

Window and Door Technology



Roto Patio Alversa

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

Catalogue
for PVC and timber profiles



german made What does that mean?



Roto Frank AG 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, results 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”.

People across the globe trust our superior performance. They know that they can rely on us for **custom-designed, functional and reliable solutions** and **a comprehensive range of services**.

The Roto name has represented an inventive spirit and technological progress in compatible components for the construction industry since 1935. Roto Frank AG is currently wholly owned by families descended from the company's founder, Wilhelm Frank. It takes the form of a holding for all companies in the Roto Group. Our roots are in Baden-Württemberg, Germany.

We are active all over the world with an extensive business portfolio, two divisions and more than 4000 employees.

The outstanding quality of Roto solutions frequently goes unseen. Millions of items of Roto hardware have enabled windows and doors all over the world to work correctly and move as intended. Even where Roto products can be seen imme-

diately, they impress because they ensure flawless functionality. Roto roof windows improve the quality of life in the rooms underneath the roof. Flashing for photovoltaics and solar thermal energy and the special stairs from Roto Columbus complete our extensive range of products.

We work intensively on the basis of clear management and conduct principles to secure the position of the Roto Group as a success story and to ensure continued success.

We are inspired time and time again by the requests and expectations of our customers – whether you are a builder, planner, architect, manufacturer or retailer of windows and doors, or manufacturer or specialist retailer for roofing.



Roto Worldwide



Roto Frank Latina SA
Buenos Aires (ARG)



Roto Frank Chile
Santiago (CL)



Roto Frank AG
Leinfelden / Velbert (DE)



Roto Frank Belarus
Minsk (BY)



Roto Frank Ehitusrautised OÜ
Tallinn (EE)



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



Roto Frank S.A.
Nivelles (BE)



Roto Frank Ferrures
Saint Avold (FR)



Roto Frank Austria GmbH
Kalsdorf (AT)



Roto Frank Brasil Ltd.
San Jose (BR)



Roto Frank Asia – Pacific Liaison Office India
Mumbai (IN)



Roto Frank
Warsaw (PL)



Fermax Componentes Ltd.
Colombo (BR)



Roto Frank Italia
San Donà di Piave (IT)



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



Roto Fasco Canada Inc.
Mississauga, Ontario (CA)



Roto Frank Latvija
Jūrmala (LV)



OOO Roto Frank
Noginsk (RU)



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



Roto Frank Lithuania
Vilnius (LT)



Roto Frank GmbH
Dietikon (CH)





Roto Frank S.A.
Montmeló (ES)



Roto Frank Ltd. Sti.
Istanbul (TR)



Roto Frank of America Inc.
Chester (US)



Roto Elzett Certa Kft.
Lövő / Sopron (HU)



Roto Frank Indonesia
Jakarta (ID)



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



Roto Frank Okucia Budowlane Sp. z
Kiev (UA)



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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
	Hardware axis
	Description
	Base
	Supporting pin
	Drill hole for supporting pin
	Damping
	DIN left / right
	Backset
	Rebate clearance
	Rebate depth
	Colour
	Colour code
	Sash rebate width
	Sash rebate height
	Sash weight
	Fixed handle height
	Centred / variable handle height







Symbol	Meaning
	Height
	Information
	Length
	Material number
	Installation type
	Surface
	Opening type
	Position
	Profile system
	Frame external width
	Number of welded-on strikers
	Number of locking cams
	Type of locking cams
	Bullet catch
	Security class
	System
	Packaging unit
	Adjustment

1.1.2 Opening types

Symbol	Meaning
	Tilt&Slide
	Parallel Sliding

1.1.3 Ventilation types

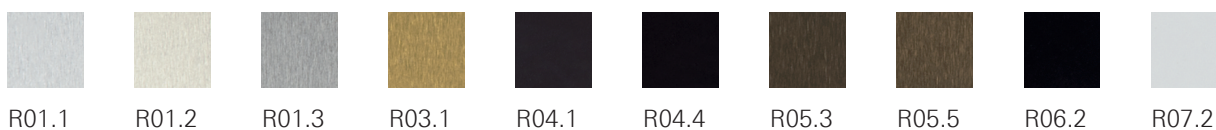
Symbol	Meaning
	Without ventilation
	Night ventilation
	Tilt ventilation
	Comfortable tilt ventilation



1.1.4 Colours

Colour code	Colour	RAL number
R01.1	Natural silver	–
R01.2	Nickel silver	–
R01.3	Titanium	–
R01.4	Chromium	–
R01.5	Silver	–
R03.1	Brass, matt	–
R03.2	Brass, shiny	–
R03.3	Gold	–
R03.4	Stainless-steel design	–
R04.1	Grey brown	8019
R04.3	Olive brown	–
R04.4	Black brown	8022
R05.3	Medium bronze	–
R05.4	Dark bronze	–
R05.5	Bronze	–
R06.2M	Jet black, matt	9005 matt
R06.2	Jet black	9005
R06.4M	Black, matt	–
R07.1	Pure white	9010
R07.2	Traffic white	9016
R07.3	Cream	9001
SP. COL.	Special colour	–
Raw	Uncoated	–

Colour examples



INFO

Colours may deviate in the illustration.

1.1.5 Abbreviations

Abbreviation	Meaning
Lock.	Lockable
HA	Hardware axis
DIN L/R	DIN left/right
BS	Backset
E	E cam
SRW	Sash rebate width
SRH	Sash rebate height
S.kg	Sash weight
BS	Basic security
Y	Yes
KS	Tilt&Slide
N	No
Not dep.	Not depicted
P	P cam
PS	Parallel Sliding
SEC	Security
V	V cam

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 Patio Alversa



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

Window manufacturers are always looking for simple and efficient solutions. They are looking for hardware which combines the highest manufacturing quality with a wide variety of potential applications, quick installation and minimum manufacturing and storage logistics. In this sense, the more flexible and universally applicable a system is, the better it is. Roto meets these high demands. Roto listens closely and understands, and then transforms window manufacturers' requirements into perfect solutions.

Roto Patio Alversa: the answer to the need for universal hardware for minimum effort in Parallel Sliding and Tilt&Slide systems.

Roto Patio Alversa reduces the effort in production, manufacture and storage logistics to a minimum.

This is ensured by a combination of

- Universal central locking system,
- Universal handle and
- Modular sliding system.

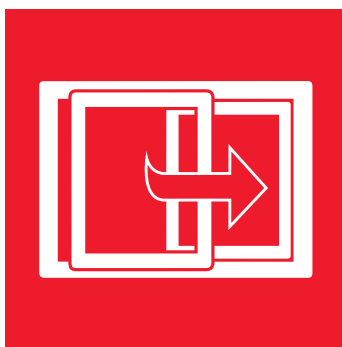
Two opening types in one system.

Opening types



Tilt&Slide (KS)

In Tilt&Slide systems, the door leaf can be brought into the tilt position at a handle position of 90°. This enables the use of tilt ventilation. If the handle is moved further into the 180° position (handle pointing upwards), the locking mechanisms in the lower area are released and the sash pivots outwards. It is retracted in the parallel position and can then be moved to the side.



Parallel Sliding (PS)

With the convenient Parallel Sliding system, the door leaf is retracted in a parallel position at 90° and can then be moved. In the 180° position (handle pointing upwards), the ventilation function in question is achieved. The operating sequence is therefore very intuitive for the user, as it is identical to the known operation of Tilt&Turn windows.

Ventilation types



Night ventilation

For night ventilation, the entire sash is moved a few millimetres away from the frame. This enables air to circulate without the opening being visible from outside.



Tilt ventilation

This innovation combines the advantages of a Parallel Sliding system with the proven tilt ventilation function. The sash is tilted in the 180° handle position.










Comfort tilt ventilation

With comfort tilt ventilation, the sash is automatically moved into the tilt position and closed again by operating the handle. This significantly increases comfort, especially when the sash is heavy.





Rotopatio Alversa

	Rotopatio Alversa KS	Rotopatio Alversa PS	Rotopatio Alversa PS Air	Rotopatio Alversa PS Air Com	
Components	 Tilt&Slide (KS)		 Parallel Sliding (PS)		
	 With tilt ventilation	 Without ventilation	 With night ventilation	 With tilt ventilation	 With tilt ventilation Comfort
	Max. sash weight 100 kg / 160 kg	Max. sash weight 160 kg / 200 kg	Max. sash weight 160 kg / 200 kg	Max. sash weight 160 kg	Max. sash weight 160 kg / 200 kg
	Hardware overview → from page 57	Hardware overview → from page 63	Hardware overview → from page 63	Hardware overview → from page 69	Hardware overview → from page 75
Bogies					
Undamped	■	-	-	-	-
Damped	-	■	■	■	■
Sliding scissor stay					
Tilt&Slide	■	-	-	-	-
Parallel Sliding night ventilation	-	■	■	-	-
Parallel Sliding tilt ventilation	-	-	-	■	■
Guide block, top					
Fixed	-	■	■	-	-
Tilttable	-	-	-	■	■
Centre lock, bottom					
With bullet catch	■	-	-	-	-
Without bullet catch	-	■	■	■	-
With mishandling device	-	-	-	-	■
Centre lock, top					
Without bullet catch	■	■	■	■	-
With comfort scissor stay	-	-	-	-	■
T&T espagnolettes					
Standard	■	■	■	■	-
Reinforced	■	■	■	■	■

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 Certifications

1.5.1 Institute for Window Technology (ift)

Hardware



ift-KONFORMITÄTSZERTIFIKAT
ift-CERTIFICATE OF CONFORMITY

Produktfamilien
product families

Produkt
product

Einsatzbereich
field of application

max. Flügelgewicht
max. casement weight

Hersteller
manufacturer

Produktionsstandorte
production sites

Beschläge für Kippschiebe-Fenster und Fenstertüren
hardware for tilt and slide windows and balcony doors

Roto Patio Alversa PS, Roto Patio Alversa PS Air Com

Systeme mit entsprechender Beschlagaufnahme
systems with suitable hardware groove

200 kg

ROTO Frank AG
Wilhelm-Frank-Platz 1, D 70771 Leinfelden-Echterdingen

ROTO Elzett Certa Kft.
Kossuth Lajos u. 25, H 9461 Lovó

ROTO Frank AG
Eintrachtstraße 95, D 42551 Velbert




Mit diesem Zertifikat wird bescheinigt, dass die benannten Beschläge den Anforderungen des IFT-Zertifizierungsprogramms für Beschläge (QM347:2014) entsprechen.

Grundlagen sind durch das Prüflabor erstellte Produktfamilien der aufgeführten Beschläge. Prüfung durch das Prüflabor nach EN 13126-17:2008 und EN 1191:2012 unter Berücksichtigung der Anwendungsdiagramme, eine werkseigene Produktionskontrolle des Herstellers und eine Fremdüberwachung der Fertigung durch die Überwachungsstelle in den benannten Standorten.

Die Gültigkeitsdauer des Zertifikates beträgt 5 Jahre. Mit der Erteilung des Zertifikates ist eine regelmäßige Fremdüberwachung des Herstellers verbunden.

Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem Ift-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen.

Das Unternehmen ist berechtigt, die Beschläge gemäß der Ift-Zeichensatzung mit dem „Ift-zertifiziert“-Zeichen zu kennzeichnen.

Dieses Zertifikat enthält 2 Anlagen:
1: Übersicht der Produktfamilien
2: Austauschbarkeit nach EN 14351-1

The present certificate attests that the hardware mentioned fulfills the requirements of the Ift-certification scheme for hardware (QM347:2014).

Basis of the certificate are the product families of the hardware listed that have been compiled by the test laboratory, tests performed by the test laboratory as per EN 13126-17:2008 and EN 1191:2012 based on the application diagrams, factory production control by the manufacturer and third-party surveillance audits of the production by the surveillance bodies at the plants mentioned.

The certificate is valid for a period of 5 years. Award of the certificate is tied to regular third-party surveillance of the manufacturer.

The reproduction of the certificate without any change whatsoever from the original, is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to Ift-C-Zert accompanied by the necessary evidence.

The company is authorised to affix the "Ift-certified"-mark to the hardware according to the Ift rules for use of the "Ift-certified"-mark.

*This Certificate contains 2 Annexes:
1: List of product families
2: Interchangeability as per EN 14351-1*

Rosenheim
10. Juli 2017


Christian Kehrner
Leiter Ift Zertifizierungs- und Überwachungsstelle
Head of Ift Certification and Surveillance Body


Ulrich Siebmann
Institutsleiter
Director of Institute

Vertrag-Nr. / Contract No.: 228PSK 7012530

Zertifikat-Nr. / Certificate No.: 228PSK 7012530-2-3

Gültig bis / Valid: 09. Januar 2022

ift Rosenheim GmbH
Theodor-Güel-Str. 7
D-83028 Rosenheim

Kontakt
Tel: +49 8031 261-0
Fax: +49 8031 261-300
www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17095
Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notified Body 0737
POZ-Stelle: BAY 18

DAK&S
Dachstuhl
Akkreditierung
DIN EN ISO 9001

2013-11-1864

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



1.5.2 Environmental management

Roto Frank AG Leinfelden provides proof of environmental awareness with certification in accordance with DIN EN ISO 14001.

Roto takes into consideration the environmental compatibility of products and procedures which conserve resources right from the beginning, during development, design, planning, production and logistics.

The certification underlines the environmental awareness at Roto:

- Roto works towards health and safety at the workplace, accident prevention and system safety as its fundamental goal when it comes to occupational safety.
- Roto views environmental protection as an integral part of all its business activities and decisions. The company is shaped by its environmentally conscious behaviour, the environmental compatibility of its products and procedures, as well as the preservation of existing resources.
- The long service life of Roto products also contributes to the preservation of existing resources.

ZERTIFIKAT

Hiermit wird bescheinigt, dass

Roto Frank AG
Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen

ein **Umweltmanagementsystem** eingeführt hat und anwendet.

Geltungsbereich:
Entwicklung/Konstruktion, Herstellung und Vertrieb von Fenster- und Türtechnologie

Durch ein Audit, dokumentiert in einem Bericht, wurde der Nachweis erbracht,
dass das Managementsystem die Forderungen des folgenden Regelwerks erfüllt:

ISO 14001 : 2004 + Cor 1 : 2009

Zertifikat-Registrier-Nr. 059808 UM
Gültig ab 2015-04-14
Gültig bis 2018-04-13
Zertifizierungsdatum 2015-03-09

DQs GmbH
G. Blechschmidt
Götz Blechschmidt
Geschäftsführer

Akkreditierte Stelle: DQs GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

IONet

1.5.3 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

Hiermit wird bescheinigt, dass

 **Roto Frank AG**
Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen
Deutschland
mit den im Anhang gelisteten Standorten

ein **Qualitätsmanagementsystem** eingeführt hat und anwendet.

Geltungsbereich:
Entwicklung/Konstruktion, Herstellung und Vertrieb von Fenster- und Türtechnologie

Durch ein Audit, dokumentiert in einem Bericht, wurde der Nachweis erbracht, dass das Managementsystem die Forderungen des folgenden Regelwerks erfüllt:

ISO 9001 : 2008

Zertifikat-Registrier-Nr. 059808 QM08
Gültig ab 2016-02-28
Gültig bis 2018-09-14
Zertifizierungsdatum 2016-02-24


Deutsche
Akreditierungsstelle
D-ZM-16074-01-00

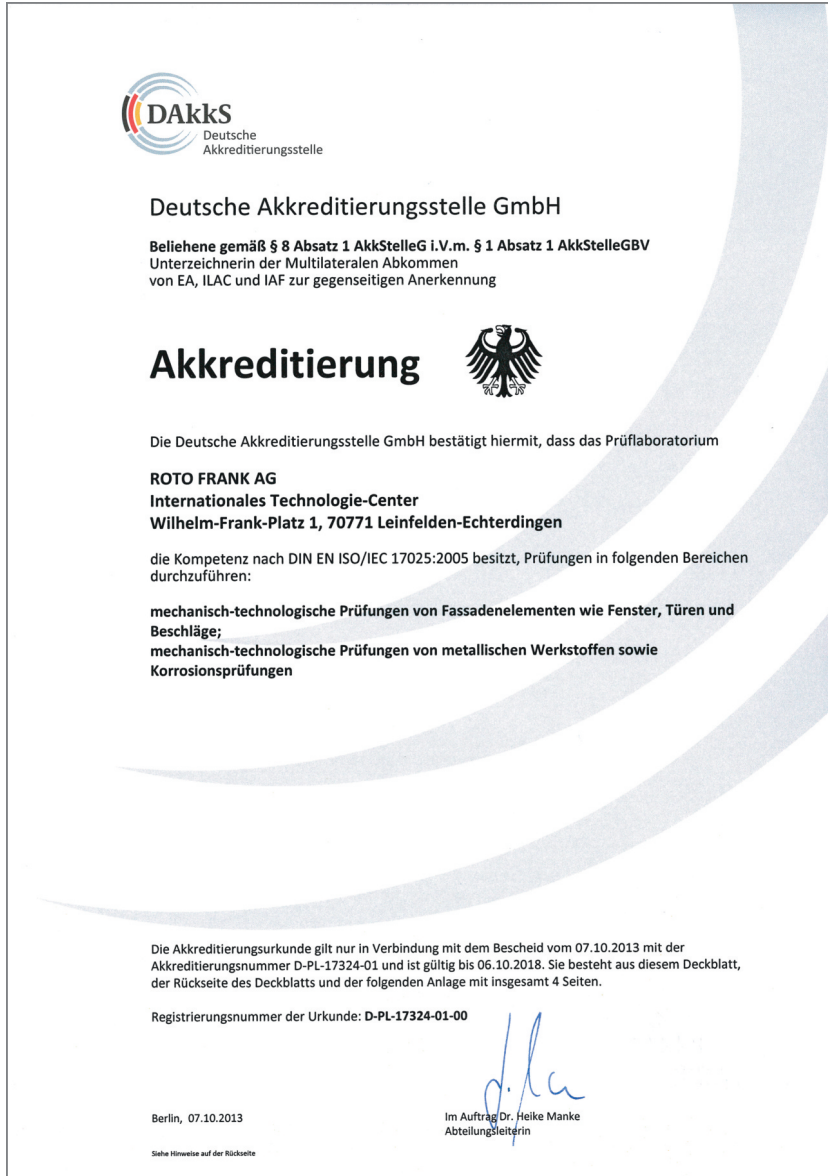
DQS GmbH
G. Blechschmidt
Götz Blechschmidt
Geschäftsführer

Akkreditierte Stelle: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

1 / 3

1.5.4 International Technology Centre (ITC)

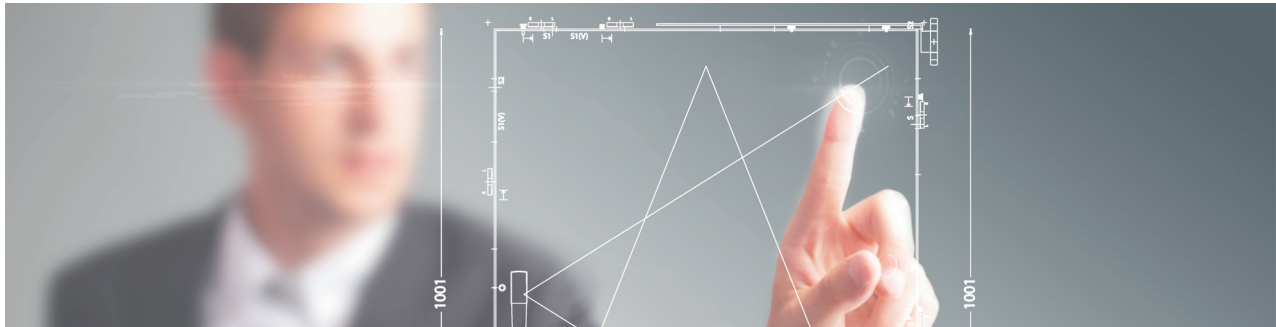
The Roto Group has owned a modern International Technology Centre (ITC) at its Leinfelden headquarters since October 1996. This facility is available for both our own material and product testing as well as for inspecting finished products made by Roto market partners.



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 industry. 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.

1.6 Roto Con Orders

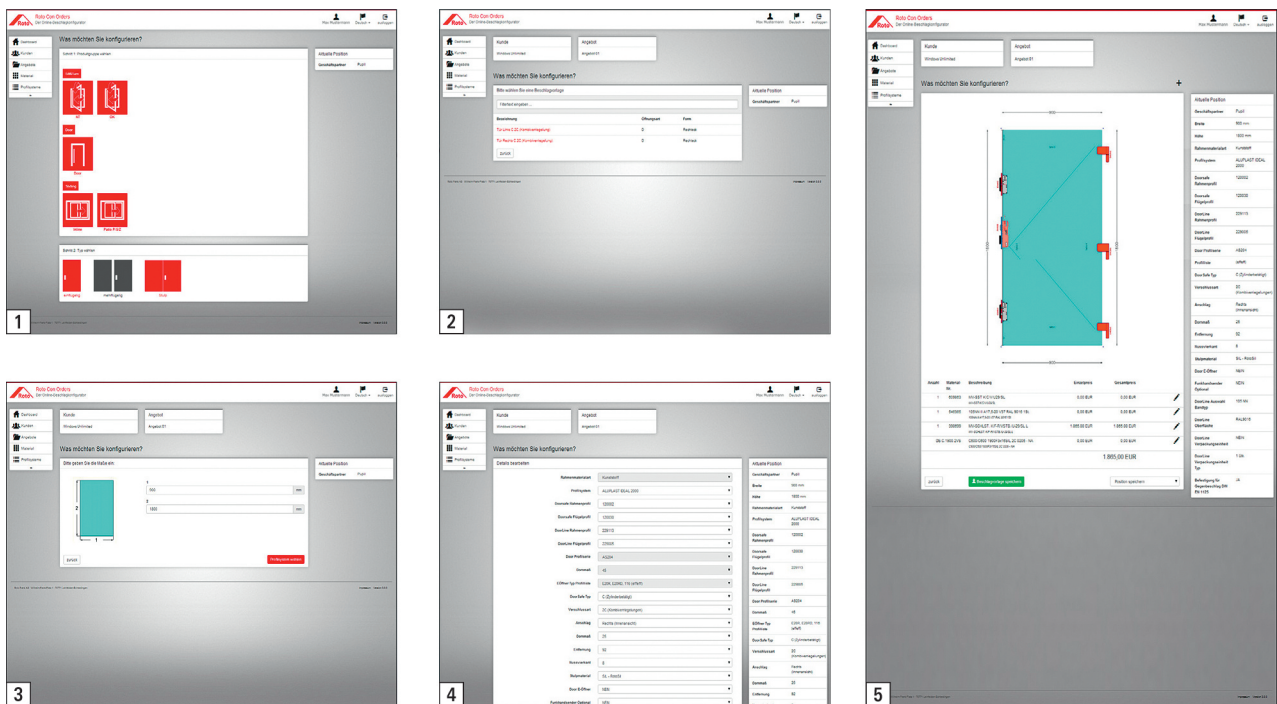


Just four steps for a finished parts list

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 itemisation is finished. The list can be changed, adjusted 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 adjustments
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



1.7 Additional media



1.7.1 Documents

This catalogue offers an overview of the product range. Detailed technical information can be found in the documents listed below.

Installation, maintenance and operation instructions

Title	Document no.
Roto Patio Alversa – Timber and PVC profiles	IMO_407
Roto Patio Alversa – Aluminium profiles	IMO_408
Roto Patio Alversa – Aluminium profiles with 16 mm hardware groove	IMO_409

Catalogues

Title	Document no.
Roto Patio Alversa – Catalogue for aluminium profiles	CTL_94
Roto Handles – Handles for all opening types	CTL_1
Roto NT – Catalogue for timber profiles	CTL_6_EN
Roto NT – Catalogue for PVC profiles	CTL_7_EN
Roto NX – Catalogue for PVC profiles	CTL_105

The above-mentioned documents can be downloaded in the “Service” area of the Roto Window and Door Technology website:



www.roto-frank.com



1.7.2 Videos

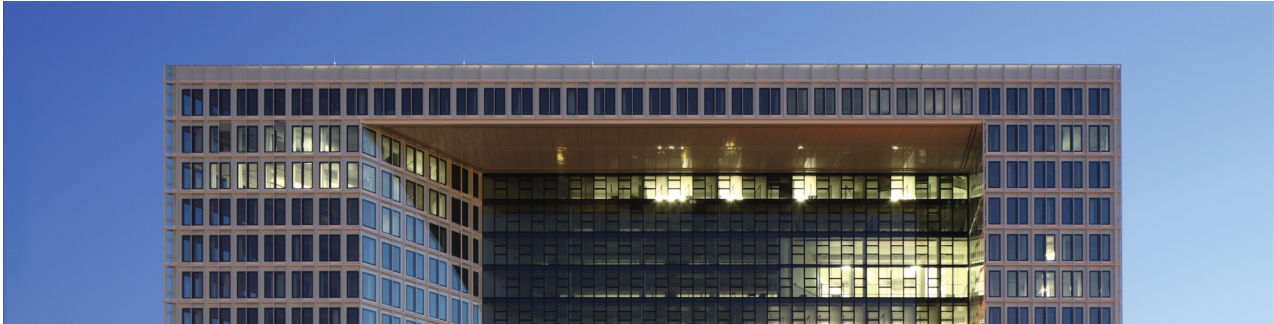
Installation videos relating to each product group can be found in the “Service” area of the Roto Window and Door Technology website:



www.roto-frank.com

1.8 Further Roto products

1.8.1 Roto Tilt&Turn



Roto NX is a 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. Roto NX provides intelligent responses to new requirements, with a focus on efficiency, security, comfort and design.

