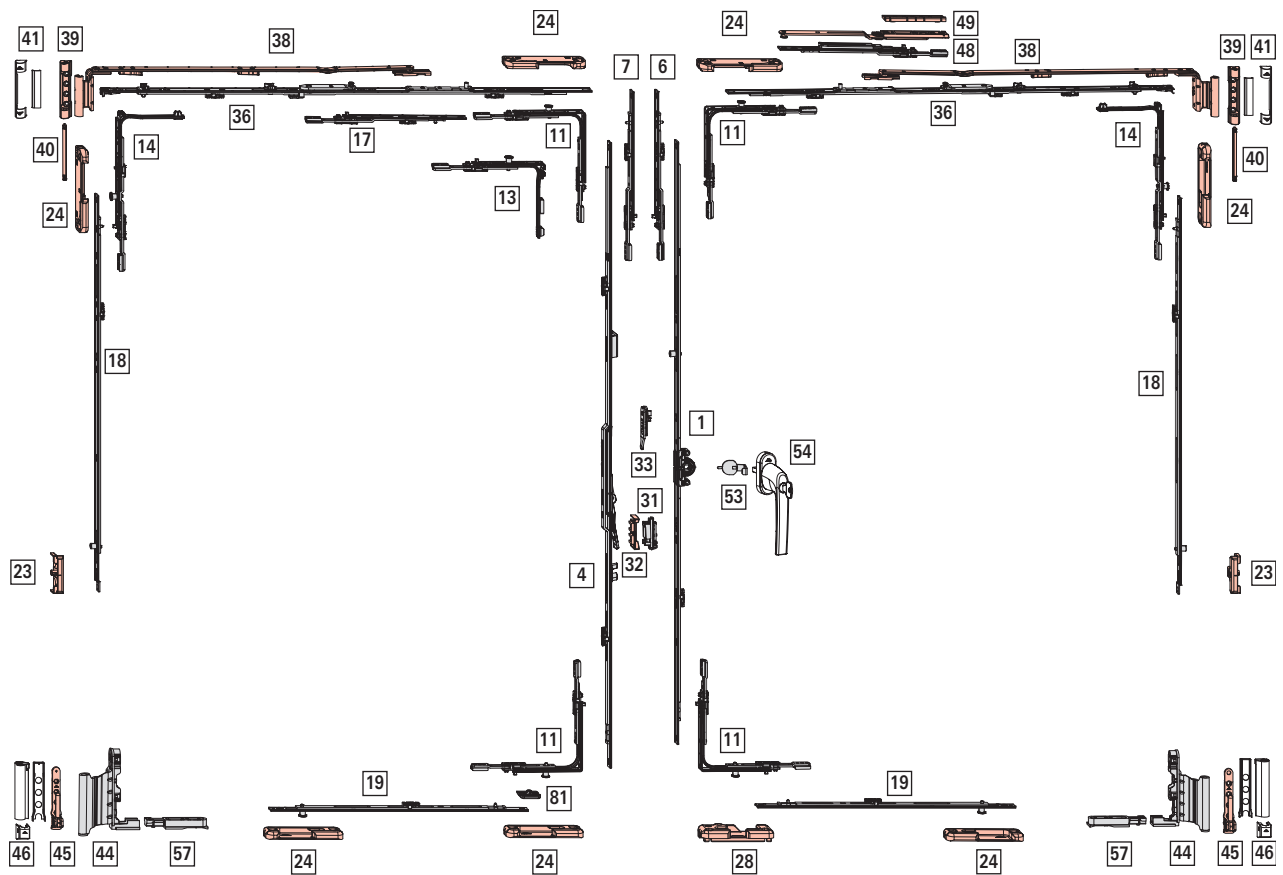
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3.1.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 201</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Floating-mullion centre lock → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – horizontal → <i>from page 244</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	430 – 2800 mm
	S.kg	max. 150 kg



INFO

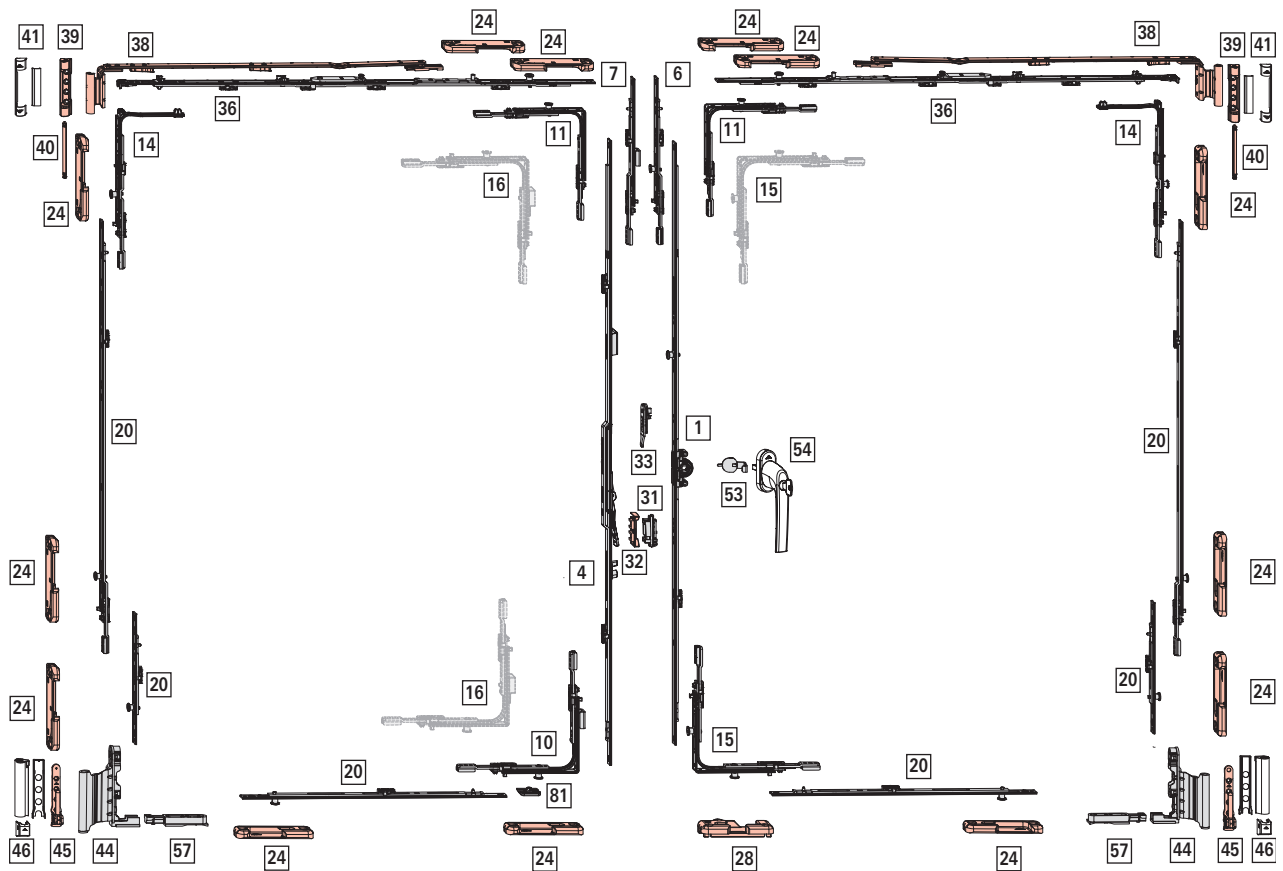
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3.1.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 201</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[7]	Floating-mullion centre lock → <i>from page 248</i>
[10]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 214</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 231</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	600 – 2800 mm
	S.kg	max. 150 kg



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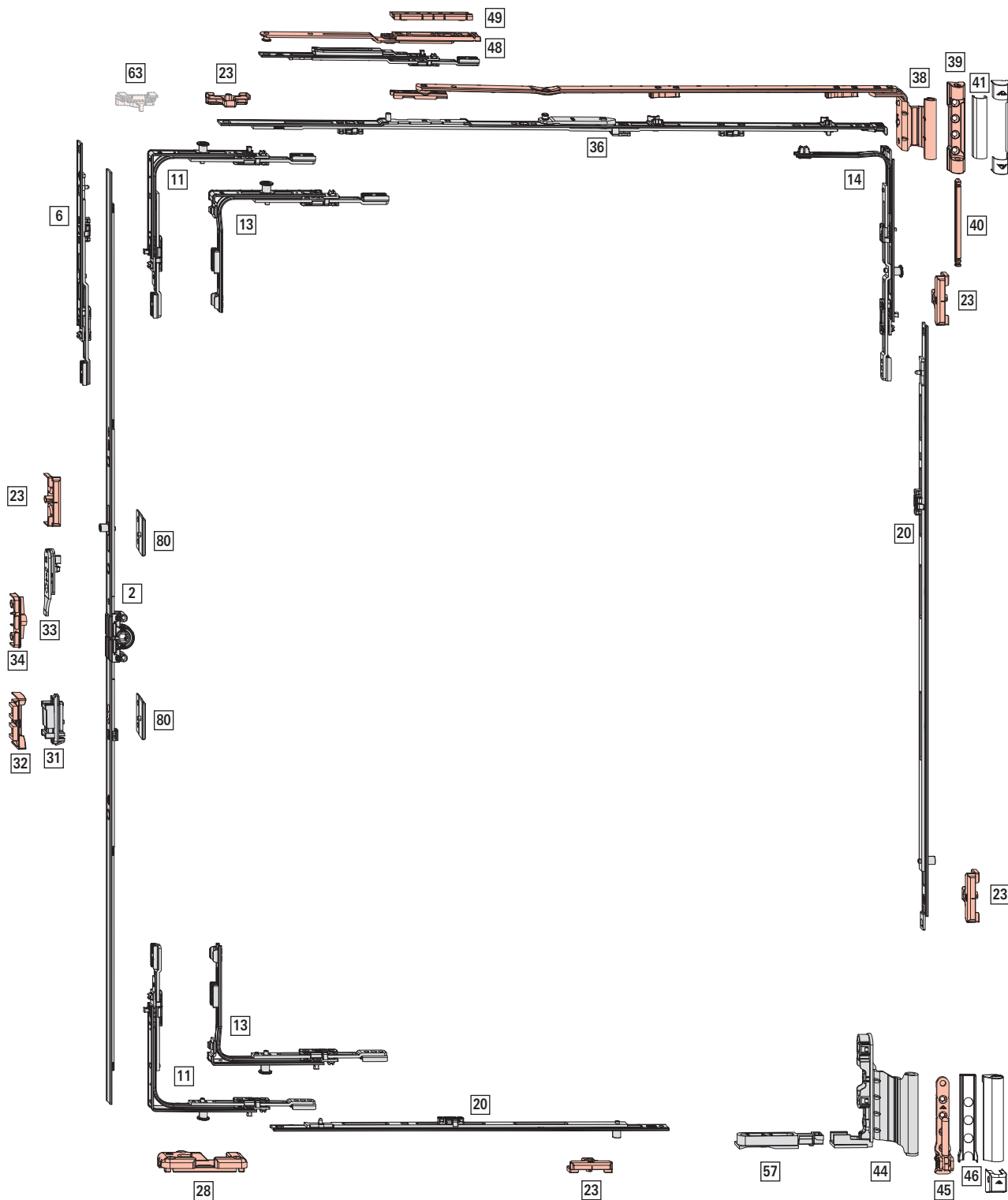


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3.1.2 T&T espagnolette – centred / variable handle height

3.1.2.1 Tilt&Turn hardware

3.1.2.1.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 298</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	310 – 2800 mm
	S.kg	max. 150 kg



INFO

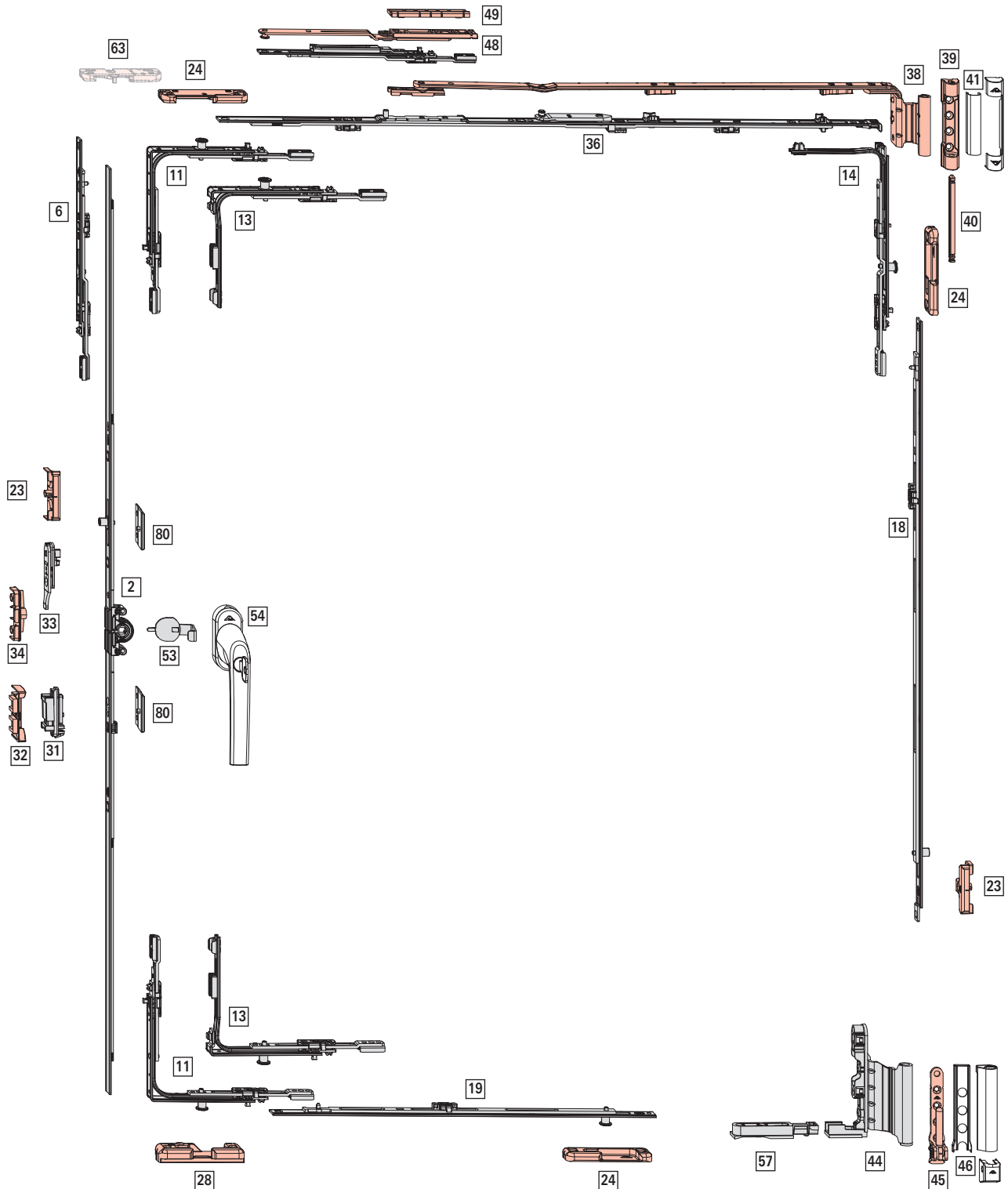
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3.1.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – security → <i>from page 245</i>
[19]	Centre lock, multipart – security → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 298</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	320 – 2800 mm
	S.kg	max. 150 kg



INFO

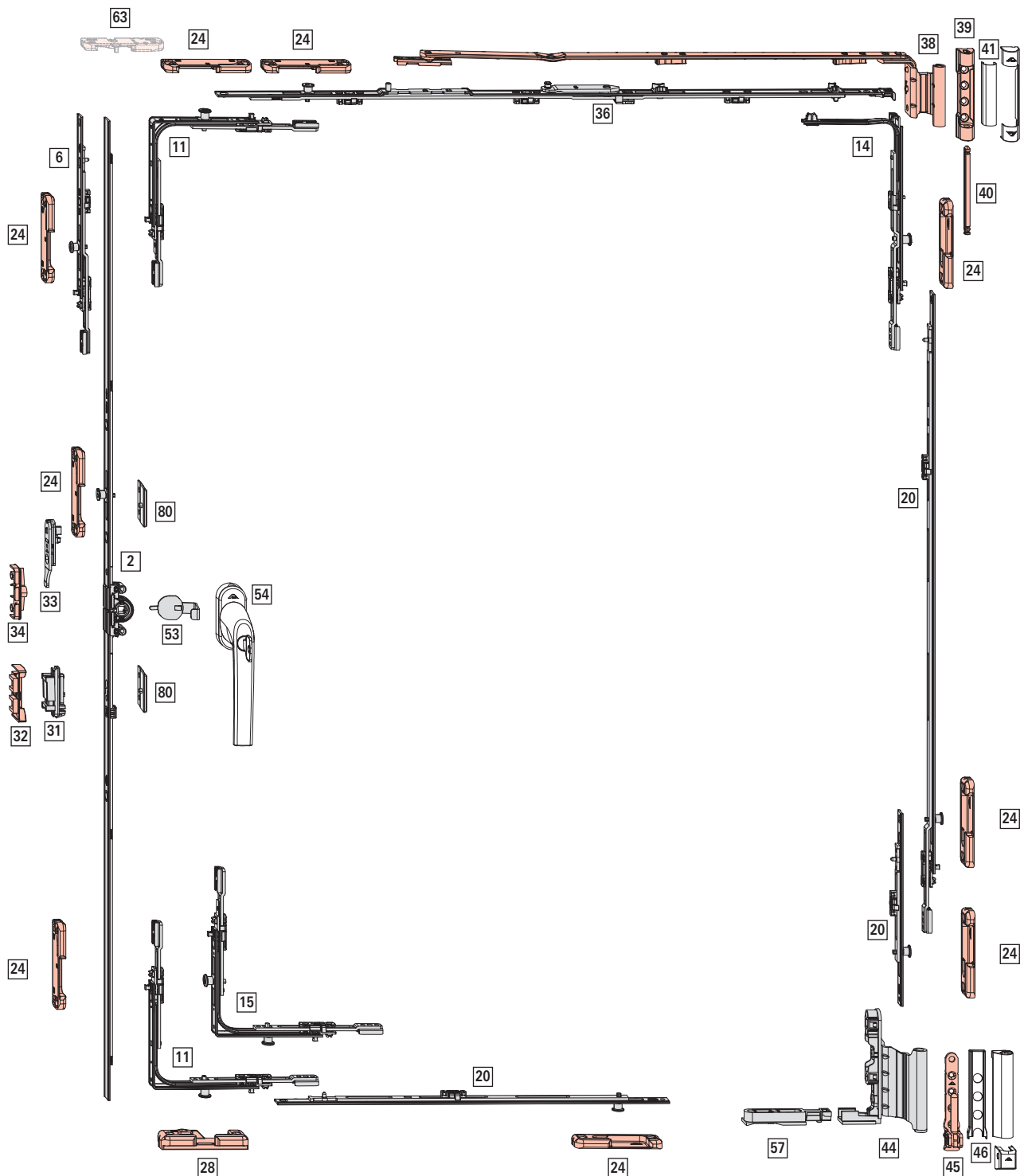
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3.1.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[63]	Night vent (optional from SRW > 600 mm) → <i>from page 298</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	490 – 2800 mm
	S.kg	max. 150 kg



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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 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	TiltFirst tilt striker → <i>from page 274</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	TiltFirst stay arm → <i>from page 226</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	TiltFirst additional stay arm → <i>from page 285</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	310 – 2800 mm
	S.kg	max. 150 kg



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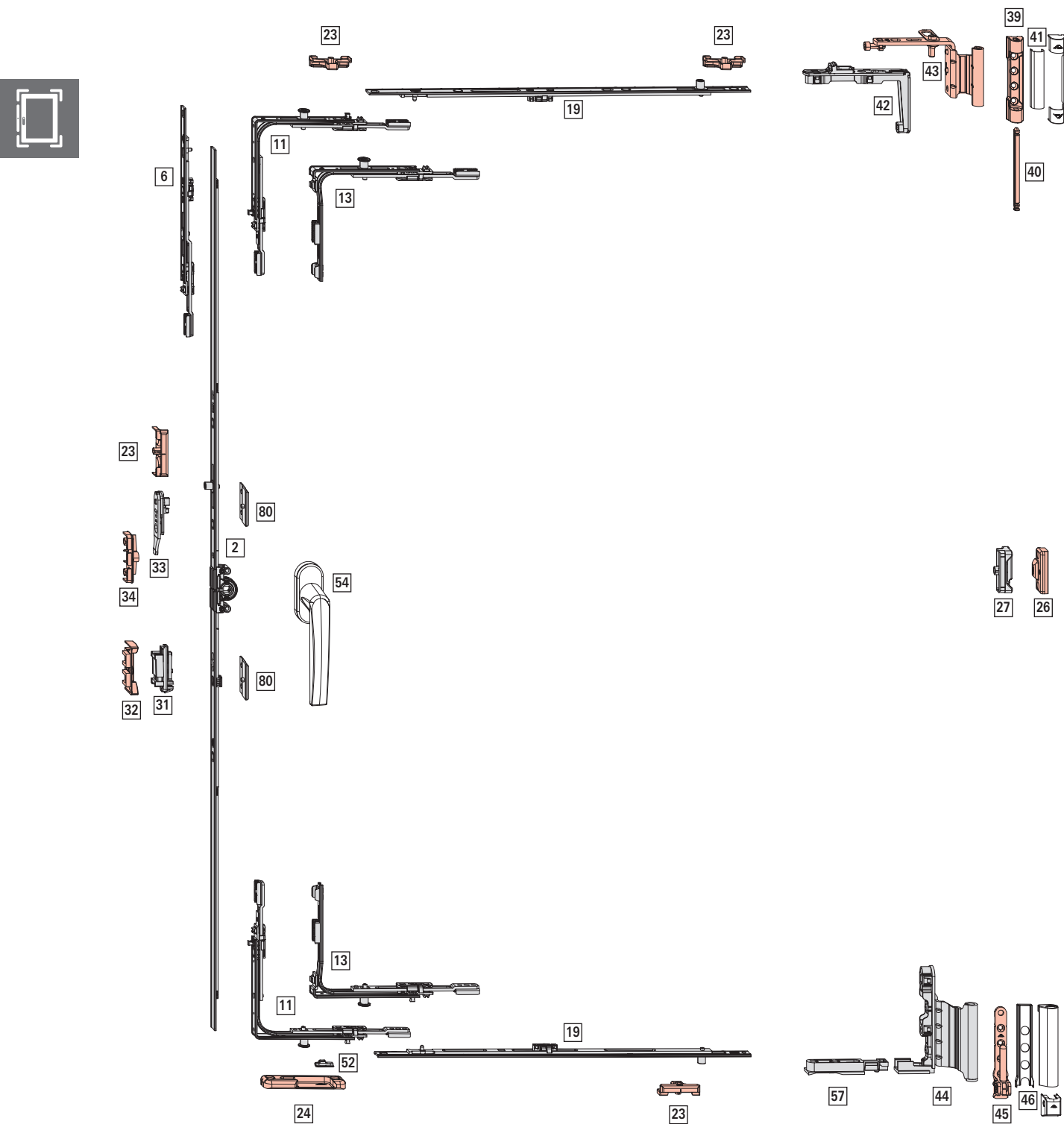
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3.1.2.3 Turn-Only hardware

3.1.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[52]	Travel restrictor → <i>from page 318</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	310 – 2800 mm
	S.kg	max. 150 kg



INFO

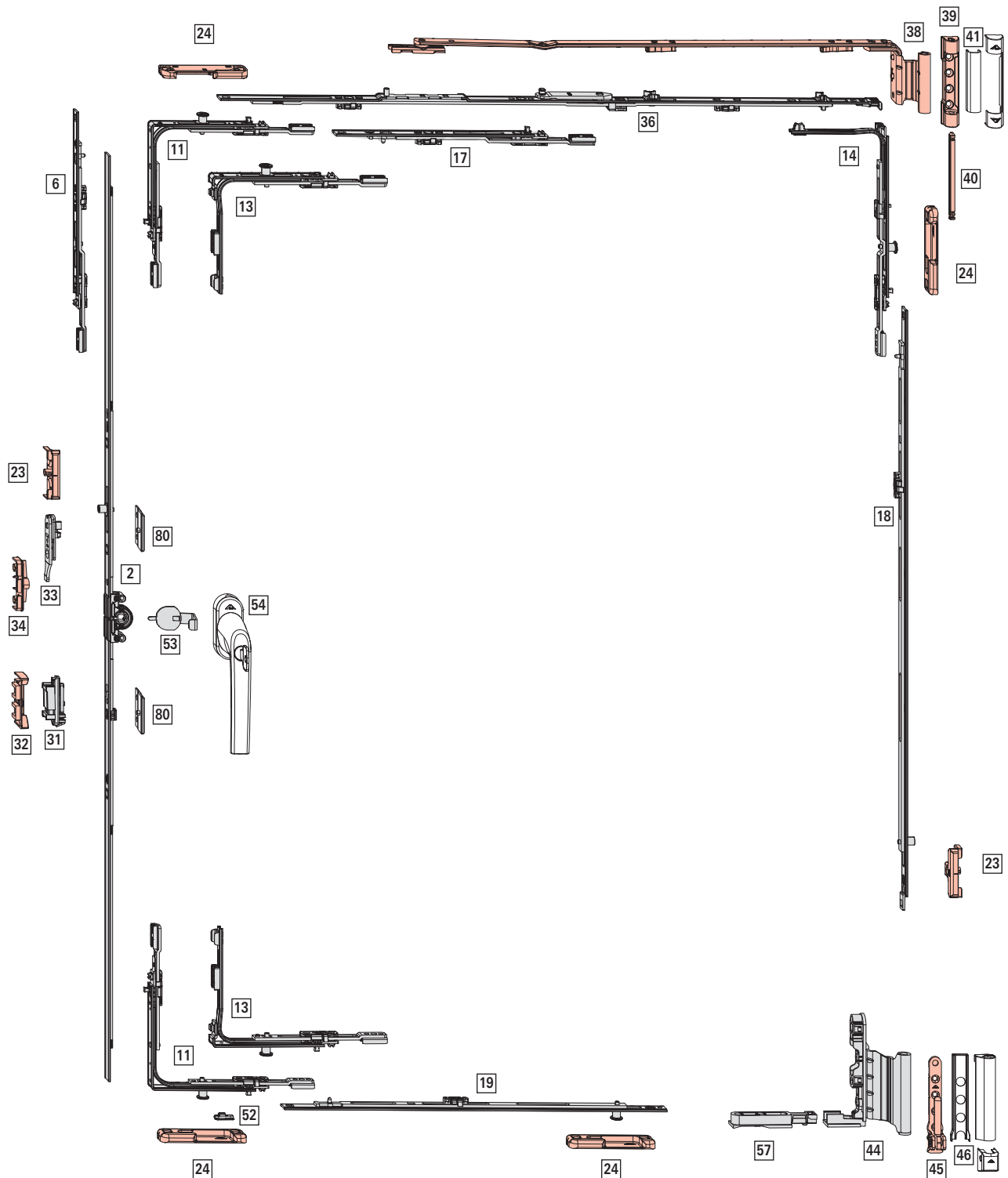
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3.1.2.3.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[52]	Travel restrictor → <i>from page 318</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

RC 1 N		
	SRW	400 – 1400 mm
	SRH	320 – 2800 mm
	S.kg	max. 150 kg



INFO

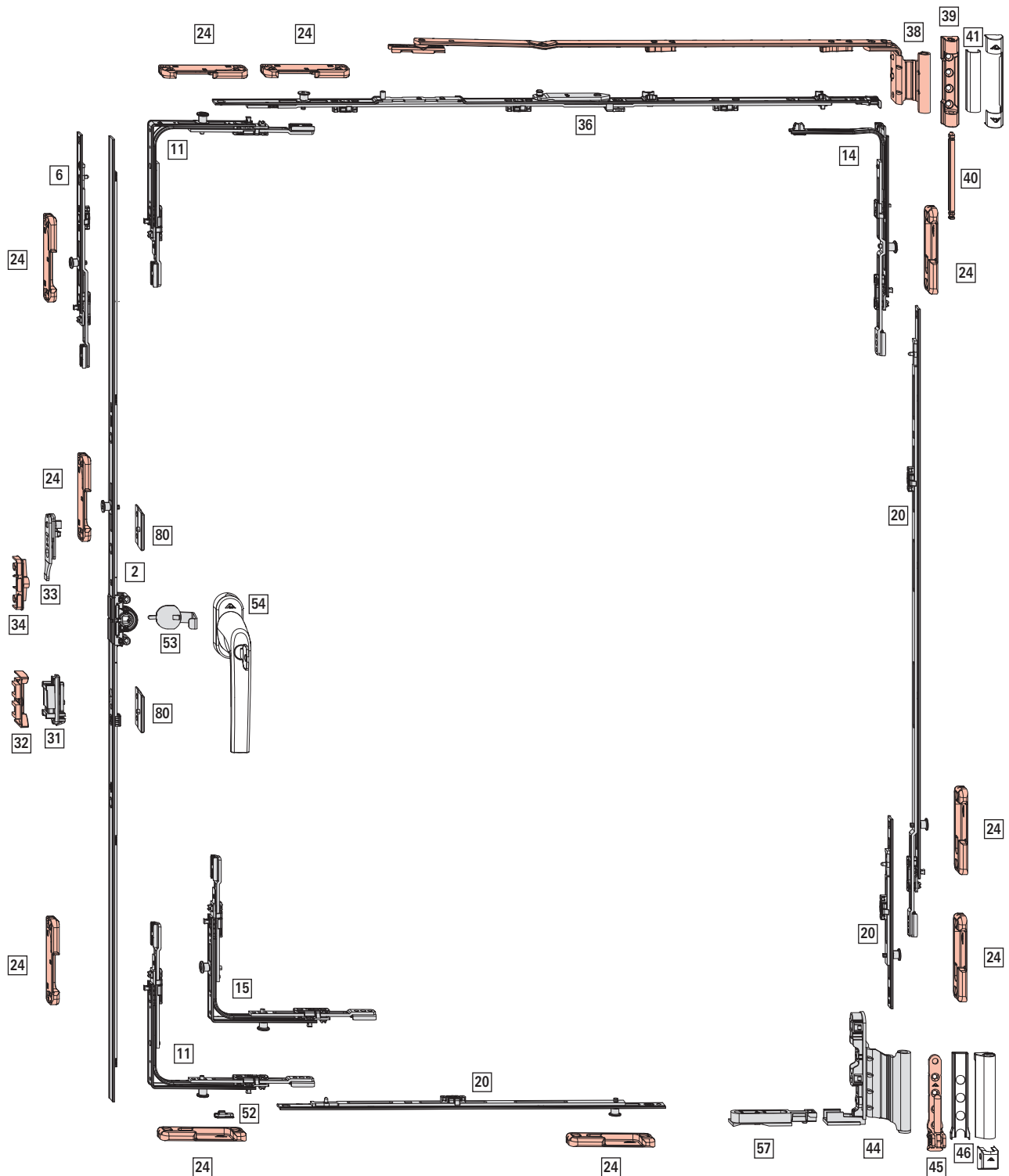
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3.1.2.3.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[52]	Travel restrictor → <i>from page 318</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle, lockable (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	490 – 2800 mm
	S.kg	max. 150 kg



INFO

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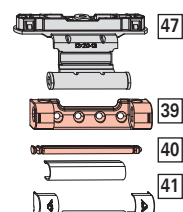
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3.1.2.4.1 Basic security

3.1.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[11]	Corner drive, standard → <i>from page 212</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[47]	Turn-Only / Tilt-Only rebate hinge → <i>from page 232</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[52]	Travel restrictor → <i>from page 318</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 287</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security		
	SRW	450 – 2400 mm
	SRH	290 – 1200 mm
	S.kg	max. 80 kg



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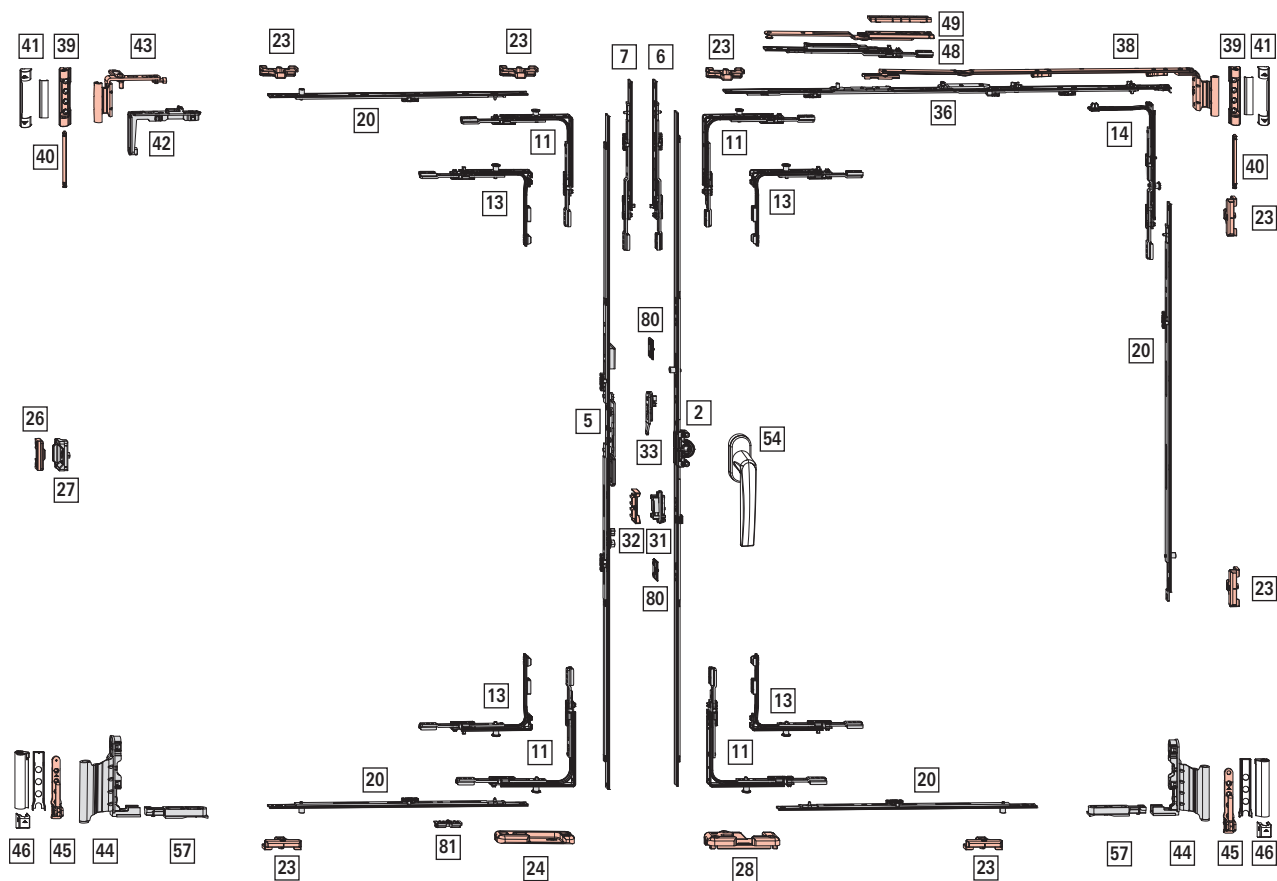
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3.1.2.5 Floating-mullion hardware – standard

3.1.2.5.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 198</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	370 – 2800 mm
	S.kg	max. 150 kg



INFO

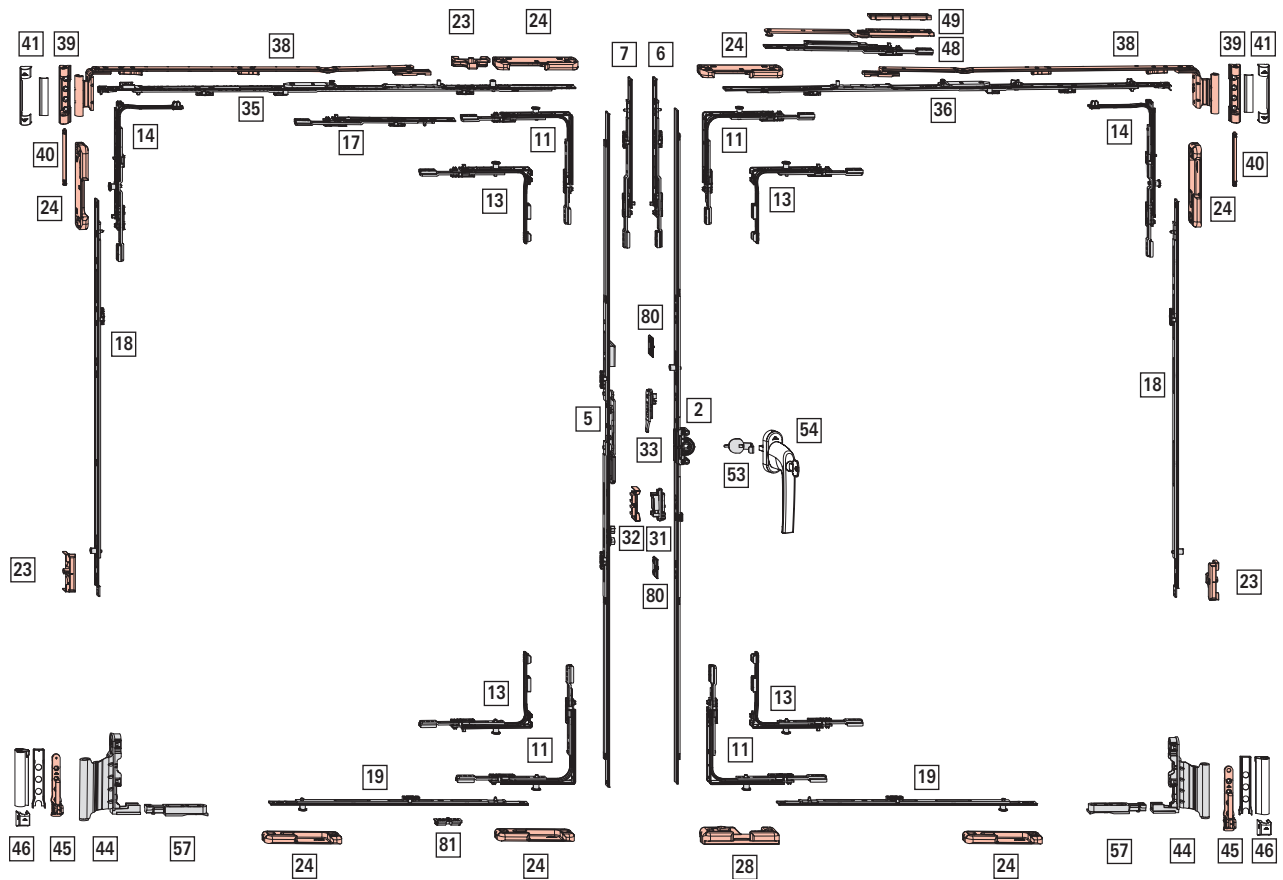
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3.1.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 198</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 245</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 223</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	370 – 2800 mm
	S.kg	max. 150 kg



