

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 Latvija
Jūrmala (LV)





Roto Frank
Warsaw (PL)



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



OOO Roto Frank
Noginsk (RU)



Roto Frank Ltd. Sti.
Istanbul (TR)



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



Asia



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



Roto Frank Indonesia
Jakarta (ID)



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



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



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



America



Roto Frank Latina SA
Buenos Aires (ARG)



Roto Frank Brasil Ltd.
San Jose (BR)



Fermax Componentes Ltd.
Colombo (BR)



Roto Fasco Canada Inc.
Mississauga, Ontario (CA)



Roto Frank Chile
Santiago (CL)



Roto Frank of America Inc.
Chester (US)



= Sales = Production / sales

Information	10
Application diagrams	44
Roto Solid B – Butt hinges	50
Roto Solid S – Screw-on hinges	71
Roto Solid C – Concealed hinges	190



General

Product features	10
Abbreviations	11
Material	11
Colours	12
Surfaces	13
Copyright protection	13

Contact

See page	42
----------	----

Country-specific ranges

See page	14
----------	----

Storage conditions

See page	15
----------	----

Environment

See page	16
----------	----

Certifications

Conformity	17
Constancy of performance	19
SKG	29
Quality management	33
International Technology Centre (ITC)	34

Roto Con Orders

See page	35
----------	----

Roto media portal

See page	37
----------	----

Further Roto products

Roto Window	38
Roto Sliding	39
Roto Door	40
Roto Equipment	41



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
DFS	Direct fixing screw
SW	Sash width
SH	Sash height
H	Timber
H / A	Timber / aluminium
K	PVC
IMO	Installation instructions
max.	Maximum
Not sh.	Not shown

1.1.3 Material

Symbol	Meaning
Material	
	Timber
	PVC
	Aluminium
	Timber and aluminium



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

1.1.4 Colours



INFO

The surface is powder-coated unless specified otherwise.

Colour code, standard	Colour code, Roto	Colour
–	R01.1	Natural silver
–	R01.3	Titanium
–	R01.5	Silver
–	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
–	–	Stainless-steel design

Other RAL colours are available upon request.

Colour examples

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



INFO

Colours may deviate in the illustration.

1.1.5 Surfaces

Anodising method

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

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 has a highly weather-resistant quality for facades. Steel components are galvanised, chromated and sealed before being coated. The coating thickness is ~70 µm on the visible surfaces. This greatly improves the corrosion resistance. All parts are additionally pretreated in a combined degreasing and phosphating process before the coating procedure.

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.

i 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.

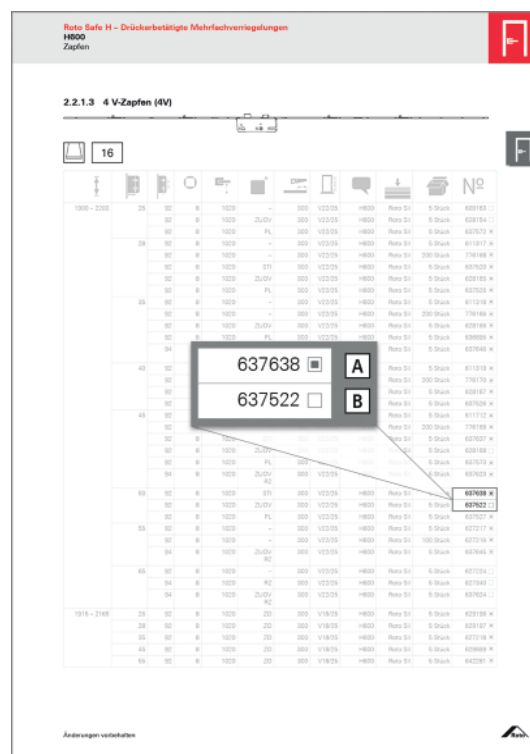
Roto uses the term "country-specific range" to refer to the combination of all available solutions that are precisely tailored to the needs of a country.

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



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

1.3 Storage conditions



Protecting components against dirt and dust

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

Protecting components against mechanical damage

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

Protecting components against direct moisture and wet

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

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

If containers nevertheless get wet...

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



1.4 Environment



Environmental compatibility of the hardware components

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

Environmental impact resulting from the hardware

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

Environmental compatibility of the packaging

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

Environmental compatibility of disposal

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

Returning packaging material

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

1.5 Certifications

1.5.1 Conformity

1.5.1.1 ift

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




Bänder / Hinges

Produktfamilien <i>product families</i> Produkt(e) <i>product(s)</i> Einsatzbereich <i>field of application</i> Hersteller <i>manufacturer</i> Produktionsstandort <i>production site</i>	Bandsysteme für Bauelemente nach EN 14351-1 <i>hinge systems for products according EN 14351-1</i> 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 <i>doors with material of PVC</i> 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
---	--

Mit diesem Zertifikat wird bescheinigt, dass die benannten Bänder den Anforderungen des ift-Zertifizierungsprogramms für Bänder QM 343 entsprechen.

Grundlagen sind durch das Prüflabor erteilte Produktfamilien der aufgeführten Bänder, eine Prüfung durch das Prüflabor nach EN 1335 : 2002 und EN 1191 unter Berücksichtigung des maximalen Belastungswertes der Bänder eine verkettete Produktionskontrolle des Herstellers und eine Fremdüberwachung der Fertigung durch die Überwachungsstelle in den benannten Standorten.

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

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

Das Unternehmen ist berechtigt, die Bänder gemäß der ift-Zeichensetzung mit dem ift-Zertifikat-Zeichen 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 fulfill 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.

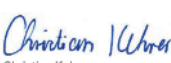
The certificate is valid for a period of 5 years. Award of the certificate is tied to regular third-party surveillance of the manufacturer.

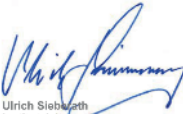
The reproduction of the certificate without any change whatsoever from the original, is permitted. Any changes to the preconditions applicable to certification shall be immediately communicated in writing to ift-Zert accompanied by the necessary evidence.