Today, almost any project is feasible with Roto hardware technology for aluminium windows and doors – in a short time, produced to outstanding quality and under favourable terms. For inward opening and outward opening windows.

Roto Tilt&Turn – PVC / timber windows and balcony doors



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



Roto NT Designo

Concealed hinge solution for windows and balcony doors with high sash weights up to 150 kg

Roto Tilt&Turn – Aluminium windows and balcony doors



Roto AL

Universal hardware for aluminium windows and balcony doors



Roto AL Designo

Concealed hardware for aesthetic aluminium windows and balcony doors



Roto Outward Opening – Outward opening windows



Roto FS Kempton

Stainless-steel friction stays for outward opening windows



Roto PS Aintree

Stainless-steel parallel stays for outward opening windows



1.8.2 Roto Sliding



Roto offers a comprehensive range of hardware solutions for a wide variety of sliding doors.

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

Standard hardware for large Lift&Slide doors



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 – Simple sliding windows and doors



Roto Inline

Hardware systems for simple sliding windows and doors



1.8.3 Roto Door



Millions of items of Roto hardware have enabled windows and doors all over the world to work correctly and move as intended. With Roto Door, we are concentrating on the development and production of door technology that meets modern requirements in terms of security and comfort.

Roto Safe – Multipoint locking systems



Roto Safe H

Mechanical multipoint locking system for lever-handle operated doors



Roto Safe C

Mechanical multipoint locking system for cylinder-operated doors



Roto Safe E

Electromechanical multipoint locking systems for doors

Roto Solid – Hinges



Roto Solid S

Screw-on hinges for doors



Roto Solid B

Butt hinges for doors

Roto Eifel – Thresholds



Roto Eifel

Tailor-made range of thresholds for tightly sealed accessible doors and balcony doors



1.9 Imprint

Roto Frank AG

Window and Door Technology
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Application ranges	
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<hr/>	
Dimension M	
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<hr/>	
Roto Patio Alversa KS	
Up to 100 kg sash weight	38
Up to 160 kg sash weight	39
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Roto Patio Alversa PS without / with night ventilation	
Up to 160 kg sash weight	40
Up to 200 kg sash weight	41
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Roto Patio Alversa PS Air	
Up to 160 kg sash weight	42
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Profile sections	
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2 Application diagrams

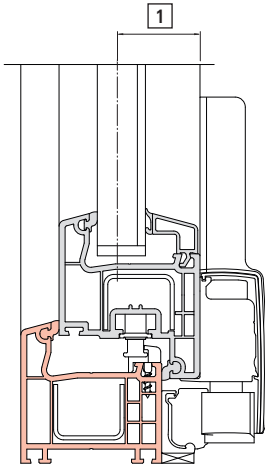
2.1 Application ranges



- Sash rebate width: max. 2000 mm
- Sash rebate height: max. 2700 mm
- Sash weight: max. 200 kg
- Rebate clearance: 12 mm
- 18 – 22 mm overlap width
- 15 mm minimum overlap height
- 9 mm hardware axis not available for Roto Patio Alversa | PS with night ventilation
- 13 mm hardware axis available for all Roto Patio Alversa variants
- 130 mm retracting distance
- Compatible with RC 1 N and RC 2 / RC 2 N
- Sash arrangement according to diagrams A, C and D
- For profiles which run on the inside only
- Operating range: -20 °C to +50 °C



2.2 Dimension M



[1] Dimension M

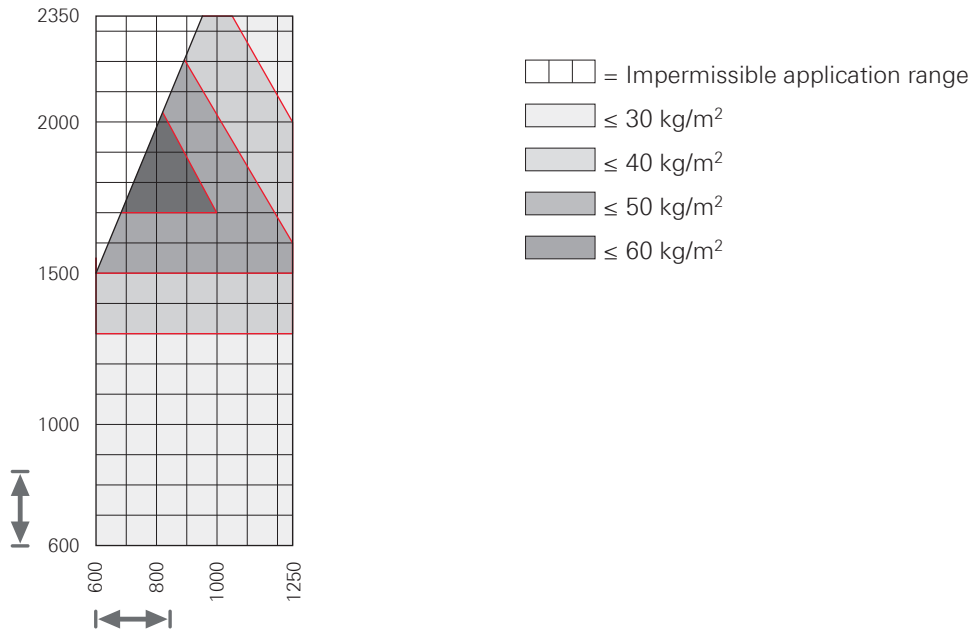


INFO

Valid for dimension M between 28 and 52 mm. Different dimensions require a technical assessment by Roto.

2.3 Roto Patio Alversa | KS

2.3.1 Up to 100 kg sash weight



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

1 mm/m² glass thickness ≈ 2.5 kg

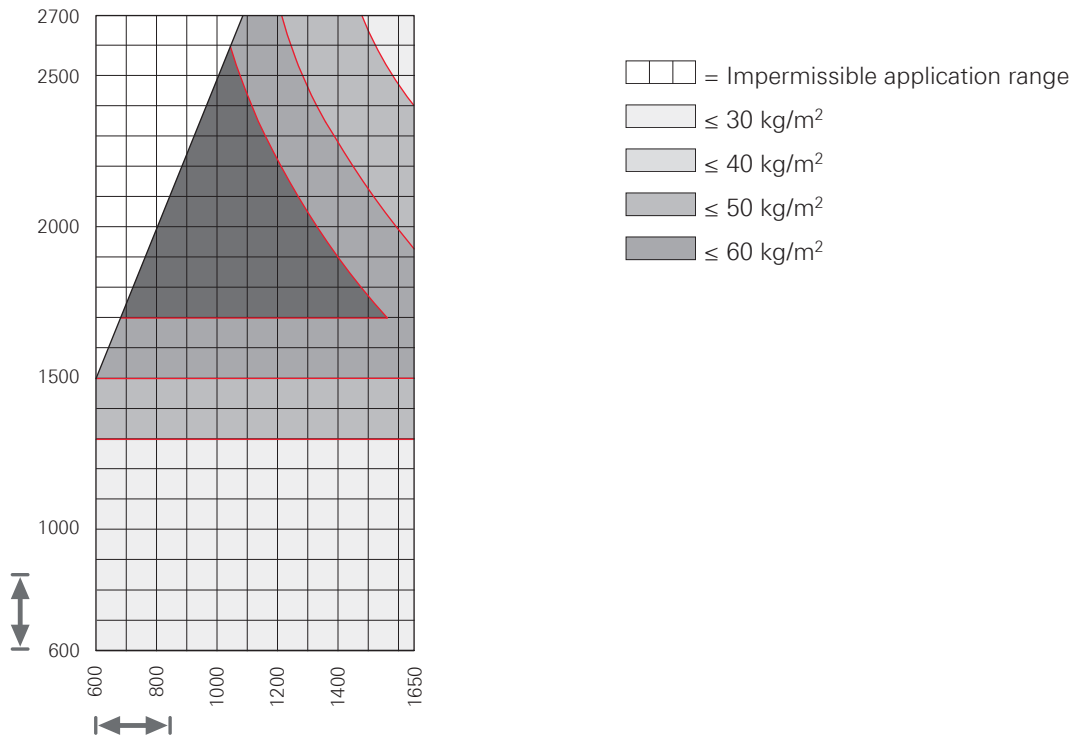
SRH:SRW = max. 2.5:1

Application range		
↔	Sash rebate width (SRW)	Diagram A, PVC / timber
		Diagram C, PVC, opposite hardware groove 620 – 1250 mm
		Diagram C, PVC, concealed hardware groove 600 – 1250 mm
		Diagram C, timber 620 + y ^[1] – 1250 mm
↑ ↓	Sash rebate height (SRH)	600 – 2350 mm
🏠	Sash weight (S.kg)	max. 100 kg
–	Glass weight	max. 60 kg/m ²

[1] Dimension y: → 2.7.1 "Roto Patio Alversa | KS horizontal cross section" from page 45



2.3.2 Up to 160 kg sash weight



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

1 mm/m² glass thickness ≈ 2.5 kg

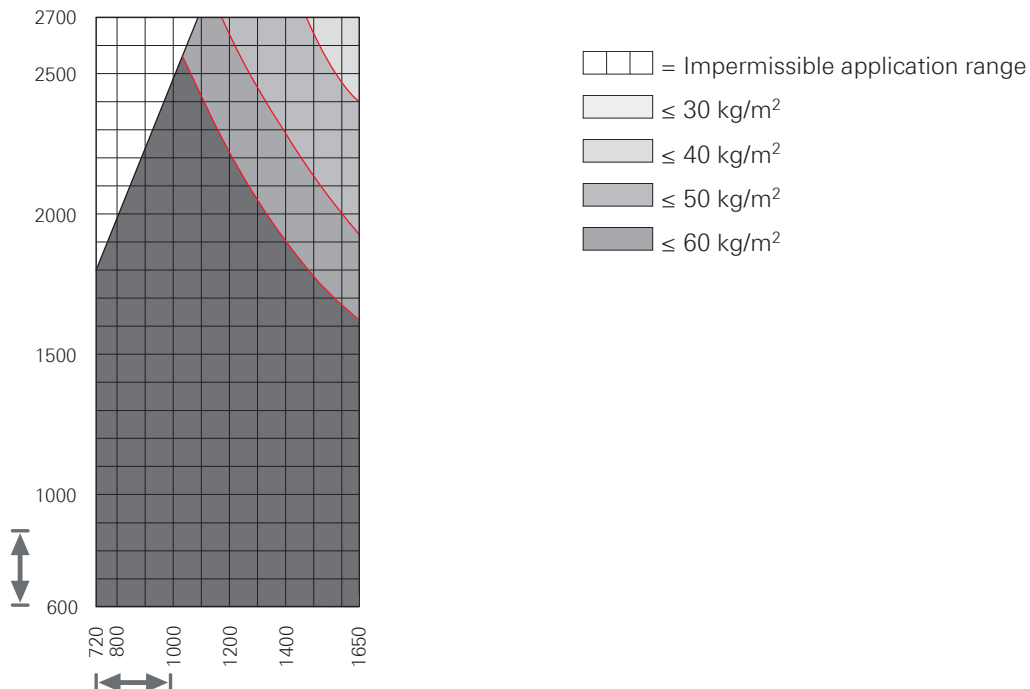
SRH:SRW = max. 2.5:1

Application range		
↔	Sash rebate width (SRW)	Diagram A, PVC/timber Diagram C, PVC, opposite hardware groove 620 – 1650 mm Diagram C, PVC, concealed hardware groove 600 – 1650 mm Diagram C, timber 620 + y [2] – 1650 mm
↑ ↓	Sash rebate height (SRH)	600 – 2700 mm
	Sash weight (S.kg)	max. 160 kg
–	Glass weight	max. 60 kg/m ²

[2] Dimension y: → 2.7.1 "Roto Patio Alversa | KS horizontal cross section" from page 45

2.4 Roto Patio Alversa | PS without / with night ventilation

2.4.1 Up to 160 kg sash weight



The specifications in the application diagram refer to the glass weight in kg/m^2 .

1 mm/m^2 glass thickness $\approx 2.5 \text{ kg}$

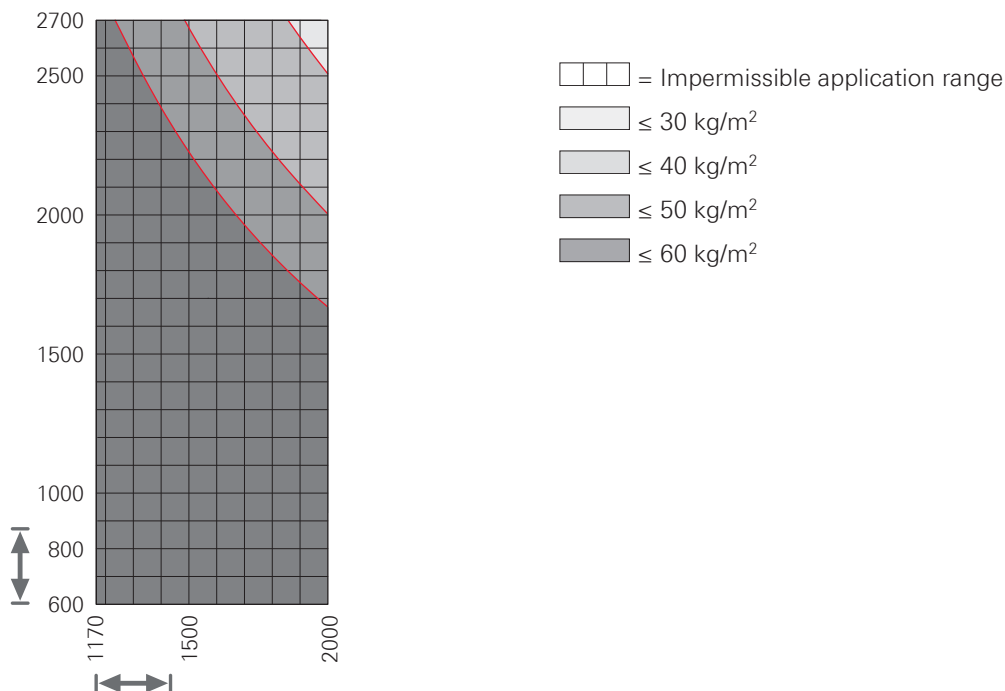
SRH:SRW = max. 2.5:1

		Application range
	Sash rebate width (SRW)	Diagram A, PVC / timber: 720 – 1650 mm
		Diagram C, PVC, opposite hardware groove: 740 – 1650 mm
		Diagram C, PVC, concealed hardware groove: 720 – 1650 mm
		Diagram C, timber: 740 + y ^[3] – 1650 mm
	Sash rebate height (SRH)	600 – 2700 mm
	Sash weight (S.kg)	max. 160 kg
	Handle height	Central (SRH / 2)
		For SRH 1801 – 2400 mm: fixed handle height 1000 mm
–	Glass weight	max. 60 kg/m^2

[3] Dimension y: → 2.7.2 "Roto Patio Alversa | PS horizontal cross section" from page 46



2.4.2 Up to 200 kg sash weight



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

1 mm/m² glass thickness \approx 2.5 kg

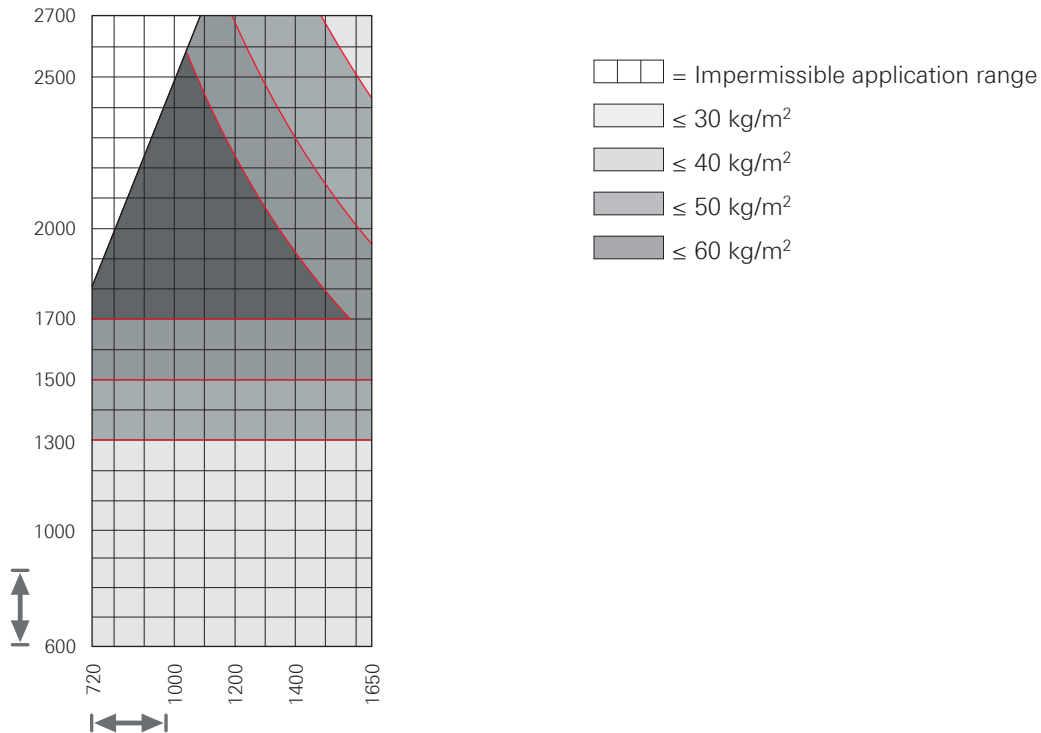
SRH:SRW = max. 2.5:1

Application range		
	Sash rebate width (SRW)	Diagram A, PVC / timber: 1170 – 2000 mm
		Diagram C, PVC, opposite hardware groove: 1190 – 2000 mm
		Diagram C, PVC, concealed hardware groove: 1170 – 2000 mm
		Diagram C, timber: 1190 + y ^[4] – 2000 mm
	Sash rebate height (SRH)	600 – 2700 mm
	Sash weight (S.kg)	max. 200 kg
	Handle height	Central (SRH / 2)
		For SRH 1801 – 2400 mm: fixed handle height 1000 mm
–	Glass weight	max. 60 kg/m ²

[4] Dimension y: → 2.7.2 "Roto Patio Alversa | PS horizontal cross section" from page 46

2.5 Roto Patio Alversa | PS Air

2.5.1 Up to 160 kg sash weight



The specifications in the application diagram refer to the glass weight in kg/m^2 .

1 mm/m² glass thickness \approx 2.5 kg

SRH:SRW = max. 2.5:1

		Application range
↔	Sash rebate width (SRW)	Diagram A, PVC / timber: 720 – 1650 mm
		Diagram C, PVC, opposite hardware groove: 740 – 1650 mm
		Diagram C, PVC, concealed hardware groove: 720 – 1650 mm
		Diagram C, timber: $740 + y^{[5]}$ – 1650 mm
↑↓	Sash rebate height (SRH)	600 – 2700 mm
🏠	Sash weight (S.kg)	max. 160 kg ^[6]
👉	Handle height	Central (SRH / 2)
		For SRH 1801 – 2400 mm: fixed handle height 1000 mm
–	Glass weight	max. 60 kg/m^2

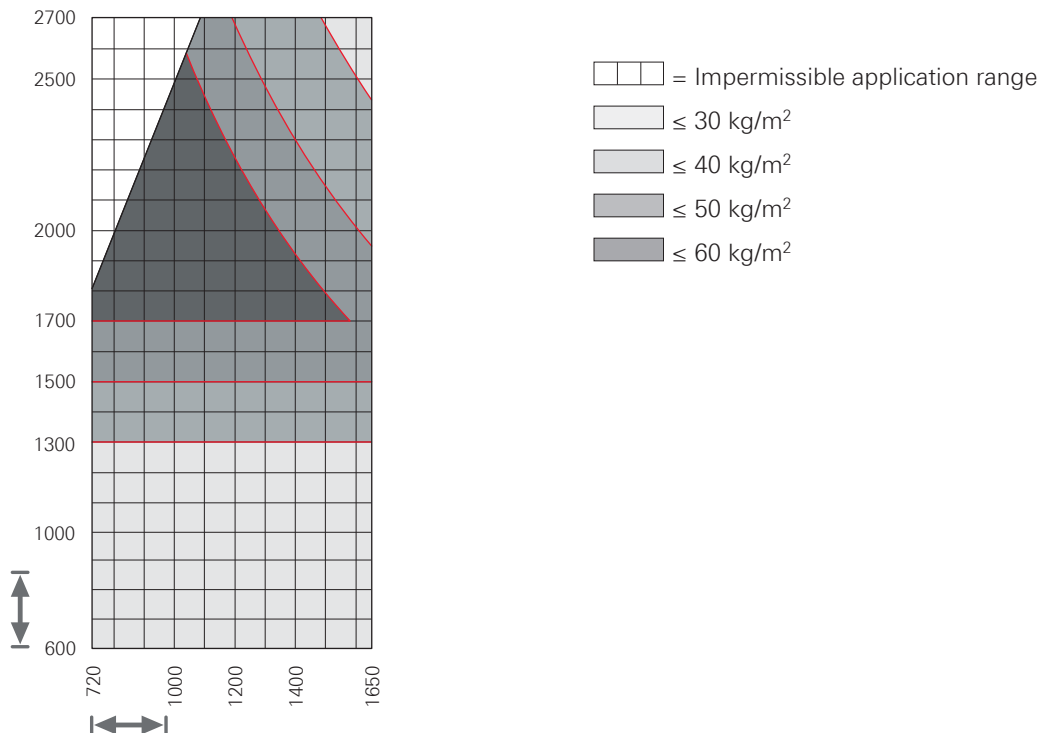
[5] Dimension y: → 2.7.2 "Roto Patio Alversa | PS horizontal cross section" from page 46

[6] Use of the retrofit set for the lock-in position is optional from S.kg >80 kg.



2.6 Roto Patio Alversa | PS Air Com

2.6.1 Up to 160 kg sash weight



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

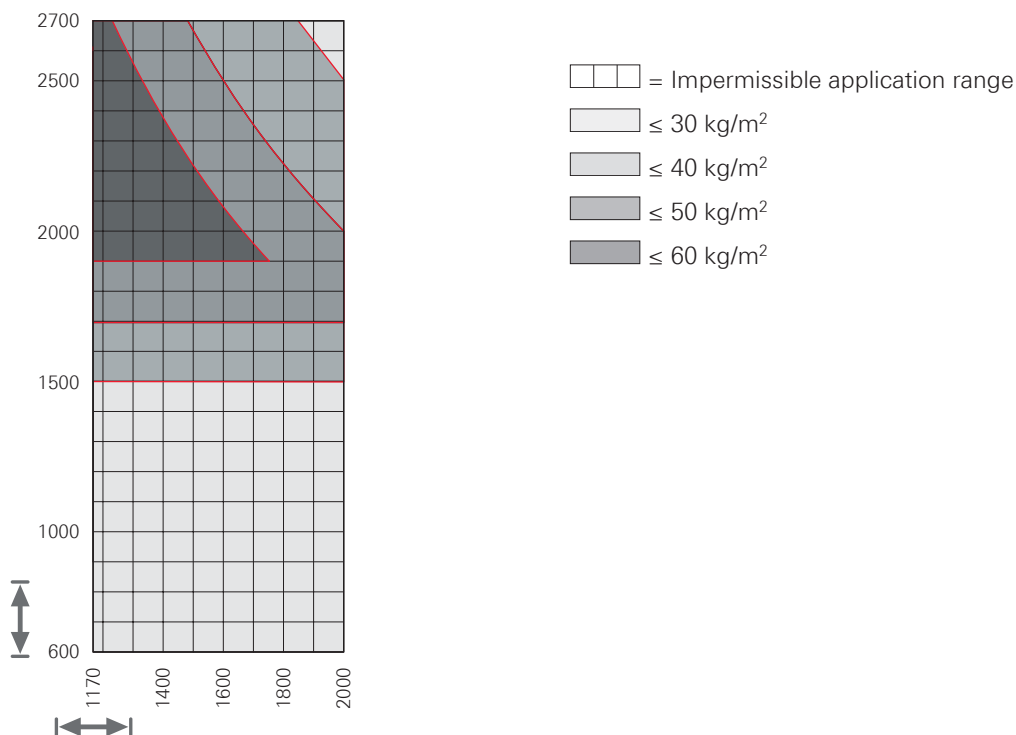
1 mm/m² glass thickness \approx 2.5 kg

SRH:SRW = max. 2.5:1

		Application range
↔	Sash rebate width (SRW)	Diagram A, PVC / timber: 720 – 1650 mm
		Diagram C, PVC, opposite hardware groove: 740 – 1650 mm
		Diagram C, PVC, concealed hardware groove: 720 – 1650 mm
		Diagram C, timber: 740 + y ^[7] – 1650 mm
↑↓	Sash rebate height (SRH)	600 – 2700 mm
🏠	Sash weight (S.kg)	max. 160 kg
↑↓	Handle height	Central (SRH / 2)
🏠		For SRH 1801 – 2400 mm: fixed handle height 1000 mm
–	Glass weight	max. 60 kg/m ²

[7] Dimension y: → 2.7.2 "Roto Patio Alversa | PS horizontal cross section" from page 46

2.6.2 Up to 200 kg sash weight



The specifications in the application diagram refer to the glass weight in kg/m^2 .