INFO

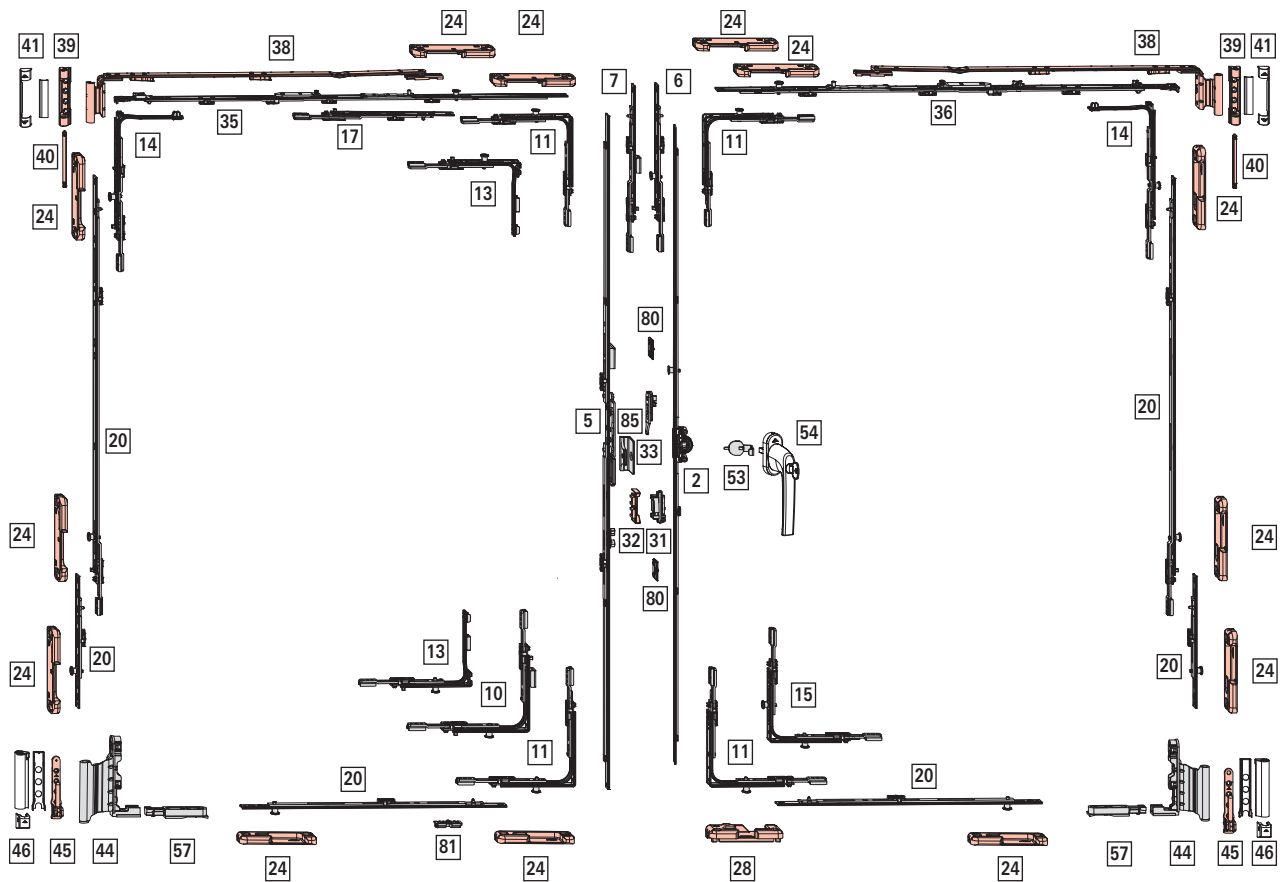
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3.1.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 198</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[10]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[17]	Centre lock, multipart – security → <i>from page 245</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 223</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>
[85]	Retainer clasp for floating-mullion sash → <i>from page 309</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1400 mm
	SRH	520 – 2800 mm
	S.kg	max. 150 kg



INFO

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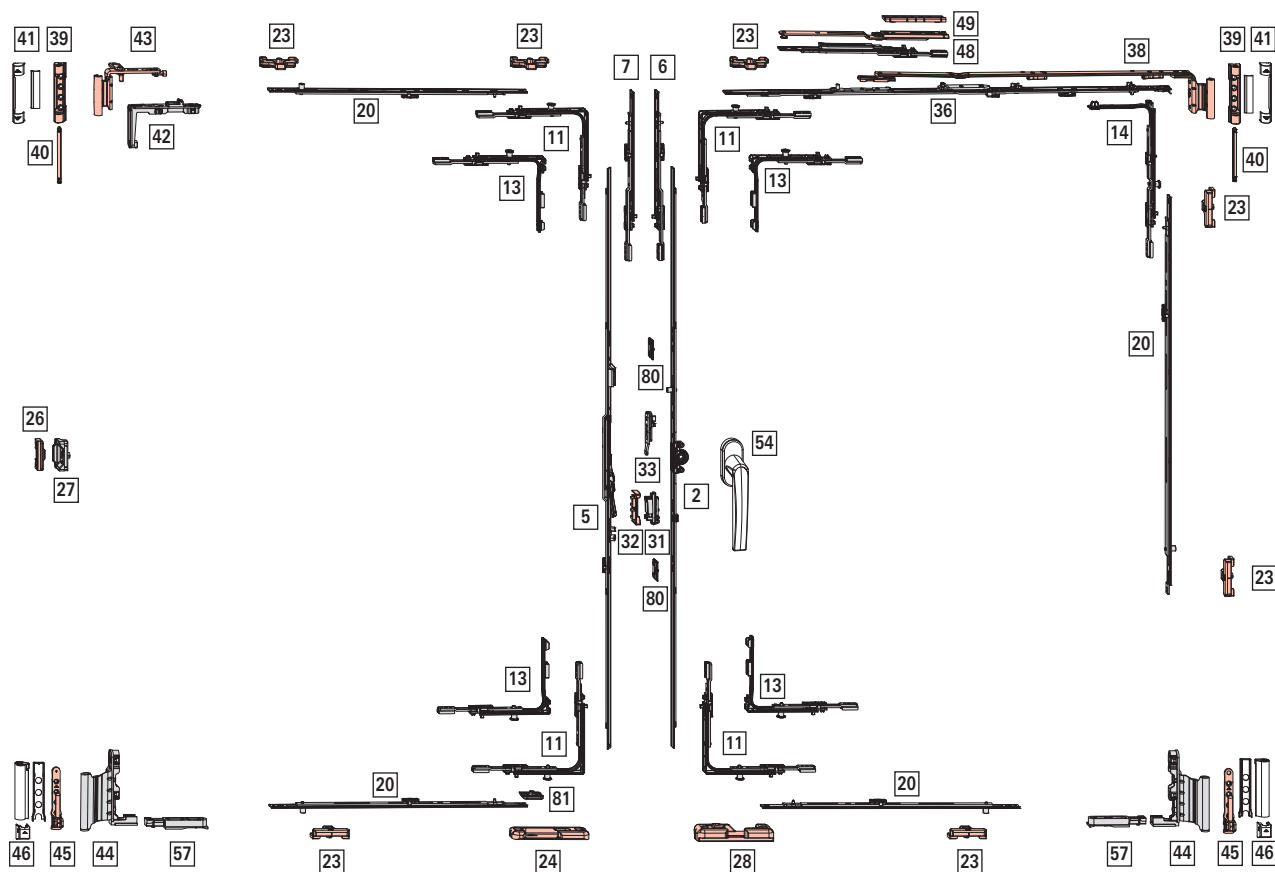
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3.1.2.6 Floating-mullion hardware – Plus

3.1.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 204</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[20]	Centre lock, multipart – standard, horizontal and vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 315</i>
[27]	Centre closer, concealed, sash component → <i>from page 315</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security		
	SRW	290 – 1600 mm
	SRH	420 – 2800 mm
	S.kg	max. 150 kg



INFO

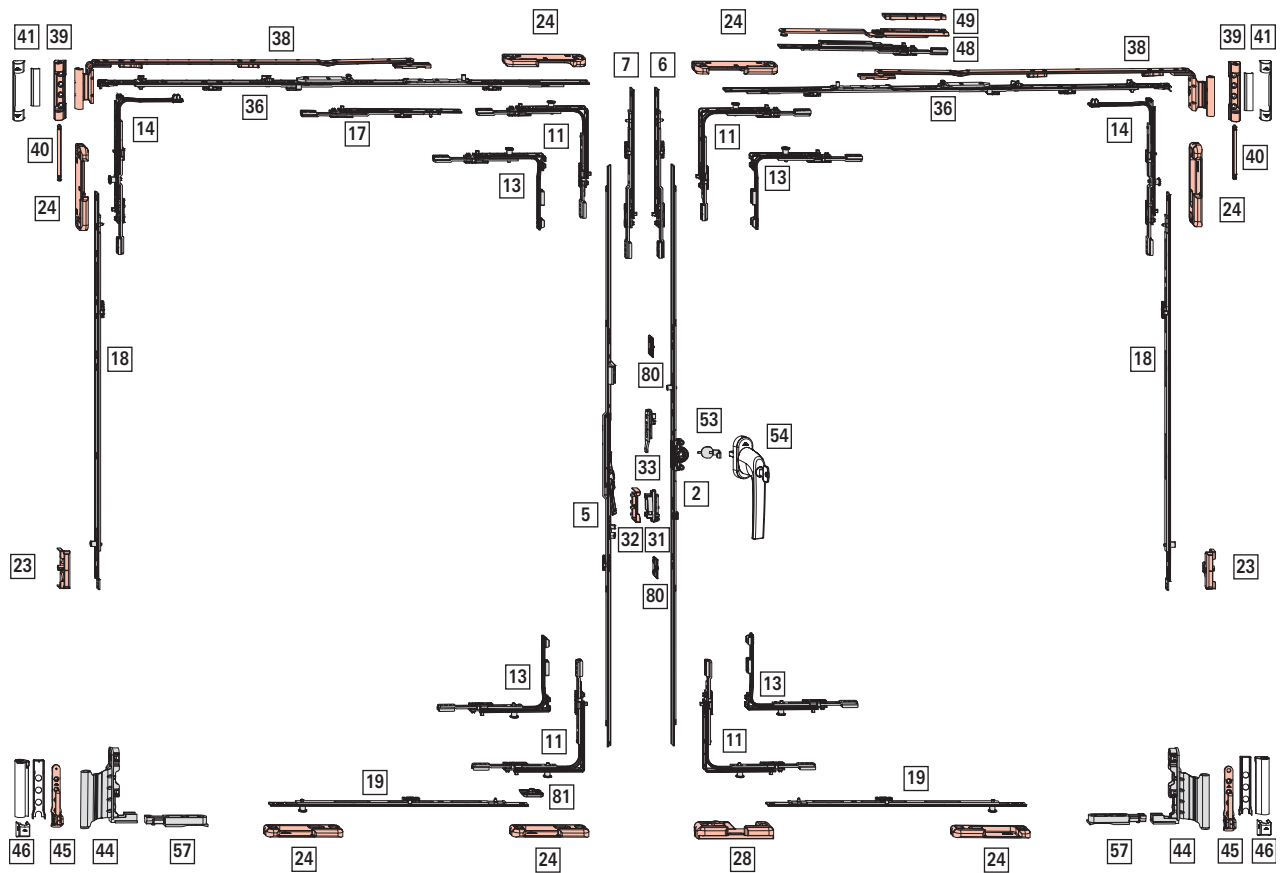
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3.1.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 204</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 245</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer → <i>from page 314</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N		
	SRW	400 – 1600 mm
	SRH	420 – 2800 mm
	S.kg	max. 150 kg



INFO

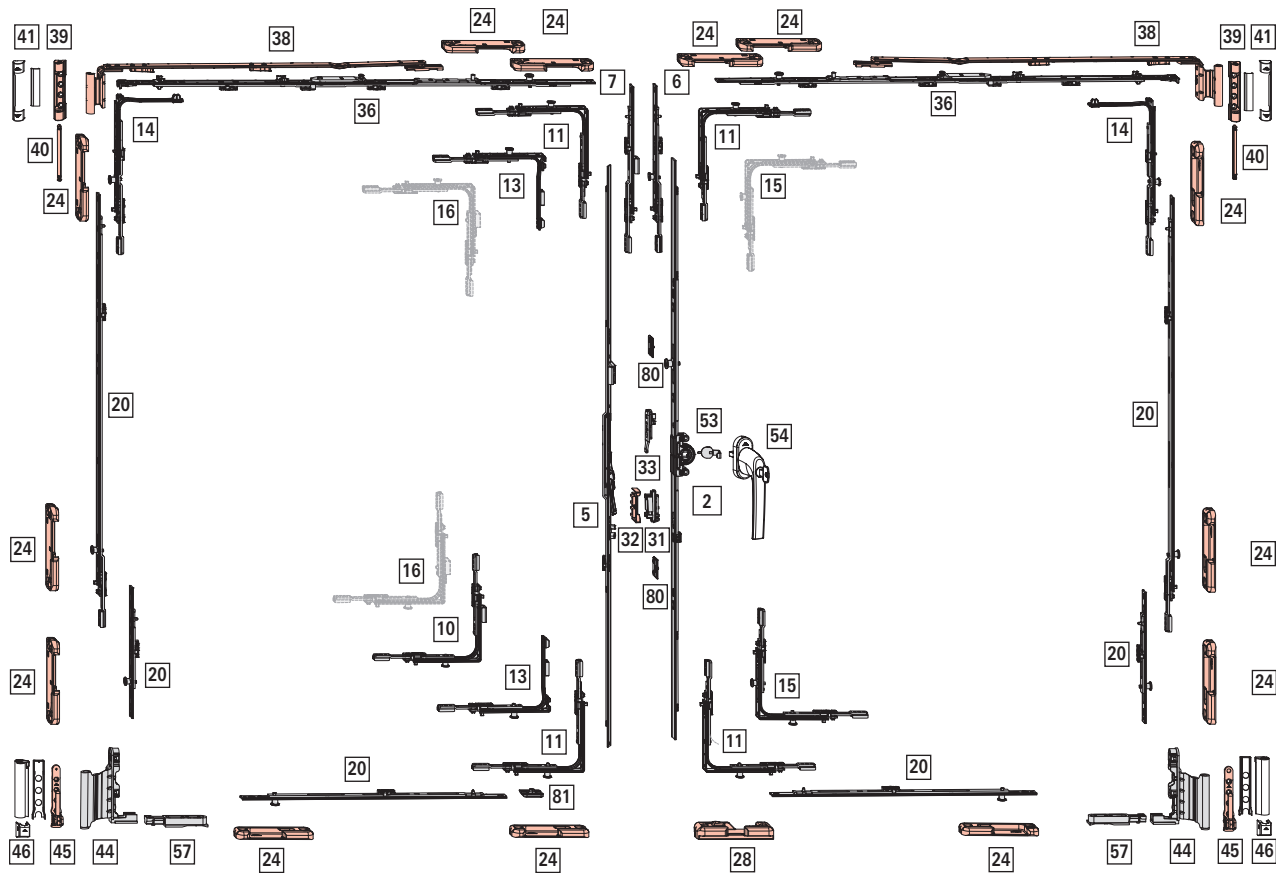
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3.1.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 204</i>
[6]	Centre lock, multipart – security → <i>from page 245</i>
[7]	Centre lock, multipart – floating mullion → <i>from page 248</i>
[10]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 214</i>
[20]	Centre lock, multipart – security → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Security stay guide → <i>from page 222</i>
[38]	Stay arm → <i>from page 225</i>
[39]	Stay bearing → <i>from page 233</i>
[40]	Stay-bearing pin → <i>from page 235</i>
[41]	Sash stay cover caps → <i>from page 236</i>
[44]	Rebate corner hinge → <i>from page 259</i>
[45]	Pivot rest → <i>from page 262</i>
[46]	Rebate corner hinge / pivot rest cover caps → <i>from page 265</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[57]	Rebate corner hinge extension → <i>from page 259</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 2 / RC 2 N		
	SRW	490 – 1600 mm
	SRH	520 – 2800 mm
	S.kg	max. 150 kg



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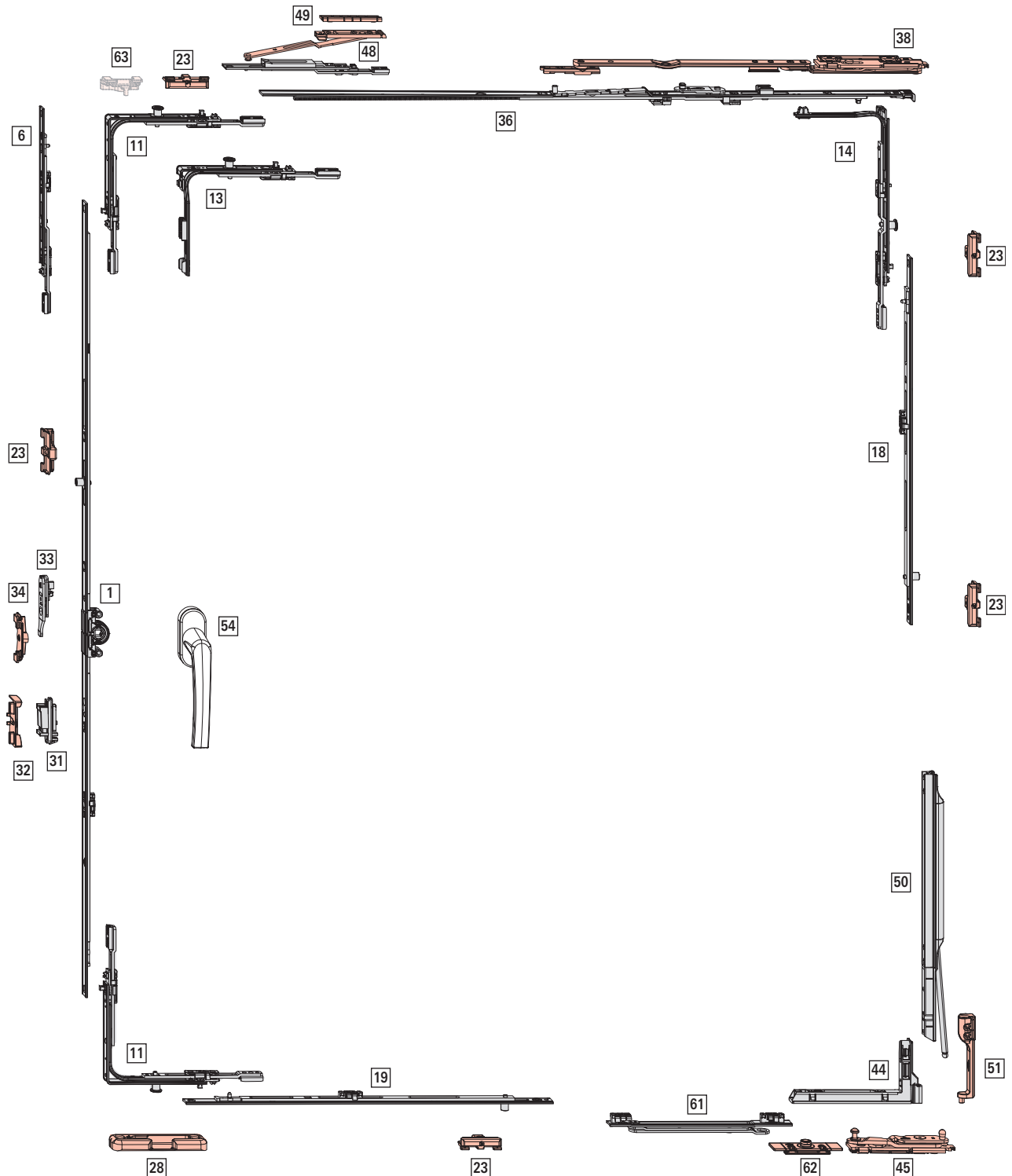
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3.2 Hinge side Designo A16

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 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	330 – 1400 mm	800 – 1400 mm
	SRH	280 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



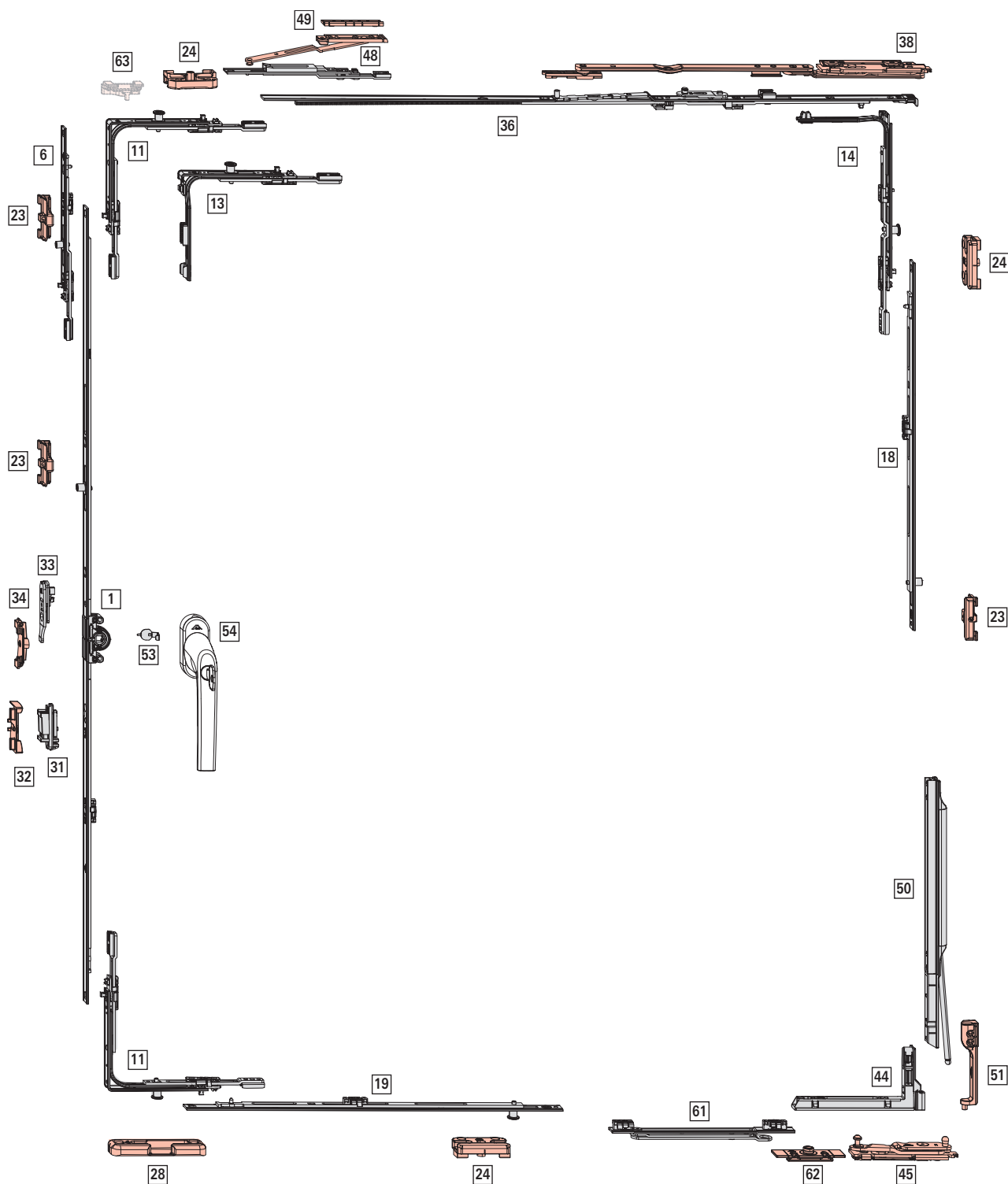
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3.2.1.1.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>

Application range

RC 1 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	280 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

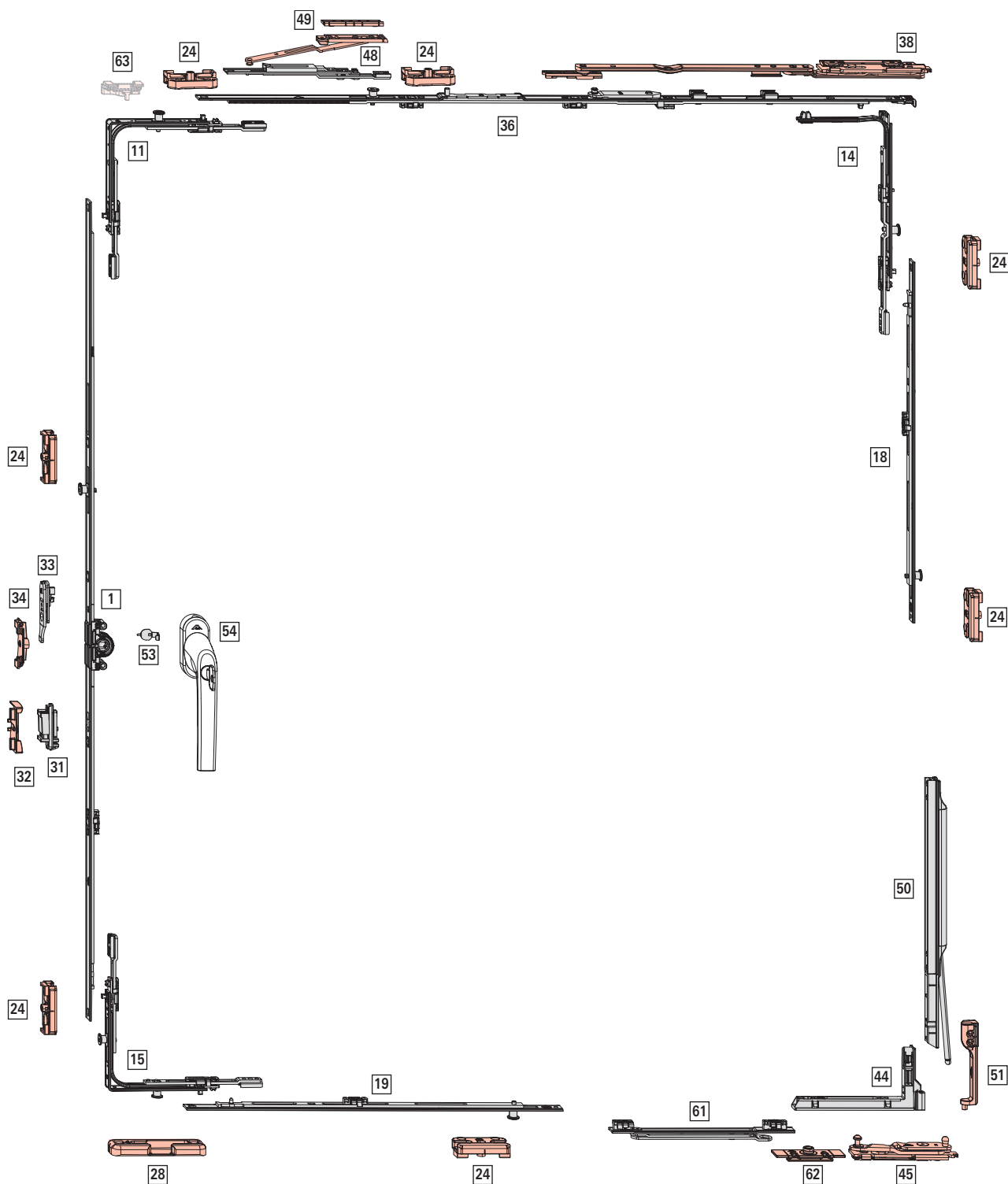
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3.2.1.1.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 273</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 300</i>
[36]	Security stay guide → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>

Application range

RC 2 / RC 2 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	600 – 2400 mm	1000 – 2400 mm
	S.kg	max. 100 kg	max. 150 kg



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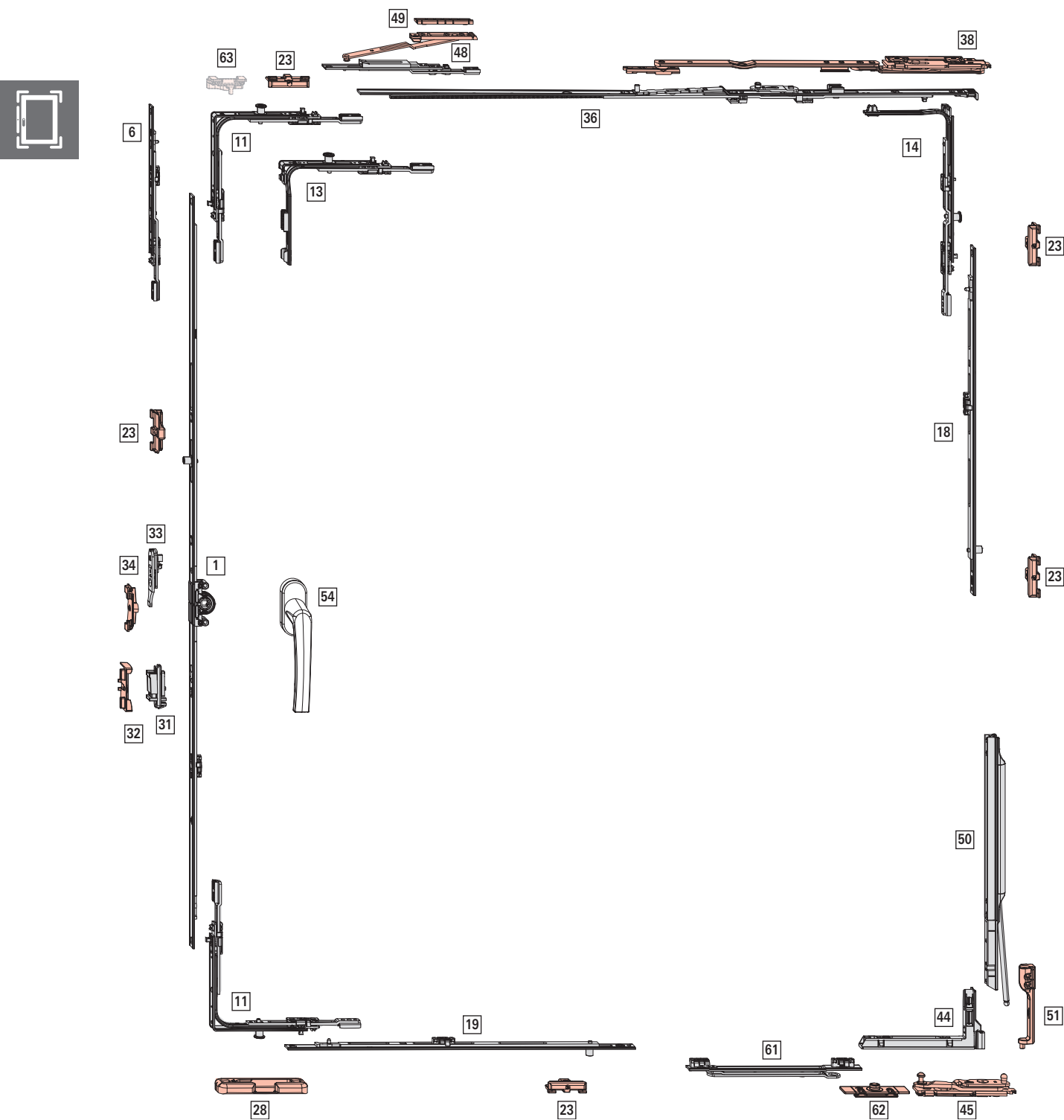
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3.2.1.2 TiltFirst hardware

3.2.1.2.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	330 – 1400 mm	800 – 1400 mm
	SRH	280 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



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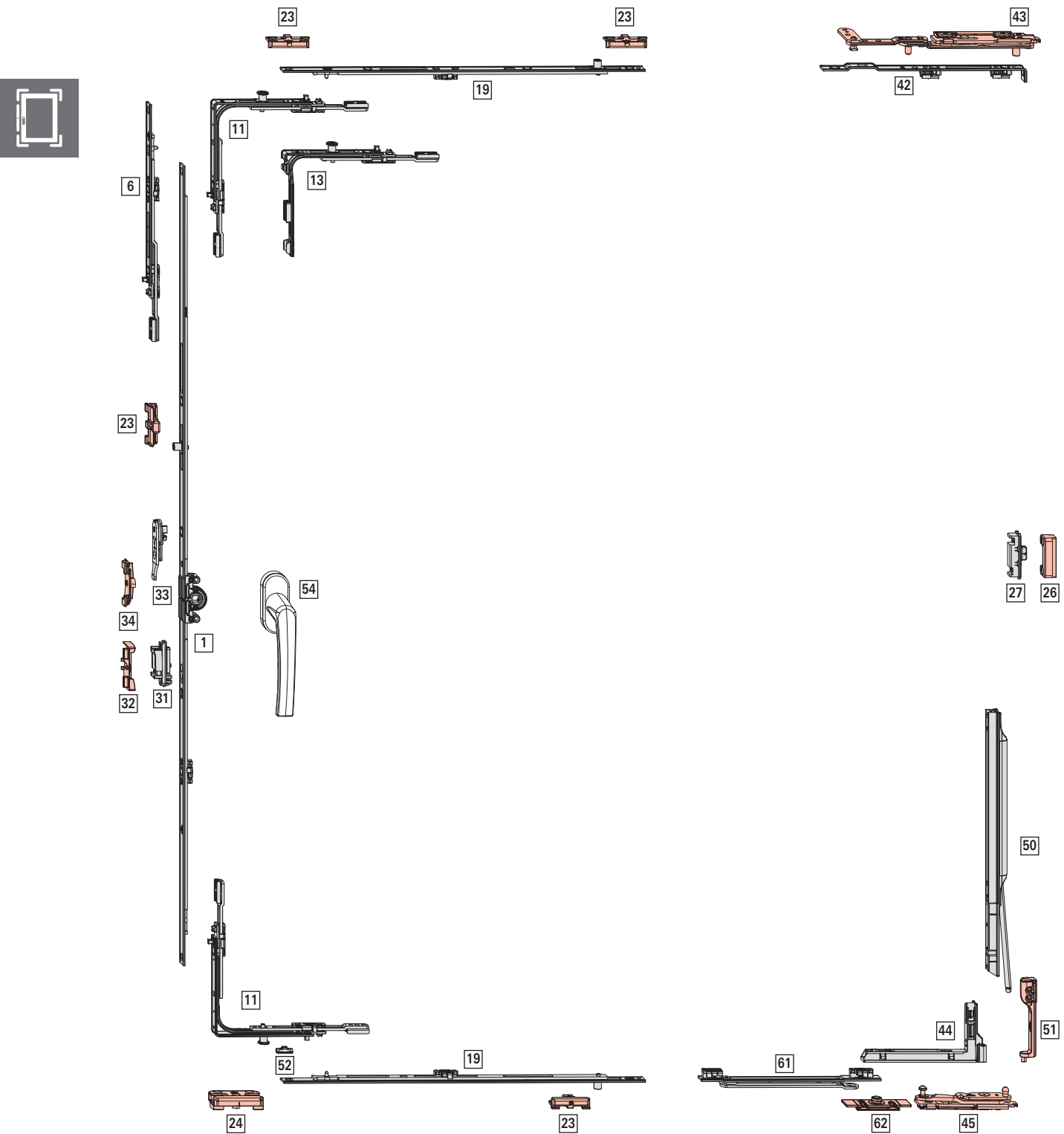
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3.2.1.3 Turn-Only hardware

3.2.1.3.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[52]	Travel restrictor → <i>from page 318</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	370 – 1400 mm	800 – 1400 mm
	SRH	280 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



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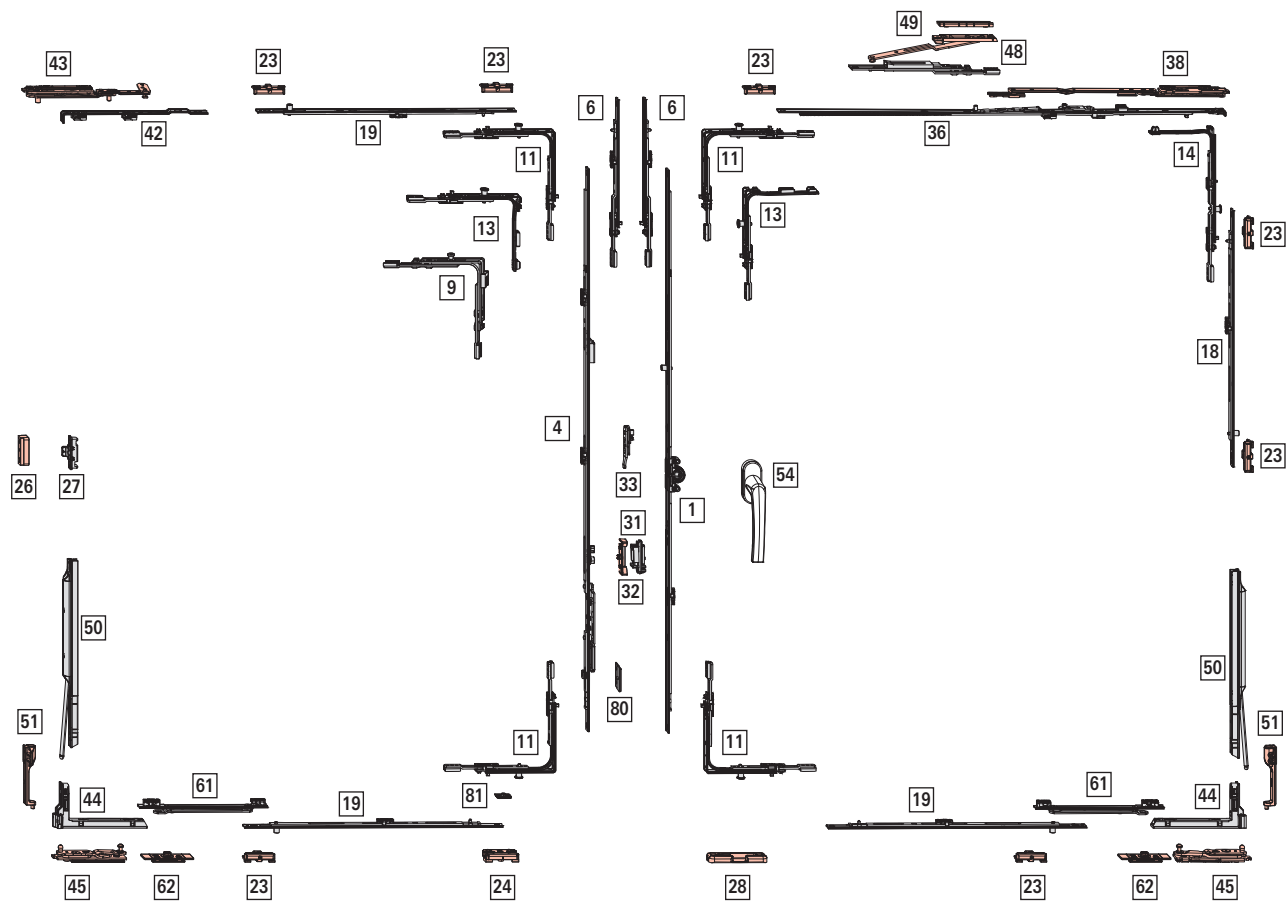
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3.2.1.4 Floating-mullion hardware – standard

3.2.1.4.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 195</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[9]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	370 – 1400 mm	800 – 1400 mm
	SRH	430 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



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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 164</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 195</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 244</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	430 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

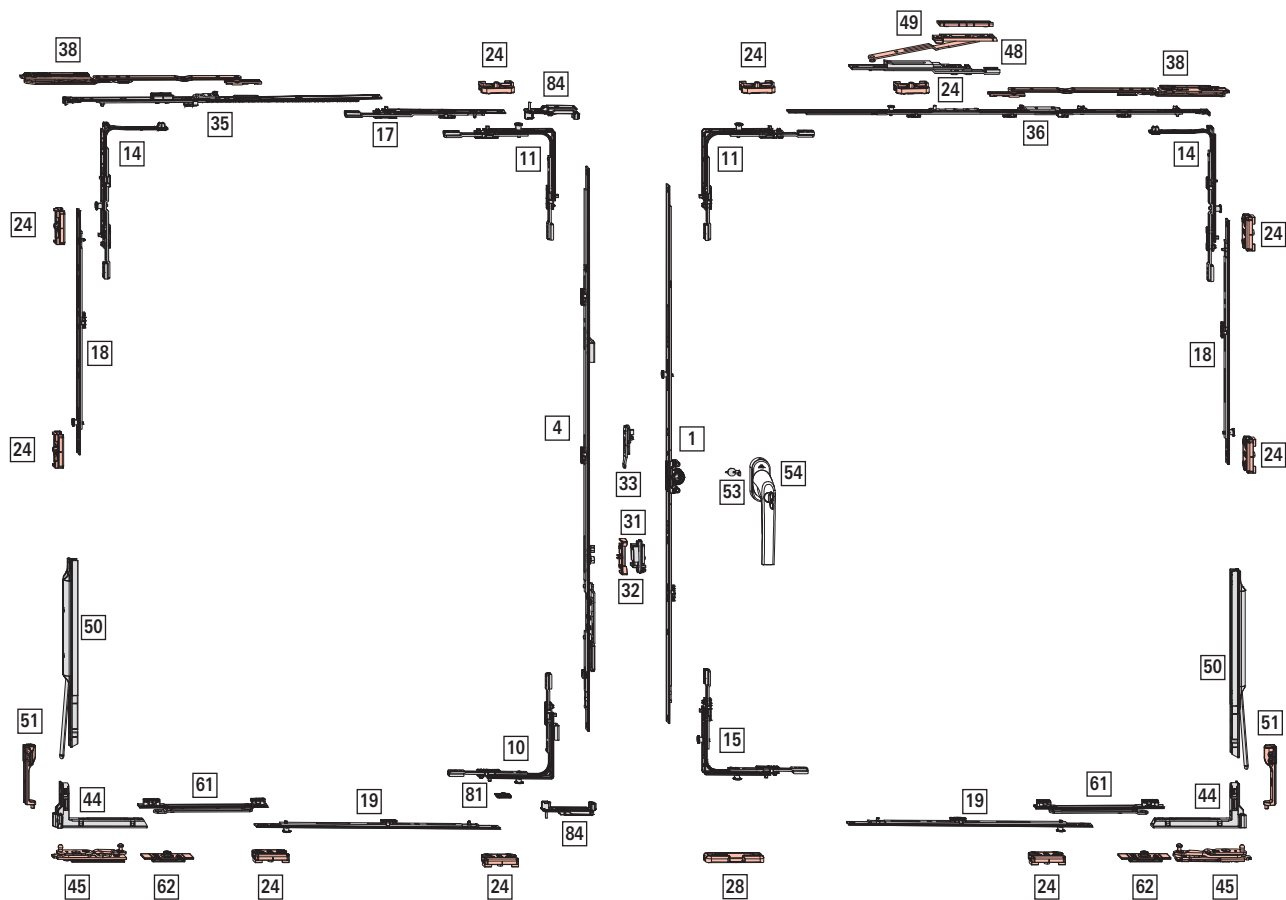
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3.2.1.4.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette, standard VT – fixed handle height → <i>from page 195</i>
[10]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[17]	Centre lock, multipart – security, horizontal – top, Turn-Only sash → <i>from page 244</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 273</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Security stay guide → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[81]	Run-up block → <i>from page 312</i>
[84]	Safety device for floating-mullion sash → <i>from page 309</i>

