

Roto Solid

Comprehensive range of door hinges

Catalogue
for timber, PVC and aluminium profiles



german made

What does that mean?



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

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

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

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

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

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

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

Company



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

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

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

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

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

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

Roto | Window and Door Technology

Worldwide



Europe



Roto Frank Austria GmbH

Kalsdorf (AT)



Roto Frank Belarus

Minsk (BY)



Roto Frank S.A.

Nivelles (BE)



Roto Frank GmbH

Dietikon (CH)



Roto Frank Fenster- und Türtechnologie GmbH

Leinfelden / Velbert (DE)



Roto Frank Ehitusrautised OÜ

Tallinn (EE)



Roto Frank S.A.

Lliçà de Vall (ES)



Roto Frank Ferrures S.A.S.

Saint Avold (FR)



Roto Elzett Certa Kft.

Lövő / Sopron (HU)



Roto Frank Italia

San Donà di Piave (IT)



Roto Frank Lithuania

Vilnius (LT)



Roto Frank Latvijā

Jūrmala (LV)





Roto Frank
Warsaw (PL)



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



OOO Roto Frank
Noginsk (RU)



Roto Frank Ltd. Sti.
Istanbul (TR)



Roto Frank Okucia Budowlane Sp. z o.o.
Kiev (UA)



Asia



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



Roto Frank Indonesia
Jakarta (ID)



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



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



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



America



Roto Frank Latina SA
Buenos Aires (ARG)



Roto Frank Brasil Ltd.
San Jose (BR)



Fermax Componentes Ltd.
Colombo (BR)



Roto Fasco Canada Inc.
Mississauga, Ontario (CA)



Roto Frank Chile
Santiago (CL)



Roto Frank of America Inc.
Chester (US)



= Sales = Production / sales

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1 Information

1.1 General



INFO

All dimensions stated in millimetres. Other values are specified.

The following markings are used in this document.

1.1.1 Product features

Symbol	Meaning
	Description
	Width
	DIN left / right
	Colour code, standard
	Colour code, Roto
	Colour
	Sash width
	Sash height
	Height
	Information
	Length
	Material number
	Surface
	Number of screws
	Type of screws



Symbol	Meaning
	Distance from centre of shadow groove or pivot point to frame fixing
	Distance from centre of shadow groove or pivot point to leaf fixing
	Security class
	Flatness deviation
	Depth
	Overlap height
	Packaging unit
	Presetting

1.1.2 Abbreviations

Abbreviation	Meaning
CTL	Catalogue
A	Aluminium
BRN	Blind rivet nut
anod.	Anodising method
SW	Sash width
SH	Sash height
T	Timber
T / A	Timber-aluminium
P	PVC
IMO	Installation instructions
Max.	Maximum
met p	Metal-plating
Not sh.	Not shown
powd-c	Powder coating

1.1.3 Material

Symbol	Meaning
Material	
	Timber
	PVC
	Aluminium



Symbol	Meaning
	Timber and aluminium
	Timber and PVC
	Timber, PVC and aluminium
	Timber, timber-aluminium

1.1.4 Colours



INFO

The surface is powder-coated unless specified otherwise. For more information, see the chapter entitled "Surfaces" → *from page 13.*

Colour code, standard	Colour code, Roto	Colour
–	R01.1	Natural silver
–	R01.3	Titanium
–	R01.5	Silver
–	R03.2	Brass, polished
–	R03.3	Gold
–	R03.4	Stainless-steel design
RAL 8019	R04.1	Grey brown
RAL 8022	R04.4	Black brown
–	R05.3	Medium bronze
–	R05.5	Bronze
RAL 9005	R06.2	Jet black
RAL 9016	R07.2	Traffic white
RAL 9001	R07.3	Cream
SP. COL.	SP. COL.	Special colour
R00.0	R00.0	Uncoated
RAL 1015	R07.5	Light ivory
RAL 1036	–	Pearl gold
RAL 7016M	R02.2M	Anthracite grey, matt
RAL 7016	R02.2	Anthracite grey
RAL 7021	R02.3	Black grey
RAL 8003	–	Clay brown
RAL 8004	–	Copper brown
RAL 8007	–	Fawn brown
RAL 8017	–	Chocolate brown
RAL 8077	–	Dark brown
RAL 9006	–	White aluminium
RAL 9007	–	Grey aluminium
RAL 9022	–	Pearl light grey

Colour code, standard	Colour code, Roto	Colour
–	–	Stainless-steel design

Other RAL colours are available upon request.

Colour examples



INFO

Colours may deviate in the illustration.

1.1.5 Surfaces

Anodising method (anod.)

A surface technology process for creating an oxidic protective layer on aluminium through anodic oxidation. Through conversion of the top metal layer, this produces a thin oxide layer of 5 to 25 micrometers which protects deeper layers from corrosion as long as there are no gaps in this layer, for example due to mechanical damage.

Powder coating (powd-c)

With the powder coating, an electrically charged powder cloud is firstly created. The charged particles are transported to the workpiece surface. This is where they accumulate, electrostatically adhere and form the powder coating layer. When the workpiece is then heated, the paint particles of the powder coating melt to form a homogeneous surface.

The powder coating is made up of polyester resin powder with a quality suitable for facades. Steel components are galvanised and blue passivated before coating. The coating thickness is 70 to 120 µm on the visible surfaces. Before the coating procedure, all components are additionally degreased and pickled in a multi-metal pretreatment system, where a conversion layer is also applied. This greatly improves the corrosion resistance.

Metal-plating (met p)

Electroplated metallic top layer for an especially decorative appearance and corrosion protection. Only use components with this surface in indoor areas.

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 Country-specific ranges



Around the world, Roto offers an extensive range of hardware solutions. These solutions are closely linked to local differences in customer requirements. These differences result in local tailored solutions but also standard solutions available worldwide.

Roto uses the term “country-specific range” to refer to the combination of all available solutions that are precisely tailored to the needs of a country.

To make choosing hardware solutions easier, the material numbers are identified accordingly in this catalogue.

The designation on the front page of the catalogue defines the countries in which the country-specific range is applicable. The material numbers are identified by symbols. These indicate whether a material number is available in a country-specific range or whether this first has to be requested from Roto Sales.



- [A] Applicable for – defines the scope in which the country-specific range is applicable
- [B] Country code – defines the countries in which the country-specific range is applicable

Material No.	Country Code	Product Description
637638	A	[Product description]
637522	B	[Product description]

- [A] Material number included in country-specific range
- [B] Material number not included in country-specific range (request via Roto Sales)

1.3 Roto Solid

Comprehensive range of door hinges

With its Roto Solid range, Roto offers a wide array of door hinges – from cost-effective hinges for back doors and lightweight main doors through to dynamic hinges for very heavy and frequently accessed main entrance doors. Optimised for their applications and manufactured from high-quality materials, Roto Solid door hinges offer exceptional performance characteristics and high long-term durability. Country-specific solutions complete the product range.

Combination of design, comfort and security

When it comes to appearance, with the Roto Solid range, Roto offers a wide selection for fulfilling individual design requirements. From a small screw-on hinge to a three-part butt hinge, many variants are available.



Roto Solid B

Butt hinges for doors



Roto Solid S

Screw-on hinges for doors



Roto Solid C

Concealed hinges for doors

1.3.1 Product overview

Product	Max. sash weight	Door material				Door opening		Certification			
		P	T	T/A	A	Inward opening	Outward opening	CE class	SKG **		
Roto Solid B – Butt hinges											
218 P	80 kg	■	–	–	–	■		■	11	–	→ from page 56
318 P	120 kg	■	–	–	–	■		■	11	–	→ from page 63
222 P	120 kg	■	–	–	–	■		■	13	–	→ from page 72
322 P	160 kg	■	–	–	–	■		■	12	–	→ from page 79
224 A	120 kg	–	–	–	■	■		■	12	–	→ from page 88
324 A	160 kg	–	–	–	■	■		■	12	–	→ from page 91
130 R	120 kg	–	–	–	■	■		■	13	–	→ from page 94
Roto Solid S – Screw-on hinges											
PS 23	80 kg	■	■	–	–	■		■	13	–	→ from page 106
89 NN	80 kg	■	■	–	–	■		■	11	–	→ from page 139
89 NN-SR	80 kg	■	■	–	–	■		■	11	–	→ from page 145
80 ATB	100 kg	–	–	–	■	■		■	12	–	→ from page 192
150 P	110 kg	■	■	–	–	■		■	11	–	→ from page 122
PS 27	120 kg	■	■	–	–	■		■	13	■	→ from page 113
105 NN	120 kg	■	■	–	–	■		■	13	■	→ from page 150
105 NN-SR	120 kg	■	■	–	–	■		■	13	■	→ from page 158
118 D	150 kg	■	■	–	–	■		■	13	■	→ from page 181
117 NN	160 kg	■	■	–	–	■		■	14	■	→ from page 163
117 H	160 kg	■	–	–	–	–		■	14	■	→ from page 169
118 Z	160 kg	■	■	–	–	■		■	14	■	→ from page 175
120 ATB	160 kg	–	■	■	■	■		■	14	–	→ from page 204
Roto Solid C – Concealed hinges											
C7.140	140 kg	–	–	–	■	■		■	10	–	→ from page 227

■ = applicable

1.3.4 Product liability guidelines

In accordance with the German Product Liability Act (Produkthaftungsgesetz), Roto as a manufacturer is liable for ensuring that its products offer the expected level of safety and security after being presented. In this regard, the following specifications, as well as the content and information in the additional referenced documents, must be observed. Failure to observe these discharges Roto from its liability.

Product information

Roto main door hinges are hardware components for vertically installed doors made from timber, PVC or aluminium and their associated combinations of materials. They are used to carry out opening and closing movements and/or locking processes on doors. The mounting material supplied must strictly be used.

When installing hardware components in aluminium profiles, Roto recommends using mounting material which is made from stainless steel or has a zinc flake coating. Contact corrosion may occur if different mounting material is used.

Products used in harsh, corrosive environments are special hardware components; they may only be used after prior consultation with Roto.

Stipulated use

A locking system is only used as stipulated if

- The locking system is put together correctly by experts and consists of permissible hardware, locking components (e.g. key, cylinder) and accessories (e.g. packing plates),
- The information, instructions and notes contained in these guidelines, this catalogue and other technical documents are observed,
- The applicable mandatory legal provisions and standards are complied with,
- The locking system is installed by experts, taking into account the information, instructions and notes provided by Roto for this purpose, and
- The maintenance and care instructions are followed.

The length of time for which a product remains fit for use depends on

- How often it is used,
- The way in which it is used,
- Environment and care.

A hinge must be used if, despite maintenance and care work being carried out, the function can no longer be guaranteed or if the surface poses a risk of injury.

The hinges are not suitable for adapting to shape changes and changes to the sealing closure as a result of temperature differences or changes to the building.

The specific hardware as a whole (locking system) must be put together from genuine Roto parts by experts. If third-party parts are also used, Roto assumes no liability for any resultant malfunctions or damage.

Doors for wet rooms and for use in environments with aggressive, corrosive constituents in the air require special hardware.

Misuse (incorrect handling or handling contrary to the stipulated use)

If the stipulated use is not complied with, this constitutes misuse or incorrect use of the product, which discharges Roto from its liability.

This applies to the following cases in particular:

- The introduction of external and/or unsuitable objects into the locking system prevents the product from operating properly,
- Obstacles are introduced into the opening area,
- The surface is damaged by sharp objects,
- Hinges have been installed or after-treated (e.g. painted over) in such a way that they no longer work properly,
- Loads which are not suitable for the product and exceed normal loading owing to the door's own weight are exerted on the hinges, e.g. resting the leaf on installed hinges,
- The required door gap is increased or reduced when adjusting the hinges or lowering the door,



- Tools or aids which act as a jemmy are used to actuate the door,
- The operating range of the hinges is exceeded,
- Anyone grips between the door leaf and door frame when closing doors,
- Incidents occur which affect functionality (e.g. attempts to break in or out using tools),
- Third-party objects and/or objects not suitable for the door are introduced (e.g pins from third-party manufacturers or a combination of product parts from third-party manufacturers with those from Roto),
- Work is performed on the hinge or it is otherwise impaired in such a way that the structure, mode of operation or correct functioning is impacted.

Please refer to the product-specific documents for more information on misuse.

Product maintenance

Ensure that the hardware components and mounting material are fitted correctly so that they function properly.

Maintenance must be performed on all movable parts at least once per year – or more often depending on use.

Hardware systems must be treated with care products recommended by Roto depending on use.

As a general rule, they must never be treated with strong acids or alkalis. Contamination with mortar and similar materials must always be avoided. Only cleaning agents which do not contain any corrosive substances should be used.

Duty to provide information and issue instructions

The following documents are available to provide information to dealers, planning engineers, architects, advisory institutes, fabricators, builders and users:

- Catalogues and brochures,
- Texts for invitation of tenders,
- Purchasing information,
- Quotation documents,
- Installation, operation and care instructions.

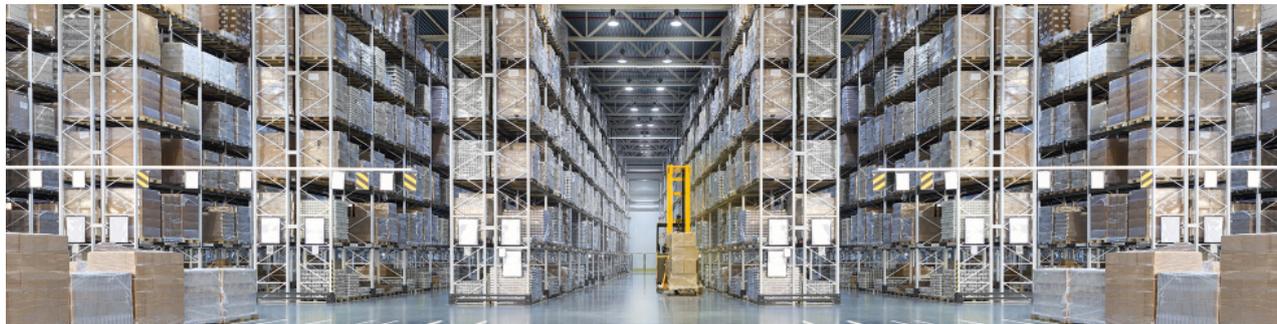
Roto is also on hand to give advice if required.

For selecting Roto hardware systems and for installation, operation and care,

- architects, planning engineers and advisory institutes are obligated to request all of the necessary product information from Roto and to observe this information;
- specialist dealers are obligated to observe the product information and instructions in the documents and, in particular, to request all of the necessary instructions from Roto and to pass these on to the fabricators;
- fabricators are obligated to observe all production information and, in particular, to request all of the necessary operation and care instructions from Roto and to pass these on to the customers and users.



1.4 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

1.5 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.

1.6 Certifications

1.6.1 Constancy of performance

in accordance with EN 1935:2002

1.6.1.1 PIV

CEP_305 | 130 R



PIV Prüfinstitut Schlösser und Beschläge Velbert
Wallstraße 41 – D 42551 Velbert
Institutsleitung: Andrea Horsthemke (B.Eng.)
Tel 0049-(0)2051-9506 5
Fax 0049-(0)2051-9506 69
Mail: info@piv-velbert.de



1309

Zertifikat der Leistungsbeständigkeit

1309 - CPR - 0349
(Version: 01)

In Übereinstimmung mit der EU-Verordnung Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder CPR) gilt dieses Zertifikat für das Bauprodukt

Roto Solid B 130 R
Artikelnummer: 778093 und 816000

Ausführung: 2-teiliges Klemmband

auf den Markt gebracht unter dem Namen oder der Handelsmarke von

Roto Frank Fenster- und Türtechnologie GmbH
Wilhelm-Frank-Platz 1
D-70771 Leinfelden-Echterdingen

und produziert in der Produktionsstätte

D-42551 Velbert
Eintrachtstraße 95

Dieses Zertifikat bescheinigt, dass alle Bestimmungen zur Bewertung und Überprüfung der Leistungsbeständigkeit laut der Beschreibung in Anhang ZA der Norm

EN 1935:2002/AC:2003

im Rahmen des Systems 1 für die Leistung laut den Angaben in diesem Zertifikat angewendet werden, und dass

die Leistung des Bauprodukts als beständig bleibend bewertet wird.

Produkt Klassifizierungsschlüssel

4	7	6	0	1	4 (5*)	1	13
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Eignung für die Verwendung an Türen in Rettungswegen
* Klasse 5 nach DIN EN 1670:2007 für Oberfläche RAL 9016

Dieses Zertifikat wurde erstmals am **29. November 2016** ausgestellt und bleibt gültig, bis entweder die harmonisierte Norm, das Bauprodukt, das System zur Bewertung und Überprüfung der Leistungsbeständigkeit oder die Produktionsbedingungen im Werk wesentlich verändert werden, oder bis das Zertifikat von der benannten Zertifizierungsstelle ausgesetzt oder zurückgenommen wird.

Stempel Zertifizierungsstelle

D-Velbert, 25. Oktober 2019

Dieses Zertifikat hat insgesamt 2 Seiten und ersetzt das Zertifikat Nr. 1309-CPR-0349, Version 00 vom 29.11.2016.



Horsthemke
Andrea Horsthemke (B.Eng.)
Leiterin der Zertifizierungsstelle

PIV 1309-01

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



CEP_166 | 117 H, 117 NN



PIV Prüfinstitut Schlösser und Beschläge Velbert
 Wallstraße 41 – D 42551 Velbert
 Institutsleitung: Rainer Ehle, Dipl.-Ing.
 Tel 0049-(0)2051-9506 5
 Fax 0049-(0)2051-9506 69
 Mail: piv.velbert@t-online.de



1309

Zertifikat der Leistungsbeständigkeit

Certificate of constancy of performance

1309 - CPR - 0147

Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 09. März 2011 (Bauproduktenverordnung – CPR), gilt dieses Zertifikat für das Bauprodukt

Einachsiges Türband
117 H / 117 NN
 Artikelnummer: 604642
 Weitere Artikel-Nrn.: siehe Produktmatrix

Ausführung: 2-teiliges Aufsraubband für Türen
 hergestellt durch oder für

ROTO FRANK AG
 Wilhelm-Frank-Platz 1
 70771 Leinfelden-Echterdingen

und erzeugt im Herstellwerk
 Eintrachtstr. 95
 42551 Velbert

Dieses Zertifikat bescheinigt, dass alle Vorschriften über die Bewertung und Überprüfung der Leistungsbeständigkeit und die Leistungen beschrieben im Anhang ZA der harmonisierten Norm

EN 1935:2002

entsprechend System 1 angewendet werden und dass das Bauprodukt alle darin vorgeschriebenen Anforderungen erfüllt.

Produkt Klassifizierungsschlüssel

4	7	7	0	1	4(5*)	1	14
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- Eignung für die Verwendung an Fluchtüren
 - *Pos. 6: Klasse 5 gemäß EN 1670:2007

Dieses Zertifikat wurde erstmals am **20.05.2011** ausgestellt und bleibt gültig, solange sich die in der harmonisierten Norm genannten Prüfverfahren und/oder Anforderungen der werkseigenen Produktionskontrolle zur Bewertung der Leistung der Merkmale nicht ändern und das Produkt und die Herstellbedingungen im Werk nicht wesentlich geändert werden.

Stempel Zertifizierungsstelle

Velbert, 10.04.2014

Dieses Zertifikat hat insgesamt 2 Seiten.





Rainer Ehle, Dipl.-Ing.
 Leiter der Zertifizierungsstelle

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

CEP_173 | 118 Z



PIV Prüfinstitut Schlösser und Beschläge Velbert
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 Mail: piv.velbert@t-online.de



1309

Zertifikat der Leistungsbeständigkeit

Certificate of constancy of performance

1309 - CPR - 0141

Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 09. März 2011 (Bauproduktenverordnung – CPR), gilt dieses Zertifikat für das Bauprodukt

Einachsiges Türband
118 Z
 Artikelnummer 544538
 Weitere Artikel-Nrn.: siehe Produktmatrix

Ausführung: 2-teiliges Aufsraubband für Türen
 hergestellt durch oder für

ROTO FRANK AG
 Wilhelm-Frank-Platz 1
 70771 Leinfelden-Echterdingen

und erzeugt im Herstellwerk
 Eintrachtstr. 95
 42551 Velbert

Dieses Zertifikat bescheinigt, dass alle Vorschriften über die Bewertung und Überprüfung der Leistungsbeständigkeit und die Leistungen beschrieben im Anhang ZA der harmonisierten Norm

EN 1935:2002

entsprechend System 1 angewendet werden und dass das Bauprodukt alle darin vorgeschriebenen Anforderungen erfüllt.

Produkt Klassifizierungsschlüssel

4	7	7	0	1	4(5*)	1	14
---	---	---	---	---	-------	---	----

- Eignung für die Verwendung an Fluchttüren, Position 6*: Klasse 5 gemäß EN 1670:2007

Dieses Zertifikat wurde erstmals am **27.04.2011** ausgestellt und bleibt gültig, solange sich die in der harmonisierten Norm genannten Prüfverfahren und/oder Anforderungen der werkseigenen Produktionskontrolle zur Bewertung der Leistung der Merkmale nicht ändern und das Produkt und die Herstellbedingungen im Werk nicht wesentlich geändert werden.

Stempel Zertifizierungsstelle

Velbert, 24.02.2014

Dieses Zertifikat hat insgesamt 2 Seiten.




 Rainer Ehle, Dipl.-Ing.
 Leiter der Zertifizierungsstelle

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



CEP_170 | 118 D



PIV Prüfinstitut Schlösser und Beschläge Velbert
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 Fax 0049-(0)2051-9506 69
 Mail: piv.velbert@t-online.de



1309

Zertifikat der Leistungsbeständigkeit

Certificate of constancy of performance

1309 - CPR - 0168

Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 09. März 2011 (Bauproduktenverordnung – CPR), gilt dieses Zertifikat für das Bauprodukt

Einachsiges Türband
118 D
 Artikelnummer: 544312
 Weitere Artikel-Nrn.: siehe Produktmatrix

Ausführung: 3-teiliges Aufschraubband für Türen
 hergestellt durch oder für

ROTO FRANK AG
 Wilhelm-Frank-Platz 1
 70771 Leinfelden-Echterdingen

und erzeugt im Herstellwerk
 Eintrachtstr. 95
 42551 Velbert

Dieses Zertifikat bescheinigt, dass alle Vorschriften über die Bewertung und Überprüfung der Leistungsbeständigkeit und die Leistungen beschrieben im Anhang ZA der harmonisierten Norm

EN 1935:2002

entsprechend System 1 angewendet werden und dass das Bauprodukt alle darin vorgeschriebenen Anforderungen erfüllt.

Produkt Klassifizierungsschlüssel

4	7	6	0	1	4(5*)	1	13
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- Eignung für die Verwendung an Fluchttüren, Position 6*: Klasse 5 gemäß EN 1670:2007

Dieses Zertifikat wurde erstmals am **09.01.2012** ausgestellt und bleibt gültig, solange sich die in der harmonisierten Norm genannten Prüfverfahren und/oder Anforderungen der werkseigenen Produktionskontrolle zur Bewertung der Leistung der Merkmale nicht ändern und das Produkt und die Herstellbedingungen im Werk nicht wesentlich geändert werden.

Velbert, 24.02.2014

Dieses Zertifikat hat insgesamt 2 Seiten.

Stempel Zertifizierungsstelle





Rainer Ehle, Dipl.-Ing.
 Leiter der Zertifizierungsstelle

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



CEP_150 | 80 ATB



PIV Prüfinstitut Schlösser und Beschläge Velbert
 Wallstraße 41 – D 42551 Velbert
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1309

Zertifikat der Leistungsbeständigkeit
 Certificate of constancy of performance

1309 - CPR - 0107

Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 09. März 2011 (Bauproduktenverordnung – CPR), gilt dieses Zertifikat für das Bauprodukt

Einachsiges Türband
80 ATB
 Artikelnummer: 548314
 Weitere Artikel-Nrn.: siehe Produktmatrix

Ausführung: 2-teiliges Aufschraubband für Türen

hergestellt durch oder für

ROTO FRANK AG
 Wilhelm-Frank-Platz 1
 70771 Leinfelden-Echterdingen

und erzeugt im Herstellwerk

Eintrachtstr. 95
 42551 Velbert

Dieses Zertifikat bescheinigt, dass alle Vorschriften über die Bewertung und Überprüfung der Leistungsbeständigkeit und die Leistungen beschrieben im Anhang ZA der harmonisierten Norm

EN 1935:2002

entsprechend System 1 angewendet werden und dass das Bauprodukt alle darin vorgeschriebenen Anforderungen erfüllt.

Produkt Klassifizierungsschlüssel

4	7	5	0	1	4(5*)	1	12
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- Eignung für die Verwendung an Fluchtüren
 - *Pos. 6: Klasse 5 gemäß EN 1670:2007

Dieses Zertifikat wurde erstmals am **14.04.2009** ausgestellt und bleibt gültig, solange sich die in der harmonisierten Norm genannten Prüfverfahren und/oder Anforderungen der werkseigenen Produktionskontrolle zur Bewertung der Leistung der Merkmale nicht ändern und das Produkt und die Herstellbedingungen im Werk nicht wesentlich geändert werden.

Velbert, 14.04.2014

Dieses Zertifikat hat insgesamt 2 Seiten.

Stempel Zertifizierungsstelle





Rainer Ehle, Dipl.-Ing.
 Leiter der Zertifizierungsstelle

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CEP_154 | 120 ATB



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 Fax 0049-(0)2051-9506 69
 Mail: piv.velbert@t-online.de


1309

Zertifikat der Leistungsbeständigkeit

Certificate of constancy of performance

1309 - CPR - 0077

Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 09. März 2011 (Bauproduktenverordnung – CPR), gilt dieses Zertifikat für das Bauprodukt

**Einachsiges Türband
 120 ATB**
 Artikelnummer: 548410
 Weitere Artikel-Nrn.: siehe Produktmatrix

Ausführung: 3-teiliges Aufschraubband für Türen

hergestellt durch oder für

ROTO FRANK AG
 Wilhelm-Frank-Platz 1
 70771 Leinfelden-Echterdingen

und erzeugt im Herstellwerk

Eintrachtstr. 95
 42551 Velbert

Dieses Zertifikat bescheinigt, dass alle Vorschriften über die Bewertung und Überprüfung der Leistungsbeständigkeit und die Leistungen beschrieben im Anhang ZA der harmonisierten Norm

EN 1935:2002

entsprechend System 1 angewendet werden und dass das Bauprodukt alle darin vorgeschriebenen Anforderungen erfüllt.

Produkt Klassifizierungsschlüssel

4	7	7	0	1	4(5*)	1	14
----------	----------	----------	----------	----------	--------------	----------	-----------

- Eignung für die Verwendung an Fluchtüren
 - *Pos. 6: Klasse 5 gemäß EN 1670:2007

Dieses Zertifikat wurde erstmals am 11.10.2007 ausgestellt und bleibt gültig, solange sich die in der harmonisierten Norm genannten Prüfverfahren und/oder Anforderungen der werkseigenen Produktionskontrolle zur Bewertung der Leistung der Merkmale nicht ändern und das Produkt und die Herstellbedingungen im Werk nicht wesentlich geändert werden.

Velbert, 14.04.2014

Dieses Zertifikat hat insgesamt 2 Seiten.

Stempel Zertifizierungsstelle




 Rainer Ehle, Dipl.-Ing.
 Leiter der Zertifizierungsstelle

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



1.6.1.2 ift

CEP_256 | PS 27, PS 23, 150 P, 89 NN, 89 NN-SR, 105 NN, 105 NN-SR

Zertifikat zur Bescheinigung der Leistungsbeständigkeit		
Zertifikatsnummer: 0757-CPR-229IFT-7031575-1-5		
<p>Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder CPR) gilt dieses Zertifikat für das Bauprodukt</p> <p style="text-align: center;">Türbänder</p> <p>Roto Solid S PS 27, Roto Solid S PS 23, Roto Solid S 150 P, Roto Solid S 89 NN, Roto Solid S 89 NN-SR, Roto Solid S 105 NN, Roto Solid S 105 NN-SR gemäß der Zusammenstellung in Anlage 1</p> <p>Leistungsstufen und -klassen gemäß der Zusammenstellung in Anlage 1</p> <p>Verwendungszweck zur Verwendung an Türen in Flucht- und Rettungswegen ohne Anforderungen an den Rauch- und Brandschutz</p> <p>in Verkehr gebracht unter dem Namen oder der Marke von ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz</p> <p>Herstellungsbetrieb(e) ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz</p> <p>Notifizierte Stelle EG-Referenz-Nr. 0757</p> <p>Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en)</p> <p style="text-align: center;">EN 1935 : 2002</p> <p>beschrieben werden, unter System 1 für die in diesem Zertifikat aufgeführten Leistungen angewandt werden und dass die vom Hersteller durchgeführte werkseigene Produktionskontrolle bewertet wurde, um die Leistungsbeständigkeit des Bauprodukts sicherzustellen.</p> <p>Dieses Zertifikat wurde erstmalig am 09.07.2008 ausgestellt und besitzt Gültigkeit bis zum 07.08.2022, solange weder die harmonisierten Norm, das Bauprodukt, der AVCP-Methoden, noch die Herstellungsbedingungen im Herstellungsbetrieb wesentlich geändert werden, sofern sie nicht durch die notifizierte Produktzertifizierungsstelle ausgesetzt oder zurückgezogen wird.</p> <p>Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229IFT 7031575 gebunden.</p>	<p>Grundlage(n): EN 1935-2002.02/AC:2003-12</p> <div style="display: flex; flex-direction: column; align-items: center;"> </div> <div style="text-align: center; margin-top: 20px;"> <p>www.ec.europa.eu</p> <p>www.ift-rosenheim.de</p> </div>	
<p>2016/01/1002</p> <p> Prof. Ulrich Sieberth Institutsleiter</p> <p> ift Rosenheim 08.08.2019</p> <p> Christian Kehler Leiter der notifizierten Produktzertifizierungsstelle</p>		
<p># Rosenheim GmbH Theodor-Dietl-Str. 7-9 D-83028 Rosenheim</p> <p>Kontakt Tel: +49 89 31 261 0 Fax: +49 89 31 261 390 www.ift-rosenheim.de</p> <p>Prüfung und Kalibrierung – EN ISO/IEC 17025 Inspektion – EN ISO/IEC 17020 Zertifizierung Produkte – EN ISO/IEC 17065 Zertifizierung Managementsysteme – EN ISO/IEC 17021</p> <p> TÜV SÜD TÜV SÜD</p> <p> DAKKS Dachau Dachau</p>		

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CEP_357 | 218 P, 318 P, 222 P, 322 P, 224 A, 324 A

<h2>Zertifikat zur Bescheinigung der Leistungsbeständigkeit</h2>		
<p>Zertifikatsnummer: 0757-CPR-229IFT-7031575-3-2</p>		
<p>Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder CPR) gilt dieses Zertifikat für das Bauprodukt</p>		<p>Grundlage(n): EN 1935-2002-02/AC:2003-12</p>
<p>Türbänder</p>		
Handelsname Spezifikation	<p>Roto Solid B 150R, Roto Solid B 170R gemäß der Zusammenstellung in Anlage 1</p>	
Leistungsstufen und -klassen	<p>gemäß der Zusammenstellung in Anlage 1</p>	
Verwendungszweck	<p>zur Verwendung an Türen in Flucht- und Rettungswegen ohne Anforderungen an den Rauch- und Brandschutz</p>	
In Verkehr gebracht unter dem Namen oder der Marke von	<p>ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz</p>	
Herstellungsbetrieb(e)	<p>ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Roto Frank Fenster- und Türtechnologie GmbH Eintrachtstrasse 95, D-42551 Velbert</p>	
Notifizierte Stelle EG-Referenz-Nr.	<p>0757</p>	
<p>Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en)</p>		
<p>EN 1935 : 2002</p>		
<p>beschrieben werden, unter System 1 für die in diesem Zertifikat aufgeführten Leistungen angewandt werden und dass die vom Hersteller durchgeführte werkseigene Produktionskontrolle bewertet wurde, um die Leistungsbeständigkeit des Bauprodukts sicherzustellen.</p>		
<p>Dieses Zertifikat wurde erstmalig am 10.05.2021 ausgestellt und besitzt Gültigkeit bis zum 09.05.2024, solange weder die harmonisierten Norm, das Bauprodukt, der AVCP-Methoden, noch die Herstellungsbedingungen im Herstellungsbetrieb wesentlich geändert werden, sofern sie nicht durch die notifizierte Produktzertifizierungsstelle ausgesetzt oder zurückgezogen wird.</p>		
<p>Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229EG 7031575 gebunden.</p>		
<p><i>Jörn P. Laas</i> Prof. Jörn P. Laas Institutsleiter ift Rosenheim 14.06.2021</p>		<p><i>Christian Kehrer</i> Christian Kehrer Leiter der notifizierte Produktzertifizierungsstelle</p>
		<p>www.ec.europa.eu</p> <p>www.ift-rosenheim.de</p>
<p>ift Rosenheim GmbH Theodor-Sieff Str. 7-9 D-69078 Rosenheim</p>	<p>Kontakt Tel. +49 89 31 261-3 Fax +49 89 31 261-290 www.ift-rosenheim.de</p>	<p>Prüfung und Kalibrierung – EN ISO/IEC 17025 ift Rosenheim – EN ISO/IEC 17025 Zertifizierung Trossenbau – TR ISO/IEC 17085 Zertifizierung Managementsysteme – EN ISO/IEC 17021</p>
		<p>DAKKS DEKRA Zertifizierung 2017-15-001-01</p>

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CEP_317 | C7.140

<h2>Zertifikat zur Bescheinigung der Leistungsbeständigkeit</h2>		
<p>Zertifikatsnummer: 0757-CPR-229IFT-7031575-2-2</p>		
<p>Gemäß der Verordnung (EU) Nr. 305/2011 des Europäischen Parlaments und des Rates vom 9. März 2011 (Bauproduktenverordnung oder CPR) gilt dieses Zertifikat für das Bauprodukt</p>		<p>Grundlage(n): EN 1935-2002.02/AC:2003-12</p>
<p>Türbänder</p>		
Handelsname	<p>ROTO SOLID C7.140</p>	
Spezifikation	<p>gemäß der Zusammenstellung in Anlage 1</p>	
Leistungsstufen und -klassen	<p>gemäß der Zusammenstellung in Anlage 1</p>	
Verwendungszweck	<p>zur Verwendung an Türen in Flucht- und Rettungswegen ohne Anforderungen an den Rauch- und Brandschutz</p>	
In Verkehr gebracht unter dem Namen oder der Marke von	<p>ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kaladorf bei Graz</p>	
Herstellungsbetrieb(e)	<p>ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kaladorf bei Graz</p>	
Notifizierte Stelle	<p>0757</p>	
EG-Referenz-Nr.		
<p>Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en)</p>		
<p>EN 1935 : 2002</p>		
<p>beschrieben werden, unter System 1 für die in diesem Zertifikat aufgeführten Leistungen angewandt werden und dass die vom Hersteller durchgeführte werkseigene Produktionskontrolle bewertet wurde, um die Leistungsbeständigkeit des Bauprodukts sicherzustellen.</p>		
<p>Dieses Zertifikat wurde erstmalig am 08.02.2017 ausgestellt und besitzt Gültigkeit bis zum 07.02.2023, solange weder die harmonisierten Norm, das Bauprodukt, der AVCP-Methoden, noch die Herstellungsbedingungen im Herstellungsbetrieb wesentlich geändert werden, sofern sie nicht durch die notifizierte Produktzertifizierungsstelle ausgesetzt oder zurückgezogen wird.</p>		
<p>Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229EG 7031575 gebunden.</p>		
<p><i>Jörn P. Lass</i> Prof. Jörn P. Lass Institutsleiter ift Rosenheim 08.02.2020</p>		<p><i>Christian Kehrer</i> Christian Kehrer Leiter der notifizierten Produktzertifizierungsstelle</p>
		 <p>www.ec.europa.eu</p>  <p>www.ift-rosenheim.de</p>
<p>ift Rosenheim GmbH Theodor-Siehl-Str. 7-9 D-83078 Rosenheim</p>	<p>Kontakt: Tel. +49 8031 261-3 Fax +49 8031 207 280 www.ift-rosenheim.de</p>	<p>Prüfung und Kalibrierung – EN ISO/IEC 17025 ift Rosenheim – EN ISO/IEC 17025 Zertifizierung Trossenbau – TR ISO/IEC 17065 Zertifizierung Managementsysteme – EN ISO/IEC 17021</p>
		

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1.6.1.3 Environmental product declaration

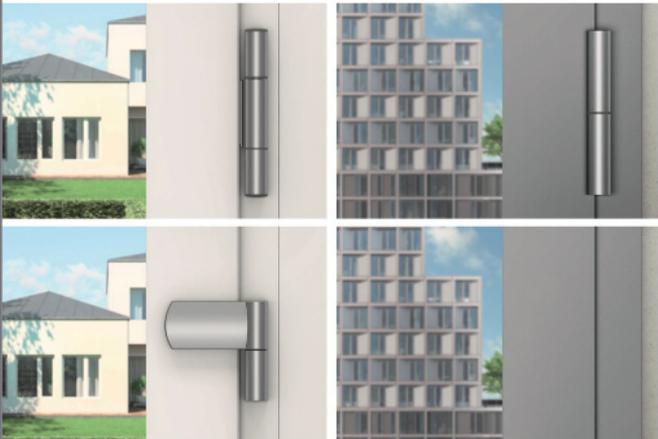
UMWELT-PRODUKTDEKLARATION
 nach ISO 14025 und EN 15804

Deklarationsinhaber	ARGE: Arbeitsgemeinschaft der Verbände der Europäischen Schloss- und Beschlagindustrie
Programmhalter	Institut Bauen und Umwelt e.V. (IBU)
Herausgeber	Institut Bauen und Umwelt e.V. (IBU)
Deklarationsnummer	EPD-ARG-20160193-IBG2-EN
ECO EPD Ref. Nr.	ECO-00000411
Ausstellungsdatum	14.09.2016
Gültigkeit	13.09.2021

Einachsige Bänder
ARGE, Arbeitsgemeinschaft der Verbände der Europäischen Schloss- und Beschlagindustrie

(Diese EPD gilt nur für Produkte eines ARGE-EPD Lizenzinhabers)

www.ibu-epd.com / <https://epd-online.com>








Roto Frank AG legt diese EPD als Lizenznehmer des Fachverbandes Schloss- und Beschlagindustrie e.V. vor.