1 mm/m² glass thickness \approx 2.5 kg

SRH:SRW = max. 2.5:1

Application range		
↔	Sash rebate width (SRW)	Diagram A, PVC / timber: 1170 – 2000 mm
		Diagram C, PVC, opposite hardware groove: 1190 – 2000 mm
		Diagram C, PVC, concealed hardware groove: 1170 – 2000 mm
		Diagram C, timber: 1190 + y ^[8] – 2000 mm
↕	Sash rebate height (SRH)	600 – 2700 mm
🏠	Sash weight (S.kg)	max. 200 kg ^[9]
👉	Handle height	Central (SRH / 2)
		For SRH 1801 – 2400 mm: fixed handle height 1000 mm
–	Glass weight	max. 60 kg/m^2

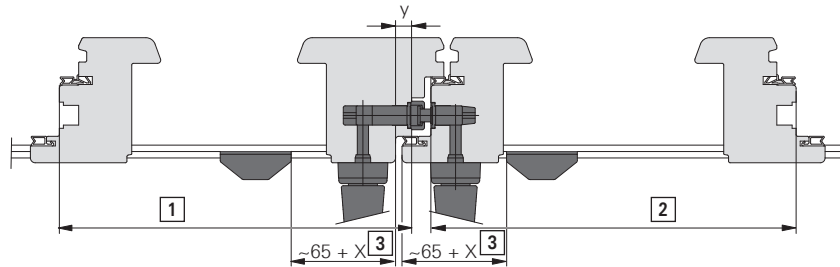
[8] Dimension y: → 2.7.2 "Roto Patio Alversa | PS horizontal cross section" from page 46

[9]



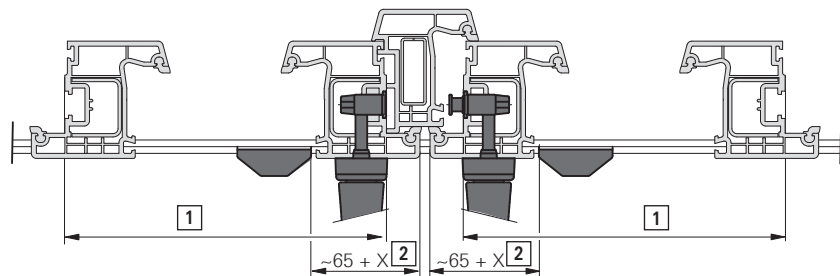
2.7 Profile sections

2.7.1 Roto Patio Alversa | KS horizontal cross section



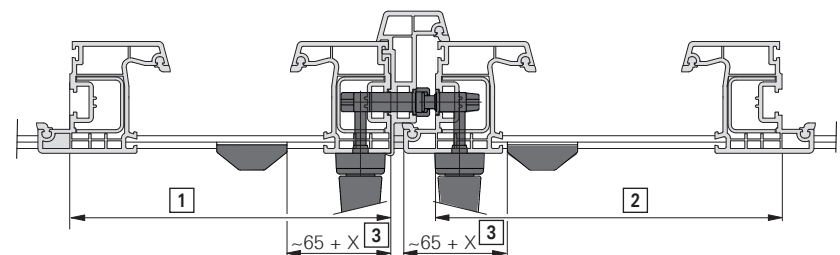
Two-sashed (without centre post / fixed glazing)

Assignment	Application range	Meaning
[1]	SRW min. 620 + y	–
[2]	SRW min. 600	–
[3]	~65 + X	Dimension X (= curve or pitch on the sash)



Two-sashed, concealed hardware groove / fixed glazing

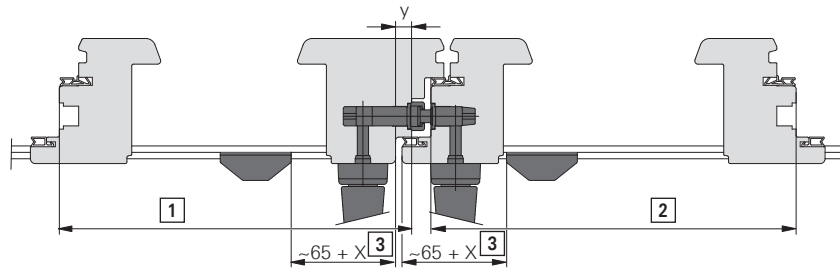
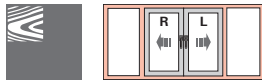
Assignment	Application range	Meaning
[1]	SRW min. 600	–
[2]	~65 + X	Dimension X (= curve or pitch on the sash)



Two-sashed, opposite hardware groove / fixed glazing

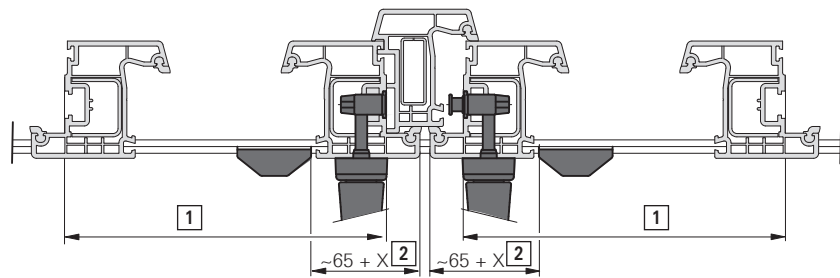
Assignment	Application range	Meaning
[1]	SRW min. 620	–
[2]	SRW min. 600	–
[3]	~65 + X	Dimension X (= curve or pitch on the sash)

2.7.2 Rotopatio Alversa | PS horizontal cross section



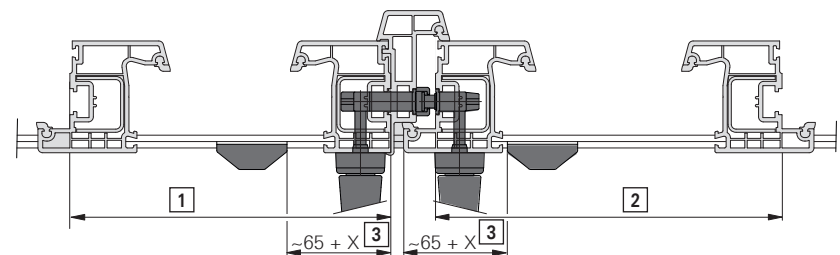
Two-sashed (without centre post / fixed glazing)

Assignment	Application range	Meaning
[1]	SRW min. 740 + y	–
[2]	SRW min. 720	–
[3]	S.kg ≥ 160 kg: SRW min. 1190 + y	–
[4]	S.kg ≥ 160 kg: SRW min. 1170	–
[5]	~65 + X	Dimension X (= curve or pitch on the sash)



Two-sashed, concealed hardware groove / fixed glazing

Assignment	Application range	Meaning
[1]	SRW min. 720	–
[2]	S.kg ≥ 160 kg: SRW min. 1170	–
[3]	~65 + X	Dimension X (= curve or pitch on the sash)

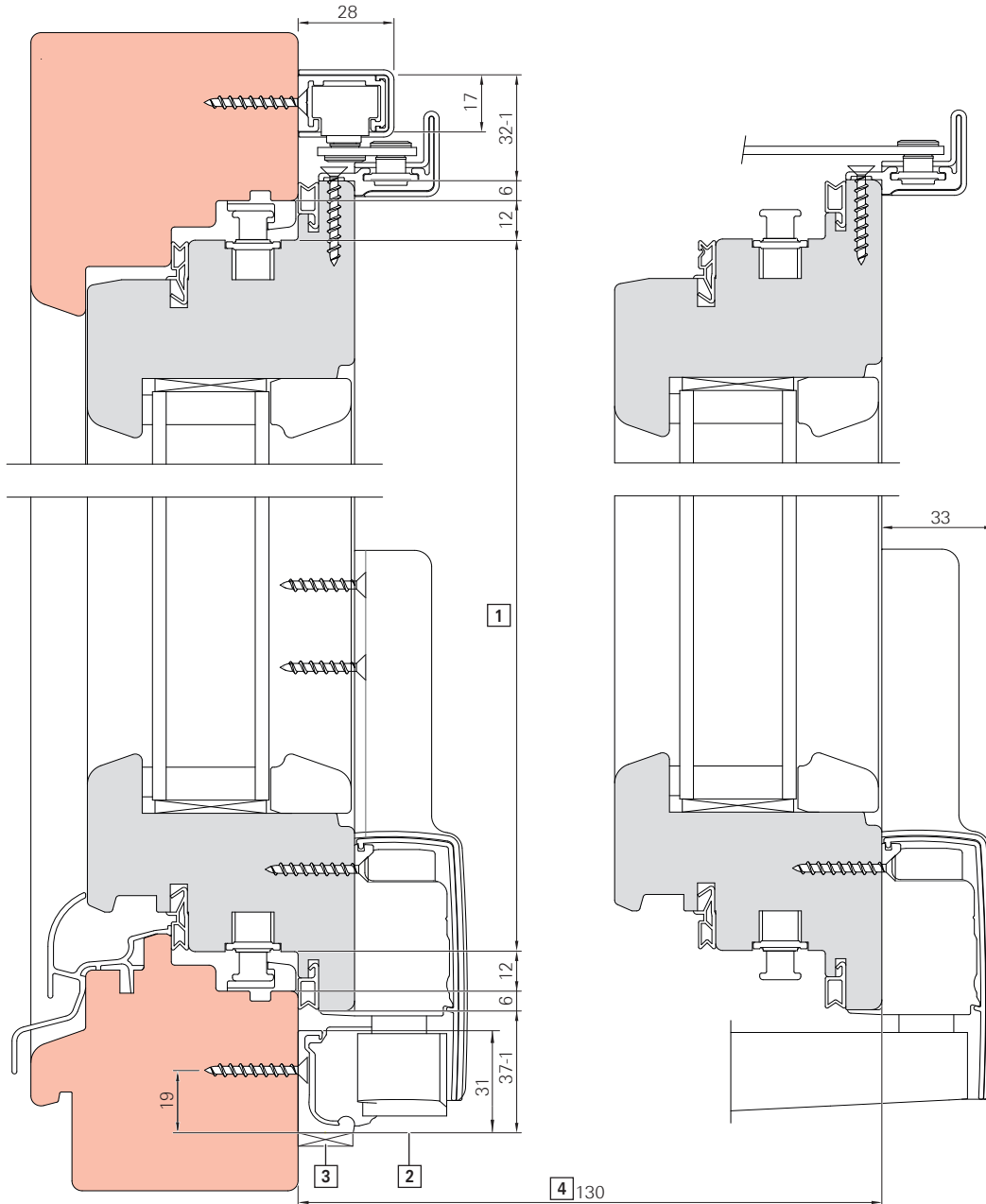


Two-sashed, opposite hardware groove / fixed glazing

Assignment	Application range	Meaning
[1]	SRW min. 740	–
[2]	SRW min. 720	–
[3]	S.kg ≥ 160 kg: SRW min. 1190	–
[4]	S.kg ≥ 160 kg: SRW min. 1170	–
[5]	~65 + X	Dimension X (= curve or pitch on the sash)

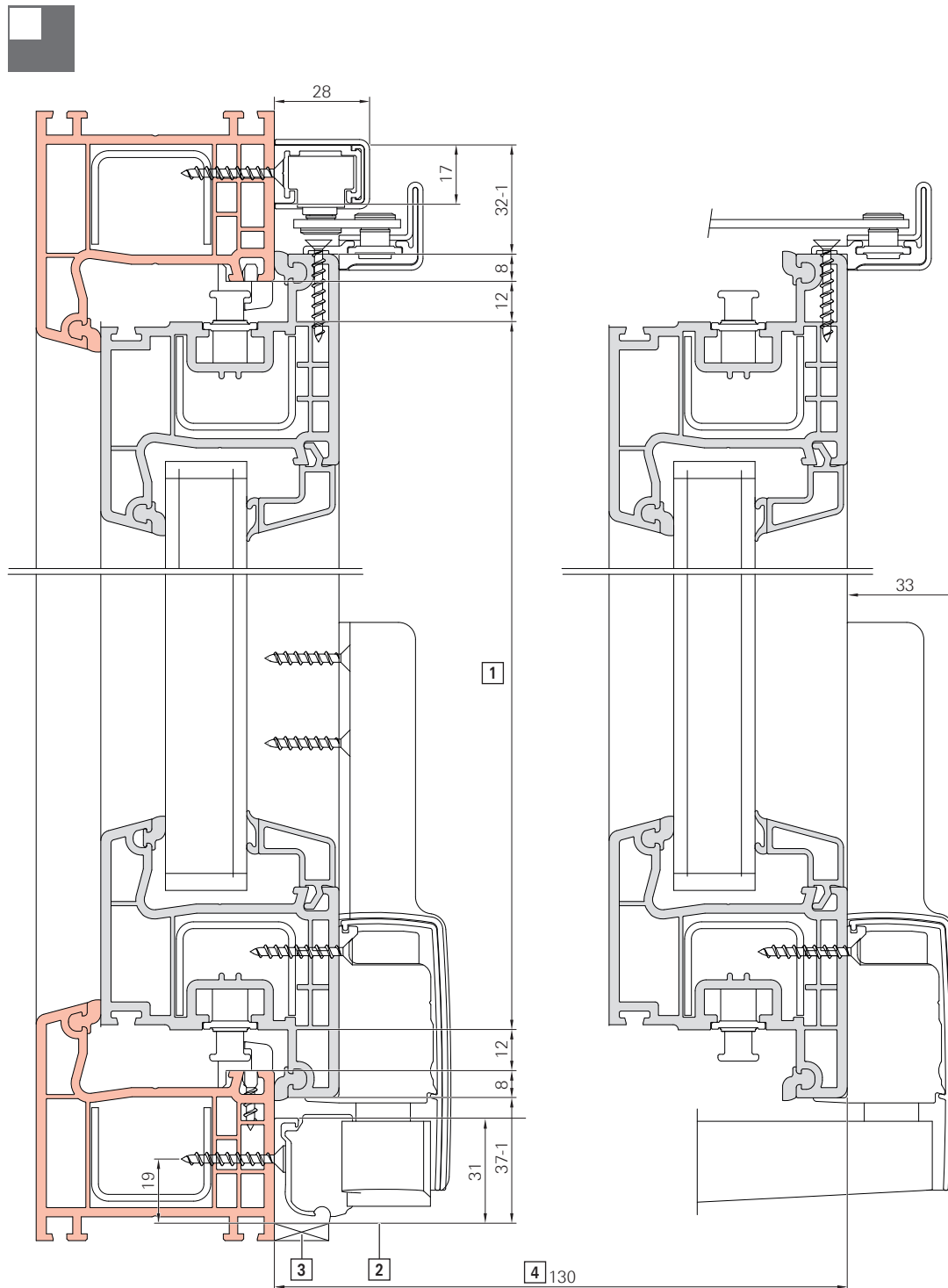


2.7.3 Vertical cross section



Assignment	Meaning
[1]	SRH
[2]	Max. top edge of finished floor
[3]	Underlay the roller track over the entire length on site in order to transfer the load.
[4]	Retracting distance

Application diagrams
Profile sections
 Vertical cross section



Assignment	Meaning
[1]	SRH
[2]	Max. top edge of finished floor
[3]	Underlay the roller track over the entire length on site in order to transfer the load.
[4]	Retracting distance

Note regarding the design variants

See page 50

Diagram A

See page 51

Diagram C

See page 52

Diagram D

See page 53

3 Design variants

3.1 Note regarding the design variants

Combinations for constructing the Patio Alversa are assigned to the following diagrams.

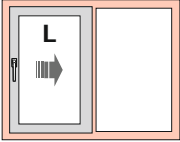
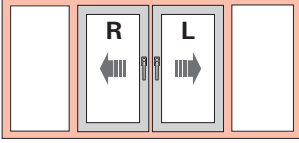

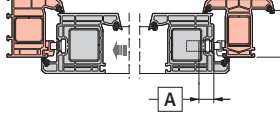
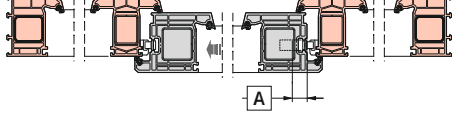
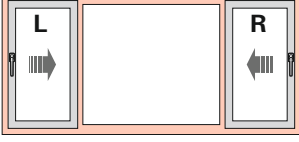
These combinations can be built in DIN L and R.

The cross sections show where the espagnolette is installed.



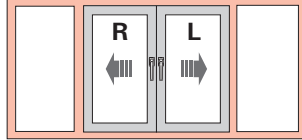
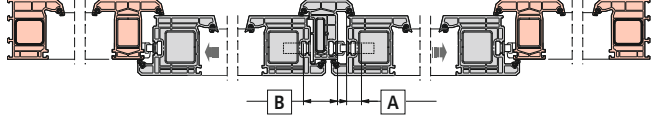


3.2 Diagram A

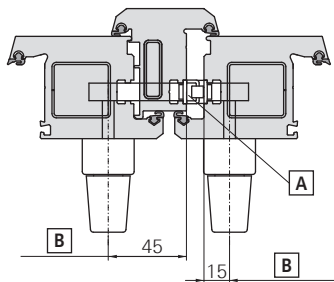
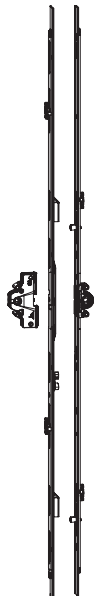
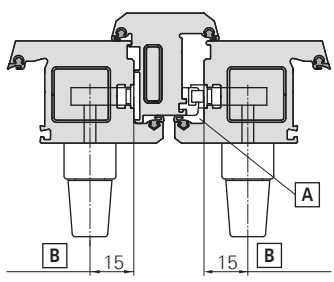

Combinations	Further description	
 <p>1 sliding sash (L or R) 1 fixed glazing element</p>	Diagram A	 <p>[A] = Backset (standard 15 mm)</p>
 <p>2 sliding sashes (L and R) with centre post 2 fixed glazing elements</p>	Diagram C	 <p>[A] = Backset (standard 15 mm)</p>
 <p>1 sliding sash (L or R) 1 frame, internal, flush with the wall</p>	Diagram B	 <p>[A] = Backset (standard 15 mm)</p>
 <p>1 sliding sash (L or R) 2 fixed glazing elements</p>	Diagram G	 <p>[A] = Backset (standard 15 mm)</p>
 <p>2 sliding sashes (L and R) 1 fixed glazing element</p>	Diagram K	 <p>[A] = Backset (standard 15 mm)</p>



3.3 Diagram C

Combinations	Further description	
 <p>2 sliding sashes (L and R) without centre post 2 fixed glazing elements</p>	<p>Diagram C</p>	 <p>[A] = Backset (standard 15 mm) [B] = Backset (standard 45 mm)</p>

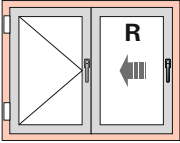
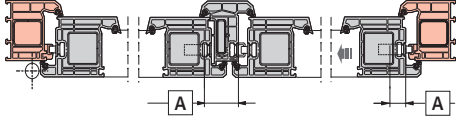
Deciding between two espagnolette systems:

Combinations	Espagnolettes	Drawing
<p>Opposite hardware groove</p>  <p>[A] Striker mounted on opposite espagnolette [B] Backset</p>	<p>On the floating mullion: espagnolette with welded-on striker On the locking side: espagnolette with cam</p>	 <p>Shown: BS 30 and BS 15 espagnolette</p>
<p>Concealed hardware groove</p>  <p>[A] Striker mounted on floating-mullion profile [B] Backset</p>	<p>On the floating mullion: espagnolette without striker or cam On the locking side: espagnolette with cam BS 15 espagnolette without cam not available for PS Air Com.</p>	 <p>Shown: BS 15 espagnolette</p>



3.4 Diagram D



Combinations	Previous description	
 <p>1 sliding sash (L or R) 1 Turn-Only sash (L or R) Bottom guide block, movable</p>	<p>Diagram D</p>	



INFO

Turn-Only sash (diagram D) can be opened for cleaning and maintenance work.

Roto Patio Alversa | KS

Diagram A	57
Diagram C with opposite hardware groove	60

Roto Patio Alversa | PS without / with night ventilation

Diagram A	63
Diagram C with opposite hardware groove	66

Roto Patio Alversa | PS Air

Diagram A	69
Diagram C with opposite hardware groove	72

Roto Patio Alversa | PS Air Com

Diagram A	75
Diagram C with opposite hardware groove	78

4 Hardware overviews

The hardware overviews on the following pages are a recommendation on the part of Roto Frank AG.

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

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

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

The actual composition of the hardware depends on:

- The height of the element
- The width of the element
- The weight of the element
- Security grade
- Profile system
- Variation



INFO Security grades

- Basic security (BSec) and security grade 1 (RC 1 N) are jointly mapped out in a single hardware overview. For a BSec hardware set, replace all security strikers with standard strikers.
- The RC 1 N, RC 2 and RC 2 N security grades refer to the entire system.
- The hardware combinations shown in the hardware overviews are recommendations.
- The hardware complies with the corresponding security grades in the required system tests.
- However, the security grades 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 strike plates must generally be used in systems with a 9 mm hardware axis.



INFO Variations

- The hardware overviews in diagram C only show the second opening sash in full. The full hardware overview of the cropped, first opening sash can be found in diagram A.

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

Recommended handles can be found in the handles catalogue.

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



INFO Roto Con Orders

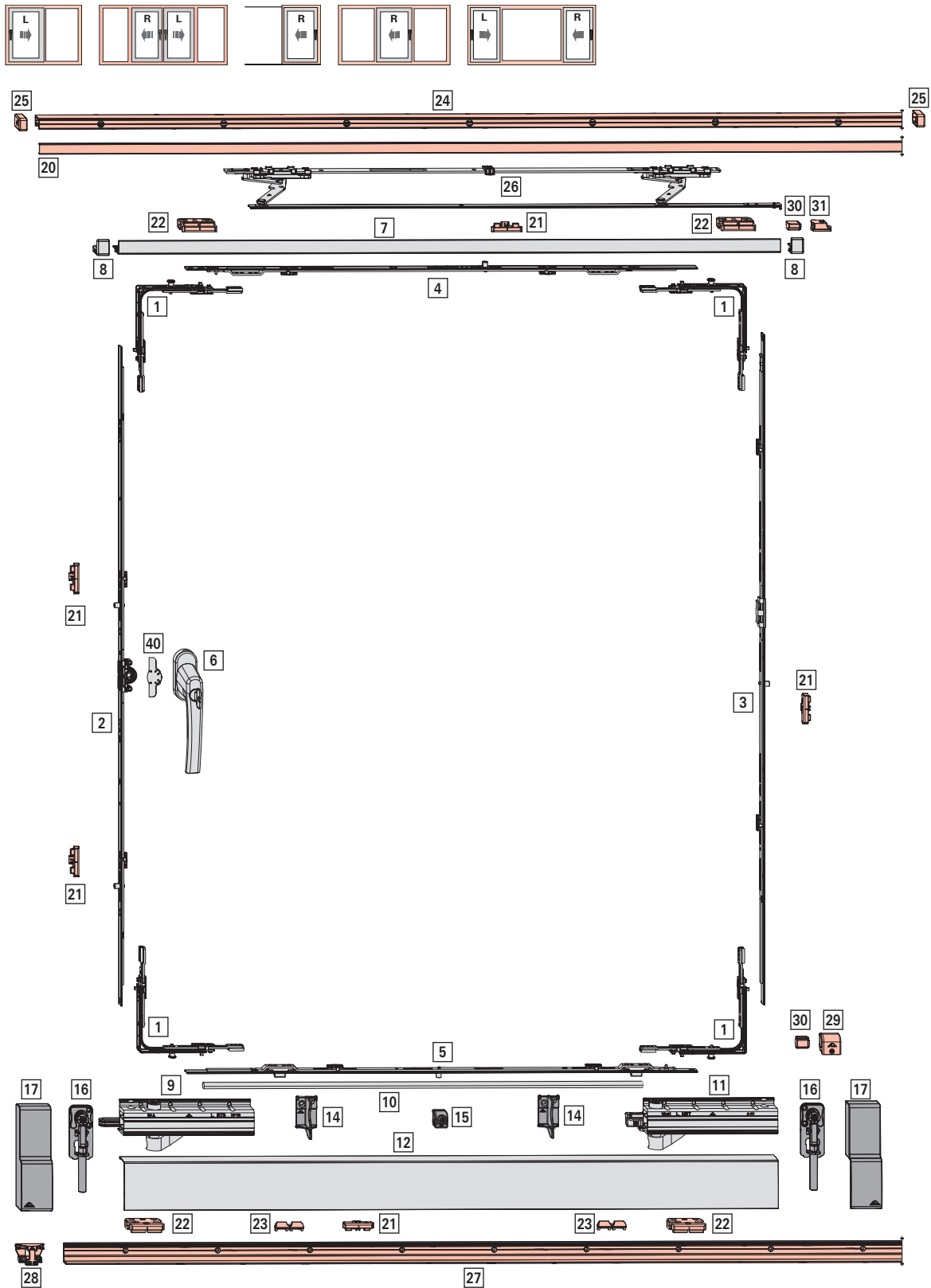
Efficient online hardware configurator for the custom configuration of individual window and door hardware components. All conventional shapes and opening types can be automatically configured quickly and easily. Individual parts lists, including application ranges and an exemplary hardware overview,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

www.roto-frank.com



4.1 Roto Patio Alversa | KS

4.1.1 Diagram A



Shown: 100 kg up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → <i>from page 130</i>	V	V	V
	Corner drive, Tilt&Turn ^[10]	V	V	V
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height → <i>from page 107</i>	E	E	V
	T&T espagnolette – centre lock for geared-handle	E	E	V
	Espagnolette faceplate – centred / variable handle height, second opening sash	■	■	Lock.
	Gearbox ^[11]	■	■	■
	Lock casing ^[12]	■	■	■
	T&T espagnolette, fixed handle height	E	E	V
	T&T espagnolette – vertical tilting	E	E	V
Centre locks				
[3]	Centre lock, vertical → <i>from page 122</i>	E	E	V
[4]	Centre lock, horizontal, without bullet catch → <i>from page 121</i>	E	E	V
[5]	Centre lock, horizontal, with bullet catch → <i>from page 120</i>	E	E	V
Frame components				
[21]	Striker, standard Timber → <i>from page 138</i> PVC → <i>from page 145</i>	■	■	–
[22]	Striker, security Timber → <i>from page 139</i> PVC → <i>from page 146</i>	–	■	■
[23]	Guide plate Timber → <i>from page 142</i> PVC → <i>from page 155</i>	■	■	■
Sliding scissor stay sets → <i>from page 94</i>				
[26]	Sliding scissor stay, Tilt&Slide	■	■	■
Bogie sets → <i>from page 86</i>				
[9]	Leading bogie	■	■	■
[11]	Trailing bogie	■	■	■
Reinforcement part sets ^[13] → <i>from page 88</i>				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → <i>from page 89</i>				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile ^[14]	■	■	■
[14]	Supporting piece ^[15]	■	■	■

[10] For espagnolettes, fixed handle height; at the bottom of the locking side

[11] For espagnolette faceplate – centred / variable handle height, second opening sash

[12] For espagnolette faceplate – centred / variable handle height, second opening sash

[13] > 100 kg

[14] Only up to 100 kg

[15] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[15]	Support block ^[16]	■	■	■
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



INFO

Can be tilted in horizontal handle position.