Application range

RC 2 / RC 2 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	600 – 2400 mm	1000 – 2400 mm
	S.kg	max. 100 kg	max. 150 kg



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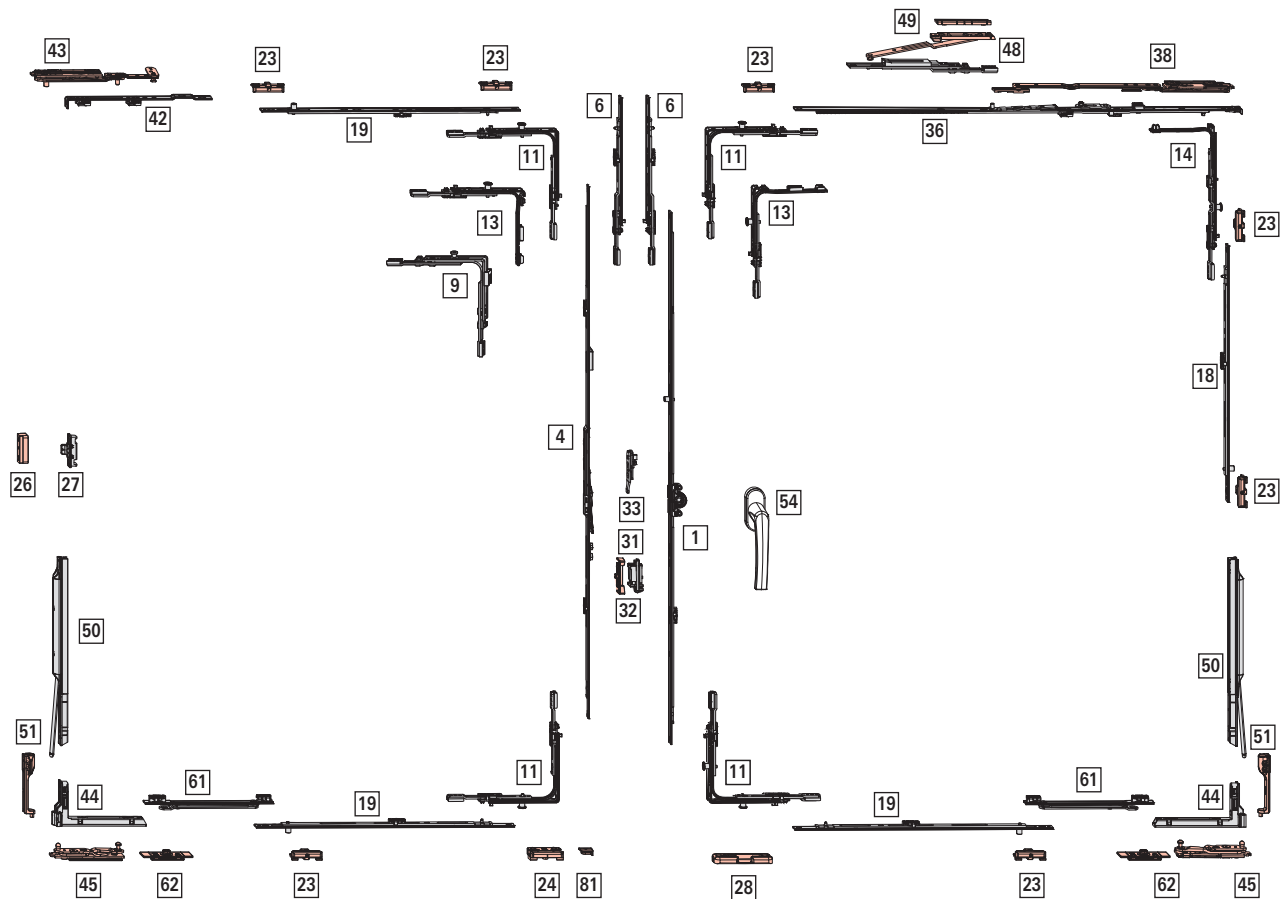
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3.2.1.5 Floating-mullion hardware – Plus

3.2.1.5.1 Basic security





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 201</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[9]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	370 – 1400 mm	800 – 1400 mm
	SRH	430 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

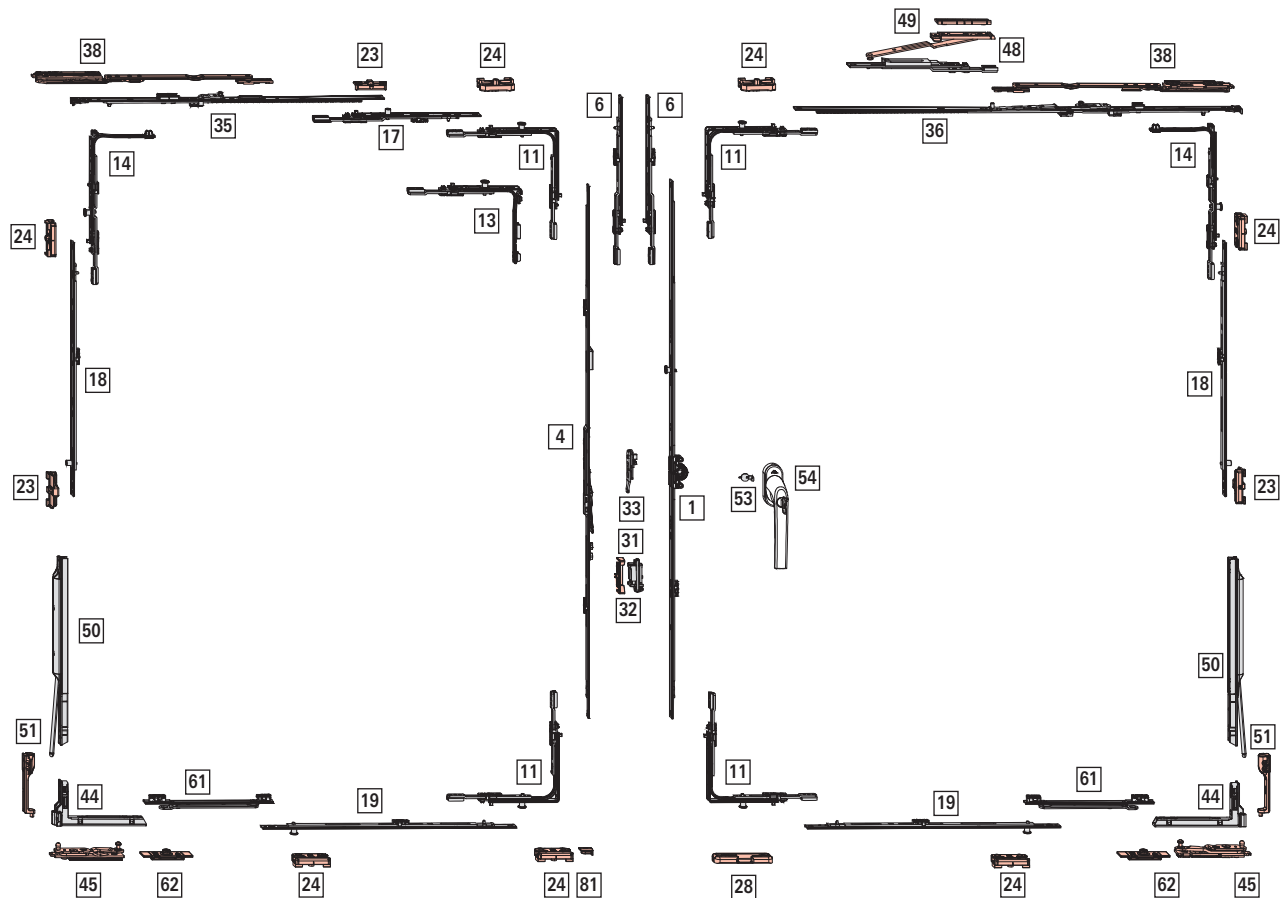
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3.2.1.5.2 RC 1 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 201</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 244</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	430 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

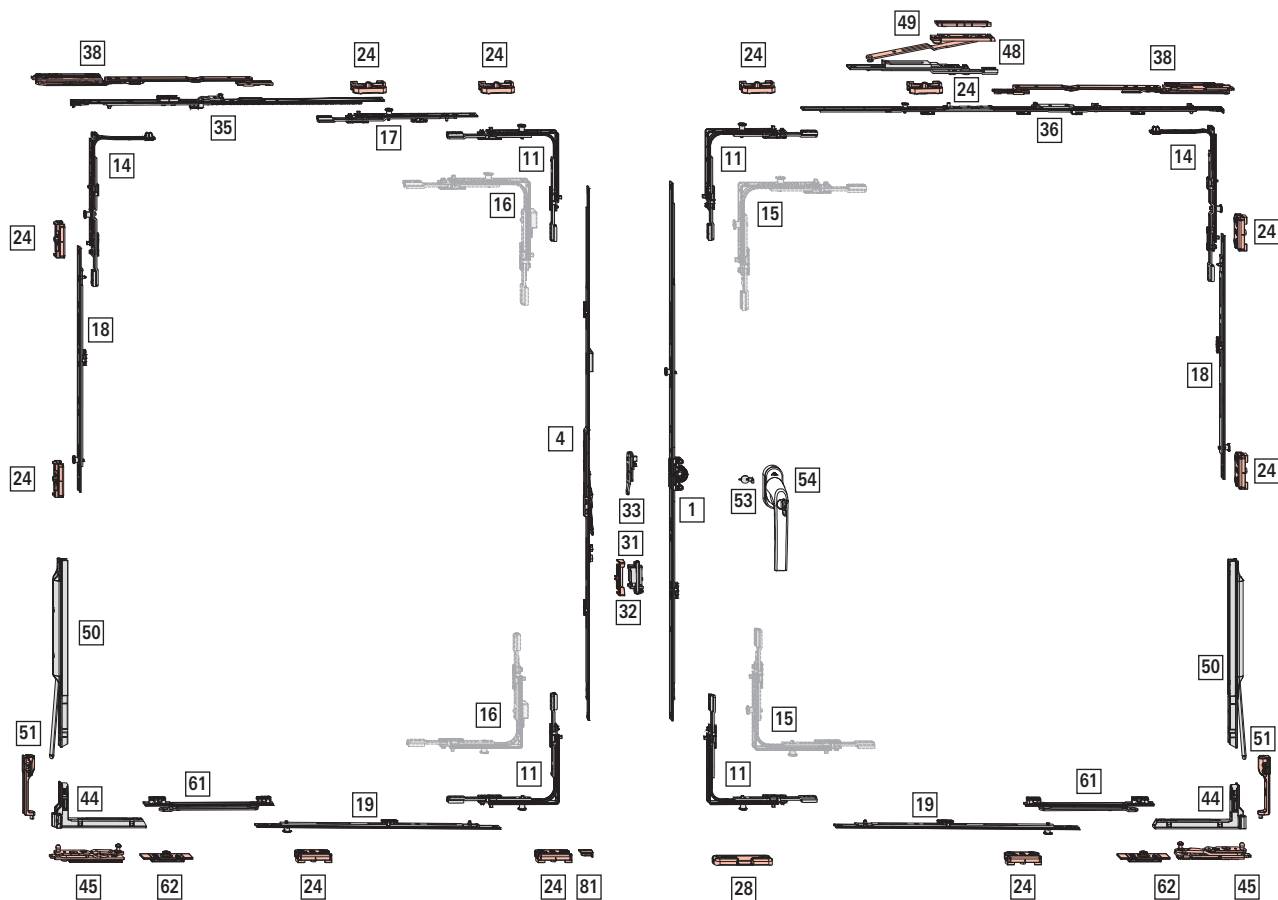
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3.2.1.5.3 RC 2 / RC 2 N





Item	Description
[1]	T&T espagnolette, VT – fixed handle height → <i>from page 164</i>
[4]	Lever-operated espagnolette Plus, VT – fixed handle height → <i>from page 201</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 214</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 244</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 273</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Security stay guide → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 2 / RC 2 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	600 – 2400 mm	1000 – 2400 mm
	S.kg	max. 100 kg	max. 150 kg



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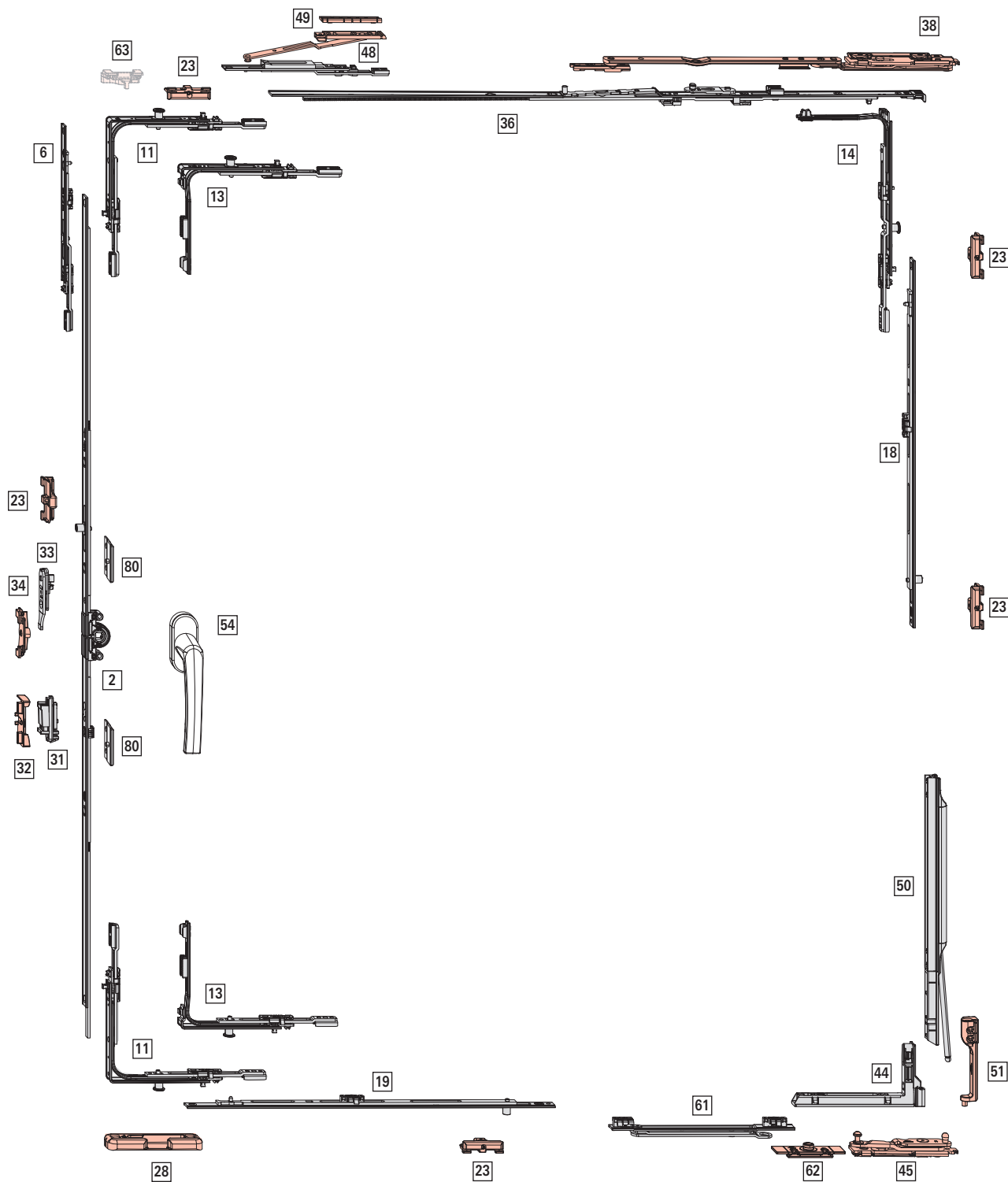


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3.2.2 T&T espagnolette – centred / variable handle height

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 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	330 – 1400 mm	800 – 1400 mm
	SRH	310 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

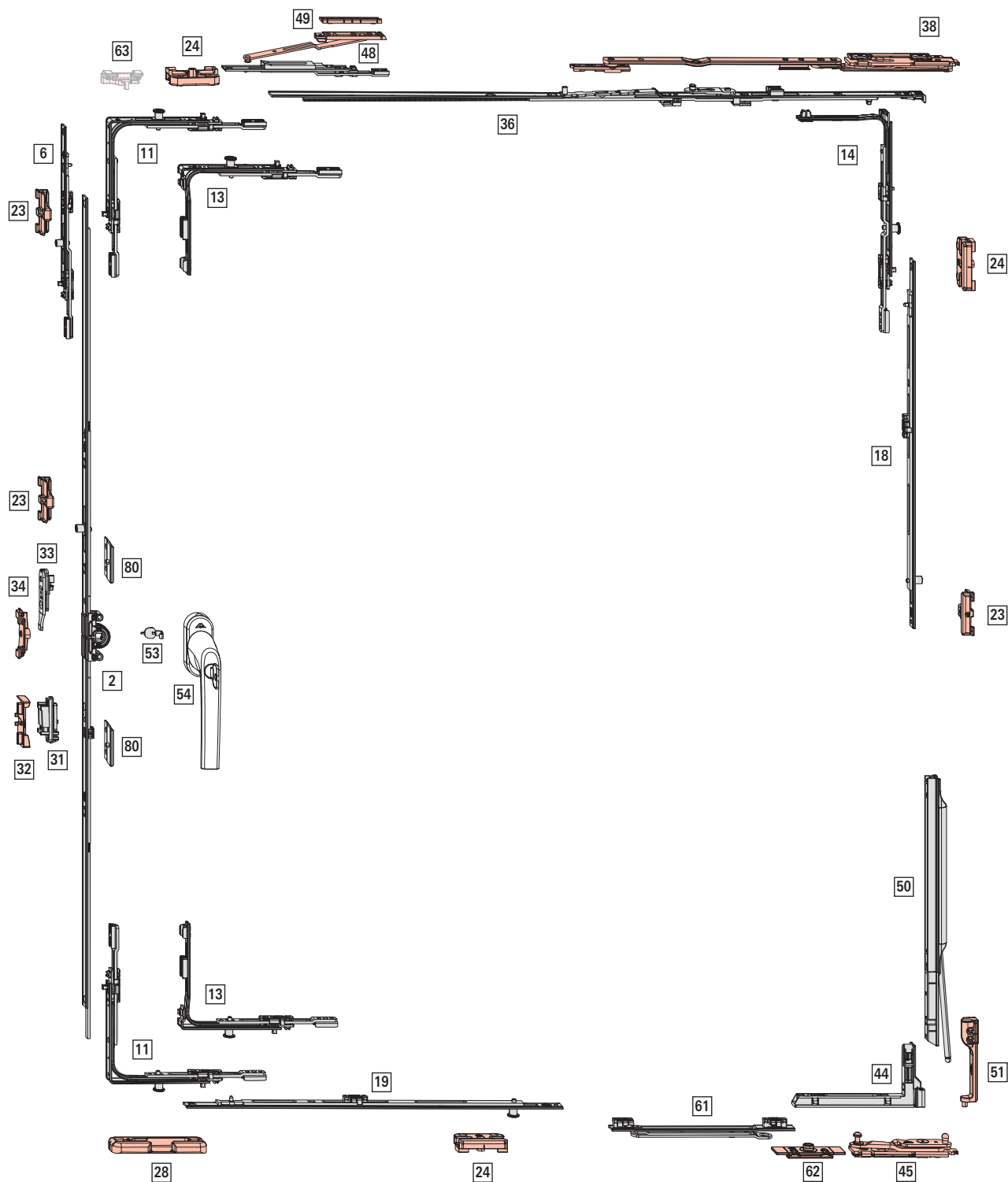
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3.2.2.1.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related)
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

RC 1 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	310 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



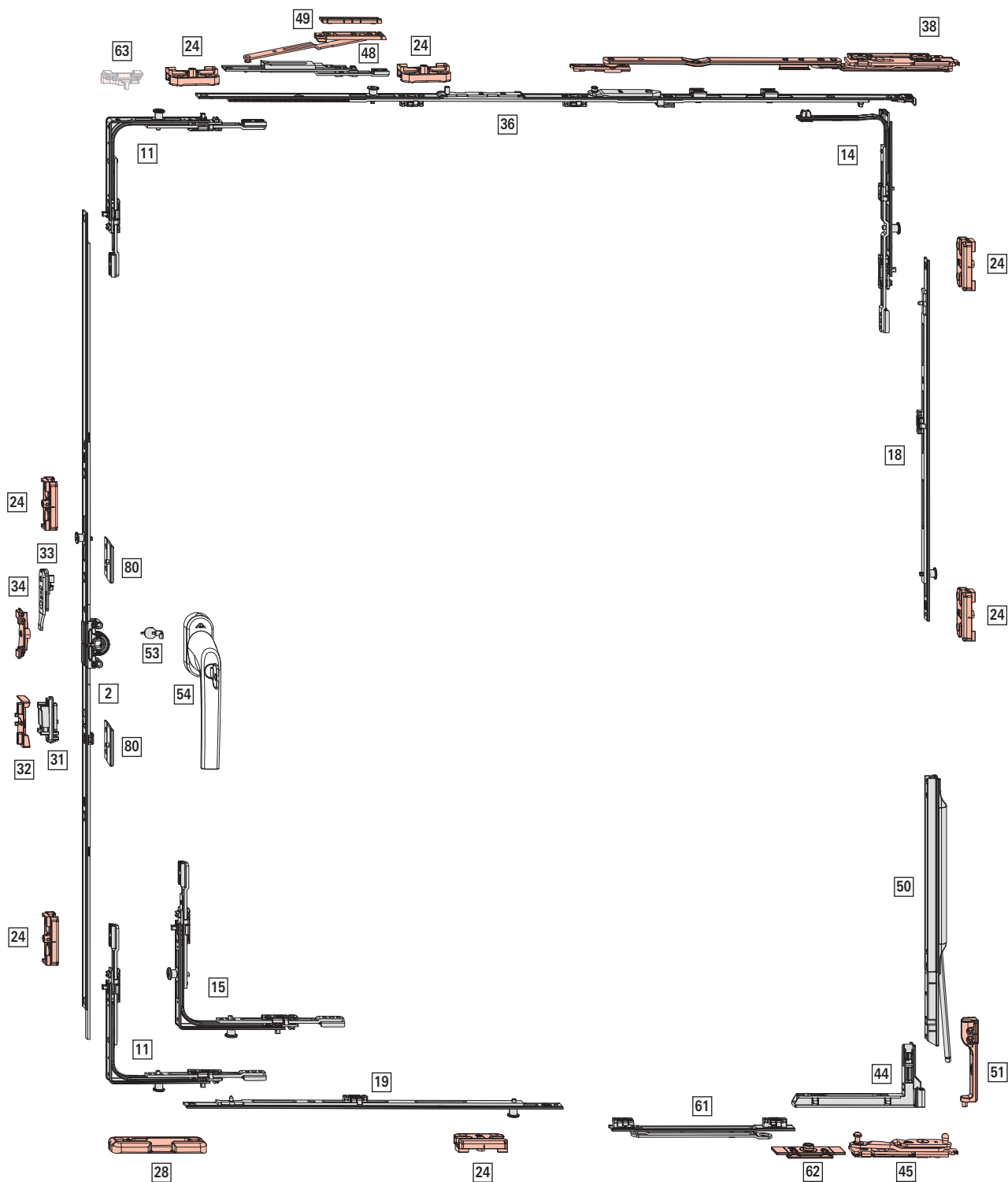
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3.2.2.1.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[11]	Corner drive, standard → <i>from page 212</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 299</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component
[36]	Security stay guide → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[63]	Night vent → <i>from page 298</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

RC 2 / RC 2 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	490 – 2400 mm	1000 – 2400 mm
	S.kg	max. 100 kg	max. 150 kg



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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 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	TiltFirst striker → <i>from page 275</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	TiltFirst stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	TiltFirst additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[*]	Night vent (not shown) → <i>from page 298</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	330 – 1400 mm	800 – 1400 mm
	SRH	310 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



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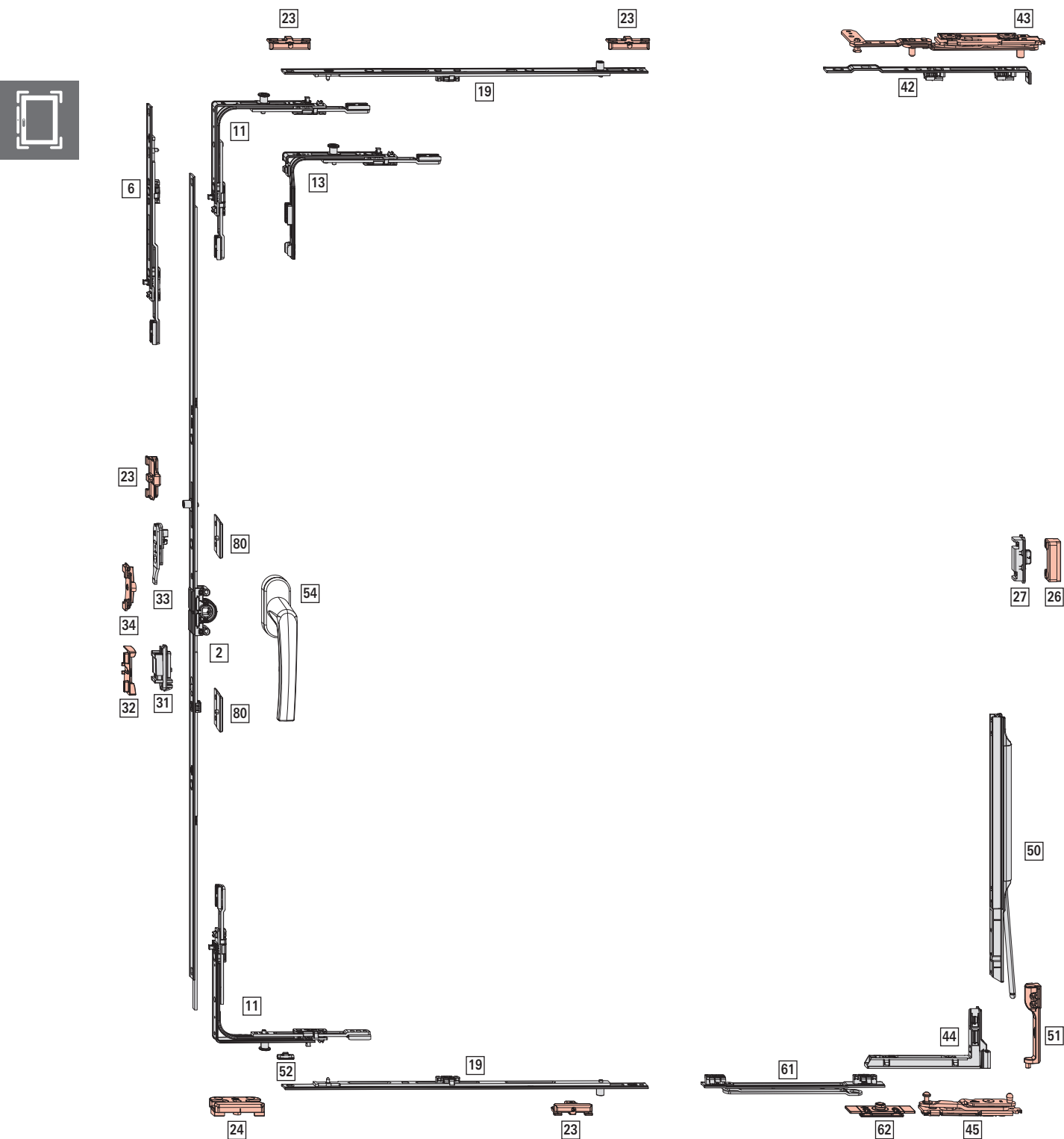
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3.2.2.3 Turn-Only hardware

3.2.2.3.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[34]	Lifting mishandling device, frame component → <i>from page 299</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[52]	Travel restrictor → <i>from page 318</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	370 – 1400 mm	800 – 1400 mm
	SRH	310 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



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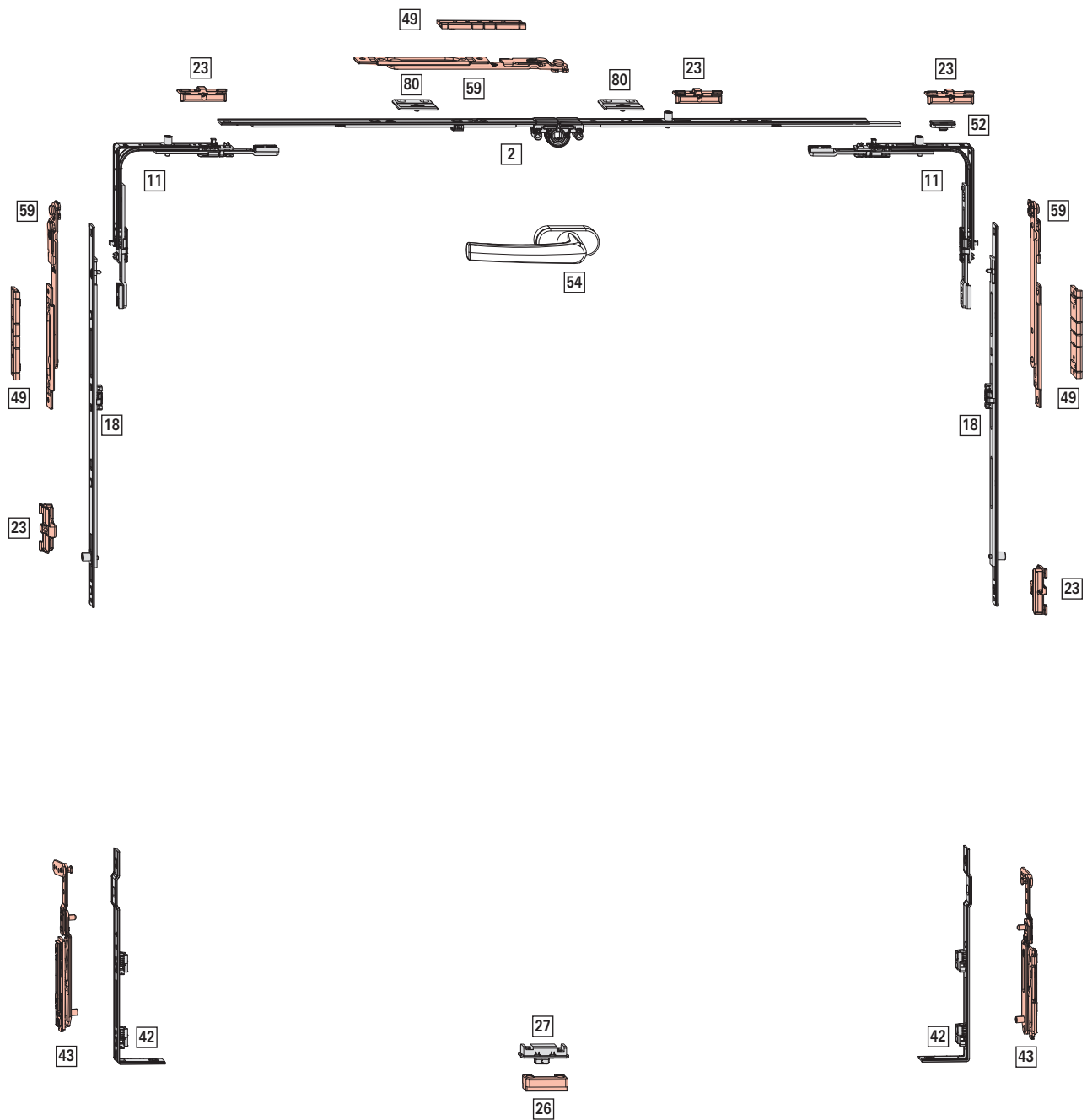
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3.2.2.4 Tilt-Only hardware

3.2.2.4.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[11]	Corner drive, standard → <i>from page 212</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[52]	Travel restrictor → <i>from page 318</i>
[54]	Handle (see catalogue CTL_1)
[59]	Tilt stay set for floating-mullion installation → <i>from page 287</i>
[80]	Fastening plate → <i>from page 311</i>

Application range

Basic security		
	SRW	450 – 1400 mm
	SRH	370 – 1200 mm
	S.kg	max. 80 kg



INFO

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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 174</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 198</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	370 – 1400 mm	800 – 1400 mm
	SRH	370 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

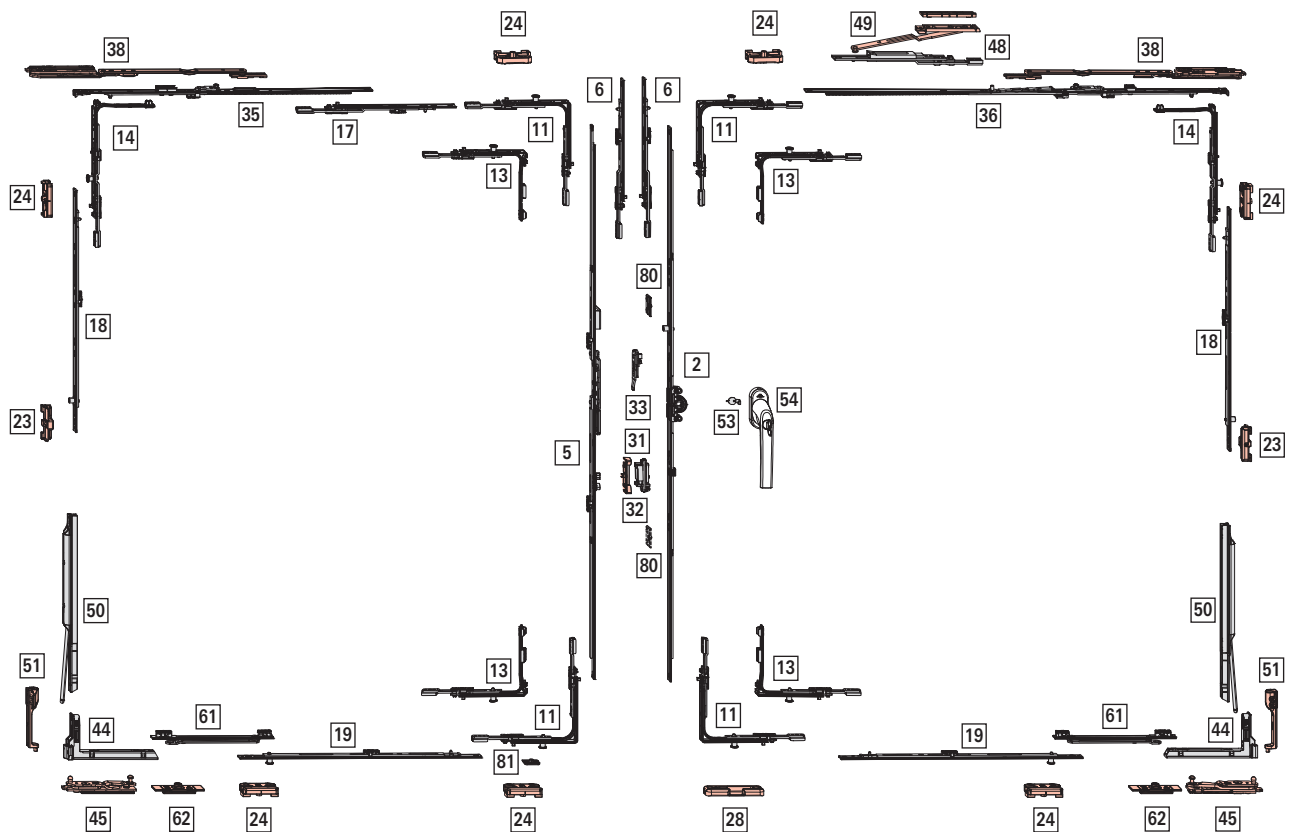
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3.2.2.5.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 198</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal – top, Turn-Only sash → <i>from page 244</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	370 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

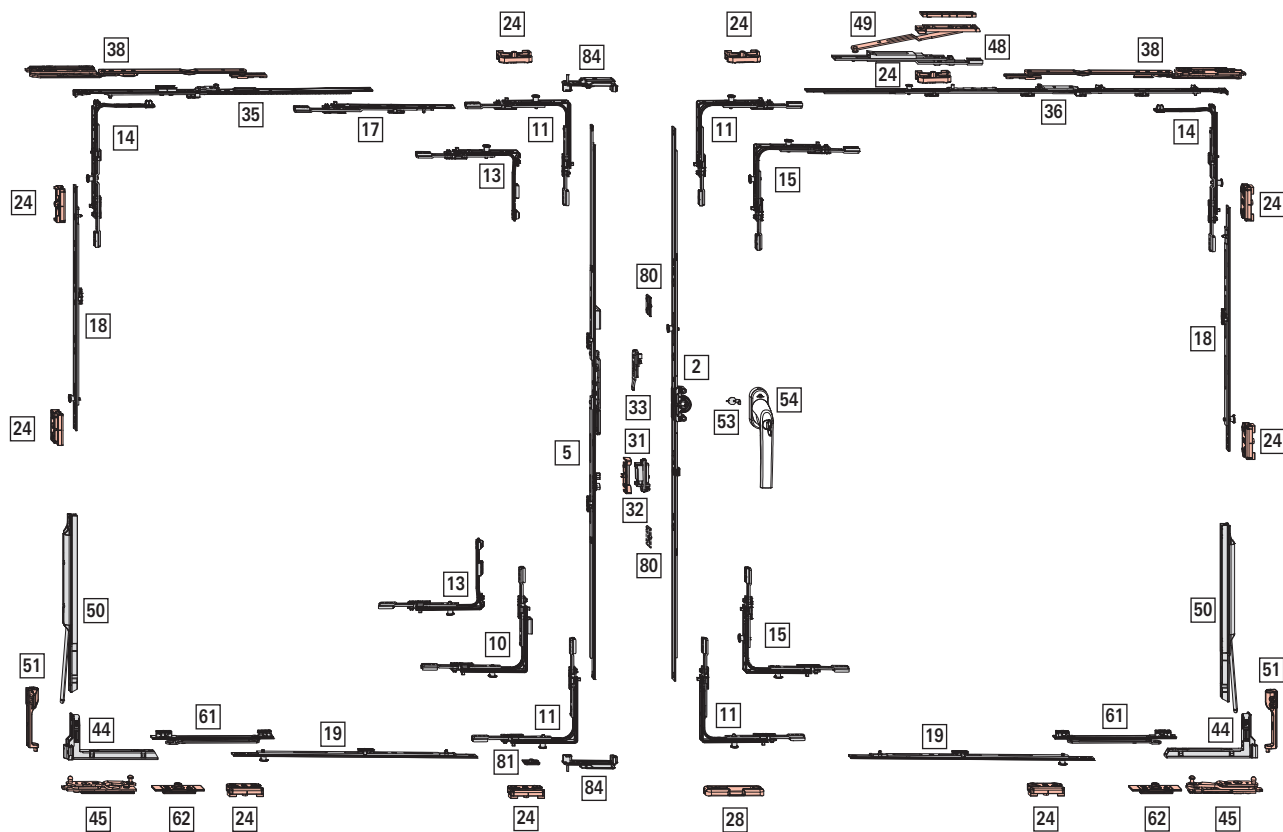
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3.2.2.5.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette, standard – centred / variable handle height → <i>from page 198</i>
[10]	Floating-mullion corner drive → <i>from page 214</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[17]	Centre lock, multipart – security, horizontal – top, Turn-Only sash → <i>from page 244</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Security stay guide → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>
[84]	Safety device for floating-mullion sashes → <i>from page 309</i>