The company is authorized to affix the ift-certified-mark to the 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 Kahrner
Leiter ift Zertifizierungs- und Überwachungsstelle
Head of ift Certification and Surveillance Body


Ulrich Stieglitz
Institutsleiter
Director of Institute

Vertrag-Nr. / Contract No.: 229ift 7031575

Zertifikat-Nr. / Certificate No.: 229ift 7031575-2-2

Gültig bis / Valid: 22.05.2021

ift Rosenheim GmbH
Theodor-Greif-Str. 7-9
D-83326 Rosenheim

Kontakt
Tel +49 8031 261-0
Fax +49 8031 261-200
www.ift-rosenheim.de

Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021

ifft Body 0197
F001 Skills: BAF 18

DAKKS
Akademie
Zertifizierung
B 1133143 08

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

Zertifikat / Certificate		ift ROSENHEIM	
Zertifikatsnr. / Certificate No.: 229IFT-7031675-1-2			
Bänder Hinges			
Produkt product	ROTO SOLID C7.140		
Produktfamilien product families	Bandsysteme für Bauelemente nach EN 14351-1:2006 + A2:2016 <i>hinge systems for products according EN 14351-1</i>		
Einsatzbereich field of application	Fenster und Türen aus Holz, Kunststoff, Stahl und Aluminium <i>windows and doors with material of wood, PVC, steel and aluminium</i>		
Hersteller manufacturer	ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT 8401 Kalsdorf bei Graz		
Produktionsstandort production site	ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT 8401 Kalsdorf bei Graz		
Mit diesem Zertifikat wird bescheinigt, dass das benannte Bauprodukt den Anforderungen des zugrundeliegenden ift-Zertifizierungsprogramms in der aktuellen Fassung entspricht. Die Erstellung von Produktfamilien des aufgeführten Bauproduktes und Erstprüfung durch eine akkreditierte Prüfstelle nach EN 1595:2002 und EN 1191:2013 unter Berücksichtigung des maximalen Belastungswertes. Einführung und Aufrechterhaltung einer werkseigenen Produktionskontrolle durch den Hersteller. Erstinspektion des Werkes und der werkseigenen Produktionskontrolle durch ift-Q-Zert. Kontinuierliche Fremdüberwachung des Werkes und der werkseigenen Produktionskontrolle durch ift-Q-Zert. 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 im Werk oder in der werkseigenen Produktionskontrolle selbst nicht wesentlich verändert haben. Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Q-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen. Das Unternehmen ist berechtigt, das benannte Bauprodukt gemäß der ift-Zeichensatzung mit dem ift-Zertifizierungs-Zeichen zu kennzeichnen. Dieses Zertifikat enthält 2 Anlagen.		This certificate attests that the building product mentioned fulfils the requirements of the underlying ift-certification scheme in its current version. compilation of product families of the building product listed and initial type-testing by an accredited testing body as per EN 1595:2002 and EN 1191:2013 considering the maximum value of loading implementation and maintenance of a factory production control by the manufacturer initial inspection of the production site and the factory production control by ift-Q-Zert continuous third-party control of the production site and the factory production control by ift-Q-Zert This certificate was first issued on 02.04.2018 and will remain valid for 5 years, as long as neither the conditions and down in the technical specification listed above nor the manufacturing conditions in the production site nor the factory production control itself are modified significantly. The reproduction of the certificate without any change from the original is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to ift-Q-Zert accompanied by the necessary evidence. The company is authorized to affix the "ift-certified-mark" to the building product mentioned according to the ift-rules for use of the "ift-certified-mark". This certificate contains 2 annexes.	
ift Rosenheim 02.04.2021 Gültig bis / Valid until: Vertragsnr. / Contract No.:	Christian Kehler Leiter der ift-Zertifizierungs- und Überwachungsstelle Head of ift Certification and Surveillance 01.04.2026 229IFT 7031675	 Prof. Jörn P. Lass Institutsleiter Director of Institute 16-003802-PR01 vom / dated: 07.02.2017 17-001047-PR01 vom / dated: 02.04.2018	Grundlage(n) / Basis: ift-Zertifizierungsprogramm für Bänder ift-certification scheme for hinges (QM 343) Ausgabe / issue 2019 EN 1191 EN 12400 Klasse 6 Dauerfunktion resistance to repeated opening and closing EN ISO 9227 EN 1670 Klasse 5 Korrosionsschutz corrosion protection ift ZERTIFIZIERT CERTIFIED  www.ift-rosenheim.de

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



1.5.2 Constancy of performance

1.5.2.1 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
---	---	---	---	---	--------	---	----

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.




 Andrea Horsthemke (B.Eng.)
 Leiterin der Zertifizierungsstelle

PIV_03.11.19_19

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 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 Fluchttüren
 - *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




 Rainer Ehle, Dipl.-Ing.
 Leiter der Zertifizierungsstelle

Dieses Zertifikat hat insgesamt 2 Seiten.

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
 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 - 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 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 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.



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 - 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
---	---	---	---	---	-------	---	----

- 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
 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 - 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
----------	----------	----------	----------	----------	--------------	----------	-----------

- Eignung für die Verwendung an Fluchttüren
 - *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.

Stempel Zertifizierungsstelle

Velbert, 14.04.2014

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.



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 - 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 Fluchttüren
 - *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

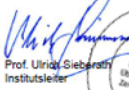
The sales employee responsible for your region can provide you with up-to-date certificates.



1.5.2.2 ift

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



Zertifikat zur Bescheinigung der Leistungsbeständigkeit		ift ROSENHEIM
Zertifikatsnummer: 0757-CPR-229IFT-7031575-1-5		
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 Türbänder Handelsname Spezifikation 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 Leistungsstufen und -klassen gemäß der Zusammenstellung in Anlage 1 Verwendungszweck zur Verwendung an Türen in Flucht- und Rettungswegen ohne Anforderungen an den Rauch- und Brandschutz in Verkehr gebracht unter dem Namen oder der Marke von ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Herstellungsbetrieb(e) ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Notifizierte Stelle EG-Referenz-Nr. 0757 Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en) EN 1935 : 2002 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. 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. Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229IFT 7031575 gebunden.    Prof. Ulrich Siebert Institutsleiter Christian Kehrer Leiter der notifizierten Produktzertifizierungsstelle		Grundlage(n): EN 1935-2002.02/AC:2003-12   www.ec.europa.eu  www.ift-rosenheim.de
ift Rosenheim GmbH Theodor-Str. 7-9 D-83026 Rosenheim Kontakt Tel. +49 8031 281 0 Fax +49 8031 295-290 www.ift-rosenheim.de Prüfung und Kalibrierung – EN ISO/IEC 17025 Inspektion – EN ISO/IEC 17020 Zertifizierung Produkte – EN ISO/IEC 17005 Zertifizierung Managementsysteme – EN ISO/IEC 17021  		