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1.6.2 Conformity (QM 343)

1.6.2.1 ift

CEP_61 | PS 27, PS 23, 150 P, 89 NN, 89 NN-SR, 105 NN, 105 NN-SR



ift-KONFORMITÄTSZERTIFIKAT
ift-CERTIFICATE OF CONFORMITY

Bänder / Hinges

Produktfamilien
product families

Produkt(e)
product(s)

Einsatzbereich
field of application

Hersteller
manufacturer

Produktionsstandort
production site

Bandensysteme für Bauelemente nach EN 14351-1
hinge systems for products according EN 14351-1

Roto Solid S PS 27, Roto Solid S PS 23, Roto Solid S 150 P,
Roto Solid S 89 NN, Roto Solid S 89 NN-SR,
Roto Solid S 105 NN, Roto Solid S 105 NN-SR

Türen aus Kunststoff
doors with material of PVC

ROTO-FRANK AUSTRIA GmbH
 Lapp-Finze-Str. 21, A 8401 Kalsdorf bei Graz

ROTO-FRANK AUSTRIA GmbH
 Lapp-Finze-Str. 21, A 8401 Kalsdorf bei Graz





 EN 1191
 EN 12400
 Klasse 5
 Dauerfunktion
assistance to repeated opening and closing


 EN ISO 5227
 EN 1670
 Klasse 4
 Korrosionsschutz
corrosion protection

Mit diesem Zertifikat wird bescheinigt, dass die benannten Bänder den Anforderungen des ift-Zertifizierungsprogramms für Bänder QM 343 entsprechen.
 Grundlagen sind durch das Prüflabor erstellte Produktfamilien der sogenannten Bänder, eine Prüfung durch das Prüflabor nach EN 1335, 2002 und EN 1191 unter Berücksichtigung des maximalen Belastungswertes der Bänder, eine werkseitige Produktionskontrolle des Herstellers und eine Fremdüberwachung der Fertigung durch die Überwachungsstelle in der benannten Standorten.
 Die Gültigkeitsdauer des Zertifikates beträgt 5 Jahre. Mit der Erstellung des Zertifikates ist eine regelmäßige Fremdüberwachung des Herstellers verbunden.
 Das Zertifikat darf nur unverändert ververvielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen.
 Das Unternehmen ist berechtigt, die Bänder gemäß der ift-Zeichensetzung mit dem ift-Zertifizierungszeichen zu kennzeichnen.
 Dieses Zertifikat enthält 2 Anlagen:
 1: Übersicht der Produktfamilien
 2: Austauschbarkeit nach EN 14351-1

The present certificate attests that the hinges mentioned fulfil the requirements of the ift-certification scheme for hinges QM 343.
 Basis of the certificate are the product families of the hinges listed that have been compiled by the test laboratory, tests performed by the test laboratory as per EN 1335, 2002 and EN 1191 based on the maximum value of loading, 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-Q-Zert accompanied by the necessary evidence.
 The company is authorised to affix the 'ift-certified'-mark to the hinges 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
 22. November 2017

Christian Kehrer
 Christian Kehrer
 Leiter ift Zertifizierungs- und Überwachungsstelle
Head of ift Certification and Surveillance Body

Ulrich Siebath
 Ulrich Siebath
 Institutsleiter
 Director of Institute

Vertrag-Nr. / Contract No.: 228ift 7031575

Zertifikat-Nr. / Certificate No.: 228ift 7031575-2-2

Gültig bis / Valid: 22.05.2021

ift Rosenheim GmbH Kontakt Prüfung und Kalibrierung – EN ISO/IEC 17025
 Theodor-Greif-Str. 7-9 Tel +49 89 221 261-0 Inspektion – EN ISO/IEC 17020
 D-83020 Rosenheim Fax +49 89 221 261-200 Zertifizierung Produkte – EN ISO/IEC 17025
 www.ift-rosenheim.de www.ift-rosenheim.de Zertifizierung Managementsysteme – EN ISO/IEC 17021




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CEP_299 | C7.140

Zertifikat / Certificate		
Zertifikatsnr. / Certificate No.: 229IFT-7031575-1-2		
Bänder Hinges		<p>Grundlage(n) / Basis: ift-Zertifizierungsprogramm für Bänder (ift-certification scheme for bands) (QM 343) Ausgabe / Issue 2019</p> <p>EN 1191 EN 12400 Klasse 6</p> <p> Dauerfunktion resistance to repeated opening and closing</p> <p>EN ISO 9227 EN 1670 Klasse 5</p> <p> Korrosionsschutz corrosion protection</p>
<p>Produkt product</p> <p>Produktfamilien product families</p> <p>Einsatzbereich field of application</p> <p>Hersteller manufacturer</p> <p>Produktionsstandort production site</p>	<p>ROTO SOLID C7.140</p> <p>Bandsysteme für Bauelemente nach EN 14351-1:2006 + A2:2016 <i>hinge systems for products according EN 14351-1</i></p> <p>Fenster und Türen aus Holz, Kunststoff, Stahl und Aluminium <i>windows and doors with material of wood, PVC, steel and aluminium</i></p> <p>ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT 8401 Kalsdorf bei Graz</p> <p>ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT 8401 Kalsdorf bei Graz</p>	
<p>Mit diesem Zertifikat wird bescheinigt, dass das benannte Bauprodukt den Anforderungen des zugrundeliegenden ift-Zertifizierungsprogramms in der aktuellen Fassung entspricht.</p> <p>Erstellung von Produktfamilien des angeführten Bauproduktes und Erstprüfung durch eine akkreditierte Prüfstelle nach EN 1535:2002 und EN 1191:2013 unter Berücksichtigung des maximalen Belastungswertes.</p> <p>Einführung und Aufrechterhaltung einer werkseigenen Produktionskontrolle durch den Hersteller.</p> <p>Erstinspektion des Werkes und der werkseigenen Produktionskontrolle durch ift-Q-Zert.</p> <p>kontinuierliche Fremdüberwachung des Werkes und der werkseigenen Produktionskontrolle durch ift-Q-Zert.</p> <p>Dieses Zertifikat wurde erstmals am 02.04.2018 ausgestellt und gilt 5 Jahre, wenn sich zwischenzeitlich die Festlegungen in der oben angeführten technischen Spezifikation oder die Herstellungsbedingungen in Werk oder in der werkseigenen Produktionskontrolle selbst nicht wesentlich verändert haben.</p> <p>Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Q-Zert mit dem erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen.</p> <p>Das Unternehmen ist berechtigt, das benannte Bauprodukt gemäß der ift-Zeichensatzung mit dem ift-zertifiziert-Zeichen zu kennzeichnen.</p> <p>Dieses Zertifikat enthält 2 Anlagen.</p>		<p>This certificate attests that the building product mentioned fulfils the requirements of the underlying ift-certification scheme in its current version.</p> <p>compilation of product families of the building product listed and initial type-testing by an accredited testing body as per EN 1535:2002 and EN 1191:2013 considering the maximum value of loading</p> <p>implementation and maintenance of a factory production control by the manufacturer</p> <p>initial inspection of the production site and the factory production control by ift-Q-Zert</p> <p>continuous third-party control of the production site and the factory production control by ift-Q-Zert</p> <p>This certificate was first issued on 02.04.2018 and will remain valid for 5 years, as long as neither the conditions laid down in the technical specification listed above nor the manufacturing conditions in the production site nor the factory production control itself are modified significantly.</p> <p>The reproduction of the certificate without any change from the original is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to ift-Q-Zert accompanied by the necessary evidence.</p> <p>The company is authorized to affix the "ift-certified"-mark to the building product mentioned according to the ift-rules for use of the "ift-certified"-mark.</p> <p>This certificate contains 2 annexes.</p>
<p>ift Rosenheim 02.04.2021</p> <p>Gültig bis / Valid until: 01.04.2026</p> <p>Vertragsnr. / Contract No.: 229IFT 7031575</p>	<p> Christian Kehrer Leiter der ift-Zertifizierungs- und Überwachungsstelle Head of ift Certification and Surveillance</p> <p> Prof. Jörn P. Lass Institutsleiter Director of Institute</p> <p>Produkt / Product: EN 14351-1 Test Report No.: 16-003602-PR01 vom / date: 07.02.2017 17-001047-PR01 vom / date: 02.04.2018</p>	<p></p> <p></p> <p>www.ift-rosenheim.de</p>
<p>ift Rosenheim GmbH Contact: Phone: +49 8031 281-0 Fax: +49 8031 281-290 www.ift-rosenheim.de</p> <p>Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021</p> <p>Notified Body 0194</p> <p></p>		

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

1.6.3 SKG

PS 27



SKG-IKOB PRODUCTCERTIFICAAT 418.651.02		
Uitgegeven op: 10-10-2018		
	Certificaathouder Roto Frank NV Rue du Boesquet 1, Z.I. II B-1400 Nivelles T: +32 (0) 67 89 41 40 E: info.west@roto-frank.com F: www.roto-frank.be	
CERTIFICAAT	Verklaring van SKG-IKOB Dit certificaat is op basis van BRL 3104 afgegeven conform het vigerende Reglement voor Attestering, Certificatie en Inspectie van SKG-IKOB.	
	SKG-IKOB verklaart, dat het door of voor de certificaathouder vervaardigde hang- en sluitwerkproduct:	
	opbouwpaumelle geleverd onder logo / merk:	
	ROTO geleverd onder typeaanduiding en artikelnummers:	
	PS27/SKG voldoet aan Klasse 2 STER volgens BRL 3104 en NEN 5089: 2009 mits het bovenstaand afgebeelde SKG merkteken onuitwisbaar op het product is aangebracht.	
	Voor SKG-IKOB Ir. H.A.J. van Dertel Certificatiemanager	
	De gebruikers van dit certificaat worden geadviseerd om op www.staatswijzer.nl te controleren of dit document nog geldig is. Deze kwaliteitsverklaring bestaat uit 2 bladzijden.	
	SKG-IKOB Certificatie Peperboewing 36 4101 NZ Geldermalsen Postbus 202 4190 CE Geldermalsen T 085-2440100 Info@skgikob.nl www.skgikob.nl	

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89 NN, 105 NN

SKG-IKOB PRODUCTCERTIFICAAT
418.651.08

Utgegeven op: 10-10-2018

 **SKG-IKOB**
Certificatie

Certificaathouder
Roto Frank NV
Rue du Bosquet 1, Z.I. II
B-1400 Nivelles
T: +32 (0) 67 89 41 40
E: info.west@roto-frank.com
I: www.roto-frank.be

 **SKG**

Verklaring van SKG-IKOB
Dit certificaat is op basis van BRL 3104 afgegeven conform het vigerende Reglement voor Attestering, Certificatie en Inspectie van SKG-IKOB.

SKG-IKOB verklaart, dat het door of voor de certificaathouder vervaardigde hang- en sluitwerkproduct:

opbouwpaumelle
geleverd onder logo / merk:

BKV
geleverd onder typeaanduiding en artikelnummers:

105 NN , 89/105 NN

voldeet aan klasse 2 STER volgens BRL 3104 en NEN 5089: 2009 mits het bovenstaand afgebeelde SKG merkteken onuitwisbaar op het product is aangebracht.

Voor SKG-IKOB



ir. H.A.J. van Driel
Certificatiemanager

De gebruikers van dit certificaat worden geadviseerd om op www.sterrenwijzer.nl te controleren of dit document nog geldig is.
Deze kwaliteitsverklaring bestaat uit 2 bladzijden.

CERTIFICAAT

SKG-IKOB Certificatie
Poppenbouwing 66
4191 NZ Geleermolen
Postbus 202
4190 CE Geleermolen
T 086-2440100
info@skgikob.nl
www.skgikob.nl

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117 NN, 117 H

SKG-IKOB PRODUCTCERTIFICAAT
418.652.01

Urgegeven op: 18-03-2016



Certificaathouder
Roto Frank NV
Rue du Bosquet 1, Z.I. II
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E: info.west@roto-frank.com
I: www.roto-frank.be



Verklaring van SKG-IKOB
Dit certificaat is op basis van BRL 3104 afgegeven conform het vigerende Reglement voor Attestering, Certificatie en Inspectie van SKG-IKOB.

SKG-IKOB verklaart, dat het door of voor de certificaathouder vervaardigde hang- en sluitwerkproduct:

opbouwpauselle
geleverd onder logo / merk:

BKV
geleverd onder typeaanduiding en artikelnummers:

117 H , 117 NN

voldeet aan Klasse 2 STER volgens BRL 3104 en NEN 5089: 2009 mits het bovenstaand afgebeelde SKG merkteken onuitwisbaar op het product is aangebracht.

Voor SKG-IKOB



ir. H.A.J. van Driel
Certificatiemanager

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CERTIFICAAT

SKG-IKOB Certificate
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4191 NZ Geldermalsen

Postbus 202
4190 CE Geldermalsen

T 086-2440100
info@skgikob.nl
www.skgikob.nl

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118 Z

SKG-IKOB PRODUCTCERTIFICAAT 418.651.05		
Uitgegeven op: 22-02-2019		
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CERTIFICAAT	Verklaring van SKG-IKOB Dit certificaat is op basis van BRL 3104 afgegeven conform het vigerende Reglement voor Attestering, Certificatie en Inspectie van SKG-IKOB.	
	SKG-IKOB verklaart, dat het door of voor de certificaathouder vervaardigde hang- en sluitwerkproduct:	
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	BKV geleverd onder typeaanduiding en artikelnummers:	
	118 Z voldoet aan klasse 2 STER volgens BRL 3104 en NEN 5089: 2009 mits het bovenstaand afgebeelde SKG merkteken onuitwisbaar op het product is aangebracht.	
	Voor SKG-IKOB  ir. H.A.J. van Dartel Certificatiemanager	
	De gebruikers van dit certificaat worden geadviseerd om op www.stermetwijzer.nl te controleren of dit document nog geldig is. Deze kwaliteitsverklaring bestaat uit 2 bladzijden.	
	SKG-IKOB Certificatie Poppenbouwing 56 4191 NZ Geldermalsen Postbus 202 4100 CE Geldermalsen T 088-2441100 info@sigikob.nl www.sigikob.nl	

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

1.6.4 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.



Hiermit wird bescheinigt, dass



Roto Frank Fenster- und Türtechnologie GmbH
Zentrale
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 : 2015

Zertifikat-Registrier-Nr.	059808 QM15
Revisionsdatum	2019-06-11
Gültig ab	2018-05-18
Gültig bis	2021-05-17
Zertifizierungsdatum	2019-06-11



DQS GmbH



Markus Bleher
Geschäftsführer

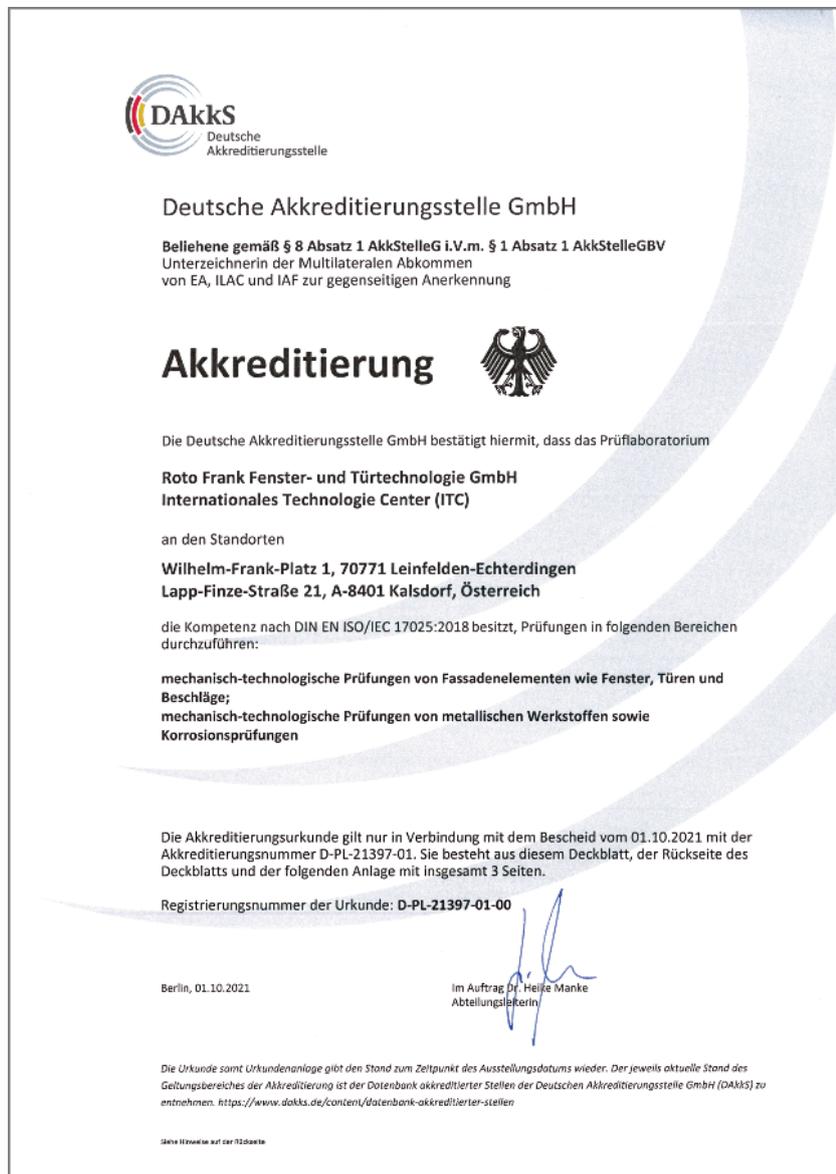
Akkreditierte Stelle: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

1 / 3



1.6.5 International Technology Centre (ITC)

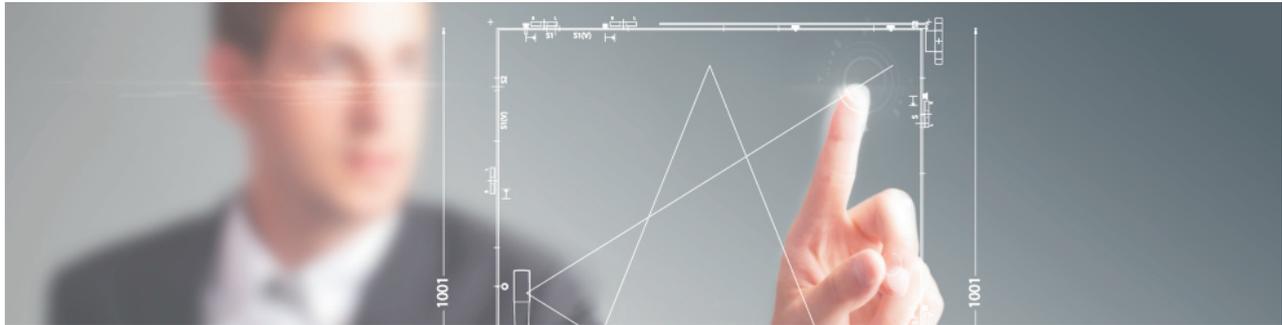
Roto has owned a modern International Technology Centre (ITC) at its Leinfelden headquarters since October 1996. This facility is available for both our own material and product testing as well as for inspecting finished products made by Roto market partners.



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

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

1.7 Roto Con Orders

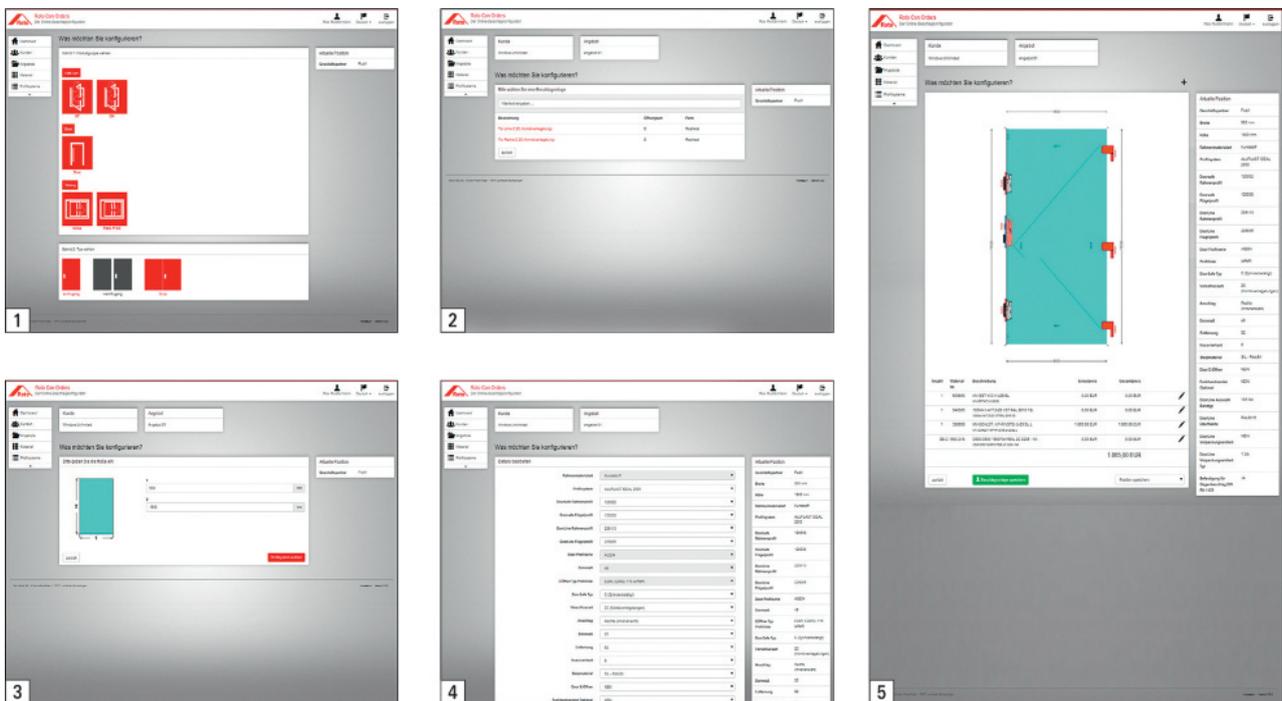


Just four steps for a finished parts list

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

Hardware configuration has never been this easy

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



1. Selection of the product group
2. Selection of the design template
3. Entry of sizes
4. Individual detailed settings and adaptations
5. **Result:** output of a detailed data sheet with a technical illustration and a complete parts list with editable order numbers, descriptions and individual and total prices.



Intelligent additional functions simplify your processes



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

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

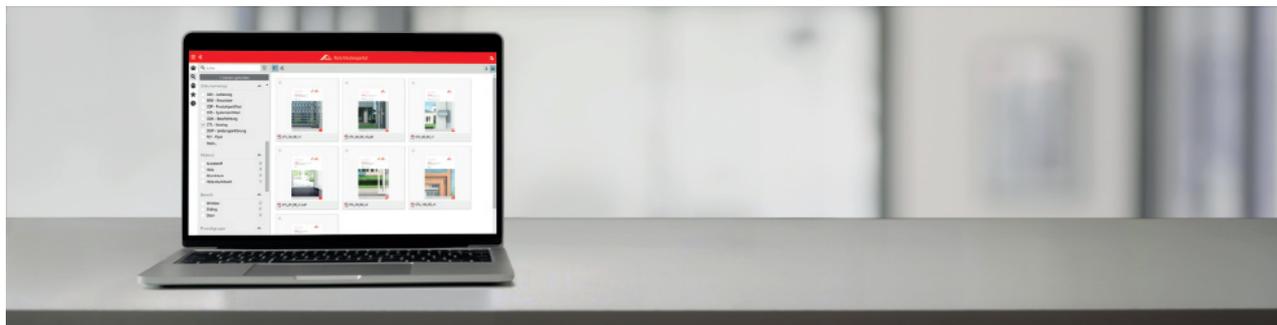
Get started straight away thanks to web-based solution

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



www.roto-frank.com

1.8 Roto media portal



Simple and quick

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

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

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



www.roto-frank.com

Media for Roto Solid

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



www.roto-frank.com | Roto Solid



1.9 Further Roto products

1.9.1 Roto Window

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

Timber and PVC



Roto NX

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



Roto NT

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

Aluminium



Roto AL

Universal hardware for aluminium windows and balcony doors



Roto AL Designo

Concealed hardware for aesthetic aluminium windows and balcony doors

Outward Opening – Hardware systems for outward opening windows



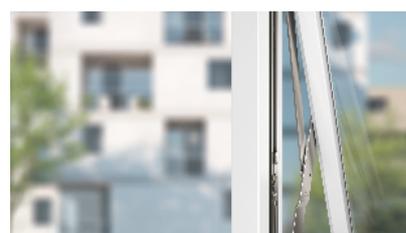
Roto FS Kempton

Stainless-steel friction stays for outward opening windows



Roto PS Aintree

Parallel stainless-steel friction stays for outward opening windows



Roto FRH Uni

Fully reversible hinges for outward opening windows



1.9.2 Roto Sliding

Roto Patio – High-quality sliding windows and doors



Roto Patio Fold

Premium hardware for Fold&Slide systems with a large surface



Roto Patio Life

Comfort hardware for large sliding doors



Roto Patio Lift

Hardware for versatile use in Lift&Slide systems



Roto Patio Alversa

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



Roto Patio Inowa

Intelligent hardware for tightly sealed sliding systems

Roto Inline – Basic sliding windows and doors



Roto Inline

The hardware system for basic sliding windows and sliding doors



1.9.3 Roto Door

Roto Safe – The modular multipoint locking system for doors



Roto Safe H

Mechanical multipoint lockings for lever-handle-operated doors



Roto Safe C

Mechanical multipoint lockings for cylinder-operated doors



Roto Safe E

Electromechanical multipoint lockings for doors



Roto Safe P

Mechanical multipoint lockings for escape and panic doors

Roto Solid – Comprehensive range of door hinges



Roto Solid S

Screw-on hinges for doors



Roto Solid B

Butt hinges for doors



Roto Solid C

Concealed hinges for doors

Roto Eifel – Thresholds for doors and balcony doors



Roto Eifel

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

1.9.4 Roto Equipment

Drive&Control – Electronic components for windows and doors



Roto E-Tec Drive
The concealed drive for windows



Roto E-Tec Control
Wired sensors for security technology and room climate



Roto Com-Tec Sensor
Wireless sensors integrated in hardware for home security

Handles – Handles for all opening types



Roto Swing
The modern handle line



Roto Line
The classic handle line



Roto Samba
The classic yet modern handle line



Roto Freestyle
Solutions for all opening types

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



Roto Glas-Tec
Customised solutions for safe glazing



1.10 Contact

Roto Frank

Fenster- und Türtechnologie GmbH

Wilhelm-Frank-Platz 1

70771 Leinfelden-Echterdingen

Germany

Phone +49 711 7598 0

Fax +49 711 7598 253

info@roto-frank.com

www.roto-frank.com

General information

See page 48

Load-bearing capacity table

See page 49

2 Application diagrams

2.1 General information



Functional safety of the door hinges

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

1. Correct installation of hardware components in accordance with the installation instructions.
2. Correct installation of elements during door installation.
3. The door manufacturer must pass the maintenance and operation instructions and the product liability guidelines (if applicable) on to the user.

Profile classification – application ranges

The individual application diagrams must strictly be complied with.

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

Roto Solid B





Profile overview

See page	54
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218 P

Spare parts	59
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Accessories	60
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Drawings	61
----------	----

318 P

Spare parts	66
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Accessories	67
-------------	----

Drawings	68
----------	----

222 P

Spare parts	75
-------------	----

Accessories	76
-------------	----

Drawings	77
----------	----

322 P

Spare parts	82
-------------	----

Accessories	83
-------------	----

Drawings	84
----------	----

224 A

Accessories	89
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Drawings	90
----------	----

324 A

Accessories	92
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Drawings	93
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130 R

Drawings	95
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3 Roto Solid B – Butt hinges

3.1 Profile overview

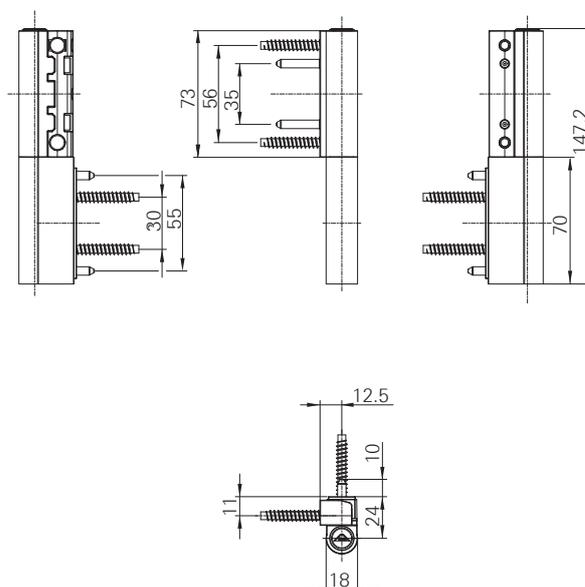
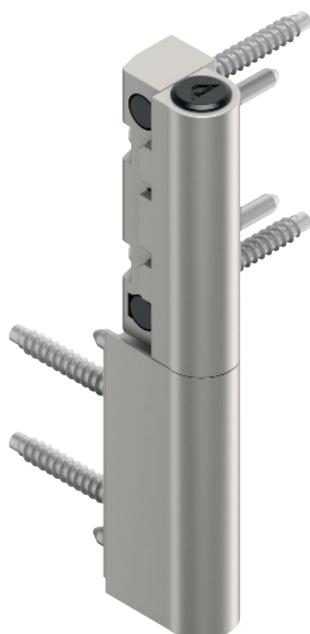
For 218 P, 222 P, 318 P, 322 P

Profile system	Frame number	Leaf number	Version	
			Overlap-screwed	Rebate-screwed
aluplast IDEAL 4000 AD	140x00	140x30		
	140x03	140x31		
	140x07	140x32		
		140x33		
		140x35		
	140x08	140x34		
140x38				
aluplast IDEAL 7000 AD	170x02	170x33		
	170x03	170x35		
		170x39		
aluplast IDEAL 8000 MD	180x05	170x30		
		170x31		
aluplast energeto neo AD	160x01	160x33		
		160x35		
		170x39		
	160x02	160x30		
		160x31		
		160x33		
aluplast energeto neo MD	060x05	160x33		
		160x35		
Deceuninck Elegant MD	5101	5712		
		5713		
	5111	5115		
		5116		
		5712		
	5713			
5140	5115			
5145	5712			
Deceuninck Zendow#neo AD	3104	5209		
	3118	5049		
	5001	5202		
	5002	5205		
5049				
5069				
GEALAN S 9000 MD	6015	6017		
		6065		
	6016	6025		
	6045	6033		
		6067		



Profile system	Frame number	Leaf number	Version	
			Overlap-screwed	Rebate-screwed
GEALAN-LINEAR MD	5020	5029	I	I
	5021	5031		
	5022			
	5036			
	5037			
KBE 76 AD	76101	76204	I	I
Kömmerling 76 AD	76102	76205		
Trocal 76 AD	76103	76206	I	II
		76207		
KBE 88 MD	88172	88274	I	I
Kömmerling 88 MD		882765		
Trocal 88 MD		88276	I	II
		88277		
REHAU S 969 Synego AD	1537105 1539140	1537235	I	I
		1537305		
		1537315		
		1537295		
REHAU S 980 Geneo MD	532015 532305	532136	I	I
		532166	I	III
		532176		
Salamander bluEvolution 82 AD	HO8020	HO8530	I	I
	HO8030	HO8540		
	HO8020	HP8550	I	II
	HO8030	HP8560		
Salamander bluEvolution 82 MD	HO9020	HP8550	I	II
		HP8560	I	
	HO9030	HP8560		
Salamander bluEvolution 92 MD	170420	171030	I	I
		171040	I	II
	170430	171030	I	I
		171040	I	II
Salamander greenEvolution 76 AD	760003	761008	I	I
		761009		
	760011	761014	I	II
		761015		
Salamander greenEvolution 76 MD	760003	761010	I	I
	760004	761008	I	I
		761009		
		761010		
	760008	761014	I	II
	760012	761015		
Schüco LivIng 82 AD	19421	19432	I	I
		19433		
		19452		
		19425		
VEKA Softline 76 AD	101.351	105.400	I	III
	101.354			
VEKA Softline 82 MD	101.290	103.345	I	I
	101.291	103.346		
	101.290	105.380	I	III
	101.291	105.381		

3.2 218 P



Product description

The Roto Solid B | 218 P two-part butt hinge is suitable for PVC entrance doors up to a sash weight of 80 kg.

Butt hinges are very popular thanks to their slim hinge design. This means that they blend harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

A particular highlight is the adjustment mechanism integrated in the hinge roller. It ensures a consistently attractive appearance regardless of the setting, as it prevents gaps and offset outlines.

The rebate-screwed butt hinge is especially suited to doors with panels filling the leaf on both sides and is compatible with hardware grooves of 16, 20 and 24 mm.

The overlap-screwed version ensures ultimate sealing.



Product characteristics



Design

- Consistent, slim butt hinge design with a diameter of 18 mm
- Appearance stays the same regardless of the hinge setting
- Available in various RAL colours and metallic surfaces



Security

- Can be used in burglar inhibiting doors in accordance with RC 2
- Maximum long-term functional performance class tested in accordance with DIN EN 1935 with 200,000 opening cycles
- Corrosion resistance class 5 in accordance with DIN EN 1670

Advantages at a glance

- For entrance doors up to max. 80 kg
- Adjustment mechanism integrated in the hinge roller for continuous height, lateral and gasket compression adjustment
- Appearance stays the same regardless of the hinge setting – no offset outlines and no gap formation between the frame and leaf components
- Simple and fast adjustment without unhinging the door
- Installation either in the rebate or overlap
- Consistent, slim butt hinge design with a diameter of 18 mm

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: $+4 / -2$ mm
- Gasket compression adjustable: ± 1.5 mm



Efficiency

- Direct mounting of the butt hinges in the frame and leaf simplifies installation
- Less work required thanks to preassembly of the hinges
- Drilling jigs simplify installation
- Door leaf is easy to hinge and unhinge – even with a low door lintel



Adjustment

- Adjustment mechanism integrated in the hinge roller for continuous lateral, height and gasket compression adjustment
- Large gasket compression adjustment range of ± 1.5 mm enables high tolerance compensation on the installed door
- Simple and fast adjustment without unhinging the door



Overlap-screwed (screws per hinge: 4x 6.3 x 40)

							N ^o	
Version I	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006803 <input type="checkbox"/>	
				powd-c	Right	1 Piece(s)	2006804 <input type="checkbox"/>	
	RAL 8077	–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006805 <input type="checkbox"/>
					met p	Right	1 Piece(s)	2006806 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black		powd-c	Left	1 Piece(s)	2006796 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006797 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white		powd-c	Left	1 Piece(s)	2006798 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006800 <input type="checkbox"/>
	SF	SF	Special colour		–	Left	1 Piece(s)	2006794 <input type="checkbox"/>
					–	Right	1 Piece(s)	2006795 <input type="checkbox"/>
	–	–	Stainless steel appearance		powd-c	Left	1 Piece(s)	2006807 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006808 <input type="checkbox"/>
					powd-c	Left	1 Piece(s)	2006801 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006802 <input type="checkbox"/>

Rebate-screwed (screws per hinge: 4x 6.3 x 40)

								N ^o
Version I	16	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006799 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006587 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006598 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006609 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006733 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006744 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006755 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006766 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006585 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006697 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006620 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006631 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006777 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006788 <input type="checkbox"/>

								Nº
Version II	20	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006741 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006742 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006743 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006745 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006735 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006736 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006737 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006738 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006732 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006734 <input type="checkbox"/>
		SF	SF	Special colour	powd-c	Left	1 Piece(s)	2006746 <input type="checkbox"/>
		SF	SF	Special colour	powd-c	Right	1 Piece(s)	2006747 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006739 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006740 <input type="checkbox"/>
Version III	24	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006772 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006773 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006774 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006775 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006765 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006767 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006768 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006769 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006763 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006764 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006776 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006778 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006770 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006771 <input type="checkbox"/>



3.2.1 Spare parts

Cover cap



			N ^o
Cover cap	White	24 Piece(s)	2010131 <input type="checkbox"/>
	Black	24 Piece(s)	2010130 <input type="checkbox"/>



Fixing screw



INFO

Screw lengths are profile-related.

			N ^o
Fixing screw	6,3x40	48 Piece(s)	2010148 <input type="checkbox"/>
	6,3x50	48 Piece(s)	2010149 <input type="checkbox"/>
	6,3x60	48 Piece(s)	2010150 <input type="checkbox"/>

Threaded pin

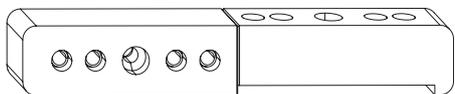


			N ^o
Threaded pin	M6x5	48 Piece(s)	2010151 <input type="checkbox"/>

3.2.2 Accessories

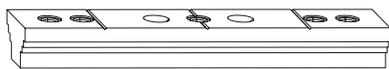
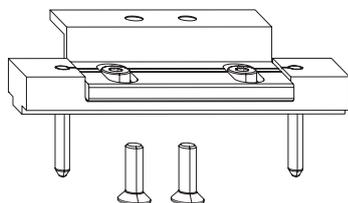
3.2.2.1 Jig

Drilling jig for two-part butt hinge



		Nº
Drilling jig for 218P butt hinge	1 Piece(s)	2009806 <input type="checkbox"/>

Drilling jig set for rebate-screwed version



Drilling jig set, consisting of: 1 leaf component, 1 adapter

Can only be used in conjunction with drilling jig for butt hinge.

			Nº
Drilling jig set	Incl. adapter for rebate-screwed version for 16-24 mm groove	1 Piece(s)	2009850 <input type="checkbox"/>



3.2.3 Drawings

3.2.3.1 Drilling pattern



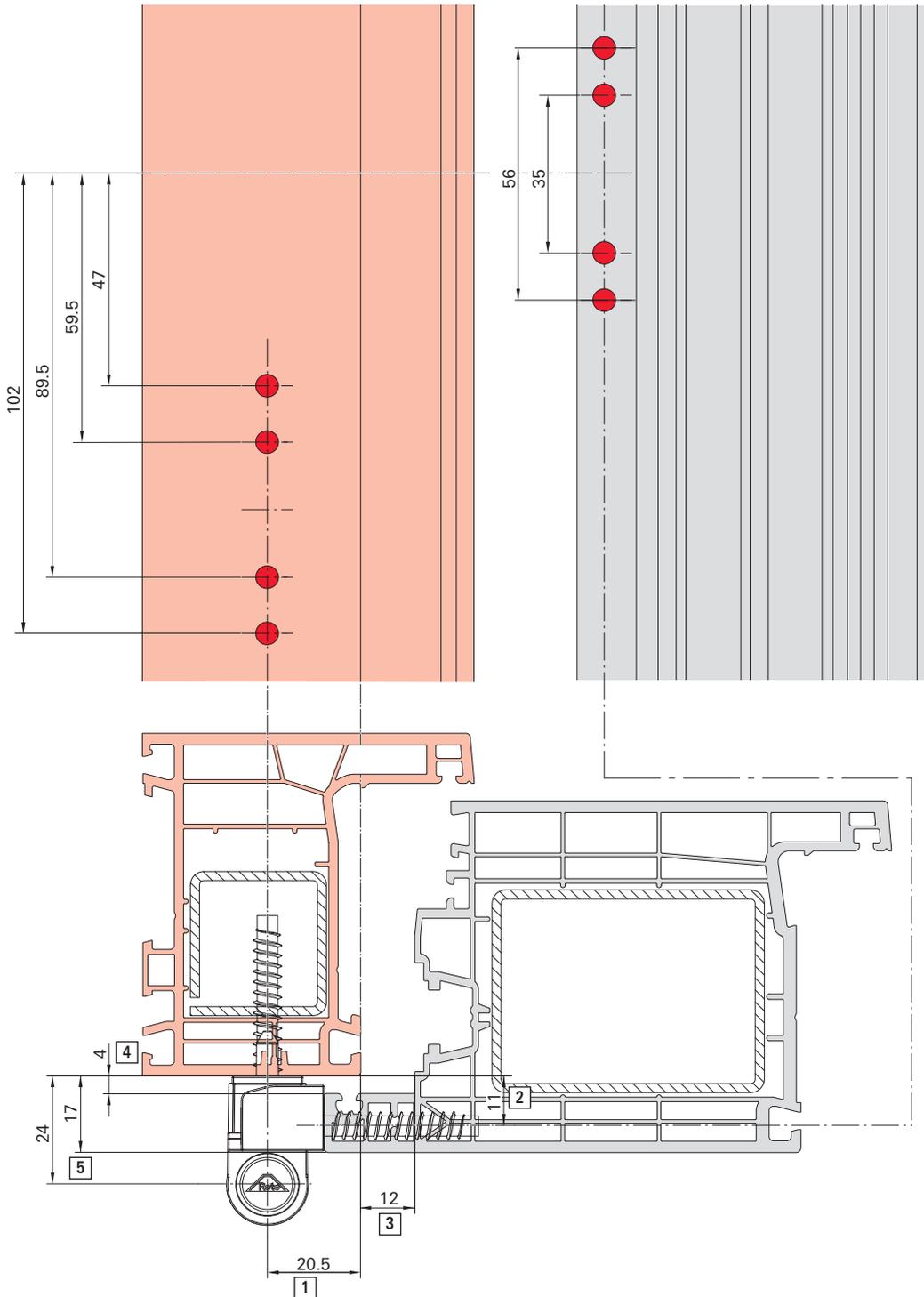
INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



Overlap-screwed



Rebate-screwed

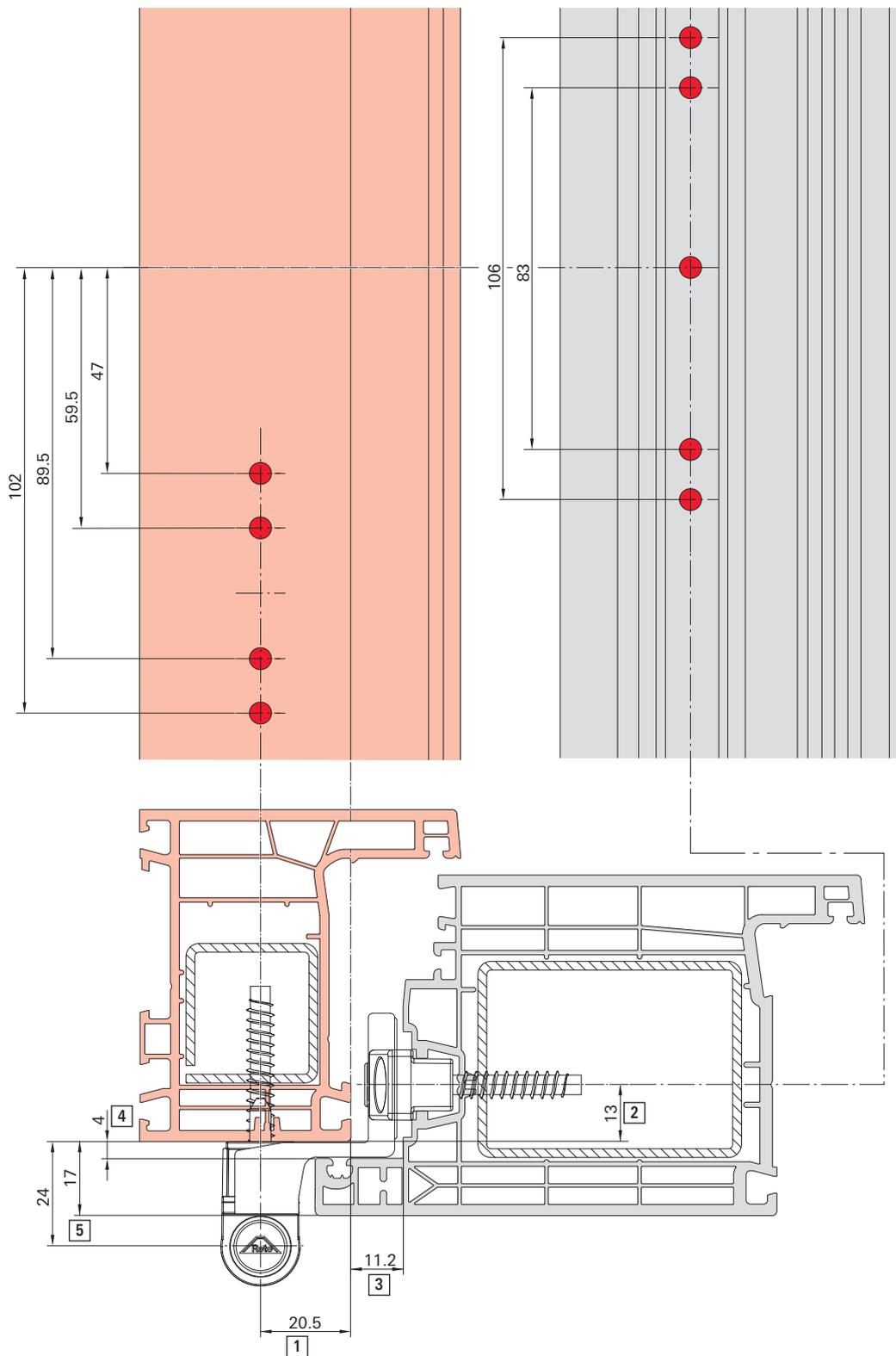
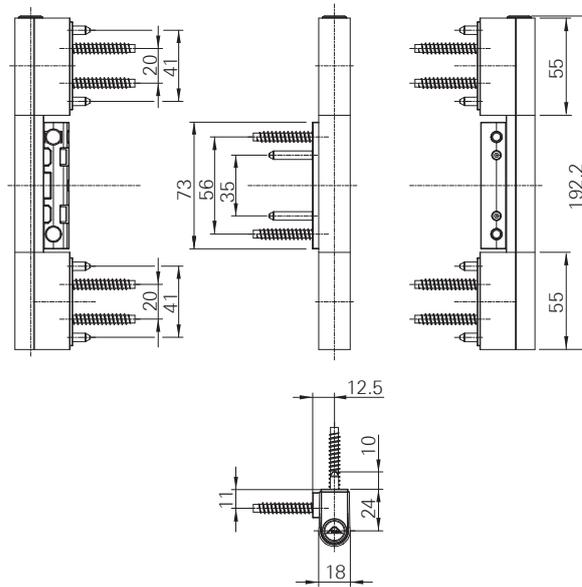


Table for overlap- and rebate-screwed versions

	[1] Frame drilling dimension	[2] Leaf drilling dimension	[3] Rebate clearance	[4] Hinge passage	[5] Overlap
Version I	20.5	13	11.2	4	17
Version II	20.5	13	12	4.5	20
Version III	20.5	15.5	12	4.5	19



3.3 318 P



Product description

The Roto Solid B | 318 P three-part butt hinge is suitable for PVC entrance doors up to a sash weight of 120 kg.