Application range

RC 2 / RC 2 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	520 – 2400 mm	1000 – 2400 mm
	S.kg	max. 100 kg	max. 150 kg



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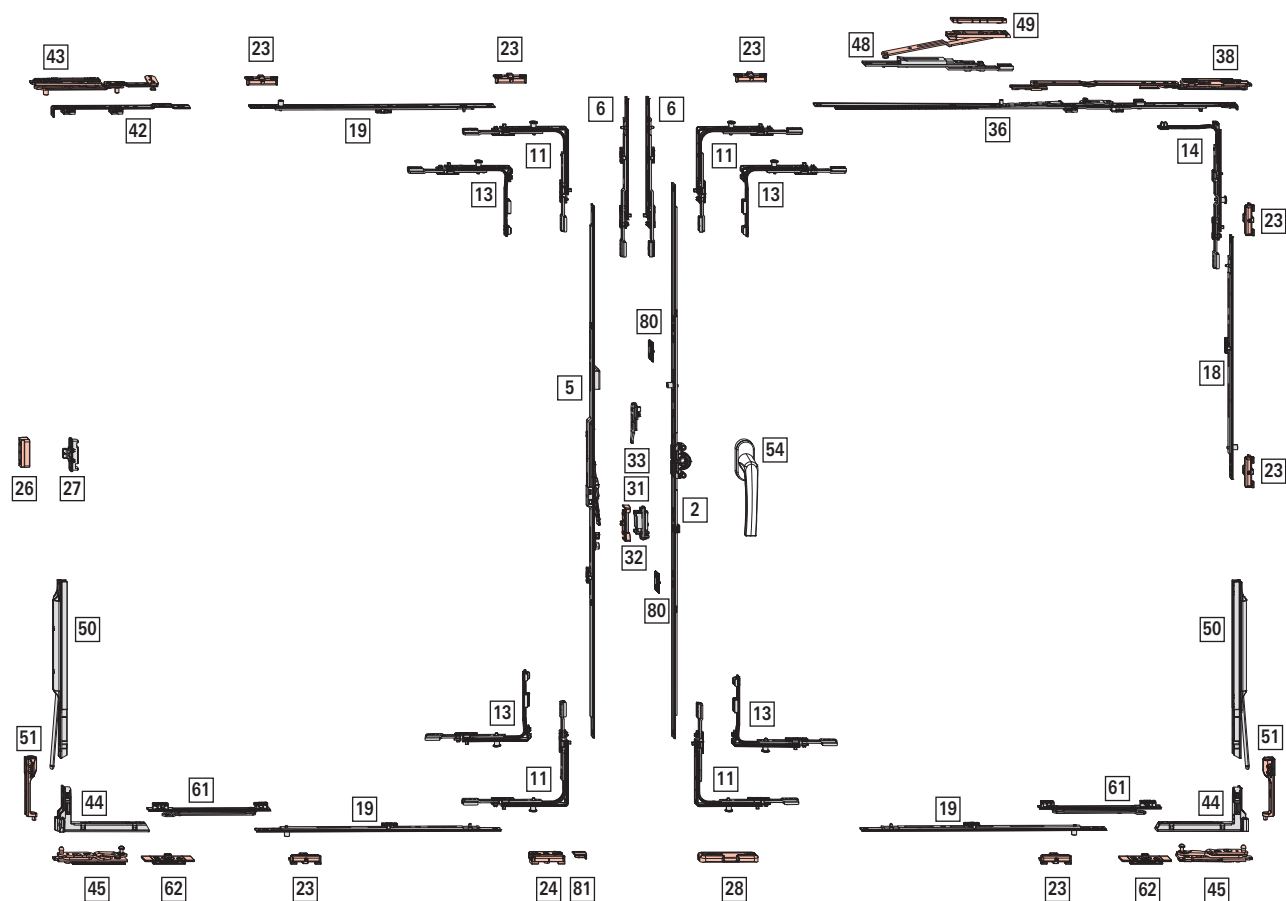
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3.2.2.6 Floating-mullion hardware – Plus

3.2.2.6.1 Basic security





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 204</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[26]	Centre closer, concealed, frame component → <i>from page 316</i>
[27]	Centre closer, concealed, sash component → <i>from page 317</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[42]	Rebate stay guide → <i>from page 230</i>
[43]	Rebate stay arm → <i>from page 231</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

Basic security			
		without load transfer	with load transfer
	SRW	370 – 1400 mm	800 – 1400 mm
	SRH	430 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

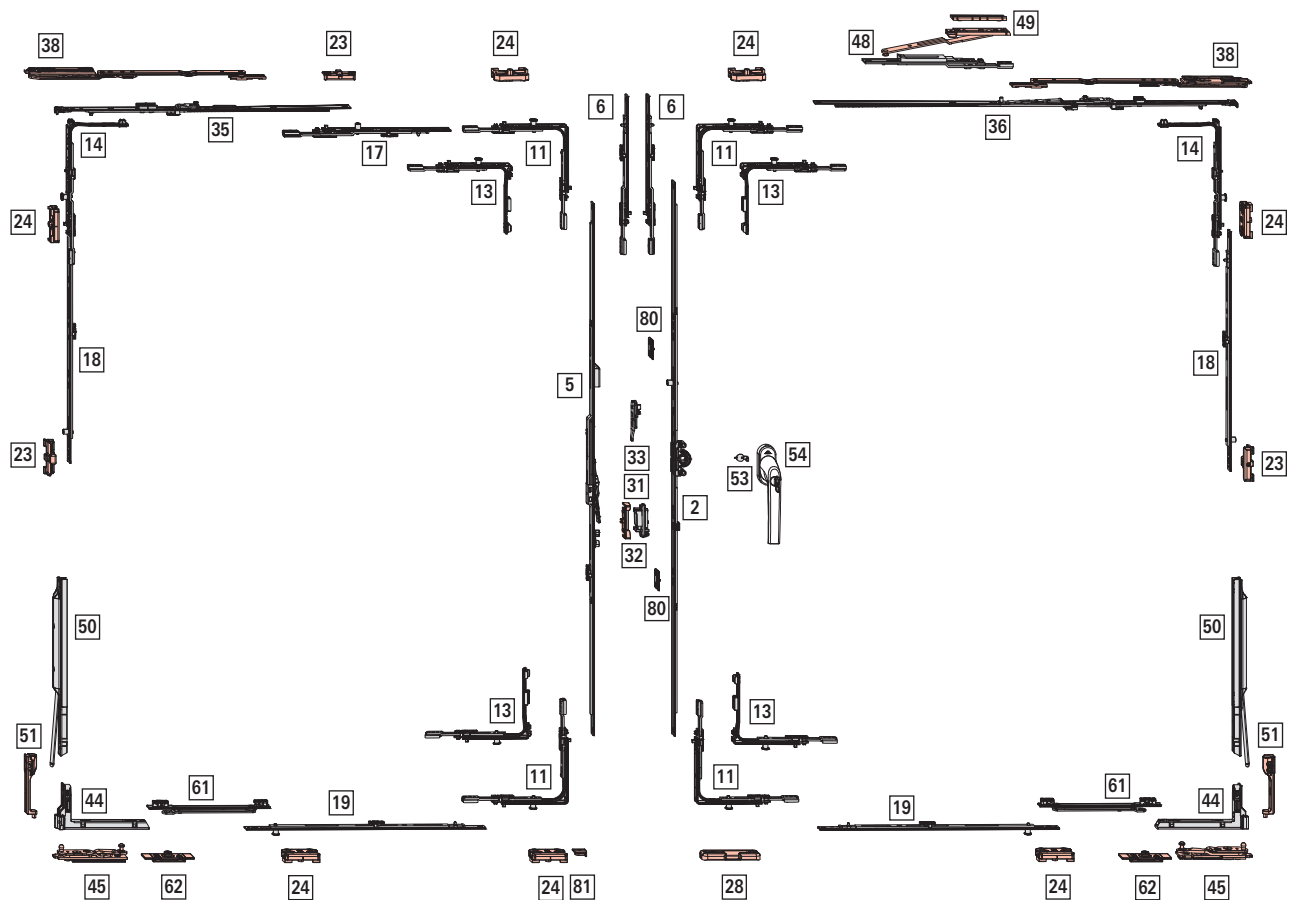
Roto Con Orders

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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3.2.2.6.2 RC 1 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 204</i>
[6]	Centre lock, multipart – standard → <i>from page 244</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[17]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[18]	Centre lock, multipart – standard, vertical → <i>from page 244</i>
[19]	Centre lock, multipart – standard, horizontal → <i>from page 244</i>
[23]	Striker → <i>from page 275</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Stay guide, basic security → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 1 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	430 – 2600 mm	1000 – 2600 mm
	S.kg	max. 100 kg	max. 150 kg



INFO

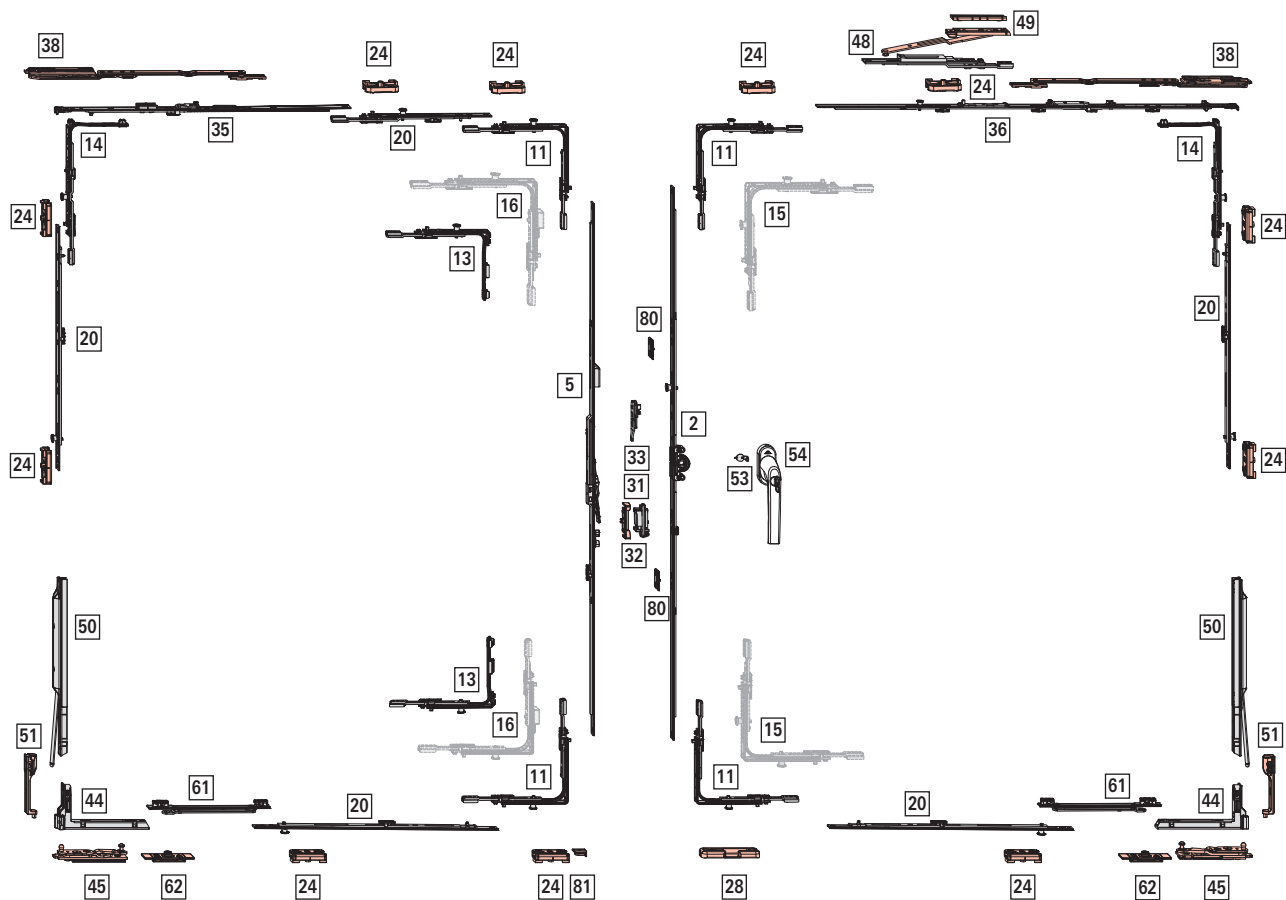
Roto Con Orders

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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3.2.2.6.3 RC 2 / RC 2 N





Item	Description
[2]	T&T espagnolette – centred / variable handle height → <i>from page 174</i>
[5]	Lever-operated espagnolette Plus – centred / variable handle height → <i>from page 204</i>
[11]	Corner drive, standard → <i>from page 212</i>
[13]	Special corner drive, short → <i>from page 213</i>
[14]	Sash stay corner drive → <i>from page 216</i>
[15]	Corner drive, standard (RC 2, RC 2 N, RC 3) → <i>from page 212</i>
[16]	Floating-mullion corner drive – slide guard → <i>from page 214</i>
[17]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[18]	Centre lock, multipart – security, vertical → <i>from page 245</i>
[19]	Centre lock, multipart – security, horizontal → <i>from page 245</i>
[24]	Security striker → <i>from page 276</i>
[28]	Tilt striker → <i>from page 272</i>
[31]	Bullet catch, sash component → <i>from page 296</i>
[32]	Bullet catch, frame component → <i>from page 296</i>
[33]	Lifting mishandling device, sash component → <i>from page 300</i>
[35]	Turn-Only sash stay guide → <i>from page 224</i>
[36]	Security stay guide → <i>from page 223</i>
[38]	Stay arm → <i>from page 228</i>
[44]	Corner hinge → <i>from page 261</i>
[45]	Pivot rest → <i>from page 263</i>
[48]	Additional stay arm → <i>from page 284</i>
[49]	Packer (profile-related) → <i>from page 314</i>
[50]	Load transfer, sash component → <i>from page 264</i>
[51]	Load transfer, frame component → <i>from page 264</i>
[53]	Drilling protection → <i>from page 309</i>
[54]	Handle (see catalogue CTL_1)
[61]	Turn restrictor 198, sash component → <i>from page 308</i>
[62]	Turn restrictor 198, frame component → <i>from page 308</i>
[80]	Fastening plate → <i>from page 311</i>
[81]	Run-up block → <i>from page 312</i>

Application range

RC 2 / RC 2 N			
		without load transfer	with load transfer
	SRW	450 – 1400 mm	800 – 1400 mm
	SRH	520 – 2400 mm	1000 – 2400 mm
	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	164
Backset 15 mm	166
Backset 25, 30, 35, 40, 45, 50 mm	169

T&T espagnolette – centred / variable handle height

Backset 8 mm	174
Backset 15 mm	175
Backset 25, 30, 35, 40, 45, 50 mm	177

T&T espagnolettes – Special solutions

T&T adaptable espagnolette	182
----------------------------	-----

Turn-Only/Tilt-Only espagnolette

Backset 8 mm	186
Backset 15 mm	187
Backset 25, 30, 35, 40, 45, 50 mm	188

Espagnolette connector

Arched window	191
---------------	-----

Espagnolette extension

330	192
Espagnolette	192

Floating-mullion sash espagnolette

Standard	193
Plus	199
Separate toggle lever	204

Shootbolt

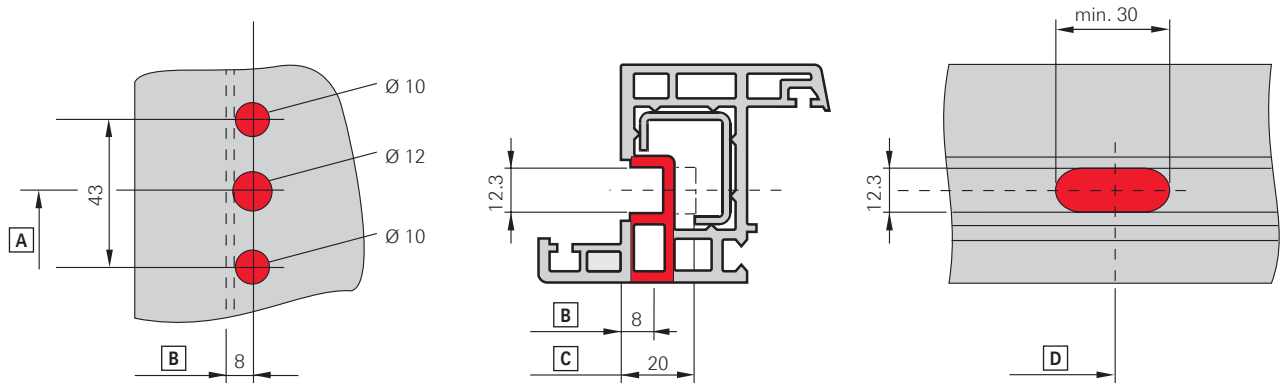
Opposite hardware groove	206
Euro-rebate	206

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



												Nº
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		

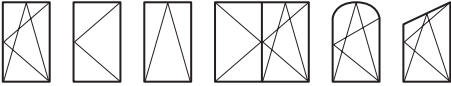
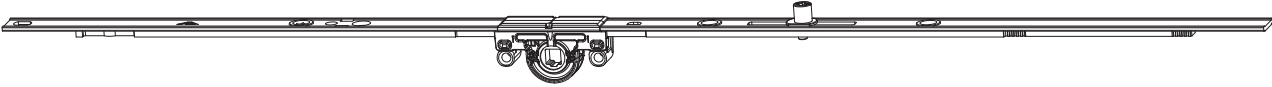


INFO

A centre lock is required from SRH 2401 mm.



4.1.2.2 Fixed handle height



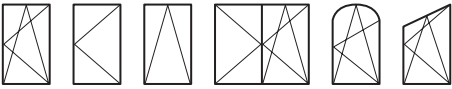
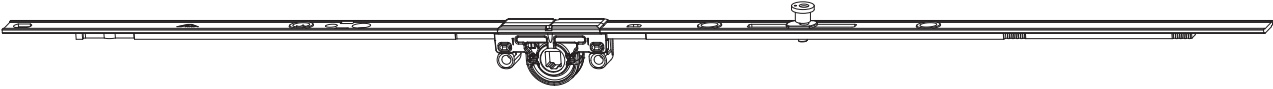
											Nº
15	280 – 570	460	200	120	N	N	Y	– / 1	– / P	Roto Sil	742199
	511 – 710	600	200	170	Y	N	Y	– / 1	– / P	Roto Sil	795324
			200	170	Y	N	N	1 / –	P / –	Roto Sil	795277
	601 – 800	690	200	263	Y	N	N	– / –	– / –	Roto Sil	619591
			200	263	N	N	N	1 / –	E / –	Roto Sil	893472
	801 – 1000	890	200	413	Y	N	N	– / –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



											
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

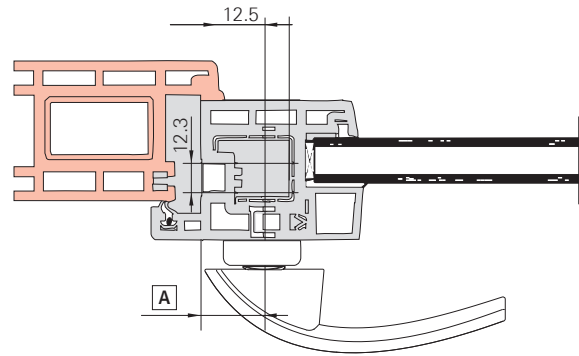
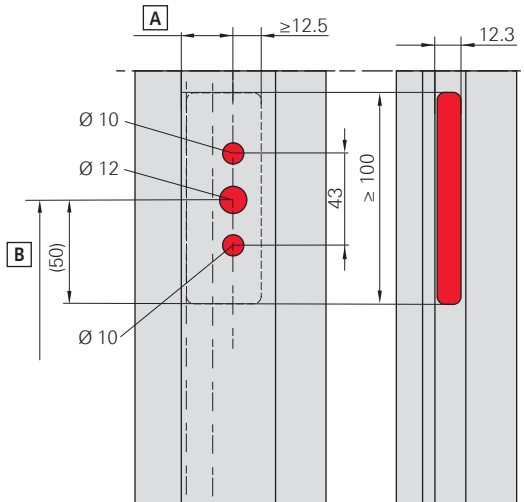
A centre lock is required from SRH 2401 mm.



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

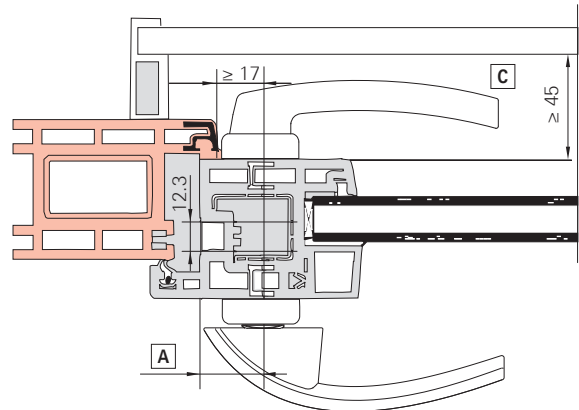
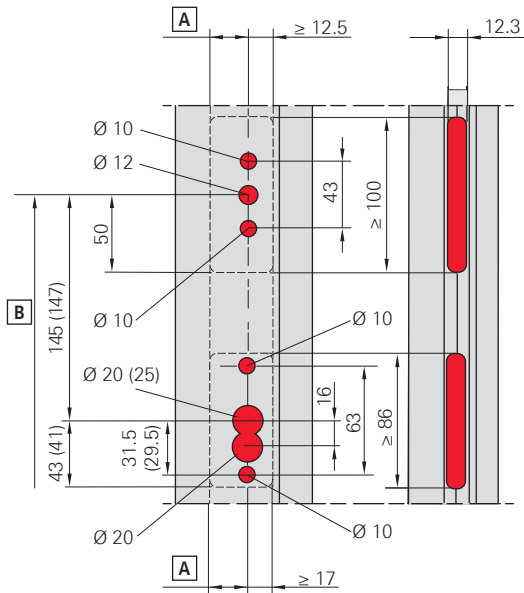
4.1.3.1 Drilling and routing pattern

Not lockable



Assignment	Meaning
[A]	Backset
[B]	Handle height

Lockable



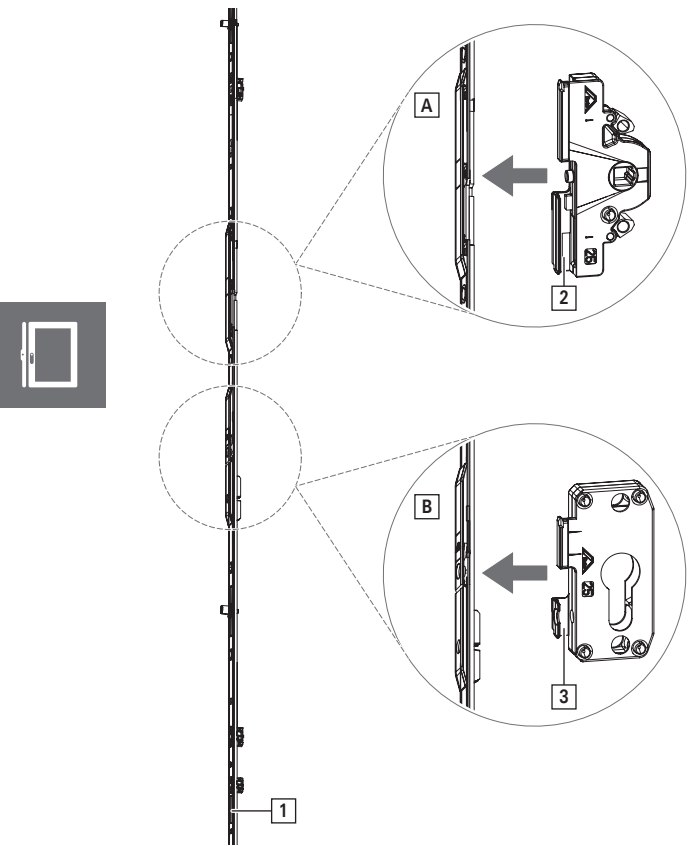
Assignment	Meaning
[A]	Backset
[B]	Handle height
[C]	On roller shutters



INFO

Cross section: doors (inward opening).

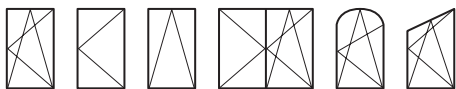
4.1.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – fixed handle height → <i>from page 171</i>
[2]	Gearbox → <i>from page 172</i>
[3]	Lock casing – profile cylinder → <i>from page 173</i> Lock casing – round cylinder (not sh.) → <i>from page 173</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate
<i>i</i> INFO Lock casing requires an espagnolette faceplate with product feature  bullet catch “J”.	



4.1.3.3 Espagnolette faceplate – fixed handle height



											Nº
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 172*.

For compatible lock casings, see → *from page 173*.



INFO

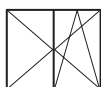
Lock casing requires an espagnolette faceplate with product feature bullet catch “Y”.



INFO

A centre lock is required from SRH 2401 mm.

4.1.3.4 Espagnolette faceplate – fixed handle height, second opening sash



							Nº
801 – 1000	890	200	413	N	1	Roto Sil	2027942
1001 – 1200	1090	200	513	N	1	Roto Sil	2027943
1201 – 1400	1290	200	563	N	1	Roto Sil	2027969
1401 – 1600	1490	200	563	N	2	Roto Sil	2027970
1601 – 1800	1690	200	1000	Y	2	Roto Sil	2027971
1801 – 2000	1890	200	1000	Y	2	Roto Sil	2027972

Espagnolettes
T&T espagnolette, VT – fixed handle height
 Backset 25, 30, 35, 40, 45, 50 mm

							Nº
2001 – 2200	2090	200	1000	Y	3	Roto Sil	2027973
2201 – 2400	2290	200	1000	Y	3	Roto Sil	2027974

For compatible gearboxes, see → *from page 172*.

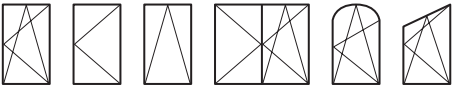
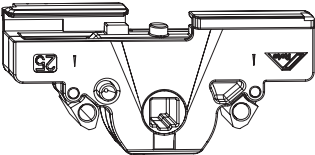


INFO
 A centre lock is required from SRH 2401 mm.



INFO
 Stop for lifting mishandling device is integrated.

4.1.3.5 Gearbox

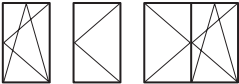
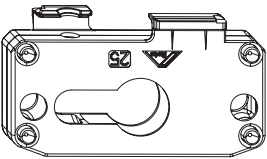


		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679
45	Roto Sil	787680
50	Roto Sil	787681



4.1.3.6 Lock casing

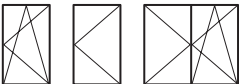
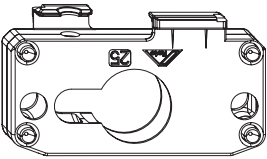
Profile cylinders



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



Round cylinders

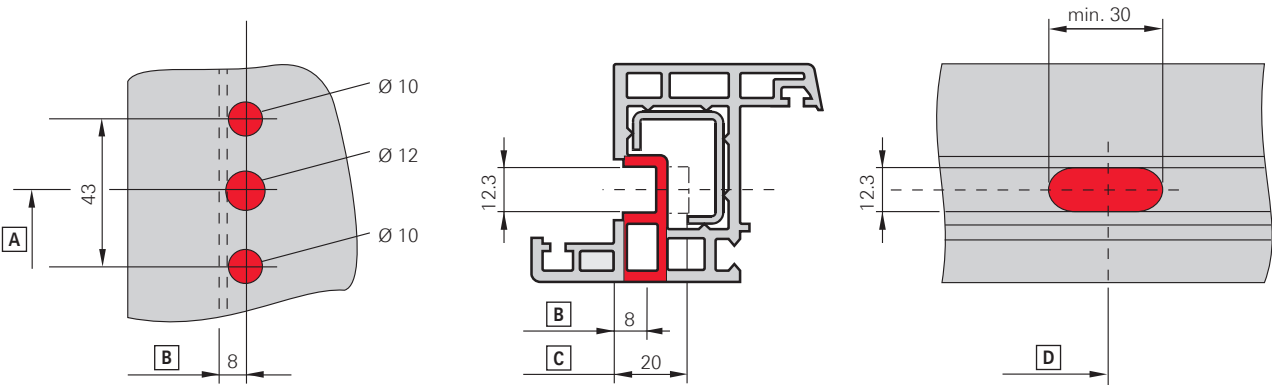


		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279

4.2 T&T espagnolette – centred / variable handle height

4.2.1 Backset 8 mm

4.2.1.1 Drilling and routing pattern

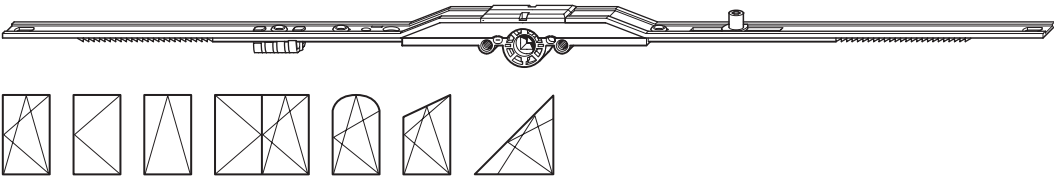


Assignment	Meaning
[A]	Handle height
[B]	Backset
[C]	Minimum routing depth
[D]	Centre of gearbox



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



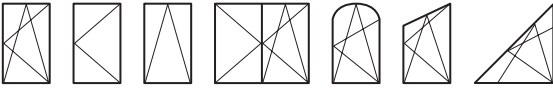
										
8	380 – 620	500	100 / 100	190 – 260	N	N	–	–	Roto Sil	259764
	621 – 1020	800	200 / 200	311 – 510	Y	N	1	E	Roto Sil	840794
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	E	Roto Sil	623646
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	E	Roto Sil	259768
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	E	Roto Sil	795374
	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



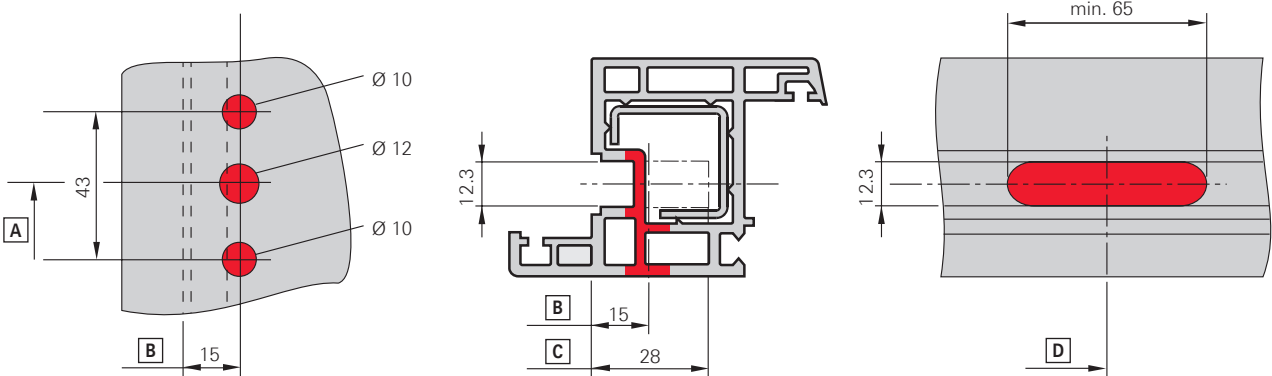
												Nº
8	621 – 1020	800	200 / 200	311 – 510	Y	N	1	V	Roto Sil	840812		
	801 – 1200	980	200 / 200	401 – 600	Y	N	1	V	Roto Sil	502075		
	1201 – 1600	1380	200 / 200	601 – 800	Y	N	2	V	Roto Sil	502076		
	1601 – 2000	1780	200 / 200	801 – 1000	Y	Y	2	V	Roto Sil	795375		
	2001 – 2400	2180	200 / 200	1001 – 1200	Y	Y	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

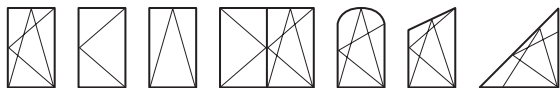


Assignment	Meaning
[A]	Handle height
[B]	Backset
[C]	Minimum routing depth
[D]	Centre of gearbox



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



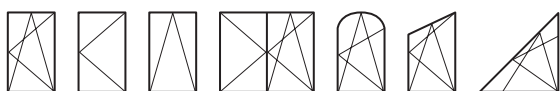
										
15	310 – 620	430	100 / 100	155 – 225	N	N	–	–	Roto Sil	259717
	310 – 850	630	200 / 200	155 – 425	N	N	–	–	Roto Sil	742202
	621 – 800	580	90 / 90	311 – 400	Y	N	–	–	Roto Sil	289862
	621 – 800		90 / 90	311 – 400	Y	N	1	E	Roto Sil	259719
	801 – 1200	980	200 / 200	401 – 600	Y	N	–	–	Roto Sil	289863
	801 – 1200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



										Nº
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

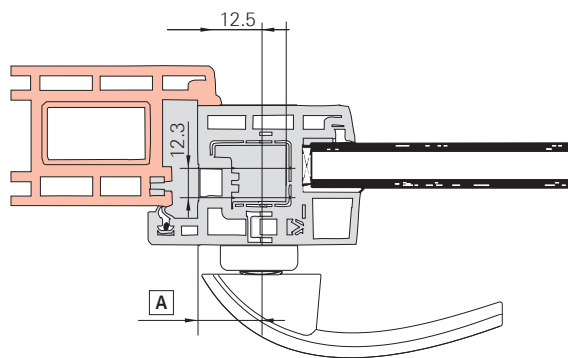
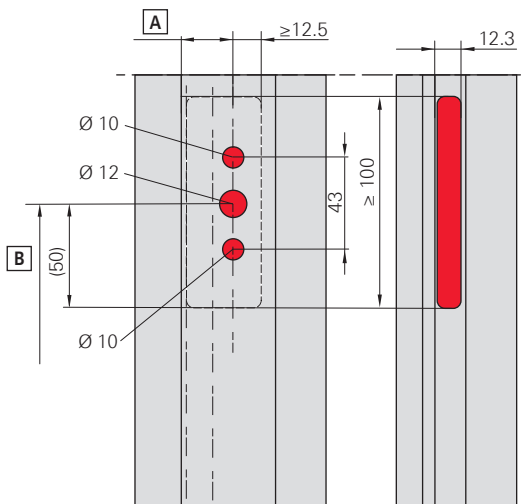
A centre lock is required from SRH 2401 mm.



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

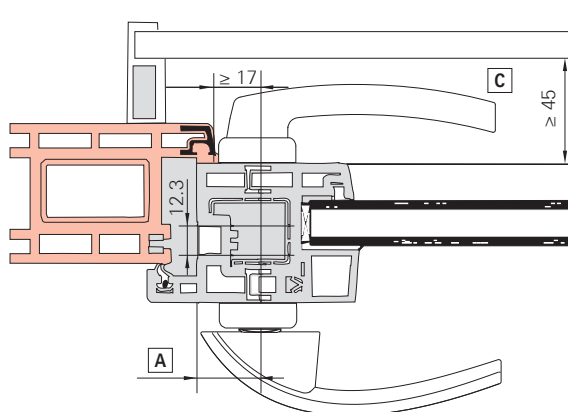
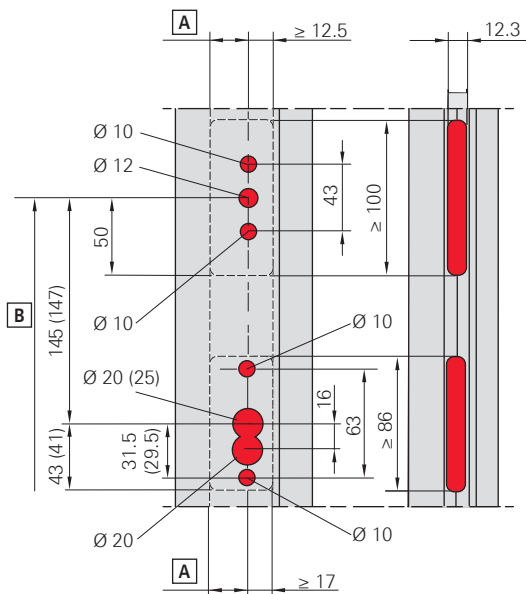
4.2.3.1 Drilling and routing pattern

Not lockable



Assignment	Meaning
[A]	Backset
[B]	Handle height

Lockable



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



INFO

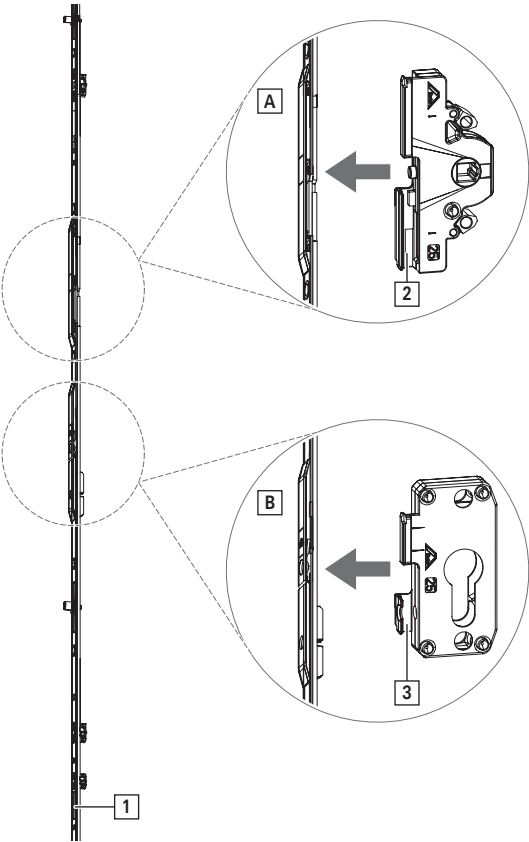
Cross section: doors (inward opening).

Espagnolettes

T&T espagnolette – centred / variable handle height

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

4.2.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 178</i>
[2]	Gearbox → <i>from page 180</i>
[3]	Lock casing – profile cylinder → <i>from page 181</i> Lock casing – round cylinder (not sh.) → <i>from page 181</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate
i INFO Lock casing requires an espagnolette faceplate with product feature bullet catch “J”.	

4.2.3.3 Espagnolette faceplate – centred / variable handle height



										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 180*.

For compatible lock casings, see → *from page 181*.



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 180*.



INFO

A centre lock is required from SRH 2401 mm.

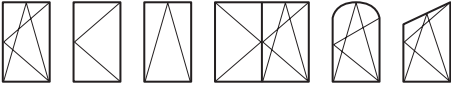
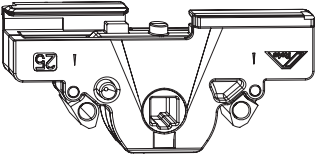


INFO

Stop for lifting mishandling device is integrated.