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

Zertifikat zur Bescheinigung der Leistungsbeständigkeit		ift ROSENHEIM
Zertifikatsnummer: 0757-CPR-229IFT-7031575-3-2		
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 Türbänder Handelsname Spezifikation: Roto Solid B 150R, Roto Solid B 170R gemäß der Zusammenstellung in Anlage 1 Leistungsstufen und -klassen: gemäß der Zusammenstellung in Anlage 1 Verwendungszweck: zur Verwendung an Türen in Flucht- und Rettungswegen ohne Anforderungen an den Rauch- und Brandschutz In Verkehr gebracht unter dem Namen oder der Marke von: ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Herstellungsbetrieb(e): ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Roto Frank Fenster- und Türtechnologie GmbH Eintrachtstrasse 95, D-42551 Velbert Notifizierte Stelle EG-Referenz-Nr.: 0757 Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en) EN 1935 : 2002 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. 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. Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229EG 7031575 gebunden.    Prof. Jörn P. Laas Institutsleiter ift Rosenheim 14.06.2021 Christian Kehrer Leiter der notifizierten Produktzertifizierungsstelle		Grundlage(n): EN 1935-2002-02/AC:2003-12   www.ec.europa.eu  www.ift-rosenheim.de
ift Rosenheim GmbH Theodor-Sieff Str. 7-9 D-49308 Rosenheim Kontakt: Tel. +49 89 31 261-3 Fax +49 89 31 261-290 www.ift-rosenheim.de Prüfung und Zertifizierung – EN ISO/IEC 17023 Inspektion – EN ISO/IEC 17020 Zertifizierung Produkte – EN ISO/IEC 17065 Zertifizierung Managementsysteme – EN ISO/IEC 17021 Notified Body 0757 PÜZ Service 0471 66  DakS DIN EN ISO 9001:2015 DIN EN ISO 14001:2015		

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



CEP_317 | C7.140

Zertifikat zur Bescheinigung der Leistungsbeständigkeit		ift ROSENHEIM
Zertifikatsnummer: 0757-CPR-229IFT-7031575-2-2		
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 Türbänder Handelsname Spezifikation ROTO SOLID C7.140 gemäß der Zusammenstellung in Anlage 1 Leistungsstufen und -klassen gemäß der Zusammenstellung in Anlage 1 Verwendungszweck zur Verwendung an Türen in Flucht- und Rettungswegen ohne Anforderungen an den Rauch- und Brandschutz In Verkehr gebracht unter dem Namen oder der Marke von ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Herstellungsbetrieb(e) ROTO-FRANK AUSTRIA GmbH Lapp-Finze-Str. 21, AT-8401 Kalsdorf bei Graz Notifizierte Stelle EG-Referenz-Nr. 0757 Dieses Zertifikat bestätigt, dass alle Bestimmungen in Bezug auf die Bewertung und Überprüfung der Leistungsbeständigkeit, die im Anhang ZA der Norm(en) EN 1935 : 2002 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. 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. Die Verwendung dieses Zertifikats und die Kennzeichnung der Produkte ist an den bestehenden Zertifizierungs- und Überwachungsvertrag mit dem ift Rosenheim Nr. 229EG 7031575 gebunden. Prof. Jörn P. Lass Institutsleiter ift Rosenheim 08.02.2020 <i>Christian Kehrer</i> Christian Kehrer Leiter der notifizierte Produktzertifizierungsstelle ift Rosenheim Produktzertifikat Zusammenfassung und Zusatzinformationen PÜZ EG-Referenz-Nr. 0757 Grundlage(n): EN 1935-2002, 02/AC:2003-12   www.ec.europa.eu  www.ift-rosenheim.de		
ift Rosenheim GmbH Theodor-Sieff Str. 7-9 D-49308 Rosenheim Kontakt: Tel. +49 89 31 261-3 Fax +49 89 31 261-290 www.ift-rosenheim.de Prüfung und Zertifizierung – EN ISO/IEC 17023 Inspektion – EN ISO/IEC 17020 Zertifizierung Produkte – EN ISO/IEC 17065 Zertifizierung Managementsysteme – EN ISO/IEC 17021 Not Body 0757 PÜZ-Zertifikat 0757  DakS DIN EN ISO 9001:2015 DIN EN ISO 14001:2015		

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



1.5.2.3 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)

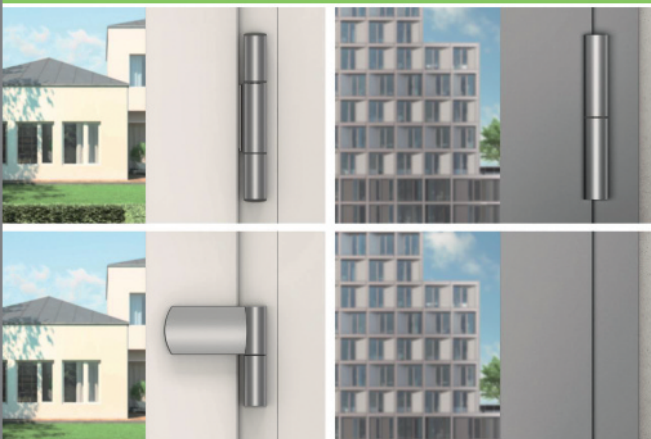
www.ibu-epd.com / <https://epd-online.com>






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





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

1.5.3 SKG

PS 27



SKG-IKOB PRODUCTCERTIFICAAT
418.651.02

Uitgegeven op: 10-10-2018

Certificaathouder
Roto Frank NV
Rue du Boquet 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



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:

opbouwpaumele

geleverd onder logo / merk:

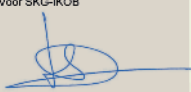
ROTO

geleverd onder typeaanduiding en artikelnummers:

PS27/SKG

voldoet aan klasse 2 STER volgens BRL 3104 en NEN 5080: 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.

SKG-IKOB Certificatie
Poppentouwweg 56
4191 NZ Geldermalsen

Postbus 202
4190 CE Geldermalsen

T 088-2440100
info@skgikob.nl
www.skgikob.nl

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

89 NN, 105 NN

SKG-IKOB PRODUCTCERTIFICAAT
418.651.08

Uitgegeven op: 10-10-2018

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-IKOB
Certificatie

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:

BKV

geleverd onder typeaanduiding en artikelnummers:

105 NN, 89/105 NN

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 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.