Butt hinges are very popular thanks to their slim hinge design. This means that they blend harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

Alongside the visual advantages, Roto Solid B | 318 P also impresses during installation and adjustment.

A particular highlight is the adjustment mechanism integrated in the hinge roller. It ensures a consistently attractive appearance regardless of the setting, as it prevents gaps and offset outlines.

The rebate-screwed butt hinge is especially suited to doors with panels overlapping the leaf on both sides and is compatible with hardware grooves of 16, 20 and 24 mm. The overlap-screwed version offers ultimate sealing.



Advantages at a glance

- For entrance doors up to max. 120 kg
- Adjustment mechanism integrated in the hinge roller for continuous height, lateral and gasket compression adjustment
- Appearance stays the same regardless of the hinge setting – no offset outlines and no gap formation between the frame and leaf components
- Simple and fast adjustment without unhinging the door
- Installation either in the rebate or overlap
- Consistent, slim butt hinge design with a diameter of 18 mm

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: $+4 / -2$ mm
- Gasket compression adjustable: ± 1.5 mm

Product characteristics



Design

- Consistent, slim butt hinge design with a diameter of 18 mm
- Appearance stays the same regardless of the hinge setting
- Available in various RAL colours and metallic surfaces



Security

- Can be used in burglar inhibiting doors in accordance with RC 2
- Maximum long-term functional performance class tested in accordance with DIN EN 1935 with 200,000 opening cycles
- Corrosion resistance class 5 in accordance with DIN EN 1670



Efficiency

- Direct mounting of the butt hinges in the frame and leaf simplifies installation
- Less work required thanks to preassembly of the hinges
- Drilling jigs simplify installation
- Door leaf is easy to hinge and unhinge – even with a low door lintel



Adjustment

- Adjustment mechanism integrated in the hinge roller for continuous lateral, height and gasket compression adjustment
- Large gasket compression adjustment range of ±1.5 mm enables high tolerance compensation on the installed door
- Simple and fast adjustment without unhinging the door

Overlap-screwed (screws per hinge: 6x 6.3 x 40)

							N ^o
Version I	-	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006595 <input type="checkbox"/>
				powd-c	Right	1 Piece(s)	2006596 <input type="checkbox"/>
	RAL 8077	-	Dark brown	met p	Left	1 Piece(s)	2006597 <input type="checkbox"/>
				met p	Right	1 Piece(s)	2006599 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006590 <input type="checkbox"/>
				powd-c	Left	1 Piece(s)	2006589 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006591 <input type="checkbox"/>
				powd-c	Right	1 Piece(s)	2006592 <input type="checkbox"/>
	SF	SF	Special colour	-	Left	1 Piece(s)	2006600 <input type="checkbox"/>
				-	Left	1 Piece(s)	2006601 <input type="checkbox"/>
	-	-	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006593 <input type="checkbox"/>
				powd-c	Right	1 Piece(s)	2006594 <input type="checkbox"/>

Rebate-screwed (screws per hinge: 6x 6.3 x 40)

								N ^o
Version I	16	-	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006726 <input type="checkbox"/>
		-	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006727 <input type="checkbox"/>
		-	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006728 <input type="checkbox"/>
		-	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006729 <input type="checkbox"/>
		RAL 8007	-	Dark brown	powd-c	Left	1 Piece(s)	2006664 <input type="checkbox"/>
		RAL 8007	-	Dark brown	powd-c	Right	1 Piece(s)	2006675 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006686 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006698 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006642 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006653 <input type="checkbox"/>
		SF	SF	Special colour	powd-c	Left	1 Piece(s)	2006730 <input type="checkbox"/>
		SF	SF	Special colour	powd-c	Left	1 Piece(s)	2006731 <input type="checkbox"/>
		-	-	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006709 <input type="checkbox"/>
		-	-	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006720 <input type="checkbox"/>



								N ^o
Version II	20	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006757 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006758 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006759 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006760 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006750 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006751 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006752 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006753 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006748 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006749 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006761 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006762 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006754 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006756 <input type="checkbox"/>
Version III	24	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006787 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006789 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006790 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006791 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006781 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006782 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006783 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006784 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006779 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006780 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006792 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006793 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006785 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006786 <input type="checkbox"/>

3.3.1 Spare parts

Cover cap



			Nº
Cover cap	White	24 Piece(s)	2010131 <input type="checkbox"/>
	Black	24 Piece(s)	2010130 <input type="checkbox"/>

Fixing screw



INFO

Screw lengths are profile-related.

			Nº
Fixing screw	6,3x40	48 Piece(s)	2010148 <input type="checkbox"/>
	6,3x50	48 Piece(s)	2010149 <input type="checkbox"/>
	6,3x60	48 Piece(s)	2010150 <input type="checkbox"/>

Threaded pin



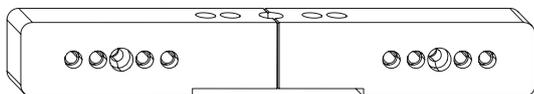
			Nº
Threaded pin	M6x5	48 Piece(s)	2010151 <input type="checkbox"/>



3.3.2 Accessories

3.3.2.1 Jig

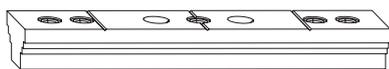
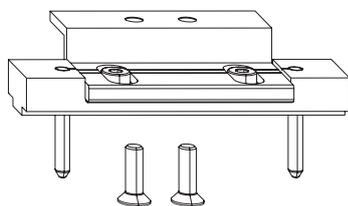
Drilling jig for three-part butt hinge



		Nº
Drilling jig for 318P butt hinge	1 Piece(s)	2009808 <input type="checkbox"/>



Drilling jig set for rebate-screwed version



Drilling jig set, consisting of: 1 leaf component, 1 adapter

Can only be used in conjunction with drilling jig for butt hinge.

			Nº
Drilling jig set	Incl. adapter for rebate-screwed version for 16-24 mm groove	1 Piece(s)	2009850 <input type="checkbox"/>

3.3.3 Drawings

3.3.3.1 Drilling pattern



INFO

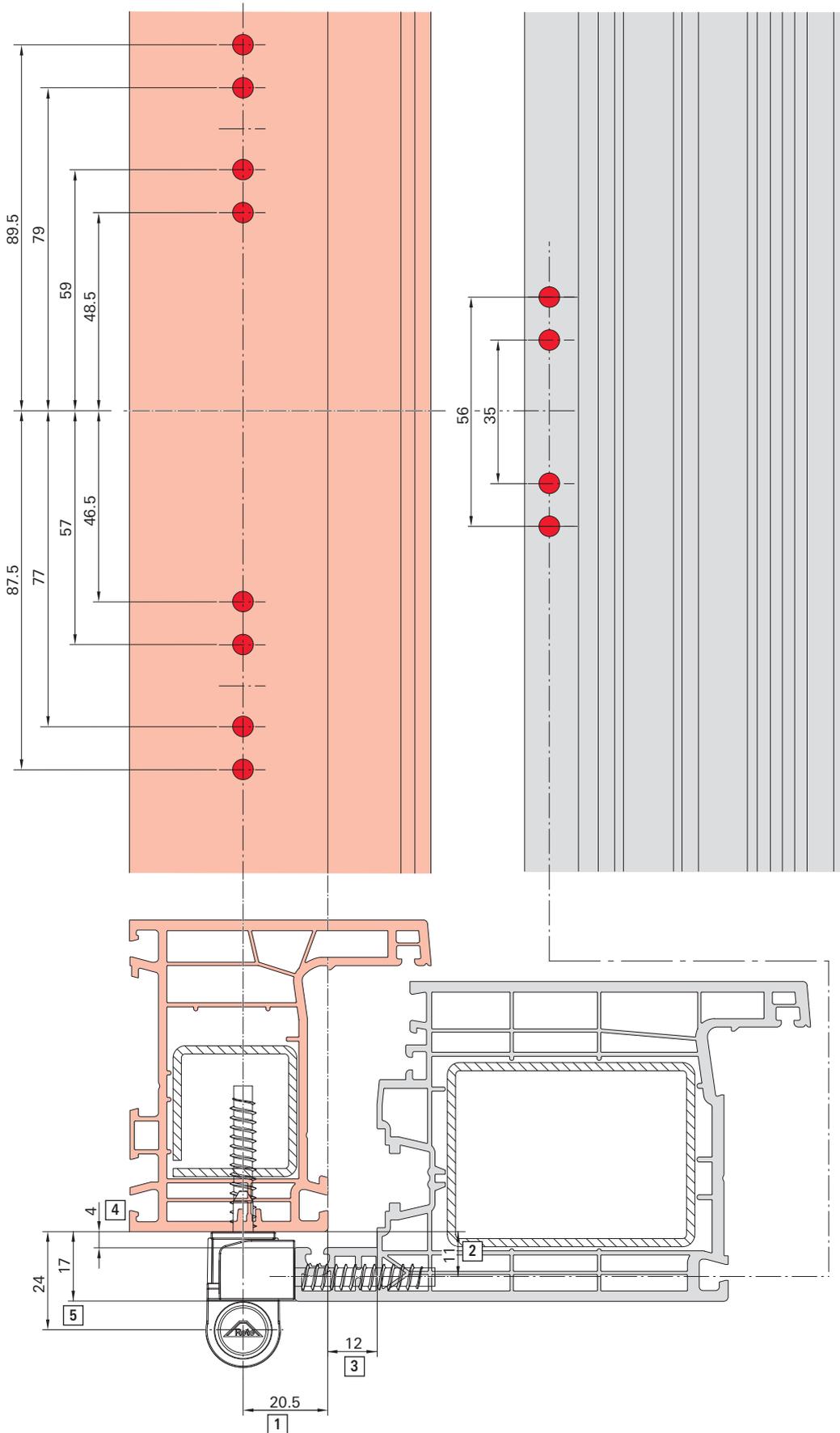
Example diagram.

Drilling patterns are profile-related (available upon request).





Overlap-screwed



Rebate-screwed

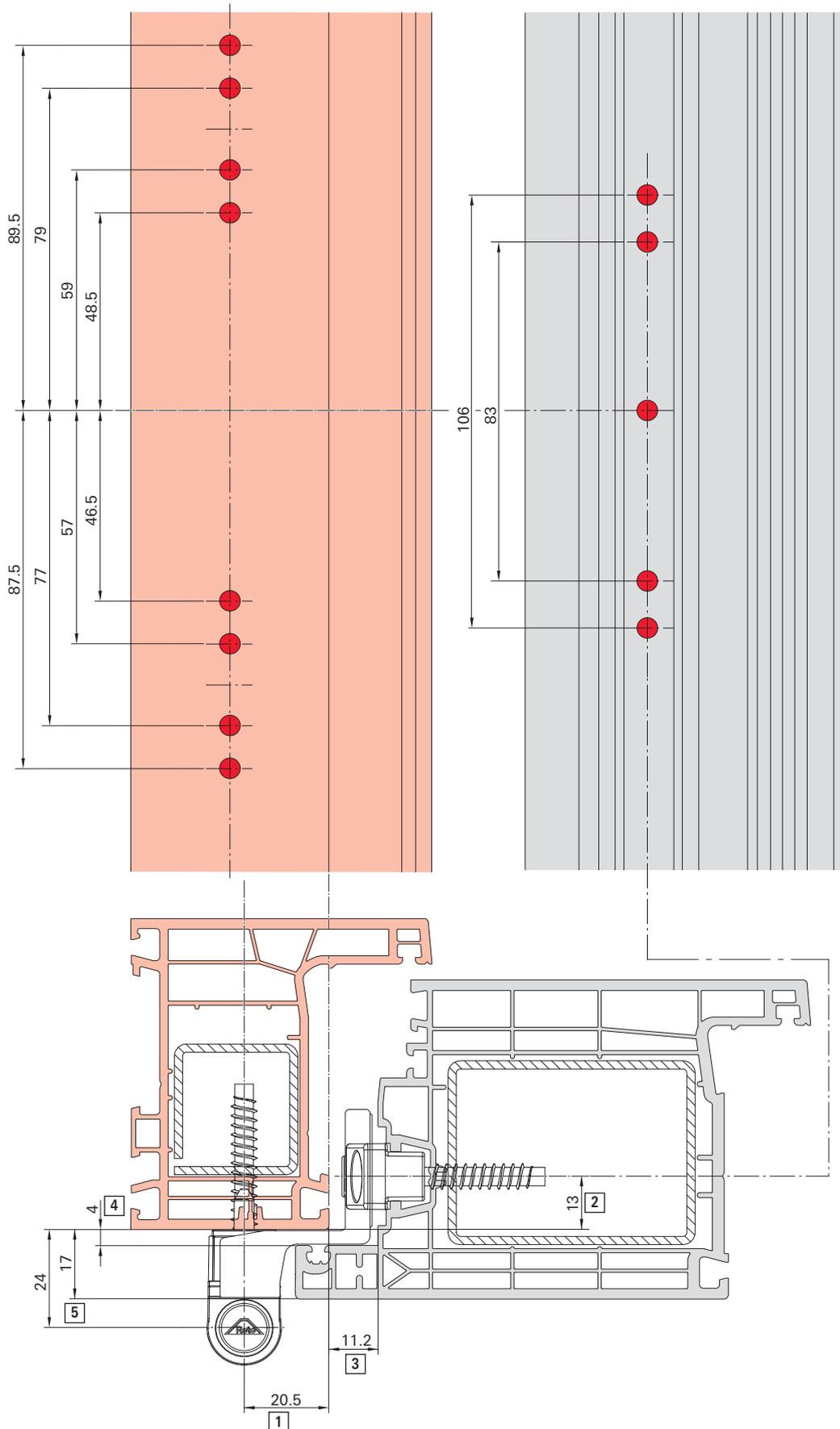


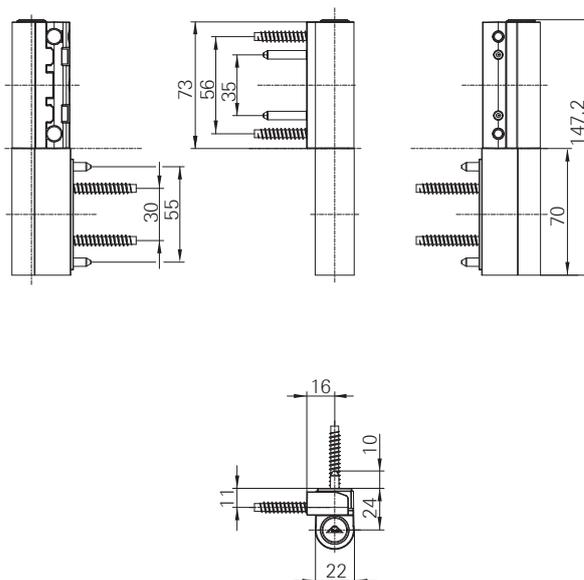
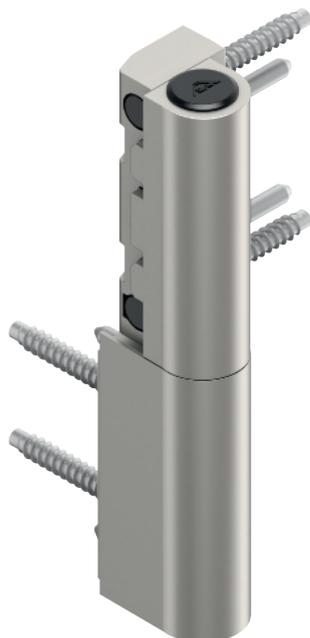


Table for overlap- and rebate-screwed versions

	[1] Frame drilling dimension	[2] Leaf drilling dimension	[3] Rebate clearance	[4] Hinge passage	[5] Overlap
Version I	20.5	13	11.2	4	17
Version II	20.5	13	12	4.5	20
Version III	20.5	15.5	12	4.5	19



3.4 222 P



Product description

The Roto Solid B | 222 P two-part butt hinge is suitable for PVC entrance doors up to a sash weight of 120 kg.

Butt hinges are very popular thanks to their slim hinge design. This means that they blend harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

Alongside the visual advantages, Roto Solid B | 222 P also impresses during installation and adjustment.

A particular highlight is the adjustment mechanism integrated in the hinge roller. It ensures a consistently attractive appearance regardless of the setting, as it prevents gaps and offset outlines.

The rebate-screwed butt hinge is especially suited to doors with panels overlapping the leaf on both sides and is compatible with hardware grooves of 16, 20 and 24 mm. The overlap-screwed version offers ultimate sealing.



Product characteristics



Design

- Consistent, slim butt hinge design with a diameter of 22 mm
- Appearance stays the same regardless of the hinge setting
- Available in various RAL colours and metallic surfaces



Security

- Can be used in burglar inhibiting doors in accordance with RC 2
- Maximum long-term functional performance class tested in accordance with DIN EN 1935 with 200,000 opening cycles
- Corrosion resistance class 5 in accordance with DIN EN 1670

Advantages at a glance

- For entrance doors up to max. 120 kg
- Adjustment mechanism integrated in the hinge roller for continuous height, lateral and gasket compression adjustment
- Appearance stays the same regardless of the hinge setting – no offset outlines and no gap formation between the frame and leaf components
- Simple and fast adjustment without unhinging the door
- Installation either in the rebate or overlap
- Consistent, slim butt hinge design with a diameter of 22 mm

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: $+4 / -2$ mm
- Gasket compression adjustable: ± 1.5 mm



Efficiency

- Direct mounting of the butt hinges in the frame and leaf simplifies installation
- Less work required thanks to preassembly of the hinges
- Drilling jigs simplify installation
- Door leaf is easy to hinge and unhinge – even with a low door lintel



Adjustment

- Adjustment mechanism integrated in the hinge roller for continuous lateral, height and gasket compression adjustment
- Large gasket compression adjustment range of ± 1.5 mm enables high tolerance compensation on the installed door
- Simple and fast adjustment without unhinging the door



Overlap-screwed (screws per hinge: 4x 6.3 x 40)

							N ^o	
Version I	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006704 <input type="checkbox"/>	
				powd-c	Right	1 Piece(s)	2006705 <input type="checkbox"/>	
	RAL 8077	–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006706 <input type="checkbox"/>
					met p	Right	1 Piece(s)	2006707 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white		powd-c	Left	1 Piece(s)	2006696 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006699 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black		powd-c	Left	1 Piece(s)	2006694 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006695 <input type="checkbox"/>
	SF	SF	Special colour		–	Left	1 Piece(s)	2006700 <input type="checkbox"/>
					–	Right	1 Piece(s)	2006701 <input type="checkbox"/>
	–	R03.2	Stainless steel appearance		powd-c	Left	1 Piece(s)	2006708 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006710 <input type="checkbox"/>
					powd-c	Left	1 Piece(s)	2006702 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006703 <input type="checkbox"/>

Rebate-screwed (screws per hinge: 4x 6.3 x 40)

								N ^o
Version I	16	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006611 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006612 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006613 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006614 <input type="checkbox"/>
		RAL 8007	–	Dark brown	powd-c	Left	1 Piece(s)	2006604 <input type="checkbox"/>
		RAL 8007	–	Dark brown	powd-c	Right	1 Piece(s)	2006605 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006606 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006607 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006608 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006609 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006615 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006616 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006610 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006610 <input type="checkbox"/>

								N ^o
Version II	20	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006641 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006643 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006644 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006645 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006635 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006636 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006637 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006638 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006633 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006634 <input type="checkbox"/>
		SF	SF	Special colour	powd-c	Left	1 Piece(s)	2006646 <input type="checkbox"/>
		SF	SF	Special colour	powd-c	Right	1 Piece(s)	2006647 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006639 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006640 <input type="checkbox"/>
Version III	24	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006672 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006673 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006674 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006676 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006666 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006667 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006668 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006669 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006663 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006665 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006677 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006678 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006670 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006671 <input type="checkbox"/>



3.4.1 Spare parts

Cover cap



			Nº
Cover cap	White	24 Piece(s)	2010147 <input type="checkbox"/>
	Black	24 Piece(s)	2010146 <input type="checkbox"/>



Fixing screw



INFO

Screw lengths are profile-related.

			Nº
Fixing screw	6,3x40	48 Piece(s)	2010148 <input type="checkbox"/>
	6,3x50	48 Piece(s)	2010149 <input type="checkbox"/>
	6,3x60	48 Piece(s)	2010150 <input type="checkbox"/>

Threaded pin

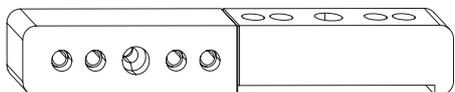


			Nº
Threaded pin	M6x5	48 Piece(s)	2010151 <input type="checkbox"/>

3.4.2 Accessories

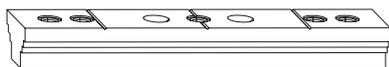
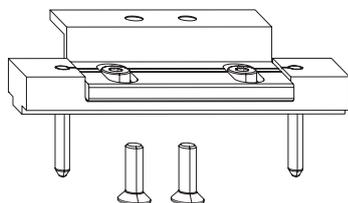
3.4.2.1 Jig

Drilling jig for two-part butt hinge



		Nº
Drilling jig for 222P butt hinge	1 Piece(s)	2009807 <input type="checkbox"/>

Drilling jig set for rebate-screwed version



Drilling jig set, consisting of: 1 leaf component, 1 adapter

Can only be used in conjunction with drilling jig for butt hinge.

			Nº
Drilling jig set	Incl. adapter for rebate-screwed version for 16-24 mm groove	1 Piece(s)	2009850 <input type="checkbox"/>



3.4.3 Drawings

3.4.3.1 Drilling pattern



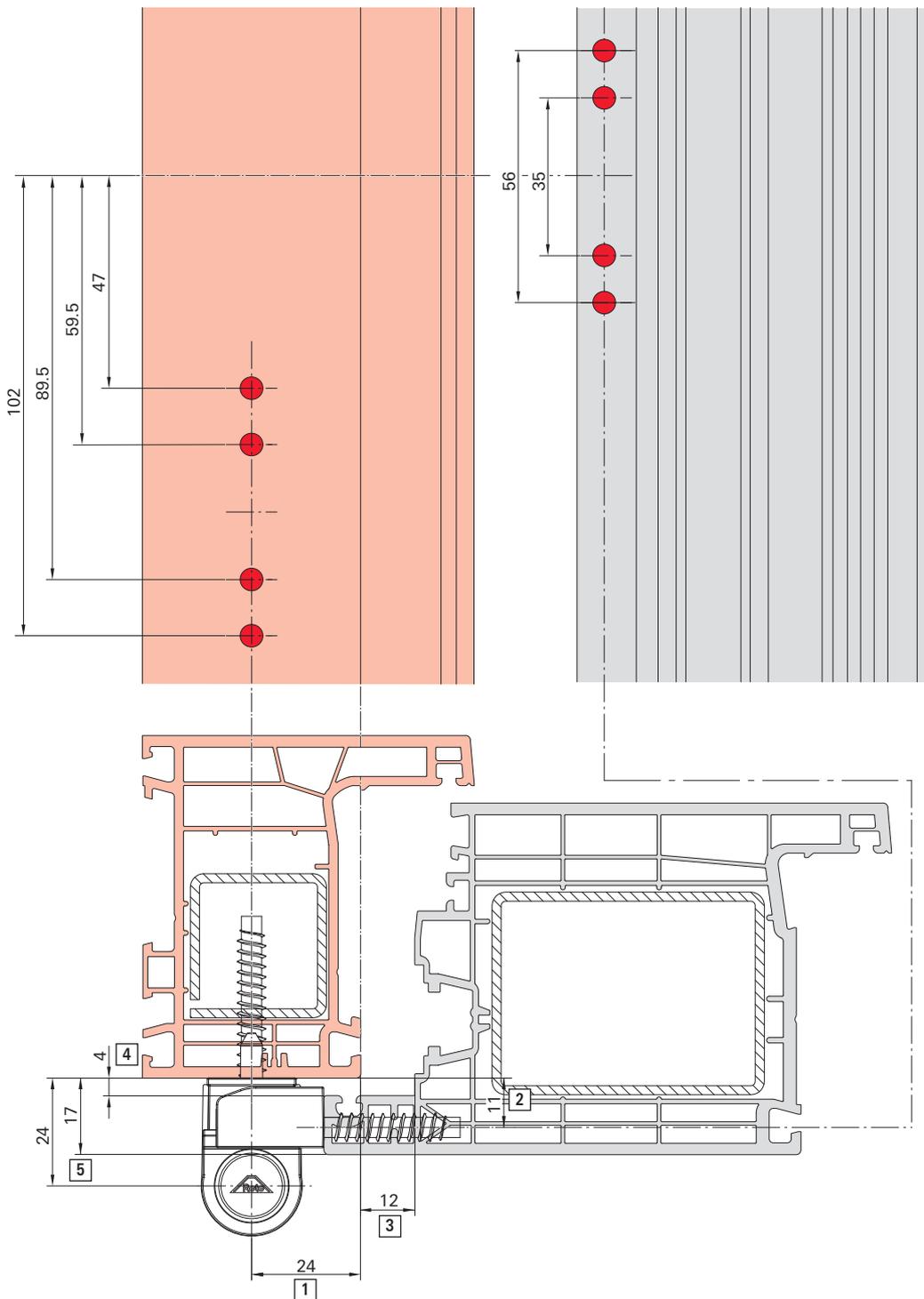
INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



Overlap-screwed



Rebate-screwed

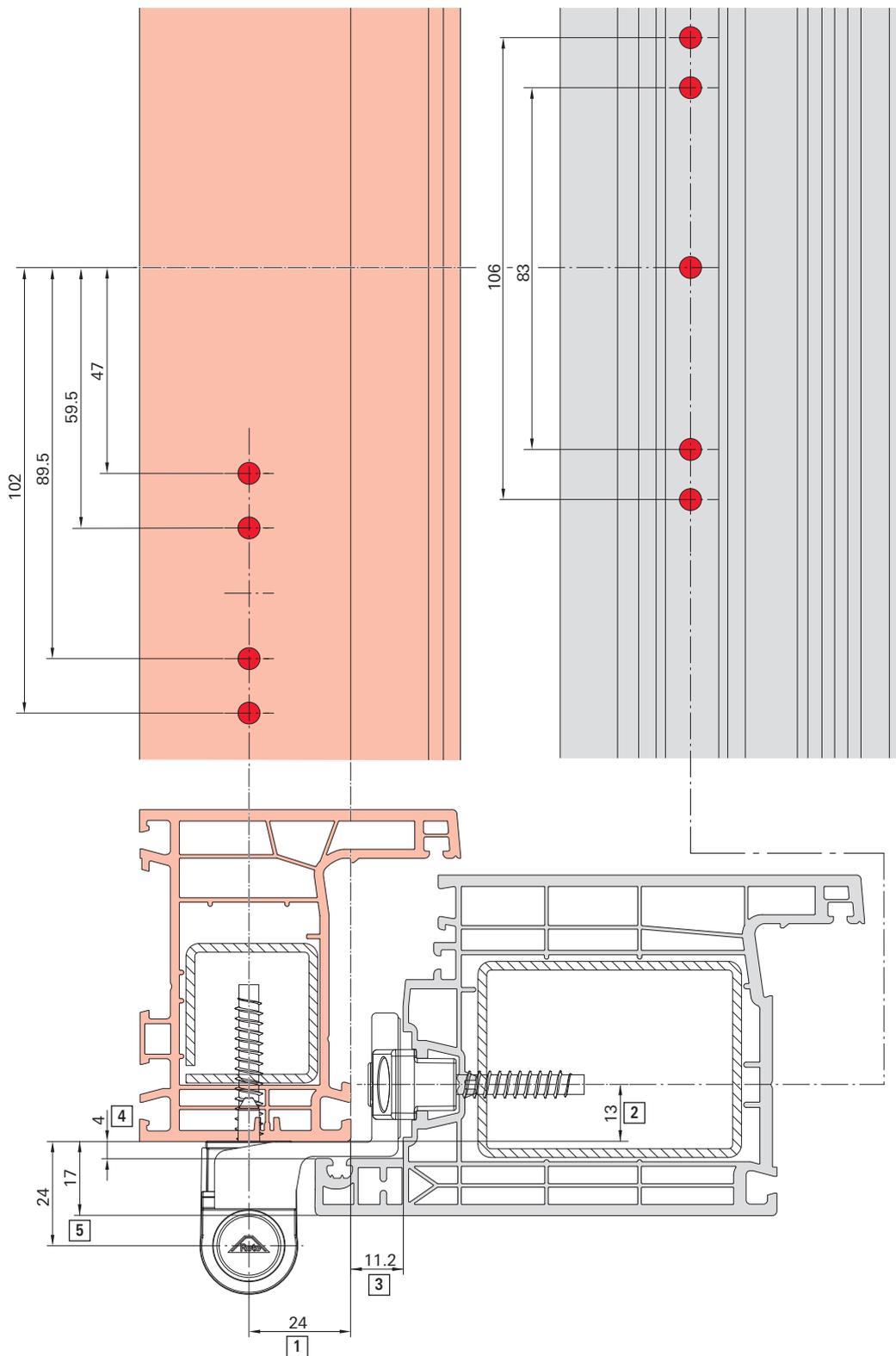
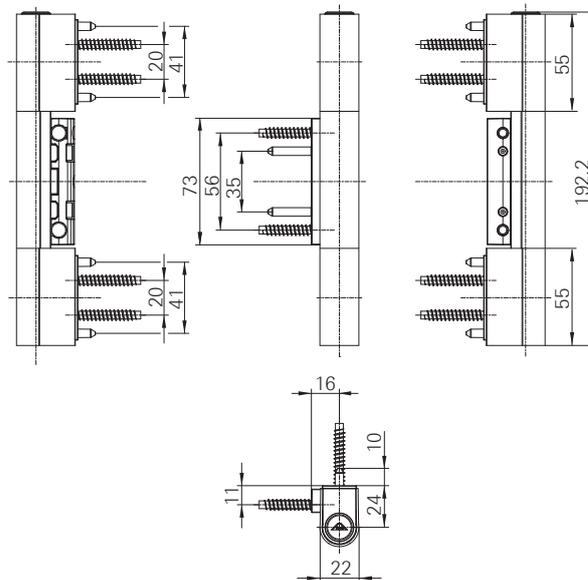


Table for overlap- and rebate-screwed versions

	[1] Frame drilling dimension	[2] Leaf drilling dimension	[3] Rebate clearance	[4] Hinge passage	[5] Overlap
Version I	20.5	13	11.2	4	17
Version II	20.5	13	12	4.5	20
Version III	20.5	15.5	12	4.5	19



3.5 322 P



Product description

The Roto Solid B | 322 P three-part butt hinge is suitable for PVC entrance doors up to a sash weight of 160 kg.

Butt hinges are very popular thanks to their slim hinge design. This means that they blend harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

Alongside the visual advantages, Roto Solid B | 322 P also impresses during installation and adjustment.

A particular highlight is the adjustment mechanism integrated in the hinge roller. It ensures a consistently attractive appearance regardless of the setting, as it prevents gaps and offset outlines.

The rebate-screwed butt hinge is especially suited to doors with panels overlapping the leaf on both sides and is compatible with hardware grooves of 16, 20 and 24 mm. The overlap-screwed version offers ultimate sealing.



Advantages at a glance

- For entrance doors up to max. 160 kg
- Adjustment mechanism integrated in the hinge roller for continuous height, lateral and gasket compression adjustment
- Appearance stays the same regardless of the hinge setting – no offset outlines and no gap formation between the frame and leaf components
- Simple and fast adjustment without unhinging the door
- Installation either in the rebate or overlap
- Consistent, slim butt hinge design with a diameter of 22 mm

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: $+4 / -2$ mm
- Gasket compression adjustable: ± 1.5 mm

Product characteristics



Design

- Consistent, slim butt hinge design with a diameter of 22 mm
- Appearance stays the same regardless of the hinge setting
- Available in various RAL colours and metallic surfaces



Security

- Can be used in burglar inhibiting doors in accordance with RC 2
- Maximum long-term functional performance class tested in accordance with DIN EN 1935 with 200,000 opening cycles
- Corrosion resistance class 5 in accordance with DIN EN 1670



Efficiency

- Direct mounting of the butt hinges in the frame and leaf simplifies installation
- Less work required thanks to preassembly of the hinges
- Drilling jigs simplify installation
- Door leaf is easy to hinge and unhinge – even with a low door lintel



Adjustment

- Adjustment mechanism integrated in the hinge roller for continuous lateral, height and gasket compression adjustment
- Large gasket compression adjustment range of ± 1.5 mm enables high tolerance compensation on the installed door
- Simple and fast adjustment without unhinging the door

Overlap-screwed (screws per hinge: 6x 6.3 x 40)

							N ^o	
Version I	-	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006719 <input type="checkbox"/>	
				powd-c	Right	1 Piece(s)	2006721 <input type="checkbox"/>	
	RAL 8077	-	-	Dark brown	met p	Left	1 Piece(s)	2006722 <input type="checkbox"/>
					met p	Right	1 Piece(s)	2006723 <input type="checkbox"/>
	RAL 9005	R06.2	-	Jet black	powd-c	Left	1 Piece(s)	2006713 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006714 <input type="checkbox"/>
	RAL 9016	R07.2	-	Traffic white	powd-c	Left	1 Piece(s)	2006715 <input type="checkbox"/>
					powd-c	Right	1 Piece(s)	2006716 <input type="checkbox"/>
	SF	SF	-	Special colour	-	Left	1 Piece(s)	2006711 <input type="checkbox"/>
					-	Right	1 Piece(s)	2006712 <input type="checkbox"/>
	-	-	-	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006724 <input type="checkbox"/>
	-	-	-	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006725 <input type="checkbox"/>
	-	-	-	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006717 <input type="checkbox"/>
	-	-	-	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006718 <input type="checkbox"/>

Rebate-screwed (screws per hinge: 6x 6.3 x 40)

								N ^o	
Version I	16	-	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006626 <input type="checkbox"/>	
		-	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006627 <input type="checkbox"/>	
		-	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006628 <input type="checkbox"/>	
		-	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006629 <input type="checkbox"/>	
		RAL 8077	-	-	Dark brown	powd-c	Left	1 Piece(s)	2006619 <input type="checkbox"/>
		RAL 8077	-	-	Dark brown	powd-c	Right	1 Piece(s)	2006621 <input type="checkbox"/>
		RAL 9005	R06.2	-	Jet black	powd-c	Left	1 Piece(s)	2006622 <input type="checkbox"/>
		RAL 9005	R06.2	-	Jet black	powd-c	Right	1 Piece(s)	2006623 <input type="checkbox"/>
		RAL 9016	R07.2	-	Traffic white	powd-c	Left	1 Piece(s)	2006617 <input type="checkbox"/>
		RAL 9016	R07.2	-	Traffic white	powd-c	Right	1 Piece(s)	2006618 <input type="checkbox"/>
		SF	SF	-	Special colour	-	Left	1 Piece(s)	2006630 <input type="checkbox"/>
		SF	SF	-	Special colour	-	Right	1 Piece(s)	2006632 <input type="checkbox"/>
		-	-	-	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006624 <input type="checkbox"/>
		-	-	-	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006625 <input type="checkbox"/>



								Nº
Version II	20	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006657 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006658 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006659 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006660 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006650 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006651 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006652 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006654 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006648 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006649 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006661 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006662 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006655 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006656 <input type="checkbox"/>
Version III	24	–	R01.1	Natural silver	powd-c	Left	1 Piece(s)	2006688 <input type="checkbox"/>
		–	R01.1	Natural silver	powd-c	Right	1 Piece(s)	2006689 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Left	1 Piece(s)	2006690 <input type="checkbox"/>
		–	R03.2	Brass, polished	met p	Right	1 Piece(s)	2006691 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Left	1 Piece(s)	2006681 <input type="checkbox"/>
		RAL 8077	–	Dark brown	powd-c	Right	1 Piece(s)	2006682 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Left	1 Piece(s)	2006683 <input type="checkbox"/>
		RAL 9005	R06.2	Jet black	powd-c	Right	1 Piece(s)	2006684 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Left	1 Piece(s)	2006679 <input type="checkbox"/>
		RAL 9016	R07.2	Traffic white	powd-c	Right	1 Piece(s)	2006680 <input type="checkbox"/>
		SF	SF	Special colour	–	Left	1 Piece(s)	2006692 <input type="checkbox"/>
		SF	SF	Special colour	–	Right	1 Piece(s)	2006693 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Left	1 Piece(s)	2006685 <input type="checkbox"/>
		–	–	Stainless steel appearance	powd-c	Right	1 Piece(s)	2006687 <input type="checkbox"/>



3.5.1 Spare parts

Cover cap



			Nº
Cover cap	White	24 Piece(s)	2010147 <input type="checkbox"/>
	Black	24 Piece(s)	2010146 <input type="checkbox"/>

Fixing screw



INFO

Screw lengths are profile-related.

			Nº
Fixing screw	6,3x40	48 Piece(s)	2010148 <input type="checkbox"/>
	6,3x50	48 Piece(s)	2010149 <input type="checkbox"/>
	6,3x60	48 Piece(s)	2010150 <input type="checkbox"/>

Threaded pin



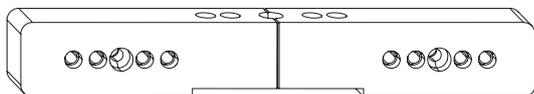
			Nº
Threaded pin	M6x5	48 Piece(s)	2010151 <input type="checkbox"/>



3.5.2 Accessories

3.5.2.1 Jig

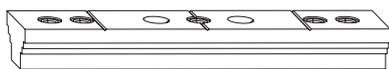
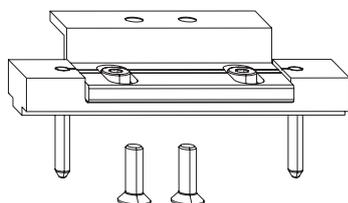
Drilling jig for three-part butt hinge



		Nº
Drilling jig for 322P butt hinge	1 Piece(s)	2009849 <input type="checkbox"/>



Drilling jig set for rebate-screwed version



Drilling jig set, consisting of: 1 leaf component, 1 adapter

Can only be used in conjunction with drilling jig for butt hinge.

			Nº
Drilling jig set	Incl. adapter for rebate-screwed version for 16-24 mm groove	1 Piece(s)	2009850 <input type="checkbox"/>

3.5.3 Drawings

3.5.3.1 Drilling pattern



INFO

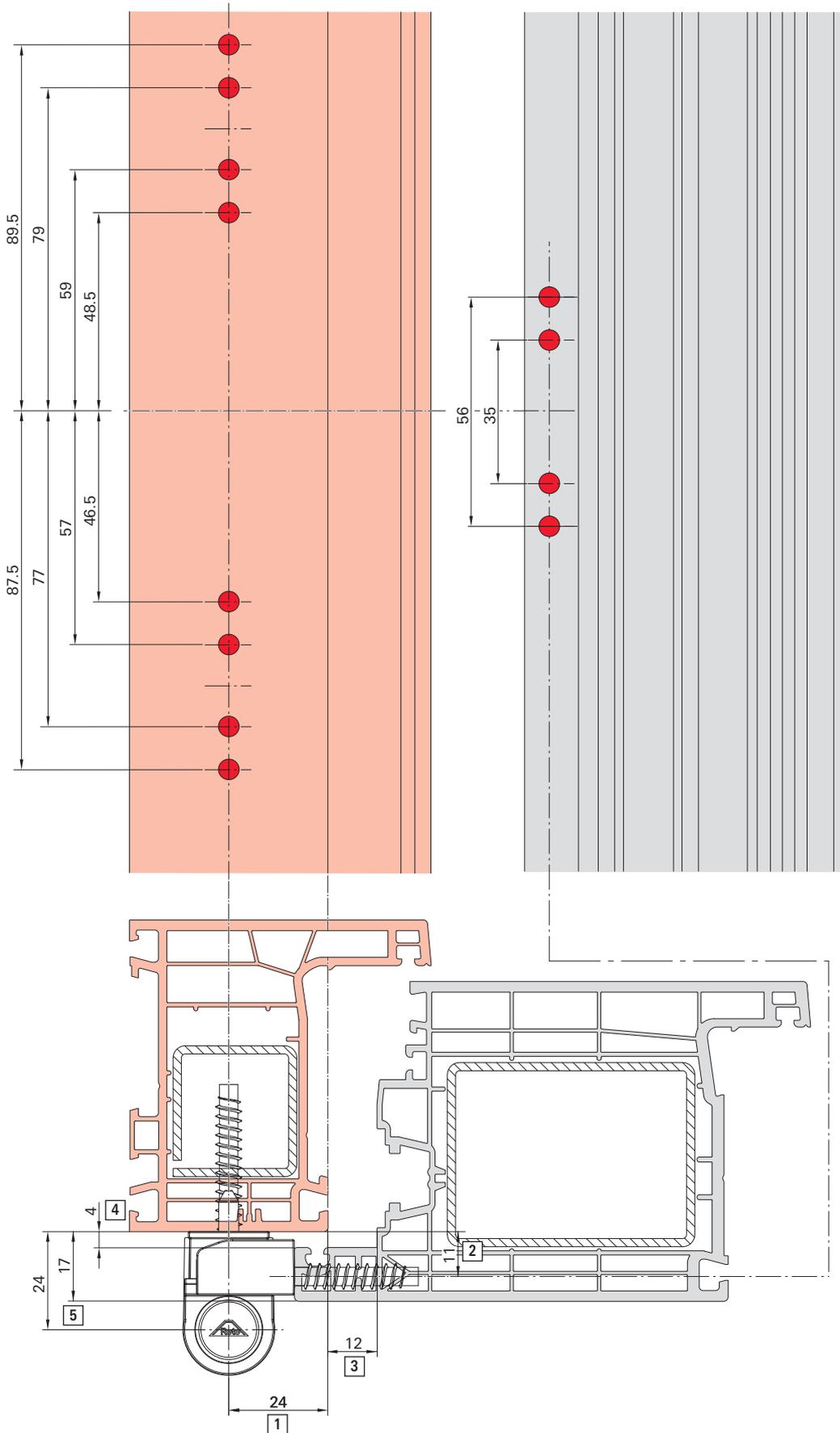
Example diagram.