Espagnolettes
T&T espagnolette – centred / variable handle height
Backset 25, 30, 35, 40, 45, 50 mm

4.2.3.5 Gearbox

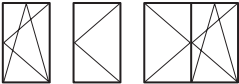
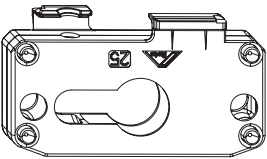


		Nº
25	Roto Sil	787675
30	Roto Sil	787677
35	Roto Sil	787678
40	Roto Sil	787679
45	Roto Sil	787680
50	Roto Sil	787681



4.2.3.6 Lock casing

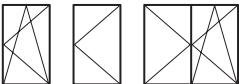
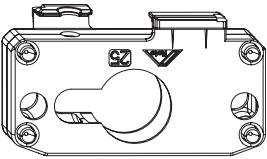
Profile cylinder



		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



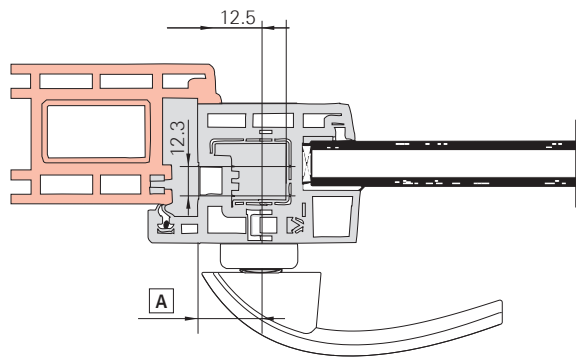
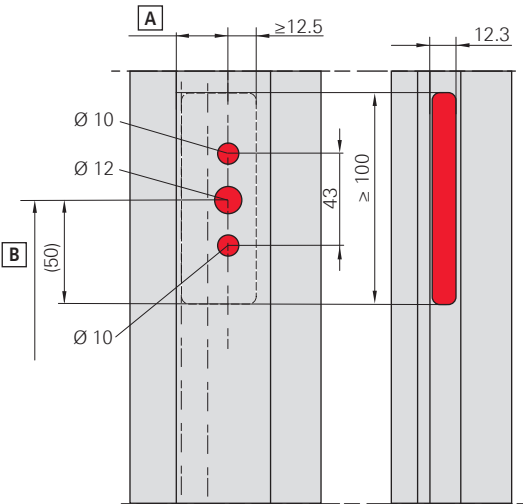
		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279

4.3 T&T espagnolettes – Special solutions

4.3.1 T&T adaptable espagnolette

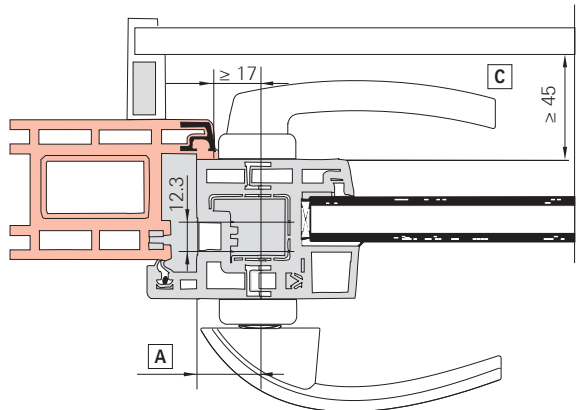
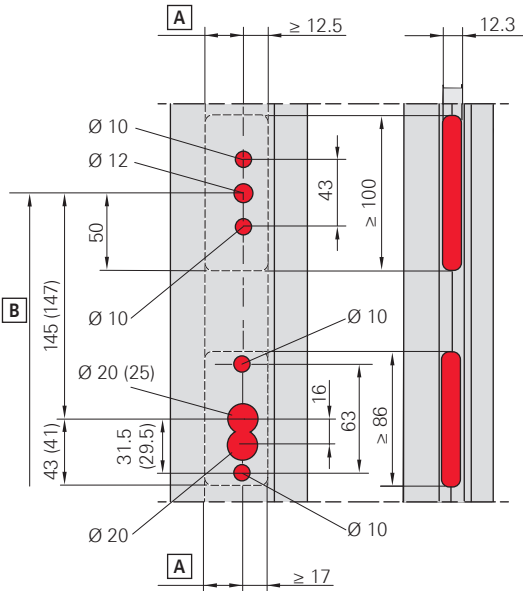
4.3.1.1 Drilling and routing pattern

Not lockable



Assignment	Meaning
[A]	Backset
[B]	Handle height

Lockable



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

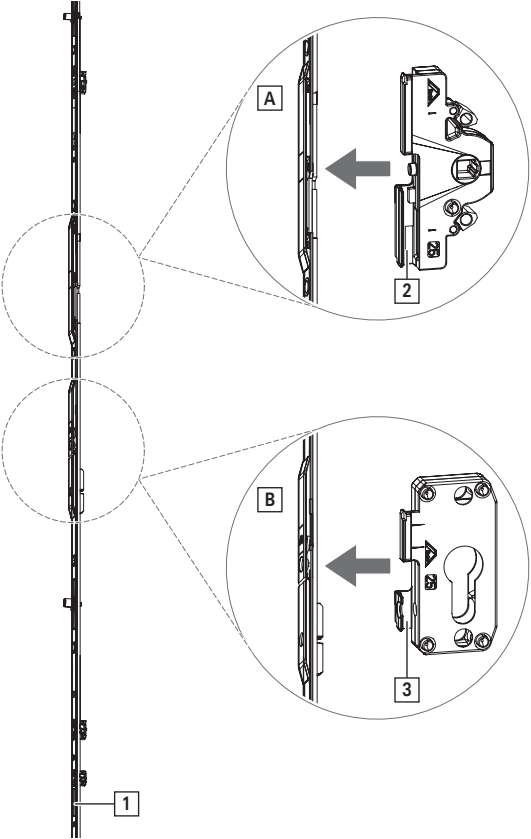


INFO

Cross section: doors (inward opening).

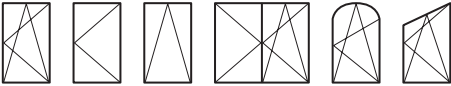


4.3.1.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 183</i>
[2]	Gearbox → <i>from page 184</i>
[3]	Lock casing – profile cylinder → <i>from page 185</i> Lock casing – round cylinder (not sh.) → <i>from page 185</i>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate

4.3.1.3 Espagnolette faceplate – centred / variable handle height



Basic security	690 – 2400	680	200	Y	Roto Sil	799011

For compatible gearboxes, see → *from page 184*.

For compatible lock casings, see → *from page 185*.



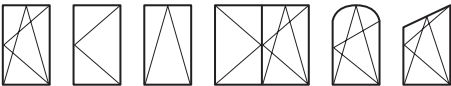
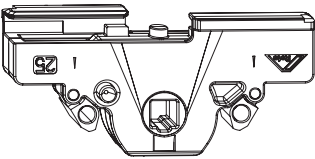
INFO

In conjunction with

Centre lock, couplable: see → *from page 244*.

Espagnolette centre lock: see → *from page 192*.

4.3.1.4 Gearbox

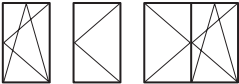
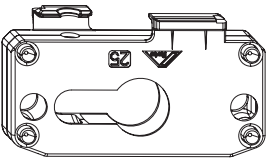


			Nº
25		Roto Sil	787675
30		Roto Sil	787677
35		Roto Sil	787678
40		Roto Sil	787679
45		Roto Sil	787680
50		Roto Sil	787681



4.3.1.5 Lock casing

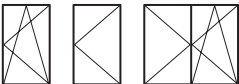
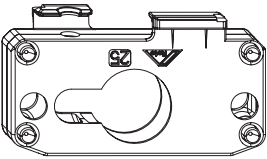
Profile cylinders



		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

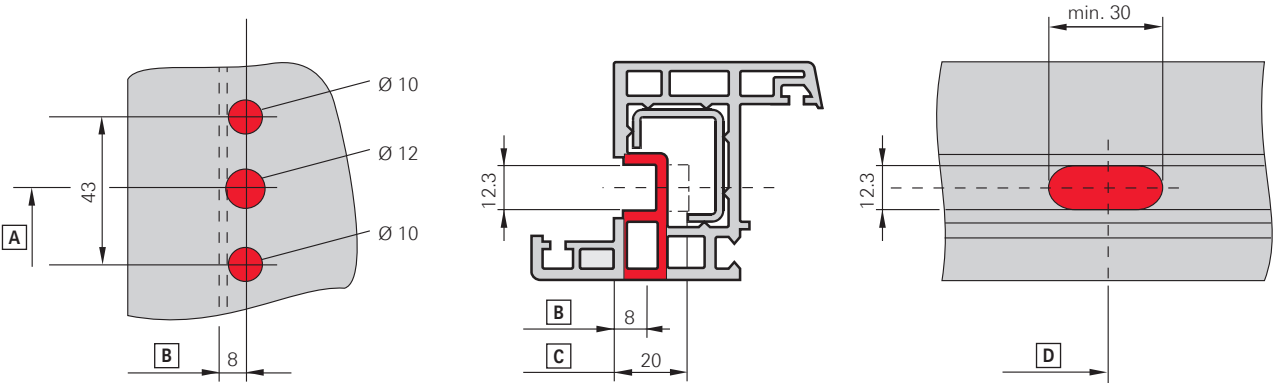


		Nº
25	Roto Sil	788164
30	Roto Sil	788275
35	Roto Sil	788276
40	Roto Sil	788277
45	Roto Sil	788278
50	Roto Sil	788279

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 Centred / variable handle height

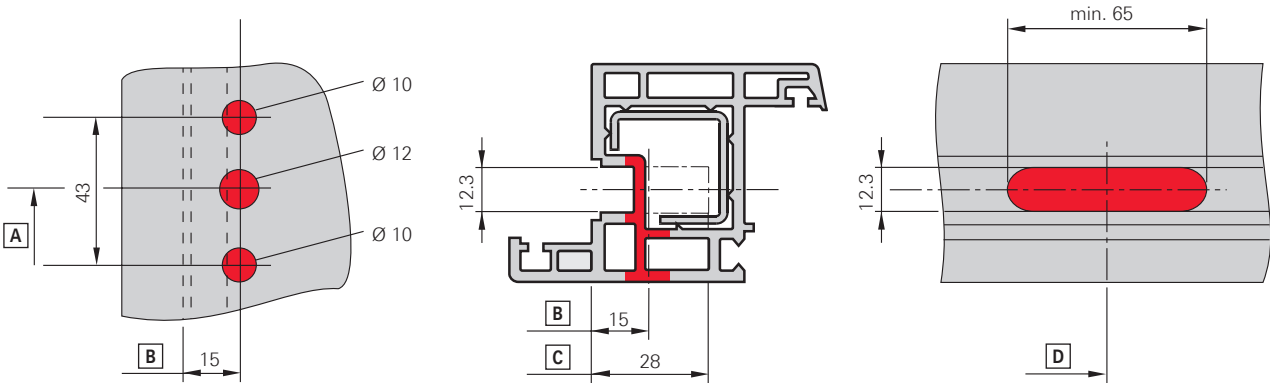


										
8	238 – 390	238	0 / 0	88 – 119	N	N	1	E	Roto Sil	260136
	391 – 500	500	55 / 55	125 – 250	N	N	1	E	Roto Sil	260137
	501 – 800	800	150 / 150	251 – 400	N	N	2	E	Roto Sil	260138
	801 – 1100	1100	150 / 150	401 – 550	N	N	3	E	Roto Sil	260139
	1101 – 1400	1400	150 / 150	551 – 700	N	N	3	E	Roto Sil	260140
	1401 – 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



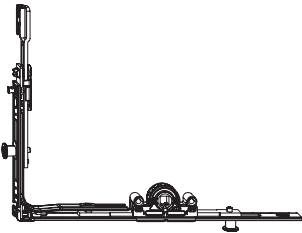
INFO
Ø 10 drilling depth 33 mm (for 16 mm overlap) for countersunk screws M 5 x ... DIN EN ISO 7046.

4.4.2.2 Centred / variable handle height



										
15	180 – 250	180	0 / 0	90 – 125	N	N	1	E	Roto Sil	260129
			0 / 0	90 – 125	N	N	1	P	Roto Sil	288093
	251 – 500	500	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

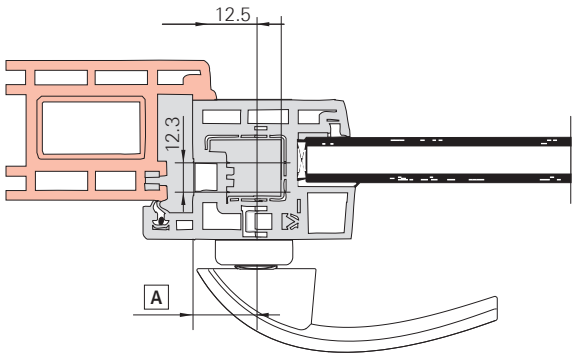
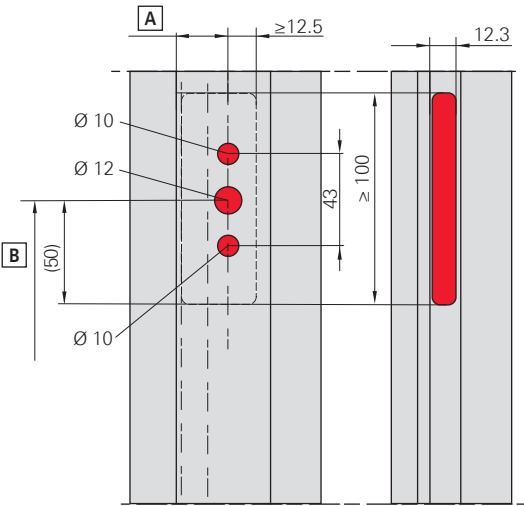
4.4.2.3 Handle position at the bottom



15	230 – 800	230	0 / 0	120	N	N	Y	1 / 1	P / P	Roto Sil	Nº	610176	

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

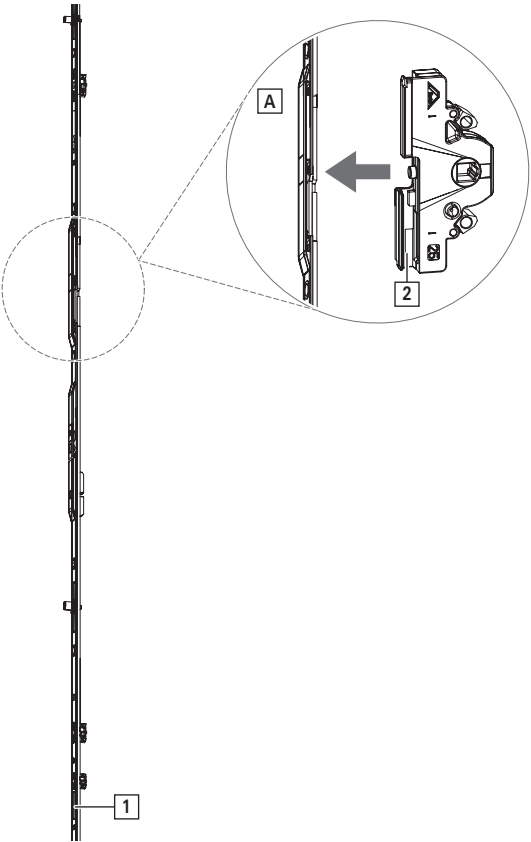
4.4.3.1 Drilling and routing pattern



Assignment	Meaning
[A]	Backset
[B]	Handle height

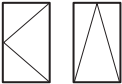


4.4.3.2 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 189</i>
[2]	Gearbox → <i>from page 190</i>
[A]	Gearbox which can be installed in the espagnolette faceplate

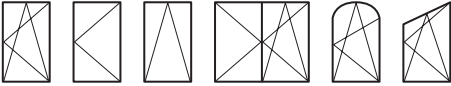
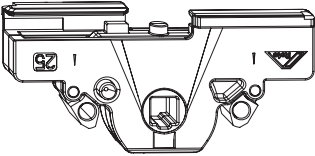
4.4.3.3 Espagnolette faceplate – centred / variable handle height



										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 190*.

4.4.3.4 Gearbox

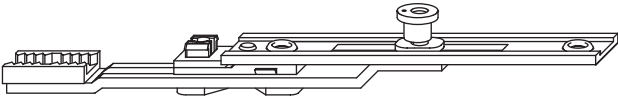


			Nº
25		Roto Sil	787675
30		Roto Sil	787677
35		Roto Sil	787678
40		Roto Sil	787679
45		Roto Sil	787680
50		Roto Sil	787681



4.5 Espagnolette connector

4.5.1 Arched window



				N ^o
Espagnolette connector for arched windows	1	E	Roto Sil	245688
	1	V	Roto Sil	245687



4.6 Espagnolette extension

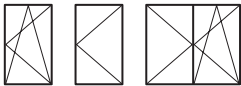
4.6.1 330



						Nº
Y	330	200	–	–	Roto Sil	489993
		200	1	V	Roto Sil	861349

4.6.2 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

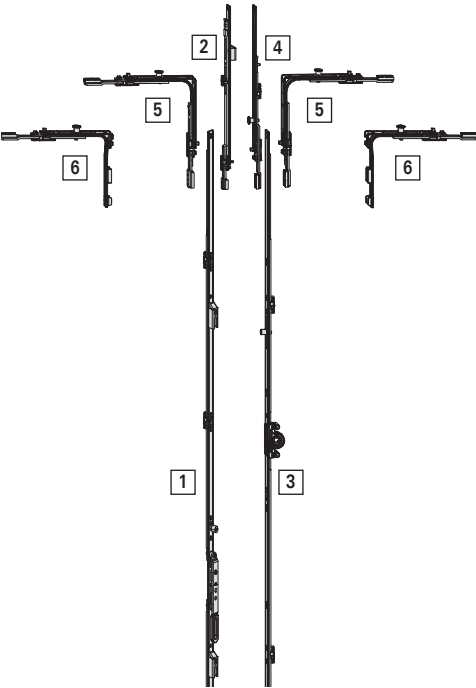


4.7 Floating-mullion sash espagnolette

4.7.1 Standard

4.7.1.1 VT – fixed handle height

4.7.1.1.1 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 248*

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 164*
- ☐ T&T espagnolette, VT – fixed handle height, backset 15 mm → *from page 164*
- ☐ T&T espagnolette, VT – fixed handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 164*

Optional: determine the centre lock, standard [4] → *from page 244*.

Espagnolettes
Floating-mullion sash espagnolette
Standard

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 213</i>	490	120	N	Corner drive, standard → <i>from page 212</i>
511 – 600			Corner drive, standard → <i>from page 212</i>	600	170	N	Corner drive, standard → <i>from page 212</i>
601 – 800	690	325	Corner drive, standard → <i>from page 212</i>	690	263	N	Corner drive, standard → <i>from page 212</i>
801 – 1000	890	335	Corner drive, standard → <i>from page 212</i>	890	413	Y	Corner drive, standard → <i>from page 212</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 212</i>	1090	513	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 212</i>	1290	563	Y	Corner drive, standard → <i>from page 212</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 212</i>	1490	563	Y	Corner drive, standard → <i>from page 212</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 212</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 212</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 212</i>	1890	1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 212</i>	2090	1000	Y	Corner drive, standard → <i>from page 212</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 212</i>	2290	1000	Y	Corner drive, standard → <i>from page 212</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 213</i>	460	120	N	Special corner drive, short → <i>from page 213</i>
371 – 555	445	156	Corner drive, standard → <i>from page 212</i>	460	120	N	Corner drive, standard → <i>from page 212</i>
431 – 510	600	195	Special corner drive, short → <i>from page 213</i>	460	120	N	Corner drive, standard → <i>from page 212</i>
511 – 600			Corner drive, standard → <i>from page 212</i>	600	170	Y	Corner drive, standard → <i>from page 212</i>
601 – 800	690	300	Corner drive, standard → <i>from page 212</i>	690	263	Y	Corner drive, standard → <i>from page 212</i>
801 – 1000	890	490	Corner drive, standard → <i>from page 212</i>	890	413	Y	Corner drive, standard → <i>from page 212</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 212</i>	1090	513	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 212</i>	1290	563	Y	Corner drive, standard → <i>from page 212</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 212</i>	1490	563	Y	Corner drive, standard → <i>from page 212</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 212</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 212</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 212</i>	1890	1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 212</i>	2090	1000	Y	Corner drive, standard → <i>from page 212</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 212</i>	2290	1000	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.

4.7.1.1.2 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.

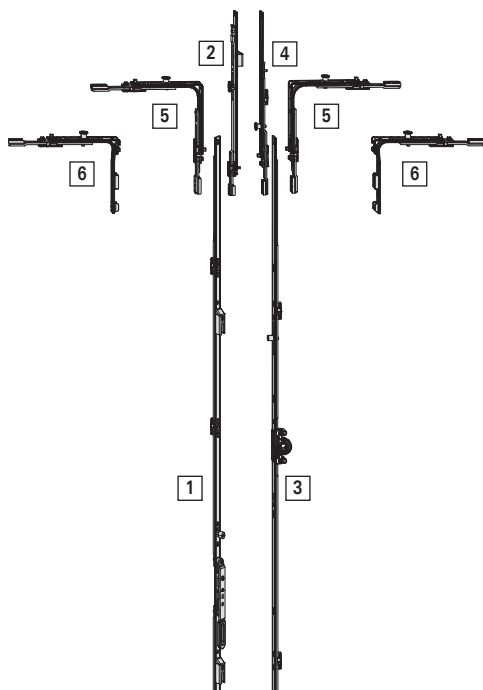


INFO

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 223*

4.7.1.2 Centred / variable handle height

4.7.1.2.1 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 248*

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 174*
- ☐ T&T espagnolette – centred / variable handle height, backset 15 mm → *from page 174*
- ☐ T&T espagnolette – centred / variable handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 174*

Optional: determine the centre lock, standard [4]. → *from page 244*



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 213</i>	800	311 – 510	N	Corner drive, standard → <i>from page 212</i>
801 – 900		276 – 335	Corner drive, standard → <i>from page 212</i>	980	351 – 400	N	Corner drive, standard → <i>from page 212</i>
901 – 1200	980	249 – 448	Corner drive, standard → <i>from page 212</i>	1380	401 – 600	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1600	1380	448 – 658	Corner drive, standard → <i>from page 212</i>		601 – 800	Y	Corner drive, standard → <i>from page 212</i>
1601 – 2000	1780	680 – 880	Corner drive, standard → <i>from page 212</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2400	2180	880 – 1080	Corner drive, standard → <i>from page 212</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

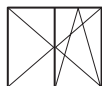
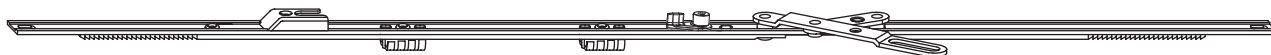
Application range		Lever-operated espagnolette, standard		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
370 – 450	400	255 – 265	Special corner drive, short → <i>from page 213</i>	430	215 – 225	N	Special corner drive, short → <i>from page 213</i>
451 – 520		266 – 300	Special corner drive, short → <i>from page 213</i>		226 – 260	N	Corner drive, standard → <i>from page 212</i>
521 – 620		301 – 350	Corner drive, standard → <i>from page 212</i>		261 – 310	N	Corner drive, standard → <i>from page 212</i>
621 – 650	680	393 – 407	Special corner drive, short → <i>from page 213</i>	580	311 – 400	Y	Corner drive, standard → <i>from page 212</i>
651 – 800		408 – 482	Corner drive, standard → <i>from page 212</i>				
801 – 1200	980	482 – 682	Corner drive, standard → <i>from page 212</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1600	1380	448 – 648	Corner drive, standard → <i>from page 212</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 212</i>
1601 – 2000	1780	680 – 880	Corner drive, standard → <i>from page 212</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2400	2180	880 – 1080	Corner drive, standard → <i>from page 212</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.

4.7.1.2.2 Backset 8 to 50 mm



									Nº
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 309*.



INFO

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



INFO

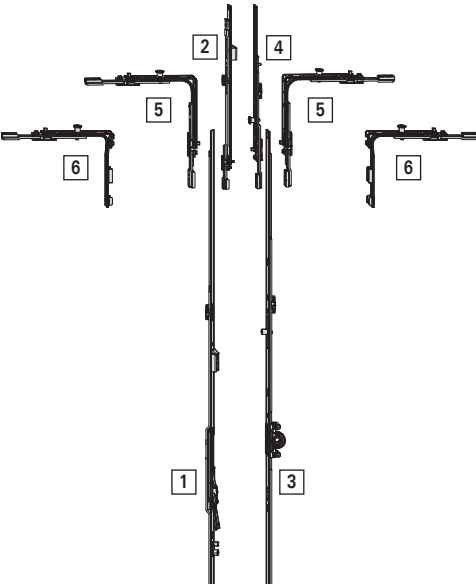
When using the lever-operated espagnolette, standard (RC 1 N, RC 2, RC 2 N), fit the stay guide for Turn-Only sashes → *from page 223*



4.7.2 Plus

4.7.2.1 VT – fixed handle height

4.7.2.1.1 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 248*

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 164*
- T&T espagnolette, VT – fixed handle height, backset 15 mm → *from page 164*
- T&T espagnolette, VT – fixed handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 164*

Optional: determine the centre lock, standard [4]. → *from page 244*

Espagnolettes
Floating-mullion sash espagnolette
Plus

Backset 8 mm

Application range SRH	Lever-operated espagnolette Plus, VT			T&T espagnolette, VT			
	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 510	600	233	Special corner drive, short → <i>from page 213</i>	490	120	N	Corner drive, standard → <i>from page 212</i>
511 – 600			Corner drive, standard → <i>from page 212</i>	600	170	N	Corner drive, standard → <i>from page 212</i>
601 – 800	690	325	Corner drive, standard → <i>from page 212</i>	690	263	N	Corner drive, standard → <i>from page 212</i>
801 – 1000	890	335	Corner drive, standard → <i>from page 212</i>	890	413	Y	Corner drive, standard → <i>from page 212</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 212</i>	1090	513	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 212</i>	1290	563	Y	Corner drive, standard → <i>from page 212</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 212</i>	1490	563	Y	Corner drive, standard → <i>from page 212</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 212</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 212</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 212</i>	1890	1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 212</i>	2090	1000	Y	Corner drive, standard → <i>from page 212</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 212</i>	2290	1000	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

Application range SRH	Lever-operated espagnolette Plus, VT			T&T espagnolette, VT			
	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 510	600	195	Special corner drive, short → <i>from page 213</i>	460	120	N	Corner drive, standard → <i>from page 212</i>
511 – 600			Corner drive, standard → <i>from page 212</i>	600	170	Y	Corner drive, standard → <i>from page 212</i>
601 – 800	690	300	Corner drive, standard → <i>from page 212</i>	690	263	Y	Corner drive, standard → <i>from page 212</i>
801 – 1000	890	490	Corner drive, standard → <i>from page 212</i>	890	413	Y	Corner drive, standard → <i>from page 212</i>
1001 – 1200	1090	335	Corner drive, standard → <i>from page 212</i>	1090	513	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1400	1290	335	Corner drive, standard → <i>from page 212</i>	1290	563	Y	Corner drive, standard → <i>from page 212</i>
1401 – 1600	1490	335	Corner drive, standard → <i>from page 212</i>	1490	563	Y	Corner drive, standard → <i>from page 212</i>
1601 – 1800	1690	335	Corner drive, standard → <i>from page 212</i>	1690	563 / 1000	Y	Corner drive, standard → <i>from page 212</i>
1801 – 2000	1890	640	Corner drive, standard → <i>from page 212</i>	1890	1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2200	2090	640	Corner drive, standard → <i>from page 212</i>	2090	1000	Y	Corner drive, standard → <i>from page 212</i>
2201 – 2400	2290	640	Corner drive, standard → <i>from page 212</i>	2290	1000	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.



4.7.2.1.2 Backset 8 to 50 mm



												Nº
8 15 25 30 35 40 45 50	431 – 710	600	200	144	Y	N	–	Y	– / 1	– / P	Roto Sil	2007106
	601 – 800	690	200	234	Y	N	–	–	–	–	Roto Sil	2007116
	801 – 1000	890	200	496	Y	N	1	–	–	–	Roto Sil	2007117
	1001 – 1200	1090	200	496	Y	N	1	–	–	–	Roto Sil	2007118
	1201 – 1400	1290	200	546	Y	N	1	–	–	–	Roto Sil	2007119
	1401 – 1600	1490	200	546	Y	N	2	–	–	–	Roto Sil	2007120
	1601 – 1800	1690	200	546	Y	Y	2	–	–	–	Roto Sil	2007121
	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



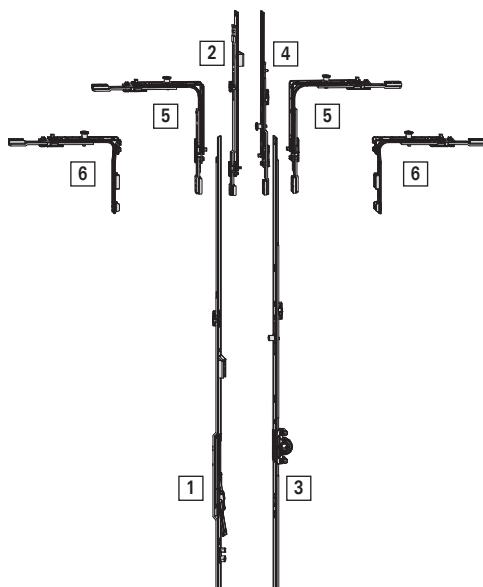
INFO
Lifting mishandling device (stop for floating-mullion sash espagnolette) preassembled as standard.



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 222*

4.7.2.2 Centred / variable handle height

4.7.2.2.1 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 248*

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 174*
- ☐ T&T espagnolette – centred / variable handle height, backset 15 mm → *from page 174*
- ☐ T&T espagnolette – centred / variable handle height, backset 25, 30, 35, 40, 45, 50 mm → *from page 174*

Optional: determine the centre lock, standard [4]. → *from page 244*



Backset 8 mm

Application range		Lever-operated espagnolette Plus		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 520	400	194 – 239	Special corner drive, short → <i>from page 213</i>	500	215 – 260	N	Special corner drive, short → <i>from page 213</i>
521 – 620		240 – 289	Corner drive, standard → <i>from page 212</i>		261 – 310	N	Corner drive, standard → <i>from page 212</i>
621 – 720	680	290 – 329	Special corner drive, short → <i>from page 213</i>	800	311 – 510	Y	Corner drive, standard → <i>from page 212</i>
721 – 800		330 – 379	Corner drive, standard → <i>from page 212</i>				
801 – 1200	980	380 – 579	Corner drive, standard → <i>from page 212</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1600	1380	580 – 779	Corner drive, standard → <i>from page 212</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 212</i>
1601 – 2000	1780	780 – 979	Corner drive, standard → <i>from page 212</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2400	2180	980 – 1179	Corner drive, standard → <i>from page 212</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.

Backset of 15 mm and above

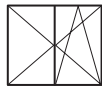
Application range		Lever-operated espagnolette Plus		T&T espagnolette			
SRH	Component length	Toggle lever position	Corner drive type	Component length	Handle height	LMD	Corner drive type
431 – 450	400	194 – 204	Special corner drive, short → <i>from page 213</i>	430	215 – 225	N	Special corner drive, short → <i>from page 213</i>
451 – 520		205 – 239	Special corner drive, short → <i>from page 213</i>		226 – 260	N	Corner drive, standard → <i>from page 212</i>
521 – 620		240 – 289	Corner drive, standard → <i>from page 212</i>		261 – 310	N	Corner drive, standard → <i>from page 212</i>
621 – 700	680	290 – 329	Special corner drive, short → <i>from page 213</i>	580	311 – 400	Y	Corner drive, standard → <i>from page 212</i>
701 – 800		330 – 379	Corner drive, standard → <i>from page 212</i>				
801 – 1200	980	380 – 579	Corner drive, standard → <i>from page 212</i>	980	401 – 600	Y	Corner drive, standard → <i>from page 212</i>
1201 – 1600	1380	580 – 779	Corner drive, standard → <i>from page 212</i>	1380	601 – 800	Y	Corner drive, standard → <i>from page 212</i>
1601 – 2000	1780	780 – 979	Corner drive, standard → <i>from page 212</i>	1780	801 – 1000	Y	Corner drive, standard → <i>from page 212</i>
2001 – 2400	2180	980 – 1179	Corner drive, standard → <i>from page 212</i>	2180	1001 – 1200	Y	Corner drive, standard → <i>from page 212</i>



INFO

A centre lock is required from SRH 2401 mm.

4.7.2.2 Backset 8 to 50 mm



										Nº
8	431 – 620	400	100 / 100	194 – 289	N	N	–	Roto Sil		2007128
15	621 – 800	680	100 / 100	290 – 379	Y	N	1	Roto Sil		2007129
25	801 – 1200	980	200 / 200	380 – 579	Y	N	1	Roto Sil		2007130
30										
35	1001 – 1400	1180	200 / 200	480 – 679	Y	N	1	Roto Sil		2007131
40	1201 – 1600	1380	200 / 200	580 – 779	Y	N	2	Roto Sil		2007132
45	1601 – 2000	1780	200 / 200	780 – 979	Y	Y	2	Roto Sil		2007133
50	2001 – 2400	2180	200 / 200	980 – 1179	Y	Y	4	Roto Sil		2007134



INFO

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

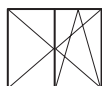
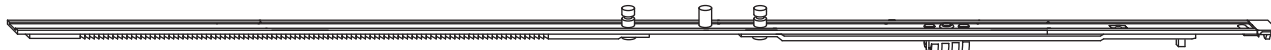


INFO

When using the lever-operated espagnolette Plus (RC 1 N, RC 2, RC 2 N), fit the basic security stay guide (Tilt&Turn) or security stay guide (Tilt&Turn) → *from page 222*

4.7.3 Separate toggle lever

4.7.3.1 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							
35	1601 – 1800	1690	200	335	Roto Sil		291750
40	1801 – 2000	1890	200	640	Roto Sil		291751
45	2001 – 2200	2090	200	640	Roto Sil		291762
50	2201 – 2400	2290	200	640	Roto Sil		291763

For the compatible separate toggle lever, see → *from page 205*.



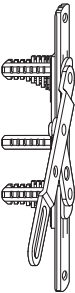
4.7.3.2 Centred / variable handle height



						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
40	1601 – 2000	1780	200 / 200	680 – 890	Roto Sil	293636
45	2001 – 2400	2180	200 / 200	880 – 1090	Roto Sil	293637

For the compatible separate toggle lever, see → *from page 205*.

4.7.3.3 Separate toggle lever



		Nº
Separate toggle lever	Roto Sil	291743



INFO

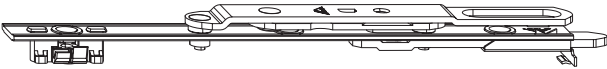
Is necessary for each floating-mullion sash espagnolette with separate toggle lever.



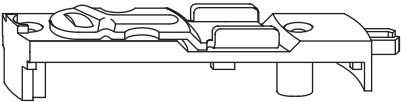
4.8 Shootbolt

4.8.1 Opposite hardware groove

4.8.1.1 Standard

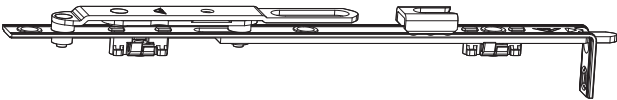


		Nº
200	Roto Sil	633419
390	Roto Sil	618666



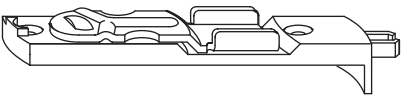
		Nº
97	Roto Sil	305638

4.8.1.2 VT



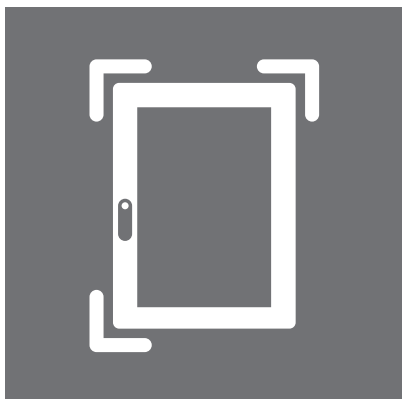
		Nº
265	Roto Sil	628710

4.8.2 Euro-rebate



				Nº
97	18	12	Roto Sil	260189









Standard

See page 212

Short

See page 213

Floating mullion

Standard 214

Threshold 214

Threshold

See page 215

Sash stay

See page 216

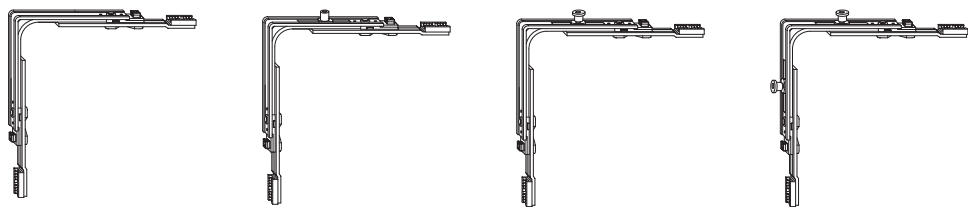
Special solutions

Pitched window 217

Striker and protrusion 217

5 Corner drives

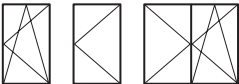
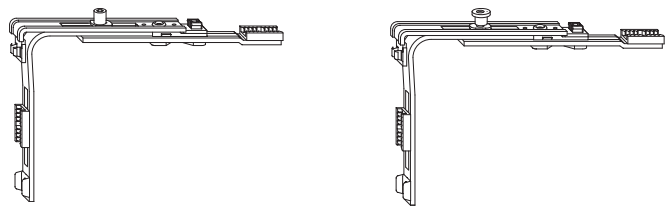
5.1 Standard



						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

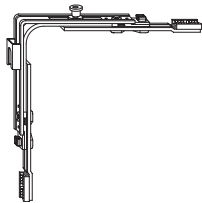


						Nº
Special short corner drive	110 / 10	1	E	Top	Roto Sil	260280
		1	P	Top Bottom	Roto Sil	260282
		1	V	Top Bottom	Roto Sil	281288



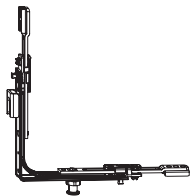
5.3 Floating mullion

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	

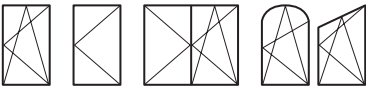
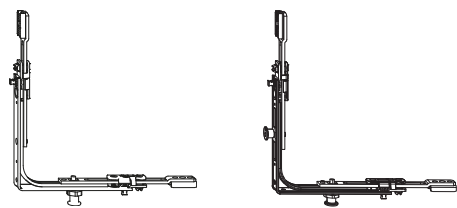
5.3.2 Threshold



									Nº
Floating mullion corner drive	110 / 110	Second opening sash / welded-on striker	7	1	1	V	Bottom	Roto Sil	823316
			10	1	1	V	Bottom	Roto Sil	794779
		Second opening sash / built-in slide guard	7	1	1	V	Bottom	Roto Sil	858513
		Second opening sash / welded-on striker	10	1	1	V	Bottom	Roto Sil	858515



5.4 Threshold



							
Threshold corner drive	110 / 110	Corner drive, standard; locking cam, extended	7	1	V	Roto Sil	642264
			7	2	V	Roto Sil	823317
			10	1	V	Roto Sil	614456
			10	2	V	Roto Sil	794778



INFO
 Connecting thresholds

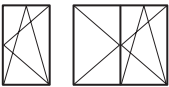
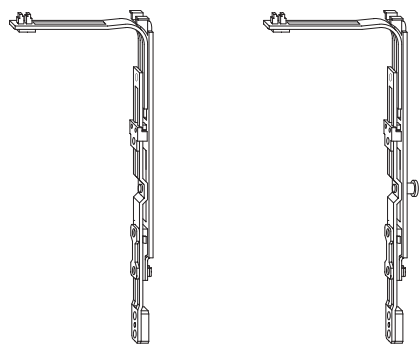
The following document provides a detailed description of how to connect thresholds to the Roto NX hardware system.