INFO

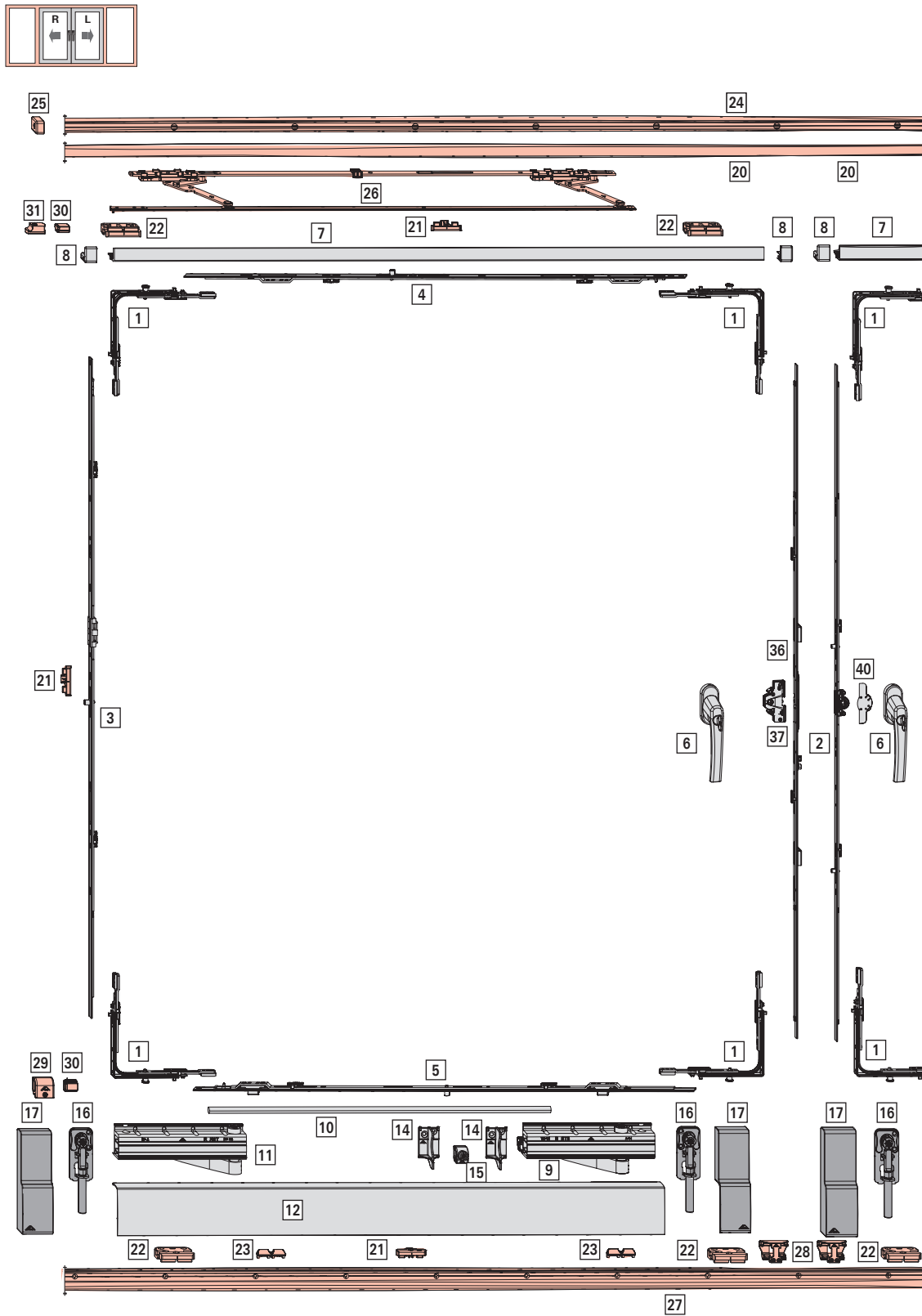
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[16] 1 unit from SRW > 1450 mm

4.1.2 Diagram C with opposite hardware groove



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height; T&T espagnolette, centred / variable handle height for second opening sash with welded-on striker



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
	Corner drive, Tilt&Turn ^[17]	V	V	V
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height → from page 107	E	E	V
	T&T espagnolette – vertical tilting	E	E	V
[36]	Espagnolette faceplate – centred / variable handle height, second opening sash → from page 110	■	■	Lock.
[37]	Gearbox ^[18] → from page 111	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, without bullet catch → from page 121	E	E	V
[5]	Centre lock, horizontal, with bullet catch → from page 120	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
[23]	Guide plate Timber → from page 142 PVC → from page 155	■	■	■
Sliding scissor stay sets → from page 94				
[26]	Sliding scissor stay, Tilt&Slide	■	■	■
Bogie sets → from page 86				
[9]	Leading bogie	■	■	■
[11]	Trailing bogie	■	■	■
Reinforcement part sets ^[19] → from page 88				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile ^[20]	■	■	■
[14]	Supporting piece ^[21]	■	■	■
[15]	Support block ^[22]	■	■	■
[20]	Guide track cover profile	■	■	■

[17] For T&T espagnolettes, fixed handle height; at the bottom of the locking side

[18] For espagnolette faceplate – centred / variable handle height, second opening sash

[19] > 100 kg

[20] Only up to 100 kg

[21] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm

[22] 1 unit from SRW > 1450 mm

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



INFO

Can be tilted in horizontal handle position.



INFO

Sash that opens first corresponds to diagram A

One side of the two-sashed element is only indicated in the figure. This side corresponds to the illustration in diagram A.



INFO

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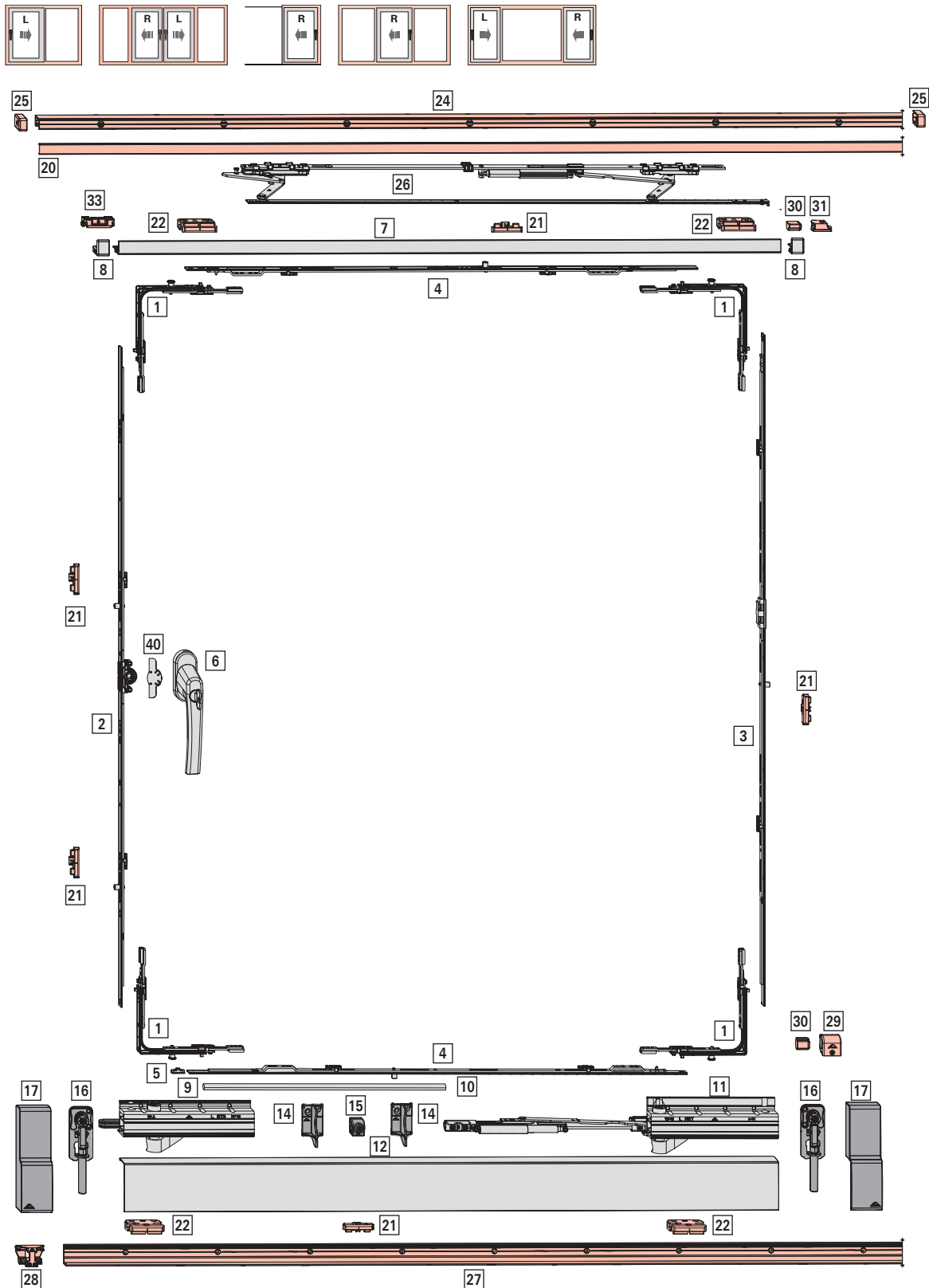
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4.2 Roto Patio Alversa | PS without / with night ventilation

4.2.1 Diagram A



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height; without night ventilation

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
[5]	Travel restrictor → from page 184	■	■	■
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height → from page 107	E	E	V
	T&T espagnolette – centre lock for geared-handle	E	E	V
	Espagnolette faceplate – centred / variable handle height, second opening sash	■	■	Lock.
	Gearbox [23]	■	■	■
	Lock casing [24]	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, without bullet catch → from page 121	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
	Night ventilation striker Timber PVC	■	■	■
Sliding scissor stay sets → from page 94				
[26]	Sliding scissor stay, Parallel Sliding, night ventilation with damping	■	■	■
[33]	Top guide block, fixed	■	■	■
Bogie sets				
≤ 160 kg → from page 86				
> 160 kg → from page 87				
[9]	Leading bogie [25]	■	■	■
	Leading tandem bogie [26]	■	■	■
[11]	Trailing bogie with damping [27]	■	■	■
	Trailing tandem bogie with damping [28]	■	■	■
Reinforcement part sets → from page 88				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■

[23] For espagnolette faceplate – centred / variable handle height, second opening sash

[24] For espagnolette faceplate – centred / variable handle height, second opening sash

[25] ≤ 160 kg

[26] > 160 kg

[27] ≤ 160 kg

[28] > 160 kg



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile	–	–	–
[14]	Supporting piece ^[29]	■	■	■
[15]	Support block ^[30]	■	■	■
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■

**INFO****Changes to Roto Patio Alversa | PS with night ventilation**

- Travel restrictor omitted.
- BSec / RC 1 N: night ventilation strikers opposite the cams on the corner drives.
- RC / RC 2 N (closed position): night ventilation strikers in every corner.
RC 2 N (night ventilation position): night ventilation strikers at all striker positions.

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

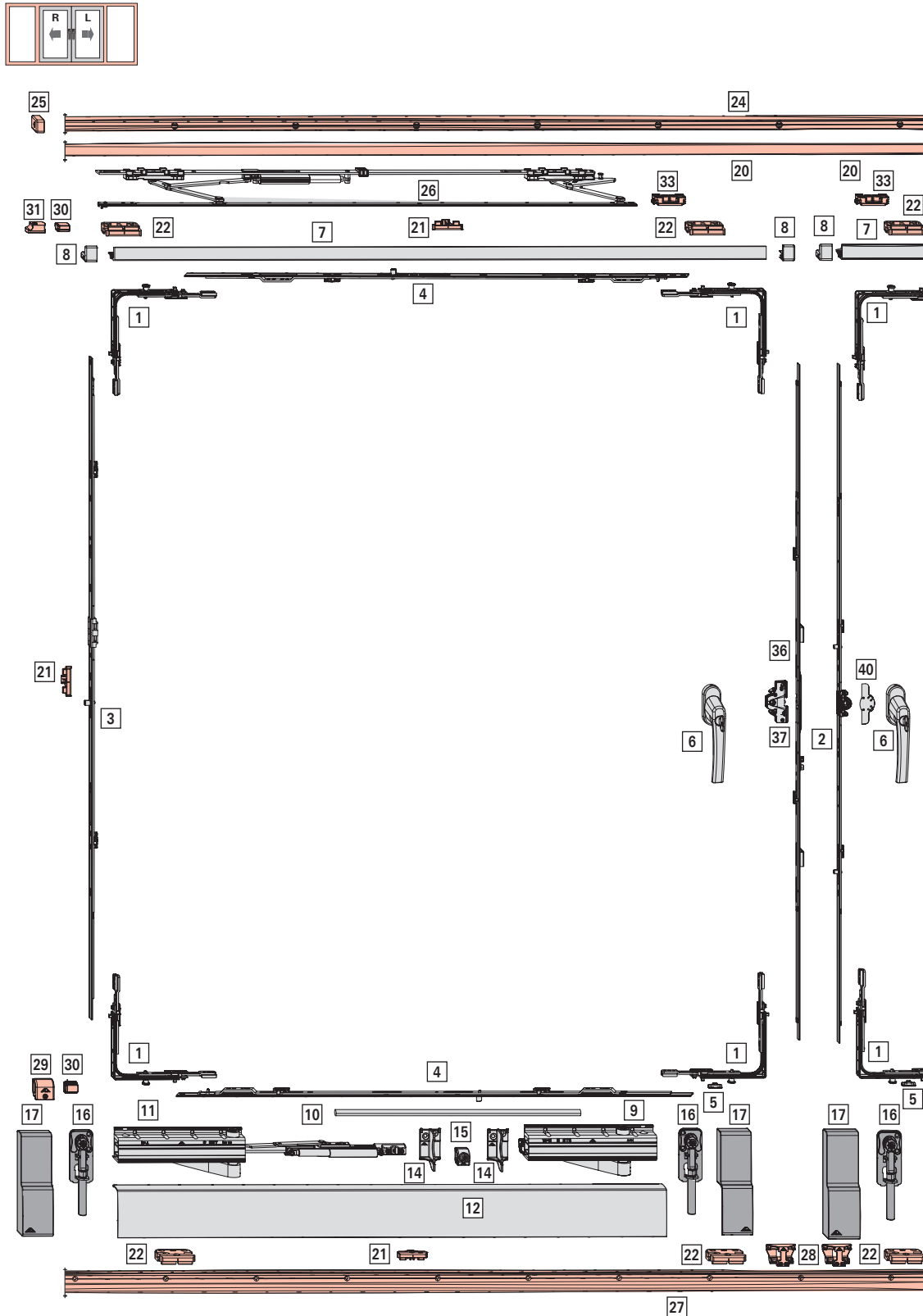
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[29] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm

[30] 1 unit from SRW > 1450 mm

4.2.2 Diagram C with opposite hardware groove



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height; T&T espagnolette, centred / variable handle height for second opening sash with welded-on striker; without night ventilation



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
[5]	Travel restrictor → from page 184	■	■	■
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height → from page 107	E	E	V
	T&T espagnolette, centred / variable handle height; lockable	E	E	–
[36]	Espagnolette faceplate – centred / variable handle height, second opening sash → from page 110	■	■	Lock.
[37]	Gearbox ^[31] → from page 111	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, without bullet catch → from page 121	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
	Night ventilation striker Timber PVC	■	■	■
Sliding scissor stay sets → from page 94				
[26]	Sliding scissor stay, Parallel Sliding, night ventilation with damping	■	■	■
[33]	Top guide block, fixed	■	■	■
Bogie sets ≤ 160 kg → from page 86 > 160 kg → from page 87				
[9]	Leading bogie ^[32]	■	■	■
	Leading tandem bogie ^[33]	■	■	■
[11]	Trailing bogie with damping ^[34]	■	■	■
	Trailing tandem bogie with damping ^[35]	■	■	■
Reinforcement part sets → from page 88				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile	–	–	–

[31] For espagnolette faceplate – centred / variable handle height, second opening sash

[32] ≤ 160 kg

[33] > 160 kg

[34] ≤ 160 kg

[35] > 160 kg

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[14]	Supporting piece ^[36]	■	■	■
[15]	Support block ^[37]	■	■	■
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



INFO

Changes to Roto Patio Alversa | PS with night ventilation

- Travel restrictor omitted on first opening sash.
- BSec / RC 1 N: night ventilation strikers opposite the cams on the corner drives on the first opening sash.
- RC 2 N (closed position): night ventilation strikers in every corner on the first opening sash.
RC 2 N (night ventilation position): night ventilation strikers at all striker positions on the first opening sash.



INFO

Sash that opens first corresponds to diagram A

One side of the two-sashed element is only indicated in the figure. This side corresponds to the illustration in diagram A.



INFO

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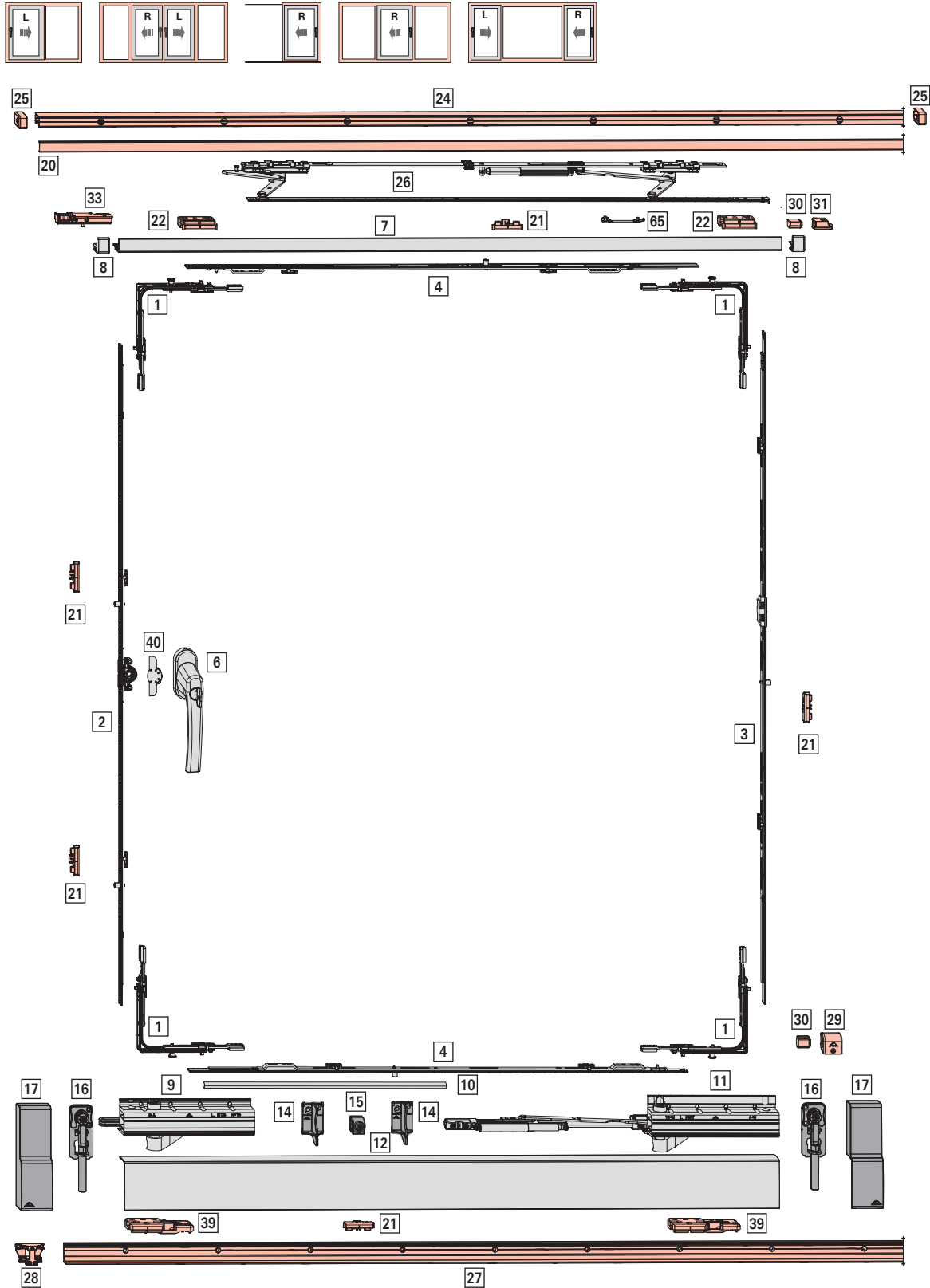
[36] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm

[37] 1 unit from SRW > 1450 mm



4.3 Roto Patio Alversa | PS Air

4.3.1 Diagram A



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height → from page 107	E	E	V
	T&T espagnolette – centre lock for geared-handle	E	E	V
	Espagnolette faceplate – centred / variable handle height, second opening sash	■	■	Lock.
	Gearbox [38]	■	■	■
	Lock casing [39]	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, without bullet catch → from page 121	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
[39]	Tilt strikers Timber → from page 141 PVC → from page 151	■	■	■
Sliding scissor stay sets → from page 95				
[26]	Sliding scissor stay, Parallel Sliding, tilt ventilation with damping	■	■	■
[33]	Top guide block, tiltable	■	■	■
[65]	Retrofit set for lock-in position [40]	■	■	■
Bogie sets ≤ 160 kg → from page 86				
[9]	Leading bogie [41]	■	■	■
[11]	Trailing bogie with damping [42]	■	■	■
Reinforcement part sets → from page 88				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile	–	–	–
[14]	Supporting piece [43]	■	■	■
[15]	Support block [44]	■	■	■

[38] For espagnolette faceplate – centred / variable handle height, second opening sash

[39] For espagnolette faceplate – centred / variable handle height, second opening sash