Drilling patterns are profile-related (available upon request).





Overlap-screwed



Rebate-screwed

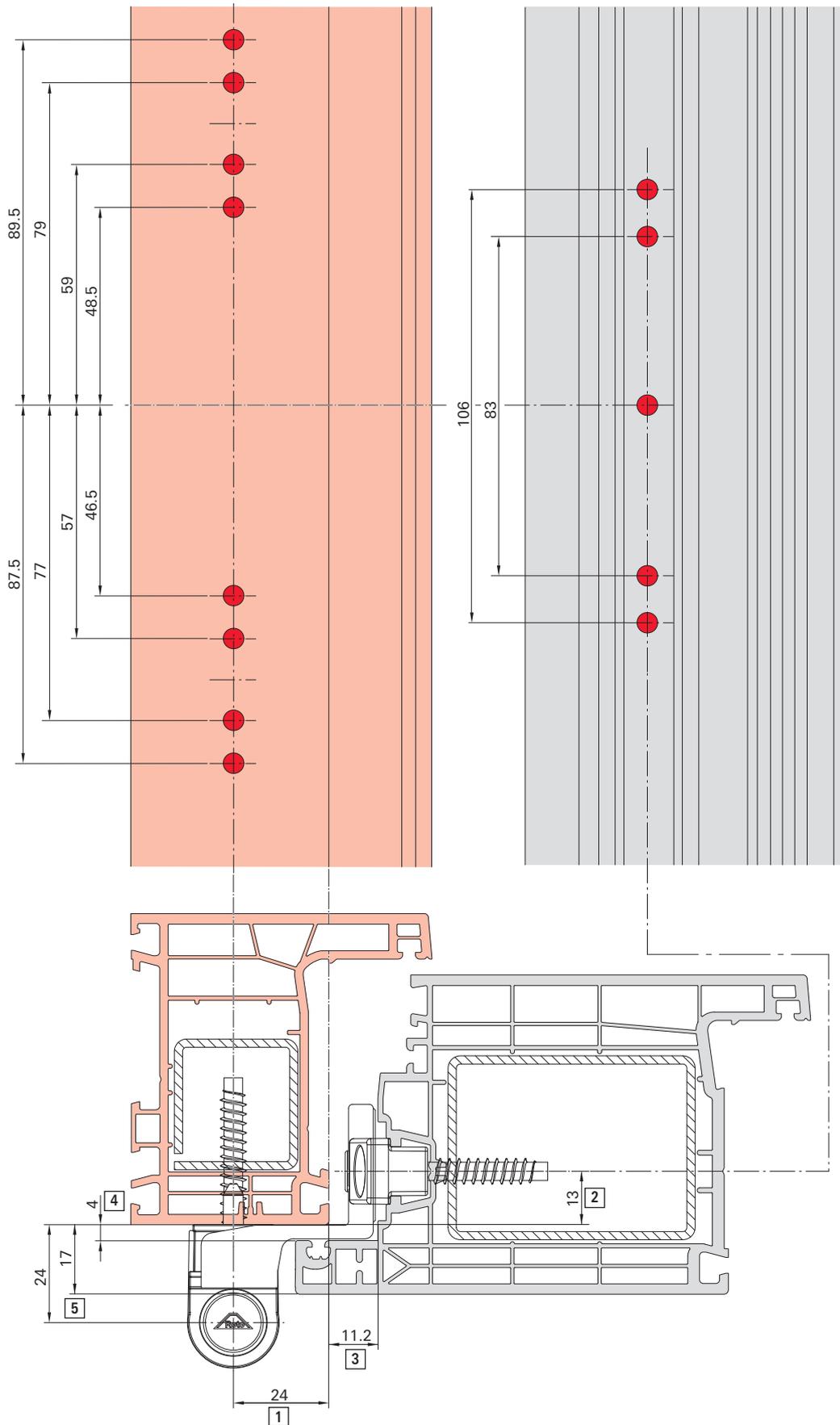


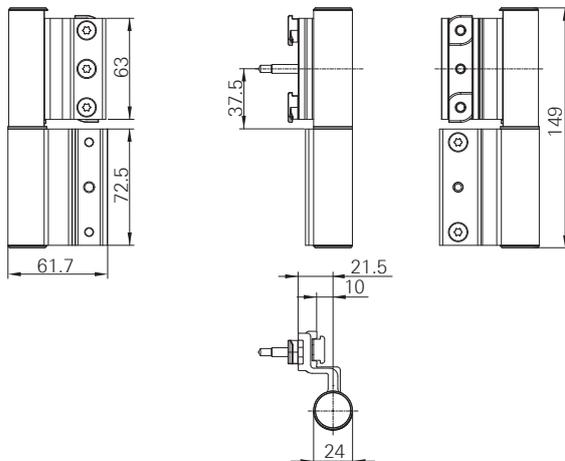


Table for overlap- and rebate-screwed versions

	[1] Frame drilling dimension	[2] Leaf drilling dimension	[3] Rebate clearance	[4] Hinge passage	[5] Overlap
Version I	20.5	13	11.2	4	17
Version II	20.5	13	12	4.5	20
Version III	20.5	15.5	12	4.5	19



3.6 224 A



Product description

The Roto Solid B | 224 A two-part, clampable butt hinge is suitable for aluminium main doors, back doors and balcony doors up to a sash weight of 120 kg.

Butt hinges are very popular thanks to their slim hinge design. This means that they blend harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

Alongside the visual advantages, Roto Solid B | 224 A also impresses during installation and adjustment.

A particular highlight is the adjustment mechanism integrated in the hinge roller. It ensures a consistently attractive appearance regardless of the setting, as it prevents gaps and axis offset.

The preassembled clamping block enables very rapid and simple installation. It is tailored to the system-specific clamping groove of the aluminium profile and does away with the need for additional profile machining. This enables system-adapted versions to be produced for any door upon request.



Product characteristics



Design

- Slim butt hinge design with a diameter of 24 mm
- Appearance stays the same regardless of the hinge setting
- Available in various RAL colours and electrolytically anodised surfaces
- Custom coating of unpainted hinges possible at the window and door manufacturer



Security

- Can be used in burglar inhibiting doors up to RC 3
- Maximum long-term functional performance class certified in accordance with DIN EN 1935
- Corrosion resistance class 5 in accordance with DIN EN 1670
- Load-bearing components made from extruded aluminium for greater stability and reliability

Advantages at a glance

- For main doors, back doors and balcony doors up to 120 kg
- Appearance stays the same regardless of the hinge setting thanks to internal adjustment mechanism
- Rapid and simple installation thanks to preassembled clamping blocks
- Slim butt hinge design with a diameter of 24 mm

Adjustment range

- Laterally adjustable: ± 2.2 mm
- Height adjustable: +5 / -1 mm
- Gasket compression adjustable: -1 mm



Efficiency

- Simple and rapid installation thanks to preassembled clamping blocks
- Installation without additional machining of the aluminium profile
- Pin module and cylindrical pin made from galvanised steel ensure added durability
- Requires no maintenance thanks to high-quality self-lubricating synthetic bush



Adjustment

- Adjustment mechanism integrated in the hinge roller
- Adjustment when fully assembled without undoing the fixing screws
- Continuous height and lateral adjustment possible when the door is closed



						N ^o
Version I	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	2009924 <input type="checkbox"/>
	RAL 8019	R04.1	Grey brown	powd-c	1 Piece(s)	2009927 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	powd-c	1 Piece(s)	2009926 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	2009925 <input type="checkbox"/>
	SF	SF	Special colour	–	1 Piece(s)	2009928 <input type="checkbox"/>
	R00.0	R00.0	Uncoated	–	1 Piece(s)	2009929 <input type="checkbox"/>

3.6.1 Accessories

3.6.1.1 Cover cap



			N ^o
Cover cap	White	24 Piece(s)	2010133 <input type="checkbox"/>
	Black	24 Piece(s)	2010132 <input type="checkbox"/>

3.6.1.2 Spacer ring



			N ^o
Spacer ring	Black	24 Piece(s)	2010144 <input type="checkbox"/>
	White	24 Piece(s)	2010145 <input type="checkbox"/>

3.6.2 Drawings

3.6.2.1 Installation drawings



INFO

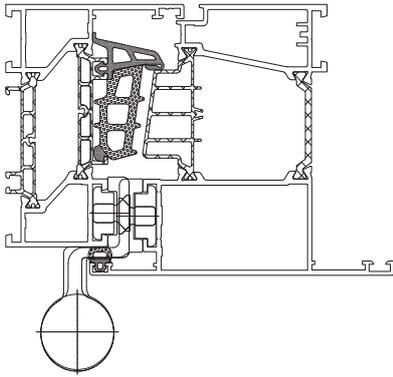
Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.

Can only be used with V.01 frame groove and 15/20 leaf groove.

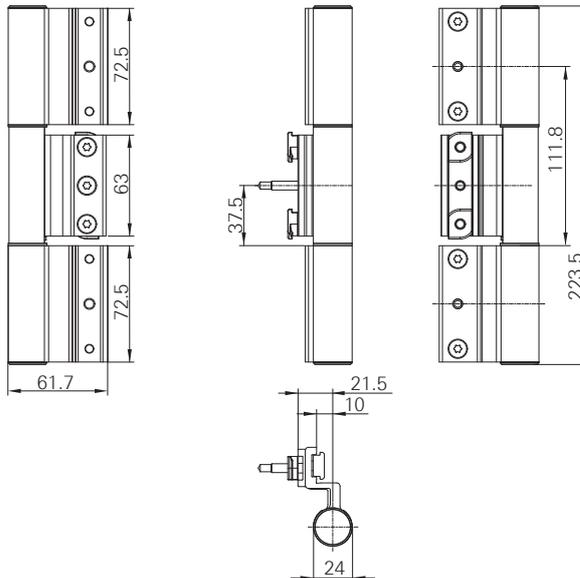
Version I

Aluprof MB-86





3.7 324 A



Product description

The Roto Solid B | 324 A three-part, clampable butt hinge is suitable for aluminium main doors, back doors and balcony doors up to a sash weight of 160 kg.

Butt hinges are very popular thanks to their slim hinge design. This means that they blend harmoniously into any door. A wide range of colours and different coating methods offer a lot of freedom for an individual design.

Alongside the visual advantages, Roto Solid B | 324 A also impresses during installation and adjustment.

A particular highlight is the adjustment mechanism integrated in the hinge roller. It ensures a consistently attractive appearance regardless of the setting, as it prevents gaps and axis offset.

The preassembled clamping block enables very rapid and simple installation. It is tailored to the system-specific clamping groove of the aluminium profile and does away with the need for additional profile machining. This enables system-adapted versions to be produced for any door upon request.



Advantages at a glance

- For main doors, back doors and balcony doors up to 160 kg
- Appearance stays the same regardless of the hinge setting thanks to internal adjustment mechanism
- Rapid and simple installation thanks to preassembled clamping blocks
- Slim butt hinge design with a diameter of 24 mm

Adjustment range

- Laterally adjustable: ± 2.2 mm
- Height adjustable: $+5 / -1$ mm
- Gasket compression adjustable: -1 mm

Product characteristics



Design

- Slim butt hinge design with a diameter of 24 mm
- Appearance stays the same regardless of the hinge setting
- Available in various RAL colours and electrolytically anodised surfaces
- Custom coating of unpainted hinges possible at the window and door manufacturer



Security

- Can be used in burglar inhibiting doors up to RC 3
- Maximum long-term functional performance class certified in accordance with DIN EN 1935
- Corrosion resistance class 5 in accordance with DIN EN 1670
- Load-bearing components made from extruded aluminium for greater stability and reliability



Efficiency

- Simple and rapid installation thanks to preassembled clamping blocks
- Installation without additional machining of the aluminium profile
- Pin module and cylindrical pin made from galvanised steel ensure added durability
- Requires no maintenance thanks to high-quality self-lubricating synthetic bush



Adjustment

- Adjustment mechanism integrated in the hinge roller
- Adjustment when fully assembled without undoing the fixing screws
- Continuous height and lateral adjustment possible when the door is closed

						N ^o
Version I	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	2009930 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	2009931 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	powd-c	1 Piece(s)	2009932 <input type="checkbox"/>
	RAL 8019	R04.1	Grey brown	anod.	1 Piece(s)	2009933 <input type="checkbox"/>
	R00.0	R00.0	Uncoated	–	1 Piece(s)	2009934 <input type="checkbox"/>
	SF	SF	Special colour	–	1 Piece(s)	2009935 <input type="checkbox"/>

3.7.1 Accessories

3.7.1.1 Cover cap



			N ^o
Cover cap	White	24 Piece(s)	2010153 <input type="checkbox"/>
	Black	24 Piece(s)	2010152 <input type="checkbox"/>

3.7.1.2 Spacer ring



			N ^o
Spacer ring	Black	24 Piece(s)	2010144 <input type="checkbox"/>
	White	24 Piece(s)	2010145 <input type="checkbox"/>



3.7.2 Drawings

3.7.2.1 Installation drawings



INFO

Installation examples for the aforementioned versions are shown here.

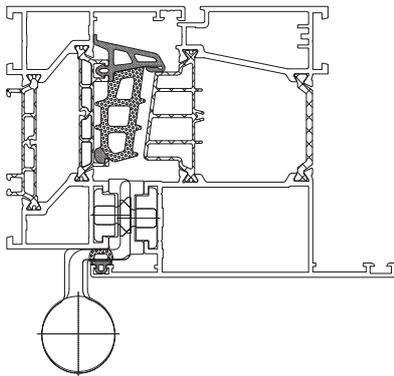
Installation examples for specific profile systems are available upon request.

Can only be used with V.01 frame groove and 15/20 leaf groove.

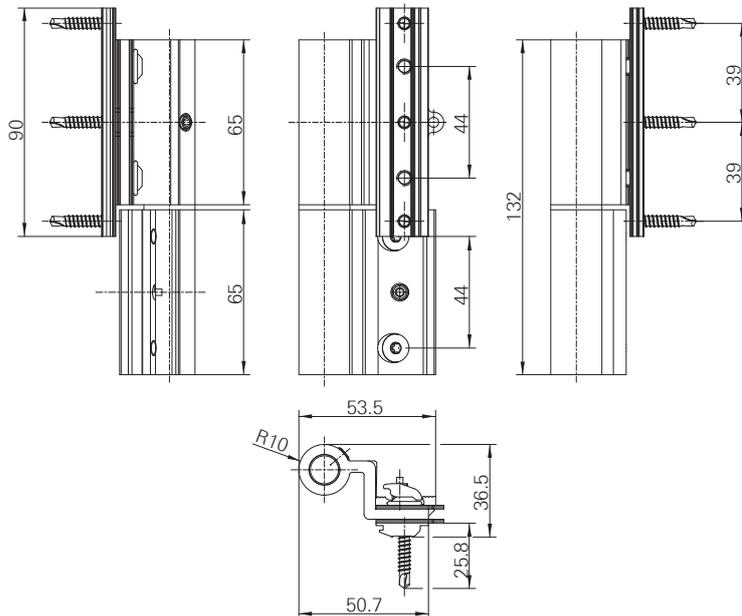


Version I

Aluprof MB-86



3.8 130 R



Product description

The Roto Solid B | 130 R two-part, clampable butt hinge is suitable for aluminium main doors, back doors and balcony doors up to a sash weight of 120 kg.

Butt hinges are in demand in door construction and are enjoying increasing popularity. Not only the appearance is crucial, but the functionality and stability too.

Roto Solid B | 130 R combines the visual advantages of a butt hinge with the benefits of a clamp hinge.



Product characteristics



Design

- Slimline butt hinge design
- Available in various RAL colours and electrolytically anodised surfaces
- Custom coating of unpainted hinges possible at the window and door manufacturer



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Simple and rapid installation thanks to clampable frame component and screw-on leaf component
- Standardised drilling diameter additionally streamlines production



Comfort

- Certified service life of 200,000 opening cycles in accordance with DIN EN 1935
- Axis pin made of stainless steel supports durability
- Maintenance-free thanks to high-quality self-lubricating bearing bush



Adjustment

- Simple alignment of the shadow groove using packing plates

Advantages at a glance

- For aluminium main doors, back doors and balcony doors up to 120 kg
- Can be used in various recessed profiles with 15/20 Euro-groove and V.01 frame groove
- Suitable for inward and outward opening doors

Adjustment range

- Laterally adjustable: ± 1.5 mm



						N ^o
Version II	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	816570 <input type="checkbox"/>
	–	R01.5	Silver	anod.	1 Piece(s)	834669 <input type="checkbox"/>
	RAL 8019	R04.1	Grey brown	powd-c	1 Piece(s)	816569 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	powd-c	1 Piece(s)	816568 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	816000 <input type="checkbox"/>
	R00.0	R00.0	Uncoated	–	1 Piece(s)	834113 <input type="checkbox"/>



3.8.1 Drawings

3.8.1.1 Installation drawings



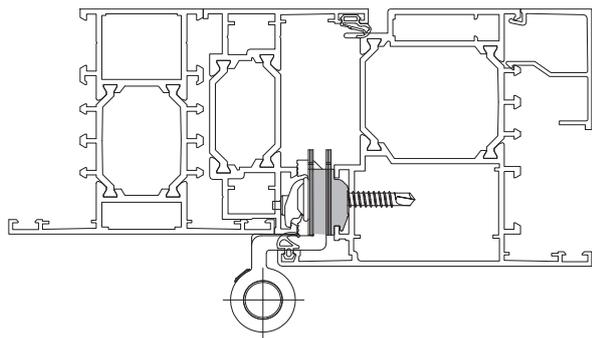
INFO

Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.

Version II

Sapa Avantis 70



Roto Solid S





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120 ATB

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4 Roto Solid S – Screw-on hinges

4.1 Profile overview

For PS 23, PS 27, 150 P



INFO

The profile combinations shown in the overview are a selection of the possible combinations. Other profile combinations are available upon request.

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge	
aluplast energeto neo AD	060x05	160x33	34	17 – 20.5	PS 23	
		160x35	42	17 – 20.5	PS 27	
	160x01	160x33	34	17 – 20.5	PS 23	
		160x02	160x35	42	17 – 20.5	PS 27
		160x45				
	160x46					
	160x01	170x39	42	20 – 23.5	PS 27	
160x02						
aluplast IDEAL 4000	140x00	140x30	42	17 – 20.5	PS 27	
		140x31				
		140x32				
		140x33				
		140x35				
	140x01	140x33	39	17 – 20.5	150 P	
	140x02	140x30	31	17 – 20.5	PS 23	
		140x30	39	17 – 20.5	150 P	
		140x33	42	17 – 20.5	PS 27	
		140x35				
	140x03	140x32	34	17 – 20.5	PS 23	
		140x32	39	17 – 20.5	150 P	
		140x33	42	17 – 20.5	PS 27	
		140x30				
		140x31				
	140x32					
	140x33					
	140x35					
	140x07	140x28	42	17 – 20.5	PS 27	
		140x29				
140x30						
140x31						
140x32						
140x33						
140x35						
140x38						
140x08	140x34	42	17 – 20.5	PS 27		
	140x38					
140x47	140x33	42	17 – 20.5	PS 27		



Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge			
aluplast IDEAL 7000	170x03	170x33	39	20 – 23.5	150 P			
	170x02	170x30	42	23 – 26.5	PS 27			
	170x03	170x33 170x35 170x39						
aluplast IDEAL 8000	180x05	180x30 180x31	42	23 – 26.5	PS 27			
Deceuninck Arcade AD	LA 710	TSA 720	34	20 – 23.5	PS 23			
			42	20 – 23.5	PS 27			
	LA 7160	HA 7130 HA 7140 HA 7130 HA 7140	34	20 – 23.5	PS 23			
			42	20 – 23.5	PS 27			
			42	20 – 23.5	PS 27 150 P			
Deceuninck Eforte AD	LLE 184	TSLE 284	34	20 – 23.5	PS 23			
			42	20 – 23.5	PS 27			
	LLE 684	TSLE 384 TSLE 484 TSLE 384 TSLE 484 TSLE 584	34	20 – 23.5	PS 23			
			41	20 – 23.5	150 P			
			42	20 – 23.5	PS 27			
Deceuninck Elegant MD	5102	5115 5116 5151 5152	34	17 – 20.5	PS 23			
			42	17 – 20.5	PS 27			
						42	17 – 20.5	150 P
			5103	5151	34	17 – 20.5	PS 23	
	42	17 – 20.5			PS 27			
					150 P			
					150 P			
					150 P			
	Deceuninck Zendow 3000	3001	3049	39	17 – 20.5	150 P		
3049			39	20 – 23.5	PS 27			
3052								
3069								
Deceuninck zendow#neo	5001	5511	42	17 – 20.5	PS 27			
	5002	5512						
GEALAN-LINEAR MD	7001	7082	34	14 – 17.5	PS 23			
		7084	42	14 – 17.5	PS 27			
	7005	7088 7090						
GEALAN S 8000 IQ AD	8008	8078	39	14 – 17.5	PS 27			
		8081			150 P			
		8076	40	14 – 17.5	150 P			
	8011	8076	39	14 – 17.5	PS 27			
					150 P			
	8013	8042	39	14 – 17.5	150 P			
42			14 – 17.5	PS 27				





Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge			
GEALAN S 9000 IQ AD	6016	6025	42	17 – 20.5	PS 27			
	6802	6025 6039 6065	42	17 – 20.5	PS 27			
KBE 76 AD Kömmerling 76 AD Trocal 76 AD	76101	76206	42	17 – 20.5	PS 27			
	76102	76204 76205 76207	42	17 – 20.5	150 P			
	76103	76204 76206						
	76106	76204 76206						
KBE 76 MD Kömmerling 76 MD Trocal 76 MD	76171	76206	42	17 – 20.5	PS 27			
	76172	76205 76206 76207 76272						
	88172	88274				41	20 – 23.5	PS 27
		88276				42	20 – 23.5	150 P
REHAU S 969 Synego AD	1537015	1537235	42	20 – 23.5	PS 27			
		1537305						
		1537315						
	1539005	1537295						
1539025	1537235 1537295							
REHAU S 969 Synego MD	1539140	1537235 1537295 1537305 1537315	42	20 – 23.5	PS 27			
REHAU S 980 Geneo MD	1532146	1532015	42	23 – 26.5	PS 27			
	1532305	1562055						
REHAU S 799 Brillant Design	550000	550170	40	17 – 20.5	150 P			
			42	17 – 20.5	PS 27			
	550004	550160	40	17 – 20.5	150 P			
			42	17 – 20.5	PS 27			
	550008	550160	41	17 – 20.5	150 P			
			42	17 – 20.5	PS 27			
	550010	550160	41	17 – 20.5	150 P			
42			17 – 20.5	PS 27				
550420	550160	42	17 – 20.5	PS 27				
550710								
Salamander bluEvolution 73 AD	HP1220	HP1540	39	14 – 17.5	150 P			
		HP1550						
		HP1560						
		HP1730						
		HP1550						
	HP1560	39	14 – 17.5	PS 27				

Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge	
Salamander bluEvolution 82 MD	HO9020	HP8580	42	20 – 23.5	PS 27	
	HO9030	HP8530	34	20 – 23.5	PS 23	
		HP8540				
		HP8550	41	20 – 23.5	150 P	
		HP8530	42	20 – 23.5	PS 27	
		HP8540 HP8550				
Salamander bluEvolution 92 MD	170420	171040	41	20 – 23.5	150 P	
		371040				
	170420	171040	42	20 – 23.5	PS 27	
	170423 170420	371040				
Salamander greenEvolution 76 AD	760003	761008	34	17 – 20.5	PS 23	
			42	17 – 20.5	PS 27	
	760011	761008	34	17 – 20.5	PS 23	
		761010	42	17 – 20.5	PS 27	
		761014 761015				
Salamander greenEvolution 76 MD	760004	761014	34	17 – 20.5	PS 23	
			42	17 – 20.5	PS 27	
	760012	761008	34	17 – 20.5	PS 23	
		761010	42	17 – 20.5	PS 27	
		761014 761015				
Schüco Corona CT 70 AD	8564	8577	39	20 – 23.5	PS 27	
	8597	8583			150 P	
Schüco LivIng 82 AD	9421	9432	34	17 – 20.5	PS 23	
		9433				
		9452				
		9553				
		9432	42	17 – 20.5	150 P	
	9433	9452				
		9543				
		9432	42	20 – 23.5	PS 27	
		9433				
Schüco LivIng 82 NL AD	9490	9433	34	17 – 20.5	PS 23	
			42	17 – 20.5	150 P	
			42	20 – 23.5	PS 27	
VEKA Softline 70 AD	101.201	103.202	39	18.5 – 22	PS 27	
	101.208	103.241	34	18.5 – 22	PS 23	
			39	17 – 20.5	150 P	
				18.5 – 22	PS 27	
	101.214	103.242	42	18.5 – 22	PS 27	
		105.232				
103.241		39	18.5 – 22	PS 27		
VEKA Softline 70 MD	101.280	103.279	42	18.5 – 22	PS 27	





Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge
VEKA Softline 76 AD	101.351	103.385	39	17 – 20.5	PS 27
	101.354	105.400	39	17 – 20.5	PS 27 150 P
VEKA Softline 76 MD	101.351	103.385	39	17 – 20.5	150 P
VEKA Softline 82 MD	101.291	103.345	42	17 – 20.5	PS 27
		105.380			
		105.381			
VEKA Softline 82 NL AD	101.331	103.345	42	17 – 20.5	PS 27
		105.380			
	101.332	103.345	39	17 – 20.5	PS 27
		105.380			





Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



Security

- With proven anti-lifting device to prevent unauthorised unhinging and jemmying
- Sash hinge cover specially secured to prevent removal



Presetting 31 (screws per hinge: 2x 6.3 x 26 and 4x 6.3 x 50)

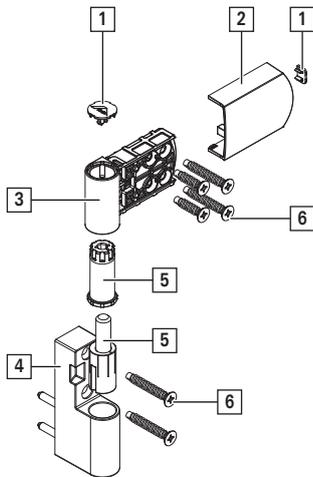
					Nº
14 – 17.5	–	R01.1	Natural silver	1 Piece(s)	894428 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	492517 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492519 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	782925 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492520 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494618 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009369 <input type="checkbox"/>
17 – 20.5	–	R01.1	Natural silver	1 Piece(s)	894420 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	492524 <input checked="" type="checkbox"/>
	–	R01.3	Titanium	1 Piece(s)	623572 <input checked="" type="checkbox"/>
	RAL 8022	R04.4	Black brown	1 Piece(s)	834579 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492556 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492558 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	492559 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494621 <input type="checkbox"/>
–	–	Stainless steel appearance	1 Piece(s)	2009371 <input type="checkbox"/>	
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	796376 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	24 Piece(s)	810932 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	2006368 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	796377 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	810933 <input type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2004688 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009373 <input type="checkbox"/>
20 – 23.5	–	R01.1	Natural silver	1 Piece(s)	894429 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	492565 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492567 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492568 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494623 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009375 <input type="checkbox"/>

Presetting 34 (screws per hinge: 2x 6.3 x 26 and 4x 6.3 x 50)

					N ^o
14 – 17.5	RAL 8077	–	Dark brown	1 Piece(s)	492521 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492522 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494619 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009370 <input type="checkbox"/>
17 – 20.5	–	R01.1	Natural silver	1 Piece(s)	894433 <input type="checkbox"/>
	–	R01.3	Titanium	1 Piece(s)	619180 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492563 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492564 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	535327 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494622 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009372 <input type="checkbox"/>
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	810936 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	810937 <input checked="" type="checkbox"/>
	SF	–	Special colour	1 Piece(s)	2004694 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009374 <input type="checkbox"/>
20 – 23.5	–	R01.1	Natural silver	1 Piece(s)	894421 <input type="checkbox"/>
	–	R01.3	Titanium	1 Piece(s)	824835 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	836591 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	824836 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	836590 <input type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494625 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009376 <input type="checkbox"/>



4.2.1 Spare parts



- [1] Cover cap set
- [2] Sash hinge cover
- [3] Sash hinge
- [4] Frame hinge
- [5] Pin module set
- [6] Fixing screw

[1] Cover cap set



Cover cap set, consisting of: 1 side cover, 1 cover cap

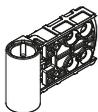
					Nº
Cover cap set			White	24 Piece(s)	450377
			Black	24 Piece(s)	450378

[2] Sash hinge cover



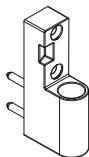
					Nº
Sash hinge cover	RAL 9016	R07.2	Traffic white	12 Piece(s)	601372

[3] Sash hinge



					Nº
Sash hinge	RAL 9016	R07.2	Traffic white	6 Piece(s)	601422

[4] Frame hinge



						N ^o
Frame hinge	14 – 17.5	RAL 9016	R07.2	Traffic white	6 Piece(s)	601374
	17 – 20.5	RAL 9016	R07.2	Traffic white	6 Piece(s)	601418
	20 – 23.5	RAL 9016	R07.2	Traffic white	6 Piece(s)	601420

[5] Pin module set



Pin module set, consisting of: 1 pin module, 1 sash hinge bush

			N ^o
Pin module set	Black	24 Piece(s)	492572
	White	24 Piece(s)	492571

[6] Fixing screw



INFO

Screw lengths are profile-related.

			N ^o
Fixing screw	6,3x26	48 Piece(s)	450380
	6,3x40	48 Piece(s)	450381
		1000 Piece(s)	628901
	6,3x50	48 Piece(s)	450382
		1000 Piece(s)	628902

4.2.2 Accessories

4.2.2.1 Retaining screw

				N ^o
Retaining screw	DIN 7500 M	M3x12	1000 Piece(s)	628899



4.2.2.2 Locking pin



			Nº
Locking pin	SKG **	100 Piece(s)	224749

4.2.2.3 Packing plates



					Nº
1.5	95	23.5	Black	100 Piece(s)	445214
			White	100 Piece(s)	445213

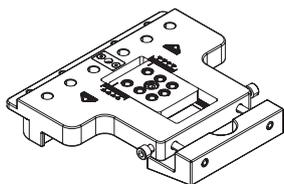


INFO

Use a maximum of 1 packing plate per hinge.

4.2.2.4 Jigs

Drilling jig



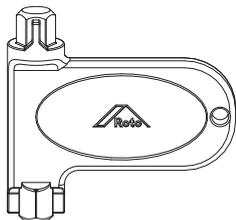
		Nº
Drilling jig	1 Piece(s)	447048

Telescopic jig

Consisting of: 3 drilling jigs, 1 telescopic holder for drilling jigs

		Nº
Telescopic jig	1 Set(s)	447051

4.2.2.5 Adjustment key



		Nº
Gasket compression adjustment key	1 Piece(s)	535285 

4.2.3 Drawings

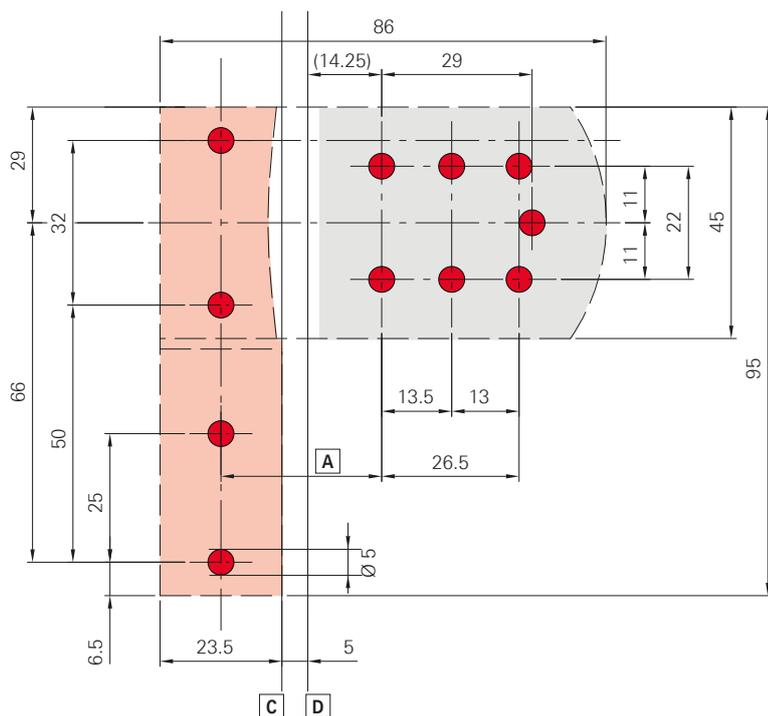
4.2.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



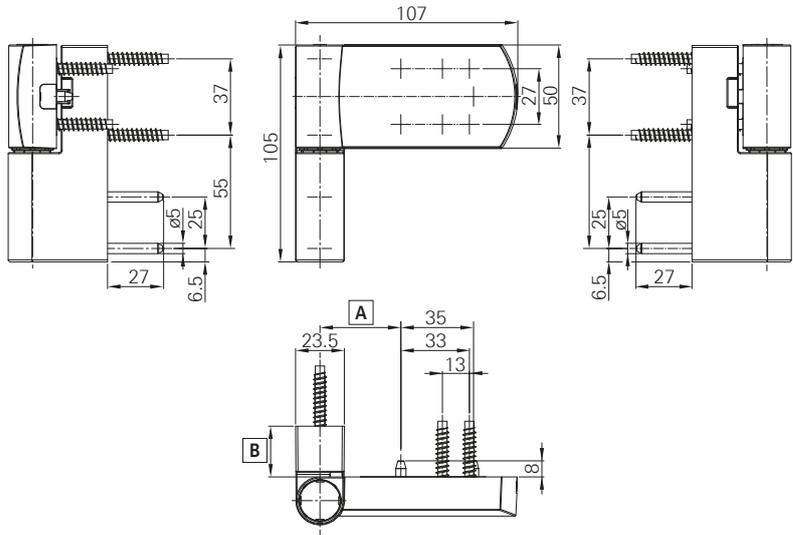
[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body



4.3 PS 27



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | PS 27 two-part screw-on hinge is suitable for timber and PVC entrance doors up to a sash weight of 120 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.

Advantages at a glance

- For timber and PVC entrance doors up to 120 kg
- With proven anti-lifting device to prevent unauthorised unhinging and jemmying
- Overlapping overlap height intervals for greater flexibility

Adjustment range

- Laterally adjustable:
 - Presetting 39: +10 / -5 mm
 - Presetting 42: +7 / -5 mm
- Height adjustable: +5 / -1 mm
- Gasket compression adjustable: ± 1 mm
- Additional gasket compression adjustment of ± 0.75 mm by turning the eccentric frame hinge bush



Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



Security

- With proven anti-lifting device to prevent unauthorised unhinging and jemmying
- SKG**-compatible with retrofit set
- Sash hinge cover specially secured to prevent removal

Presetting 39 (screws per hinge: 6x 6.3 x 40)

					N ^o
14 – 17.5	RAL 8077	–	Dark brown	1 Piece(s)	492574 <input checked="" type="checkbox"/>
	–	R01.3	Titanium	1 Piece(s)	641937 <input checked="" type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	897672 <input type="checkbox"/>
	–	R05.5	Bronze	1 Piece(s)	896509 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	784711 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492575 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494626 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009377 <input type="checkbox"/>
17 – 20.5	–	R01.1	Natural silver	1 Piece(s)	894425 <input type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	896412 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492582 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	782926 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492584 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	1 Piece(s)	492583 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494628 <input type="checkbox"/>
–	–	Stainless steel appearance	1 Piece(s)	2009379 <input type="checkbox"/>	
20 – 23.5	–	R01.1	Natural silver	1 Piece(s)	894423 <input type="checkbox"/>
	–	R01.3	Titanium	1 Piece(s)	641884 <input type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	896413 <input type="checkbox"/>
	–	R05.3	Medium bronze	1 Piece(s)	641905 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492594 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492596 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494630 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009387 <input type="checkbox"/>
23 – 26.5	RAL 8077	–	Dark brown	1 Piece(s)	492607 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492608 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494632 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009389 <input type="checkbox"/>



Presetting 39 (screws per hinge: 6x 6.3 x 50)

					N ^o
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	810941 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	810940 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2004695 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009382 <input type="checkbox"/>

Presetting 42 (screws per hinge: 6x 6.3 x 40)

					N ^o	
14 – 17.5	–	R01.1	Natural silver	1 Piece(s)	894422 <input type="checkbox"/>	
17 – 20.5	RAL 1036	–	Pearl gold	1 Piece(s)	492586 <input checked="" type="checkbox"/>	
14 – 17.5	–	–	Stainless steel appearance	1 Piece(s)	2009378 <input type="checkbox"/>	
	RAL 1036	–	Pearl gold	1 Piece(s)	492576 <input checked="" type="checkbox"/>	
	RAL 8077	–	Dark brown	1 Piece(s)	492578 <input checked="" type="checkbox"/>	
	–	R05.3	Medium bronze	1 Piece(s)	572597 <input checked="" type="checkbox"/>	
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492579 <input checked="" type="checkbox"/>	
	SF	SF	Special colour	1 Piece(s)	494627 <input type="checkbox"/>	
	17 – 20.5	–	R01.1	Natural silver	1 Piece(s)	894426 <input type="checkbox"/>
–		R01.3	Titanium	1 Piece(s)	619466 <input checked="" type="checkbox"/>	
–		R05.3	Medium bronze	1 Piece(s)	572598 <input checked="" type="checkbox"/>	
–		R05.5	Bronze	1 Piece(s)	896506 <input type="checkbox"/>	
RAL 8077		–	Dark brown	1 Piece(s)	492588 <input checked="" type="checkbox"/>	
RAL 9005		R06.2	Jet black	1 Piece(s)	493929 <input checked="" type="checkbox"/>	
RAL 9016		R07.2	Traffic white	1 Piece(s)	492589 <input checked="" type="checkbox"/>	
RAL 9016		R07.2	Traffic white	24 Piece(s)	492590 <input checked="" type="checkbox"/>	
SF		SF	Special colour	1 Piece(s)	494629 <input type="checkbox"/>	
–		–	Stainless steel appearance	1 Piece(s)	2009380 <input type="checkbox"/>	
–		–	Stainless steel appearance	24 Piece(s)	2009381 <input type="checkbox"/>	
18.5 – 22		RAL 8077	–	Dark brown	1 Piece(s)	796373 <input checked="" type="checkbox"/>
		RAL 9016	R07.2	Traffic white	1 Piece(s)	796374 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	810944 <input checked="" type="checkbox"/>	
	–	–	Stainless steel appearance	1 Piece(s)	2009385 <input type="checkbox"/>	
	–	–	Stainless steel appearance	24 Piece(s)	2009386 <input type="checkbox"/>	
	20 – 23.5	–	R01.1	Natural silver	1 Piece(s)	894424 <input type="checkbox"/>
RAL 7016		R02.2	Anthraccite grey	1 Piece(s)	2004857 <input type="checkbox"/>	
RAL 1036		–	Pearl gold	1 Piece(s)	492599 <input checked="" type="checkbox"/>	
–		R05.3	Medium bronze	1 Piece(s)	572599 <input checked="" type="checkbox"/>	
–		R05.5	Bronze	1 Piece(s)	896507 <input type="checkbox"/>	
RAL 8077		–	Dark brown	1 Piece(s)	492600 <input checked="" type="checkbox"/>	
RAL 9001		R07.3	Cream	1 Piece(s)	492602 <input checked="" type="checkbox"/>	
RAL 9016		R07.2	Traffic white	1 Piece(s)	492603 <input checked="" type="checkbox"/>	
RAL 9016		R07.2	Traffic white	24 Piece(s)	492604 <input checked="" type="checkbox"/>	
SF		SF	Special colour	1 Piece(s)	494631 <input type="checkbox"/>	
–		–	Stainless steel appearance	1 Piece(s)	2009388 <input type="checkbox"/>	

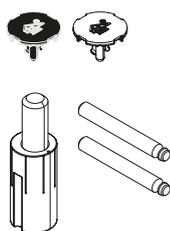


					N ^o
23 – 26.5	–	R01.1	Natural silver	1 Piece(s)	894427 <input type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	2008492 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	492609 <input checked="" type="checkbox"/>
	–	R05.5	Bronze	1 Piece(s)	896508 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	492610 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	796004 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492611 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	620902 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	494633 <input type="checkbox"/>
–	–	Stainless steel appearance	1 Piece(s)	2009390 <input type="checkbox"/>	

Presetting 42 (screws per hinge: 6x 6.3 x 50)

					N ^o
17 – 20.5	RAL 9016	R07.2	Traffic white	24 Piece(s)	567190 <input type="checkbox"/>
	RAL 8077	–	Dark brown	24 Piece(s)	567319 <input type="checkbox"/>
	–	R01.1	Natural silver	1 Piece(s)	894434 <input type="checkbox"/>
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	796373 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	796374 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	810944 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2004696 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009385 <input type="checkbox"/>
20 – 23.5	–	–	Stainless steel appearance	24 Piece(s)	2009386 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	806920 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	806923 <input type="checkbox"/>
	RAL 8016	R07.2	Traffic white	24 Piece(s)	806924 <input type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	806919 <input type="checkbox"/>

SKG retrofit set**

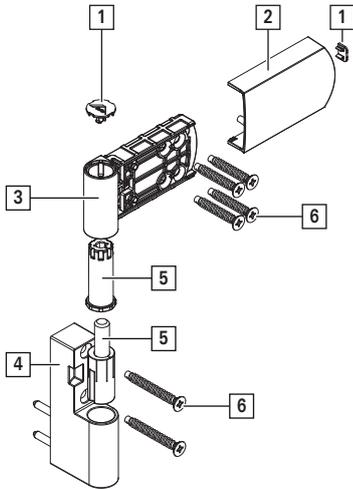


SKG** retrofit set, consisting of: 1 black cover cap, 1 white cover cap, 1 tapered bush, 2 locking pins, 1 installation instructions

		N ^o
SKG** retrofit set PS 27	1 Piece(s)	862477 <input type="checkbox"/>



4.3.1 Spare parts



- [1] Cover cap set
- [2] Sash hinge cover
- [3] Sash hinge
- [4] Frame hinge
- [5] Pin module set
- [6] Fixing screw

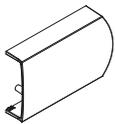
[1] Cover cap set



Cover cap set, consisting of: 1 side cover, 1 cover cap

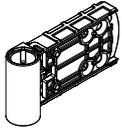
			Nº
Cover cap set	White	24 Piece(s)	450377
	Black	24 Piece(s)	450378

[2] Sash hinge cover



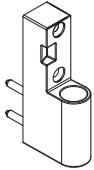
					Nº
Sash hinge cover	RAL 8077	–	Dark brown	12 Piece(s)	601425
	RAL 9016	R07.2	Traffic white	12 Piece(s)	601424

[3] Sash hinge



					Nº
Sash hinge	RAL 9016	R07.2	Traffic white	6 Piece(s)	601434

[4] Frame hinge



						Nº
Frame hinge	14 – 17.5	RAL 9016	R07.2	Traffic white	6 Piece(s)	601426
	17 – 20.5	RAL 9016	R07.2	Traffic white	6 Piece(s)	601428
	18.5 – 22	RAL 9016	R07.2	Traffic white	6 Piece(s)	810948
	20 – 23.5	RAL 9016	R07.2	Traffic white	6 Piece(s)	601430

[5] Pin module set



Pin module set, consisting of: 1 pin module, 1 sash hinge bush

			Nº
Pin module set	Black	24 Piece(s)	492613
	White	24 Piece(s)	492612



[6] Fixing screw



INFO

Screw lengths are profile-related.