IMO 347



5.5 Sash stay

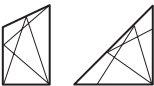
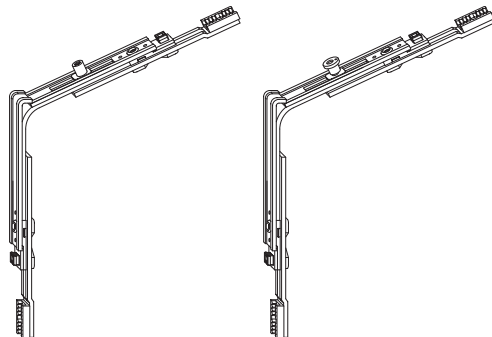


						Nº
Sash stay corner drive	180 / 0	–	–	Roto Sil	293521	
		1	P	Roto Sil	260286	
		1	V	Roto Sil	260284	



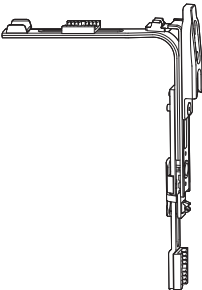
5.6 Special solutions

5.6.1 Pitched window

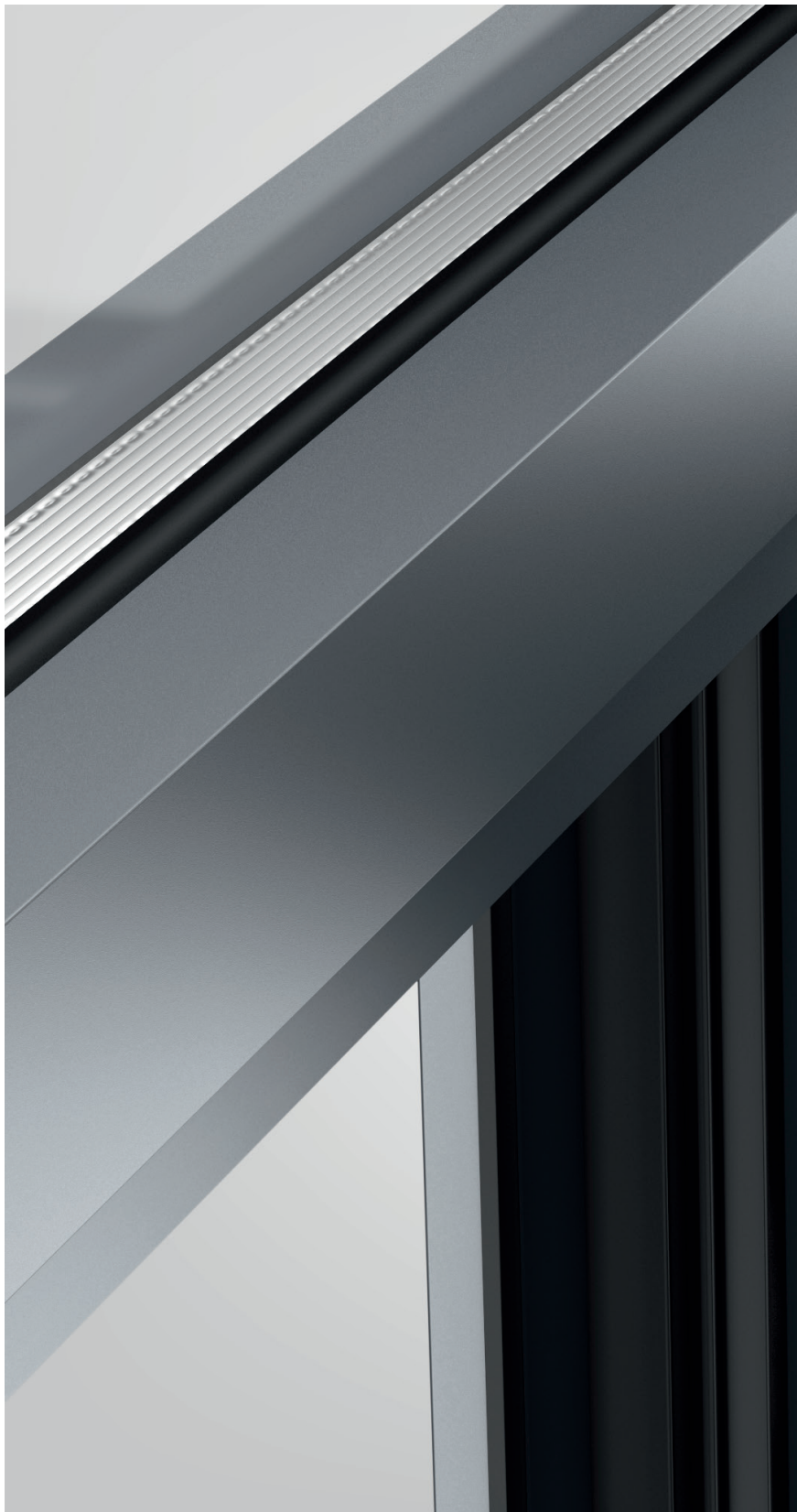


					Nº
Corner drive for pitched windows	110 / 110	1	E	Roto Sil	260279
		1	V	Roto Sil	260278

5.6.2 Striker and protrusion



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





**Stay guide**

Hinge side P / hinge side A16	222
Hinge side Designo A16	223

Stay arm

Hinge side P / hinge side A16	225
Hinge side Designo A16	228

Rebate stay guide

Hinge side P / hinge side A16	230
Hinge side A16 Designo	230

Rebate stay arm

Hinge side A16	231
Hinge side Designo A16	231

Turn-Only/Tilt-Only rebate hinge

Hinge side A16	232
----------------	-----

Stay bearing

Hinge side P / hinge side A16	233
Stay-bearing pins	235

Cover caps

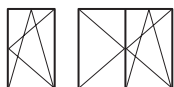
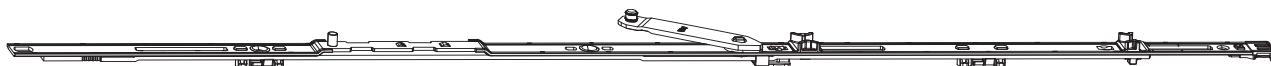
Hinge side A16	236
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6 Sash stay

6.1 Stay guide

6.1.1 Hinge side P / hinge side A16

6.1.1.1 Basic security – RC 1 N



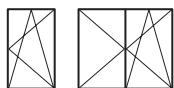
									Nº
Y	Y	290 – 410	300	120	150	–	–	Roto Sil	787345
		411 – 600	490	190	250	–	–	Roto Sil	787346
		601 – 800	690	200	350	–	–	Roto Sil	787347
		801 – 1000	890	200	500	–	–	Roto Sil	787348
			890	200	500	1	E	Roto Sil	788617
		1001 – 1200	1090	200	500	–	–	Roto Sil	787350
			1090	200	500	1	E	Roto Sil	787349
		1201 – 1400	1290	200	500	1	E	Roto Sil	787351



INFO

Additional stay arm required from SRW 1400 mm.

6.1.1.2 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



6.1.1.3 Turn-Only sash



								Nº
Basic security	290 – 410	300	120	150	–	–	Roto Sil	787366
	411 – 600	490	190	250	–	–	Roto Sil	787367
	601 – 800	690	200	350	–	–	Roto Sil	787368
	801 – 1000	890	200	500	1	E	Roto Sil	787369
Security	801 – 1000	890	200	500	1	V	Roto Sil	787370



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

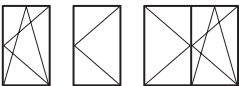
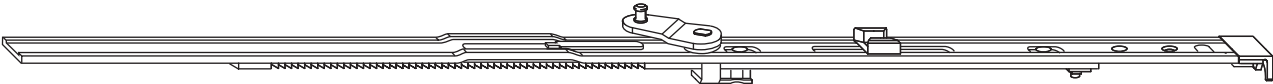


INFO
Centre lock required from SRW 1001 mm.



6.1.2 Hinge side Designo A16

6.1.2.1 Basic security

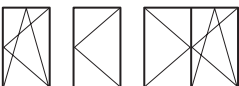


								Nº
330 – 600	490	170	250	–	–	Anti-slam device	Roto Sil	385393
601 – 800	690	200	350	–	–	–	Roto Sil	385394
801 – 1000	890	200	500	1	E	–	Roto Sil	385415
1001 – 1200	1090	200	500	1	E	–	Roto Sil	385416



INFO
Additional stay arm required from SRW 1201 mm.

6.1.2.2 Security



							Nº
801 – 1000	890	200	500	1	V	Roto Sil	450373

							Nº
1001 – 1200	1090	200	500	1	V	Roto Sil	450374



INFO

Additional stay arm required from SRW 1201 mm.

6.1.2.3 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 18 mm	Roto Sil	815784



INFO

With centre lock between SRW 711 and 1400 mm.

Lever-operated espagnolette – plus



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



INFO

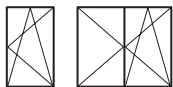
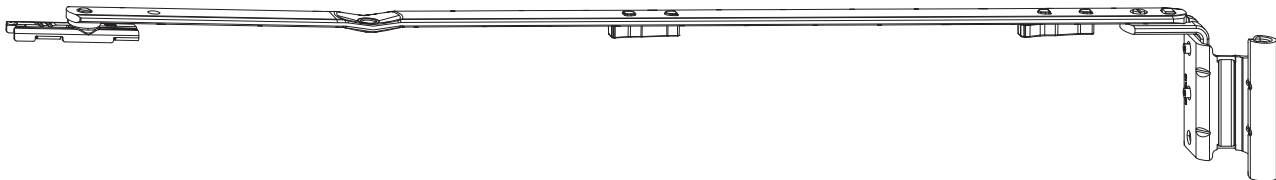
With centre lock between SRW 801 and 1400 mm.



6.2 Stay arm

6.2.1 Hinge side P / hinge side A16

6.2.1.1 Standard



						Nº
12/18-9	290 – 410	150	Y	Roto Sil	Left	787217
			Y	Roto Sil	Right	787218
	411 – 600	250	Y	Roto Sil	Left	787219
			Y	Roto Sil	Right	787220
	601 – 800	350	Y	Roto Sil	Left	787221
			Y	Roto Sil	Right	787222
12/20-9	290 – 410	150	Y	Roto Sil	Left	787223
			Y	Roto Sil	Right	787224
	411 – 600	250	Y	Roto Sil	Left	787225
			Y	Roto Sil	Right	787226
	601 – 800	350	Y	Roto Sil	Left	787227
			Y	Roto Sil	Right	787228
12/18-13	290 – 410	150	Y	Roto Sil	Left	787229
			Y	Roto Sil	Right	787230
	411 – 600	250	Y	Roto Sil	Left	787231
			Y	Roto Sil	Right	787232
	601 – 800	350	Y	Roto Sil	Left	787233
			Y	Roto Sil	Right	787234
12/20-13	290 – 410	150	Y	Roto Sil	Left	2007269
			Y	Roto Sil	Right	2007270
	411 – 600	250	Y	Roto Sil	Left	2007271
			Y	Roto Sil	Right	2007272
	601 – 800	350	Y	Roto Sil	Left	2007273
			Y	Roto Sil	Right	2007274
12/20-13	290 – 410	150	Y	Roto Sil	Left	2007275
			Y	Roto Sil	Right	2007276
	411 – 600	250	Y	Roto Sil	Left	787233
			Y	Roto Sil	Right	787234
	601 – 800	350	Y	Roto Sil	Left	787235
			Y	Roto Sil	Right	787236
12/20-13	290 – 410	150	Y	Roto Sil	Left	787237
			Y	Roto Sil	Right	787238
	411 – 600	250	Y	Roto Sil	Left	787239
			Y	Roto Sil	Right	787240
	601 – 800	350	Y	Roto Sil	Left	787241
			Y	Roto Sil	Right	787242

For compatible stay bearings, see → *from page 233*.

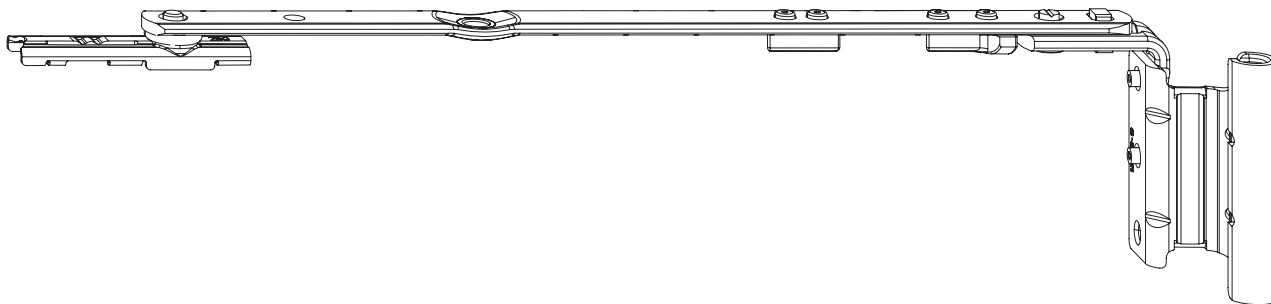
For compatible cover caps, see → *from page 238*.



INFO

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

6.2.1.2 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	Right	814704
	601 – 800	350	N	Roto Sil	Left	814705
			N	Roto Sil	Right	814706
12/18-13	290 – 410	150	N	Roto Sil	Left	814707
			N	Roto Sil	Right	814708
	411 – 600	250	N	Roto Sil	Left	814709
			N	Roto Sil	Right	814710
	601 – 800	350	N	Roto Sil	Left	814711
			N	Roto Sil	Right	814712
12/20-13	290 – 410	150	N	Roto Sil	Left	814713
			N	Roto Sil	Right	814714
	411 – 600	250	N	Roto Sil	Left	814715
			N	Roto Sil	Right	814716
	601 – 800	350	N	Roto Sil	Left	814717
			N	Roto Sil	Right	814718

For compatible stay bearings, see → *from page 233*.

For compatible cover caps, see → *from page 238*.

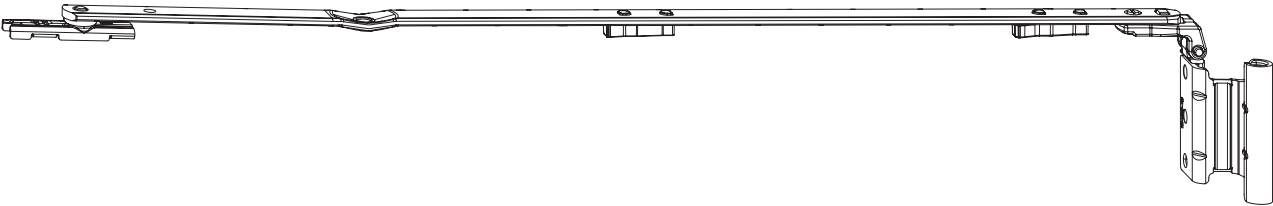


INFO

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



6.2.1.3 Pitched window (PW)



						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
12/20-9	290 – 410	150	Y	Roto Sil	Left	795154
			Y	Roto Sil	Right	795155
	411 – 600	250	Y	Roto Sil	Left	795156
			Y	Roto Sil	Right	795157
	601 – 800	350	Y	Roto Sil	Left	795158
			Y	Roto Sil	Right	795159
12/18-13	290 – 410	150	Y	Roto Sil	Left	795160
			Y	Roto Sil	Right	795161
	411 – 600	250	Y	Roto Sil	Left	795162
			Y	Roto Sil	Right	795163
	601 – 800	350	Y	Roto Sil	Left	795164
			Y	Roto Sil	Right	795165
12/20-13	290 – 410	150	Y	Roto Sil	Left	795166
			Y	Roto Sil	Right	795167
	411 – 600	250	Y	Roto Sil	Left	795168
			Y	Roto Sil	Right	795169
	601 – 800	350	Y	Roto Sil	Left	795170
			Y	Roto Sil	Right	795171

For compatible stay bearings, see → *from page 233*.

For compatible cover caps, see → *from page 238*.

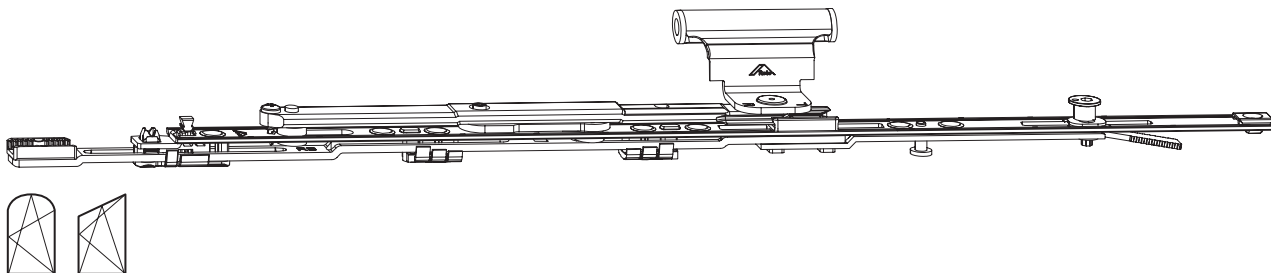
For the end piece, see → *from page 318*.



INFO

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

6.2.1.4 Arched window



					Nº
12/18-9	1	V	Roto Sil	–	896116
12/20-9	1	V	Roto Sil	–	896117
12/18-13	1	V	Roto Sil	–	2007293
12/20-13	1	V	Roto Sil	–	896118

For compatible stay bearings, see → *from page 233*.

For compatible cover caps, see → *from page 238*.



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

6.2.2 Hinge side Designo A16

6.2.2.1 Stay arm



						Nº
9 10	No. 1	V.02	250	Roto Sil	Left	628272
				Roto Sil	Right	628271
			350	Roto Sil	Left	628274
				Roto Sil	Right	628273
			500	Roto Sil	Left	628296
				Roto Sil	Right	628295
	No. 4	V.01	250	Roto Sil	Left	624507
				Roto Sil	Right	624506
			350	Roto Sil	Left	624509
				Roto Sil	Right	624508
			500	Roto Sil	Left	624511
				Roto Sil	Right	624510



						Nº
13	No. 1	V.02	250	Roto Sil	Left	819164
				Roto Sil	Right	819175
			350	Roto Sil	Left	819176
				Roto Sil	Right	819177
			500	Roto Sil	Left	819178
				Roto Sil	Right	819179
	No. 4	V.01	250	Roto Sil	Left	624517
				Roto Sil	Right	624516
			350	Roto Sil	Left	624519
				Roto Sil	Right	624518
			500	Roto Sil	Left	624521
				Roto Sil	Right	624520

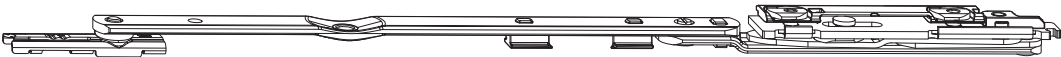


INFO

Hinge sides A16 and Designo A16 are designed for HA 9 mm and HA 13 mm. Before using different hardware axes, a separate profile assessment is recommended.



6.2.2.2 TiltFirst stay arm (TF)



						Nº
9 10	No. 4	V.01	250	Roto Sil	Left	630781
				Roto Sil	Right	630780
			350	Roto Sil	Left	630783
				Roto Sil	Right	630782
			500	Roto Sil	Left	630795
				Roto Sil	Right	630784
	No. 1	V.02	250	Roto Sil	Left	735554
				Roto Sil	Right	735553
			350	Roto Sil	Left	735556
				Roto Sil	Right	735555
			500	Roto Sil	Left	735558
				Roto Sil	Right	735557
13	No. 4	V.01	250	Roto Sil	Left	736910
				Roto Sil	Right	736909
			350	Roto Sil	Left	736912
				Roto Sil	Right	736911
			500	Roto Sil	Left	736914
				Roto Sil	Right	736913

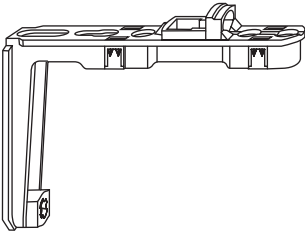


INFO

Hinge sides A16 and Designo A16 are designed for HA 9 mm and HA 13 mm. Before using different hardware axes, a separate profile assessment is recommended.

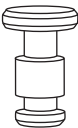
6.3 Rebate stay guide

6.3.1 Hinge side P / hinge side A16



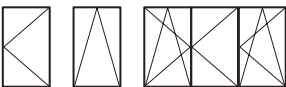
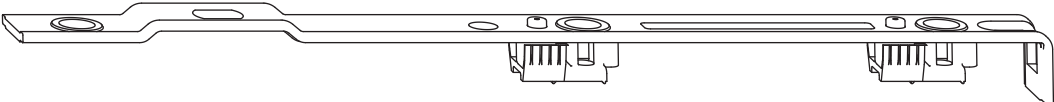
			Nº
Rebate stay guide for hinge side P / T / A16	110 / 65	Roto Sil	331488

For compatible rebate stay arms, see → *from page 231*.



		Nº
Packer for Tilt-Only sash	Roto Sil	230651

6.3.2 Hinge side A16 Designo



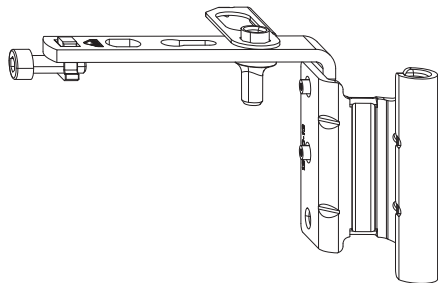
				Nº
Rebate stay guide for hinge side Designo (HA 9 / HA 13)	224 / 15	Not for Tilt-Only windows	Roto Sil	477255
	224 / 50	–	Roto Sil	640563

For compatible rebate stay arms, see → *from page 231*.



6.4 Rebate stay arm

6.4.1 Hinge side A16



			Nº
12/18-9	Roto Sil	Left	787371
	Roto Sil	Right	787372
12/18-13	Roto Sil	Left	2007299
	Roto Sil	Right	2007300
12/20-9	Roto Sil	Left	787373
	Roto Sil	Right	787374
12/20-13	Roto Sil	Left	787375
	Roto Sil	Right	787376

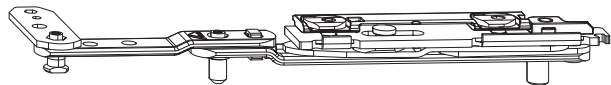


For compatible stay bearings, see → *from page 233*.

For the compatible rebate stay guide, see → *from page 230*.

6.4.2 Hinge side Designo A16

6.4.2.1 Hinge side Designo A16



					Nº
9 10	No. 4	V.01	Roto Sil	Left	624505
			Roto Sil	Right	624504
	No. 1	V.02	Roto Sil	Left	628298
			Roto Sil	Right	628297
13	No. 4	V.01	Roto Sil	Left	624515
			Roto Sil	Right	624514
	No. 1	V.02	Roto Sil	Left	819182
			Roto Sil	Right	819183



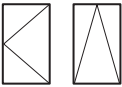
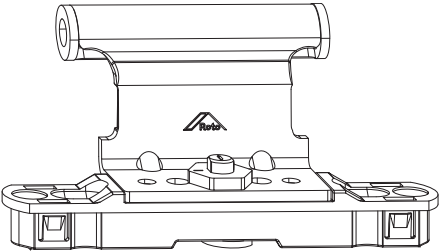
INFO

Hinge sides A16 and Designo A16 are designed for HA 9 mm and HA 13 mm. Before using different hardware axes, a separate profile assessment is recommended.

For the compatible rebate stay guide, see → *from page 230*.

6.5 Turn-Only/Tilt-Only rebate hinge

6.5.1 Hinge side A16



					
12/18-9	±3.0 mm	With compensation	Y	Roto Sil	787379
	–	Without compensation	Y	Roto Sil	787380
12/20-9	±3.0 mm	With compensation	Y	Roto Sil	787383
	–	Without compensation	Y	Roto Sil	787384
12/18-13	±3.0 mm	With compensation	Y	Roto Sil	787381
	–	Without compensation	Y	Roto Sil	787382
12/20-13	±3.0 mm	With compensation	Y	Roto Sil	787387
	–	Without compensation	Y	Roto Sil	787388

For compatible stay bearings, see → *from page 233*.

For compatible cover caps, see → *from page 238*.



INFO

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

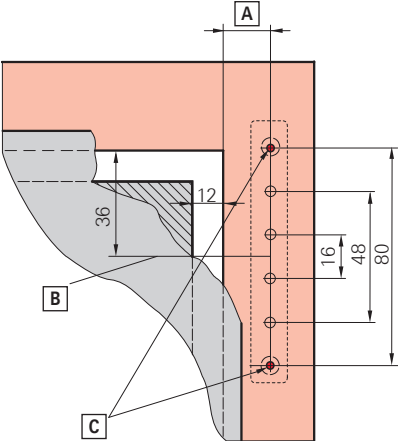


6.6 Stay bearing

6.6.1 Hinge side P / hinge side A16

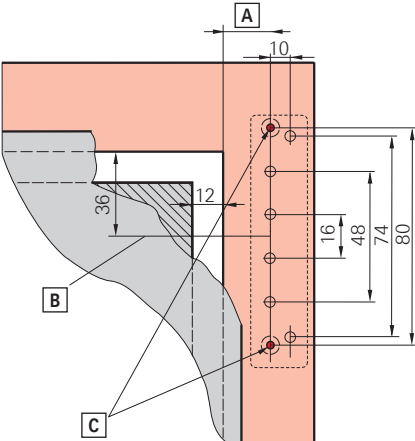
Installation and description

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
[B]	Stay bearing centre	-
[C]	Stay bearing P 3/130, drill hole Ø 3 mm, 4 mm deep	-
	Stay bearing P 6/130, 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
[B]	Stay bearing centre	-
[C]	Stay bearing P 6/150, drill hole Ø 6 mm, 9 mm deep	-

6.6.1.1 Standard – P 3/130 | P 6/130

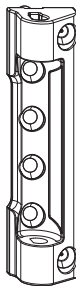


					Nº
P 3/130	max. 130 kg	Y	2 x Ø 3 mm	Roto Sil	859171
P 6/130	max. 130 kg	Y	2 x Ø 6 mm	Roto Sil	859172

One stay-bearing pin is required for every stay bearing. For details, see → *from page 235*.

For compatible cover caps, see → *from page 236*.

6.6.1.2 Standard – P 6/150

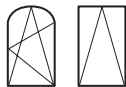
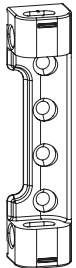


					Nº
P 6/150	max. 150 kg	Y	2 x Ø 6 mm	Roto Sil	859173

One stay-bearing pin is required for every stay bearing. For details, see → *from page 235*.

For compatible cover caps, see → *from page 236*.

6.6.1.3 Laterally adjustable



					Nº
P 3/100	max. 100 kg	Y	2 x Ø 3 mm	Roto Sil	840384



					Nº
P 6/100	max. 100 kg	Y	2 x Ø 6 mm	Roto Sil	840403

One stay-bearing pin is required for every stay bearing. For details, see → *from page 235*.
For compatible cover caps, see → *from page 237*.

6.6.2 Stay-bearing pins



			Nº
Stay-bearing pin	86	Roto Sil	834705



6.7 Cover caps

6.7.1 Hinge side A16

6.7.1.1 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



6.7.1.2 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



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

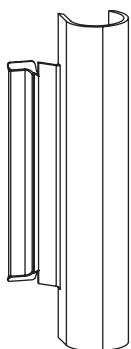


INFO

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 12/20-9 12/20-13 12/21-13 12/22-13		R01.1	Natural silver	788403
		R01.2	Nickel silver	810816
		R01.3	Titanium	788404
		R03.1	Brass matt	788405
		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

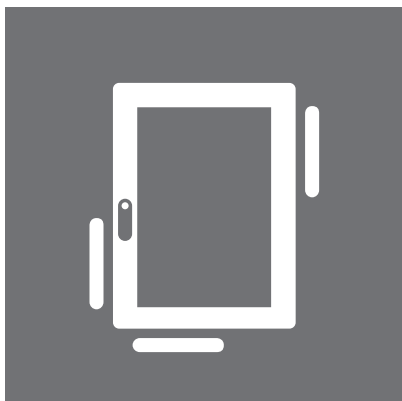


Without link



			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







**Multipart**

Standard	244
Security	245
Thresholds	246
Can be cropped	247

Floating mullion

See page	248
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Reverse-action

See page	249
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Arched window

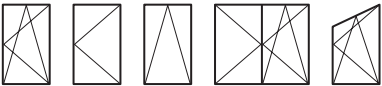
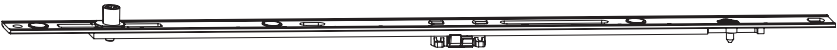
Standard	250
Horizontal arched component	251
Arched component, vertical	251

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

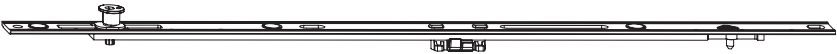


						Nº
Y	200	–	–	–	Roto Sil	308267
		–	–	LMD mount	Roto Sil	767639
		1	E	–	Roto Sil	450821
	400	–	–	–	Roto Sil	297858
		1	E	–	Roto Sil	280346
	600	1	E	–	Roto Sil	255282



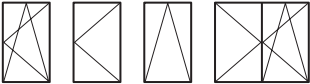
7.1.2 Security

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

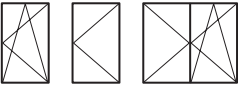
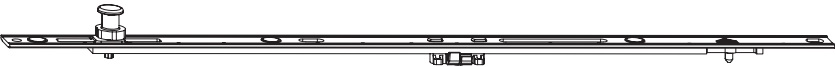


						Nº
Y	130	1	V	–	Roto Sil	567456
	200	1	P	–	Roto Sil	622880
		1	V	Special packaging	Roto Sil	337708
	400	1	P	–	Roto Sil	622881
		1	V	Special packaging	Roto Sil	337710
	600	1	P	–	Roto Sil	622882
		1	V	–	Roto Sil	296852
		1	V	Special packaging	Roto Sil	337711



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



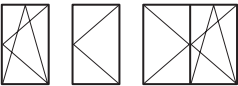
INFO
Connecting thresholds

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.

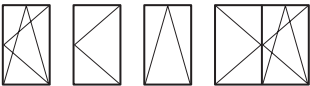
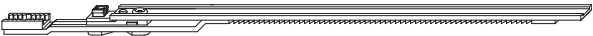


IMO 347



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

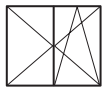
Can be cropped on both sides



						Nº
Y	980	200 / 200	1	P	Roto Sil	610174



7.2 Floating mullion



					Nº
Y	200	Bottom	1	Roto Sil	280342
		Top	1	Roto Sil	450822
	400	Bottom	1	Roto Sil	280343
		Top	1	Roto Sil	280345
	600	Bottom	1	Roto Sil	609059
		Top	1	Roto Sil	280331





7.3 Reverse-action

Couplable on one side



						Nº
N	400	To be used horizontally at the bottom	2	P	Roto Sil	330079

Couplable on both sides



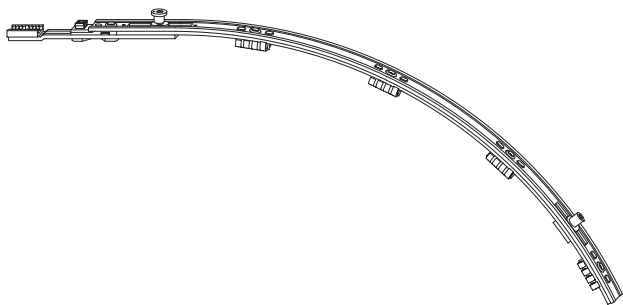
						Nº
Y	400	To be used horizontally at the bottom, below the handle height	2	P	Roto Sil	373968
		To be used horizontally at the top, above the handle height, hinge side	2	P	Roto Sil	377263



7.4 Arched window

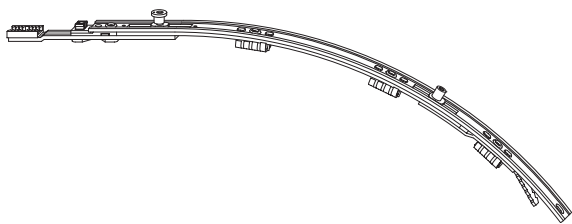
7.4.1 Standard

Couplable on one side



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

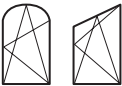
Couplable on both sides



					Nº
Y	590	2 / -	E / -	Roto Sil	245734
		1 / 1	V / E	Roto Sil	245733

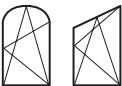


7.4.2 Horizontal arched component



						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

7.4.3 Arched component, vertical



						Nº
530 – 600	380	200	–	–	Roto Sil	812595
601 – 800	690	200	–	–	Roto Sil	774165
801 – 1000	890	200	1	E	Roto Sil	774174
1001 – 1200	1090	200	1	E	Roto Sil	774175
1201 – 1400	1290	200	1	E	Roto Sil	774176
1401 – 1600	1490	200	2	E	Roto Sil	774177









Frame clearances

Hinge side A16	256
Hinge side Designo A16	258

Rebate corner hinges

Hinge side A16	259
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Corner hinges

Hinge side Designo A16	261
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Pivot rests

Hinge side P / hinge side A16	262
Hinge side Designo A16	263

Load transfer

Load transfer, standard	264
Short load transfer	264
Frame bearing load transfer	264

Cover caps

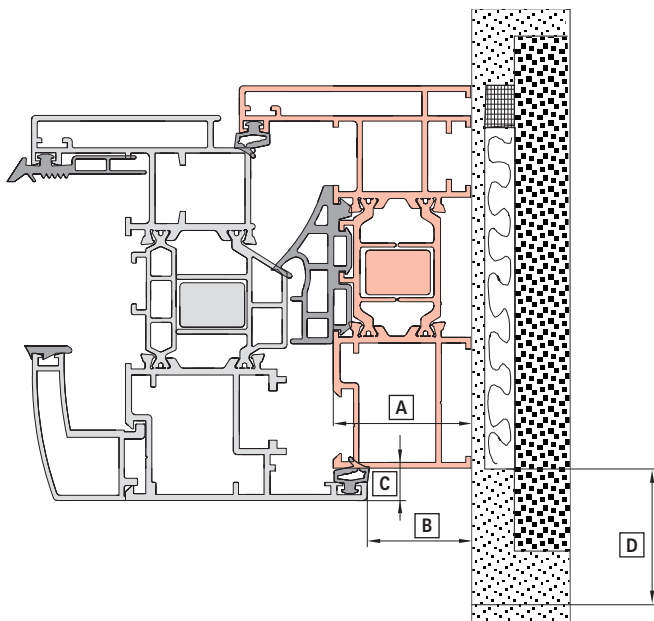
Hinge side A16	265
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8 Corner hinges / pivot rests

8.1 Frame clearances

8.1.1 Hinge side A16

8.1.1.1 Frame clearance



- [A] Frame width
- [B] Frame clearance
- [C] Overlap height
- [D] Free area

Required frame width [A]

Stay bearing	Required frame width [A]		Free area [D]	Opening angle
	System 12/18-9, 12/18-13	System 12/20-9, 12/20-13		
P 3/130, P 6/130	≥ 27.0 mm	≥ 29.0 mm	100 mm	Max. 180°
P 6/150	≥ 32.5 mm	≥ 34.5 mm	100 mm	Max. 150°
P 3/130, P 6/130 Adjustable arch and central hinge	≥ 31.0 mm	≥ 33.0 mm		Max. 90°
P 3/130, P 6/130 Adjustable Tilt-Only sash	≥ 29.0 mm	≥ 31.0 mm		Max. 90°

Required frame clearance [B]*

Stay bearing	Required frame clearance [B]*	Free area [D]
	System 12/18-9, 12/18-13, 12/20-9, 12/20-13	
P 3/130, P 6/130	≥ 21.0 mm	100 mm
P 6/150	≥ 26.5 mm	100 mm
P 3/130, P 6/130	≥ 25.0 mm	
Adjustable arch and central hinge		
P 3/130, P 6/130	≥ 23.0 mm	
Adjustable Tilt-Only sash		

* Up to an overlap height [C] of 21 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 [C] 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 [D], 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.



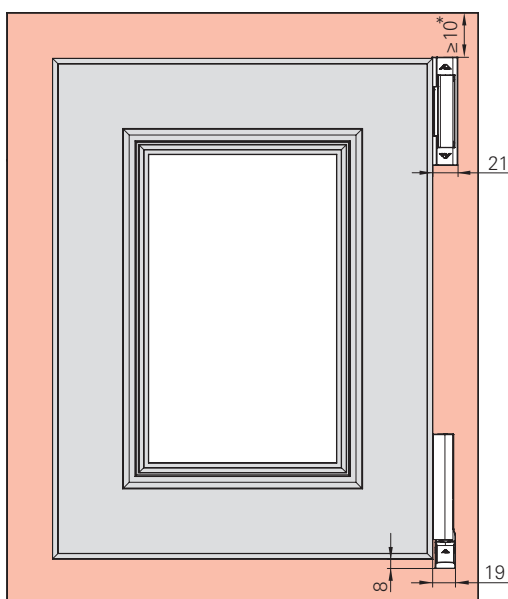
ATTENTION

Property damage caused by damage to bearing components!

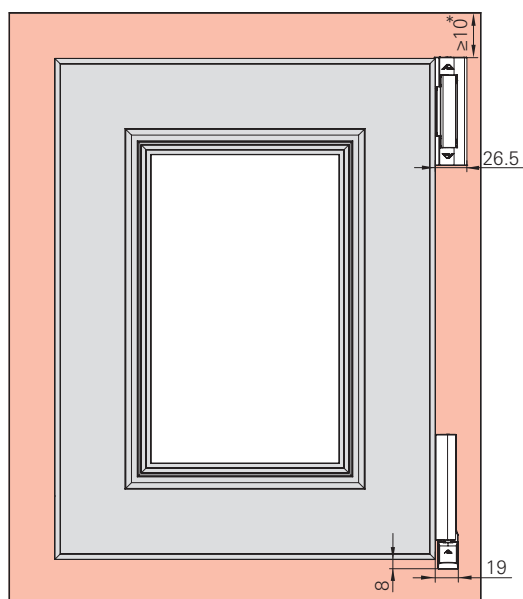
Large overlap heights [C] or components near the reveal (such as skirting boards) may result in excessive leverage on the hinge side. This can damage the bearing components and cause the sash to fall.

- ▶ In the free area [D], 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.

Sash weight 130 kg



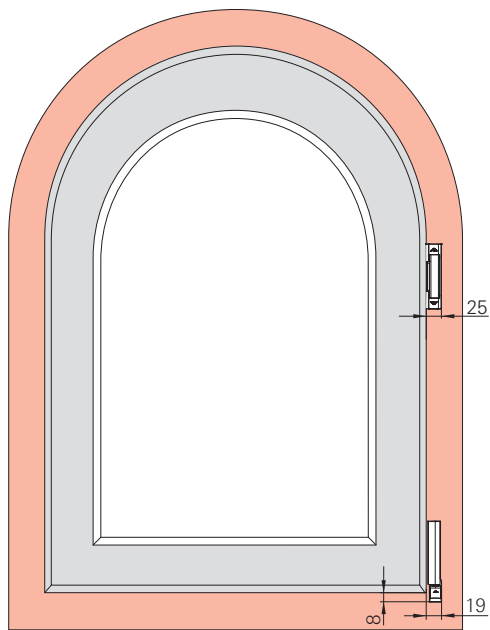
Sash weight 150 kg



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

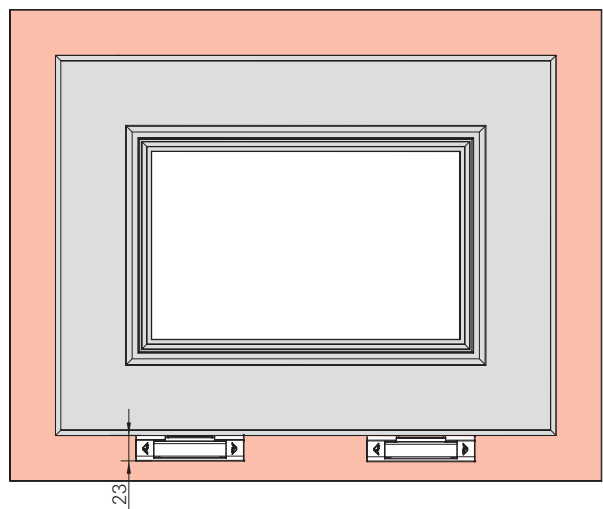
Arch

Sash weight 80 kg



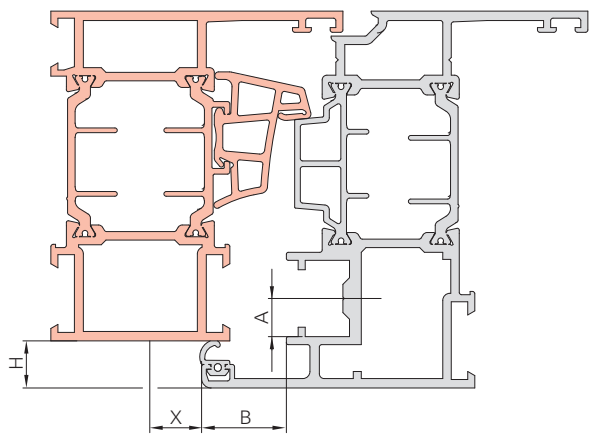
Tilt-Only hardware

Sash weight 80 kg



8.1.2 Hinge side Designo A16

8.1.2.1 Frame clearances with a 90° opening angle



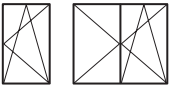
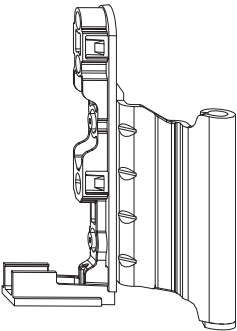
Hardware axis [A]	Overlap height [H]	Overlap width [B]	Frame clearance [X]
9	8	18	9.0
	9	18	9.5
	10	18	10.5
	8	20	7.0
13	9	18	10.0
	10	18	11.5
	8	22	8.0



8.2 Rebate corner hinges

8.2.1 Hinge side A16

8.2.1.1 Standard

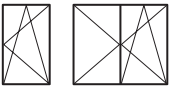
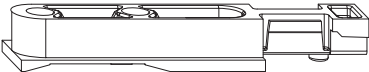


					Nº
12/18-9	Standard	max. 150 kg	Roto Sil	Left	2007187
		max. 150 kg	Roto Sil	Right	2007188
	Threshold	max. 150 kg	Roto Sil	Left	2007218
		max. 150 kg	Roto Sil	Right	2007224
12/18-13	Standard	max. 150 kg	Roto Sil	Left	2007199
		max. 150 kg	Roto Sil	Right	2007200
	Threshold	max. 150 kg	Roto Sil	Left	2007225
		max. 150 kg	Roto Sil	Right	2007226
12/20-9	Standard	max. 150 kg	Roto Sil	Left	2007201
		max. 150 kg	Roto Sil	Right	2007202
	Threshold	max. 150 kg	Roto Sil	Left	2007227
		max. 150 kg	Roto Sil	Right	2007228
12/20-13	Standard	max. 150 kg	Roto Sil	Left	2007203
		max. 150 kg	Roto Sil	Right	2007204
	Threshold	max. 150 kg	Roto Sil	Left	2007220
		max. 150 kg	Roto Sil	Right	2007221

For compatible pivot rests, see → *from page 262*.