[40] Optional for S.kg > 80 kg

[41] ≤ 160 kg

[42] ≤ 160 kg

[43] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



INFO

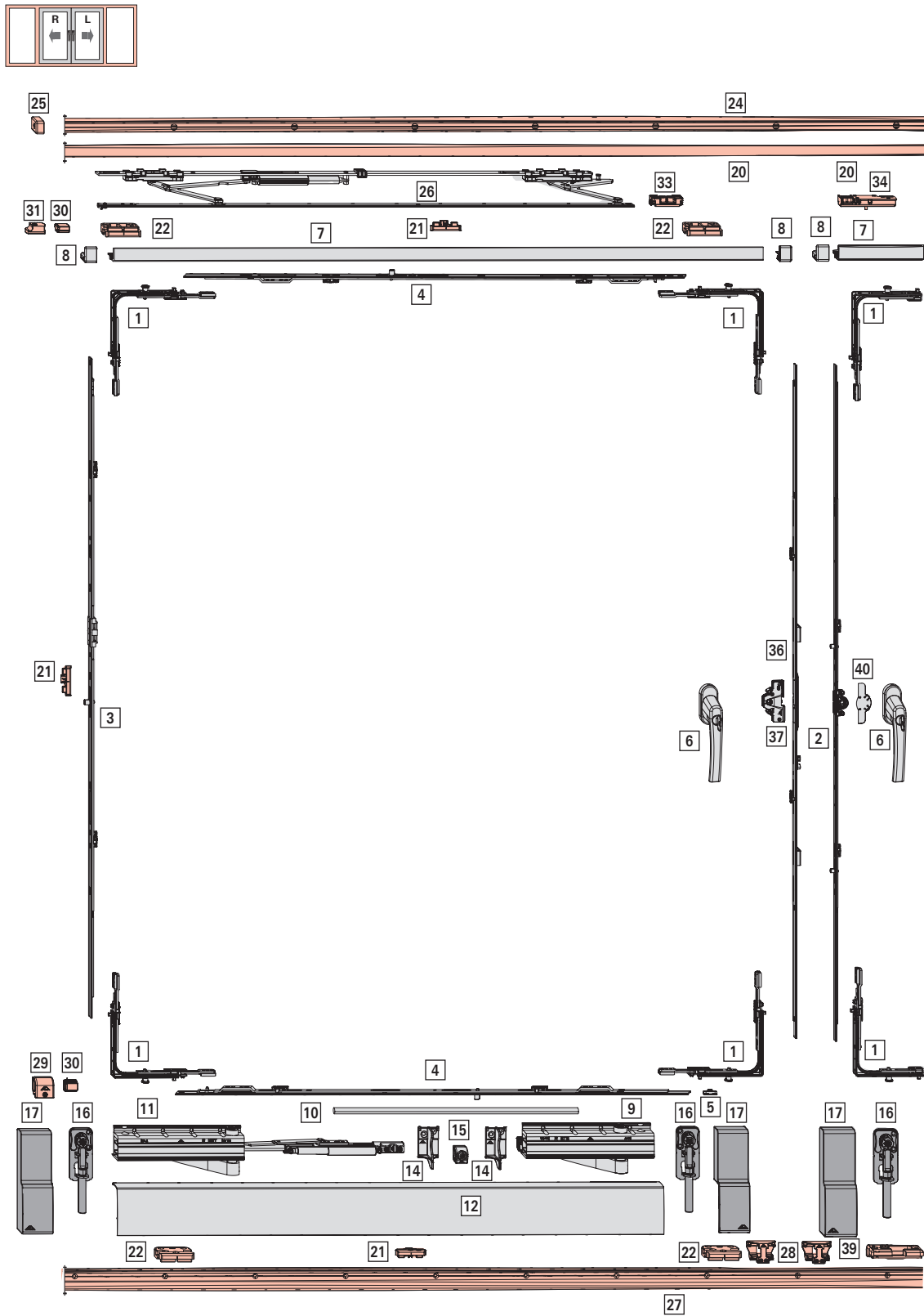
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[44] 1 unit from SRW > 1450 mm

4.3.2 Diagram C with opposite hardware groove



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height; T&T espagnolette, centred / variable handle height for second opening sash with welded-on striker



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
[5]	Travel restrictor → from page 184	■	■	■
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height → from page 107	E	E	V
	T&T espagnolette, centred / variable handle height, lockable	E	E	–
[36]	Espagnolette faceplate – centred / variable handle height, second opening sash → from page 110	■	■	Lock.
[37]	Gearbox ^[45] → from page 111	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, without bullet catch → from page 121	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
[39]	Tilt strikers Timber → from page 141 PVC → from page 151	■	■	■
Sliding scissor stay sets → from page 95				
[26]	Sliding scissor stay, Parallel Sliding, night ventilation with damping	■	■	■
	Sliding scissor stay, Parallel Sliding, tilt ventilation with damping	■	■	■
[33]	Top guide block, fixed	■	■	■
[34]	Top guide block, tiltable	■	■	■
	Retrofit set for lock-in position ^[46]	■	■	■
Bogie sets ≤ 160 kg → from page 86				
[9]	Leading bogie ^[47]	■	■	■
[11]	Trailing bogie with damping ^[48]	■	■	■
Reinforcement part sets → from page 88				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile	–	–	–
[14]	Supporting piece ^[49]	■	■	■

[45] For espagnolette faceplate – centred / variable handle height, second opening sash

[46] Optional for S.kg > 80 kg

[47] ≤ 160 kg

[48] ≤ 160 kg

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[15]	Support block ^[50]	■	■	■
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



INFO

Sash that opens first corresponds to diagram A

One side of the two-sashed element is only indicated in the figure. This side corresponds to the illustration in diagram A.



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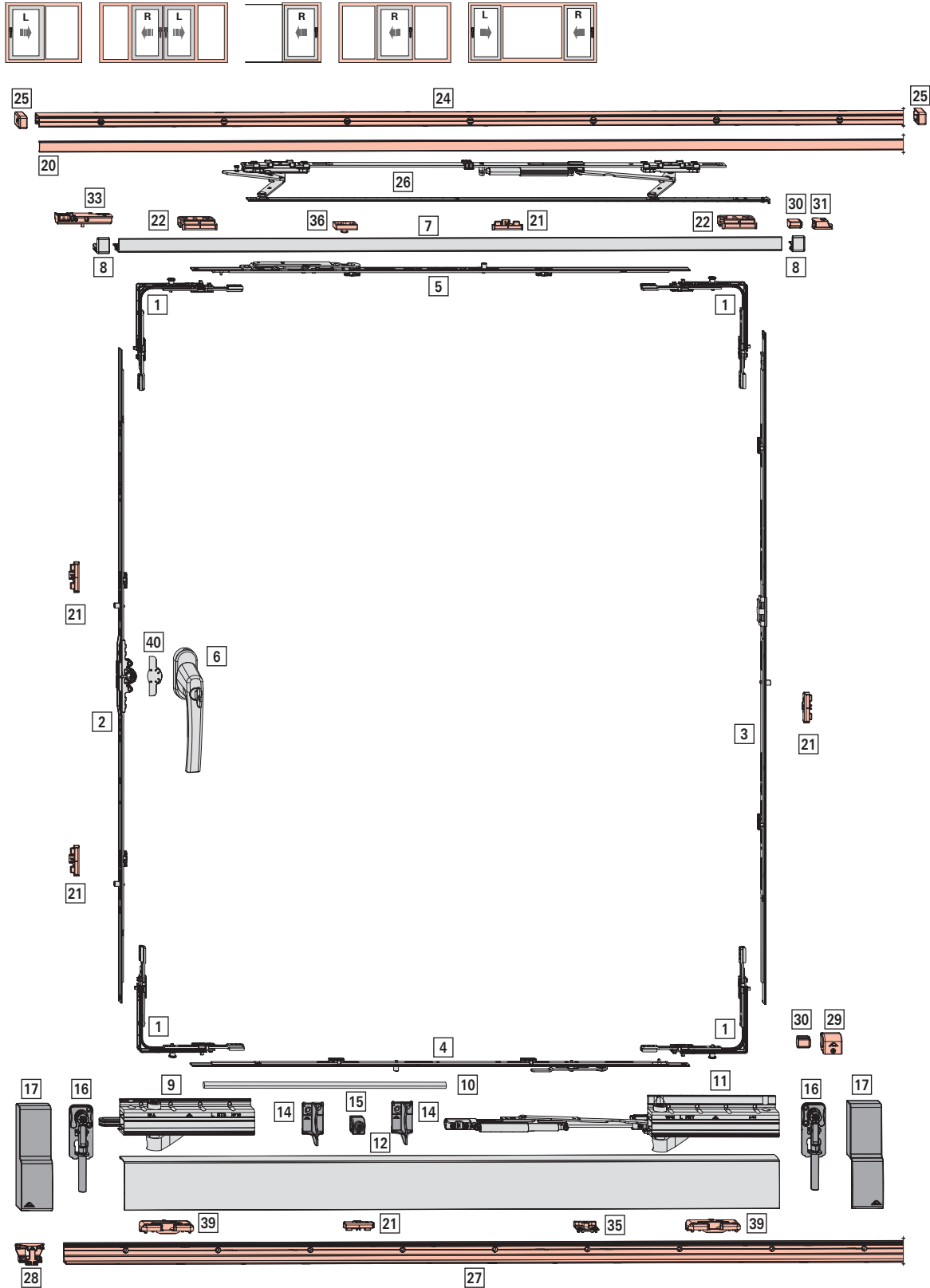
[49] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm

[50] 1 unit from SRW > 1450 mm



4.4 Roto Patio Alversa | PS Air Com

4.4.1 Diagram A



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height; with forcibly controlled tilt ventilation

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height, reinforced → from page 107	E	E	V
	T&T espagnolette – centre lock for geared-handle	E	E	V
	Espagnolette faceplate – centred / variable handle height, second opening sash	■	■	Lock.
	Gearbox ^[51]	■	■	■
	Lock casing ^[52]	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, with mishandling device → from page 97	E	E	V
[5]	Centre lock, horizontal, with comfort scissor stay → from page 97	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
[39]	Tilt strikers Timber → from page 141 PVC → from page 151	■	■	■
[35]	Frame component for mishandling device Timber → from page 143 PVC → from page 159	■	■	■
[36]	Frame component for comfort scissor stay Timber → from page 142 PVC → from page 157	■	■	■
Sliding scissor stay sets → from page 95				
[26]	Sliding scissor stay, Parallel Sliding, tilt ventilation with damping	■	■	■
[33]	Top guide block, tilttable	■	■	■
Bogie sets ≤ 160 kg → from page 86 > 160 kg → from page 87				
[9]	Leading bogie ^[53]	■	■	■
	Leading tandem bogie ^[54]	■	■	■
[11]	Trailing bogie with damping ^[55]	■	■	■
	Trailing tandem bogie with damping ^[56]	■	■	■
Reinforcement part sets → from page 88				

[51] For espagnolette faceplate – centred / variable handle height, second opening sash

[52] For espagnolette faceplate – centred / variable handle height, second opening sash

[53] ≤ 160 kg

[54] > 160 kg

[55] ≤ 160 kg

[56] > 160 kg



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile	–	–	–
[14]	Supporting piece ^[57]	■	■	■
[15]	Support block ^[58]	■	■	■
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



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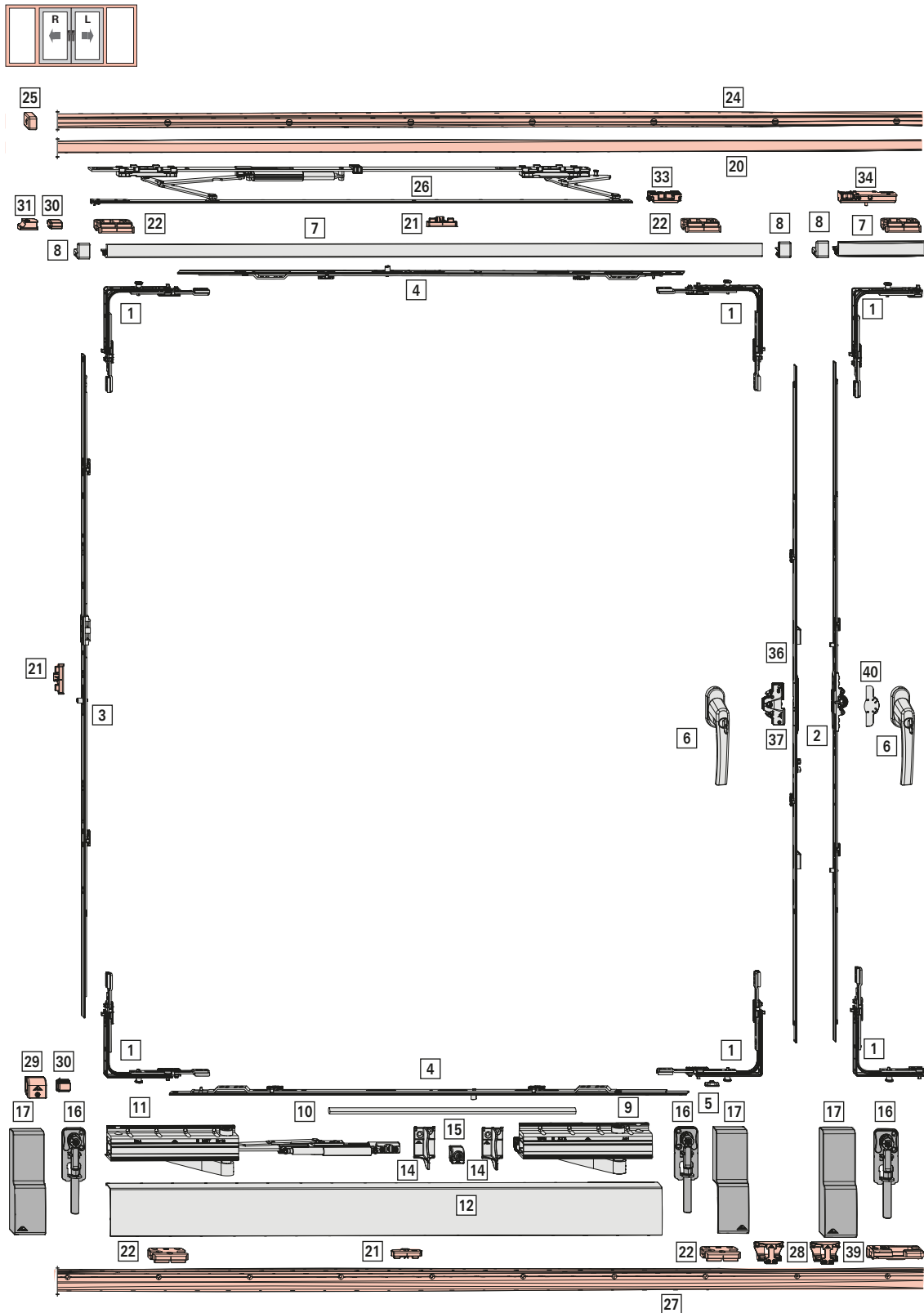
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[57] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm

[58] 1 unit from SRW > 1450 mm

4.4.2 Diagram C with opposite hardware groove



Shown: up to 160 kg; RC 1 N; SRW 1000; SRH 1300; T&T espagnolette, centred / variable handle height; T&T espagnolette, centred / variable handle height for second opening sash with welded-on striker; with forcibly controlled tilt ventilation



Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Corner drives				
[1]	Corner drive, standard → from page 130	V	V	V
[5]	Travel restrictor → from page 184	■	■	■
Espagnolettes				
[2]	T&T espagnolette, centred / variable handle height, reinforced → from page 107	E	E	V
	T&T espagnolette, centred / variable handle height, lockable	E	E	–
[36]	Espagnolette faceplate – centred / variable handle height, second opening sash → from page 110	■	■	Lock.
[37]	Gearbox ^[59] → from page 111	■	■	■
Centre locks				
[3]	Centre lock, vertical → from page 122	E	E	V
[4]	Centre lock, horizontal, without bullet catch → from page 121	E	E	V
	Centre lock, horizontal, with mishandling device	E	E	V
	Centre lock, horizontal, with comfort scissor stay	E	E	V
Frame components				
[21]	Striker, standard Timber → from page 138 PVC → from page 145	■	■	–
[22]	Striker, security Timber → from page 139 PVC → from page 146	–	■	■
[39]	Tilt strikers Timber → from page 141 PVC → from page 151	■	■	■
	Frame component for mishandling device Timber PVC	■	■	■
	Frame component for comfort scissor stay Timber PVC	■	■	■
Sliding scissor stay sets → from page 95				
[26]	Sliding scissor stay, Parallel Sliding, night ventilation with damping	■	■	■
	Sliding scissor stay, Parallel Sliding, tilt ventilation with damping	■	■	■
[33]	Top guide block, fixed	■	■	■
[34]	Top guide block, tiltable			
Bogie sets ≤ 160 kg → from page 86 > 160 kg → from page 87				
[9]	Leading bogie ^[60]	■	■	■
	Leading tandem bogie ^[61]	■	■	■
[11]	Trailing bogie with damping ^[62]	■	■	■
	Trailing tandem bogie with damping ^[63]	■	■	■

[59] For espagnolette faceplate – centred / variable handle height, second opening sash

[60] ≤ 160 kg

[61] > 160 kg

[62] ≤ 160 kg

[63] > 160 kg

Position	Description	BSec	RC 1 N	RC 2 / RC 2 N
Reinforcement part sets → from page 88				
[16]	Reinforcement part	■	■	■
[17]	Reinforcement part cover cap	■	■	■
Track sets → from page 89				
[7]	Retaining track	■	■	■
[8]	End cap for retaining track	■	■	■
[10]	Connecting rod	■	■	■
[12]	Bogie cover profile	■	■	■
	Cover cap for bogie cover profile	–	–	–
[14]	Supporting piece ^[64]	■	■	■
[15]	Support block ^[65]	■	■	■
[20]	Guide track cover profile	■	■	■
[24]	Guide track	■	■	■
[25]	End cap for guide track	■	■	■
[27]	Roller track	■	■	■
[28]	Guide block, bottom	■	■	■
[29]	Stop part, bottom	■	■	■
[30]	Rubber buffer stop part	■	■	■
[31]	Stop part, top	■	■	■
Handles				
[6]	Handle – See catalogue CTL_1	■	Lock.	Lock.
[40]	Drilling protection	–	■	■



INFO

Sash that opens first corresponds to diagram A

One side of the two-sashed element is only indicated in the figure. This side corresponds to the illustration in diagram A.



INFO

Roto Con Orders

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

www.roto-frank.com

[64] 1 unit from SRW > 900 mm; 2 units from SRW > 1450 mm

[65] 1 unit from SRW > 1450 mm







Bogie sets

Bogies up to 160 kg	86
Tandem bogies up to 200 kg	87

Reinforcement part sets

See page	88
----------	----

Track sets

Track set with retaining track 13	90
Track set with retaining track 20	92

Scissors-slider sets

Tilt&Slide	94
Parallel Sliding	94

Comfort sets

See page	97
----------	----

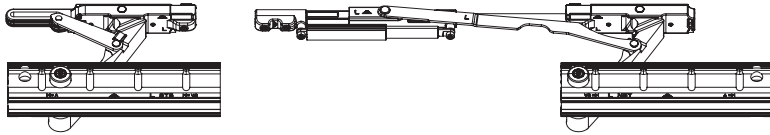
Guide block sets






See page	99
----------	----

5 Hardware sets

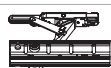

5.1 Bogie sets

5.1.1 Bgies up to 160 kg



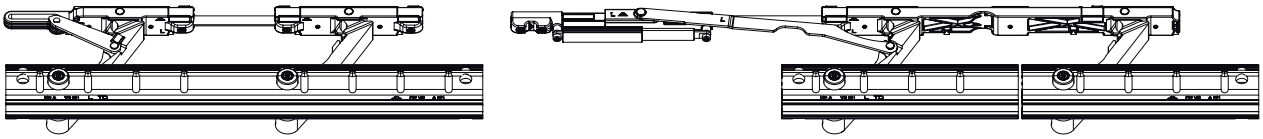
					Nº
Bogie set	max. 160 kg	Tilt&Slide	N	Left	799830
		Tilt&Slide	N	Right	799831
		Parallel Sliding	Y	Left	799832
		Parallel Sliding	Y	Right	799833

Contents

Figure	Quantity	Description
	1	Leading bogie
	1	Trailing bogie



5.1.2 Tandem bogies up to 200 kg



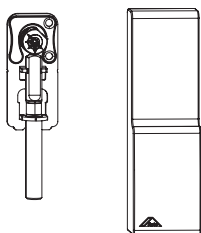
					Nº
Tandem bogie set	max. 200 kg	Parallel Sliding	Y	Left	799804
		Parallel Sliding	Y	Right	799895



Contents

Figure	Quantity	Description
	1	Leading tandem bogie
	1	Trailing tandem bogie

5.2 Reinforcement part sets



Reinforcement parts and cover caps	For sash weights > 100 kg	Parallel Sliding Tilt&Slide	R01.1	Natural silver	793508
			R04.4	Black brown	797514
			R05.3	Medium bronze	793509
			R05.4	Dark bronze	793510
			R05.5	Bronze	793511
			R06.2	Jet black	793512
			R07.2	Traffic white	793513
			R07.3	Cream	793514

Contents

Figure	Quantity	Description
	2	Reinforcement parts
	2	Cover caps



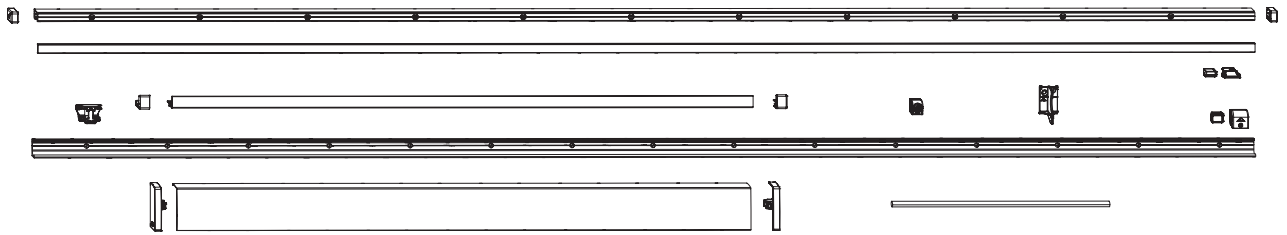
INFO

Using reinforcement parts

- **Tilt&Slide:** for sash weights > 100 kg
- **Parallel Sliding:** must always be used



5.3 Track sets







5.3.1 Track set with retaining track 13

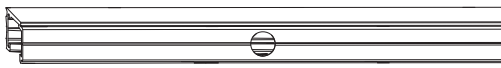







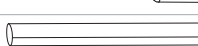

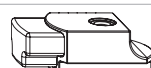



				Nº
R01.1	Natural silver	600 – 900	1930	766764
		901 – 1050	2230	766775
		1051 – 1250	2630	766777
		1251 – 1450	3030	766779
		1451 – 1650	3430	766780
		1651 – 2000	4130	769693
R04.4	Black brown	600 – 900	1930	796795
		901 – 1050	2230	796796
		1051 – 1250	2630	796797
		1251 – 1450	3030	796798
		1451 – 1650	3430	796799
		1651 – 2000	4130	796800
R05.3	Medium bronze	600 – 900	1930	766781
		901 – 1050	2230	766782
		1051 – 1250	2630	766784
		1251 – 1450	3030	766785
		1451 – 1650	3430	766786
		1651 – 2000	4130	769742
R05.4	Dark bronze	600 – 900	1930	766787
		901 – 1050	2230	766788
		1051 – 1250	2630	766789
		1251 – 1450	3030	766790
		1451 – 1650	3430	766791
		1651 – 2000	4130	769775
R05.5	Bronze	600 – 900	1930	769781
		901 – 1050	2230	769789
		1051 – 1250	2630	769794
		1251 – 1450	3030	769797
		1451 – 1650	3430	769798
		1651 – 2000	4130	769799
R06.2	Jet black	600 – 900	1930	780454
		901 – 1050	2230	780475
		1051 – 1250	2630	780476
		1251 – 1450	3030	780477
		1451 – 1650	3430	780478
		1651 – 2000	4130	780479
R07.2	Traffic white	600 – 900	1930	766792
		901 – 1050	2230	766793
		1051 – 1250	2630	766794
		1251 – 1450	3030	766795
		1451 – 1650	3430	766796
		1651 – 2000	4130	769807





				Nº
R07.3	Cream	600 – 900	1930	766797
		901 – 1050	2230	766798
		1051 – 1250	2630	766799
		1251 – 1450	3030	766800
		1451 – 1650	3430	766801
		1651 – 2000	4130	769813

Contents

Figure	Quantity	Description
	1	Guide track
	1	Guide track cover profile
	2	End caps for guide track
	1	Roller track
	1	Bogie cover profile
	2	Cover caps for bogie cover profile
	1	Retaining track 13
	2	End caps for retaining track
	1	Connecting rod
	1	Guide block, bottom
	1	Stop part, top
	1	Stop part, bottom
	0 [66] 1 [67]	Support block
	1 [68] 2 [69]	Supporting piece

[66] With SRW ≤ 1450 mm

[67] With SRW > 1450 mm





[68] With SRW ≤ 1450 mm

[69] With SRW > 1450 mm

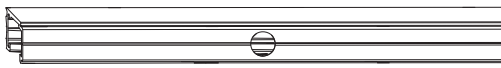





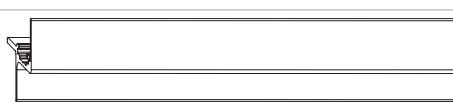



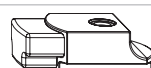



5.3.2 Track set with retaining track 20

				N ^o
R01.1	Natural silver	600 – 900	1930	796939
		901 – 1050	2230	797006
		1051 – 1250	2630	797007
		1251 – 1450	3030	797008
		1451 – 1650	3430	797010
		1651 – 2000	4130	797009
R04.4	Black brown	600 – 900	1930	797093
		901 – 1050	2230	797094
		1051 – 1250	2630	797105
		1251 – 1450	3030	797106
		1451 – 1650	3430	797107
		1651 – 2000	4130	797108
R05.3	Medium bronze	600 – 900	1930	797011
		901 – 1050	2230	797012
		1051 – 1250	2630	797013
		1251 – 1450	3030	797014
		1451 – 1650	3430	797091
		1651 – 2000	4130	797092
R05.4	Dark bronze	600 – 900	1930	797109
		901 – 1050	2230	797130
		1051 – 1250	2630	797131
		1251 – 1450	3030	797132
		1451 – 1650	3430	797133
		1651 – 2000	4130	797134
R05.5	Bronze	600 – 900	1930	797377
		901 – 1050	2230	797378
		1051 – 1250	2630	797379
		1251 – 1450	3030	797380
		1451 – 1650	3430	797381
		1651 – 2000	4130	797382
R06.2	Jet black	600 – 900	1930	797419
		901 – 1050	2230	797420
		1051 – 1250	2630	797421
		1251 – 1450	3030	797422
		1451 – 1650	3430	797423
		1651 – 2000	4130	797424
R07.2	Traffic white	600 – 900	1930	797383
		901 – 1050	2230	797408
		1051 – 1250	2630	797409
		1251 – 1450	3030	797410
		1451 – 1650	3430	797411
		1651 – 2000	4130	797412