			Nº
Fixing screw	6,3x26	48 Piece(s)	450380
	6,3x40	48 Piece(s)	450381
		1000 Piece(s)	628901
	6,3x50	48 Piece(s)	450382
		1000 Piece(s)	628902



4.3.2 Accessories

4.3.2.1 Retaining screw

				Nº
Retaining screw	DIN 7500 M	M3x12	1000 Piece(s)	628899

4.3.2.2 Locking pin



			Nº
Locking pin	SKG **	100 Piece(s)	224749

4.3.2.3 Packing plates



					Nº
1.5	105	23.5	Black	100 Piece(s)	445226
			White	100 Piece(s)	445225

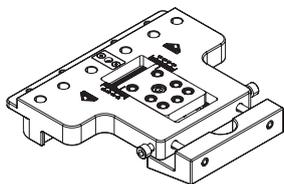


INFO

Use a maximum of 1 packing plate per hinge.

4.3.2.4 Jigs

Drilling jig



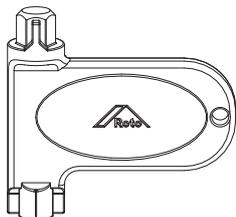
		Nº
Drilling jig	1 Piece(s)	447050 

Telescopic jig

consisting of: 3 drilling jigs, 1 telescopic holder for drilling jigs

			Nº
Telescopic jig	–	1 Set(s)	447052 

4.3.2.5 Adjustment key



		Nº
Gasket compression adjustment key	1 Piece(s)	535285 



4.3.3 Drawings

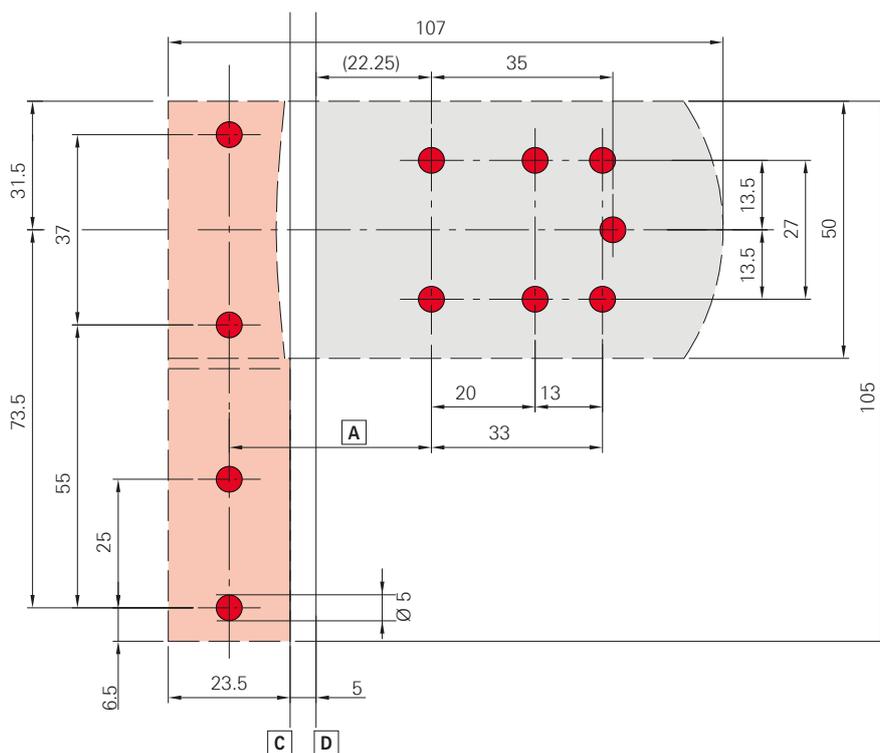
4.3.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).

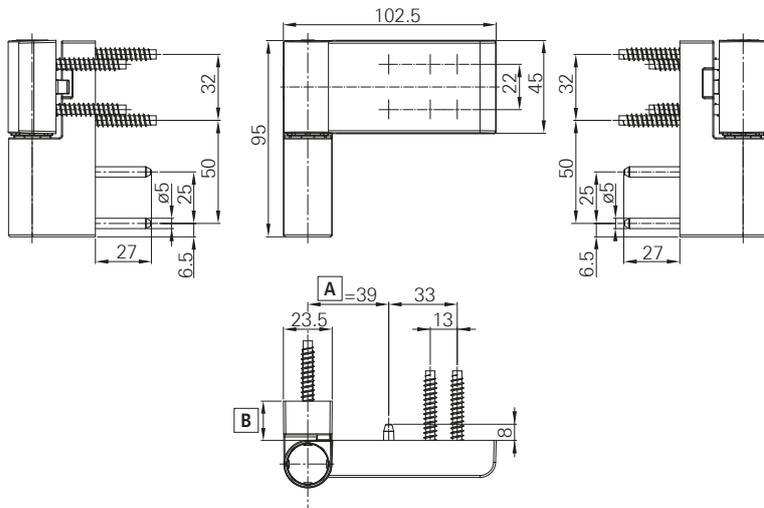


[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body

4.4 150 P



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 150 P two-part screw-on hinge is suitable for timber and PVC entrance doors up to a sash weight of 110 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For timber and PVC entrance doors up to 110 kg
- With proven anti-lifting device to prevent unauthorised unhinging and jemmying
- Overlapping overlap height intervals for greater flexibility
- With additional gasket compression adjustment

Adjustment range

- Laterally adjustable: ± 5 mm
- Height adjustable: $+5 / -1$ mm
- Gasket compression adjustable: ± 1 mm
- Additional gasket compression adjustment of ± 0.75 mm by turning the eccentric frame hinge bush



Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



Security

- With proven anti-lifting device to prevent unauthorised unhinging and jemmying
- Sash hinge cover specially secured to prevent removal



Presetting 39 (screws per hinge: 6x 6.3 x 40)

					N ^o
14 – 17.5	–	R01.1	Natural silver	1 Piece(s)	894437 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	738103 <input checked="" type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	738115 <input checked="" type="checkbox"/>
	RAL 8017	–	Chocolate brown	1 Piece(s)	738113 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	738097 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	799873 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	738083 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	1 Piece(s)	738108 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2006556 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009354 <input type="checkbox"/>
17 – 20.5	–	R01.1	Natural silver	1 Piece(s)	894435 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	738099 <input checked="" type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	738116 <input checked="" type="checkbox"/>
	RAL 8017	–	Chocolate brown	1 Piece(s)	738114 <input checked="" type="checkbox"/>
	RAL 8022	R04.4	Black brown	1 Piece(s)	738123 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	738096 <input checked="" type="checkbox"/>
	–	R05.5	Bronze	1 Piece(s)	771408 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	861941 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	738084 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	1 Piece(s)	738109 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2006557 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009355 <input type="checkbox"/>

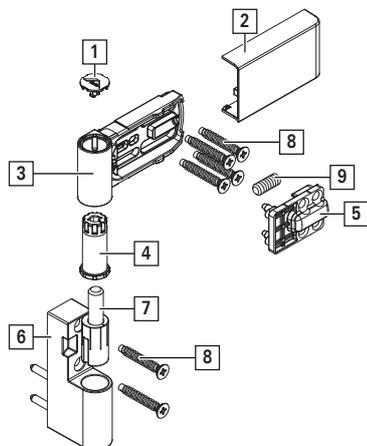
Roto Solid S – Screw-on hinges
150 P

					N ^o
20 – 23.5	–	R01.1	Natural silver	1 Piece(s)	894436 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	738104 <input checked="" type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	738121 <input checked="" type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	738117 <input checked="" type="checkbox"/>
	RAL 8017	–	Chocolate brown	1 Piece(s)	738102 <input checked="" type="checkbox"/>
	RAL 8022	R04.4	Black brown	1 Piece(s)	738118 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	738098 <input checked="" type="checkbox"/>
	–	R05.5	Bronze	1 Piece(s)	771409 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	861942 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	738095 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	1 Piece(s)	738110 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2006558 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009356 <input type="checkbox"/>





4.4.1 Spare parts



- [1] Cover cap
- [2] Sash hinge cover
- [3] Sash hinge
- [4] Sash hinge bush
- [5] Adjusting carriage
- [6] Frame hinge
- [7] Pin module
- [8] Fixing screw
- [9] Threaded pin

[1] Cover cap



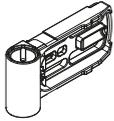
			N ^o
Cover cap	White	1000 Piece(s)	628900 <input type="checkbox"/>
	Black	1000 Piece(s)	633002 <input type="checkbox"/>

[2] Sash hinge cover



					N ^o
Sash hinge cover	RAL 9016	R07.2	Traffic white	50 Piece(s)	738107 <input type="checkbox"/>
	R00.0	R00.0	Uncoated	50 Piece(s)	738112 <input type="checkbox"/>

[3] Sash hinge



					N ^o
Sash hinge	RAL 9016	R07.2	Traffic white	50 Piece(s)	738106
	R00.0	R00.0	Uncoated	50 Piece(s)	738111

[4] Sash hinge bush



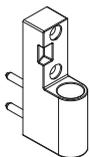
			N ^o
Sash hinge bush	Black	250 Piece(s)	633001
	White	250 Piece(s)	628897

[5] Adjusting carriage



		N ^o
Adjusting carriage	250 Piece(s)	628895

[6] Frame hinge



						N ^o
Frame hinge	14 – 17.5	RAL 9016	R07.2	Traffic white	50 Piece(s)	628880
		R00.0	R00.0	Uncoated	50 Piece(s)	632995
	17 – 20.5	RAL 9016	R07.2	Traffic white	50 Piece(s)	628881
		R00.0	R00.0	Uncoated	50 Piece(s)	632996
	20 – 23.5	RAL 9016	R07.2	Traffic white	50 Piece(s)	628882
		R00.0	R00.0	Uncoated	50 Piece(s)	632997



[7] Pin module



			Nº
Pin module	Black	250 Piece(s)	633000 <input type="checkbox"/>
	White	250 Piece(s)	628896 <input type="checkbox"/>

[8] Fixing screw



			Nº
Fixing screw	6,3x40	48 Piece(s)	450381 <input type="checkbox"/>
		1000 Piece(s)	628901 <input type="checkbox"/>
	6,3x50	48 Piece(s)	450382 <input type="checkbox"/>
		1000 Piece(s)	628902 <input type="checkbox"/>

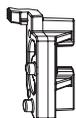
[9] Threaded pin



		Nº
Threaded pin	1000 Piece(s)	628898 <input type="checkbox"/>

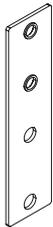
4.4.2 Accessories

4.4.2.1 Slide lock



		Nº
150 P slide lock	1 Piece(s)	741268 <input type="checkbox"/>

4.4.2.2 Packing plates



					Nº
1.5	95	23.5	Black	100 Piece(s)	445214
			White	100 Piece(s)	445213

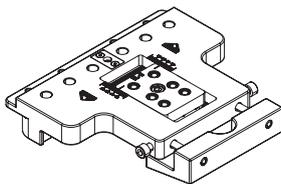


INFO

Use a maximum of 1 packing plate per hinge.

4.4.2.3 Jigs

Drilling jig



		Nº
Drilling jig	1 Piece(s)	628066

Drilling jig conversion kit



		Nº
Drilling jig conversion kit	1 Piece(s)	628878

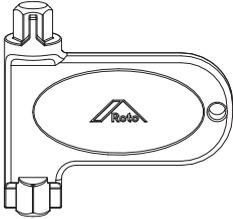


INFO

This can be used to convert a drilling jig for PS 23 / PS 27 to a drilling jig for 150 P.



4.4.2.4 Adjustment key



		Nº
Gasket compression adjustment key	1 Piece(s)	535285



4.4.3 Drawings

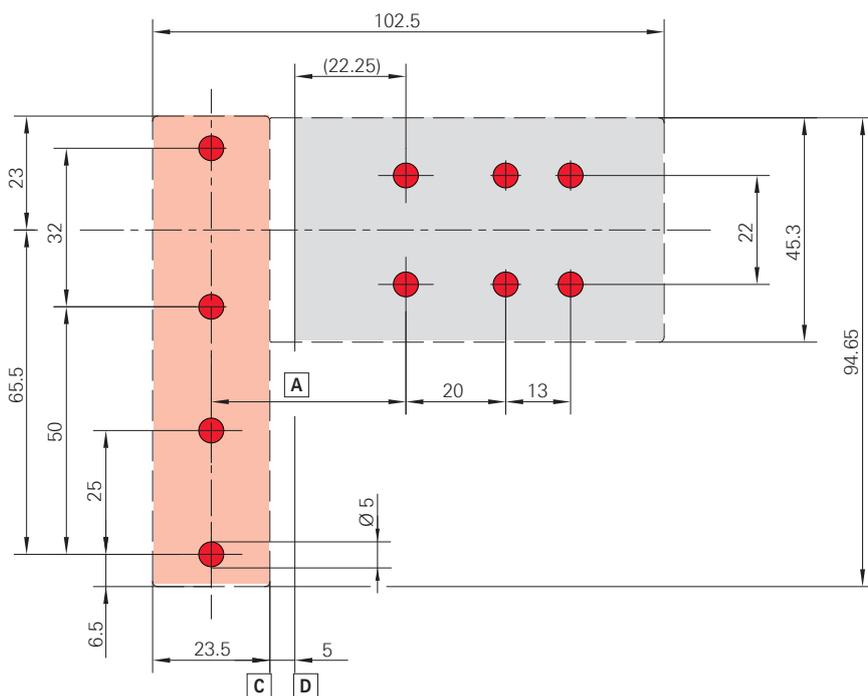
4.4.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



[A] Presetting

[C] Edge of frame hinge body

[D] Edge of leaf profile body



4.5 Profile overview

For 89 NN, 89 NN-SR, 105 NN, 105 NN-SR, 117 NN, 117 H, 118 Z, 118 D



INFO

The profile combinations shown in the overview are a selection of the possible combinations. Other profile combinations are available upon request.

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge
aluplast energeto neo AD	060x05	160x33	32	16.5 – 19	89 NN
	160x01	160x35	37	16.5 – 19	105 NN
	160x02		42	16.5 – 19	117 NN
	160x45				
	160x46				
	060x05	160x33	–	17 – 20.5	105 P
	160x01	160x35			
	160x02				
	160x45				
	160x46				
	160x01	170x39	–	20 – 23.5	105 P
	160x02		34	23 – 25.5	89 NN
			37	23 – 25.5	105 NN
			42	23 – 25.5	117 NN





Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge	
aluplast IDEAL 4000	140x00	140x30	37	19 – 21.5	105 NN	
		140x31	42	18 – 20.5	117 NN	
		140x32				
		140x33				
		140x35				
	140x02	140x31	32	19 – 21.5	89 NN	
		140x32				
		140x30	37	19 – 21.5	105 NN	
		140x32				
		140x35				
	140x03	140x30	32	19 – 21.5	89 NN-SR	
			34	19 – 21.5	89 NN	
		140x33	30.5	17.5 – 20	118 Z	
		140x38			118 D	
		140x33	32	19 – 21.5	105 NN-SR	
		140x28	37	19 – 21.5	105 NN	
		140x30				
		140x31				
		140x32				
		140x33				
		140x35				
		140x38				
		140x07	140x30	42	18 – 20.5	117 NN
				140x31		
				140x32		
	140x33					
	140x35					
	140x08	140x28	37	19 – 21.5	105 NN	
			140x30			
		140x30	37	19 – 21.5	105 NN-SR	
			42	18 – 20.5	117 NN	
		140x31				
		140x32				
		140x33				
	140x35					
	140x10	140x30	29	19 – 21.5	89 NN-SR	
			37	19 – 21.5	105 NN	
		140x33				
140x55	140x35	45	-7.75 – -9.25	117 H		
Deceuninck Eforte AD	LLE 684	HLE 384	30.5	20 – 22.5	118 Z	
		HLE 484			118 D	
		HLE 585	37	21.5 – 24	105 NN	
		HLE 484	32	21.5 – 24	89 NN	
			42	21 – 23.5	117 NN	

Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge	
Deceuninck Elegant MD	5102	5115	32	17.5 – 20	89 NN	
		5116	37	17.5 – 20	105 NN	
		5151				
		5151	30.5	17.5 – 20	118 Z 118 D	
	5103	5151		42	16.5 – 19	117 NN
				30.5	17.5 – 20	118 Z 118 D
				32	17.5 – 20	89 NN
				37	17.5 – 20	105 NN
			42	16.5 – 19	117 NN	
	5136	5116	45	-9.75 – -11.25	117 H	
	Deceuninck Zendow 3000	3000	3048	27	19 – 21.5	89 NN-SR
		3001	3042	32	19 – 21.5	89 NN
3049						
3069						
3048			37	19 – 21.5	105 NN	
3049						
3068 3069						
3008		3048	32	19 – 21.5	105 NN-SR	
3009		3048	27	19 – 21.5	89 NN-SR	
		3052 3048	32	19 – 21.5	105 NN-SR	
3014		3052	32	19 – 21.5	89 NN	
3016		3048	32	19 – 21.5	89 NN	
		3052				
		3048	37	19 – 21.5	105 NN	
3017 3018 3019 – 21.5		3048	37	19 – 21.5	105 NN	
Deceuninck zendow#neo		5001	5511	29	19 – 21.5	89 NN
			5512			
	5513					
	5202		37	19 – 21.5	105 NN-SR	
	5002	5511	29	19 – 21.5	89 NN	
		5512 5513				
	5005	5049	37	19 – 21.5	105 NN-SR	
		5069				
	5009	5512	27	19 – 21.5	89 NN-SR	
		5048				
5512 5048		37	19 – 21.5	105 NN-SR		
GEALAN-LINEAR MD	7001	7082	–	14 – 17.5	105 P	
	7005	7084	32	15.5 – 18	89 NN	
		7088			105 NN	
		7090	42	15.5 – 18	117 NN	





Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge
GEALAN S 8000 IQ AD	5504	8076	32	16.5 – 19	105 NN-SR
		8081	37	15.5 – 18	105 NN
	5507	8081	32	16.5 – 19	89 NN-SR
	8001	8076	32	16.5 – 19	105 NN-SR
		8081	37	15.5 – 18	105 NN
	8003	8094	34	16.5 – 19	89 NN
		8078	37	16.5 – 19	105 NN
		8081 8084			
	8008	8076	32	16.5 – 19	105 NN
		8081	37	15.5 – 18	89 NN
	8011	8076	30.5	15 – 17.5	118 Z 118 D
		8042	32	15.5 – 18	89 NN
		8076			
		8078	34	15.5 – 18	89 NN
		8081			
		8042	37	16.5 – 19	105 NN
	8012	8042	30.5	15 – 17.5	118 Z 118 D
			8076		
				37	16.5 – 19
	8016	8042	45	-6.25 – -7.75	117 H
	8018	8042	42	15.5 – 18	117 NN
			8076		
			8078	45	-6.25 – -7.75
	8021	8042	45	-6.25 – -7.75	117 H
	8023				
	8307				
	8055	8775	30.5	15 – 17.5	118 Z 118 D
	8016 8057 8058 8059	8076	32	16.5 – 19	105 NN
	8017 8018 8019	8042	32	16.5 – 19	105 NN
8018 8043	8042	37	16.5 – 19	105 NN	



Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge		
GEALAN S 9000 MD	6002	6003	29	17.5 – 20	89 NN		
	6016	6025	30.5	17.5 – 20	118 Z 118 D		
			32	17.5 – 20	89 NN		
			42	18 – 20.5	117 NN		
			37	17.5 – 20	105 NN		
	6027	6806	45	-7.75 – -9.25	117 H		
	6802	6025	37	17.5 – 20	105 NN		
			6065	42	18 – 20.5	117 NN	
			6039				
			6065				
	6027	45	-7.75 – -9.25	117 H			
	6804	6067	45	-7.75 – -9.25	117 H		
	6807	6033					
	6809						
	6808					6027	
	6806	6025	37	17.5 – 20	105 NN		
			42	18 – 20.5	117 NN		
	6820	6027	45	-7.75 – -9.25	117 H		
	6842	6806					
	6844					6067	
KBE 76 AD Kömmerling 76 AD Trocal 76 AD	76101	76204	37	17.5 – 20	105 NN-SR		
		76206	37	17.5 – 20	105 NN		
		76207					
		76204					
	76101	76206	30.5	17.5 – 20	118 Z		
	76102	76207			118 D		
	76103	76204	32	17.5 – 20	89 NN		
		76205	37	17.5 – 20	105 NN		
		76206					
		76207					
	76206	42	16.5 – 19	117 NN			
	76207						
76102	76205	37	17.5 – 20	105 NN			
76106	76204	37	17.5 – 20	105 NN			
		42	16.5 – 19	117 NN			
KBE 76 MD Kömmerling 76 MD Trocal 76 MD	76171	76206	37	17.5 – 20	105 NN		
		76272	42	16.5 – 19	105 NN-SR 117 NN		
		76272					
	76172	76272	37	17.5 – 20	105 NN		
KBE 88 MD Kömmerling 88 MD Trocal 88 MD	88172	88274	30.5	20 – 22.5	118 Z		
		88275			118 D		
		88276			32	21.5 – 24	89 NN 105 NN 117 NN
		88277					
		88274					
		88276	37	21.5 – 24			
		88274	42	21 – 23.5			
		88275					
88276							
88277							





Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge		
REHAU S 969 Synego	1537015	1537315	30.5	20 – 22.5	118 Z 118 D		
		1537235 1537315	32	19 – 21.5	89 NN		
		1537235 1537295 1537305 1537315	37 42	19 – 21.5 21 – 23.5	105 NN 117 NN		
		1539005	1537295	37 42	19 – 21.5 19 – 21.5	105 NN 117 NN	
		1539025	1537235 1537295	32	19 – 21.5	89 NN	
			1537235 1537295	37	19 – 21.5	105 NN	
	1537295		42	19 – 21.5	117 NN		
	1539035		1537295	37	19 – 21.5	105 NN	
	1539045	1537305	45	-2.75 – -4.25	117 H		
	REHAU S 980 Synego MD	532305	532165 532175	42	24 – 26.5	117 NN	
	REHAU S 799 Brillant Design	550000	550390 550400 550510	32	19 – 21.5	89 NN	
			550400 550510	32	19 – 21.5	105 NN	
			550160 550170	37	19 – 21.5	105 NN	
			550010	550160 550170	30.5	17.5 – 20	118 Z 118 D
			550420	550160 550170	37 42	19 – 21.5 18 – 20.5	105 NN 117 NN
550570				550160	32	17.5 – 20	105 NN-SR
550680		550510 550160	32 32 37	19 – 21.5 17.5 – 20 19 – 21.5	89 NN 105 NN-SR 105 NN		
		550730	550160	37	19 – 21.5	105 NN	
		550733	550160 550170	37	19 – 21.5	105 NN	
Salamander bluEvolution 73 AD		HP1220	HP1540 HP1550 HP1560 HP1730	37	16.5 – 19	105 NN	
			HP1550 HP1560	42	16.5 – 19	117 NN	
			HO8020	HP8550	37	19 – 21.5	105 NN
			HO8030	HP8540 HP8550 HP8560	30.5	19 – 21.5	118 Z 118 D
				HP8550	37	19 – 21.5	105 NN
		HP8550		42	19 – 21.5	117 NN	

Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge	
Salamander bluEvolution 82 MD	HO9020	HP8540	30.5	19 – 21.5	118 Z	
		HP8550			118 D	
		HP8560				
	HO9030	HP8550	37	19 – 21.5	105 NN	
			30.5	19 – 21.5	118 Z	
			37	19 – 21.5	105 NN	
Salamander bluEvolution 92 MD	170420	171030	30.5	20 – 22.5	118 Z	
					118 D	
		171020	32	21.5 – 24	89 NN	
		171030	37	21.5 – 24	105 NN	
		171040				
		371040				
		171030	42	21 – 23.5	117 NN	
Salamander greenEvolution 76 AD	760003	761008	32	16.5 – 19	89 NN	
			37		105 NN	
			–	17 – 20.5	105 P	
	760011	761008	32	16.5 – 19	89 NN	
			761010	37		105 NN
			761014	42		117 NN
			761015	–	17 – 20.5	105 P
				30.5	17 – 20.5	118 Z
	Salamander greenEvolution 76 MD	760004	761014	32	16.5 – 19	89 NN
				37		105 NN
–				17 – 20.5	105 P	
760012		761008	32	16.5 – 19	89 NN	
			761010	37		105 NN
			761014	42		117 NN
			761015	–	17 – 20.5	105 P
				30.5	17 – 20	118 Z
Schüco Corona CT 70 AD		8558	8577	32	19 – 21.5	105 NN
		8564	8563	30.5	20 – 22.5	118 Z
					118 D	
	8595	8577	29	19 – 21.5	89 NN	
	8596	8509	32	19 – 21.5	89 NN	
		8563				
		8577	37	19 – 21.5	105 NN	
	8583					
		8597	8577	32	19 – 21.5	105 NN
			8577	42	19 – 21.5	117 NN
	8852	8583	32	19 – 21.5	105 NN	
		8577	37	19 – 21.5	105 NN	
Schüco Corona CT 70 MD	9956	9108	30.5	19 – 21.5	118 Z	
					118 D	
	9038	8508	32	19 – 21.5	105 NN-SR	
	9950	9108				





Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge
Schüco LivIng 82 AD	942	9432	30.5	19 – 21.5	118 Z
		9433			118 D
		9452	32	19 – 21.5	89 NN
		9453	42	19 – 21.5	117 NN
		9433	37	19 – 21.5	105 NN
		9452			
	9453				
	9950	9108	28	19 – 21.5	89 NN-SR
9956					
VEKA Softline 70 AD	101.208	103.241	27	19 – 21.5	89 NN
		103.242			
		102.232	37	19 – 21.5	105 NN
		102.233			
	103.241				
	101.209	103.242	37	19 – 21.5	105 NN
	101.214	103.241	27	19 – 21.5	89 NN
		103.242			
		105.232	30.5	19 – 21.5	118 Z
		105.233			
		103.232			
		103.241	37	19 – 21.5	105 NN
		103.242			
		105.232			
		105.233			
		101.219	105.232	37	19 – 21.5
	101.238	105.232	37	19 – 21.5	105 NN-SR
	101.247	103.242	32	19 – 21.5	89 NN-SR
	101.277	103.279	37	19 – 21.5	105 NN
	111.240	105.232	37	19 – 21.5	105 NN-SR
105.233					
VEKA Softline 70 MD	101.277	103.279	37	19 – 21.5	105 NN
VEKA Softline 76 AD	101.354	105.400	37	17 – 20.5	105 NN
VEKA Softline 76 MD	101.351	103.385	30.5	17.5 – 20	118 Z
			37	17 – 20.5	105 NN
			42	18 – 20.5	117 NN
VEKA Softline 82 AD	101.293	103.345	32	19 – 21.5	89 NN
		103.345	30.5	17.5 – 20	118 Z
		103.380			118 D
			32	19 – 21.5	105 NN
	101.294	103.345	32	19 – 21.5	89 NN
		103.345			105 NN
		103.380			
	102.213	105.380	30.5	17.5 – 20	118 Z
					118 D
			32	19 – 21.5	105 NN

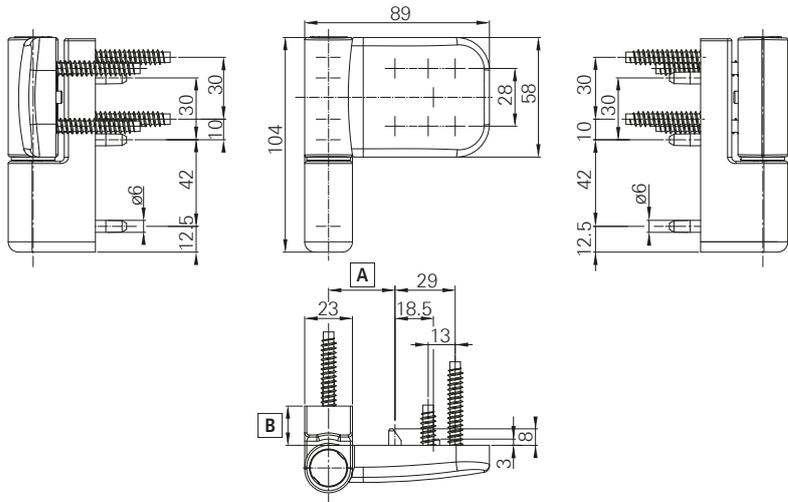
Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Presetting	Overlap area	Door hinge
VEKA Softline 82 MD	101.290	103.345	30.5	17.5 – 20	118 Z
	101.291				118 D
	102.310		32	19 – 21.5	89 NN
	102.311				
	101.290	103.345	32	19 – 21.5	105 NN
	102.310				
	102.311				
	101.291	103.345	37	19 – 21.5	105 NN
	105.380				
	103.345		42	18 – 20.5	117 NN
VEKA Softline 82 NL AD	101.333	103.346	45	-6.25 – -7.75	117 H
	102.336				
	101.333	105.381	47	-6.25 – -7.75	117 H





4.6 89 NN



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 89 NN two-part screw-on hinge is suitable for timber and PVC entrance doors up to a sash weight of 80 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For timber and PVC entrance doors up to 80 kg
- Optimal load transfer on the leaf via triangle of forces
- With additional gasket compression adjustment
- Additional version available for profiles with narrow visible widths / renovation profiles

Adjustment range

- Laterally adjustable: +10 / -5 mm
- Height adjustable: +5 mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.5 mm by turning the eccentric frame hinge bush

Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



Security

- Sash hinge bush specially secured in the sash hinge to prevent removal

Presetting 32 (screws per hinge: 2x 7.3 x 30 and 4x 7.3 x 50)

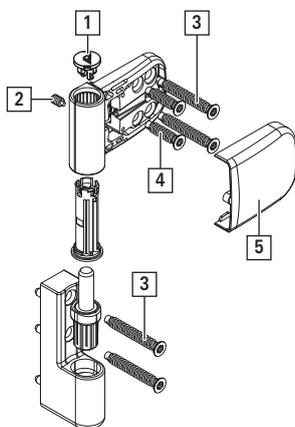
					Nº
14 – 16.5	RAL 8077	–	Dark brown	1 Piece(s)	544684 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	551171 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622490 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009357 <input type="checkbox"/>
15.5 – 18	RAL 8077	–	Dark brown	1 Piece(s)	547614 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	547612 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	547615 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622491 <input type="checkbox"/>
–	–	Stainless steel appearance	1 Piece(s)	2009358 <input type="checkbox"/>	
16.5 – 19	RAL 1036	–	Pearl gold	1 Piece(s)	545407 <input checked="" type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	890941 <input type="checkbox"/>
	RAL 8017	–	Chocolate brown	1 Piece(s)	890874 <input type="checkbox"/>
	RAL 8022	R04.4	Black brown	1 Piece(s)	890940 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	544612 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	24 Piece(s)	544711 <input type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	545988 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544611 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	544710 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622493 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009359 <input type="checkbox"/>
17.5 – 20	RAL 8077	–	Dark brown	1 Piece(s)	546367 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546366 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622494 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009360 <input type="checkbox"/>



					N ^o
19 – 21.5	–	R01.1	Natural silver	1 Piece(s)	895091 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	545010 <input checked="" type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	546034 <input checked="" type="checkbox"/>
	RAL 8019	R04.1	Grey brown	1 Piece(s)	545189 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	544686 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	24 Piece(s)	546028 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	545630 <input checked="" type="checkbox"/>
	RAL 9007	–	Grey aluminium	1 Piece(s)	545771 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544685 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	546026 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622495 <input type="checkbox"/>
	SF	SF	Special colour	24 Piece(s)	638691 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009361 <input type="checkbox"/>
21.5 – 24	RAL 8077	–	Dark brown	1 Piece(s)	544675 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	546928 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544674 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622496 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009362 <input type="checkbox"/>
23 – 25.5	RAL 8077	–	Dark brown	1 Piece(s)	545132 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546930 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622497 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009363 <input type="checkbox"/>



4.6.1 Spare parts



- [1] Cover cap
- [2] Sash hinge cover fixing
- [3] Fixing screw, long
- [4] Fixing screw, short

[5] Sash hinge cover

[1] Cover cap



			Nº
Cover cap	Black	24 Piece(s)	736467 <input type="checkbox"/>
	White	24 Piece(s)	764520 <input type="checkbox"/>

[2] Sash hinge cover fixing



			Nº
Sash hinge cover fixing	M6x10	100 Piece(s)	823911 <input type="checkbox"/>

[3] Fixing screw, long



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912 <input type="checkbox"/>

[4] Fixing screw, short



				Nº
Fixing screw	T30 hexalobular socket	7,3x30	48 Piece(s)	825063 <input type="checkbox"/>

[5] Sash hinge cover

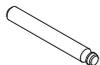


					Nº
Sash hinge cover	RAL 8077	–	Dark brown	1 Piece(s)	764515 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	764518 <input type="checkbox"/>



4.6.2 Accessories

4.6.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049

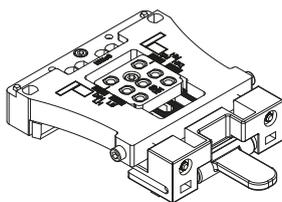
4.6.2.2 Packing plates



					Nº
1.5	103.5	23	White	24 Piece(s)	546044
			Black	24 Piece(s)	546045

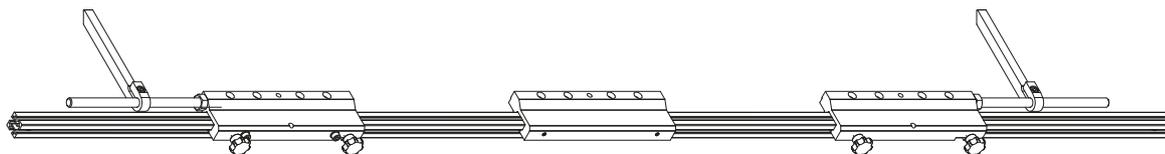
4.6.2.3 Jigs

Drilling jig



			Nº
Drilling jig	32 mm	1 Piece(s)	544283

Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408

4.6.3 Drawings

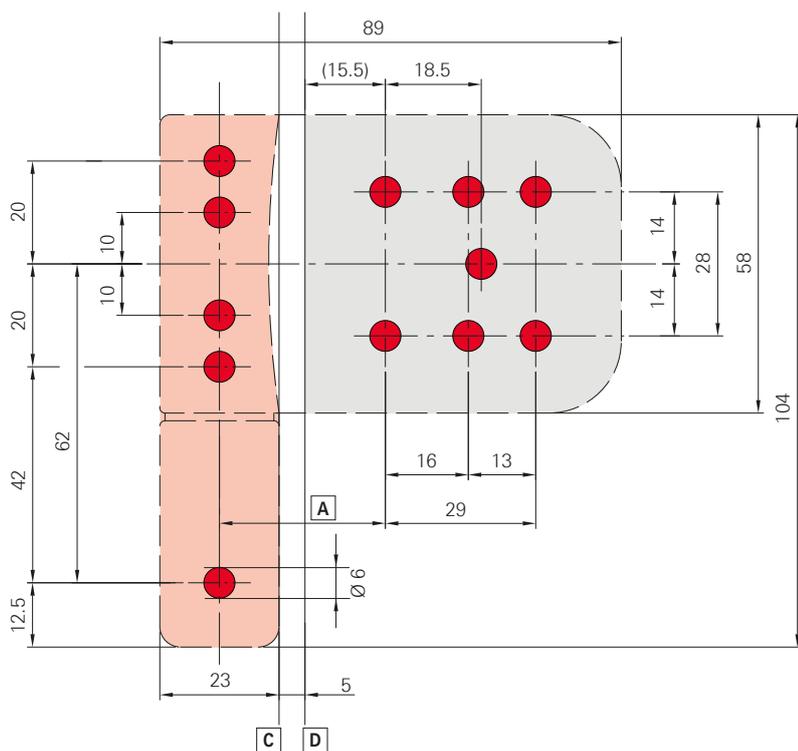
4.6.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



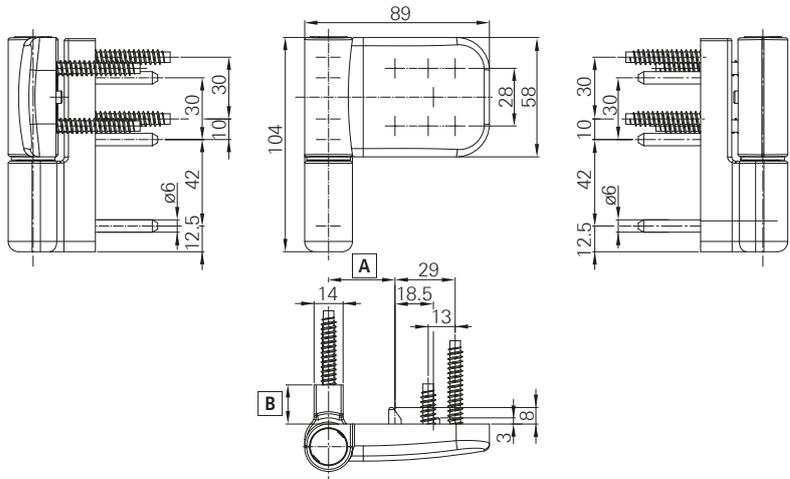
[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body



4.7 89 NN-SR



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 89 NN-SR two-part screw-on hinge is suitable for timber and PVC entrance doors up to a sash weight of 80 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For timber and PVC entrance doors up to 80 kg
- Optimal load transfer on the leaf via triangle of forces
- With additional gasket compression adjustment
- Especially suited to profiles with narrow visible widths / renovation profiles

Adjustment range

- Laterally adjustable: +10 / -5 mm
- Height adjustable: +5 mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.5 mm by turning the eccentric frame hinge bush

Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



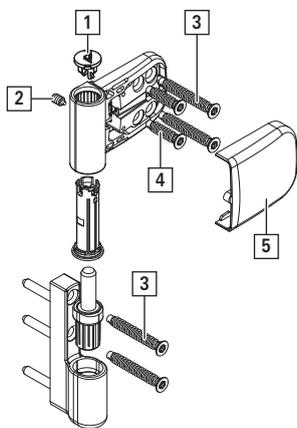
Security

- Sash hinge bush specially secured in the sash hinge to prevent removal

Presetting 32 (screws per hinge: 2x 7.3 x 30 and 4x 7.3 x 50)

					N ^o
14 – 16.5	RAL 9016	R07.2	Traffic white	1 Piece(s)	546310 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622487 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009364 <input type="checkbox"/>
15.5 – 18	RAL 9016	R07.2	Traffic white	24 Piece(s)	547684 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	631018 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009365 <input type="checkbox"/>
16.5 – 19	RAL 8003	–	Clay brown	1 Piece(s)	546500 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	546999 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	547001 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622488 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009366 <input type="checkbox"/>
17.5 – 20	RAL 9016	R07.2	Traffic white	1 Piece(s)	570568 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	631019 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009367 <input type="checkbox"/>
19 – 21.5	–	R01.1	Natural silver	1 Piece(s)	894439 <input type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	622669 <input checked="" type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	546699 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	546975 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546415 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622489 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009368 <input type="checkbox"/>

4.7.1 Spare parts



- [1] Cover cap
- [2] Sash hinge cover fixing
- [3] Fixing screw, long
- [4] Fixing screw, short



[5] Sash hinge cover

[1] Cover cap



			Nº
Cover cap	Black	24 Piece(s)	736467 <input type="checkbox"/>
	White	24 Piece(s)	764520 <input type="checkbox"/>

[2] Sash hinge cover fixing



			Nº
Sash hinge cover fixing	M6x10	100 Piece(s)	823911 <input type="checkbox"/>

[3] Fixing screw, long



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912 <input type="checkbox"/>

[4] Fixing screw, short



				Nº
Fixing screw	T30 hexalobular socket	7,3x30	48 Piece(s)	825063 <input type="checkbox"/>

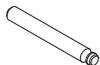
[5] Sash hinge cover



					Nº
Sash hinge cover	RAL 8077	–	Dark brown	1 Piece(s)	764515 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	764518 <input type="checkbox"/>