SKG-IKOB Certificatie
Poppoebouwing 56
4191 NZ Geldermalsen

Postbus 202
4190 CC Geldermalsen

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

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

117 NN, 117 H



SKG-IKOB PRODUCTCERTIFICAAT
418.652.01

Uitgegeven op: 18-03-2016

Certificaathouder
Roto Frank NV
Rue du Bosquet 1, Z.I. II
B-1400 Nivelles
T: +32 (0) 67 89 41 40
F: +32 (0) 67 84 14 56
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:

opbouwpaumelle

geleverd onder logo / merk:

BKV

geleverd onder typeaanduiding en artikelnummers:

117 H, 117 NN

voldeet aan Klasse 2 STER volgens BRL 3104 en NEN 5080: 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.sterrenwijzer.nl te controleren of dit document nog geldig is. Deze kwaliteitsverklaring bestaat uit 2 bladzijden.

CERTIFICAAT

SKG-IKOB Certificatie
Poppenbouwing 56
4191 NZ Geldermalsen

Postbus 202
4190 CE Geldermalsen

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

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

SKG-IKOB PRODUCTCERTIFICAAT
418.651.05

Uitgegeven op: 22-02-2013

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

BKV

geleverd onder typeaanduiding en artikelnummers:

118 Z

volgt 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 verzocht om op www.sterwijzer.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
4190 CE Geldermalsen

T 088-2440100
info@skgikob.nl
www.skgikob.nl

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

1.5.4 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.



ZERTIFIKAT



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



Deutsche
Akkreditierungsstelle
D-284 16074-01-00

DQS GmbH


Markus Bleher
Geschäftsführer

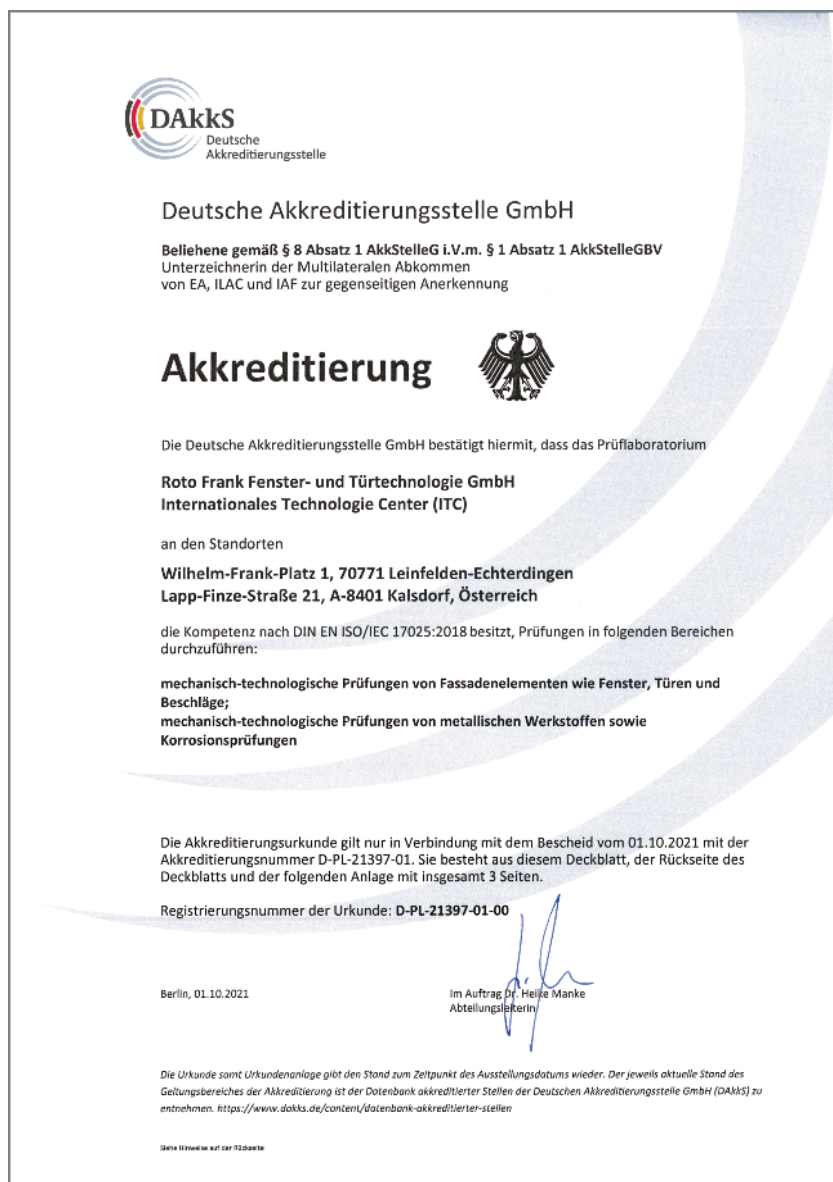
Akkreditierte Stelle: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

1 / 3



1.5.5 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.

1.6 Roto Con Orders

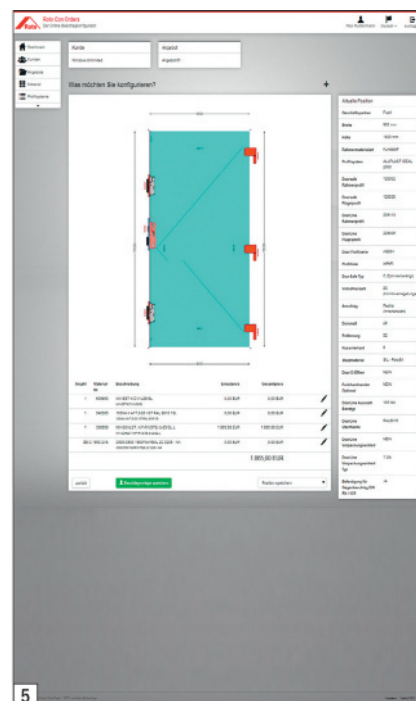
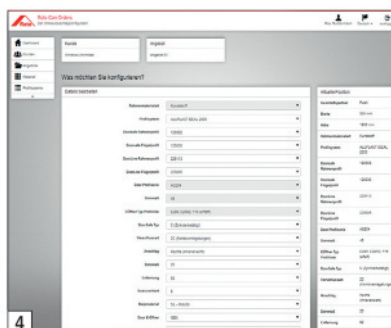
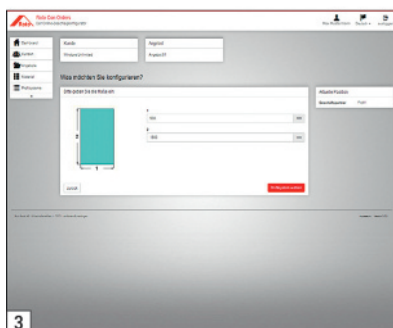
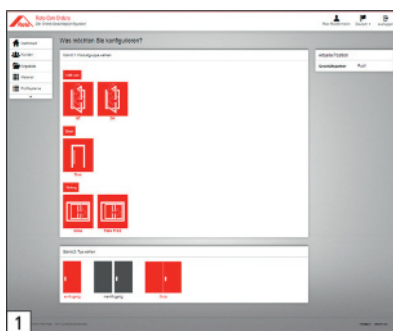