				N ^o
R07.3	Cream	600 – 900	1930	797413
		901 – 1050	2230	797414
		1051 – 1250	2630	797415
		1251 – 1450	3030	797416
		1451 – 1650	3430	797417
		1651 – 2000	4130	797418

Contents

Figure	Quantity	Description
	1	Guide track
	1	Guide track cover profile
	2	End caps for guide track
	1	Roller track
	1	Bogie cover profile
	2	Cover caps for bogie cover profile
	1	Retaining track 20
	2	End caps for retaining track
	1	Connecting rod
	1	Guide block, bottom
	1	Stop part, top
	1	Stop part, bottom
	0 [70] 1 [71]	Support block
	1 [72] 2 [73]	Supporting piece

[70] With SRW ≤ 1450 mm

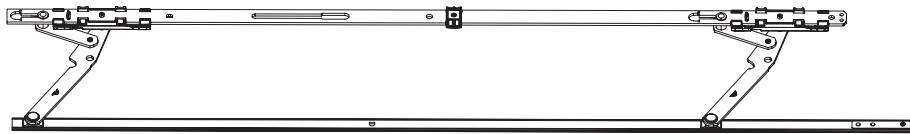
[71] With SRW > 1450 mm





[72] With SRW ≤ 1450 mm

[73] With SRW > 1450 mm

5.4 Scissors-slider sets

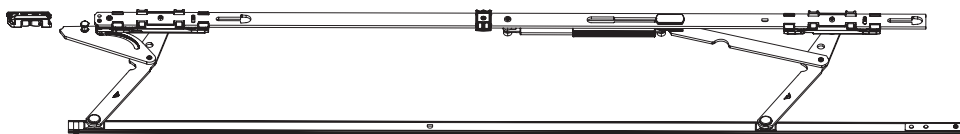
5.4.1 Tilt&Slide







				Nº
Tilt&Slide	600 – 900	N	–	810456
	901 – 1250	N	–	810457
	1251 – 1650	N	–	810458

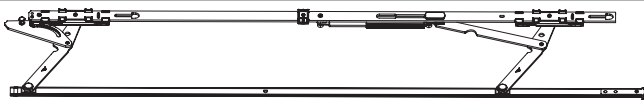
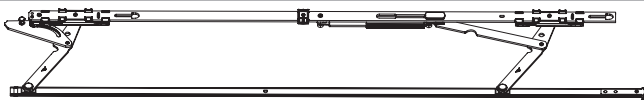

5.4.2 Parallel Sliding

5.4.2.1 Night ventilation



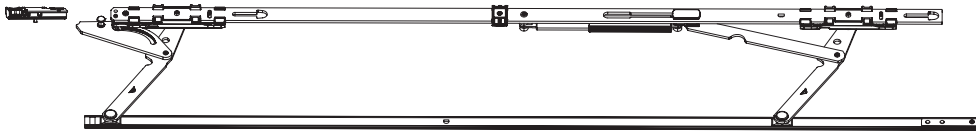
				Nº
Parallel Sliding	720 – 900	Y	Left	772220
		Y	Right	772225
	901 – 1250	Y	Left	772221
		Y	Right	772226
	1251 – 1650	Y	Left	772222
		Y	Right	772227
	1651 – 2000	Y	Left	772223
		Y	Right	772228





Contents

	Figure	Quantity	Description
		1	Sliding scissor stay, Parallel Sliding, night ventilation
		1	Top guide block, fixed




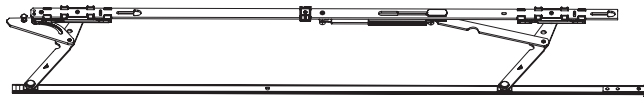
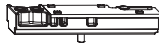
5.4.2.2 Tilt ventilation



				Nº
Parallel Sliding	720 – 900	Y	Left	808816
		Y	Right	808827
	901 – 1250	Y	Left	808824
		Y	Right	808828
	1251 – 1650	Y	Left	808825
		Y	Right	808829
	1651 – 2000	Y	Left	808826
		Y	Right	808830



Contents

	Quantity	Description
	1	Sliding scissor stay, Parallel Sliding, tilt ventilation
	1	Top guide block, tiltable

Retrofit sets




INFO

Retrofit sets can only be used in tilt ventilation sliding scissor stay sets.

Retrofit set for lock-in position





	Nº
Retrofit set for lock-in position	807166



INFO

Optional for S.kg > 80 kg.
To assist the lock-in function.

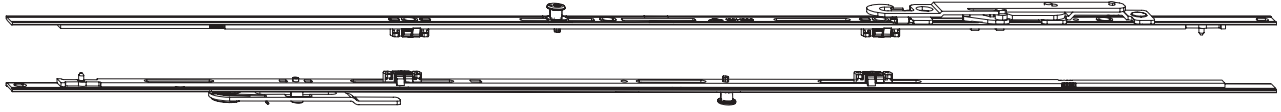
Contents








Figure	Quantity	Description
	1	Leaf spring
	1	Catch cam
Not sh.	1	Flat-headed screw (not shown)








5.5 Comfort sets



							N ^o
Basic security RC 1 N RC 2 RC 2 N	600 – 800	590	200	–	–	Left	772309
			200	–	–	Right	772310
Basic security RC 1 N	801 – 1000	790	200	1	E	Left	772311
			200	1	E	Right	772312
	1001 – 1200	990	200	1	E	Left	772313
			200	1	E	Right	772314
	1201 – 1400	1190	200	1	E	Left	773386
			200	1	E	Right	773388
	1401 – 1650	1440	250	1	E	Left	773389
			250	1	E	Right	773390
RC 2 RC 2 N	801 – 1000	790	200	1	V	Left	776884
			200	1	V	Right	776915
	1001 – 1200	990	200	1	V	Left	776916
			200	1	V	Right	776917
	1201 – 1400	1190	200	1	V	Left	776918
			200	1	V	Right	776919
	1401 – 1650	1440	250	1	V	Left	776920
			250	1	V	Right	776921



Contents

	Figure	Quantity	Description
		1	Centre lock, horizontal, top, with comfort scissor stay(s)
		1	Centre lock, horizontal, bottom, with mishandling device

For suitable frame components for timber, refer to → *from page 142*




For suitable frame components for PVC, refer to → *from page 157*





INFO

From SRW 1201, two comfort scissor stays are mounted on the horizontal centre lock component at the top. One frame component is required for each comfort scissor stay.

Connector components

		
Basic security RC 1 N	1651 – 1850	200
	1851 – 2000	400

		
RC 2	1651 – 1850	200
RC 2 N	1851 – 2000	400

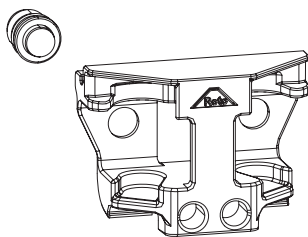
For suitable connector components, refer to *Multipart centre locks* → *from page 123*





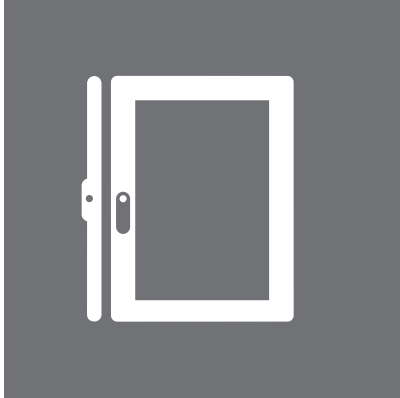
5.6 Guide block sets

For diagram D



				Nº
Movable bottom guide block and retaining pin	For diagram D	Roto Sil	1 Piece	809477
		Black	1 Piece	809478

Figure	Quantity	Description
	1	Bottom guide block, movable
	2	Retaining pin





T&T espagnolettes

Backset 15 mm	104
Backset 25, 30, 35, 40, 45, 50 mm	109

T&T espagnolettes – Special solutions

T&T espagnolette – Centre locks for geared-handle	113
T&T espagnolette – Vertical-Tilter	114

6 Espagnolettes

6.1 T&T espagnolettes

6.1.1 Backset 15 mm

6.1.1.1 Fixed handle height

Standard



15					#		Nº	
601 – 800	690	200	263	–	–	259831		
	690	200	263	1	E	259833		
801 – 1000	890	200	413	–	–	259834		
	890	200	413	1	E	259836		
1001 – 1200	1090	200	513	–	–	256111		
	1090	200	513	1	E	259838		
1201 – 1400	1290	200	563	–	–	256112		
	1290	200	563	1	E	259840		
1401 – 1600	1490	200	563	–	–	256113		
	1490	200	563	2	E	259843		
1601 – 1800	1690	200	563	–	–	256114		
	1690	200	1000	–	–	256115		
	1690	200	563	2	E	259846		
	1690	200	1000	2	E	794035		
1801 – 2000	1890	200	1000	–	–	256116		
	1890	200	1000	2	E	794036		
2001 – 2200	2090	200	1000	–	–	256117		
	2090	200	1000	3	E	794038		
2201 – 2400	2290	200	1000	–	–	256118		
	2290	200	1000	3	E	794040		



INFO

From SRH 2401 mm, multipart centre lock (200 mm) required. → *from page 123*

From SRH 2601 mm, multipart centre lock (400 mm) required. → *from page 123*



Reinforced



								Nº
15	1801 – 2000	1780	200	1000	2	E	797504	
	2001 – 2200	2180	200	1000	4	E	797502	



INFO

Roto Patio Alversa | PS: SRH 1801 - 2400 mm



INFO

From SRH 2201 mm, multipart centre lock (200 mm) required. → *from page 123*



6.1.1.2 Fixed handle height – security

Standard



15	600 – 800	690	200	263	1	V	259832	
	801 – 1000	890	200	413	2	V	259835	
	1001 – 1200	1090	200	513	2	V	259837	
	1201 – 1400	1290	200	563	2	V	259839	
	1401 – 1600	1490	200	563	3	V	259841	
	1601 – 1800	1690	200	563	3	V	259844	
	1601 – 1800	1690	200	1000	3	V	794041	
	1801 – 2000	1890	200	1000	3	V	794042	
	2001 – 2200	2090	200	1000	4	V	794043	
	2201 – 2400	2290	200	1000	4	V	794044	



INFO

From SRH 2401 mm, multipart centre lock (200 mm) required. → *from page 123*

From SRH 2601 mm, multipart centre lock (400 mm) required. → *from page 123*

Reinforced



15	1801 – 2000	1780	200	1000	2	V	797829
	2001 – 2200	2180	200	1000	4	V	797830



INFO

Roto Patio Alversa | PS: SRH 1801 - 2400 mm



INFO

From SRH 2201 mm, multipart centre lock (200 mm) required. → *from page 123*



6.1.1.3 Centred / variable handle height

Standard



							Nº
15	451 – 620	400	85 / 85	225 - 310	–	–	259718
	621 – 800	580	90 / 90	311 - 400	–	–	289862
		580	90 / 90	311 - 400	1	E	259719
	801 – 1200	980	200 / 200	401 - 600	–	–	289863
		980	200 / 200	401 - 600	1	E	259720
	1201 – 1600	1380	200 / 200	601 - 800	–	–	289864
		1380	200 / 200	601 - 800	2	E	259721
	1601 – 2000	1780	200 / 200	801 - 1000	–	–	289865
		1780	200 / 200	801 - 1000	2	E	795389
	2001 – 2400	2180	200 / 200	1001 - 1200	–	–	289866
2180		200 / 200	1001 - 1200	4	E	795392	



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*

Reinforced



							Nº
15	801 – 1200	980	200 / 200	401 - 600	1	E	774182
	1201 – 1600	1380	200 / 200	601 - 800	2	E	774183
	1601 – 2000	1780	200 / 200	801 - 1000	2	E	774184
	2001 – 2400	2180	200 / 200	1001 - 1200	4	E	774185



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*

6.1.1.4 Centred / variable handle height – security

Standard



								N ^o
15	540 – 620	515	90 / 90	226 - 315	Variable	1	V	566500
	621 – 800	580			Centred / variable	1	V	355743
	801 – 1200	980	200 / 200	401 - 600	Centred / variable	1	V	355744
	1201 – 1600	1380		601 - 800	Centred / variable	2	V	355745
	1601 – 2000	1780		801 - 1000	Centred / variable	2	V	795390
	2001 – 2400	2180		1001 - 1200	Centred / variable	4	V	795393



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*

Reinforced



							N ^o
15	801 – 1200	980	200 / 200	401 - 600	1	V	774186
	1201 – 1600	1380	200 / 200	601 - 800	2	V	774187
	1601 – 2000	1780	200 / 200	801 - 1000	2	V	774188
	2001 – 2400	2180	200 / 200	1001 - 1200	4	V	774189



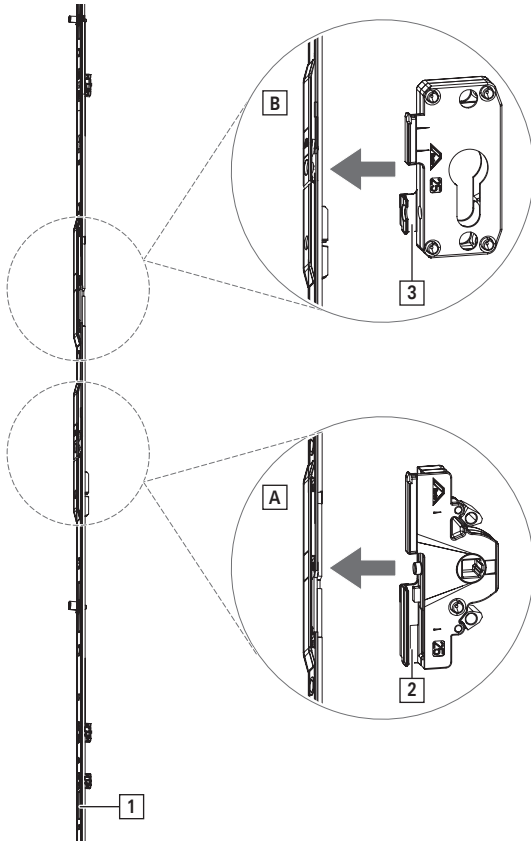
INFO


From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*



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

6.1.2.1 Configuration



Assignment	Meaning
[1]	Espagnolette faceplate – centred / variable handle height → <i>from page 110</i>
[2]	Gearbox → <i>from page 111</i>
[3]	Lock casing – profile cylinder → <i>from page 112</i> Lock casing – round cylinder (not sh.) → <i>from page 112</i>
	<p>INFO</p> <p> Only use lock casing with lockable espagnolette faceplate. → 6.1.2.3 “Espagnolette faceplate – centred / variable handle height, lockable” <i>from page 111</i></p>
[A]	Gearbox which can be installed in the espagnolette faceplate
[B]	Lock casing which can be installed in the espagnolette faceplate

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

Concealed hardware groove



							N ^o
1601 – 2000	1780	200 / 200	801 - 1000	–	–	–	807010
2001 – 2400	2180	200 / 200	1001 - 1200	–	–	–	795366

Compatible gearboxes → *from page 111*



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*



INFO

For Alversa can only be used without lock casing.

Opposite hardware groove



							N ^o
801 – 1200	980	200 / 200	401 - 600	1		Roto Sil	788319
1201 – 1600	1380	200 / 200	601 - 800	2		Roto Sil	788321
1601 – 2000	1780	200 / 200	801 - 1000	2		Roto Sil	788323
2001 – 2400	2180	200 / 200	1001 - 1200	4		Roto Sil	788325

Compatible gearboxes → *from page 111*



INFO

From SRH 2201 mm, multipart centre lock (200 mm) required. → *from page 123*



6.1.2.3 Espagnolette faceplate – centred / variable handle height, lockable



							Nº
Basic security	1601 – 2000	1780	200 / 200	801 - 1000	2	E	806979
	2001 – 2400	2180	200 / 200	1001 - 1200	4	E	806980

Compatible gearboxes → *from page 111*

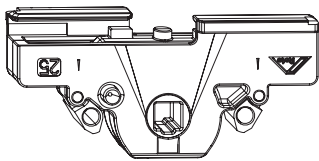
Compatible lock casings → *112*



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*

6.1.2.4 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

Espagnolettes

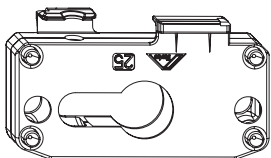
T&T espagnolettes

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

6.1.2.5 Lock casing

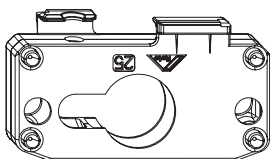


Profile cylinders



			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



6.2 T&T espagnolettes – Special solutions

6.2.1 T&T espagnolette – Centre locks for geared-handle

6.2.1.1 Centred / variable handle height



							N ^o
-	801 – 1200	980	200 / 200	401 - 600	1	E	778275
	1201 – 1600	1380	200 / 200	601 - 800	2	E	774288
	1601 – 2000	1780	200 / 200	801 - 1000	2	E	774289
	2001 – 2400	2180	200 / 200	1001 - 1200	4	E	774290



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*



INFO

The matching geared-handles can be found in the catalogue entitled “Roto Handles – Operation mechanisms catalogue for PVC, timber and aluminium” (CTL_1).

6.2.1.2 Centred / variable handle height – Security



							N ^o
-	1601 – 2000	1780	200 / 200	801 - 1000	2	V	774291
	2001 – 2400	2180	200 / 200	1001 - 1200	4	V	774292



INFO

From SRH 2401 mm, 2x multipart centre lock (200 mm) required. → *from page 123*

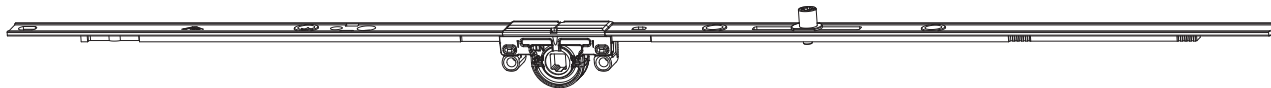


INFO

The matching geared-handles can be found in the catalogue entitled “Roto Handles – Operation mechanisms catalogue for PVC, timber and aluminium” (CTL_1).

6.2.2 T&T espagnolette – Vertical-Tilter

6.2.2.1 Fixed handle height



15	601 – 800	690	200	263	- / -	- / -	619591	
	801 – 1000	890	200	413	1 / -	E / -	619592	
	1001 – 1200	1090	200	513	1 / -	E / -	619593	
	1201 – 1400	1290	200	563	1 / -	E / -	619594	
	1401 – 1600	1490	200	563	2 / -	E / -	619595	
	1601 – 1800	1690	200	563	2 / -	E / -	619596	
		1690	200	1000	2 / -	E / -	794636	
	1801 – 2000	1890	200	1000	2 / -	E / -	794637	
	2001 – 2200	2090	200	1000	3 / -	E / -	794638	
2201 – 2400	2290	200	1000	3 / -	E / -	794639		



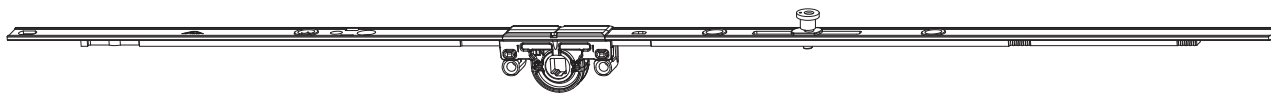
INFO

From SRH 2401 mm, multipart centre lock (200 mm) required. → *from page 123*

From SRH 2601 mm, multipart centre lock (400 mm) required. → *from page 123*



6.2.2.2 Fixed handle height – security



							Nº
15	801 – 1000	890	200	413	1 / –	V / –	626542
	1001 – 1200	1090	200	513	1 / –	V / –	626543
	1201 – 1400	1290	200	563	1 / –	V / –	626544
	1401 – 1600	1490	200	563	2 / –	V / –	626575
	1601 – 1800	1690	200	563	2 / –	V / –	626576
			200	1000	2 / –	V / –	794640
	1801 – 2000	1890	200	1000	2 / –	V / –	794641
	2001 – 2200	2090	200	1000	3 / –	V / –	794642
	2201 – 2400	2290	200	1000	3 / –	V / –	794643



INFO

From SRH 2401 mm, multipart centre lock (200 mm) required. → *from page 123*
 From SRH 2601 mm, multipart centre lock (400 mm) required. → *from page 123*





Horizontal

With bullet catch	120
Without bullet catch	121

Vertical

See page	122
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Multipart

See page	123
----------	-----

Floating mullion

See page	124
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7 Centre locks

7.1 Horizontal

7.1.1 With bullet catch



										N ^o
Tilt&Slide	Bottom	Basic security RC 1 N RC 2 RC 2 N	600 – 800	590	200	–	–	Left	772801	
				590	200	–	–	Right	786296	
	Bottom	Basic security RC 1 N	801 – 1000	790	200	1	E	Left	772802	
				790	200	1	E	Right	786297	
			1001 – 1200	990	200	1	E	Left	772803	
				990	200	1	E	Right	786298	
			1201 – 1400	1190	200	1	E	Left	772804	
				1190	200	1	E	Right	786299	
			1401 – 1650	1440	250	1	E	Left	772875	
				1440	250	1	E	Right	786300	
			RC 2 RC 2 N	801 – 1000	790	200	1	V	Left	772876
					790	200	1	V	Right	786301
			1001 – 1200	990	200	1	V	Left	772877	
				990	200	1	V	Right	786302	
			1201 – 1400	1190	200	1	V	Left	772878	
				1190	200	1	V	Right	786303	
1401 – 1650	1440	250	1	V	Left	772879				
	1440	250	1	V	Right	786304				



7.1.2 Without bullet catch



								N ^o
Parallel Sliding Tilt&Slide	Top Bottom	Basic security RC 1 N RC 2 RC 2 N	600 – 800	590	200	-	-	603442
			Basic security RC 1 N	801 – 1000	790	200	1	E
		1001 – 1200		990	200	1	E	603447
		1201 – 1400		1190	200	1	E	603462
		1401 – 1650		1440	250	1	E	603466
		RC 2 RC 2 N	801 – 1000	790	200	1	V	603472
			1001 – 1200	990	200	1	V	603473
			1201 – 1400	1190	200	1	V	603474
			1401 – 1650	1440	250	1	V	603475



INFO

Application position of centre locks

- **Top:** Roto Patio Alversa | KS
- **Top / bottom:** Roto Patio Alversa | PS & PS Air or Roto Patio Alversa | PS Air Com for second opening sash



INFO

For suitable centre locks for Patio Alversa | PS Air Com, refer to → *from page 97*

Connector components

Basic security	1651 – 1850	200
	1851 – 2000	400
RC 2 RC 2 N	1651 – 1850	200
	1851 – 2000	400

For suitable connector components, refer to *Multipart centre locks* → *from page 123*

7.2 Vertical



							N ^o
Parallel Sliding Tilt&Slide	Basic security RC 1 N RC 2 RC 2 N	600 – 800	690	200	-	-	774165
		Basic security RC 1 N	801 – 1000	890	200	1	E
	1001 – 1200		1090	200	1	E	774175
	1201 – 1400		1290	200	1	E	774176
	1401 – 1600		1490	200	2	E	774177
	1601 – 1800		1690	200	2	E	774178
	1801 – 2000		1890	200	2	E	774179
	2001 – 2200		2090	200	3	E	774180
	2201 – 2400	2290	200	3	E	774181	
	RC 2 RC 2 N	801 – 1000	890	200	1	V	774167
		1001 – 1200	1090	200	1	V	774168
		1201 – 1400	1290	200	1	V	774169
		1401 – 1600	1490	200	2	V	774170
		1601 – 1800	1690	200	2	V	774171
		1801 – 2000	1890	200	2	V	773124
		2001 – 2200	2090	200	3	V	774172
	2201 – 2400	2290	200	3	V	774173	

Connector components





Basic security	2401 – 2600	200
	2601 – 2700	400
RC 2 RC 2 N	2401 – 2600	200
	2601 – 2700	400

For suitable connector components, refer to *Multipart centre locks* → *from page 123*



7.3 Multipart






				Nº
Basic security RC 1 N	200	1	E	450821
	400	1	E	280346
RC 2 RC 2 N	200	1	V	337708
	400	1	V	337710



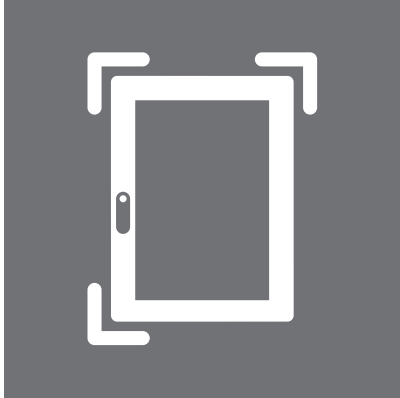
7.4 Floating mullion



			Nº
Basic security RC 1 N RC 2 RC 2 N	200	Bottom	280342
		Top	450822
	400	Bottom	280343
		Top	280345





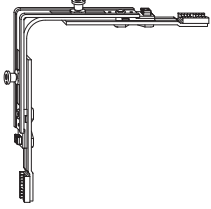








Standard	
See page	130
<hr/>	
Tilt&Turn	
See page	131
<hr/>	
Floating mullion	
See page	132
<hr/>	

8 Corner drives

8.1 Standard



			 #		N ^o
Standard corner drive		110 / 110	1	V	260272
			2	V	260274



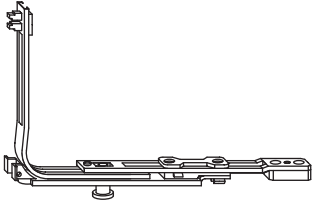
INFO





Standard corner drive with two V cams is required in diagram C – with opposite hardware groove.