4.7.2 Accessories

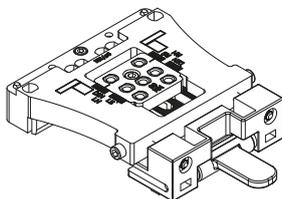
4.7.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 

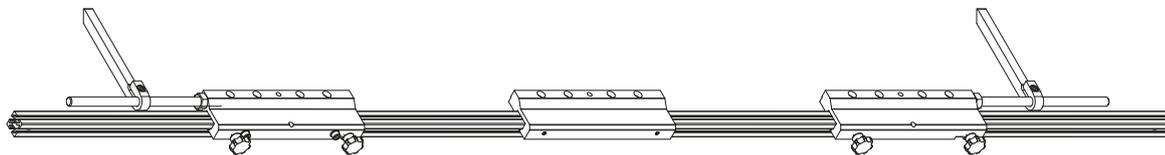
4.7.2.2 Jigs

Drilling jig



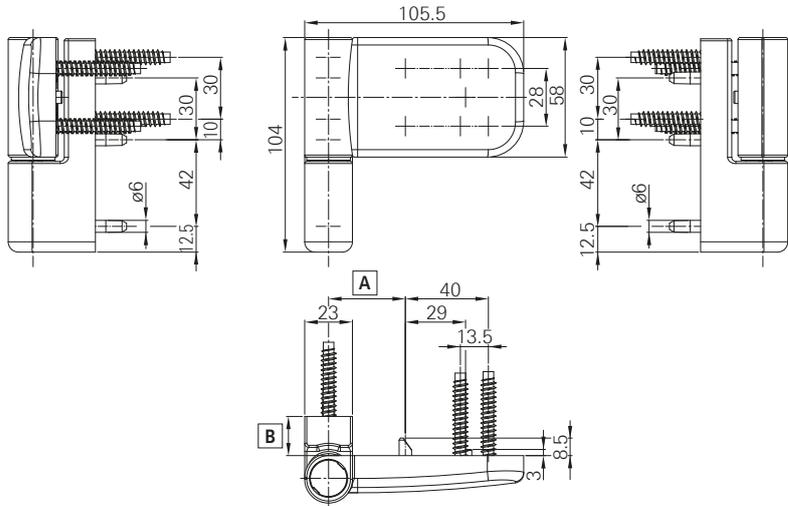
			Nº
Drilling jig	32	1 Piece(s)	547532 

Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 

4.8 105 NN



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 105 NN two-part screw-on hinge is suitable for timber and PVC entrance doors up to a sash weight of 120 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For timber and PVC entrance doors up to 120 kg
- Optimal load transfer on the leaf via triangle of forces
- With additional gasket compression adjustment
- Additional version available for profiles with narrow visible widths / renovation profiles

Adjustment range

- Laterally adjustable: +10 / -5 mm
- Height adjustable: +5 mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.75 mm by turning the eccentric frame hinge bush



Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



Security

- SKG**-compatible with retrofit set
- Sash hinge bush specially secured in the sash hinge to prevent removal



Presetting 32 (screws per hinge: 6x 7.3 x 50)

					N ^o
16.5 – 19	RAL 8077	–	Dark brown	1 Piece(s)	543739 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	543684 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	542591 <input checked="" type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009341 <input type="checkbox"/>
19 – 21.5	RAL 8077	–	Dark brown	1 Piece(s)	543746 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	24 Piece(s)	547728 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	543685 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	24 Piece(s)	547730 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	543701 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	543804 <input checked="" type="checkbox"/>
–	–	Stainless steel appearance	1 Piece(s)	2009345 <input type="checkbox"/>	

Presetting 37 (screws per hinge: 6x 7.3 x 50)

					N ^o
14 – 16.5	RAL 8077	–	Dark brown	1 Piece(s)	543991 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	546919 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	551129 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622456 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009339 <input type="checkbox"/>
15.5 – 18	RAL 8077	–	Dark brown	1 Piece(s)	547598 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	547596 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622457 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009340 <input type="checkbox"/>

					N ^o	
16.5 – 19	–	R01.1	Natural silver	1 Piece(s)	894430 <input type="checkbox"/>	
	–	R05.5	Bronze	1 Piece(s)	771394 <input checked="" type="checkbox"/>	
	RAL 1036	–	Pearl gold	1 Piece(s)	545234 <input checked="" type="checkbox"/>	
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	782217 <input checked="" type="checkbox"/>	
	RAL 7016M	R02.2M	Anthracite grey, matt	1 Piece(s)	551226 <input type="checkbox"/>	
	RAL 7021	R02.3	Black grey	24 Piece(s)	544330 <input checked="" type="checkbox"/>	
	RAL 8003	–	Clay brown	1 Piece(s)	544206 <input checked="" type="checkbox"/>	
	RAL 8077	–	Dark brown	1 Piece(s)	543601 <input checked="" type="checkbox"/>	
	RAL 8077	–	Dark brown	24 Piece(s)	543709 <input checked="" type="checkbox"/>	
	RAL 9001	R07.3	Cream	1 Piece(s)	551169 <input checked="" type="checkbox"/>	
	RAL 9001	R07.3	Cream	24 Piece(s)	544791 <input type="checkbox"/>	
	RAL 9005	R06.2	Jet black	1 Piece(s)	544240 <input checked="" type="checkbox"/>	
	RAL 9006	–	White aluminium	1 Piece(s)	543814 <input checked="" type="checkbox"/>	
	RAL 9007	–	Grey aluminium	1 Piece(s)	639812 <input checked="" type="checkbox"/>	
	RAL 9016	R07.2	Traffic white	1 Piece(s)	551120 <input checked="" type="checkbox"/>	
	RAL 9016	R07.2	Traffic white	24 Piece(s)	543656 <input checked="" type="checkbox"/>	
	SF	SF	Special colour	1 Piece(s)	622458 <input type="checkbox"/>	
	–	–	Stainless steel appearance	1 Piece(s)	2009342 <input type="checkbox"/>	
	17.5 – 20	RAL 8077	–	Dark brown	1 Piece(s)	551241 <input checked="" type="checkbox"/>
		RAL 8077	–	Dark brown	24 Piece(s)	551209 <input checked="" type="checkbox"/>
RAL 9006		–	White aluminium	1 Piece(s)	546960 <input checked="" type="checkbox"/>	
RAL 9016		R07.2	Traffic white	1 Piece(s)	546365 <input checked="" type="checkbox"/>	
RAL 9016		R07.2	Traffic white	24 Piece(s)	545995 <input checked="" type="checkbox"/>	
SF		SF	Special colour	1 Piece(s)	622459 <input type="checkbox"/>	
–		–	Stainless steel appearance	1 Piece(s)	2009344 <input type="checkbox"/>	
19 – 21.5	–	R01.1	Natural silver	1 Piece(s)	894431 <input type="checkbox"/>	
	–	R01.1	Natural silver	24 Piece(s)	2000326 <input type="checkbox"/>	
	RAL 1036	–	Pearl gold	1 Piece(s)	545008 <input checked="" type="checkbox"/>	
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	546397 <input checked="" type="checkbox"/>	
	RAL 8003	–	Clay brown	1 Piece(s)	547756 <input checked="" type="checkbox"/>	
	RAL 8003	–	Clay brown	24 Piece(s)	545477 <input type="checkbox"/>	
	RAL 8019	R04.1	Grey brown	24 Piece(s)	545472 <input checked="" type="checkbox"/>	
	–	R05.5	Bronze	1 Piece(s)	771405 <input checked="" type="checkbox"/>	
	RAL 8077	–	Dark brown	1 Piece(s)	543789 <input checked="" type="checkbox"/>	
	RAL 8077	–	Dark brown	24 Piece(s)	543755 <input checked="" type="checkbox"/>	
	RAL 9001	R07.3	Cream	1 Piece(s)	545555 <input checked="" type="checkbox"/>	
	RAL 9001	R07.3	Cream	24 Piece(s)	545847 <input checked="" type="checkbox"/>	
	RAL 9005	R06.2	Jet black	1 Piece(s)	893490 <input type="checkbox"/>	
	RAL 9006	–	White aluminium	1 Piece(s)	543852 <input checked="" type="checkbox"/>	
	RAL 9007	–	Grey aluminium	1 Piece(s)	545765 <input checked="" type="checkbox"/>	
	RAL 9016	R07.2	Traffic white	1 Piece(s)	543788 <input checked="" type="checkbox"/>	
	RAL 9016	R07.2	Traffic white	24 Piece(s)	543786 <input checked="" type="checkbox"/>	
	SF	SF	Special colour	1 Piece(s)	622460 <input type="checkbox"/>	
	–	–	Stainless steel appearance	1 Piece(s)	2009346 <input type="checkbox"/>	
	–	–	Stainless steel appearance	24 Piece(s)	2009347 <input type="checkbox"/>	



					N ^o
21.5 – 24	SF	SF	Special colour	1 Piece(s)	622461 <input type="checkbox"/>
	–	R05.5	Bronze	1 Piece(s)	771406 <input checked="" type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	546483 <input checked="" type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	893491 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	544546 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	24 Piece(s)	544547 <input type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	894793 <input type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	546921 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	544548 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544545 <input checked="" type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009348 <input type="checkbox"/>
23 – 25.5	–	R01.1	Natural silver	1 Piece(s)	894432 <input type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	861441 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	545161 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	899185 <input type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	545164 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	545160 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	545166 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622462 <input type="checkbox"/>
–	–	Stainless steel appearance	1 Piece(s)	2009349 <input type="checkbox"/>	



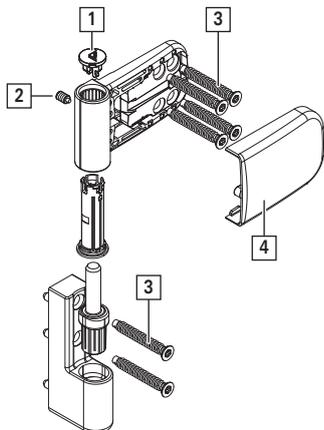
SKG retrofit set**



SKG** retrofit set consisting of: 1 black cover cap, 1 white cover cap, 1 hardened axis module, 2 locking pins, 1 installation instructions

		N ^o
SKG** retrofit set 105 NN	1 Piece(s)	862478 <input type="checkbox"/>

4.8.1 Spare parts



- [1] Cover cap
- [2] Sash hinge cover fixing
- [3] Fixing screw
- [4] Sash hinge cover

[1] Cover cap



			Nº
Cover cap	Black	24 Piece(s)	736467 
	White	24 Piece(s)	764520 

[2] Sash hinge cover fixing



			Nº
Sash hinge cover fixing	M6x10	100 Piece(s)	823911 

[3] Fixing screw



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912 



[4] Sash hinge cover

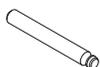


					Nº
Sash hinge cover	RAL 8077	–	Dark brown	1 Piece(s)	764515 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	764518 <input type="checkbox"/>



4.8.2 Accessories

4.8.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 <input checked="" type="checkbox"/>

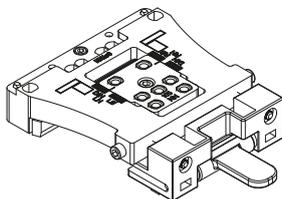
4.8.2.2 Packing plates



					Nº
1.5	103.5	23	White	24 Piece(s)	546044 <input checked="" type="checkbox"/>
			Black	24 Piece(s)	546045 <input checked="" type="checkbox"/>

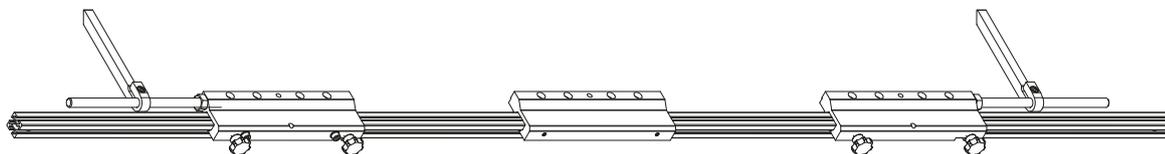
4.8.2.3 Jigs

Drilling jig



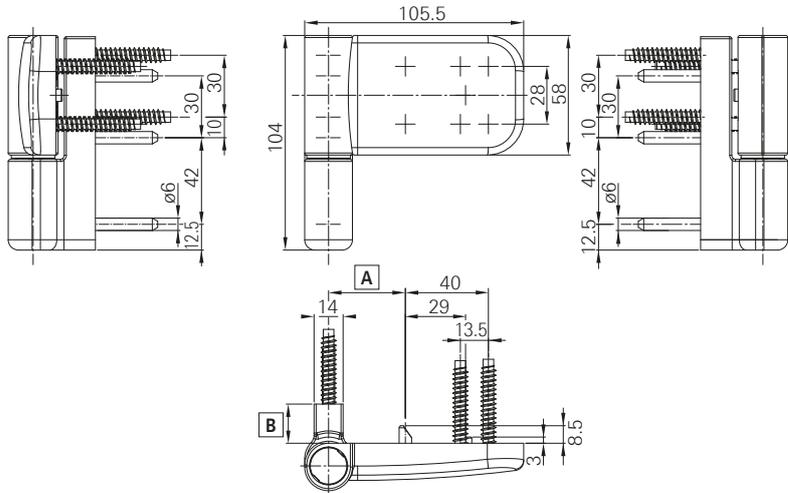
			Nº
Drilling jig	32	1 Piece(s)	541189 
	37	1 Piece(s)	544518 

Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 

4.9 105 NN-SR



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 105 NN-SR two-part screw-on hinge is suitable for timber and PVC entrance doors up to a sash weight of 120 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For timber and PVC entrance doors up to 120 kg
- Optimal load transfer on the leaf via triangle of forces
- With additional gasket compression adjustment
- Especially suited to profiles with narrow visible widths / renovation profiles

Adjustment range

- Laterally adjustable: +10 / -5 mm
- Height adjustable: +5 mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.75 mm by turning the eccentric frame hinge bush



Product characteristics



Design

- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing
- With additional gasket compression adjustment



Security

- Sash hinge bush specially secured in the sash hinge to prevent removal



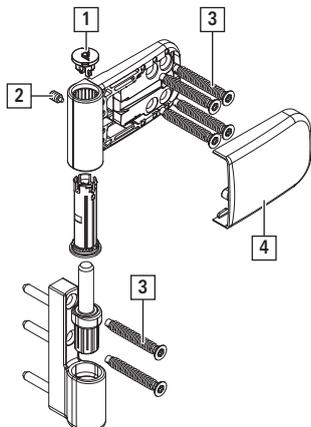
Presetting 32 (screws per hinge: 6x 7.3 x 50)

					N ^o
17.5 – 20	RAL 8019	R04.1	Grey brown	24 Piece(s)	729191 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	549647 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	24 Piece(s)	729190 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	637183 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009351 <input type="checkbox"/>

Presetting 37 (screws per hinge: 6x 7.3 x 50)

					N ^o
14 – 16.5	RAL 9016	R07.2	Traffic white	1 Piece(s)	547058 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622463 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009350 <input type="checkbox"/>
15.5 – 18	SF	SF	Special colour	1 Piece(s)	631031 <input type="checkbox"/>
16.5 – 19	–	R01.1	Natural silver	1 Piece(s)	894440 <input type="checkbox"/>
	RAL 1036	–	Pearl gold	1 Piece(s)	840194 <input type="checkbox"/>
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	2005916 <input type="checkbox"/>
	RAL 8003	–	Clay brown	1 Piece(s)	810461 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	546424 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	1 Piece(s)	2005917 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546311 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	1 Piece(s)	2005915 <input type="checkbox"/>
17.5 – 20	SF	SF	Special colour	1 Piece(s)	622464 <input type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	631032 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009352 <input type="checkbox"/>
19 – 21.5	–	R01.1	Natural silver	1 Piece(s)	894438 <input type="checkbox"/>
	RAL 8077	–	Dark brown	1 Piece(s)	546538 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	1 Piece(s)	549191 <input checked="" type="checkbox"/>
	RAL 9006	–	White aluminium	1 Piece(s)	546974 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546402 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	622486 <input type="checkbox"/>
	–	–	Stainless steel appearance	1 Piece(s)	2009353 <input type="checkbox"/>

4.9.1 Spare parts



- [1] Cover cap
- [2] Sash hinge cover fixing
- [3] Fixing screw
- [4] Sash hinge cover

[1] Cover cap



			Nº
Cover cap	Black	24 Piece(s)	736467
	White	24 Piece(s)	764520

[2] Sash hinge cover fixing



			Nº
Sash hinge cover fixing	M6x10	100 Piece(s)	823911

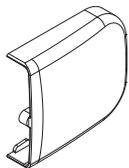
[3] Fixing screw



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912



[4] Sash hinge cover

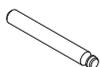


					Nº
Sash hinge cover	RAL 8077	–	Dark brown	1 Piece(s)	764515 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	1 Piece(s)	764518 <input type="checkbox"/>



4.9.2 Accessories

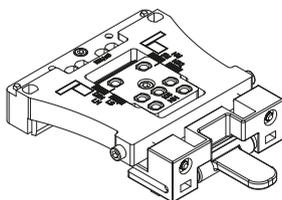
4.9.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 <input type="checkbox"/>

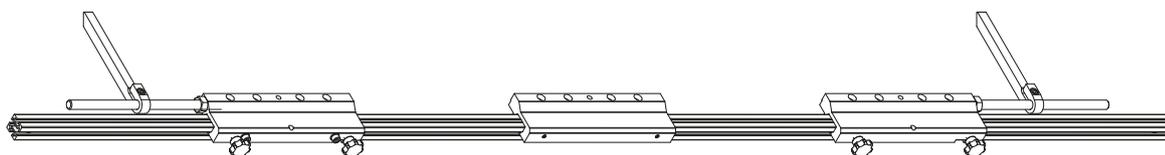
4.9.2.2 Jigs

Drilling jig



			Nº
Drilling jig	37	1 Piece(s)	547530 <input type="checkbox"/>

Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 <input type="checkbox"/>

4.9.3 Drawings

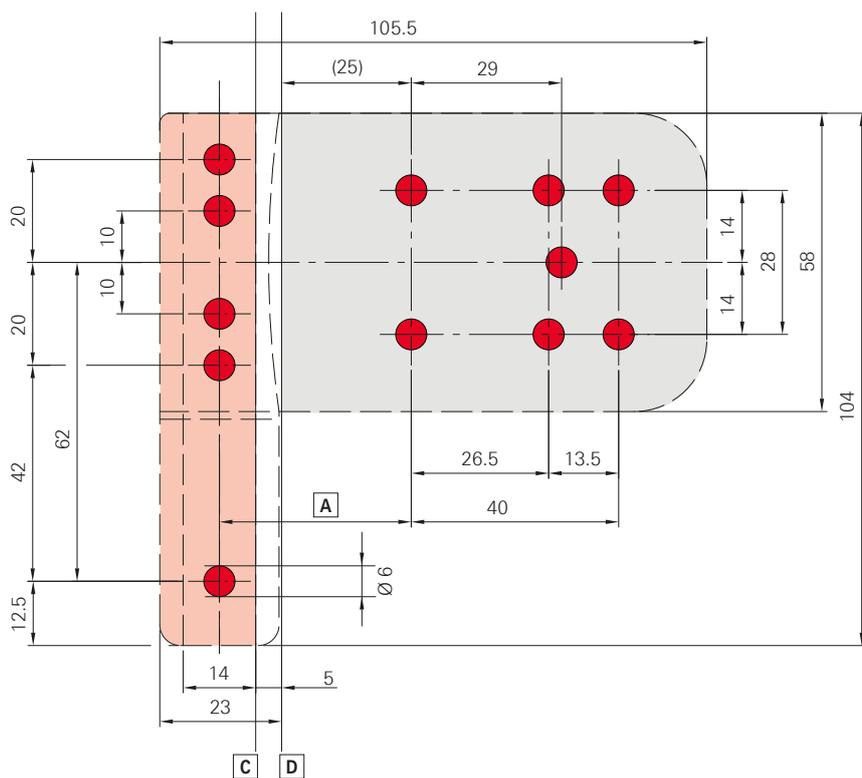
4.9.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



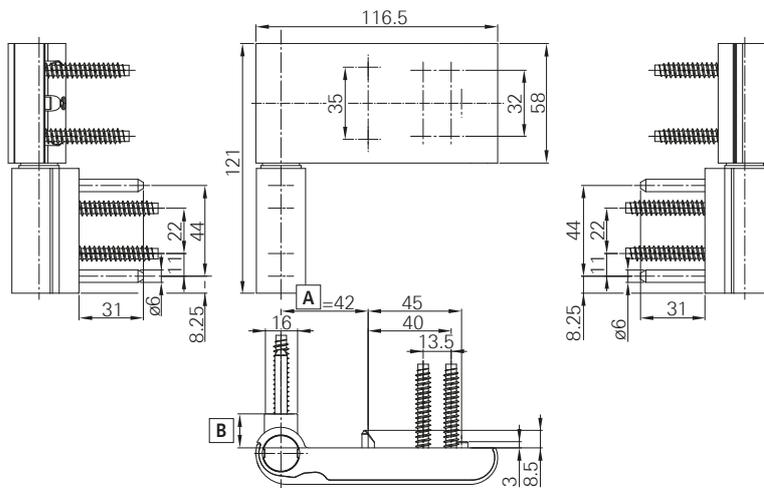
[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body



4.10 117 NN



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 117 NN two-part screw-on hinge is suitable for heavy timber and PVC entrance doors up to a sash weight of 160 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated and anodised surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.

Advantages at a glance

- For timber and PVC entrance doors up to 160 kg
- Overlapping overlap height intervals for greater flexibility
- Optimal load transfer on the leaf via triangle of forces
- With integrated adjusting scale

Adjustment range

- Laterally adjustable: ± 5 mm
- Height adjustable: $+4 / -1$ mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.75 mm by turning the eccentric sash hinge bush



Product characteristics



Design

- Hinge casing made from extruded aluminium
- Wide selection of colours
- Powder-coated or anodised surface



Comfort

- Maintenance-free thanks to high-quality self-lubricating PVC bush
- Axis pin can be removed in an upward direction for fast and simple installation and removal of the door
- Sash hinge cover is clipped on for a secure hold



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- Adjustment when fully assembled without undoing the fixing
- Without lateral offset of hinge bodies
- With additional gasket compression adjustment



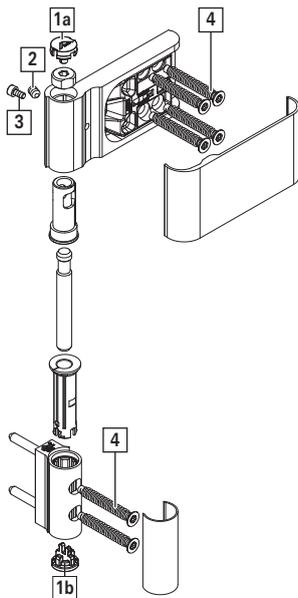
Security

- SKG** certified
- Sash hinge cover specially secured to prevent removal

Presetting 42 (screws per hinge: 6x 7.3 x 50)

						Nº
16.5 – 19	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	632532 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	632529 <input type="checkbox"/>
19 – 21.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	729807 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	640149 <input type="checkbox"/>
21 – 23.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	729809 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	729808 <input type="checkbox"/>

4.10.1 Spare parts



- [1] Cover cap
- [2] Axis pin fixing
- [3] Sash hinge cover fixing



[4] Fixing screw

[1] Cover cap

[1a] Top cover cap



			Nº
Cover cap	Black	24 Piece(s)	736468

[1b] Bottom cover cap



			Nº
Cover cap	Black	24 Piece(s)	736467

[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

[3] Sash hinge cover fixing



			Nº
Sash hinge cover fixing		1 Piece(s)	825055

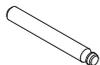
[4] Fixing screw



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912

4.10.2 Accessories

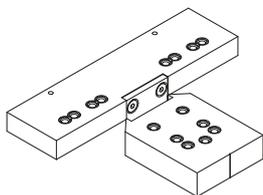
4.10.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 

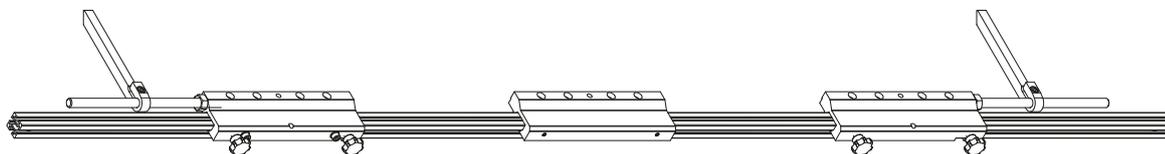
4.10.2.2 Jigs

Drilling jig



		Nº
Drilling jig	1 Piece(s)	639924 

Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 



4.10.3 Drawings

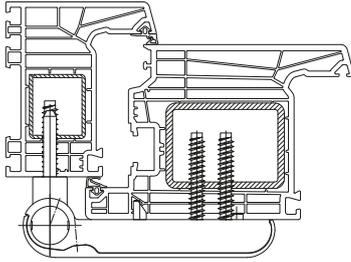
4.10.3.1 Installation drawings



INFO

Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.



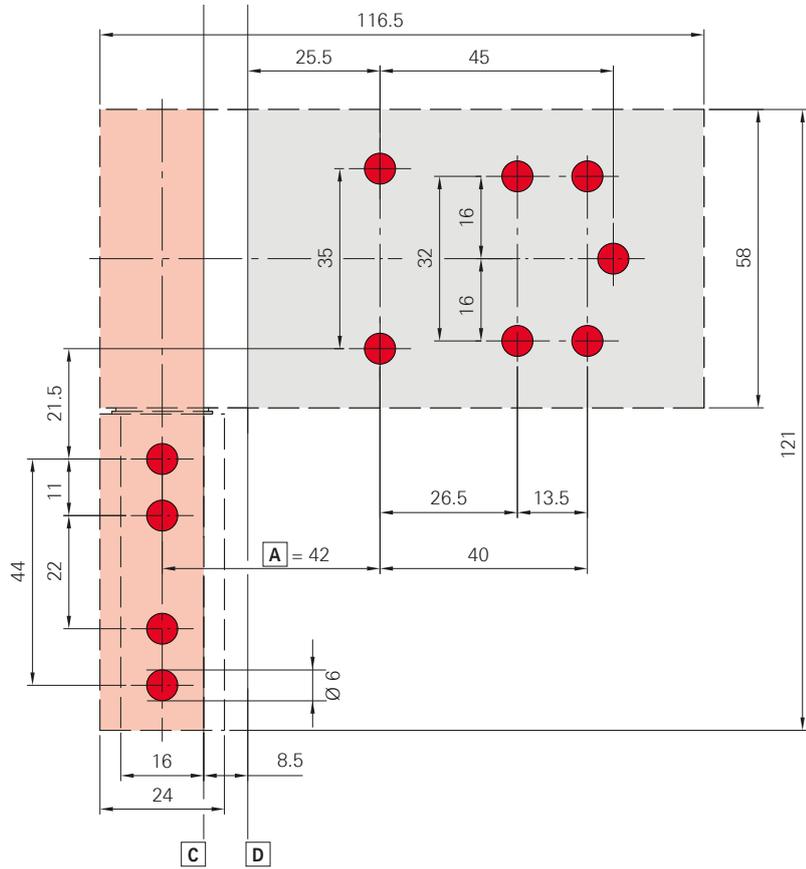
4.10.3.2 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



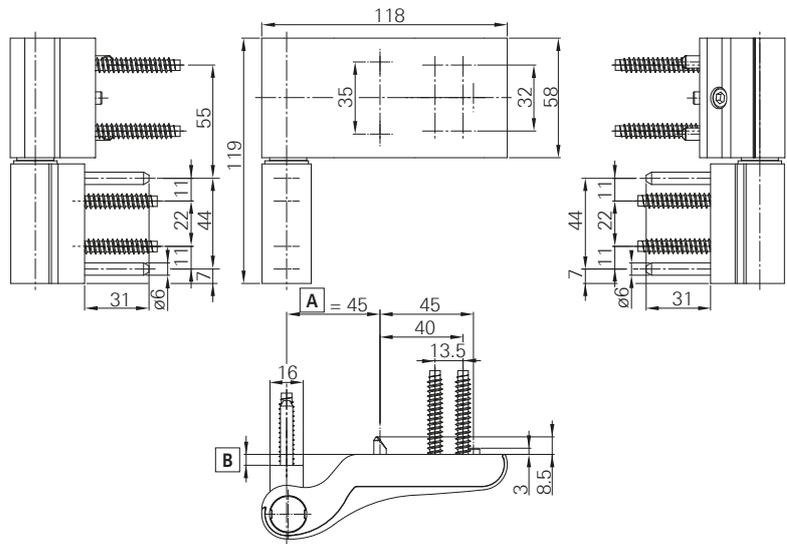
[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body



4.11 117 H



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 117 H two-part screw-on hinge is ideal for heavy PVC entrance doors up to a sash weight of 160 kg and is specially designed for use in block profiles with negative overlap.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated and anodised surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For PVC outward opening entrance doors up to 160 kg
- Specially for block profiles with negative overlap
- Optimal load transfer on the leaf via triangle of forces
- With integrated adjusting scale

Adjustment range

- Laterally adjustable: ± 5 mm
- Height adjustable: $+4 / -1$ mm
- Gasket compression adjustable: ± 0.75 mm

Product characteristics



Design

- Hinge casing made from extruded aluminium
- Wide selection of colours
- Powder-coated or anodised surface



Comfort

- Maintenance-free thanks to high-quality self-lubricating PVC bush
- Axis pin can be removed in an upward direction for fast and simple installation and removal of the door
- Sash hinge cover is clipped on for a secure hold



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- Adjustment when fully assembled without undoing the fixing
- Without lateral offset of hinge bodies



Security

- SKG**-certified
- Sash hinge cover specially secured to prevent removal

Presetting 45 (screws per hinge: 6x 7.3 x 50)

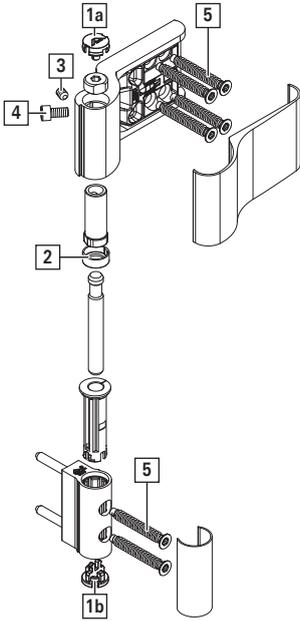
						Nº
-4.5 – -6	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	616484 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	604642 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	616482 <input checked="" type="checkbox"/>
-6.25 – -7.75	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	619757 <input checked="" type="checkbox"/>
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	619756 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	619755 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	619704 <input checked="" type="checkbox"/>
	SF	SF	Special colour	–	1 Piece(s)	2003326 <input type="checkbox"/>
-7.75 – -9.25	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	619703 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	619701 <input checked="" type="checkbox"/>
	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	619700 <input checked="" type="checkbox"/>
-9.75 – -11.25	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	899407 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	899389 <input type="checkbox"/>
	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	899405 <input type="checkbox"/>
	SF	SF	Special colour	–	1 Piece(s)	899408 <input type="checkbox"/>

Presetting 45 (screws per hinge: 2x 7.5 x 72 and 4x 7.3 x 50)

						Nº
-2.75 – -4.25	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	828434 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	828440 <input type="checkbox"/>
	SF	SF	Special colour	–	1 Piece(s)	862511 <input type="checkbox"/>
	–	R01.1	Natural silver	anod.	1 Piece(s)	828441 <input type="checkbox"/>



4.11.1 Spare parts



- [1] Cover cap
- [2] Gap cover
- [3] Axis pin fixing
- [4] Sash hinge cover fixing
- [5] Fixing screw

[1] Cover cap

[1a] Top cover cap



			Nº
Cover cap	Black	24 Piece(s)	736468

[1b] Bottom cover cap



			Nº
Cover cap	Black	24 Piece(s)	736467

[2] Gap cover



			Nº
Gap cover	Black	10 Piece(s)	809568

[3] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

[4] Sash hinge cover fixing



		Nº
Sash hinge cover fixing	1 Piece(s)	825055

[5] Fixing screw



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912

4.11.2 Accessories

4.11.2.1 Locking pin

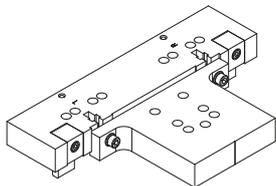


			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049



4.11.2.2 Jigs

Drilling jig

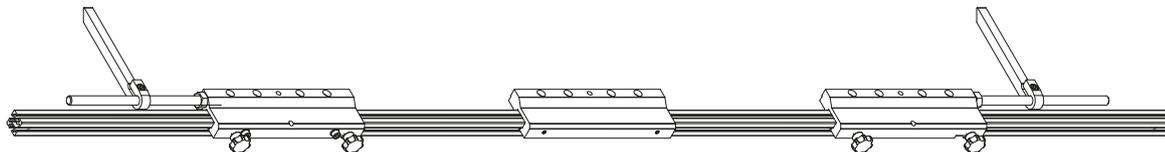


INFO

Order drilling jigs depending on the profile used (available upon request).



Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 

4.11.3 Drawings

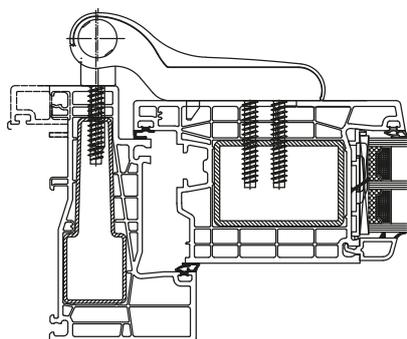
4.11.3.1 Installation drawings



INFO

Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.



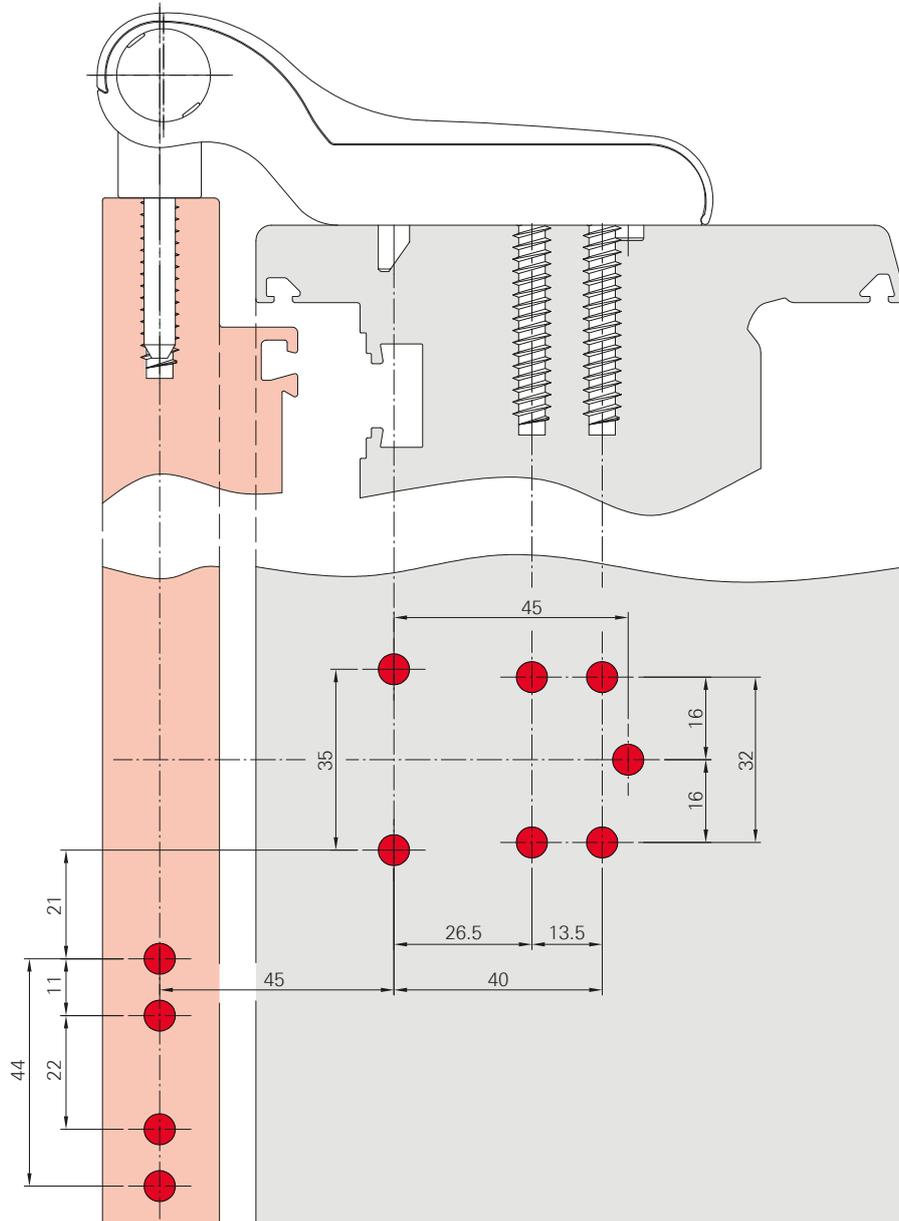
4.11.3.2 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



Product characteristics



Design

- Wide selection of colours
- Powder-coated or anodised surface



Comfort

- Maintenance-free thanks to high-quality self-lubricating PVC bush
- Axis pin can be installed and removed in an upward and downward direction, making it ideal when space for installation and removal is limited between leaf and lintel



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- Adjustment when fully assembled without undoing the fixing
- Without lateral offset of hinge bodies
- With additional gasket compression adjustment



Security

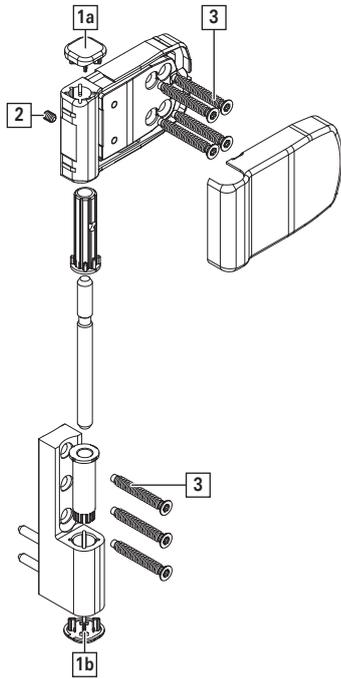
- SKG** certified

Presetting 30.5 (screws per hinge: 7x 7.3 x 50)

						Nº
15 – 17.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	541959 
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	541961 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	541962 
17.5 – 20	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	541978 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	541979 
19 – 21.5	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	547502 
20 – 22.5	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546914 
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	551125 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	543842 
23 – 25.5	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546969 
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	544539 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	544538 



4.12.1 Spare parts



- [1] Cover cap
- [2] Axis pin fixing
- [3] Fixing screw

[1] Cover cap

[1a] Top cover cap



			Nº
Cover cap	Black	10 Piece(s)	809946 <input type="checkbox"/>
	White	10 Piece(s)	809947 <input type="checkbox"/>

[1b] Bottom cover cap



			Nº
Cover cap	Black	10 Piece(s)	809914 <input type="checkbox"/>
	White	10 Piece(s)	809945 <input type="checkbox"/>

[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

[3] Fixing screws



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912

4.12.2 Accessories

4.12.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049

4.12.2.2 Packing plates

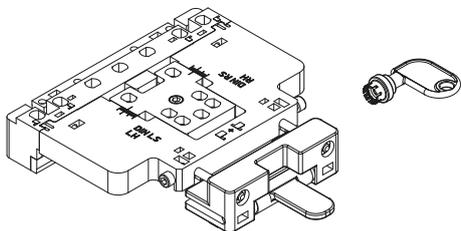


					Nº
2	128	25	Black	10 Piece(s)	809334
			White	10 Piece(s)	809333



4.12.2.3 Jig

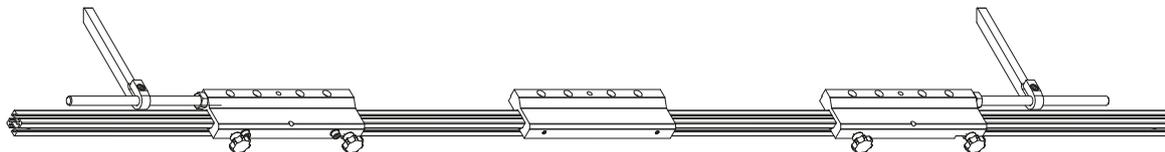
Drilling jig



			Nº
Drilling jig	incl. adjustment key	1 Piece(s)	540603 



Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 

4.12.2.4 Adjustment key



		Nº
Gasket compression adjustment key	1 Piece(s)	540621 

Product characteristics



Design

- Wide selection of colours
- Powder-coated or anodised surface



Comfort

- Maintenance-free thanks to high-quality self-lubricating PVC bush
- Axis pin can be installed and removed in an upward and downward direction, making it ideal when space for installation and removal is limited between leaf and lintel



Efficiency

- Can be used on DIN left / DIN right for reduced logistics and administrative outlay
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- Adjustment when fully assembled without undoing the fixing
- Without lateral offset of hinge bodies
- With additional gasket compression adjustment



Security

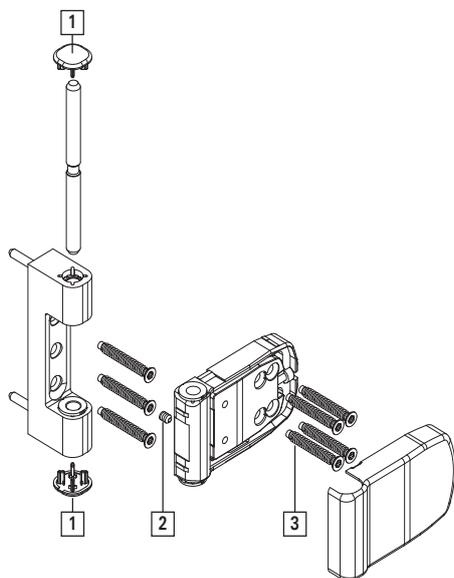
- SKG***-certified

Presetting 30.5 (screws per hinge: 7x 7.3 x 50)

						N ^o
12.5 – 15	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	541993 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546911 <input type="checkbox"/>
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	541995 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	541996 <input type="checkbox"/>
15 – 17.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	542012 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	545700 <input type="checkbox"/>
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	542014 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	542015 <input type="checkbox"/>
17.5 – 20	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	542029 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	542031 <input type="checkbox"/>
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	542032 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	542033 <input type="checkbox"/>
19 – 21.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	547497 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	547500 <input type="checkbox"/>
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	547498 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	547496 <input type="checkbox"/>
20 – 22.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	546916 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546915 <input type="checkbox"/>
	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	544536 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	544311 <input type="checkbox"/>
23 – 25.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	546918 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546917 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	544312 <input type="checkbox"/>
25 – 27.5	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	624583 <input type="checkbox"/>
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	624582 <input type="checkbox"/>
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	624580 <input type="checkbox"/>



4.13.1 Spare parts



- [1] Cover cap
- [2] Axis pin fixing
- [3] Fixing screw

[1] Cover cap



			Nº
Cover cap	Black	10 Piece(s)	809914
	White	10 Piece(s)	809945

[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

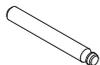
[3] Fixing screw



				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912

4.13.2 Accessories

4.13.2.1 Locking pin



			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 

4.13.2.2 Packing plates

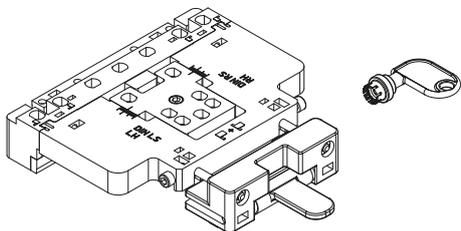


					Nº
1	140	25	Black	10 Piece(s)	809559 
			White	10 Piece(s)	809558 



4.13.2.3 Jig

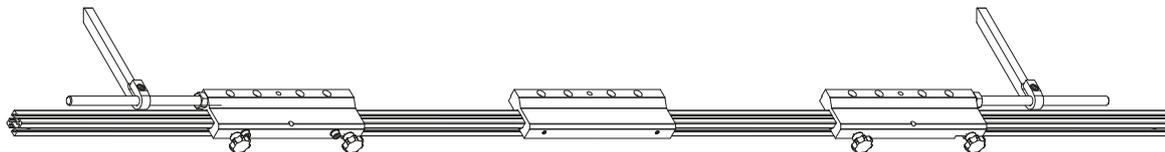
Drilling jig



			Nº
Drilling jig	incl. adjustment key	1 Piece(s)	540603 



Telescopic holder for drilling jigs



		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408 

4.13.2.4 Adjustment key



		Nº
Gasket compression adjustment key	1 Piece(s)	540621 

4.13.3 Drawings

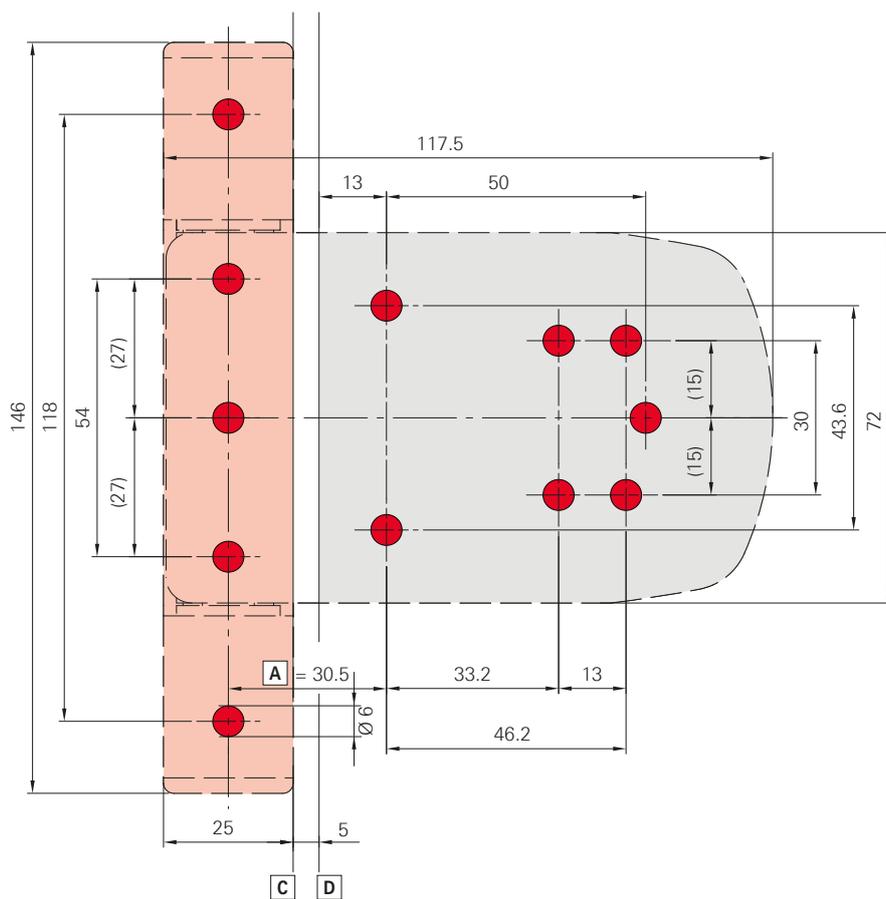
4.13.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body



4.14 Profile overview

For 80 ATB, 120 ATB



INFO

The profile combinations shown in the overview are a selection of the possible combinations. Other profile combinations are available upon request.