Just four steps for a finished parts list

Roto Con Orders is the perfect solution for window and door manufacturers, and for dealers. This is because with the high-performance online hardware configurator, an individual configuration of window and door hardware can be generated very easily and in an extremely short time – for all common shapes and opening types. Just a few mouse clicks and a couple of numeric entries, and the individual parts list including a technical illustration of the hardware 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

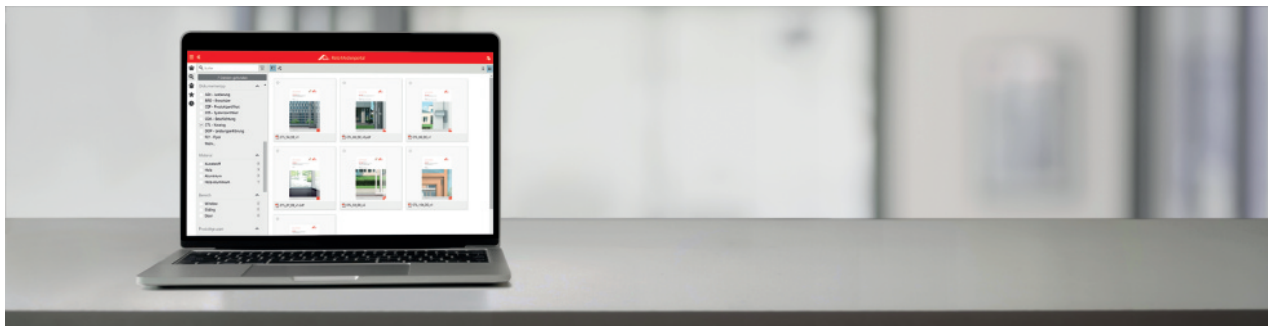
Get started straight away thanks to web-based solution

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

1.7 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



1.8 Further Roto products

1.8.1 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



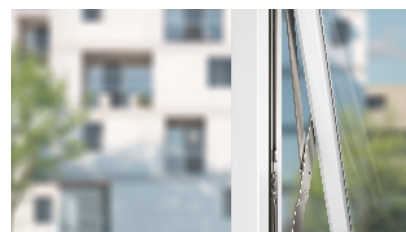
Roto FS Kempton

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

1.8.2 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



1.8.3 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

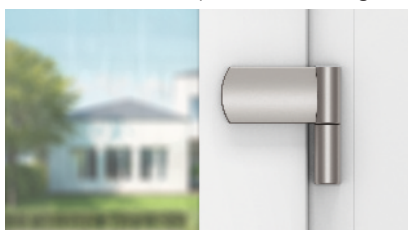
Electromechanical multipoint lockings for doors



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

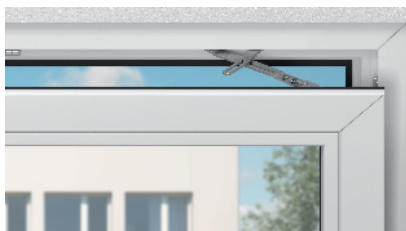


Roto Eifel

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

1.8.4 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

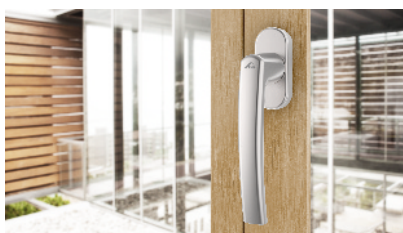
Wireless sensors integrated in hardware for home security

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



1.9 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 44

Load-bearing capacity table

See page 45

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.



2.2 Load-bearing capacity table

in accordance with DIN EN 1935:2002

3000																	-6%	-13%												
2950																	-3%	-10%	-16%											
2900																	-7%	-13%	-19%											
2850																	-3%	-10%	-16%	-22%										
2800																	-7%	-13%	-19%	-25%										
2750																	-4%	-10%	-17%	-23%	-28%									
2700																	-7%	-14%	-20%	-26%	-31%									
2650																	-4%	-11%	-17%	-23%	-29%	-34%								
2600																	-7%	-14%	-21%	-27%	-32%	-38%								
2550																	-4%	-11%	-18%	-24%	-30%	-35%	-41%							
2500																	-8%	-15%	-21%	-28%	-33%	-39%	-44%							
2450																	-4%	-12%	-19%	-25%	-31%	-37%	-42%	-47%						
2400																	-8%	-15%	-22%	-29%	-34%	-40%	-45%	-50%						
2350																	-4%	-12%	-19%	-26%	-32%	-38%	-43%	-48%	-53%					
2300																	-8%	-16%	-23%	-30%	-36%	-41%	-47%	-52%	-56%					
2250																	-4%	-13%	-20%	-27%	-33%	-39%	-45%	-50%	-55%	-59%				
2200																	-9%	-17%	-24%	-31%	-37%	-43%	-48%	-53%	-58%	-63%				
2150																	-5%	-13%	-21%	-28%	-35%	-41%	-46%	-52%	-57%	-61%	-66%			
2100																	-9%	-17%	-25%	-32%	-38%	-44%	-50%	-55%	-60%	-65%	-69%			
2050																	-5%	-14%	-22%	-29%	-36%	-42%	-48%	-54%	-59%	-63%	-68%	-72%		
2000																	-10%	-18%	-26%	-33%	-40%	-46%	-52%	-57%	-62%	-67%	-71%	-75%		
1950																	-5%	-14%	-23%	-30%	-38%	-44%	-50%	-56%	-61%	-66%	-70%	-74%	-78%	
1900																	-10%	-19%	-27%	-35%	-42%	-48%	-54%	-59%	-64%	-69%	-73%	-77%	-81%	
1850																	-5%	-15%	-24%	-32%	-39%	-46%	-52%	-58%	-63%	-68%	-72%	-77%	-81%	-84%
1800																	-11%	-20%	-29%	-36%	-43%	-50%	-56%	-62%	-67%	-71%	-76%	-80%	-84%	-88%
	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600													