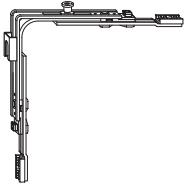
8.2 Tilt&Turn





				Nº
Tilt&Turn corner drive	110 / 0	1	V	260288



8.3 Floating mullion

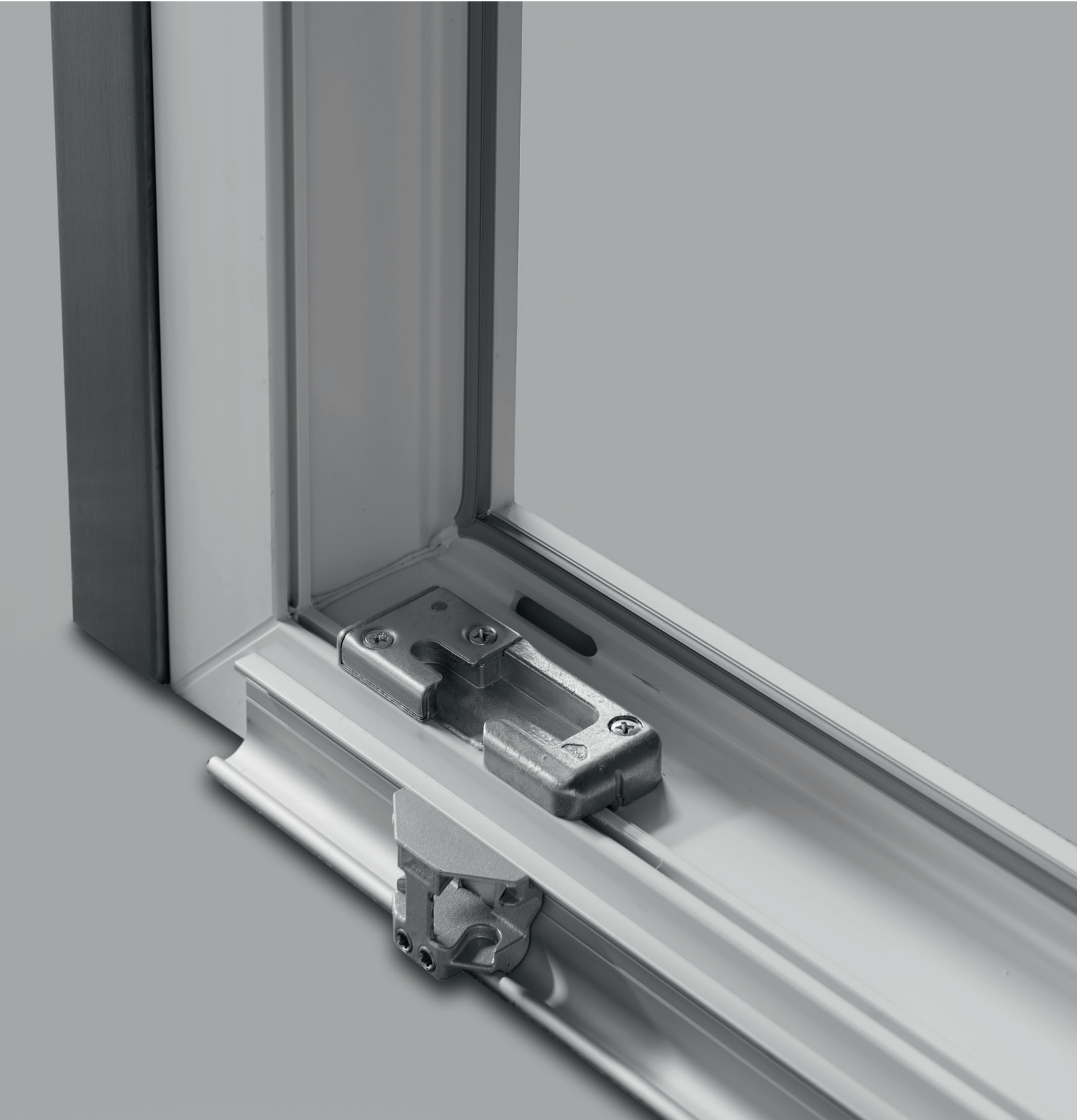


							
Floating mullion corner drive	110 / 110	Second opening sash / welded-on striker	1	1	V	Top	313538
			1	1	V	Bottom	367227









Timber

Strikers	138
Tilt strikers	141
Guide strikers	142
Centre locks	142

PVC

Strikers	145
Tilt strikers	151
Guide strikers	155
Centre locks	157

9 Frame components



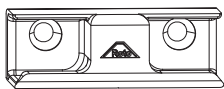
INFO

Further frame components are available upon request.

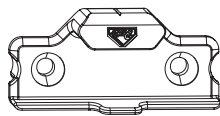
9.1 Timber

9.1.1 Strikers

9.1.1.1 Standard



A



B

Assignment		Meaning
[A]		Hardware axis 9 (Euro-rebate/Euro-groove)
[B]		Hardware axis 13 (Euro-rebate/Euro-groove)

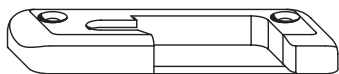


												Nº
Eurofalz	18	12	Screw-on	N	-	Also rebate depth 22	9	Y	-	-	260360	
	20	12	Screw-on	N	-	-	9	Y	-	-	260362	
	24	12	Screw-on	N	-	-	-	13	Y	-	-	261933
		12	Screw-on	Y	2 x Ø 8 mm	-	-	13	Y	-	-	261934
	30	12	Screw-on	N	-	-	-	13	N	-	-	599651
Euronut 7/8	18	12	Screw-on	N	-	Also rebate depth 20	9	Y	-	-	378462	
Euronut 11/8	24	12	Screw-on	N	-	-	13	Y	-	-	378467	



9.1.1.2 Security

Zinc



A



B

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



Eurofalz	18	12	Screw-on	N	-	Also rebate depth 22	9	Y	Left	260382	
		12	Screw-on	N	-	Also rebate depth 22	9	Y	Right	260383	
	20	12	Screw-on	N	-	-	9 10	Y	Left	260386	
		12	Screw-on	N	-	-	9 10	Y	Right	260387	
	24	12	Screw-on	N	-	-	13	Y	Left	261935	
		12	Screw-on	N	-	-	13	Y	Right	262930	
		12	Screw-on	Y	2 x Ø 8 mm	-	13	Y	Left	261936	
		12	Screw-on	Y	2 x Ø 8 mm	-	13	Y	Right	262931	
	30	12	Screw-on	N	-	-	13	Y	-	631527	
Euronut 7/8	18	12	Screw-on	N	-	Also rebate depth 20	9	Y	Left	260388	
		12	Screw-on	N	-	Also rebate depth 20	9	Y	Right	260389	
Euronut 11/8	24	12	Screw-on	N	-	-	13	Y	Left	378465	
		12	Screw-on	N	-	-	13	Y	Right	378466	

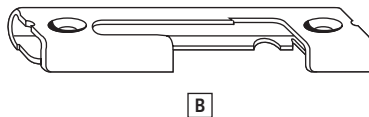
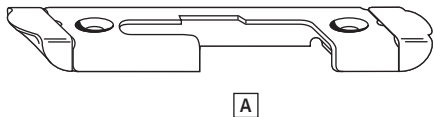


INFO

For the left-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the right-hand frame component.

For the right-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the left-hand frame component.

Steel



Assignment	Meaning
[A]	With end caps
[B]	Without end caps



Eurofalz	18	12	Screw-on	N	-	Also rebate depth 22	9	N	Left	280446		
		12	Screw-on	N	-	Also rebate depth 22	9	N	Right	280447		
	20	12	Screw-on	N	-	-	9	N	Left	280448		
		12	Screw-on	N	-	-	9	N	Right	280449		
	24	12	Screw-on	Y	2 x Ø 8 mm	-	13	Y	Left	261936		
		12	Screw-on	Y	2 x Ø 8 mm	-	13	Y	Right	262931		
Euronut 7/8	18	12	Screw-on	N	-	-	9	N	Left	378461		
		12	Screw-on	N	-	-	9	N	Right	378456		
	20	12	Screw-on	N	-	-	9	N	Left	291552		
		12	Screw-on	N	-	-	9	N	Right	291553		

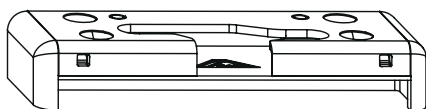


INFO

For the left-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the right-hand frame component.

For the right-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the left-hand frame component.

9.1.1.3 Night ventilation



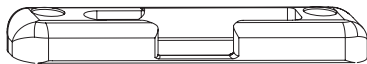
Eurofalz	22	12	Screw-on	N	-	-	13	Left	4 Piece	634894	
		12	Screw-on	N	-	-	13	Right	4 Piece	634893	
	24	12	Screw-on	N	-	-	13	Left	4 Piece	634906	
		12	Screw-on	N	-	-	13	Right	4 Piece	634905	
	30	12	Screw-on	N	-	-	13	Left	4 Piece	634908	
		12	Screw-on	N	-	-	13	Right	4 Piece	634907	



9.1.2 Tilt strikers

9.1.2.1 Standard

Zinc



											Nº
Eurofalz	18	12	Screw-on	N	–	–	9	Y	Left	260479	
		12	Screw-on	N	–	–	9	Y	Right	260480	
	20	12	Screw-on	N	–	–	9	Y	Left	260483	
		12	Screw-on	N	–	–	9	Y	Right	260484	
	24	12	Screw-on	N	–	–	13	Y	Left	261943	
		12	Screw-on	N	–	–	13	Y	Right	262927	
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Left	261944	
		12	Screw-on	Y	2 x Ø 8 mm	–	13	Y	Right	262929	
30	12	Screw-on	N	–	–	13	Y	Left	631525		
	12	Screw-on	N	–	–	13	Y	Right	631526		
Euronut 7/8	18	12	Screw-on	N	–	Also rebate depth 20	9	Y	Left	260487	
		12	Screw-on	N	–	Also rebate depth 20	9	Y	Right	260488	
Euronut 11/8	24	12	Screw-on	N	–	–	13	Y	Left	378464	
		12	Screw-on	N	–	–	13	Y	Right	378457	



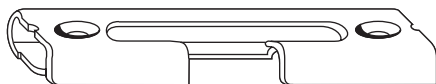
INFO

For the left-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the right-hand frame component.

For the right-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the left-hand frame component.

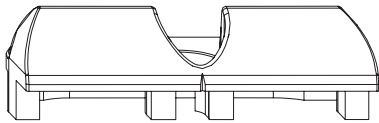


Steel



											Nº
Eurofalz	18	12	Screw-on	N	–	–	9	N	–	280442	
	20	12	Screw-on	N	–	–	9	N	–	280444	
Euronut 7/8	18	12	Screw-on	N	–	–	9	N	–	378459	
	20	12	Screw-on	N	–	–	9	N	–	291557	

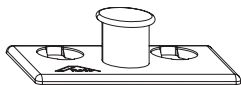
9.1.3 Guide strikers



Eurofalz	18	12	Screw-on	N	–	–	9	775367
	20	12	Screw-on	N	–	–	9	775368
	24	12	Screw-on	N	–	–	13	775370
		12	Screw-on	Y	2 x Ø 8 mm	–	13	776285
	30	12	Screw-on	N	–	–	13	775371
Euronut 7/8	18	12	Screw-on	N	–	Also rebate depth 20	9	775369

9.1.4 Centre locks

9.1.4.1 Comfort scissor stay



Eurofalz	18	12	Screw-on	N	–	Also rebate depth 20 and 22	9	792841
	24	12	Screw-on	N	–	–	13	792842
	30	12	Screw-on	N	–	–	13	792843
Euronut 7/8	18	12	Screw-on	N	–	Also rebate depth 20	9	776314

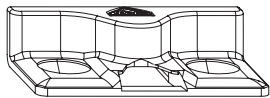










INFO

From SRW 1201, two comfort scissor stays are mounted on the horizontal centre lock component at the top. One frame component is required for each comfort scissor stay.



9.1.4.2 Mishandling device



								N ^o
Eurofalz	18	12	Screw-on	N	–	Also rebate depth 20 and 22	9	785943
	24	12	Screw-on	N	–	–	13	786316
	30	12	Screw-on	N	–	–	13	786318
Euronut 7/8	18	12	Screw-on	N	–	Also rebate depth 20	9	785945



9.2 PVC



INFO

In the following sections, the frame components for the Roto NT product group are shown. These are also used for Roto Patio Alversa.

- Strikers – Standard → *from page 145*
- Strikers – Security → *from page 146*
- Tilt striker – Standard → *from page 151*

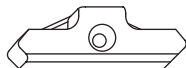
However, Roto Patio Alversa is not necessarily compatible with all of the profile systems described here. Additional profile systems are available upon request.











9.2.1 Strikers

9.2.1.1 Standard



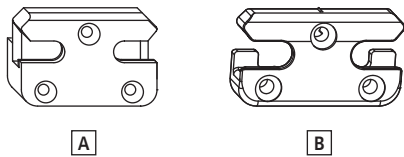
				Nº
Actual Solar 600		13	N	349807
Alphacan System Class		13	N	314251
Aluplast Ideal 2000 Aluplast Ideal 3000 LB Profile Pad Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco Living 82		13	N	331489
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Aluplast Ideal 8000 Dimex Komfort Schüco Corona 60 Vision Schüco Corona AD Schüco Corona AS 60 Schüco Corona MD		13	N	350192
Brüggmann AD 13 Brüggmann MD 13 Dimex Contour Dimex Elegance		13	N	341485
Brüggmann BluEvolution 82 Schüco Corona CT70 AD Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Brüggmann BluEvolution 73 AD Veka Softline 82 MD		13	N	332438
Deceuninck Klassiek Deceuninck Mondial VK		13	Y	281601
Deceuninck Zendow		13	N	370071
Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000		13	N	319744
Inoutic AD 13 Inoutic Eforte Inoutic MD 100 Inoutic Prestige AD Inoutic Prestige MD		13	Y	260370
KBE 70 AD KBE 70 MD Kömmerling Gold		13	N	338070
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance		13	N	334957
Kömmerling Eurodur 3S Kömmerling Eurodur MPF		13	N	457090
Plus Plan Plus Tec		13	Y	264316



			Nº
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86	13	N	332439
Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	N	482541
Salamander 2D Salamander 3D Salamander BluEvolution 92 Salamander Streamline 76	13	N	486195
Trocal 88+ Trocal Innonova 2000	13	Y	290127
Trocal Confort	13	Y	263032
Trocal Innonova 70.A5 AD Trocal Innonova 70.M5 MD	13	N	336797
Wymar 2000	13	N	287033
Wymar 3000	13	N	374157

9.2.1.2 Security

Zinc







A





B

Assignment	Meaning
[A]	With base
[B]	Without base



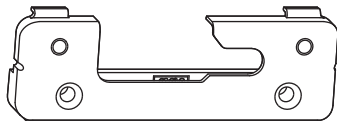
				Nº
Actual Solar 600	13	Y	-	349808
Aluplast Ideal 2000 Aluplast Ideal 3000 LB Profile Pad Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco Living 82	13	Y	-	260395
Aluplast Ideal 2000 Aluplast Ideal 3000 Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco Living 82	13	N	-	331490
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Aluplast Ideal 8000 Dimex Komfort Schüco Corona 60 Vision Schüco Corona AD Schüco Corona AS 60	13	Y	-	257357



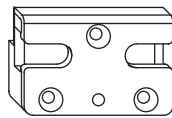
				Nº
Brüggmann AD 13 Brüggmann MD 13 Dimex Contour Dimex Elegance	13	Y	-	292194
Brüggmann BluEvolution 82 Schüco Corona CT70 AD Veka Alphasline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline AD 13 Veka Topline AD 13 Veka Topline MD 13 Brüggmann BluEvolution 73 AD	13	N	-	348410
Brüggmann BluEvolution 82 Schüco Corona CT70 AD Veka Softline AD 13 Veka Topline AD 13 Veka Topline MD 13 Brüggmann BluEvolution 73 AD Veka Softline 82 MD	13	Y	-	260396
Deceuninck Klassiek Deceuninck Mondial VK	13	Y	-	281632
Deceuninck Zendow	13	Y	-	370072
Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000	13	Y	-	260393
Inoutic AD 13 Inoutic Eforte Inoutic MD 100 Inoutic Prestige AD Inoutic Prestige MD	13	Y	-	260394
KBE 70 AD Kömmerling Gold	13	Y	-	289941
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance	13	N	-	334958
Kömmerling Eurodur 3S Kömmerling Eurodur MPF	13	Y	-	258303
Plus Plan Plus Tec	13	Y	-	264327
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 986 EuroDesign 86	13	Y	-	316942
Rehau S 980 Geneo	13	Y	-	496019
Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD	13	Y	-	260399
Salamander 2D Salamander 3D Salamander Streamline 76	13	Y	-	365385
Trocal Innonova 70.A5 AD Trocal Innonova 70.M5 MD	13	N	-	336810
Trocal 88+ Trocal Innonova 2000	13	N	-	290128
Trocal Confort	13	Y	-	263033
Wymar 2000	13	Y	-	380115
Wymar 3000	13	Y	-	374194



Steel



A



B





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



					Nº
Aluplast Ideal 2000 Aluplast Ideal 3000 Schüco Corona CT70 MD Schüco Corona SI82 MD LB Profile Pad Schüco Living 82		13	Y	-	260423
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Schüco Corona AD		13	Y	-	257358
Brüggmann BluEvolution 82 Schüco Corona CT70 AD Veka Softline 70 AD Veka Topline AD 13 Veka Topline MD 13 Brüggmann BluEvolution 73 AD Veka Alphaline 90 Veka Softline 82 MD		13	Y	-	260424
Deceuninck Zendow		13	Y	-	607925
Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000		13	Y	-	260421
Inoutic AD 13 Inoutic Eforte Inoutic Favorite AD 13 Inoutic MD 100 Inoutic Prestige AD Inoutic Prestige MD		13	Y	-	260422
KBE 70 AD		13	N	Left	289972
		13	N	Right	289976
Kömmerling 88 Plus Kömmerling Eurofutur Classic Kömmerling Eurofutur Elegance		13	N	-	334962
Kömmerling Eurodur 3S Wymar 3000 Kömmerling Eurodur MPF		13	Y	-	260417
Rehau S 735 MD Rehau S 788 Rehau S 799 Brillant Design (S 730) Rehau S 969 Synego Rehau S 980 Geneo Rehau S 986 EuroDesign 86		13	Y	-	260418
Roplasto 4K Roplasto 7001 AD Roplasto 7001 MD Plus Plan Plus Tec		13	Y	-	260425





				Nº
Salamander Design 2D	13	N	Left	314270
Salamander Design 3D	13	N	Right	314271
Salamander Streamline 76				
Trocal 88+	13	N	Left	291565
Trocal Innonova 2000	13	N	Right	291566
Trocal S900				
Trocal Innonova 70.A5 AD	13	N	–	336812
Trocal Innonova 70.M5 MD				



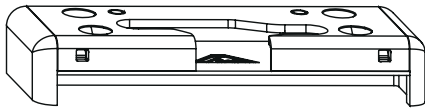
INFO



For the left-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the right-hand frame component.

For the right-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the left-hand frame component.



9.2.1.3 Night ventilation



			Nº
Actual Solar 600 Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Brüggmann BluEvolution 82 Veka Softline 82 MD	Left	4 Piece	774666
	Right	4 Piece	774651
Aluplast Ideal 2000 Aluplast Ideal 3000 Dimex Contour Dimex Elegance LB Profile Pad Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona S182 MD Schüco LivIng 82	Left	4 Piece	774668
	Right	4 Piece	774667
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Dimex Komfort Schüco Corona 60 Vision Schüco Corona AD Schüco Corona AS 60 Schüco Corona MD	Left	4 Piece	774679
	Right	4 Piece	774678
Deceuninck Zendow 3000	Left	4 Piece	774681
	Right	4 Piece	774680
Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000	Left	4 Piece	774677
	Right	4 Piece	774676
Inoutic AD 13 Inoutic Prestige AD Inoutic Prestige MD	Left	4 Piece	774675
	Right	4 Piece	774674
KBE 70 AD KBE 70 MD Kömmerling Gold	Left	4 Piece	774700
	Right	4 Piece	774699
Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurodur MPF Kömmerling Eurofutur Classic	Left	4 Piece	774692
	Right	4 Piece	774691
Plus Plan Plus Tec	Left	4 Piece	774685
	Right	4 Piece	774684
Rehau S 799 Brillant Design (S 730)	Left	4 Piece	774698
	Right	4 Piece	774697
Rehau S 980 Geneo	Left	4 Piece	774672
	Right	4 Piece	774670
Salamander 2D Salamander 3D Salamander Streamline 76	Left	4 Piece	774703
	Right	4 Piece	774702
Trocal 88+ Trocal Innonova 2000	Left	4 Piece	774690
	Right	4 Piece	774689



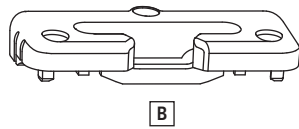
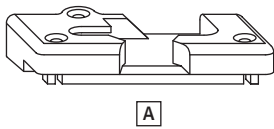


				Nº
Trocal Innonova 70 AD+ Trocal Innonova 70 MD+		Left	4 Piece	774688
		Right	4 Piece	774686
Wymar 3000		Left	4 Piece	774683
		Right	4 Piece	774682

9.2.2 Tilt strikers

9.2.2.1 Standard

Zinc



Assignment	Meaning
[A]	With base
[B]	Without base







					Nº
Actual Solar 600		13	N	-	349806
		13	Y	Left	350425
		13	Y	Right	349816
Alphacan System Class		13	Y	Left	314285
		13	Y	Right	314286
Aluplast Ideal 2000 Aluplast Ideal 3000 Schüco Corona CT70 MD Schüco Corona SI82 MD LB Profile Pad Schüco Living 82		13	N	-	331487
		13	Y	Left	260501
		13	Y	Right	260502
		13	N	-	350190
		13	Y	Left	257364
Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Schüco Corona AD Aluplast Ideal 8000 Dimex Komfort Schüco Corona 60 Vision Schüco Corona AS 60		13	Y	Right	257365
		13	Y	Left	292195
		13	Y	Right	292196
Brüggmann AD 13 Brüggmann MD 13 Dimex Contour Dimex Elegance		13	Y	Left	292195
		13	Y	Right	292196
Schüco Corona CT70 AD Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Softline AD 13 Veka Softline MD 13 Brüggmann BluEvolution 73 AD Brüggmann BluEvolution 82 Veka Softline 82 MD		13	N	-	338019







Frame components

PVC

Tilt strikers

				Nº
Schüco Corona CT70 AD	13	Y	Left	256783
Veka Softline 70 AD	13	Y	Right	256784
Veka Softline 70 MD				
Veka Softline AD 13				
Veka Softline MD 13				
Brüggmann BluEvolution 73 AD				
Brüggmann BluEvolution 82				
Deceuninck Klassiek	13	Y	Left	281599
Deceuninck Mondial VK	13	Y	Right	281600
Deceuninck Zendow	13	Y	Right	370074
	13	Y	Left	370073
Gealan S3000	13	N	-	367200
Gealan S7000	13	Y	Left	260497
Gealan S8000				
Gealan S9000	13	Y	Right	260498
Inoutic AD 13	13	Y	Left	260499
Inoutic Eforte				
Inoutic MD 100	13	Y	Right	260500
Inoutic Prestige AD				
Inoutic AD 13	13	N	-	729039
Inoutic Prestige MD				
Inoutic Prestige MD	13	Y	Left	288117
	13	Y	Right	288118
KBE 70 AD	13	N	-	338071
KBE 70 MD				
KBE 70 AD	13	Y	Left	289973
KBE 70 MD				
Kömmerling Gold	13	Y	Right	289974
Kömmerling 88 Plus	13	N	-	334954
Kömmerling Eurofutur Classic				
Kömmerling Eurofutur Elegance				
Kömmerling Eurodur 3S	13	Y	Left	260489
Kömmerling Eurodur MPF	13	Y	Right	260490
Plus Plan Plus Tec	13	Y	Left	264420
	13	Y	Right	264421
Rehau S 735 MD	13	N	-	338021
Rehau S 788				
Rehau S 799 Brillant Design (S 730)				
Rehau S 969 Synego				
Rehau S 986 EuroDesign 86				
Rehau S 735 MD	13	Y	Left	316939
Rehau S 788				
Rehau S 799 Brillant Design (S 730)	13	Y	Right	316940
Rehau S 986 EuroDesign 86				
Rehau S 980 Geneo	13	Y	Left	496018
	13	Y	Right	496017
Roplasto 4K	13	Y	Left	260507
Roplasto 7001 AD				
Roplasto 7001 MD	13	Y	Right	260508
Salamander 2D	13	N	-	561212
Salamander 3D				
Salamander Streamline 76	13	Y	Left	261724
	13	Y	Right	261725
Trocal 88+	13	Y	Left	290131
Trocal Innonova 2000	13	Y	Right	290152
Trocal Confort	13	Y	Left	263037
	13	Y	Left	263038
Trocal Innonova 70.A5 AD	13	N	-	336808
Trocal Innonova 70.M5 MD				



				Nº
Wymar 2000	13	Y	Right	287040
	13	Y	Left	287037
Wymar 3000	13	Y	Left	373964
	13	Y	Right	373963

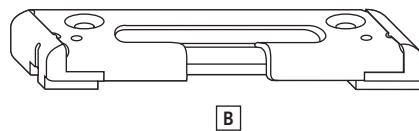
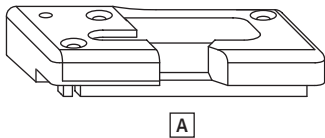


INFO

For the left-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the right-hand frame component.