Flush profiles

Profile system	Frame number	Leaf number	Flatness deviation	Screw for direct mounting	Linkdrill I	Backing plate				
Akothem AT 600	2802	2878	89	–	–	23.4 8.25				
	2879									
	2875	62.5								
Akothem AT 730 HI-S	2426	2428	62.5	8 x 63	14 x 50	23.4 8.25				
	2427	2427	62.5	8 x 63	14 x 50	–				
	2501	2427	62.5	8 x 63	14 x 50	23.4 8.25				
	2534									
	2502	2577	62.5	8 x 63	–	–				
		2577	62.5	–	14 x 50	23.4 8.25				
	2575	2577	62.5	–	14 x 50	23.4 8.25				
	2576	2578	62.5	–	14 x 50	23.4 8.25				
2700	2577	62.5	8 x 63	–	23.4 8.25					
Akothem AT 740 SI	1418	1426	62.5	8 x 63	–	–				
		1437								
	1422	1427	62.5	8 x 63	14 x 50	23.4 8.25				
	1425	1420	62.5	8 x 63	14 x 50	–				
		1427	62.5	8 x 63	–	–				
	1426	1428	62.5	8 x 68	14 x 50	23.4 8.25				
	1429	2502	89	–	14 x 50	23.4 8.25				
					14 x 60					
	1430	1437	84	8 x 63	–	–				
	1437	1502	1417	62.5	–	14 x 50	23.4 8.25			
			1427							
1436			62.5					8 x 63	–	–
2502			89					–	14 x 50	23.4 8.25
Aliplast Eco Futural	EF414	EF425	62.5	8 x 63	–	–				
Aliplast Econoline	EL014X	EL024X	62.5	–	–	23.4 8.25				
Aliplast Futural	FT015	FT024	62.5	–	14 x 50	23.4 8.25				
Aliplast Green Star	GT414	GT425	62.5	8 x 63	–	–				
	GT415	GT424	62.5	8 x 63	–	–				
Aliplast Imperial	IP014	IP025	62.5	8 x 63	14 x 50	23.4 8.25				
	IP015	IP024	62.5	–	14 x 50	23.4 8.25				
	IP218	IP220	62.5	–	14 x 50	23.4 8.25				
	IP814	IP825	62.5	–	14 x 50	–				
Aliplast Superial	SP014	SP025	62.5	8 x 63	14 x 50	23.4 8.25				
Aliplast Triline	TL214	TL224	62.5	–	–	23.4 8.25				
	TL216									
	TL214	TL225	62.5	–	–	23.4 8.25				
AluK b-Quick	P-19-A442	P-19-A242	67.5	–	14 x 50	–				
AluK So Easy	P-B88-A101	P-B88-A2020	62.5	8 x 63	–	–				
	P-B88-A1070	P-B88-A2070	62.5	8 x 63	14 x 50	–				
	P-B88-A1071	P-B88-A2070	62.5	8 x 63	14 x 50	23.4 8.25				

Roto Solid S – Screw-on hinges
Profile overview

Profile system	Frame number	Leaf number	Flatness deviation	Screw for direct mounting	Linkdrill I	Backing plate	
AluK Triton	P-03-124	P-03-224	62.5	–	14 x 50	23.4 8.25	
	P-03-125	P-03-225	62.5	–	14 x 50	23.4 8.25	
	P-03-224						
	P-04-A101	P-03-A213	62.5	8 x 63	–	–	
	P-03-A010	P-03-A214	62.5	8 x 63	–	–	
Alumil M11000	M11014	M11082	62.5	–	14 x 50		
	M11086	M11082	62.5	–	–	23.4 8.25	
		M11134					
	M11088	M11084	62.5	–	14 x 50	–	
		M11082	62.5	–	14 x 50	–	
		M11084					
	M11586	M11454					
		M11464					
		M11582	62.5	8 x 63	14 x 50	23.4 8.25	
M11636							
M15078	M15182	62.5	–	–	23.4 8.25		
M62514	M11082	62.5	–	–	23.4 8.25		
M62518	M11134	62.5	–	–	23.4 8.25		
Alumil SD 95	S95002	S95004	62.5	–	14 x 50	23.4 8.25	
		S95006					
Aluprof MB-59S	K58154X	K518168X	67.5	–	–	23.4 8.25	
Aluprof MB-60	008052d	008083d	62.5	–	–	23.4 8.25	
	008055d						
	008052d	008084d	89	–	14 x 50	–	
	008085d						
	008056d	008084d	62.5	–	14 x 50	–	
K518387X	K518390X	62.5	8 x 63	14 x 50	23.4 8.25		
Aluprof MB-70	9379	9382	62.5	–	14 x 50	–	
Aluprof MB-86	K518055X	K518083X	62.5	8 x 63	–	–	
	K518056X	K518084X					
	K518105X	K518114X					
	K518106X	K518115X					
	K518612X	K518740X					
	K518612X	K518742X	89	–	14 x 50	–	
	K518739X	K518746X					
		K518750X					
	K518730X	K518740X	62.5	8 x 63	–	–	
		K518744X	62.5	8 x 63	14 x 50	23.4 8.25	
K518748X							
K518758X							
K518762X	62.5	8 x 63	14 x 50	–			
K518731X	K518762X	62.5	–	14 x 50	–		
Aluron ACS 50	k2402XX	k2501XX	62.5	–	–	15 x 21.5	
	p2401XX	p2403XX	62.5	8 x 63	–	–	
	p2411XX	p2415XX					
Aluron AS 52	p1401XX	p1403XX	62.5	–	–	23.4 8.25	
	p14052XX	p1404XX					





Profile system	Frame number	Leaf number	Flatness deviation	Screw for direct mounting	Linkdrill I	Backing plate	
GUTMANN GWD 050n	252102	250280	62.5	–	–	23.4 8.25	
	252112						
	252180						
	462805						
	462806						
	252102	252102	84	–	–	23.4 8.25	
	252112						
	462807						
	GUTMANN GWD 070n	252302	252280	62.5	–	–	23.4 8.25
		252112	252281				
		252180	252281	84	–	–	23.4 8.25
		462806					
252102							
252302							
252382							
GUTMANN GWD 080n	270102	270280	62.5	–	14 x 50	23.4 8.25	
	270180						
	460805						
	270180	270280	62.5	8 x 63	–	–	
	270302	270280	62.5	8 x 63	–	23.4 8.25	
	270181	270181	62.5	–	14 x 50	–	
	270102	270181	89	8 x 63	14 x 50	–	
	270302	270282	62.5	–	14 x 50	23.4 8.25	
	270382						
270180							
270281	270282	62.5	–	14 x 50	–		
heroal D65	280180	280281	62.5	8 x 63	14 x 50	23.4 8.25	
heroal D72	9358	9381	62.5	–	14 x 50	23.4 8.25	
	9380						
	9383		89	–	14 x 50	23.4 8.25	
heroal D92	21680	21681	62.5	8 x 63	–	–	
	21780	21765					
	21080	19541					
HUECK A72		21081					
	23060-02	23089	62.5	–	14 x 50	23.4 8.25	
	572160	572260	62.5	–	–	23.4 8.25	
572161	572261						
76410	76402						
HUECK Lambda DS 090	B840002	B842200	62.5	8 x 63	–	–	
	B842000	B842201					
		B842205					
		B842206					
Ponzio PE68	6762	6765	62.5	8 x 63	–	–	
Ponzio PE78N	7848	7865	62.5	8 x 73	14 x 50	–	
	7562	7564	62.5	8 x 63	–	–	

Profile system	Frame number	Leaf number	Flatness deviation	Screw for direct mounting	Linkdrill I	Backing plate			
Reynaers CS 68	50869	51014	62.5	–	–	23.4 8.25			
			78	–	14 x 50	–			
			89	–	14 x 50	21.5 x 15.5			
	50028 50114 50120 50028 50125	51026		62.5	–	14 x 50	21.5 x 15.5		
				89	–	14 x 50	21.5 x 15.5		
				005.0454	005.3026	89	–	14 x 50	21.5 x 15.5
				005.2027					
Reynaers CS 77	008.0469.XX 008.0569.XX 008.0428.XX	008.2014.XX	62.5	–	14 x 50	–			
			89	–	14 x 50	–			
			89	–	14 x 50	–			
	008.3183.XX 008.0589.XX 008.1029.XX 008.1898.XX 008.3183.XX	008.2026.XX		62.5	–	14 x 50	21.5 x 15.5		
				108.0869	108.0014	62.5	–	14 x 50	–
				108.0028		89	–	14 x 50	–
				108.0125					
	108.0898	108.0026	62.5	–	14 x 50	–			
	108.0869	108.1014	62.5	–	14 x 50	–			
	Schüco ADS 50	395010	395090	62.5	–	–	23.4 x 8.25		
	Schüco ADS 60	396010	396090	62.5	–	14 x 50	23.4 x 8.25		
		396020	396110	62.5	–	14 x 50	–		
396040 396150									
Schüco ADS 65	362080	362170	62.5	–	14 x 50	21.5 x 15.5			
	361000	362200	62.5	–	14 x 50	21.5 x 15.5			
	362100		62.5	–	14 x 50	21.5 x 15.5			
	362100		67.5	–	14 x 50	–			
	364010		67.5	–	14 x 50	21.5 x 15.5			
Schüco ADS 70	358170	395530	62.5	8 x 63	14 x 50	23.4 8.25			
		395540							
	372200	372310	62.5	8 x 63	14 x 50	23.4 8.25			
	372220	372310	62.5	8 x 63	14 x 50	21.5 x 15.5			
		372410	62.5	–	14 x 50	23.4 x 8.25			
		395440	62.5	8 x 63	–	–			
	395540			62.5	–	14 x 50	21.5 x 15.5		
				62.5	–	14 x 50	21.5 x 15.5		
				62.5	–	14 x 50	21.5 x 15.5		
	372240	372340	62.5	–	–	14 x 50	–		
		372370							
		395650							
372280	372370	89	–	–	14 x 50	–			
	395600								
	395650								
372540	372610	62.5	8 x 63	14 x 50	21.5 x 15.5				
398670	395530	62.5	–	14 x 50	21.5 x 15.5				



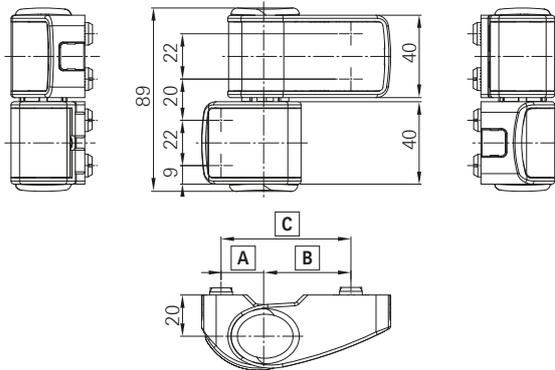


Profile system	Frame number	Leaf number	Flatness deviation	Screw for direct mounting	Linkdrill I	Backing plate
Schüco ADS 75.SI	371190	371280	62.5	8 x 63	–	21.5 x 15.5
	371210	371280	62.5	–	14 x 50	21.5 x 15.5
	381870	395700	62.5	8 x 63	–	–
		381960	62.5	8 x 63	14 x 50	21.5 x 15.5
		381980	62.5	8 x 63	–	21.5 x 15.5
	381890	395760	62.5	8 x 63	–	–
395720		67.5	–	14 x 50	–	
Schüco ADS 70	372220	372310	62.5	8 x 63	14 x 50	21.5 x 15.5
		395530	67.5	–	14 x 50	21.5 x 15.5
	372240	372340	62.5	–	14 x 50	–
		395590	67.5	–	14 x 50	–
Yawal PBI 50N	01.11066	01.21071	62.5	–	–	23.4 8.25
Yawal TM 62HI	04.14067	0.424078	62.5	–	–	23.4 8.25
	04.14053	04.24092	62.5	–	14 x 50	23.4 8.25
	04.14067	04.24078				
Yawal TM 77HI	1.814.053	1.824.089	62.5	–	14 x 50	–
		1.824.092				
	1.814.067	1.824.078	62.5	–	14 x 50	23.4 8.25
		1.824.084				
Yawal TM 77HI Prestige	14.14067.x	14.24080.x	78	–	14 x 50	23.4 8.25

Recessed profiles

Profile system	Frame number	Leaf number	Flatness deviation	Packing plate	Screw for direct mounting	Linkdrill I	Linkdrill II	Backing plate
Aliplast Imperial	IP011	IP023	62.5	9	–	14 x 50	–	23.4 8.25
Aliplast Superial	SP036	SP624						
GUTMANN CORA	CF62.25	CF77.25	78	17	–	14 x 50	–	–
Schüco ADS 70	372540	372700	62.5	10	–	14 x 50	–	23.4 8.25
Schüco ADS 75.SI	381870	382760	62.5	10	–	–	–	21.5 x 15.5
	371190	371370	62.5	10	–	–	–	21.5 x 15.5
	371210	371370	62.5	10	–	14 x 50	–	21.5 x 15.5
Yawal TM 62HI	04.11077	04.21093	62.5	9.4	–	14 x 50	–	23.4 8.25
Yawal TM 77HI	1.814.053	1.824.098	62.5	10	–	14 x 50	–	–

4.15 80 ATB



[A] Distance from centre of shadow groove or pivot point to frame fixing

[B] Distance from centre of shadow groove or pivot point to leaf fixing

[C] Flatness deviation



Product description

The Roto Solid S | 80 ATB two-part screw-on hinge is suitable for aluminium entrance doors up to a sash weight of 100 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Product characteristics



Design

- Hinge casing made from die-cast zinc and covers made from extruded aluminium
- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush
- Hinge and accessory modules can be combined in different ways



Efficiency

- Preassembled on DIN left / DIN right for rapid and simple installation
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing and without removing the covers
- Without lateral offset of hinge bodies

Advantages at a glance

- For aluminium entrance doors up to 100 kg
- Suitable for flush and recessed profiles
- Mounting type can be freely selected – Linkdrill, direct mounting or backing plates
- With integrated adjusting scale

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: +3 mm
- Gasket compression adjustable: ± 0.75 mm

Mounting types

Profile material	Backing plate → from page 196	Linkdrill I → from page 197	Linkdrill II → from page 209	Direct mounting → from page 197
Aluminium	■	■	–	■



Profile material	Backing plate → from page 196	Linkdrill I → from page 197	Linkdrill II → from page 209	Direct mounting → from page 197
Timber	–	–	–	–
Timber-aluminium	–	–	–	–

■ = possible, - = not possible

Mounting with backing plate or Linkdrill I



INFO

Mounting material is not included in the scope of delivery → from page 196.

								Nº
62.5	20.5	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548292 <input checked="" type="checkbox"/>
			RAL 8077	–	Dark brown	Right	6 Piece(s)	548296 <input checked="" type="checkbox"/>
			RAL 9005	R06.2	Jet black	Left	6 Piece(s)	565485 <input checked="" type="checkbox"/>
			RAL 9005	R06.2	Jet black	Right	6 Piece(s)	565493 <input checked="" type="checkbox"/>
			RAL 9006	–	White aluminium	Left	6 Piece(s)	548291 <input checked="" type="checkbox"/>
			RAL 9006	–	White aluminium	Right	6 Piece(s)	548295 <input checked="" type="checkbox"/>
			RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548290 <input checked="" type="checkbox"/>
			RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548294 <input checked="" type="checkbox"/>
			SF	SF	Special colour	Left	1 Piece(s)	2005930 <input type="checkbox"/>
			SF	SF	Special colour	Right	1 Piece(s)	2005931 <input type="checkbox"/>
			–	–	Stainless steel appearance	Left	6 Piece(s)	836998 <input type="checkbox"/>
			–	–	Stainless steel appearance	Right	6 Piece(s)	836999 <input type="checkbox"/>
			R00.0	R00.0	Uncoated	–	6 Piece(s)	549472 <input type="checkbox"/>
67.5	47	RAL 9005	R06.2	Jet black	Left	6 Piece(s)	619393 <input checked="" type="checkbox"/>	
		RAL 9005	R06.2	Jet black	Right	6 Piece(s)	619400 <input checked="" type="checkbox"/>	
		RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548298 <input checked="" type="checkbox"/>	
		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548302 <input checked="" type="checkbox"/>	
		SF	SF	Special colour	Left	1 Piece(s)	2005932 <input type="checkbox"/>	
		SF	SF	Special colour	Right	1 Piece(s)	2005933 <input type="checkbox"/>	
		–	–	Stainless steel appearance	Left	6 Piece(s)	837002 <input type="checkbox"/>	
		–	–	Stainless steel appearance	Right	6 Piece(s)	837003 <input type="checkbox"/>	
		R00.0	R00.0	Uncoated	–	6 Piece(s)	810463 <input type="checkbox"/>	
78	57.5	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548306 <input checked="" type="checkbox"/>	
		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548310 <input checked="" type="checkbox"/>	
		SF	SF	Special colour	Left	1 Piece(s)	2005934 <input type="checkbox"/>	
		SF	SF	Special colour	Right	1 Piece(s)	2005935 <input type="checkbox"/>	
		–	–	Stainless steel appearance	Left	6 Piece(s)	837004 <input type="checkbox"/>	
		–	–	Stainless steel appearance	Right	6 Piece(s)	837010 <input type="checkbox"/>	
84	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548316 <input checked="" type="checkbox"/>	
		RAL 8077	–	Dark brown	Right	6 Piece(s)	548320 <input checked="" type="checkbox"/>	
		RAL 9005	R06.2	Jet black	Left	6 Piece(s)	565525 <input checked="" type="checkbox"/>	
		RAL 9005	R06.2	Jet black	Right	6 Piece(s)	565528 <input checked="" type="checkbox"/>	
		RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548314 <input checked="" type="checkbox"/>	
		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548318 <input checked="" type="checkbox"/>	
		SF	SF	Special colour	Left	1 Piece(s)	2005936 <input type="checkbox"/>	
		SF	SF	Special colour	Right	1 Piece(s)	2005937 <input type="checkbox"/>	
		–	–	Stainless steel appearance	Left	6 Piece(s)	837011 <input type="checkbox"/>	
		–	–	Stainless steel appearance	Right	6 Piece(s)	837012 <input type="checkbox"/>	



								N ^o
94	47	47	RAL 9005	R06.2	Jet black	Left	6 Piece(s)	619404 <input checked="" type="checkbox"/>
			RAL 9005	R06.2	Jet black	Right	6 Piece(s)	619409 <input checked="" type="checkbox"/>
			RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548346 <input checked="" type="checkbox"/>
			RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548350 <input checked="" type="checkbox"/>
			–	–	Stainless steel appearance	Left	6 Piece(s)	837026 <input type="checkbox"/>
			–	–	Stainless steel appearance	Right	6 Piece(s)	837027 <input type="checkbox"/>
			SF	SF	Special colour	Left	1 Piece(s)	2005938 <input type="checkbox"/>
			SF	SF	Special colour	Right	1 Piece(s)	2005939 <input type="checkbox"/>

Direct mounting



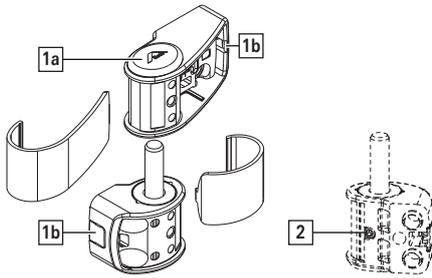
INFO

For special colours, mounting material is not included in the scope of delivery → *from page 197.*

										N ^o					
62.5	20.5	42	4	8x63	RAL 8077	–	Dark brown	Left	6 Piece(s)	736014 <input checked="" type="checkbox"/>					
					RAL 8077	–	Dark brown	Right	6 Piece(s)	736028 <input checked="" type="checkbox"/>					
					RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	736026 <input checked="" type="checkbox"/>					
					RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	736030 <input checked="" type="checkbox"/>					
					RAL 9016	R07.2	Traffic white	Left	24 Piece(s)	776239 <input type="checkbox"/>					
					RAL 9016	R07.2	Traffic white	Right	24 Piece(s)	776240 <input type="checkbox"/>					
					SF	SF	Special colour	Left	1 Piece(s)	2005940 <input type="checkbox"/>					
					SF	SF	Special colour	Right	1 Piece(s)	2005941 <input type="checkbox"/>					
					–	–	Stainless steel appearance	Left	6 Piece(s)	837000 <input type="checkbox"/>					
					–	–	Stainless steel appearance	Right	6 Piece(s)	837001 <input type="checkbox"/>					
					–	–	Stainless steel appearance	Left	24 Piece(s)	828124 <input checked="" type="checkbox"/>					
					–	–	Stainless steel appearance	Right	24 Piece(s)	828130 <input checked="" type="checkbox"/>					
					–	–	Stainless steel appearance	Left	24 Piece(s)	828131 <input checked="" type="checkbox"/>					
					–	–	Stainless steel appearance	Right	24 Piece(s)	828132 <input checked="" type="checkbox"/>					
					–	–	Untreated	Left	24 Piece(s)	825058 <input type="checkbox"/>					
					–	–	Untreated	Right	24 Piece(s)	825059 <input type="checkbox"/>					
					–	–	Untreated	Left	24 Piece(s)	825065 <input type="checkbox"/>					
					–	–	Untreated	Right	24 Piece(s)	825066 <input type="checkbox"/>					
					84	42	42	4	8x73	RAL 9016	R07.2	Traffic white	Left	24 Piece(s)	775771 <input checked="" type="checkbox"/>
										RAL 9016	R07.2	Traffic white	Right	24 Piece(s)	775772 <input checked="" type="checkbox"/>
SF	SF	Special colour	Left	1 Piece(s)						2005942 <input type="checkbox"/>					
SF	SF	Special colour	Right	1 Piece(s)						2005943 <input type="checkbox"/>					
–	–	Stainless steel appearance	Left	24 Piece(s)						837013 <input type="checkbox"/>					
–	–	Stainless steel appearance	Right	24 Piece(s)	837014 <input type="checkbox"/>										



4.15.1 Spare parts



- [1] Cover cap
- [2] Axis pin fixing

[1] Cover cap

[1a] Top / bottom cover cap



			Nº
Cover cap	Black	10 Piece(s)	809562 <input type="checkbox"/>
	White	10 Piece(s)	809565 <input type="checkbox"/>

[1b] Side cover cap



			Nº
Cover cap	Black	10 Piece(s)	809563 <input type="checkbox"/>
	White	10 Piece(s)	809564 <input type="checkbox"/>

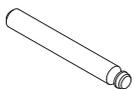
[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047 <input type="checkbox"/>

4.15.2 Accessories

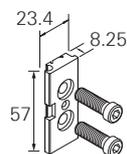
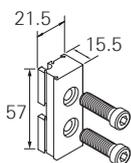
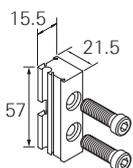
4.15.2.1 Locking pin



		Nº
Locking pin	100 Piece(s)	825056 <input type="checkbox"/>

4.15.2.2 Mounting

4.15.2.2.1 Backing plate set



				Nº
15.5	21.5	M8x25	1 Set(s)	548484 <input type="checkbox"/>
21.5	15.5	M8x25	1 Set(s)	548945 <input type="checkbox"/>
23.4	8.25	M8x25	1 Set(s)	551296 <input type="checkbox"/>

Contents

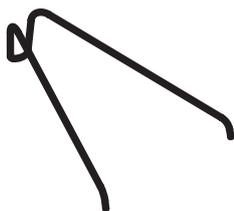
Figure	Quantity	Description
	48	Frame and sash hinge backing plate
	96	Fixing screws for backing plates



INFO

For additional fixing screw lengths, see "Screw fixing" → *from page 197*.

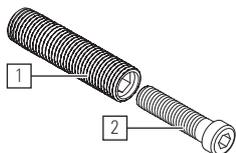
Stainless-steel spring



		Nº
Stainless steel spring for use with backing plates	200 Piece(s)	894093 <input type="checkbox"/>



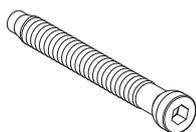
4.15.2.2.2 Linkdrill I



- [1] Linkdrill I
- [2] Fixing screw

				Nº
Link drill I M14x50	–	–	48 Piece(s)	548516 <input type="checkbox"/>
	with fixing screw	M8x40	48 Piece(s)	548515 <input type="checkbox"/>
Link drill I M14x60	–	–	48 Piece(s)	561379 <input type="checkbox"/>
	with fixing screw	M8x40	48 Piece(s)	561698 <input type="checkbox"/>
Linkdrill I M14x80	–	–	48 Piece(s)	630606 <input type="checkbox"/>

4.15.2.2.3 Direct mounting (optional)



			Nº
63	Silver	48 Piece(s)	771087 <input type="checkbox"/>
68	Black	48 Piece(s)	771088 <input type="checkbox"/>
73	Green	48 Piece(s)	771089 <input type="checkbox"/>

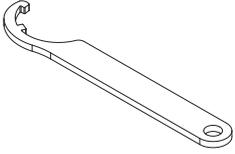
4.15.2.2.4 Screw fixing

Fixing screws for backing plates, Linkdrill I and Linkdrill II



		Nº
M8x25	48 Piece(s)	547947 <input type="checkbox"/>
M8x40	48 Piece(s)	548512 <input type="checkbox"/>
M8x50	48 Piece(s)	548513 <input type="checkbox"/>

4.15.2.3 Adjustment key



			N ^o
Gasket compression adjustment key for 80 ATB, 120 ATB	1 Piece(s)	825046	





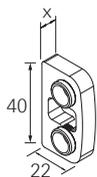
4.15.2.4 Packing plates



INFO

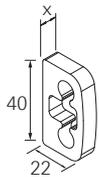
To support the frame in the case of offset profile combinations.

Packing plates for mounting with backing plates or Linkdrill I



					N ^o
7	RAL 8077	–	Dark brown	6 Piece(s)	548490 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	6 Piece(s)	568360 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548488 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005960 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858503 <input type="checkbox"/>
10	RAL 8077	–	Dark brown	6 Piece(s)	548494 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	6 Piece(s)	568361 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548492 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005961 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858504 <input type="checkbox"/>
12	RAL 9016	R07.2	Traffic white	6 Piece(s)	548496 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005962 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858530 <input type="checkbox"/>
14	RAL 9016	R07.2	Traffic white	6 Piece(s)	548500 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005963 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858531 <input type="checkbox"/>
16	SF	SF	Special colour	1 Piece(s)	2005964 <input type="checkbox"/>
18	RAL 9016	R07.2	Traffic white	6 Piece(s)	548504 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005965 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858532 <input type="checkbox"/>
19	RAL 9016	R07.2	Traffic white	6 Piece(s)	548508 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005966 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858533 <input type="checkbox"/>

Packing plates for direct mounting

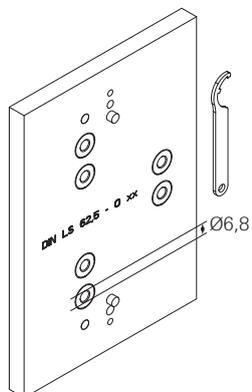


					N ^o
5.7	-	-	Stainless steel appearance	24 Piece(s)	825071 <input checked="" type="checkbox"/>
7	RAL 9006	-	White aluminium	6 Piece(s)	764321 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764322 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005967 <input type="checkbox"/>
10	RAL 9006	-	White aluminium	6 Piece(s)	764272 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764273 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005968 <input type="checkbox"/>
	-	-	Stainless steel appearance	24 Piece(s)	828137 <input checked="" type="checkbox"/>
14	-	-	Stainless steel appearance	24 Piece(s)	828138 <input checked="" type="checkbox"/>



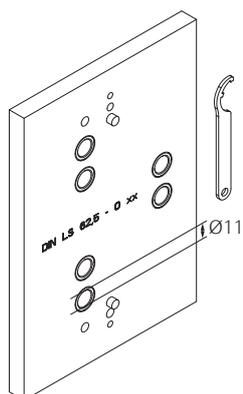
4.15.2.5 Jigs

Drilling jig for direct mounting



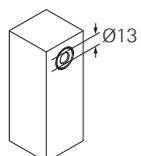
						Nº
Drilling jig direct mounting	incl. adjustment key	62.5	20.5	42	1 Piece(s)	737661

Drilling jig for backing plate and Linkdrill I



						Nº
Drilling jig for backing plate and link drill I	incl. adjustment key	62.5	20.5	42	1 Piece(s)	547218
		67.5	20.5	47	1 Piece(s)	547223
		78	20.5	57.5	1 Piece(s)	547225
		84	42	42	1 Piece(s)	547227
		94	47	47	1 Piece(s)	547235

Additional drilling jig for Linkdrill I



		Nº
Additional drilling jig for link drill I	1 Piece(s)	598478



INFO

The following is required for **direct screw fixing**:

Drilling jig for direct screw fixing, Ø 6.8 mm drill

The following is required for working with **backing plates**:

Drilling jig for backing plate and Linkdrill I, Ø 11 mm drill

The following is required for working with **Linkdrill I**:

Drilling jig for backing plate and Linkdrill I, additional drilling jig for Linkdrill I, Ø 11 mm drill, Ø 13 mm drill

4.15.3 Drawings

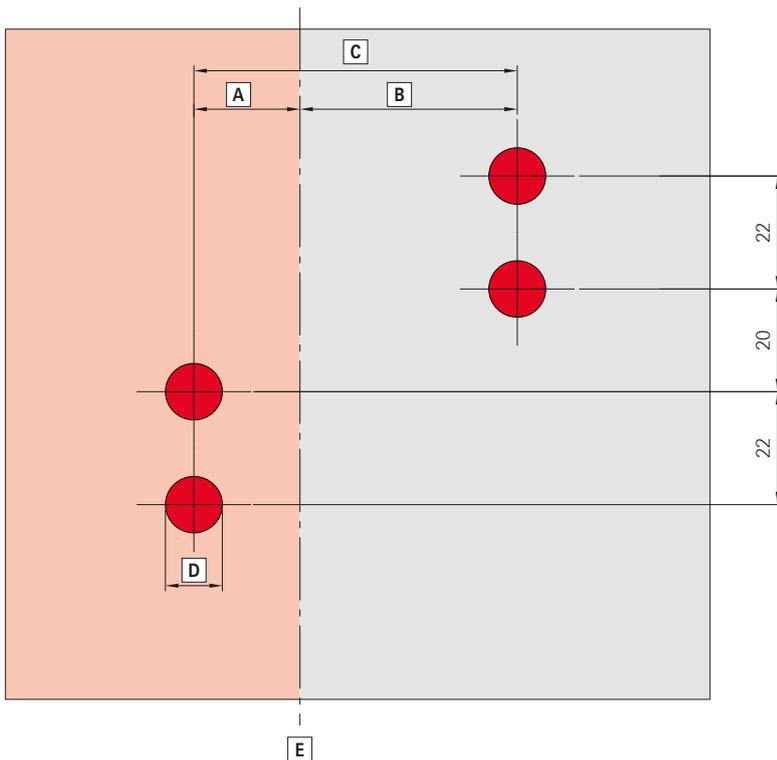
4.15.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



[A] Distance from centre of shadow groove or pivot point to frame fixing

[B] Distance from centre of shadow groove or pivot point to leaf fixing

[C] Flatness deviation

[D] Diameter	Version
Ø 6.8	Direct mounting
Ø 11	Backing plate
Ø 13	Linkdrill I

[E] Centre of shadow groove or pivot point



4.15.3.2 Installation drawings

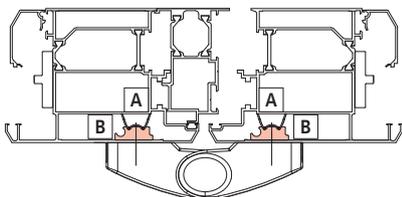


INFO

Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.

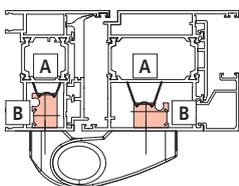
Backing plates



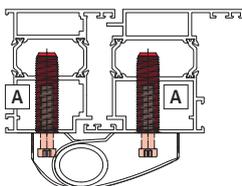
[A] Stainless-steel spring

[B] Backing plates → *from page 208*

[C] Packing plates, optional → *from page 211*



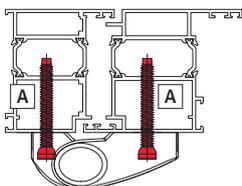
Linkdrill I



[A] Linkdrill I → *from page 209*

Packing plates, optional (not sh.)

Direct mounting

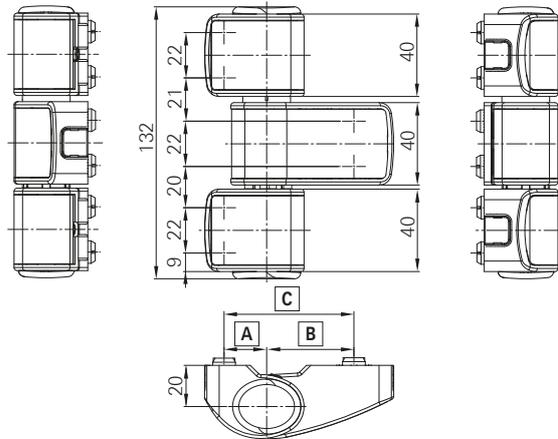


[A] Fixing screw for direct mounting → *from page 209*

Packing plates, optional (not sh.)



4.16 120 ATB



- [A] Distance from centre of shadow groove or pivot point to frame fixing
[B] Distance from centre of shadow groove or pivot point to leaf fixing
[C] Flatness deviation



Product description

The Roto Solid S | 120 ATB three-part screw-on hinge is suitable for frequently used aluminium entrance doors up to a sash weight of 160 kg.

Roto Solid S screw-on hinges offer solutions in various different performance categories and design lines.

A wide range of powder-coated surfaces enables an individual colour design – for door hinges which seamlessly blend into the overall appearance of the door.

Large adjustment distances enable custom adaptations on the hinge side that contribute towards the functionality and durability of the door as a whole.



Advantages at a glance

- For aluminium entrance doors up to 160 kg
- Suitable for flush and recessed profiles
- Designed for frequently used doors in public buildings
- Mounting type can be freely selected – Linkdrill, direct mounting or backing plates
- With integrated adjusting scale

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: +3 mm
- Gasket compression adjustable: ± 0.75 mm

Product characteristics



Design

- Hinge casing made from die-cast zinc and covers made from extruded aluminium
- Wide selection of colours
- Powder-coated surface



Comfort

- Low-maintenance powder-coated surface
- Maintenance-free thanks to high-quality self-lubricating PVC bush
- Hinge and accessory modules can be combined in different ways



Efficiency

- Preassembled on DIN left / DIN right for rapid and simple installation
- Pin module and cylindrical pin made from stainless steel ensure added durability



Adjustment

- With integrated adjusting scale
- Adjustment when fully assembled without undoing the fixing and without removing the covers
- Without lateral offset of hinge bodies



Mounting types

Profile material	Backing plate → from page 208	Linkdrill I → from page 209	Linkdrill II → from page 209	Direct mounting → from page 209
Aluminium	■	■	–	■
Timber	–	–	■	–
Timber-aluminium	–	–	■	–

■ = possible, - = not possible

Mounting with backing plate, Linkdrill I or Linkdrill II



INFO

Mounting material is not included in the scope of delivery → from page 196.