= 4 hinges

= 3 hinges

= 2 hinges

Example of use to determine the maximum permitted sash weight using the load-bearing capacity table in accordance with DIN EN 1935:2002

120 ATB; S.kg_{max.} 160 kg

SH = 2100, SW = 1100, 160 kg, - 9% = max. sash weight 145.6 kg



INFO

Door closer

When using a door closer, Annex E, EN 1935:2002 must be observed.

Roto Solid B





Profile overview

See page	50
----------	----

130 R

Drawings	52
----------	----

150 R

Spare parts	54
-------------	----

Accessories	56
-------------	----

Drawings	56
----------	----

170 R

Spare parts	61
-------------	----

Accessories	62
-------------	----

Drawings	63
----------	----

3 Roto Solid B – Butt hinges

3.1 Profile overview

For 150 R, 170 R



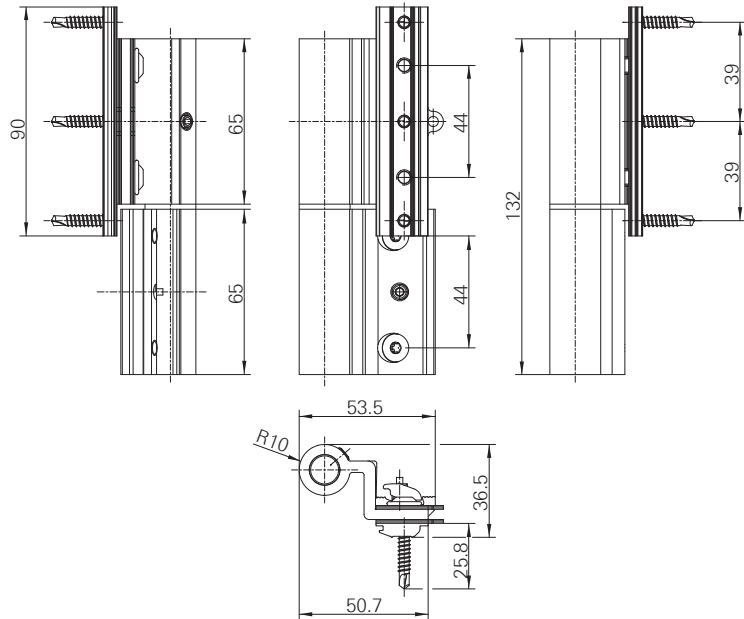
INFO

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	Version
Aluplast IDEAL 4000 AD	140 x 03	140 x 33	I
	140 x 07	140 x 29	
Aluplast IDEAL 7000 AD	170 x 02	170 x 33	
		170 x 35	
	170 x 03	170 x 33	
Aluplast IDEAL 8000 MD	180 x 05	180 x 30	
Deceuninck Elegant MD	LP1-5103	HLE484-17156	III
Deceuninck Zendow Neo AD	5001	5049	I
	5002	5512	
GEALAN S 8000 IQ AD	8003	8076	I
GEALAN S 9000 MD	6016	6025	I
KBE 76 AD	76102	76206	III
Kömmerling 76 AD			
Trocal 76 AD			
KBE 76 MD	76172	76272	
Kömmerling 76 MD			
Trocal 76 MD			
KBE 88 MD	88172	88276	III
Kömmerling 88 MD			
Trocal 88 MD			
Rehau S 969 Synego	1537105	1537235	I
Rehau S 980 Geneo	532305	532136	I
Salamander bluEvolution 82	HO8030	405040	III
	HO8031	405041	III
	5702	5782	III
Salamander bluEvolution 92	170420	371040	III
	170430	171040	III
Salamander Streamline 76	240030	341040	I
Schüco LivIng AD	9421	9423	I
Schüco LivIng MD	9612	9433	I
Veka Softline 76 AD	101.354	103.385	I
		105.400	II
Veka Softline 76 MD	101.351	103.385	I
Veka Softline 82 AD	101.293	103.345	I
	101.294		
	101.293	105.280	
Veka Softline 82 MD	101.290	103.345	I



3.2 130 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.



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

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



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



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



Adjustment

- Simple alignment of the shadow groove using packing plates



INFO

For further information on the available butt hinge versions, see → *from page 52*.

							Nº
Version II	Aluminium	RAL 8019	R04.1	Grey brown	powd-c	1 Piece(s)	816569 ☐
		RAL 9005	R06.2	Jet black	powd-c	1 Piece(s)	816568 ☐
		RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	816000 ☐
		–	R01.1	Natural silver	anod.	1 Piece(s)	816570 ☐
		–	R01.5	Silver	anod.	1 Piece(s)	834669 ☐
		R00.0	R00.0	Uncoated	–	1 Piece(s)	834113 ☐

3.2.1 Drawings

3.2.1.1 Installation drawings



INFO

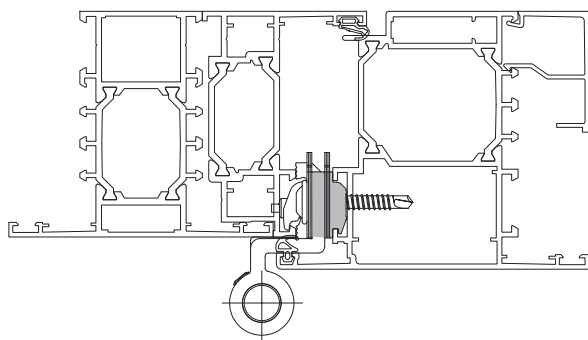
Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.