For compatible cover caps, see → *from page 265*.

8.2.1.2 Rebate corner hinge extension

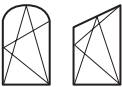
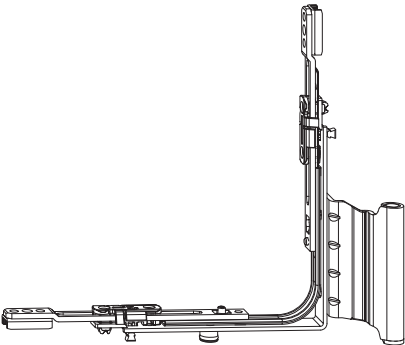


	Nº
Extension	2026631

Can be used on sash profiles with corner connectors which do not permit the corner hinge, standard, to be fixed using screws.



8.2.1.3 Arched windows / pitched windows



					Nº
12/18-9	Standard	max. 80 kg	Roto Sil	Left	2007207
		max. 80 kg	Roto Sil	Right	2007208
	Threshold	max. 80 kg	Roto Sil	Left	2007239
		max. 80 kg	Roto Sil	Right	2007240
12/18-13	Standard	max. 80 kg	Roto Sil	Left	2007209
		max. 80 kg	Roto Sil	Right	2007210
	Threshold	max. 80 kg	Roto Sil	Left	2007241
		max. 80 kg	Roto Sil	Right	2007242
12/20-9	Standard	max. 80 kg	Roto Sil	Left	2007211
		max. 80 kg	Roto Sil	Right	2007212
	Threshold	max. 80 kg	Roto Sil	Left	2007243
		max. 80 kg	Roto Sil	Right	2007244
12/20-13	Standard	max. 80 kg	Roto Sil	Left	2007213
		max. 80 kg	Roto Sil	Right	2007214
	Threshold	max. 80 kg	Roto Sil	Left	2007245
		max. 80 kg	Roto Sil	Right	2007246

For compatible pivot rests, see → *from page 262*.

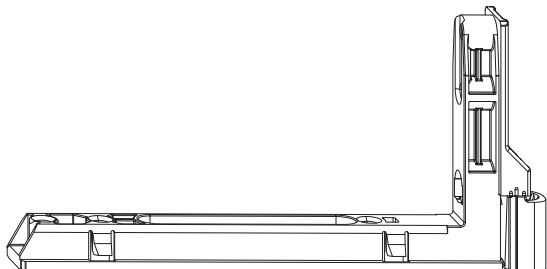
For compatible cover caps, see → *from page 265*.



8.3 Corner hinges

8.3.1 Hinge side Designo A16

8.3.1.1 Corner hinge



			Nº
5 screw holes	Roto Sil	Left	740073
5 screw holes	Roto Sil	Right	740072

Can also be used on sash profiles with corner connectors which do not permit the corner hinge to be fixed using screws.

In conjunction with short load transfer → *from page 264*

8.3.1.2 Corner hinge extension



		Nº
Corner hinge extension	For additional screw positions	740074

Corner hinge extension for an additional vertical screw position on sash profiles with corner connectors which do not permit the corner hinge to be fixed using screws. In conjunction with short load transfer → *from page 264*.

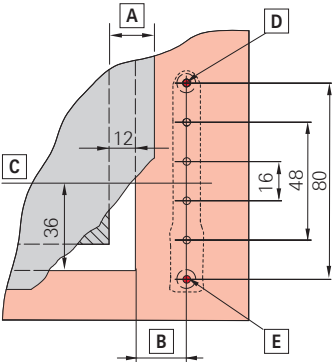


8.4 Pivot rests

8.4.1 Hinge side P / hinge side A16

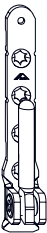
Installation and description

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
[C]	Pivot rest centre	-
[D]	Pivot rest P 3/130, drill hole Ø 3 mm, 3 mm deep Pivot rest P 6/130, drill hole Ø 6 mm, 3 mm deep Pivot rest P 6/150, top drill hole Ø 6 mm, 3 mm deep	-
[E]	Pivot rest P 3/130, drill hole Ø 3 mm, 3 mm deep Pivot rest P 6/130, drill hole Ø 6 mm, 9 mm deep Pivot rest P 6/150, drill hole Ø 6 mm, 19 mm deep	-

8.4.1.1 P 3/130 | P 6/130



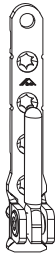
							Nº
P 3/130	max. 130 kg	Laterally adjustable	Y	2 x Ø 3 mm	Roto Sil		787207
P 6/130	max. 130 kg	Laterally adjustable	Y	2 x Ø 6 mm	Roto Sil		787208

For compatible corner hinges, see → *from page 262*.

For compatible cover caps, see → *from page 266*.



8.4.1.2 P 6/150



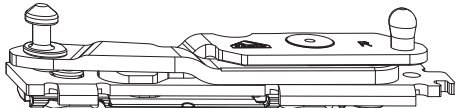
						Nº
P 6/150	max. 150 kg	Laterally adjustable	Y	2 x Ø 6 mm	Roto Sil	787209

For compatible corner hinges, see → *from page 262*.

For compatible cover caps, see → *from page 266*.

8.4.2 Hinge side Designo A16

8.4.2.1 Pivot rest



					Nº
9 10 13	No. 1	V.02	Roto Sil	Left	628300
			Roto Sil	Right	628299
			Roto Sil	Left	819180
			Roto Sil	Right	819181
9 10 13	No. 4	V.01	Roto Sil	Left	624513
			Roto Sil	Right	624512
			Roto Sil	Left	624523
			Roto Sil	Right	624522



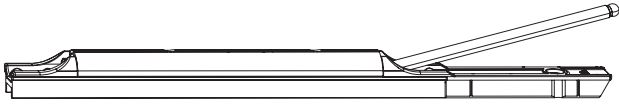
INFO

Hinge sides A16 and Designo A16 are designed for HA 9 mm and HA 13 mm. Before using different hardware axes, a separate profile assessment is recommended.

Compatible corner hinge → *from page 261*

8.5 Load transfer

8.5.1 Load transfer, standard



			Nº
Sash component	max. 150 kg	Roto Sil	567972

8.5.2 Short load transfer

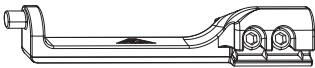


				Nº
Short load transfer	Sash	max. 150 kg	Roto Sil	740125

Corner hinge extension → *from page 261.*

The corner hinge extension can be used as a locating aid for the short load transfer.

8.5.3 Frame bearing load transfer



			Nº
Aliplast Benelux Sapa Avantis AluK b-Quick Deceuninck Decalu van Beveren Optima	V.01	Left	625015
		Right	624924
–	V.02	Left	623851
		Right	623850

For compatible load transfer, see → *from page 264.*



8.6 Cover caps

8.6.1 Hinge side A16

8.6.1.1 Corner hinge – standard



				Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	Left	2007249
	R01.1	Natural silver	Right	2007250
	R01.3	Titanium	Left	2007251
	R01.3	Titanium	Right	2007252
	R03.1	Brass matt	Left	2007253
	R03.1	Brass matt	Right	2007254
	R03.2	Brass, polished	Left	2007255
	R03.2	Brass, polished	Right	2007256
	R04.1	Grey brown	Left	2007257
	R04.1	Grey brown	Right	2007258
	R04.4	Black brown	Left	2007259
	R04.4	Black brown	Right	2007260
	R05.3	Medium bronze	Left	2007261
	R05.3	Medium bronze	Right	2007262
	R06.2	Jet black	Left	2007263
	R06.2	Jet black	Right	2007264
	R07.2	Traffic white	Left	2007265
	R07.2	Traffic white	Right	2007266
	SF	Special colour	Left	2007267
	SF	Special colour	Right	2007268

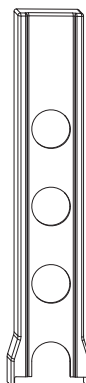


8.6.1.2 Pivot rest – standard



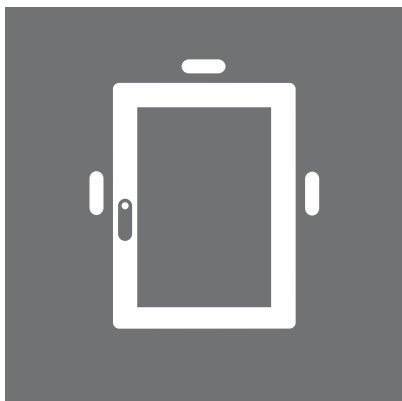
			Nº
P 3/130 P 6/130 P 6/150	R01.1	Natural silver	788419
	R01.2	Nickel silver	795973
	R01.3	Titanium	788420
	R03.1	Brass matt	788421
	R03.2	Brass, polished	795978
	R04.1	Grey brown	788422
	R04.3	Olive brown	795983
	R04.4	Black brown	788423
	R05.3	Medium bronze	788424
	R05.5	Bronze	788425
	R06.2	Jet black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

8.6.1.3 Pivot rest – link



			Nº
12/18-9 12/18-13 12/20-9 12/20-13	R01.1	Natural silver	2010140
	R01.3	Titanium	2010141
	R03.1	Brass matt	2010142
	R03.2	Brass, polished	2010143
	R04.1	Grey brown	2010154
	R04.4	Black brown	2010155
	R05.3	Medium bronze	2010156
	R06.2	Jet black	2010157
	R07.2	Traffic white	2010158
	SF	Special colour	2010169









Tilt strikers

Standard	272
TiltFirst (TF)	274

Strikers

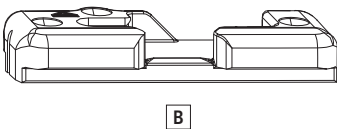
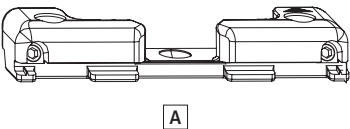
Standard	275
Security	276
Striker for double-sashed window	277

9 Locking components

9.1 Tilt strikers

9.1.1 Standard

9.1.1.1 Zinc



Assignment			Meaning				
[A]			Clampable				
[B]			Screw-on				

							Nº		
Aliplast Benelux Elvial 4600 AluK b-Quick Deceuninck Decalu HansenMillenium	9	Screw-on	–	–	Left	Roto Sil	260523		
			–	–	Right	Roto Sil	260524		
			–	–	Left	Roto Sil	260479		
			–	–	Right	Roto Sil	260480		
			–	with packer	Left	Roto Sil	261943		
			–	with packer	Right	Roto Sil	262927		
			–	–	Left	Roto Sil	451092		
			–	–	Right	Roto Sil	451007		
			–	–	Left	Roto Sil	284235		
			–	–	Right	Roto Sil	284236		
AluK 67FR Reynaers IndusLine 68	13	Screw-on	V.02	–	–	Roto Sil	860966		
Aliplast Benelux Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu AluK 58BW			V.01	–	–	Roto Sil	627150		
			V.02	–	–	Roto Sil	629914		
			V.01	–	Left	Roto Sil	339432		
			V.01	–	Right	Roto Sil	339433		
			V.01	–	–	Roto Sil	494938		
heroyal W 72 Kawneer RT heroyal W 65			10	Clampable	V.02	–	–	Roto Sil	860966
V.01					–	Left	Roto Sil	339432	
V.01					–	Right	Roto Sil	339433	
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima			13	Clampable	V.01	–	–	Roto Sil	494938

Do not use clampable tilt strikers for any security levels.

Packer for 261943 and 262927



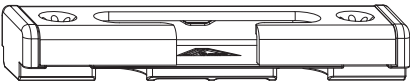
		Nº
Exlabesa RS-65 Sapa Avantis	13	599215



INFO
Other versions are available upon request.

Compatible packers → *from page 314.*

9.1.1.2 Steel



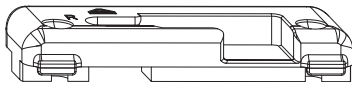
						Nº
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 4150 HV AluK b-Quick Deceuninck Decalu	9	Screw-on	–	–	Roto Sil	2003961
heroal W 72 heroal W 65			–	–	Roto Sil	856826
HansenMillenium			–	–	Roto Sil	856827
Aliplast Star	10		–	–	Roto Sil	2031830



INFO
Other versions are available upon request.



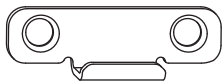
9.1.2 TiltFirst (TF)



						Nº
Aliplast Benelux Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu	9	Screw-on	–	Left	Roto Sil	473190
			–	Right	Roto Sil	473189
			–	Left	Roto Sil	737709
			–	Right	Roto Sil	737710
			–	Left	Roto Sil	838045
			–	Right	Roto Sil	838046
			–	Left	Roto Sil	287915
			–	Right	Roto Sil	287916
			–	Left	Roto Sil	774799
			–	Right	Roto Sil	774800
heroal W 72 Kawneer RT heroal W 65 AluK 58BW HansenMillenium Aluminco 570 Dynamic Sapa Avantis van Beveren Optima	13					



INFO
Other versions are available upon request.



				Nº
Aliplast Benelux AluK b-Quick Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Deceuninck Decalu HansenMillenium	TiltFirst adapter for security strikers (steel)	9	Roto Sil	456941

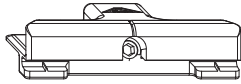


INFO
Only in conjunction with steel SEC striker, mat. no. 2009237 and 2009238.



9.2 Strikers

9.2.1 Standard



					Nº
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Sapa 4150 HV AluK b-Quick Deceuninck Decalu	9	Screw-on	–	Roto Sil	346971
heroal W 72 Kawneer RT			–	Roto Sil	891331
heroal W 72 Kawneer RT heroal W 65			–	Roto Sil	284233
AluK 58BW			–	Roto Sil	260363
AluK 67FR Reynaers IndusLine 68			–	Roto Sil	860949
HansenMillenium			–	Roto Sil	260360
Exlabesa RS-65	13		–	Roto Sil	491060
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima			–	Roto Sil	451008
Aliplast Benelux Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu AluK 58BW	9	Clampable	V.01	Roto Sil	627148
heroal W 72 Kawneer RT heroal W 65			V.02	Roto Sil	629913
Aliplast Star	10		V.01	Roto Sil	339434
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima	13		V.01	Roto Sil	494937

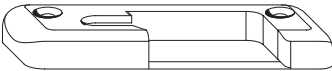


INFO

Other versions are available upon request.

9.2.2 Security

9.2.2.1 Zinc



A



B

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

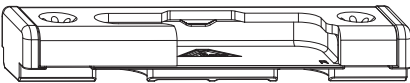
						Nº
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Elvial 4600 Sapa 4150 HV AluK b-Quick Deceuninck Decalu	9	Screw-on	–	–	Roto Sil	346972
heroal W 72 Kawneer RT heroal W 65			–	–	Roto Sil	284234
HansenMillenium			–	Left	Roto Sil	260382
			–	Right	Roto Sil	260383
Aluminco 570 Dynamic	13		–	–	Roto Sil	451009
Exlabesa RS-65			–	Left	Roto Sil	261935
Sapa Avantis			–	Right	Roto Sil	262930
van Beveren Optima			–			



INFO

Other versions are available upon request.

9.2.2.2 Steel



						Nº		
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 4150 HV AluK b-Quick Deceuninck Decalu	9	Screw-on	V.01	Left	Roto Sil	2003963		
		Screw-on	V.01	Right	Roto Sil	2003962		
		AluK 58BW		Screw-on	V.01	Left	Roto Sil	856764
				Screw-on	V.01	Right	Roto Sil	856765
		heroal W 72 Kawneer RT heroal W 65	Screw-on	V.02	–	Roto Sil	856759	
		HansenMillenium		Screw-on	–	Left	Roto Sil	856982
				Screw-on	–	Right	Roto Sil	856981



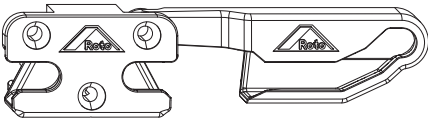
						Nº
Aliplast Star	10	Screw-on	–	Left	Roto Sil	2031829
		Screw-on	–	Right	Roto Sil	2031828



INFO

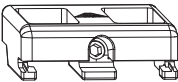
Other versions are available upon request.

9.2.2.3 TiltSafe



				Nº
Screw-on	V.01	Roto Sil	Left	837088
		Roto Sil	Right	837089
	V.02	Roto Sil	Left	837155
		Roto Sil	Right	837156

9.2.3 Striker for double-sashed window



					Nº
Aliplast Benelux Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu	9	Clampable	V.01	Roto Sil	627149
	13		–	Roto Sil	494940
	9 10		V.01	Roto Sil	339438



Locking components

Strikers

Striker for double-sashed window

					Nº
Aliplast Benelux AluK b-Quick Deceuninck Decalu	9	Screw-on	–	Roto Sil	346976
AluK 67FR	13		V.02	Roto Sil	860965



INFO

Other versions are available upon request.











Additional stay arms

Standard	284
TiltFirst (TF)	285
Arched window	285

Tilt stays

Frame components	286
Sash components	286
Sets	287
Mounting screw	287

Arrestable brake stays

Frame components	289
Sash components	289

Sash lifter

See page	290
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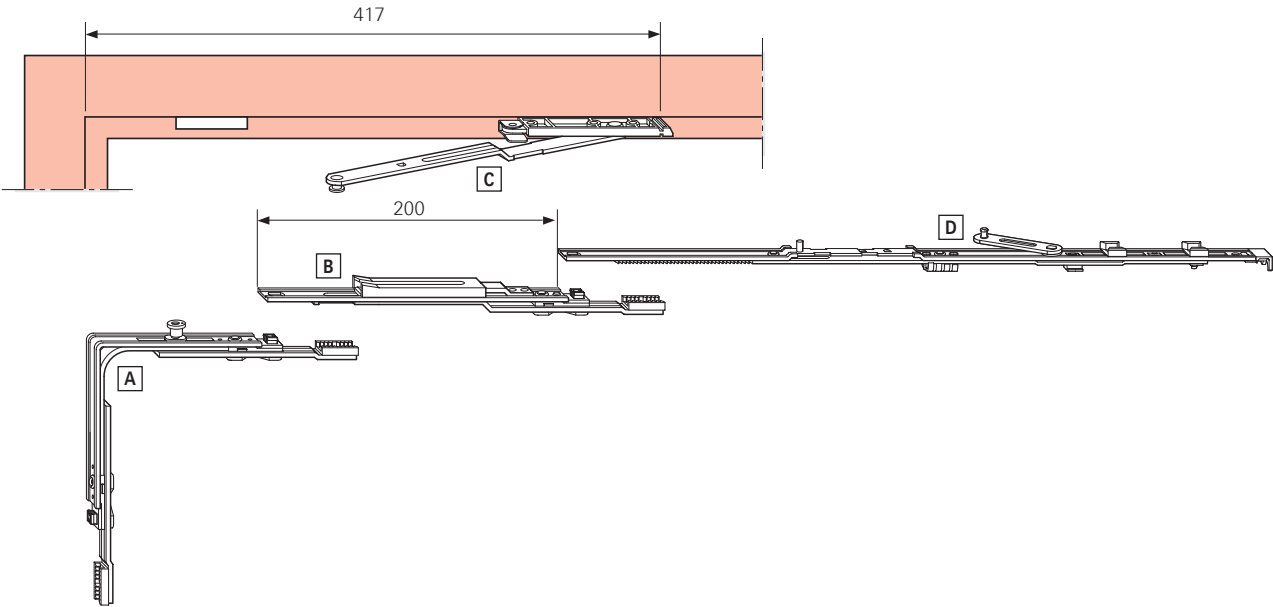
Restrictor and cleaning stays

Sash components	291
Frame components	291
Packers	291

10 Scissor stays

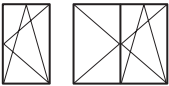
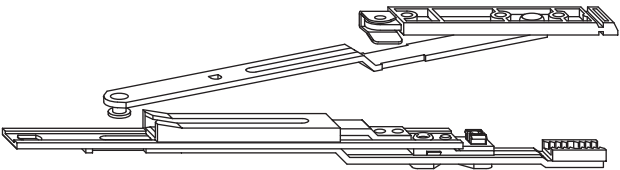
10.1 Additional stay arms

Installation and description



Assignment	Meaning
[A]	Corner drive
[B]	Additional stay arm, sash component
[C]	Additional stay arm, frame component
[D]	Stay guide

10.1.1 Standard

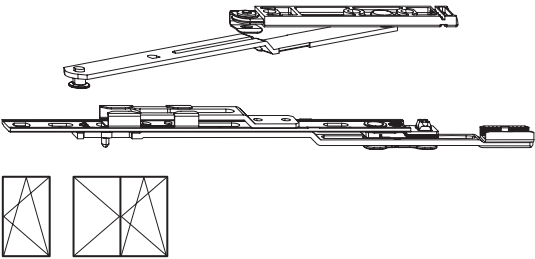


			Nº
Frame and sash component	200	Roto Sil	255237

For the compatible packer, see → from page 314.



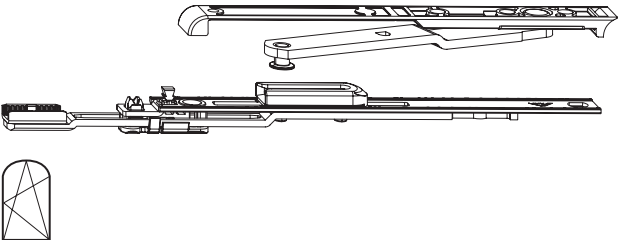
10.1.2 TiltFirst (TF)



			Nº
Frame and sash component	200	Roto Sil	292022

For the compatible packer, see → from page 314.

10.1.3 Arched window



		Nº
Frame and sash component	Roto Sil	245764



10.2 Tilt stays

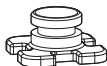
10.2.1 Frame components



		Nº
Frame component	Roto Sil	451477

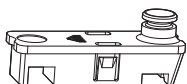
For the compatible packer, see → *from page 314*→ *from page 286*.

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 287*.



		Nº
Sash component for hardware groove	Roto Sil	451431



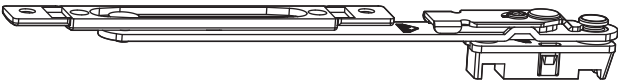


10.2.3 Sets



		Nº
Floating-mullion installation	Roto Sil	482823

For the mounting screw required for floating-mullion installation, see → from page 287.
For the compatible packer, see → from page 314.



		Nº
Hardware groove	Roto Sil	494389

10.2.4 Mounting screw

	Nº
Screw for installation on corner drive	567995



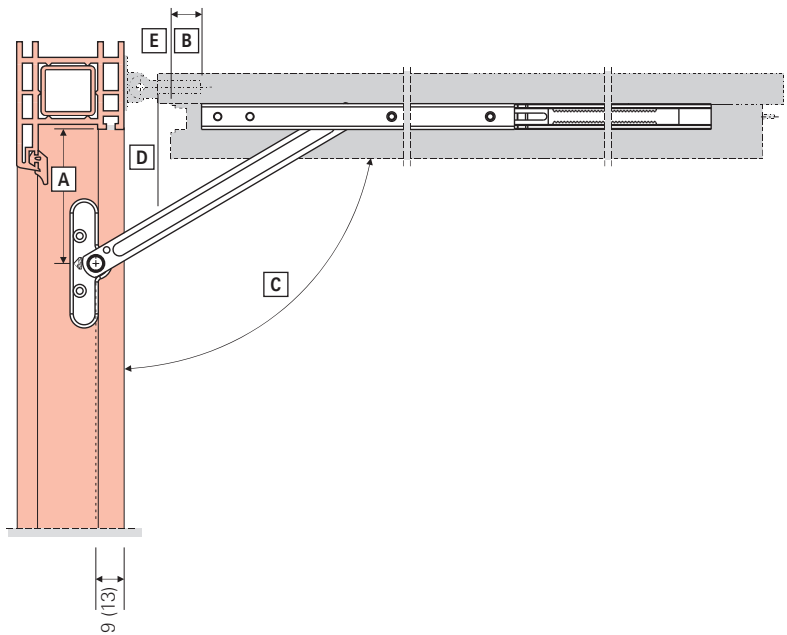
10.3 Arrestable brake stays



INFO Comfort component

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

Installation and description



Assignment	Meaning
[A]	Frame dimension
[B]	Sash dimension
[C]	90° opening angle
[D]	Overlap edge
[E]	Sash rebate edge

Hinge side P / T / K / E5 / 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 289*.

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

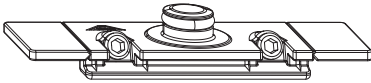
For compatible sash components, see → *from page 289*.



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
Aliplast Benelux Aliplast Star Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis AluK b-Quick Deceuninck Decalu van Beveren Optima	V.01	Clampable	Roto Sil	623852
heroal W 72 Kawneer RT heroal W 65	V.02	Clampable	Roto Sil	625020
AluK 58BW HansenMillenium	–	Screw-on	Roto Sil	337754

Packer

			Nº
Packer	AluK 58BW	Roto Sil	838048

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



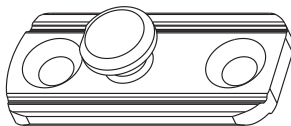


10.5 Restrictor and cleaning stays

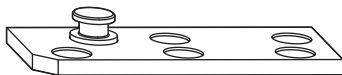
10.5.1 Sash components



			Nº
Sash bearing for hardware groove	Roto Sil	–	348277

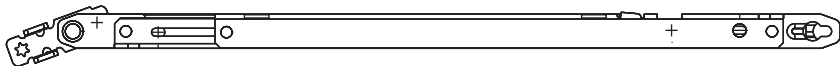


			Nº
Sash bearing for floating-mullion installation	Roto Sil	–	632566



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

10.5.2 Frame components



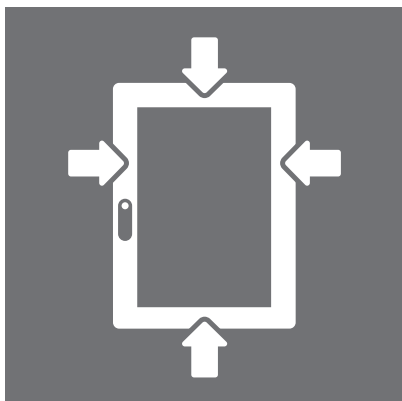
			Nº
Frame component	361 – 630	Roto Sil	347131
	631 – 1200	Roto Sil	347132

For the compatible packer, see → *from page 291*.

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





**Bullet catches**

Standard	296
----------	-----

Night vents

Single-stage	298
--------------	-----

Lifting mishandling devices

Frame component	299
Floating mullion	300
Sash components	300

Mishandling devices

See page	301
----------	-----

Turn restrictors

Hinge side A16	302
Hinge side Designo A16	308

Security components

Drilling protection – backset 8 and 15 mm	309
Drilling protection – backset 25 to 50 mm	309
Floating mullion	309
Sash components	310

Connection elements

Couplings	311
Fastening plates	311
Connecting links	311

Run-up blocks

See page	312
----------	-----

Packers

See page	314
----------	-----

Centre closers

Hinge side A16	315
Hinge side Designo A16	316

Other

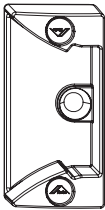
Travel restrictor	318
Cover faceplate	318
End piece for pitched stay guide	318
Anti-slam device	318
Info clips	319
Water slot caps	320

11 Accessories

11.1 Bullet catches

11.1.1 Standard

11.1.1.1 Bullet catch



				Nº
Aliplast Benelux AluK b-Quick Deceuninck Decalu	9	Clampable	Roto Sil	897075
HansenMillenium		Screw-on	Roto Sil	788365
Aluminco 570 Dynamic Sapa Avantis van Beveren Optima	13		Roto Sil	839393



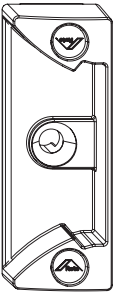
INFO

Other versions are available upon request.

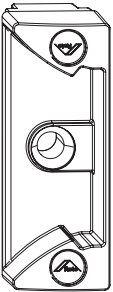




11.1.1.2 Floating mullion

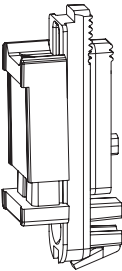


			Nº
Bullet catch for lever-operated espagnolette	Screw-on	Roto Sil	788378



		Nº
Bullet catch for opposite hardware groove	Roto Sil	788507

11.1.1.3 Sash components



		Nº
Bullet catch sash component	Roto Sil	788363



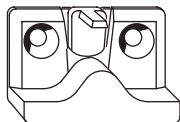
	Nº
Bullet-catch sash component support (upper / lower horizontal hardware groove)	794997



11.2 Night vents

11.2.1 Single-stage

11.2.1.1 Single-stepped



							Nº
Aliplast Benelux Alumil Ecoflex Aluprof MB-60 Aluprof MB-70 Elvial Iconic W77 Al2 Elvial 4600 AluK b-Quick Deceuninck Decalu	Screw-on	9	–	–	–	Roto Sil	259255
heroyal W 72 Kawneer RT heroyal W 65			–	–	–	Roto Sil	348365
HansenMillenium			–	–	–	Roto Sil	256633
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis		13	–	with packer	Left	Roto Sil	261945
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima			–	with packer	Right	Roto Sil	262932
Aliplast Benelux Aliplast Star Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu	Clampable	9 10	V.01	–	–	Roto Sil	339437



INFO

Only for use in conjunction with P or V cam.



INFO

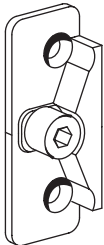
Other versions are available upon request.

Compatible packers → *from page 314.*



11.3 Lifting mishandling devices

11.3.1 Frame component



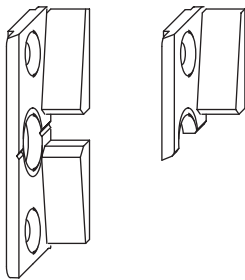
					Nº
Aliplast Benelux Elvial 4600 AluK b-Quick Deceuninck Decalu	Screw-on	9	–	Roto Sil	260561
heroal W 72 Kawneer RT heroal W 65			–	Roto Sil	284237
AluK 58BW			V.01	Roto Sil	260543
AluK 67FR Reynaers IndusLine 68			V.02	Roto Sil	860967
HansenMillenium			–	Roto Sil	260540
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima		13	–	Roto Sil	451006
Aliplast Benelux Aliplast Star Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu AluK 58BW	Clampable	9 10	V.01	Roto Sil	339436
heroal W 72 Kawneer RT heroal W 65		9	V.02	Roto Sil	629925
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima		13	V.01	Roto Sil	494942



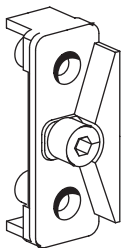
INFO

Other versions are available upon request.

11.3.2 Floating mullion

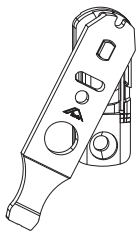


			Nº
Lifting mishandling device for lever-operated espagnolette	–	Screw-on	257600



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

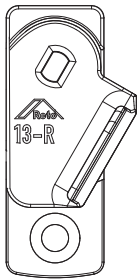
11.3.3 Sash components



		Nº
Sash component for lifting mishandling device	Roto Sil	795927



11.4 Mishandling devices



			Nº
Sash	9	Left	2030447
		Right	2030407
	13	Left	2030454
		Right	2030448



11.5 Turn restrictors

11.5.1 Hinge side A16

11.5.1.1 Turn restrictor 191

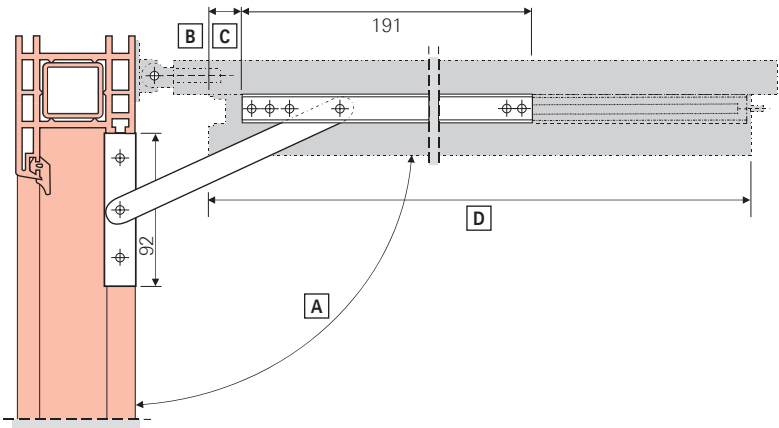
i

INFO

Comfort component

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

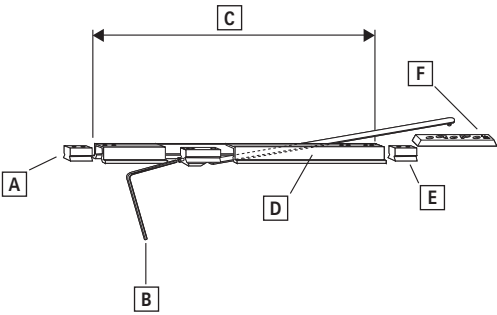
Installation and description



Assignment	Meaning
[A]	Opening angle 90° ± 3°
[B]	Sash rebate edge
[C]	Installation dimensions Sash: 37 mm
[D]	Sash rebate width (SRW) 240 ^[2] – 660 mm



[2] Minimum dimension when using the T&T corner drive: 430 mm



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



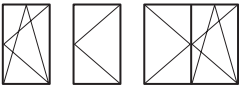
INFO

Turn restrictor can only be used with surface-mounted hinge sides.

For compatible corner hinges, see → *from page 259*.

For compatible pivot rests, see → *from page 262*.

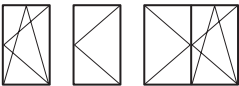
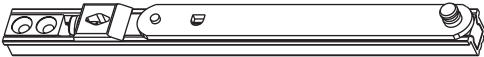
11.5.1.1.1 Frame components



			Nº
Bearing	Screw-on	Roto Sil	264625

For the compatible packer, see → *from page 314*.

11.5.1.1.2 Sash components



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



INFO

Selectable final position and continuously adjustable brake.



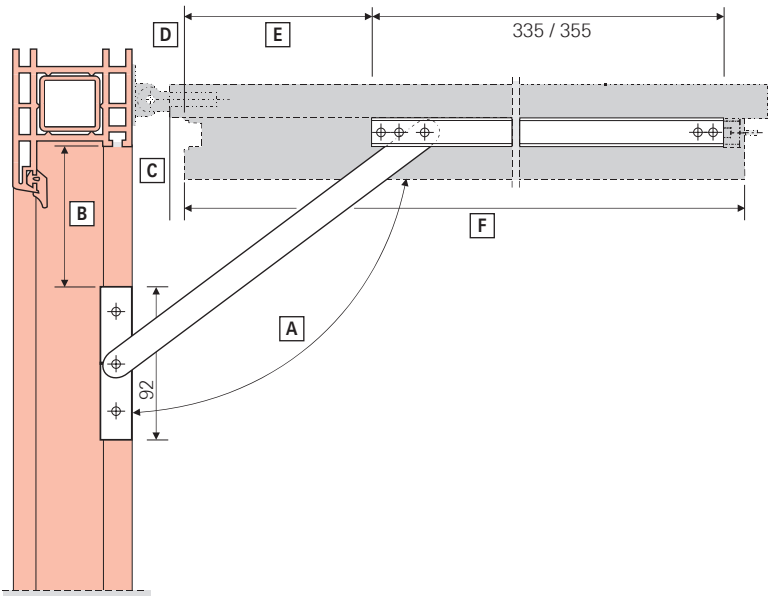
11.5.1.2 Turn restrictor 335 / 355



INFO
Comfort component

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

Installation and description



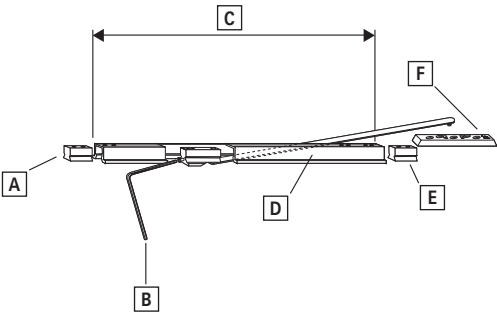
Assignment	Meaning	
[A]	Opening angle 90° ± 3°	Opening angle at stop number 1: 65° / 2: 80° / 3: 90°
[B]	Installation dimension Frame: 100 mm	
[C]	Overlap edge	
[D]	Sash rebate edge	
[E]	Installation dimension Sash: 105 mm (turn restrictor 355) Sash: 125 mm (turn restrictor 335)	
[F]	Sash rebate width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



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.

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



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



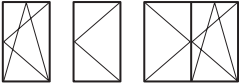
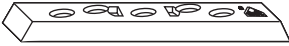
INFO

Turn restrictor can only be used with surface-mounted hinge sides.

For compatible corner hinges, see → *from page 259*.

For compatible pivot rests, see → *from page 262*.

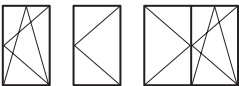
11.5.1.2.1 Frame components



			Nº
Bearing	Screw-on	Roto Sil	264625

For the compatible packer, see .

11.5.1.2.2 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.



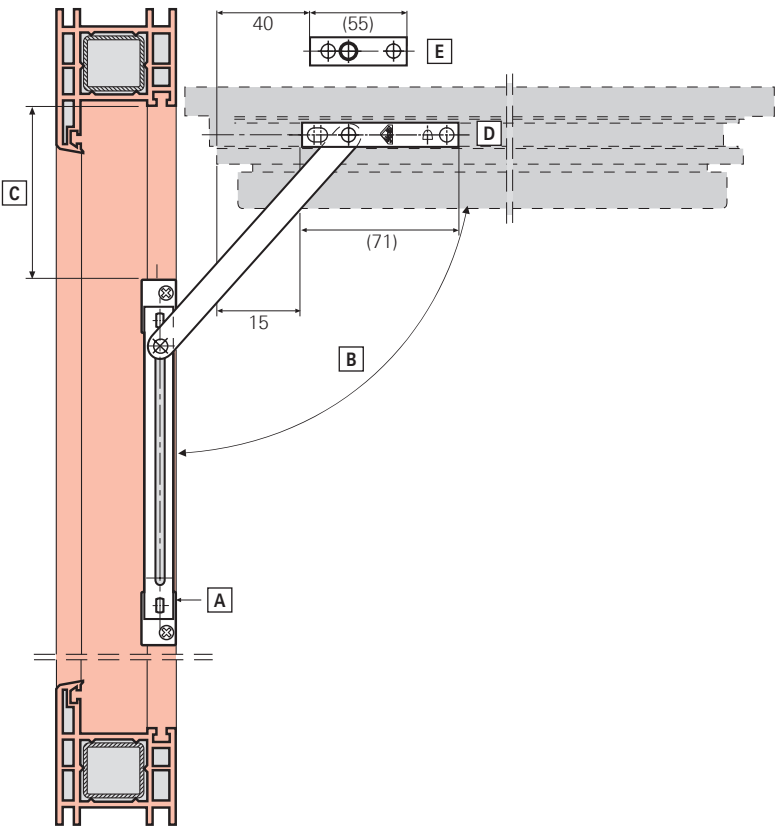
11.5.1.3 Turn restrictor A



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)	–



INFO
Turn restrictor can only be used with surface-mounted hinge sides.