								N ^o			
62.5	20.5	42	RAL 9005	R06.2	Jet black	Left	6 Piece(s)	568358 <input checked="" type="checkbox"/>			
			RAL 9005	R06.2	Jet black	Right	6 Piece(s)	568359 <input checked="" type="checkbox"/>			
			RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548386 <input checked="" type="checkbox"/>			
			RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548390 <input checked="" type="checkbox"/>			
			SF	SF	Special colour	Left	1 Piece(s)	2005944 <input type="checkbox"/>			
			SF	SF	Special colour	Right	1 Piece(s)	2005945 <input type="checkbox"/>			
			–	–	Stainless steel appearance	Left	6 Piece(s)	837028 <input type="checkbox"/>			
			–	–	Stainless steel appearance	Right	6 Piece(s)	837035 <input type="checkbox"/>			
			R00.0	R00.0	Uncoated	Left	24 Piece(s)	2010177 <input type="checkbox"/>			
			R00.0	R00.0	Uncoated	Right	24 Piece(s)	2010178 <input type="checkbox"/>			
67.5		47	RAL 8077	–	Dark brown	Left	6 Piece(s)	548396 <input checked="" type="checkbox"/>			
			RAL 8077	–	Dark brown	Right	6 Piece(s)	548400 <input checked="" type="checkbox"/>			
			RAL 9005	R06.2	Jet black	Left	6 Piece(s)	2002620 <input type="checkbox"/>			
			RAL 9005	R06.2	Jet black	Right	6 Piece(s)	2002621 <input type="checkbox"/>			
			RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548394 <input checked="" type="checkbox"/>			
			RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548398 <input checked="" type="checkbox"/>			
			SF	SF	Special colour	Left	1 Piece(s)	2005946 <input type="checkbox"/>			
			SF	SF	Special colour	Left	1 Piece(s)	2005947 <input type="checkbox"/>			
			–	–	Stainless steel appearance	Left	6 Piece(s)	837038 <input type="checkbox"/>			
			–	–	Stainless steel appearance	Right	6 Piece(s)	837039 <input type="checkbox"/>			
78		57.5	RAL 8077	–	Dark brown	Left	6 Piece(s)	548404 <input checked="" type="checkbox"/>			
			RAL 8077	–	Dark brown	Right	6 Piece(s)	548408 <input checked="" type="checkbox"/>			
			RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548402 <input checked="" type="checkbox"/>			
			RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548406 <input checked="" type="checkbox"/>			
			SF	SF	Special colour	Left	1 Piece(s)	2003977 <input type="checkbox"/>			
			SF	SF	Special colour	Right	1 Piece(s)	2003978 <input type="checkbox"/>			
			–	–	Stainless steel appearance	Left	6 Piece(s)	837045 <input type="checkbox"/>			
			–	–	Stainless steel appearance	Right	6 Piece(s)	837046 <input type="checkbox"/>			
			84	42	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548412 <input checked="" type="checkbox"/>
						RAL 8077	–	Dark brown	Right	6 Piece(s)	548416 <input checked="" type="checkbox"/>
RAL 9006	–	White aluminium				Left	6 Piece(s)	548411 <input checked="" type="checkbox"/>			
RAL 9006	–	White aluminium				Right	6 Piece(s)	548415 <input checked="" type="checkbox"/>			
RAL 9016	R07.2	Traffic white				Left	6 Piece(s)	548410 <input checked="" type="checkbox"/>			
RAL 9016	R07.2	Traffic white				Right	6 Piece(s)	548414 <input checked="" type="checkbox"/>			
SF	SF	Special colour				Left	1 Piece(s)	2005950 <input type="checkbox"/>			
SF	SF	Special colour				Right	1 Piece(s)	2005952 <input type="checkbox"/>			
–	–	Stainless steel appearance				Left	6 Piece(s)	837047 <input type="checkbox"/>			
–	–	Stainless steel appearance				Right	6 Piece(s)	837048 <input type="checkbox"/>			

								Nº
94	47	47	RAL 8077	–	Dark brown	Left	6 Piece(s)	548444 <input checked="" type="checkbox"/>
			RAL 8077	–	Dark brown	Right	6 Piece(s)	548448 <input checked="" type="checkbox"/>
			RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548442 <input checked="" type="checkbox"/>
			RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548446 <input checked="" type="checkbox"/>
			SF	SF	Special colour	Left	1 Piece(s)	2005954 <input type="checkbox"/>
			SF	SF	Special colour	Right	1 Piece(s)	2005955 <input type="checkbox"/>
			–	–	Stainless steel appearance	Left	6 Piece(s)	837056 <input type="checkbox"/>
			–	–	Stainless steel appearance	Right	6 Piece(s)	837057 <input type="checkbox"/>

Direct mounting

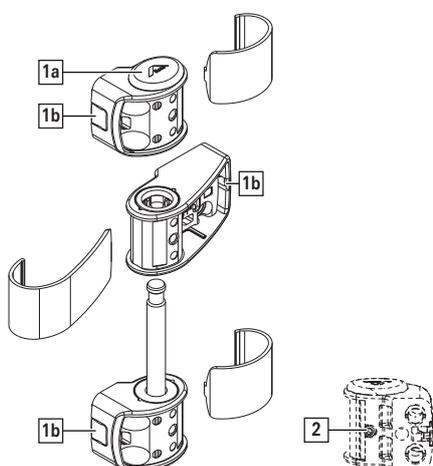


INFO

For special colours, mounting material is not included in the scope of delivery → *from page 209.*

										Nº	
62.5	20.5	42	#	6	8x63	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	736008 <input checked="" type="checkbox"/>
				6	8x63	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	736012 <input checked="" type="checkbox"/>
				–	–	SF	SF	Special colour	Left	1 Piece(s)	2005956 <input type="checkbox"/>
				–	–	SF	SF	Special colour	Right	1 Piece(s)	2005957 <input type="checkbox"/>
				6	8x63	–	–	Stainless steel appearance	Left	24 Piece(s)	837036 <input type="checkbox"/>
				6	8x63	–	–	Stainless steel appearance	Right	24 Piece(s)	837037 <input type="checkbox"/>
				6	8x68	–	–	Stainless steel appearance	Left	24 Piece(s)	828133 <input checked="" type="checkbox"/>
				6	8x68	–	–	Stainless steel appearance	Right	24 Piece(s)	828134 <input checked="" type="checkbox"/>
				6	8x73	–	–	Stainless steel appearance	Left	24 Piece(s)	828135 <input checked="" type="checkbox"/>
				6	8x73	–	–	Stainless steel appearance	Right	24 Piece(s)	828136 <input checked="" type="checkbox"/>
84	42			6	8x73	RAL 9016	R07.2	Traffic white	Left	24 Piece(s)	775763 <input checked="" type="checkbox"/>
				6	8x73	RAL 9016	R07.2	Traffic white	Right	24 Piece(s)	775764 <input checked="" type="checkbox"/>
				–	–	SF	SF	Special colour	Left	1 Piece(s)	2005958 <input type="checkbox"/>
				–	–	SF	SF	Special colour	Right	1 Piece(s)	2005959 <input type="checkbox"/>
				6	8x73	–	–	Stainless steel appearance	Left	24 Piece(s)	837049 <input type="checkbox"/>
				6	8x73	–	–	Stainless steel appearance	Right	24 Piece(s)	837055 <input type="checkbox"/>

4.16.1 Spare parts



[1a] Top / bottom cover cap



- [1b] Side cover cap
- [2] Axis pin fixing

[1] Cover cap

[1a] Top / bottom cover cap



			N ^o
Cover cap	Black	10 Piece(s)	809562 <input type="checkbox"/>
	White	10 Piece(s)	809565 <input type="checkbox"/>

[1b] Side cover cap



			N ^o
Cover cap	Black	10 Piece(s)	809563 <input type="checkbox"/>
	White	10 Piece(s)	809564 <input type="checkbox"/>

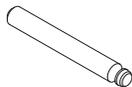
[2] Axis pin fixing



			N ^o
Axis pin fixing	M6x8	100 Piece(s)	825047 <input type="checkbox"/>

4.16.2 Accessories

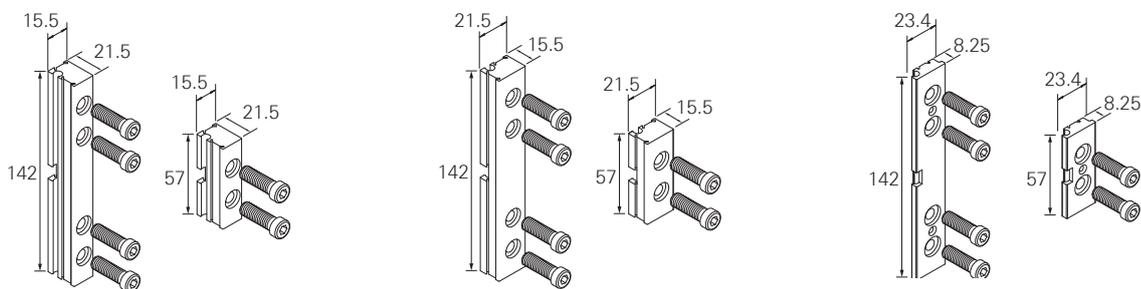
4.16.2.1 Locking pin



		N ^o
Locking pin	100 Piece(s)	825056 <input type="checkbox"/>

4.16.2.2 Mounting

4.16.2.2.1 Backing plate set



				Nº
15.5	21.5	M8x25	1 Set(s)	548486 <input type="checkbox"/>
21.5	15.5	M8x25	1 Set(s)	548946 <input type="checkbox"/>
23.4	8.25	M8x25	1 Set(s)	548485 <input type="checkbox"/>

Contents

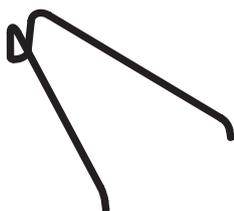
Figure	Quantity	Description
	24	Frame hinge backing plate
	24	Sash hinge backing plate
	144	Fixing screws for backing plates



INFO

For additional fixing screw lengths, see "Screw fixing" → *from page 197*.

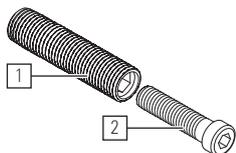
Stainless-steel spring



		Nº
Stainless steel spring for use with backing plates	200 Piece(s)	894093 <input type="checkbox"/>



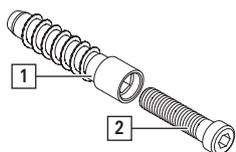
4.16.2.2.2 Linkdrill I



- [1] Linkdrill I
- [2] Fixing screw

				Nº
Link drill I M14x50	–	–	48 Piece(s)	548516 <input type="checkbox"/>
	with fixing screw	M8x40	48 Piece(s)	548515 <input type="checkbox"/>
Link drill I M14x60	–	–	48 Piece(s)	561379 <input type="checkbox"/>
	with fixing screw	M8x40	48 Piece(s)	561698 <input type="checkbox"/>
Linkdrill I M14x80	–	–	48 Piece(s)	630606 <input type="checkbox"/>

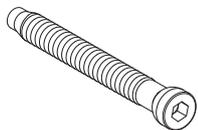
4.16.2.2.3 Linkdrill II



- [1] Linkdrill II
- [2] Fixing screw

				Nº
Link drill II M14x50	with fixing screw	M8x40	48 Piece(s)	548517 <input type="checkbox"/>
Link drill II M14x63	–	–	1 Piece(s)	833237 <input type="checkbox"/>
	with fixing screw	M8x40	48 Piece(s)	548518 <input type="checkbox"/>

4.16.2.2.4 Direct mounting (optional)



			Nº
63	Silver	48 Piece(s)	771087 <input type="checkbox"/>
68	Black	48 Piece(s)	771088 <input type="checkbox"/>
73	Green	48 Piece(s)	771089 <input type="checkbox"/>

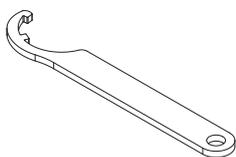
4.16.2.2.5 Screw fixing

Fixing screws for backing plates, Linkdrill I and Linkdrill II



		Nº
M8x25	48 Piece(s)	547947 
M8x40	48 Piece(s)	548512 
M8x50	48 Piece(s)	548513 

4.16.2.3 Adjustment key



		Nº
Gasket compression adjustment key for 80 ATB, 120 ATB	1 Piece(s)	825046 



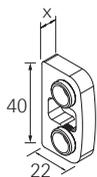
4.16.2.4 Packing plates



INFO

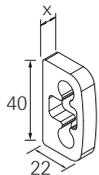
To support the frame in the case of offset profile combinations.

Packing plates for mounting with backing plates, Linkdrill I or Linkdrill II



					N ^o
7	RAL 8077	–	Dark brown	6 Piece(s)	548490 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	6 Piece(s)	568360 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548488 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005960 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858503 <input type="checkbox"/>
10	RAL 8077	–	Dark brown	6 Piece(s)	548494 <input checked="" type="checkbox"/>
	RAL 9005	R06.2	Jet black	6 Piece(s)	568361 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548492 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005961 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858504 <input type="checkbox"/>
12	RAL 9016	R07.2	Traffic white	6 Piece(s)	548496 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005962 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858530 <input type="checkbox"/>
14	RAL 9016	R07.2	Traffic white	6 Piece(s)	548500 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005963 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858531 <input type="checkbox"/>
16	SF	SF	Special colour	1 Piece(s)	2005964 <input type="checkbox"/>
18	RAL 9016	R07.2	Traffic white	6 Piece(s)	548504 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005965 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858532 <input type="checkbox"/>
19	RAL 9016	R07.2	Traffic white	6 Piece(s)	548508 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005966 <input type="checkbox"/>
	–	–	Stainless steel appearance	6 Piece(s)	858533 <input type="checkbox"/>

Packing plates for direct mounting

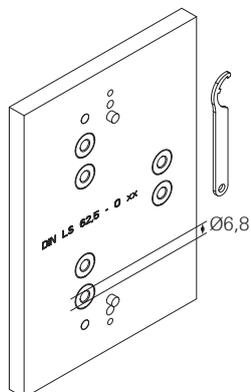


					N ^o
5.7	-	-	Stainless steel appearance	24 Piece(s)	825071 <input checked="" type="checkbox"/>
7	RAL 9006	-	White aluminium	6 Piece(s)	764321 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764322 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005967 <input type="checkbox"/>
10	RAL 9006	-	White aluminium	6 Piece(s)	764272 <input checked="" type="checkbox"/>
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764273 <input checked="" type="checkbox"/>
	SF	SF	Special colour	1 Piece(s)	2005968 <input type="checkbox"/>
	-	-	Stainless steel appearance	24 Piece(s)	828137 <input checked="" type="checkbox"/>
14	-	-	Stainless steel appearance	24 Piece(s)	828138 <input checked="" type="checkbox"/>



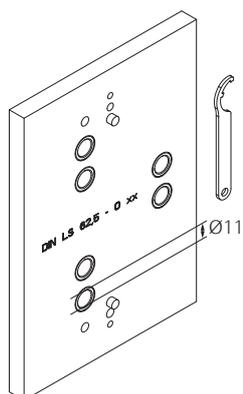
4.16.2.5 Jigs

Drilling jig for direct mounting



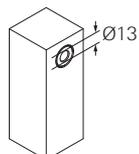
						Nº
Drilling jig direct mounting	incl. adjustment key	62.5	20.5	42	1 Piece(s)	737661

Drilling jig for backing plate and Linkdrill I



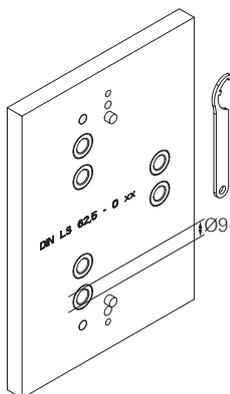
						Nº
Drilling jig for backing plate and link drill I	incl. adjustment key	62.5	20.5	42	1 Piece(s)	547218
		67.5	20.5	47	1 Piece(s)	547223
		78	20.5	57.5	1 Piece(s)	547225
		84	42	42	1 Piece(s)	547227
		94	47	47	1 Piece(s)	547235

Additional drilling jig for Linkdrill I



		Nº
Additional drilling jig for link drill I	1 Piece(s)	598478

Drilling jig for Linkdrill II



						N ^o
Drilling jig for link drill II	incl. adjustment key	62.5	20.5	42	1 Piece(s)	548751 
		67.5	20.5	47	1 Piece(s)	548753 
		78	20.5	57.5	1 Piece(s)	548755 
		84	42	42	1 Piece(s)	548757 
		94	47	47	1 Piece(s)	548765 

Step drill



			N ^o
Step drill	Ø 9 to Ø 15 mm	1 Piece(s)	544427 



INFO

The following is required for **direct screw fixing**:

Drilling jig for direct screw fixing, Ø 6.8 mm drill

The following is required for working with **backing plates**:

Drilling jig for backing plate and Linkdrill I, Ø 11 mm drill

The following is required for working with **Linkdrill I**:

Drilling jig for backing plate and Linkdrill I, additional drilling jig for Linkdrill I, Ø 11 mm drill, Ø 13 mm drill

The following is required for working with **Linkdrill II**:

Drilling jig for Linkdrill II, Ø 9 mm drill, Ø 9 to Ø 15 mm step drill



4.16.3 Drawings

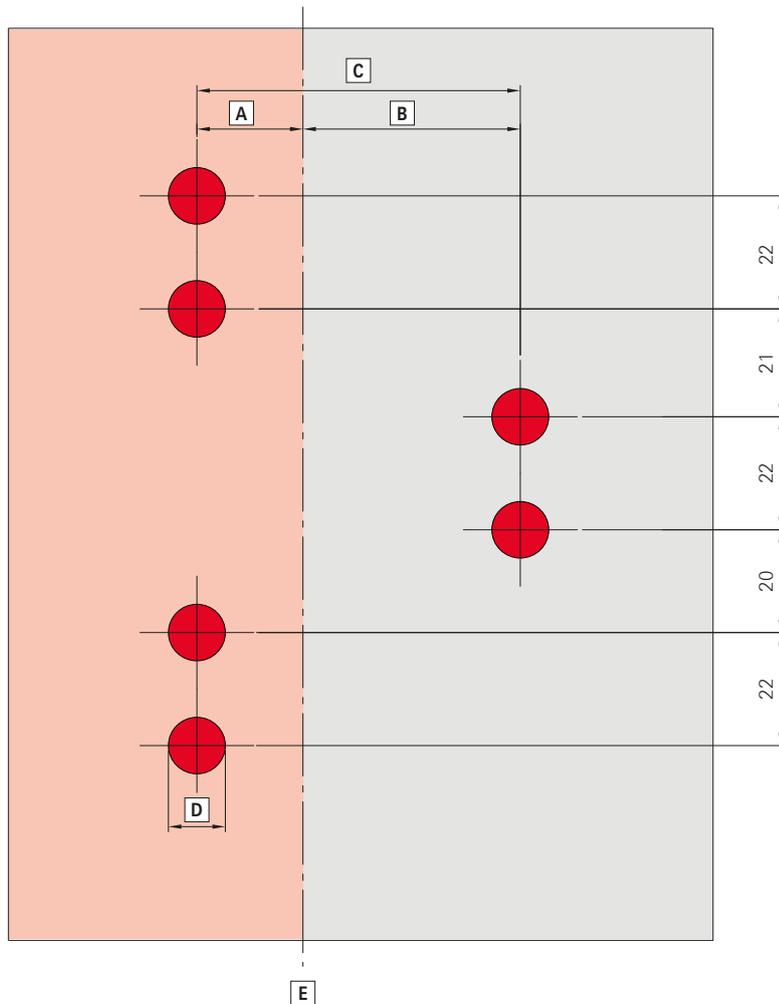
4.16.3.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



[A] Distance from centre of shadow groove or pivot point to frame fixing

[B] Distance from centre of shadow groove or pivot point to leaf fixing

[C] Flatness deviation

[D] Diameter	Version
Ø 6.8	Direct mounting
Ø 11	Backing plate
Ø 13	Linkdrill I
Ø 9	Linkdrill II

[E] Centre of shadow groove or pivot point

4.16.3.2 Installation drawings



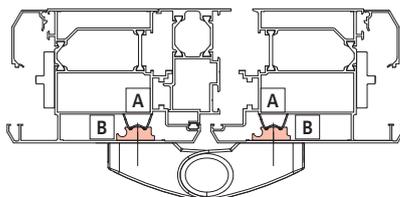
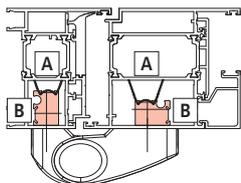
INFO

Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.



Backing plates

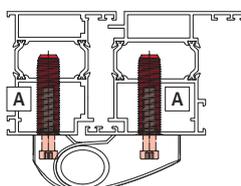


[A] Stainless-steel spring

[B] Backing plates → *from page 208*

Packing plates, optional (not sh.) → *from page 211*

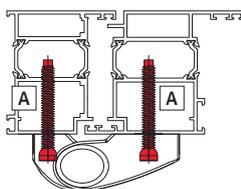
Linkdrill I



[A] Linkdrill I → *from page 209*

Packing plates, optional (not sh.)

Direct mounting

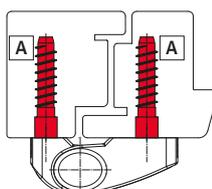


[A] Fixing screw for direct mounting → *from page 209*

Packing plates, optional (not sh.)



Linkdrill II

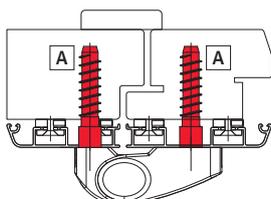


[A] Linkdrill II → *from page 209*

Packing plates, optional (not sh.)

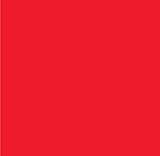


Linkdrill II



[A] Linkdrill II → *from page 209*

Packing plates, optional (not sh.)



Roto Solid C





Profile overview

See page 222

C7.140

Accessories 232

Drawings 236

5 Roto Solid C – Concealed hinges

5.1 Profile overview

For C7.140



INFO

The profile combinations shown in the overview are a selection of the possible combinations. Other profile combinations are available upon request.

For inward opening doors

Marking	Translation
RA-BD	Frame hinge
FL-BD	Sash hinge
BLT	Hinge tab casing
BFP	Mounting plate
HVM	Height adjustment module
ULP	With 1.5 mm packing plate
KOA	With 2 mm bracket adapter

Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP	HVM	ULP	KOA
Aliplast Green Star	GT415	GT1626 GT424	IV	IV	III	–	VII	–	–
Aliplast Imperial 800	IP815	IP824	IV	IV	–	–	VII	–	■
Aliplast Superial	SP815	SP824 SP1826	IV	IV	–	–	VII	–	■
Aliplast Star75	RS415	RS424 RS1626	IV	IV	III	–	VII	–	–
Aliplast Genesis	GN415	GN424 GN1624 GN1626	IV	IV	III	–	VII	–	–
	GN032 + GN455	GN424 GN1624 GN1626	IV	IV	III	44 - 55	VII	–	–
AluK Triton	P-03-124R2	P-03-224R2	IV	IV	III	–	VII	–	–
Alumil SD77	S77586	S77582 S77584	IV	IV	–	–	VII	–	–
Alumil SD95	S95016	S95028	IV	IV	–	44 - 55	VII	–	–
Aluprof MB-70	K518105X	K518355X	IV	IV	III	–	VII	–	–
Aluprof MB-86	K518730X	K518740X	IV	IV	III	–	VII	–	–
	K718730X	K718745X K718759X							
Aluprof MB-104	K519141X	K519161X K519164X K519175X	IV	IV	III	–	VII	–	–
Aluron AS 75P	P2401	P2441 P2451 P2453	IV	IV	–	–	VII	–	–
	P2405	P2441 P2451 P2453	IV	IV	–	44 - 55	VII	–	–
Blyweert Olympia	P-09-124	P-09-B224	IV	IV	III	–	VII	–	–
Feal Termo 65 VS	FT-0257	FT-0250	IV	IV	III	–	VII	–	–



Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP	HVM	ULP	KOA
Feal Termo 85 VS	FT-0513F	FT-0561F	IV	IV	–	44 - 55	VII	–	–
	FT-0551F	FT-0563F	IV	IV	–	–	VII	–	–
	FT-0575F	FT-0561F	IV	IV	–	44 - 55	VII	–	–
heroal D72	21080	19541	IV	IV	III	–	VII	–	–
		21081							
		21691							
	21252	21651	IV	IV	III	–	VII	–	–
	21623	21641	IV	IV	III	44 - 55	VII	–	–
	21624	21081	IV	IV	III	55 - 66	VII	–	–
		21645							
		21681							
	21660	21643	IV	IV	III	–	VII	–	–
		21645							
		21645 - H							
		21651							
		21655							
		21681							
	21680	21645 - H	IV	IV	III	–	VII	–	–
		21651							
		21655							
		21681							
	21780	21665	IV	IV	III	–	VII	–	–
		21755							
		21765							
21820	21645	IV	IV	III	–	VII	–	–	
	21841								
	21843								
21823	21645	IV	IV	III	44 - 55	VII	–	–	
	21841								
	21843								
21824	21645	IV	IV	III	55 - 66	VII	–	–	
	21841								
	21843								
21840	21645	IV	IV	III	–	VII	–	–	
	21841								
	21843								
21860	21643	IV	IV	III	–	VII	–	–	
	21645								
	21881								
21863	21645	IV	IV	III	44 - 55	VII	–	–	
	21851								
	21881								



Roto Solid C – Concealed hinges
Profile overview

Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP	HVM	ULP	KOA
heroal D72	21864	21645	IV	IV	III	55 - 66	VII	-	-
		21851							
		21881							
	21880	21645	IV	IV	III	-	VII	-	-
		21851							
		21881							
	22023	21641	IV	IV	III	-	VII	-	-
		21651							
		21665	IV	IV	III	44 - 55	VII	-	-
		21681							
	22024	21681	IV	IV	III	66 - 77	VII	-	-
	22533	21881	IV	IV	III	-	VII	-	-
	22543	21881	IV	IV	III	-	VII	-	-
29460	29461	IV	IV	III	-	VII	-	-	
29680	19241	IV	IV	III	-	VII	-	-	
	29681								
METRA NC65	nc15662	nc15855	IV	IV	III	-	VII	-	-
		nc15879							
	nc15667	nc15855	IV	IV	III	-	VII	-	-
METRA NC75	nc17662	nc17855	IV	IV	III	-	VII	-	-
		nc17879	IV	IV	III	-	VII	-	-
	nc17667	nc17855	IV	IV	III	-	VII	-	-
METRA NC90	nc13662	nc13855	IV	IV	III	-	VII	-	-
		nc13879							
	nc13667	nc13855	IV	IV	III	-	VII	-	-
Ponzio PE68	6762	6764	IV	IV	III	-	VII	■	-
Ponzio PE78N	7862	7864	IV	IV	III	-	VII	■	-
	7862T	78PR66B	IV	IV	III	-	VII	■	-
		78PR66B							
	7848	78PR66B	IV	IV	III	55 - 66	VII	■	-
		78PR66B							
Reynaers CS77	82014	82026	IV	IV	III	-	VII	-	-
Reynaers MasterLine 8	4080898	4080026	IV	IV	III	-	VII	-	-
Schüco ADS 70.HI	358170	395540	IV	IV	III	44 - 55	VII	-	-
		396660							
	372220-HD	395540	IV	IV	III	44 - 55	VII	-	-
		396660							
		396670							
Schüco ADS 75.SI	381910	395700	IV	IV	V	-	VII	-	-
	382150	395700	IV	IV	III	44 - 55	VII	-	-
		396870	IV	IV	III	44 - 55	VII	-	-
	381870-HD	395700	IV	IV	V	44 - 55	VII	-	-
396870									
396910		IV	IV	V	-	VII	-	-	
	476440								
Schüco ADS 90.SI	356990	439070	IV	IV	V	-	VII	-	-
	441090	439070	IV	IV	V	44 - 55	VII	-	-
Sapa Avantis 70	A7K803	A7V826	X	IV	VI	-	VII	-	-
Yawal TM 62HI	04.14067	04.24078	IV	IV	III	-	VII	-	-
Yawal TM 74HI	28.14067	28.24078	IV	IV	III	-	VII	-	-
Yawal TM 77HI	18.14067	18.24078	IV	IV	III	-	VII	-	-
	38.14067	38.24554	IV	IV	III	-	VII	-	-
		38.24555							



Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP	HVM	ULP	KOA
Yawal TM 102HI	07.14067	07.24054 07.24055	IV	IV	III	–	VII	–	–

For outward opening doors

Marking	Translation
RA-BD	Frame hinge
FL-BD	Sash hinge
BLT	Hinge tab casing
BF-Set RA	Frame mounting set
BF-Set FL	Leaf mounting set
HVM	Height adjustment module
ADP HVM	Adapter for height adjustment module

Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BF-Set RA	BF-Set FL	HVM	ADP HVM
Aliplast Genesis	GN414	GN425	IV	IV	III	III	I	III	–
		GN428							
		GN1625 GN1627							
+	GN456 GN010	GN425	IV	IV	III	VIII	I	III	–
		GN428							
		GN1625 GN1627							
+	GN456 GN011	GN425	IV	IV	III	II	I	III	–
		GN428							
		GN1625 GN1627							
Aliplast Genesis	GN456 GN012	GN425	IV	IV	III	IX	I	III	–
		GN428							
		GN1625 GN1627							
		GN456	IV	IV	III	VIII	I	III	–
+	GN030	GN1625							
		GN456	IV	IV	III	II	I	III	–
		GN1625							
+	GN031	GN456	IV	IV	III	IX	I	III	–
		GN1625							
+	GN032	GN425	IV	IV	III	IX	I	III	–
		GN1625							
AluK Triton	P-03-125R2	P-03-225R2	IV	IV	III	III	II	III	–
Aluprof MB-70	K518106X	K518115X	IV	IV	III	III	II	III	–
Aluprof MB-86	K518612X	K518742X	IV	IV	III	V	I	III	–
		K518746X							
		K518731X	IV	IV	III	III	I	III	–
K518739X	K518742X K518746X	K518742X	IV	IV	III	V	I	III	–
		K518746X							

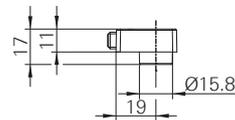
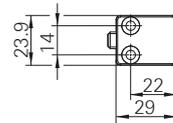
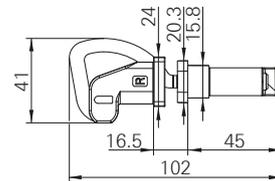
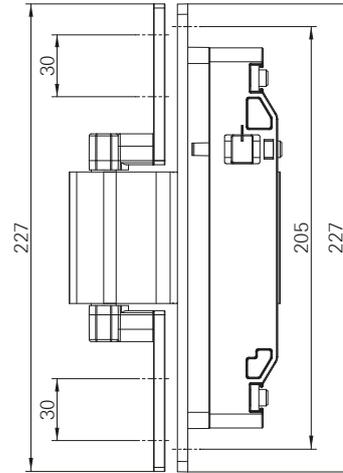
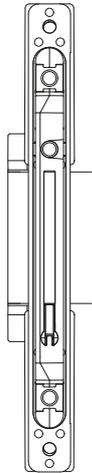


Roto Solid C – Concealed hinges
Profile overview

Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BF-Set RA	BF-Set FL	HVM	ADP HVM
heroal D72	21079	21682	IV	IV	III	IV	IV	III	–
	21079	21652	IV	IV	III	VII	VI	III	–
	21251	21654							
		21656							
	21666								
	21251	21682	IV	IV	III	VII	III	II	–
Ponzio PE78N	7832	7867	IV	IV	III	II	IV	III	–
	+	7869							
	7848	7865P							
	7832								
	+								
	7856								
Sapa Avantis 95	A9K083	A9B12	IV	IV	III	VI	III	V	–
Yawal TM 74HI	28.82050.x	28.24098.x	IV	IV	III	VI	I	III	–
	+								
	08.11052.x								
	28.82050.x	28.24098.x	IV	IV	III	II	I	III	–
	+								
	08.11065.x								
	28.82050.x	28.24098.x	IV	IV	III	IX	I	III	–
	+								
	08.11077.x								
Yawal TM 77HI	18.82021.x	18.24098.x	IV	IV	III	X	IV	III	–
	+								
	18.11052.x								
	18.82021.x	18.24098.x	IV	IV	III	IV	IV	III	–
	+								
	18.11077.x								
	18.14053.x	18.24098.x	IV	IV	III	III	IV	III	–
Yawal TM 77HI Prestige	38.82021.x	38.24568.x	IV	IV	III	X	IV	III	–
	+	38.24569.x							
	18.11052.x								
	38.82021.x	38.24568.x	IV	IV	III	V	IV	III	–
	+								
	18.11065.x	38.24569.x							
	38.82021.x	38.24568.x	IV	IV	III	IV	IV	III	–
	+	38.24569.x							
	18.11077.x								
Yawal TM 102HI	07.82021.x	07.24108.x	IV	IV	III	XII	V	V	■
	+								
	07.11072.x								
	07.14053.x								
	+								
	07.11059.x								
	07.14053.x	07.24108.x	IV	IV	III	XI	V	V	■
Yawal TM 102HI Prestige	07.82021.x	07.24068.x	IV	IV	III	XII	V	V	■
	+								
	07.11072.x								
	07.14053.x	07.24068.x	IV	IV	III	XI	V	V	■
	07.14053.x	07.24069.x	IV	IV	III	XI	V	V	■



5.2 C7.140



Product description

The Roto Solid C | C7.140 concealed hinge is suitable for aluminium entrance doors up to a sash weight of 140 kg.

An increasing number of homeowners are opting for large aluminium doors thanks to their modern look, sophisticated appearance and durability.

With Roto Solid C, all of these properties can be achieved – it is concealed in the door and ensures that even heavy doors can be moved simply and effortlessly.



Advantages at a glance

- For aluminium entrance doors up to 140 kg
- FixClick function developed in-house for mounting the leaf quickly and securely
- Height is adjusted quickly and centrally via a single adjustment point
- Suitable for burglar inhibiting door equipment as per RC 2

Adjustment range

- Laterally adjustable: ± 3 mm
- Height adjustable: $+4 / -2$ mm
- Gasket compression adjustable: ± 1 mm

Product characteristics



Design

- Concealed position accentuates door design and facade
- Neutral colours of black and silver suit all main door colours
- Robust appearance with clear, sleek outlines



Comfort

- Requires no maintenance thanks to self-lubricating bush
- Easy to clean because the mechanics are concealed
- An uninterrupted gasket level prevents heat loss



Efficiency

- FixClick function minimises the work required when mounting the leaf
- Fast and simple height adjustment using a central adjusting screw
- Fewer parts required because the left and right sides are symmetrical, resulting in reduced logistics and administrative outlay
- Sash hinge and frame hinge are packaged separately, reducing the installation time



Adjustment

- Height is adjusted centrally via a single adjustment point
- With hex key

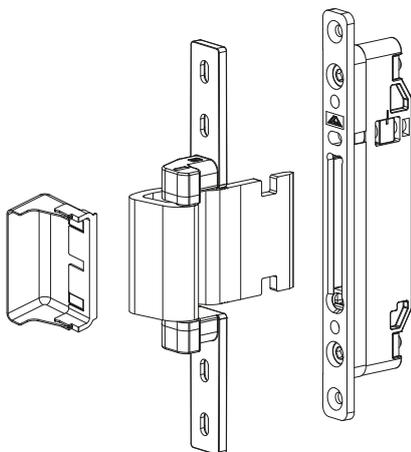


Security

- Long service life tested over 400,000 opening cycles based on DIN EN 1191
- Maximum long-term functional performance class certified in accordance with DIN EN 1935
- Corrosion resistance class 5 in accordance with DIN EN 1670
- Can be used in burglar inhibiting doors in accordance with RC 2



C7.140 set

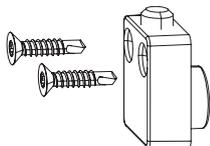


				N^o
Version IV	R01.1	Natural silver	1 Set(s)	2005170 <input type="checkbox"/>
	–	Black	1 Set(s)	823273 <input checked="" type="checkbox"/>

Contents

Figure	Quantity	Description
	1	Frame hinge
	1	Sash hinge
	1	Hinge tab casing
Not sh.	6	Screws M6 x 25
Not sh.	6	Blind rivet nuts M6

Height adjustment module for inward opening doors



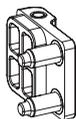
				N ^o
Version VII	R01.1	Natural silver	1 Piece(s)	2005169 <input type="checkbox"/>
	–	Black	1 Piece(s)	2002642 <input type="checkbox"/>



INFO

One height adjustment module is required per door.

Height adjustment module for outward opening doors



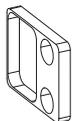
				N ^o
Version III	R01.1	Natural silver	1 Piece(s)	2006146 <input type="checkbox"/>
	–	Black	1 Piece(s)	833603 <input type="checkbox"/>
Version V	R01.1	Natural silver	1 Piece(s)	2006147 <input type="checkbox"/>
	–	Black	1 Piece(s)	837772 <input type="checkbox"/>



INFO

One height adjustment module is required per door.

Height adjustment module adapter for outward opening doors

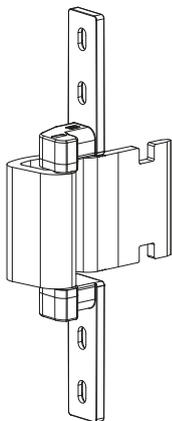


		N ^o
Adapter for height adjustment module	1 Piece(s)	861242 <input type="checkbox"/>



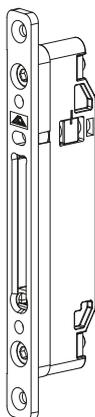
Individual components

Frame hinge



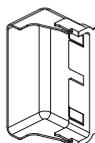
				Nº
Version IV	R01.1	Natural silver	12 Piece(s)	2005153 <input type="checkbox"/>
	-	Black	12 Piece(s)	828097 <input checked="" type="checkbox"/>
Version X	-	Black	12 Piece(s)	836735 <input type="checkbox"/>

Sash hinge



				Nº
Version IV	R01.1	Natural silver	12 Piece(s)	899556 <input type="checkbox"/>
	-	Black	12 Piece(s)	811094 <input checked="" type="checkbox"/>

Hinge tab casing



					Nº
Version III	RAL 9005	R06.2	Jet black	12 Piece(s)	811102 <input checked="" type="checkbox"/>
Version V	RAL 9005	R06.2	Jet black	12 Piece(s)	835434 <input type="checkbox"/>

5.2.1 Accessories

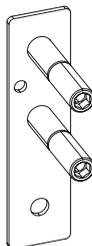
5.2.1.1 For inward opening elements

5.2.1.1.1 Sash hinge packing plate



		N ^o
1.5	12 Piece(s)	811489 <input type="checkbox"/>

5.2.1.1.2 Mounting plate



		N ^o
44 – 55	1 Piece(s)	834249 <input type="checkbox"/>
55 – 66	1 Piece(s)	834260 <input type="checkbox"/>
66 – 77	1 Piece(s)	834261 <input type="checkbox"/>

5.2.1.1.3 Bracket adapter

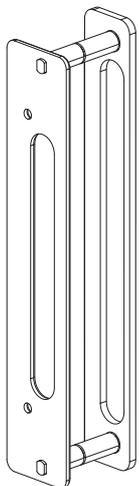


		N ^o
2	24 Piece(s)	818534 <input type="checkbox"/>



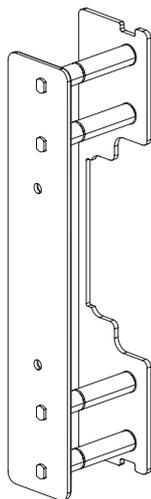
5.2.1.2 For outward opening elements

5.2.1.2.1 Attachment of sash hinge



			N ^o
	Version I	1 Piece(s)	840185 <input type="checkbox"/>
	Version II	1 Piece(s)	840186 <input type="checkbox"/>
	Version III	1 Piece(s)	840187 <input type="checkbox"/>
	Version IV	1 Piece(s)	840188 <input type="checkbox"/>
	Version V	1 Piece(s)	861241 <input type="checkbox"/>
	Version VI	1 Piece(s)	894223 <input type="checkbox"/>

5.2.1.2.2 Attachment of frame hinge



			N ^o
	Version II	1 Piece(s)	840164 <input type="checkbox"/>
	Version III	1 Piece(s)	840180 <input type="checkbox"/>
	Version IV	1 Piece(s)	840181 <input type="checkbox"/>
	Version V	1 Piece(s)	840182 <input type="checkbox"/>
	Version VI	1 Piece(s)	840183 <input type="checkbox"/>
	Version VII	1 Piece(s)	840184 <input type="checkbox"/>

		Nº
Version VIII	1 Piece(s)	858289 <input type="checkbox"/>
Version IX	1 Piece(s)	858330 <input type="checkbox"/>
Version X	1 Piece(s)	861218 <input type="checkbox"/>
Version XI	1 Piece(s)	861219 <input type="checkbox"/>
Version XII	1 Piece(s)	861240 <input type="checkbox"/>

5.2.1.2.3 Screw fixing



				Nº
Fixing screw 6.3x26	M6x25	Silver	500 Piece(s)	821604 <input checked="" type="checkbox"/>
C7.140 screw		Black	500 Piece(s)	821605 <input checked="" type="checkbox"/>

5.2.1.2.4 Blind rivet nut



		Nº
M6 blind rivet nut	500 Piece(s)	821603 <input checked="" type="checkbox"/>



5.2.1.3 Installation

Installation set

Installation set consisting of: 3 locking wedges, 3 anti-lifting devices, 1 combination tool, 1 hex key, 1 installation instructions

		N^o
Installation set	1 Set(s)	813631 

Locking wedge



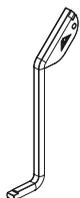
		N^o
Locking wedge	1 Piece(s)	796364 

Anti-lifting device



		N^o
Anti-jemmy device	50 Piece(s)	816922 

Combination tool



		N^o
Combination tool	1 Piece(s)	796363 

5.2.2 Drawings

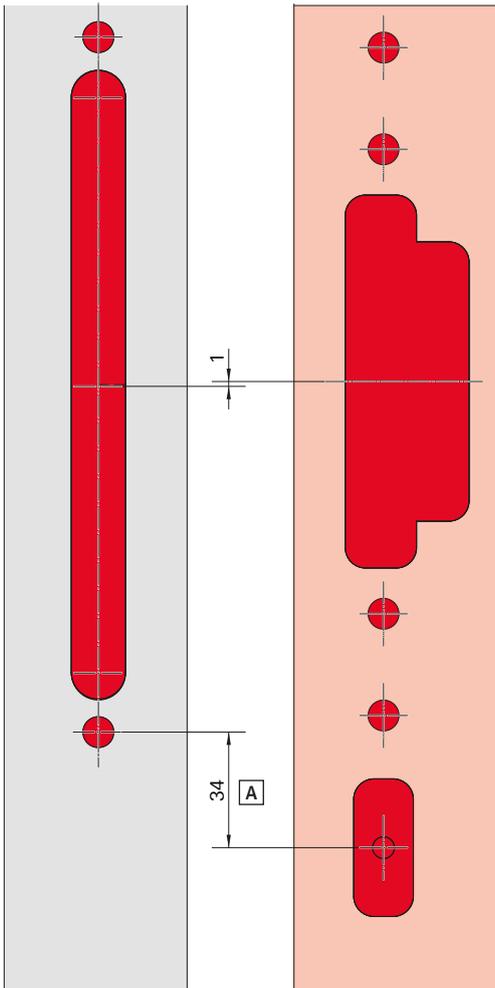
5.2.2.1 Drilling pattern



INFO

Example diagram.

Drilling patterns are profile-related (available upon request).



[A] Position of sash hinge relative to height adjustment module



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