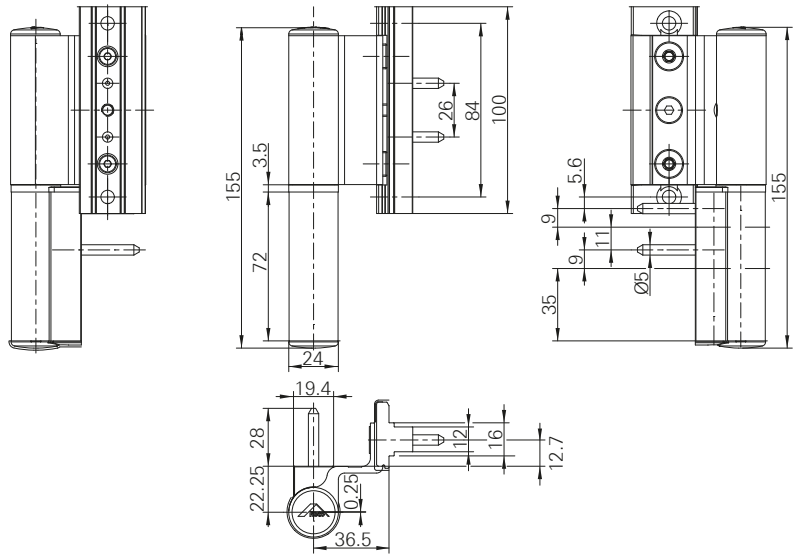
Version II

Sapa Avantis 70





3.3 150 R



Product description

The Roto Solid B | 150 R two-part butt hinge is suitable for PVC entrance 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.

Thanks to their slimline hinge design, Roto Solid B butt hinges draw attention to the design of the door – they seamlessly blend into the overall appearance or are added as a visual accent and are therefore a particular highlight.



Advantages at a glance

- For PVC entrance doors up to 120 kg
- Especially suited to doors with double-sided leaf-overlapping panels
- 3D adjustment is possible without lateral offset of roller bodies

Adjustment range

- Laterally adjustable: ± 2 mm
- Height adjustable: +4 / -3 mm
- Gasket compression adjustable: -0.5 mm

Product characteristics



Design

- Wide selection of colours
- Powder-coated or anodised surface
- Slimline butt hinge design



Comfort

- With load-bearing components made from extruded aluminium for greater stability and reliability
- 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
- Standardised drilling diameter for simple and efficient installation
- 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 roller bodies



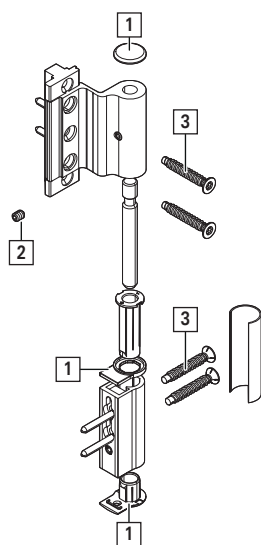
INFO

For further information on the available butt hinge versions, see → *from page 56*.

Screws per hinge: 4x 6.3 x 40

							Nº
Version I	16	PVC	RAL 1036	–	Pearl gold	1 Piece(s)	862378 ☐
			RAL 9016	R07.2	Traffic white	1 Piece(s)	862376 ☐
			–	–	Stainless steel appearance	1 Piece(s)	862377 ☐
Version II	24		RAL 8077	–	Dark brown	1 Piece(s)	838672 ☐
			RAL 9016	R07.2	Traffic white	1 Piece(s)	838670 ☐
			–	–	Stainless steel appearance	1 Piece(s)	838671 ☐
Version III	20		RAL 8077	–	Dark brown	1 Piece(s)	858214 ☐
			RAL 9016	R07.2	Traffic white	1 Piece(s)	858231 ☐
			–	–	Stainless steel appearance	1 Piece(s)	858230 ☐

3.3.1 Spare parts

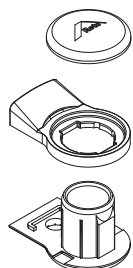


[1] Cover cap set



- [2] Axis pin fixing
- [3] Fixing screw

[1] Cover cap set



Cover cap set consisting of: 1 cover at the top, 1 cover in the centre, 1 cover at the bottom

			Nº
Cover cap set 170 R	Black	10 Piece(s)	833238
	White	10 Piece(s)	833239

[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

[3] Fixing screw

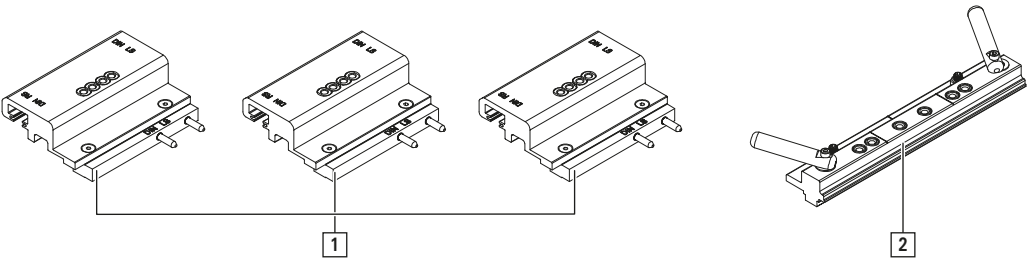


				Nº
Fixing screw	T30 hexalobular socket	6,3x40	48 Piece(s)	825048

3.3.2 Accessories

3.3.2.1 Jigs

Drilling jig set



Drilling jig set consisting of: 3 frame drilling jigs [1], 1 leaf drilling jig [2]

		Nº
Version I, III	1 Set(s)	828782 ☒
Version II	1 Set(s)	840266 ☐

3.3.3 Drawings

3.3.3.1 Installation drawings



INFO

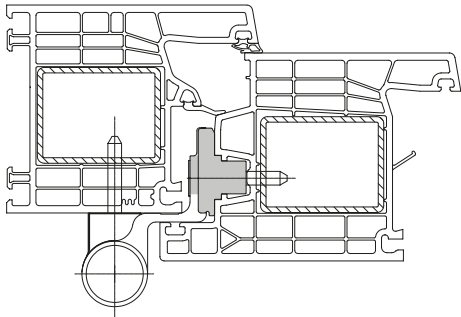
Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.