For the right-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the left-hand frame component.





Steel



Assignment	Meaning
[A]	With base
[B]	Without base



				Nº
Deceuninck Zendow	13	N	–	607926
Aluplast Ideal 2000	13	Y	Left	260349
Aluplast Ideal 3000	13	Y	Right	260350
Schüco Corona CT70 MD				
Schüco Corona SI82 MD				
Schüco Living 82				
Veka Softline 82 MD				
Aluplast Ideal 4000	13	Y	Left	257353
Aluplast Ideal 5000	13	Y	Right	257354
Aluplast Ideal 6000				
Schüco Corona AD				
Brüggmann AD 13	13	N	–	283031
Brüggmann MD 13				
Dimex Contour				
Dimex Elegance				
Schüco Corona CT70 AD	13	Y	Left	260351
Veka Softline 70 AD	13	Y	Right	260352
Veka Topline AD 13				
Veka Topline MD 13				
Brüggmann BluEvolution 73 AD				
Brüggmann BluEvolution 82				
Veka Softline 82 MD				
Gealan S3000	13	Y	Left	260345
Gealan S7000	13	Y	Right	260346
Gealan S8000				
Gealan S9000				
Inoutic AD 13	13	Y	Left	260347
Inoutic Eforte	13	Y	Right	260348
Inoutic MD 100				
Inoutic Prestige AD				

				Nº
Kömmerling Eurofutur Classic	13	Y	Left	260337
Kömmerling Eurofutur Elegance Wymar 3000 Kömmerling Eurodur 3S	13	Y	Right	260338
Roplasto 4K	13	Y	Left	260353
Roplasto 7001 AD Roplasto 7001 MD Plus Plan Plus Tec	13	Y	Right	260354
Trocal 88+ Trocal Innonova 2000 Trocal S900	13	N	–	291564



INFO

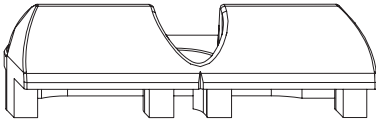
For the left-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the right-hand frame component.

For the right-hand version of the Parallel Sliding or Tilt&Slide door (DIN 107), order the left-hand frame component.





9.2.3 Guide strikers




		N ^o
	Actual Solar 600	775337
	Alphacan System Class	775461
	Aluplast Ideal 2000 Aluplast Ideal 3000 Dimex Contour Dimex Elegance LB Profile Pad Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco Living 82	775338
	Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Aluplast Ideal 8000 Dimex Komfort Schüco Corona 60 Vision Schüco Corona AD Schüco Corona AS 60 Schüco Corona MD	772976
	Brügmann AD 13 Brügmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Brügmann BluEvolution 82 Veka Softline 82 MD	774708
	Deceuninck Zendow 3000	775365
	Deceuninck Klassiek Deceuninck Mondial Deceuninck Mondial VK	775339
	Gealan S3000 Gealan S7000 Gealan S8000 KBE 70 AD Kömmerling Gold Gealan S9000 Wymar 3000	775341
	Inoutic AD 13 Inoutic Prestige AD Inoutic Prestige MD	775342
	KBE 70 MD Plus Plan Plus Tec	775343
	Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurodur MPF Kömmerling Eurofutur Classic	775344
	Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo	774707
	Roplasto 4K	776287
	Salamander Design 2D Salamander Design 3D Salamander Streamline 76	775357



Frame components

PVC

Guide strikers

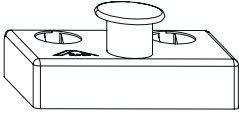
	Nº
Trocal 88+ Trocal Innonova 2000	775363
Trocal Confort	775355
Trocal Innonova 70 AD+ Trocal Innonova 70 MD+	775356
Wymar 2000	775364





9.2.4 Centre locks

9.2.4.1 Comfort scissor stay




		Nº
	Actual Solar 600	776289
	Aluplast Ideal 2000 Aluplast Ideal 3000 Dimex Contour Dimex Elegance LB Profile Pad Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona SI82 MD Schüco Living 82	776291
	Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Aluplast Ideal 8000 Dimex Komfort Schüco Corona 60 Vision Schüco Corona AD Schüco Corona AS 60 Schüco Corona MD	776292
	Brüggmann AD 13 Brüggmann MD 13 Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Topline MD 13 Brüggmann BluEvolution 82 Veka Softline 82 MD	776293
	Deceuninck Klassiek Deceuninck Mondial VK	776294
	Deceuninck Zendow 3000	776308
	Gealan S3000 Gealan S7000 Gealan S8000 KBE 70 AD Kömmerling Gold Gealan S9000 Wymar 3000	776297
	Inoutic AD 13 Inoutic Prestige AD Inoutic Prestige MD	772317
	KBE 70 MD Plus Plan Plus Tec	772318
	Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurodur MPF Kömmerling Eurofutur Classic	776288
	Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo	776307
	Roplasto 4K	776311



Frame components

PVC

Centre locks

	Nº
Salamander 2D Salamander 3D Salamander Design Streamline 76	776304
Trocal 88+ Trocal Innonova 2000	776305
Trocal Confort	776302
Trocal Innonova 70 AD+ Trocal Innonova 70 MD+	776303
Wymar 2000	776306



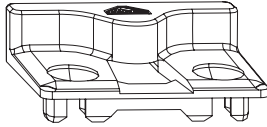
INFO


From SRW 1201, two comfort scissor stays are mounted on the horizontal centre lock component at the top. One frame component is required for each comfort scissor stay.





9.2.4.2 Mishandling device



		N ^o
	Actual Solar 600	785930
	Aluplast Ideal 2000 Aluplast Ideal 3000 Brüggmann BluEvolution 82 Deceuninck Zendow 3000 LB Profile Pad Roplasto 4K Veka Alphaline 90 Veka Softline 70 AD Veka Softline 70 MD Veka Topline AD 13 Veka Softline 82 MD Veka Topline MD 13	785931
	Aluplast Ideal 4000 Aluplast Ideal 5000 Aluplast Ideal 6000 Aluplast Ideal 8000 Deceuninck Klassiek Deceuninck Mondial VK Dimex Komfort Rehau S 799 Brillant Design (S 730) Rehau S 980 Geneo Salamander 2D Salamander 3D Salamander Streamline 76 Schüco Corona 60 Vision Schüco Corona AD Schüco Corona AS 60 Schüco Corona CT70 AD Schüco Corona CT70 MD Schüco Corona MD Schüco Corona SI82 MD Schüco Living 82	785937
	Brüggmann AD 13 Brüggmann MD 13 Dimex Contour Dimex Elegance Plus Plan Plus Tec	786311
	Gealan S3000 Gealan S7000 Gealan S8000 Gealan S9000	785932
	Inoutic AD 13 Inoutic Prestige AD Inoutic Prestige MD	785933
	KBE 70 AD Kömmerling Gold	785934
	KBE 70 MD	785935
	Kömmerling 88 Plus Kömmerling Eurodur 3S Kömmerling Eurodur MPF Kömmerling Eurofutur Classic	785936
	Trocal 88+ Trocal Innonova 2000	785939
	Trocal Confort	786315



Frame components

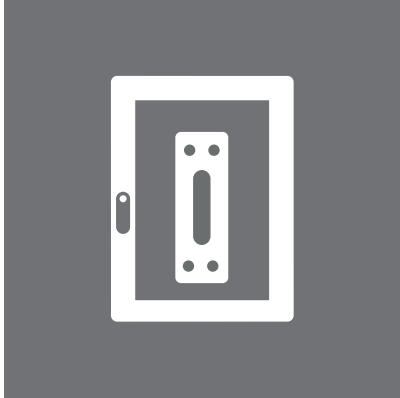
PVC

Centre locks

	№
Trocal Innonova 70 AD+ Trocal Innonova 70 MD+	785938
Wymar 2000	785941
Wymar 3000	785942









Drilling jigs

See page 166

Installation jigs

See page 168

Positioning jigs

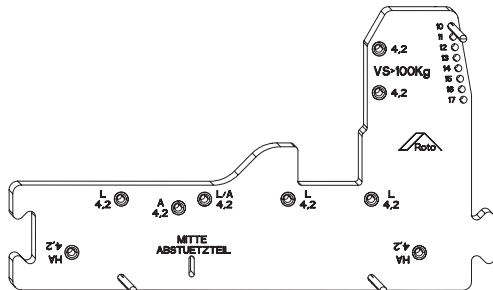
See page 169

Tools

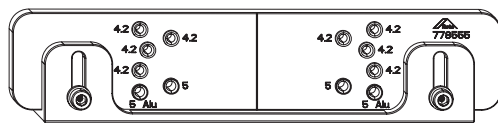
See page 171

10 Jigs

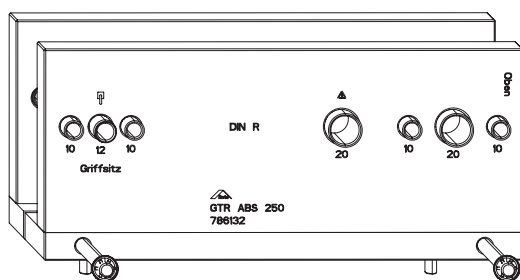
10.1 Drilling jigs



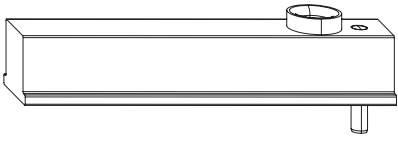
	Nº
Bogies	778522




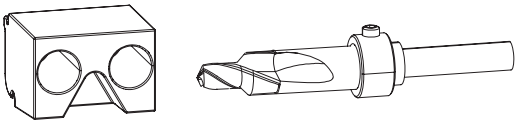
	Nº
Roto Line Alversa geared-handle	778555





	Nº
Lockable T&T espagnolette	786132



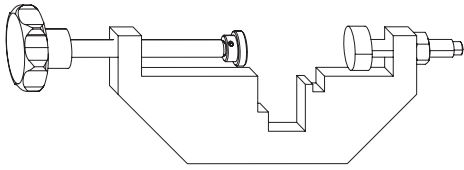
	Nº
Scissor stay retention	778523




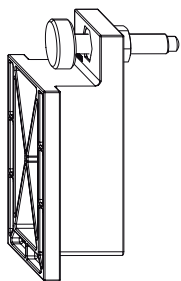
		Nº
Drilling jig with step drill	For diagram D	794249



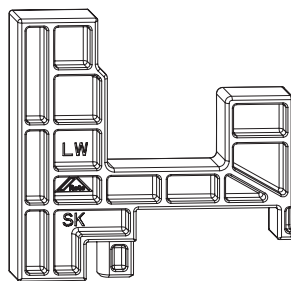
10.2 Installation jigs



	Nº
Roller track and guide track	778520




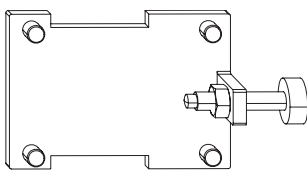
for installation




for adjustment



	Nº
Top guide block for installation	806975
Top guide block for adjustment	782190



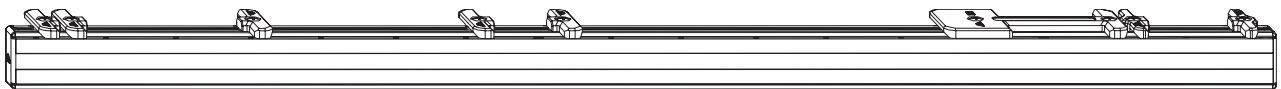
	Nº
Bottom guide block	778524



10.3 Positioning jigs

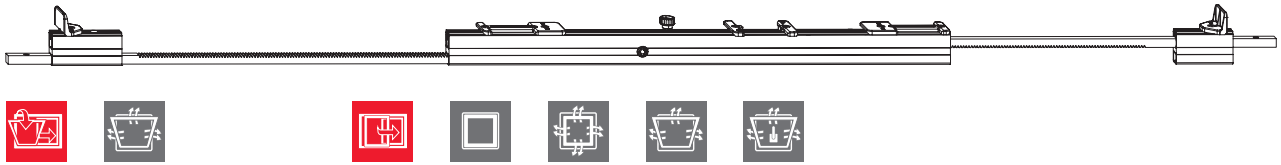





			↔	Nº
Horizontal frame components	-	i	600 – 800	786188
			801 – 1000	786189
			1001 – 1200	786190
			1201 – 1400	786191
			1401 – 1650	786192



			↔	Nº
Horizontal frame components	-	i	720 – 800	776086
			801 – 1000	776087
			1001 – 1200	776088
			1201 – 1400	776089
			1401 – 1650	776090





			Nº
 Vertical frame components	Fixed handle height	600 – 800	388127
		801 – 1400	388126
		1401 – 2000	388125
		2001 – 2400	388124
	Centred / variable handle height	621 – 1200	268943
		1201 – 1600	268944
		1601 – 2000	787401
		2001 – 2400	787402



INFO


On T&T espagnolette – vertical tilting, use jigs for fixed handle height.






10.4 Tools



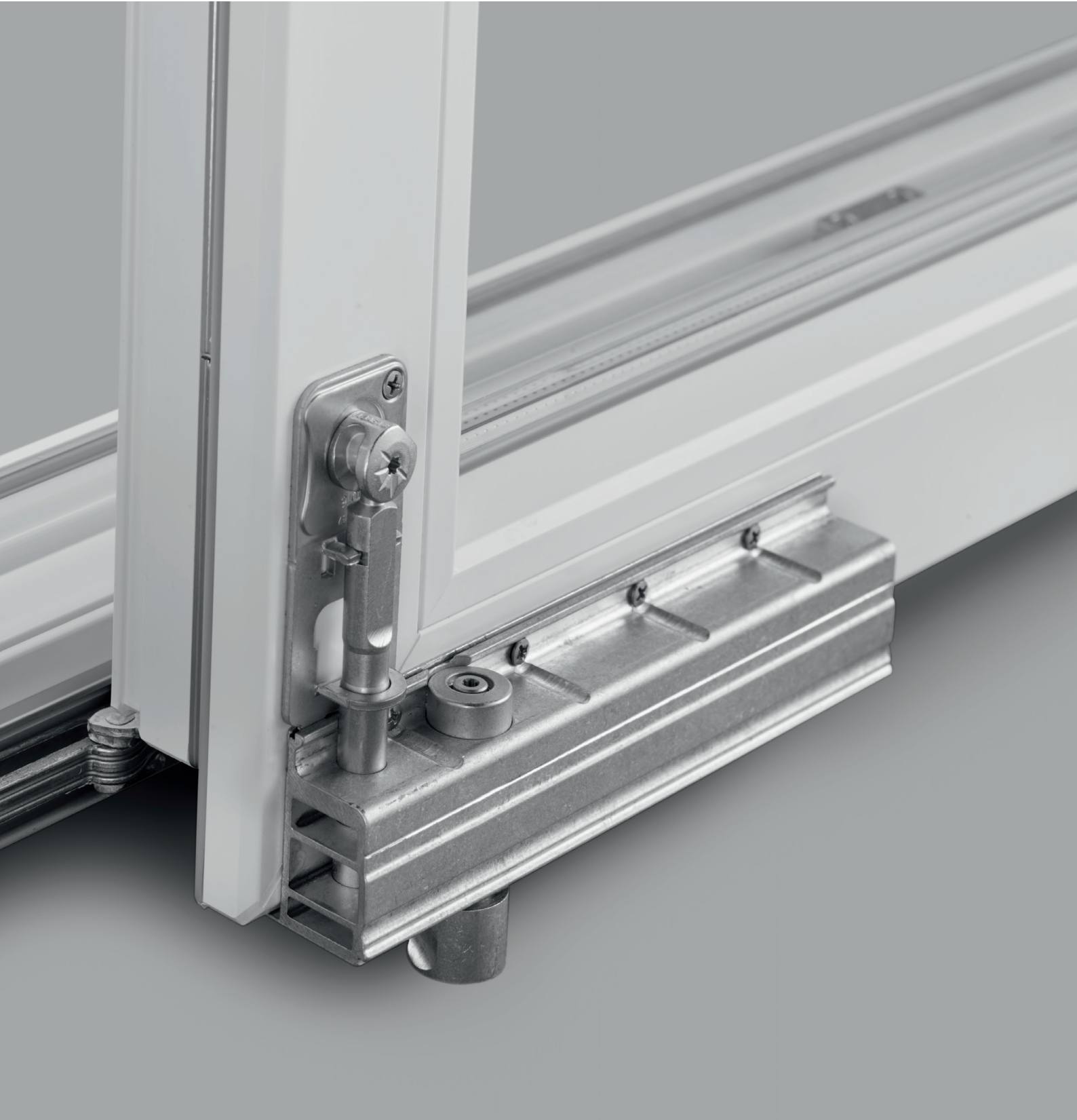
	N ^o
Drilling aid for roller track and guide track	778521



	N ^o
Hexalobular socket screwdriver ISR25	563971





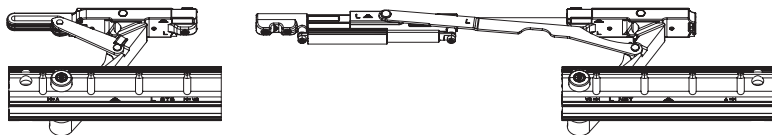









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Roto NX / NT grease	
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11 Individual parts & accessories

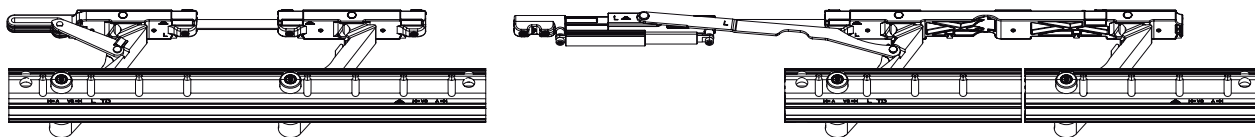
11.1 Bogie set








11.1.1 Bogies



						
Bogie	max. 160 kg	Without leading bogie	N	Left	1 Piece	800141
			N	Right	1 Piece	800167
			Y	Left	1 Piece	800176
			Y	Right	1 Piece	800177
		With leading bogie	N	Left	1 Piece	800093
			N	Right	1 Piece	800137

11.1.2 Tandem bogies



						
Tandem bogie	max. 200 kg	Without leading bogie	Y	Left	1 Piece	800178
			Y	Right	1 Piece	800179
		With leading bogie	N	Left	1 Piece	800168
			N	Right	1 Piece	800169









11.2 Reinforcement bracket set

11.2.1 Cover caps



				Nº
Cover caps	R01.1	Natural silver	1 Pair	781811
	R04.4	Black brown	1 Pair	807247
	R05.3	Medium bronze	1 Pair	781812
	R05.4	Dark bronze	1 Pair	781813
	R05.5	Bronze	1 Pair	781814
	R06.2	Jet black	1 Pair	781815
	R07.2	Traffic white	1 Pair	781816
	R07.3	Cream	1 Pair	781817



11.3 Track set

11.3.1 Roller tracks



					Nº
Roller track	R01.1	Natural silver	6070	1 Piece	785094
	R05.3	Medium bronze	6070	1 Piece	785135
	R05.4	Dark bronze	6070	1 Piece	785136
	R06.2	Jet black	6070	1 Piece	785138

11.3.2 Guide tracks



					Nº
Guide track	R01.1	Natural silver	6070	1 Piece	785139





11.3.3 Stay-connecting profiles



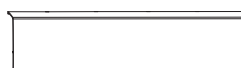
						Nº
Retaining track	13	R01.1	Natural silver	5220	1 Piece	772624
		R04.4	Black brown	5220	1 Piece	798481
		R05.3	Medium bronze	5220	1 Piece	772655
		R05.4	Dark bronze	5220	1 Piece	772656
		R05.5	Bronze	5220	1 Piece	772657
		R06.2	Jet black	5220	1 Piece	785660
		R07.2	Traffic white	5220	1 Piece	772658
		R07.3	Cream	5220	1 Piece	772659
	Roh	Uncoated	5220	1 Piece	785151	
	20	R01.1	Natural silver	5220	1 Piece	793951
		R04.4	Black brown	5220	1 Piece	798484
		R05.3	Medium bronze	5220	1 Piece	793954
		R05.4	Dark bronze	5220	1 Piece	793955
		R05.5	Bronze	5220	1 Piece	793956
		R06.2	Jet black	5220	1 Piece	793957
		R07.2	Traffic white	5220	1 Piece	793958
R07.3		Cream	5220	1 Piece	793959	
Roh	Uncoated	5220	1 Piece	806987		



INFO

In case of sash overlaps of radius or pitch ≥ 3.5 mm, use stay-connecting profile 20.

11.3.4 Cover profile bogies



					Nº
Cover profile bogies	R01.1	Natural silver	5220	1 Piece	772641
	R04.4	Black brown	5220	1 Piece	798472
	R05.3	Medium bronze	5220	1 Piece	772642
	R05.4	Dark bronze	5220	1 Piece	772643
	R05.5	Bronze	5220	1 Piece	772644
	R06.2	Jet black	5220	1 Piece	785148
	R07.2	Traffic white	5220	1 Piece	772645
	R07.3	Cream	5220	1 Piece	772646



11.3.5 Guide track cover profile



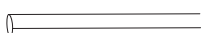
						Nº
Cover profile guide track	R05.3	Medium bronze	–	6070	1 Piece	785144
	R05.4	Dark bronze	–	6070	1 Piece	785659
	R05.5	Bronze	–	6070	1 Piece	785145
	R06.2	Jet black	–	6070	1 Piece	785143
	R07.2	Traffic white	–	6070	1 Piece	785141
	R07.3	Cream	–	6070	1 Piece	785142
	SF	Special colour	RAL 7004 Signal grey	–	6070	1 Piece

11.3.6 Cover caps for cover profile bogies



				Nº
Cover caps for bogie cover profile	R01.1	Natural silver	1 Pair	785675
	R04.4	Black brown	1 Pair	807127
	R05.3	Medium bronze	1 Pair	785771
	R05.4	Dark bronze	1 Pair	785663
	R06.2	Jet black	1 Pair	785770
	R07.2	Traffic white	1 Pair	785662
	R07.3	Cream	1 Pair	785664

11.3.7 Connecting rod

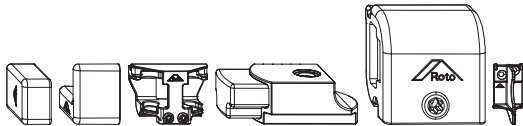






				Nº
Connecting rod	3630	10	1 Piece	785149






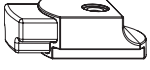



11.3.8 Components pack

11.3.8.1 Standard components pack



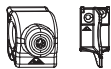
				Nº
Standard components pack	R01.1	Natural silver	1 Piece	786161
	R04.4	Black brown	1 Piece	798928
	R05.3	Medium bronze	1 Piece	786162
	R05.4	Dark bronze	1 Piece	786163
	R05.5	Bronze	1 Piece	786164
	R06.2	Jet black	1 Piece	786185
	R07.2	Traffic white	1 Piece	786186
	R07.3	Cream	1 Piece	786187



Contents

Figure	Quantity	Description
	2	End caps for guide track
	2	End caps for retaining track
	1	Guide block, bottom
	1	Stop part, top
	1	Stop part, bottom
	1	Rubber buffer
	1	Supporting piece





11.3.8.2 Components pack for additional components for wide sashes



		Nº
Components pack for additional components for wide sashes	1 Piece	785792

Contents

Figure	Quantity	Description
	1	Support block
	1	Supporting piece



INFO

Components pack with additional parts for wide sashes is also required for SRW > 1450 mm.





11.4 Scissors-slider set




11.4.1 Fixed top guide block



			№
Fixed top guide block	-	1 Piece	785868

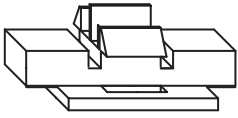
11.4.2 Tiltable top guide block



			№
Tiltable top guide block	Left	1 Piece	772255
	Right	1 Piece	785867



11.5 Travel restrictor



		Nº
T&T espagnolette limited to 90°		264603



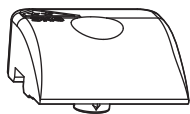
INFO

Travel restrictor is also required in diagram C for the sash that opens second for all Roto Patio Alversa | PS systems.





11.6 Run-up block



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



INFO

Run-up block is additionally required for sashes with security class RC 2 / RC 2 N.
Quantity and position depend on the sash profile and hardware version.



11.7 Roto NX / NT grease

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





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