11.5.1.3.1 Frame components





INFO

Versions available upon request.

11.5.1.3.2 Sash components



		Nº
for rebate corner hinge extension	Roto Sil	365922



11.5.2 Hinge side Designo A16

11.5.2.1 Turn restrictor 198



INFO

Turn restrictor can only be used with concealed hinge sides.

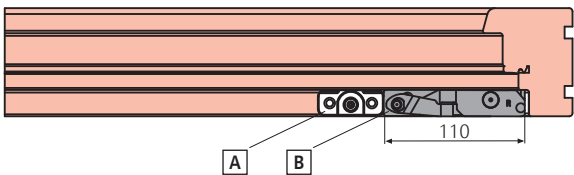


INFO

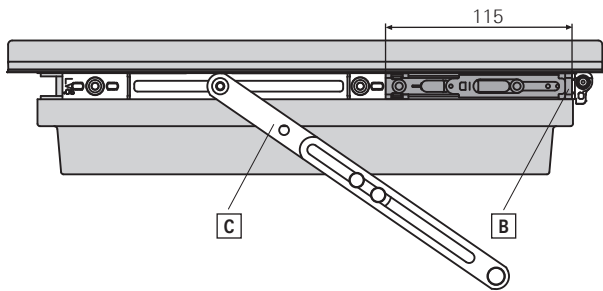
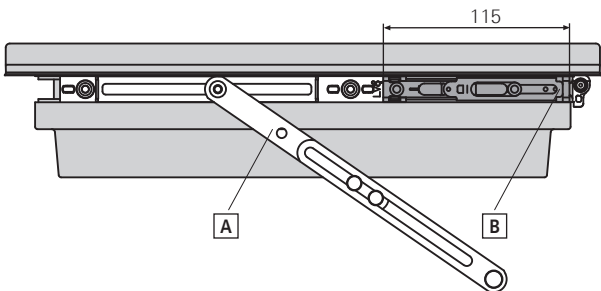
Comfort component

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)

11.5.2.1.1 Frame components

For compatible frame components, see → *from page 289*.

11.5.2.1.2 Sash components

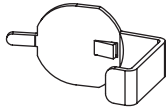


		Nº
Designo hinge side	Roto Sil	485591



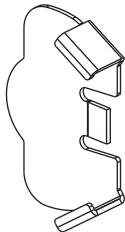
11.6 Security components

11.6.1 Drilling protection – backset 8 and 15 mm



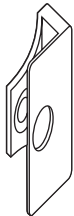
	Nº
Drilling protection	797819

11.6.2 Drilling protection – backset 25 to 50 mm

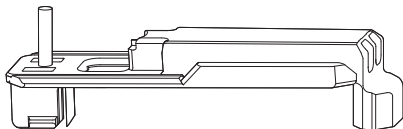


	Nº
Drilling protection	788334

11.6.3 Floating mullion



		Nº
Retainer clasp for lever-operated espagnolette, standard	Roto Sil	314203



	Nº
Retaining element for floating-mullion sash	552392

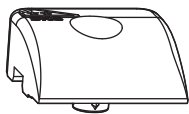


INFO

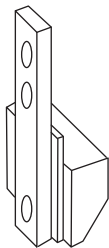
Can only be used in combination with lever-operated espagnolette, standard and a rebate depth of 30.



11.6.4 Sash components



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



		Nº
Additional security component (centre lock)		609838





11.7 Connection elements

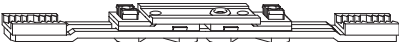
11.7.1 Couplings



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

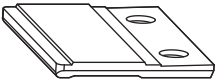


						Nº
Coupling 450	450	200	1	V	Roto Sil	787089

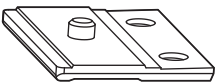


		Nº
Triangular window coupling	Roto Sil	264606

11.7.2 Fastening plates



		Nº
Fastening plate without cam	Roto Sil	487264



		Nº
Fastening plate with cam	Roto Sil	255211



INFO

Can only be used in combination with lever-operated espagnolette, VT 2003815 and T&T espagnolette with centred / variable handle height 259717.

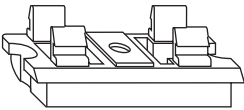
11.7.3 Connecting links



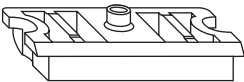
		Nº
Connecting link	Roto Sil	350401



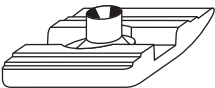
11.8 Run-up blocks



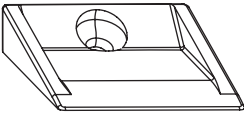
			Nº
Run-up block for groove mounting	Sash	12	770686



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

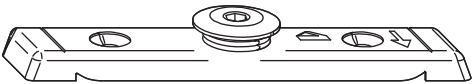


				Nº
Rebate run-up block	Sash	12	18	563829
		12	21	350402
		13	21	350403



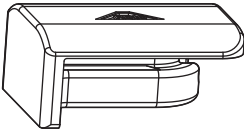
		Nº
Run-up plate for adjustable rebate run-up block	Sash	771035

For compatible frame components, see below.



		Nº
Rebate run-up block	Screw-on	246377

For the compatible packer → *from page 314*.



			Nº
Rebate run-up block	Frame	Insertable	609211



INFO

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



11.9 Packers



			Nº
Aliplast Benelux Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial Iconic W77 Al2 Elvial 4600 Ponzio PE78 Sapa 70FPI Sapa 4150 HV AluK b-Quick Deceuninck Decalu	Frame	9	348148
heroal W 72 Kawneer RT AluK 67FR heroal W 65			294541
AluK 58BW			838047
Aluminco 570 Dynamic Exlabesa RS-65 Sapa Avantis van Beveren Optima		13	491064
Exlabesa RS-65 Sapa Avantis			599215



INFO

Other versions are available upon request.

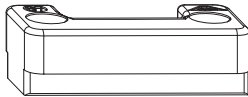




11.10 Centre closers

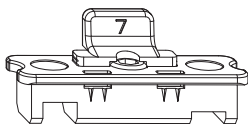
11.10.1 Hinge side A16

11.10.1.1 Frame component



				Nº
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial 4600 Ponzio PE78 Sapa 4150 HV AluK b-Quick Deceuninck Decalu		9	Screw-on	486009
heroyal W 72 Kawneer RT heroyal W 65			Screw-on	284238
Aluminco 570 Dynamic		13	Screw-on	494943

11.10.1.2 Sash component

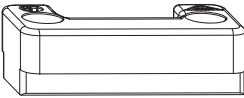


				Nº
Aluminco 450 Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Aluron AS 75 Elvial 4600 Ponzio PE78 Sapa 4150 HV Aluminco 570 Dynamic		9 13	Screw-on	331483
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Ponzio PE78 heroyal W 72 Kawneer RT AluK b-Quick Deceuninck Decalu heroyal W 65		9	Screw-on	333121



11.10.2 Hinge side Designo A16

11.10.2.1 Frame component



			Nº
Aliplast Star Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Elvial 4600 Sapa 70FPI AluK b-Quick	9 10	Screw-on	632885
AluK 67FR Reynaers IndusLine 68	9		860968
Kawneer RT heroal W 65			502324
Aliplast Benelux Deceuninck Decalu			814621
Aluminco 570 Dynamic Sapa Avantis van Beveren Optima	13		632824



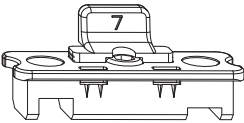
INFO

Other versions are available upon request.





11.10.2.2 Sash component



			Nº
Aliplast Benelux Aluprof MB-60 Aluprof MB-70 Aluprof MB-86 Ponzio PE78 heroal W 72 Kawneer RT AluK b-Quick Deceuninck Decalu heroal W 65	9	Screw-on	333121
AluK 67FR Reynaers IndusLine 68			860968
Aliplast Benelux Aliplast Star Alumil Ecoflex Aluminco 450 Brisa Aluminios Sistema NT 18/9 Elvial 4600 Sapa 70FPI Kawneer RT Aluminco 570 Dynamic Sapa Avantis AluK b-Quick Deceuninck Decalu AluK 67FR heroal W 65 Reynaers IndusLine 68 van Beveren Optima	9 13		450984



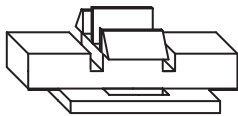
INFO

Other versions are available upon request.



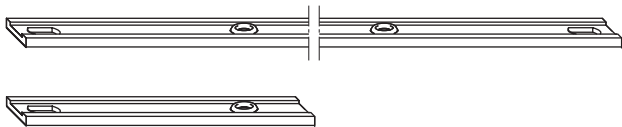
11.11 Other

11.11.1 Travel restrictor



			Nº
Travel restrictor			264603
Turn-Only / Tilt-Only espagnolette limited to 90° (not sh.)			565965
Can be deactivated for sash stay corner drive (not sh.)			640820

11.11.2 Cover faceplate



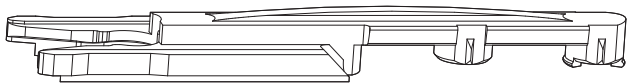
			Nº
2015	10 mounting holes	Roto Sil	287483
105	1 mounting hole	Roto Sil	296064

11.11.3 End piece for pitched stay guide



		Nº
Pitched stay guide end piece	Roto Sil	246734

11.11.4 Anti-slam device



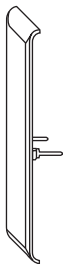
		Nº
To reduce the tilt depth from 140 to 80 mm on stay guide 250	Roto Sil	487206



INFO
Can only be used with stay guide Designo (HA 9 / HA 13) – basic security. See → *from page 223*.



11.11.5 Info clips



			Nº
Without print	R06.2	Jet black	230694
	R07.2	Traffic white	230696
Single-colour print	R06.2	Jet black	230692
	R07.2	Traffic white	230695
	SF	Special colour	230691
Two-colour print	R07.2	Traffic white	230697
	SF	Special colour	264629
SKG** info clip	R07.2	Traffic white	331459

For attaching information (e.g. company logo and similar) to the lock casing.



INFO

The info clip is compatible with all espagnolettes with 8 and 15 mm backset.

The following special colours are available:

Colour	RAL colour code
Green	6018
Yellow	1003
Red	2002
Blue	5015



INFO

Additional special colours are available upon request.

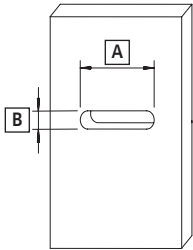
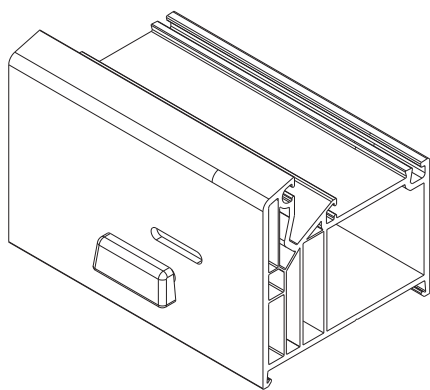


INFO

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

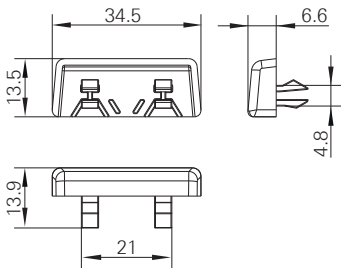
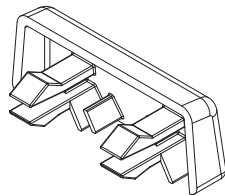
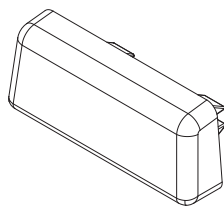


11.11.6 Water slot caps



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

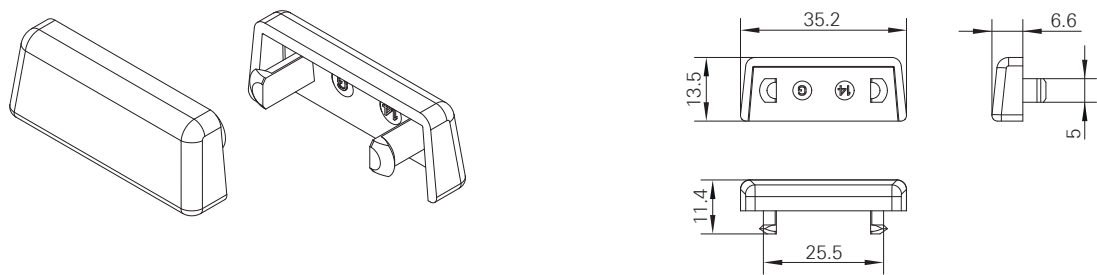
Can be clipped on horizontally, 25 mm



				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

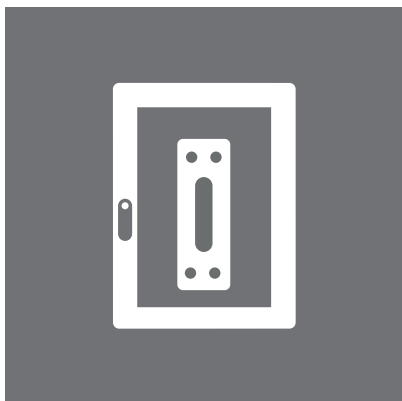


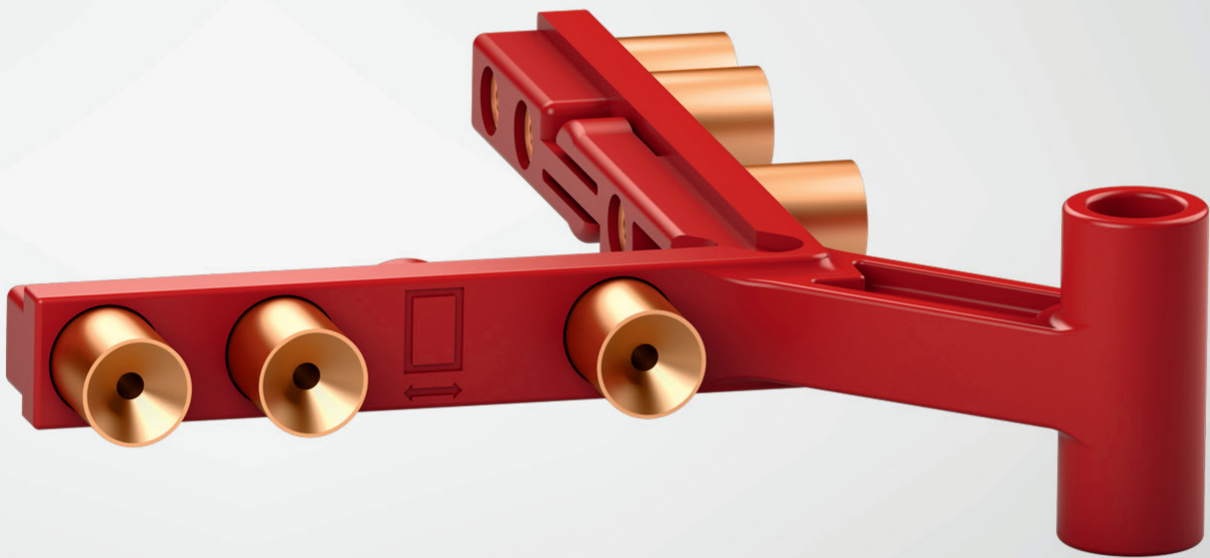
Can be clipped on at the side, 25 mm



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







**Drilling jigs**

Hinge side A16	326
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Positioning jigs

T&T espagnolette – fixed handle height	328
T&T espagnolette – centred / variable handle height	331
Turn-Only / Tilt-Only espagnolette – fixed handle height	334

Marking jig

See page	335
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Punches

Hydropneumatic punch – DUO	336
Pneumatic punch – PS 100	337
Hand lever punch – HS	337

Tools

Adjustment tools	338
Hex keys	338
Extractor handle	338
Double open-ended spanner	339

Roto NX / NT grease

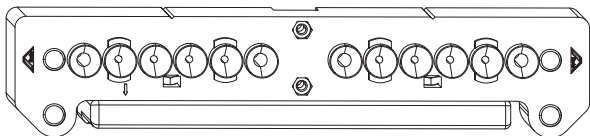
See page	340
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12 Jigs / tools

12.1 Drilling jigs

12.1.1 Hinge side A16

12.1.1.1 Stay bearing, standard, and pivot rest

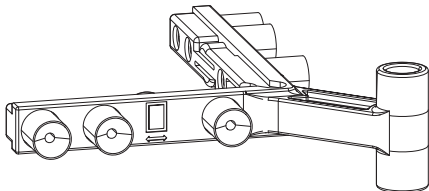


INFO

Drilling jig for systems 12-20/9 and 12-20/13.
Conversion to systems 12-18/9 and 12-1813 possible.

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

12.1.1.2 Rebate corner hinge

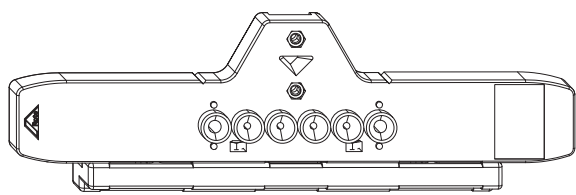


		Nº
Rebate corner hinge, standard		2026795





12.1.1.3 Stay bearing, adjustable



INFO

Drilling jig for systems 12-20/9 and 12-20/13.
Conversion to systems 12-18/9 and 12-18/13 possible.

		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

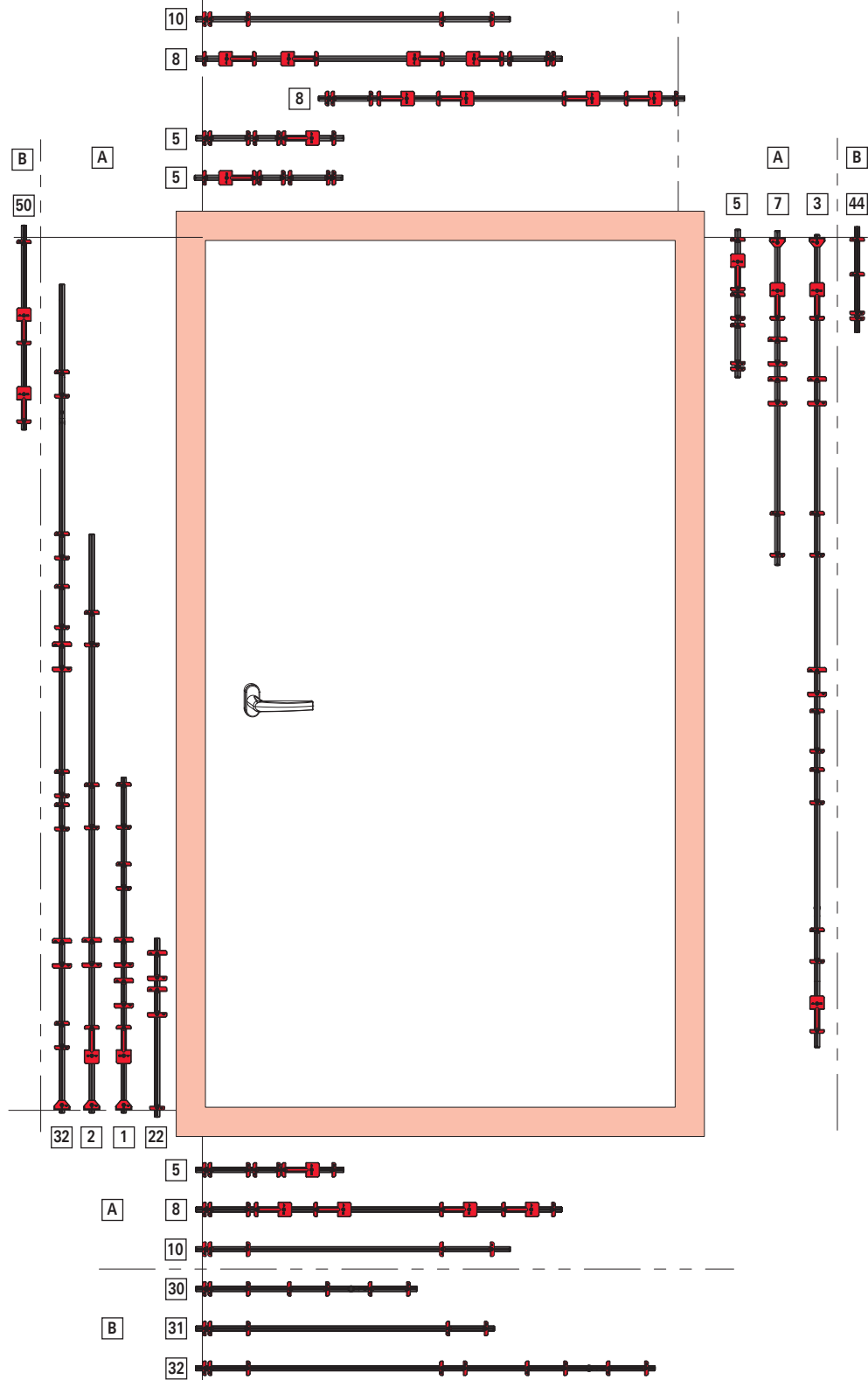
Installation (change of system)

		Nº
Stop for arched windows	12/18-9 12/18-13	2032487
Stop for Tilt-Only sashes	12/18-9 12/18-13	2032488



12.2 Positioning jigs

12.2.1 T&T espagnolette – fixed handle height

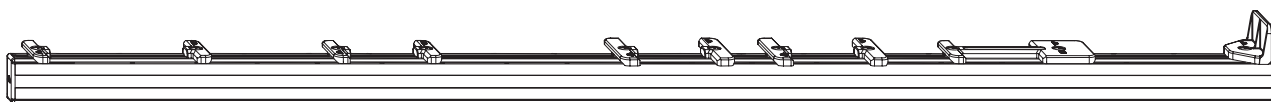


[A] BSec
[B] RC 1 N



Assignment	Position	Application range	T&T		T-O	Single jig
			BSec	RC 1 N	BSec	
[22]	Espagnolette side	SRH 511 – 600 mm	■	■	■	Standard → <i>from page 329</i>
[1]		SRH 801 – 1400 mm	■	■	■	
[2]		SRH 1401 – 1600 mm	■	■	■	
[32]		SRH 1601 – 2800 mm	■	■	■	
[50]		SRH 2601 – 2800 mm	■	–	■	
[5]	Hinge side	SRH 315 – 1100 mm	■	■	–	Tilt striker / corner drive → <i>from page 329</i>
[7]		SRH 1101 – 1800 mm	■	■	–	Standard
[3]		SRH 1801 – 2800 mm	■	■	■	
[44] [4]		SRH 320 – 2800 mm	–	■	–	
[5]	Horizontal at the top	SRW 315 – 1200	■	■	■	Tilt striker / corner drive → <i>from page 329</i>
[8]		BSec: SRW 1201 – 1600 mm	■	■	–	Centre lock → <i>from page 330</i>
		RC 1 N: SRW 1201 – 1400 mm				
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 330</i>
[5]	Horizontal at the bottom	SRW 315 – 1100 mm	■	–	■	Tilt striker / corner drive → <i>from page 329</i>
[8]		SRW 1101 – 1600 mm	■	–	–	Centre lock → <i>from page 330</i>
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 330</i>
[30]		SRW 400 – 800 mm	–	■	–	RC 1 N centre lock → <i>from page 330</i>
[31]		SRW 801 – 1000 mm	–	■	–	
[32]		SRW 1001 – 1400 mm	–	■	–	

12.2.1.1 Standard



Espagnolette side

			Nº
Standard	511 – 800	No. 22	2033841
Standard	801 – 1400	No. 1	290048
Standard	1401 – 1600	No. 2	290049
Standard	1601 – 2800	No. 32	798211
Standard	2401 – 2800	No. 55	808454

Hinge side

			Nº
Tilt striker / corner drive	320 – 2600	No. 44	640450
Standard	801 – 1600	No. 7	290074
Standard	1601 – 2600	No. 3	290050

12.2.1.2 Tilt striker / corner drive

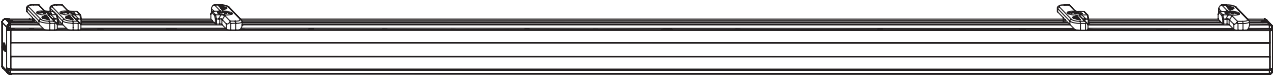


				Nº
Tilt striker / corner drive	315 – 1100	315 – 1200	Top Bottom Hinge side	No. 5 290072

[4] Is used for the top locking point only.

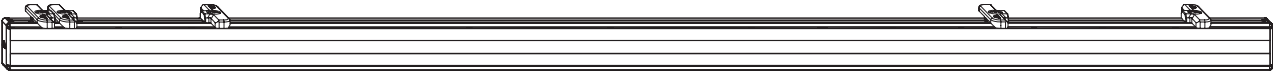


12.2.1.3 Centre lock



					Nº
Centre lock	Basic security RC 1 N	1201 – 1600	Top Bottom	No. 8	290075
	RC 1 N	400 – 800	Bottom	No. 30	268931
		801 – 1000	Bottom	No. 31	268932
		1001 – 1400	Bottom	No. 32	268933

12.2.1.4 Turn-Only sash

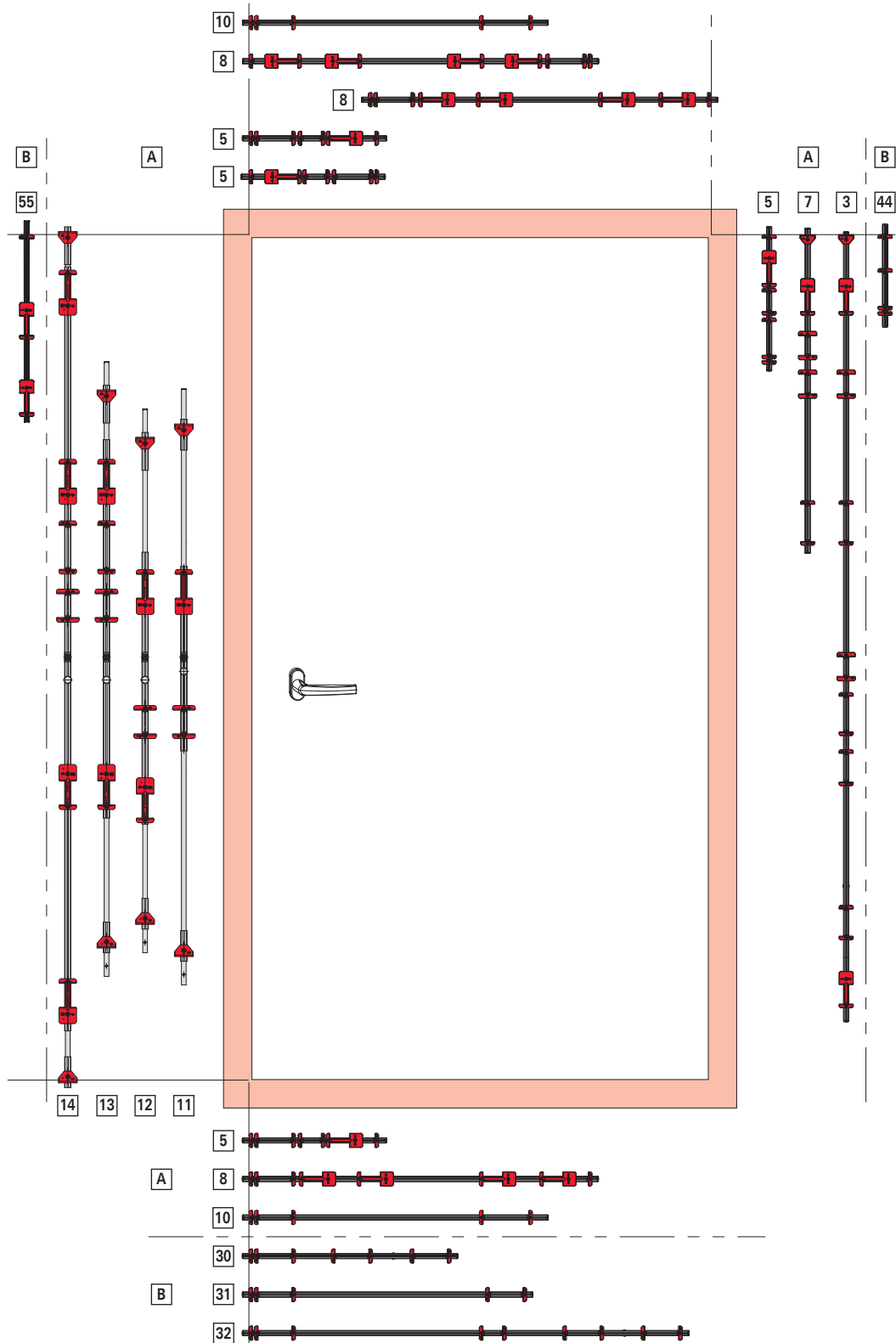


				Nº
Turn-Only sash	1101 – 1600	Top Bottom	No. 10	290081





12.2.2 T&T espagnolette – centred / variable handle height

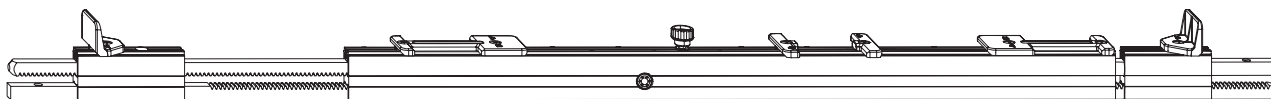


[A] BSec
[B] RC1 N



Assignment	Position	Application range	T&T		T-O	Single jig
			BSec	RC1 N	BSec	
[11]	Espagnolette side	SRH 621 – 1200 mm	■	■	■	Standard
[12]		SRH 1201 – 1600 mm	■	■	■	
[13]		SRH 1601 – 2000 mm	■	■	■	
[14]		SRH 2001 – 2400 mm	■	■	■	
[55]		SRH 2401 – 2800 mm	–	■	–	
[5]	Hinge side	SRH 315 – 1100 mm	■	■	–	Tilt striker / corner drive → <i>from page 329</i>
[7]		SRH 1101 – 1800 mm	■	■	–	Standard
[3]		SRH 1801 – 2800 mm	■	■	■	
[44] [5]		SRH 320 – 2800 mm	–	■	–	
[5]	Horizontal at the top	SRW 315 – 1200	■	■	■	Tilt striker / corner drive → <i>from page 329</i>
[8]		BSec: SRW 1201 – 1600 mm	■	■	–	Centre lock → <i>from page 330</i>
		RC1 N: SRW 1201 – 1400 mm				
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 330</i>
[5]	Horizontal at the bottom	SRW 315 – 1100 mm	■	–	■	Tilt striker / corner drive → <i>from page 329</i>
[8]		SRW 1101 – 1600 mm	■	–	–	Centre lock → <i>from page 330</i>
[10]		SRW 1101 – 1600 mm	–	–	■	Turn-Only sash → <i>from page 330</i>
[30]		SRW 400 – 800 mm	–	■	–	RC1 N centre lock → <i>from page 330</i>
[31]		SRW 801 – 1000 m	–	■	–	
[32]		SRW 1001 – 1400 mm	–	■	–	

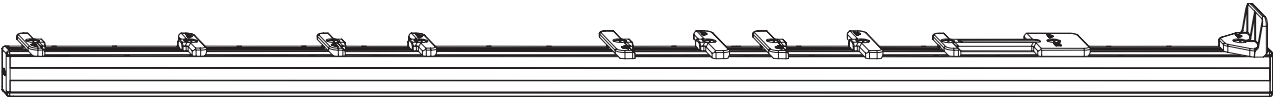
12.2.2.1 Standard



Espagnolette side

					
Standard	Basic security RC 1 N	621 – 1200	Espagnolette side	No. 11	268943
	Basic security RC 1 N	1001 – 1600	Espagnolette side	No. 12	798480
	Basic security RC 1 N	1601 – 2000	Espagnolette side	No. 13	787401
	Basic security RC 1 N	2001 – 2400	Espagnolette side	No. 14	787402
	Basic security RC 1 N	2401 – 2800	Espagnolette side	No. 55	808454

[5] Is used for the top locking point only.



Hinge side

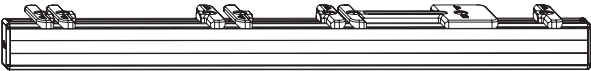
					Nº
Tilt striker / corner drive	RC 1 N	320 – 2600	Hinge side	No. 44	640450
Standard	Basic security RC 1 N	801 – 1600	Espagnolette side Hinge side	No. 7	290074
	Basic security RC 1 N	1601 – 2600	Espagnolette side Hinge side	No. 3	290050



INFO

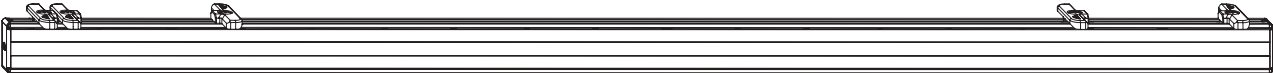
With T&T espagnolettes – centred / variable handle height, use jigs on the hinge side only.

12.2.2.2 Tilt striker / corner drive



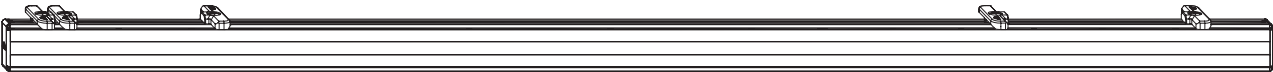
					Nº
Tilt striker / corner drive	315 – 1100	315 – 1200	Top Bottom Hinge side	No. 5	290072

12.2.2.3 Centre lock



					Nº
Centre lock	Basic security RC 1 N	1201 – 1600	Top Bottom	No. 8	290075
		400 – 800	Bottom	No. 30	268931
	RC 1 N	801 – 1000	Bottom	No. 31	268932
		1001 – 1400	Bottom	No. 32	268933

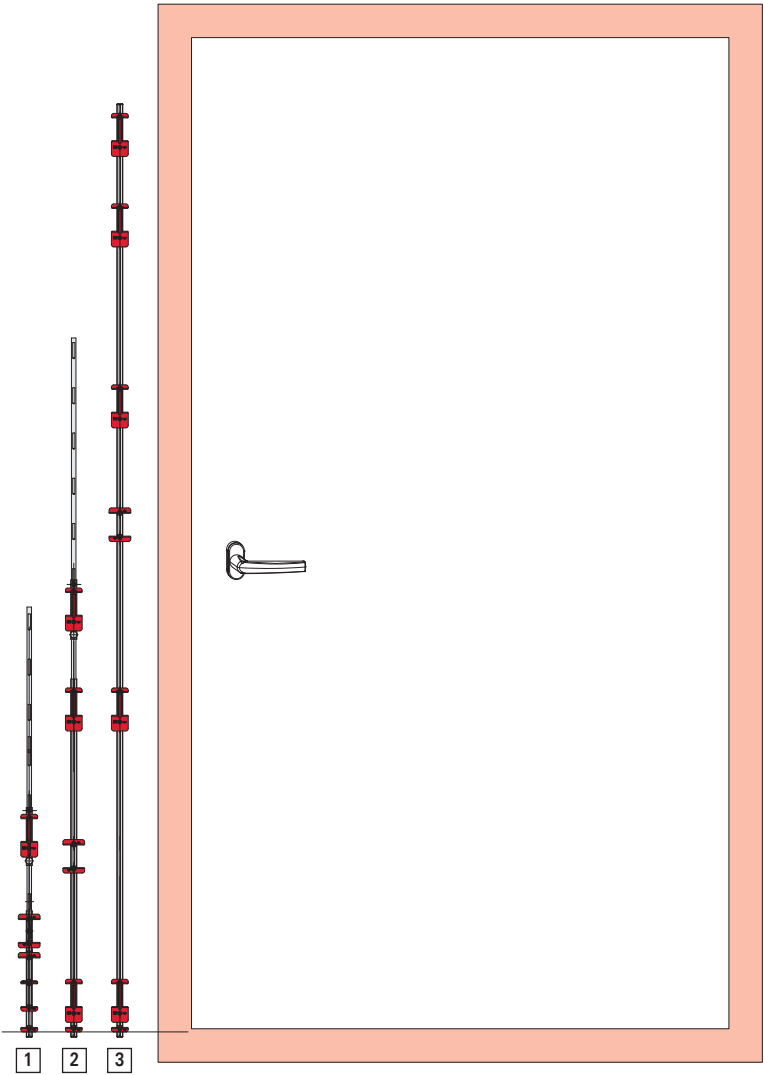
12.2.2.4 Turn-Only sash



				Nº
Turn-Only sash	1101 – 1600	Top Bottom	No. 10	290081



12.2.3 Turn-Only / Tilt-Only espagnolette – fixed handle height



Assignment	Position	Application range	T-O BSec	Single jig
[1]	Espagnolette side	SRH 400 – 1000 mm	■	Standard → <i>from page 334</i>
[2]		SRH 1001 – 1600 mm	■	
[3]		SRH 1601 – 2250 mm	■	

12.2.3.1 Standard

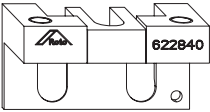


Espagnolette side

				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

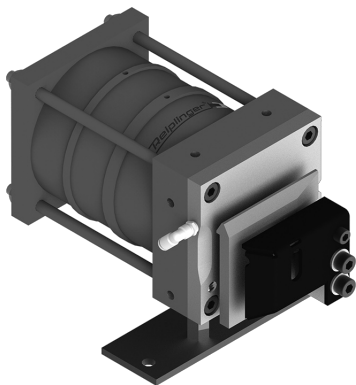
		Nº
Foot control for hydropneumatic punch	–	230760
Hand control for hydropneumatic punch	–	230761

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





12.4.2 Pneumatic punch – PS 100



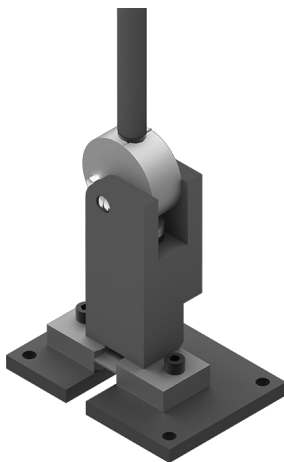
			Nº
Pneumatic punch – PS 100	For offset cuts	Left	553992
		Right	553993

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

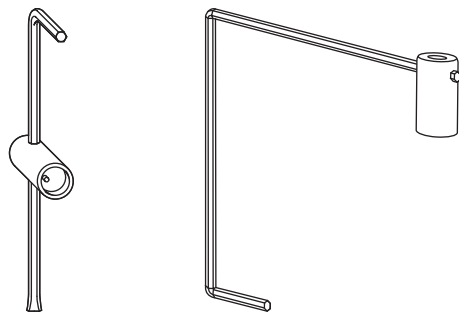
12.4.3 Hand lever punch – HS



			Nº
Hand lever punch – HS	For offset cuts	–	637627

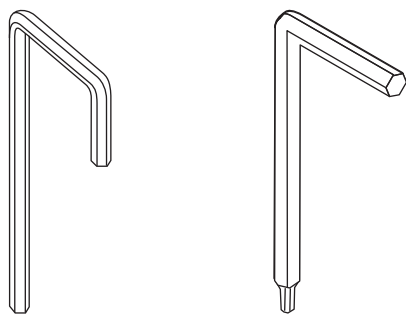
12.5 Tools

12.5.1 Adjustment tools



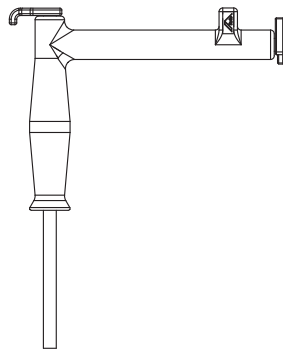
			№	
Adjustment tool: V locking cam				
			258191	
			381574	

12.5.2 Hex keys



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

12.5.3 Extractor handle

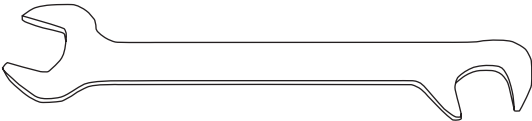


		Nº
Extractor handle for stay-bearing pin		899630
Replacement blade		230765





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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