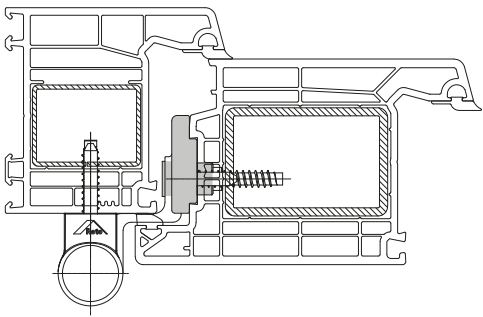
Version I

Profine 76 MD



Version II

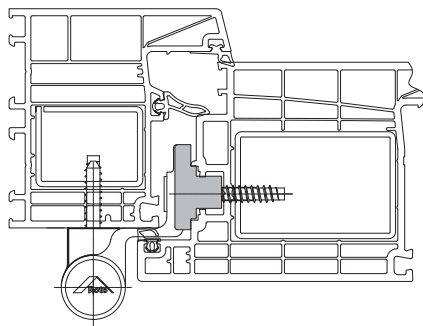
Veka Softline 76 AD





Version III

Salamander bluEvolution 82 MD



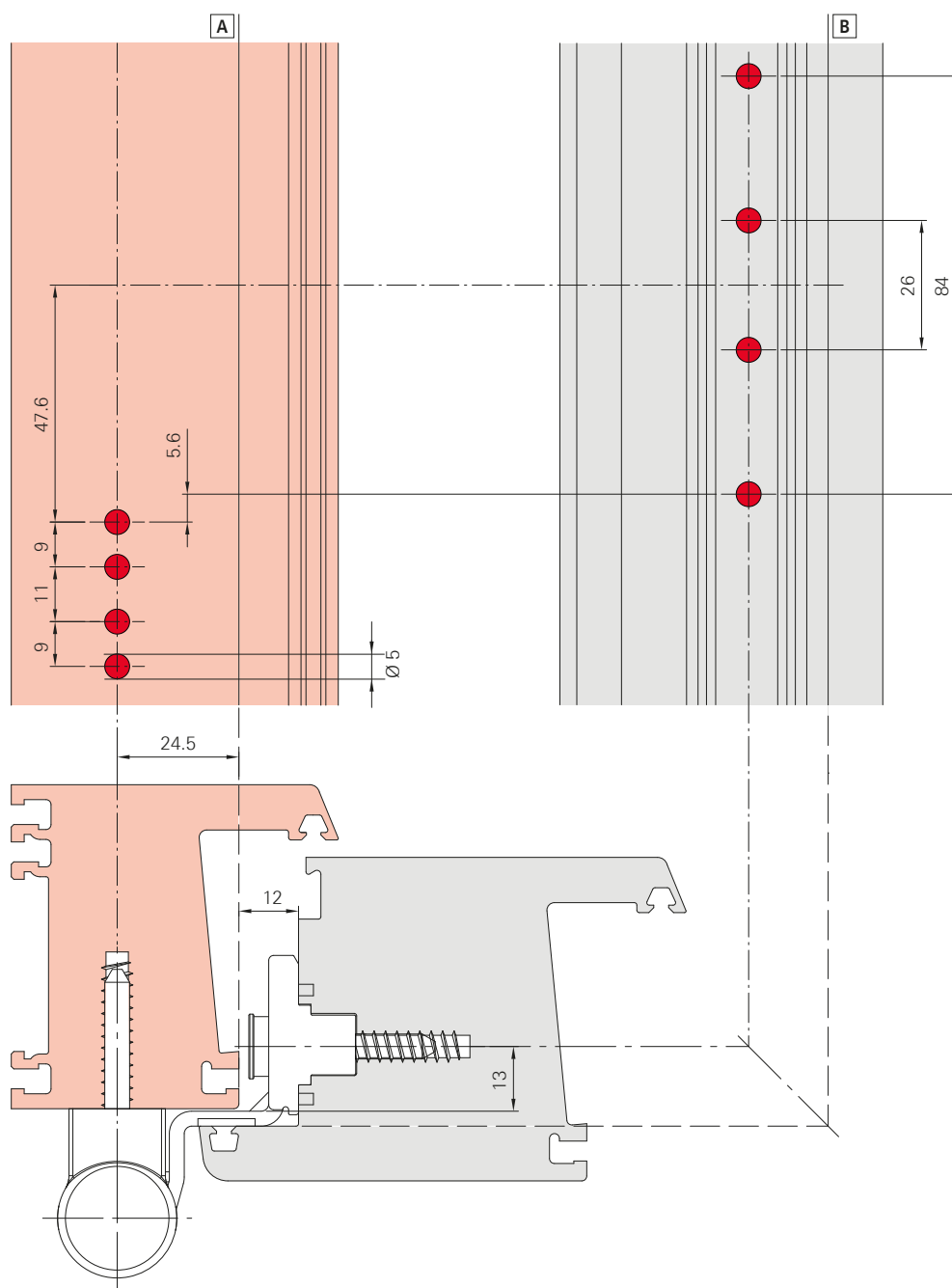
3.3.3.2 Drilling pattern



INFO

Example diagram.

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

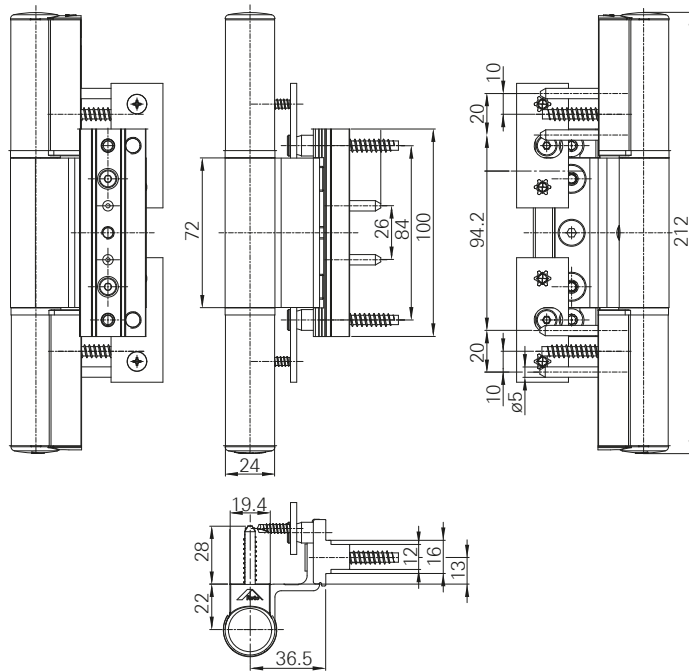


[A] Edge of frame profile body

[B] Edge of sash profile body



3.4 170 R



Product description

The Roto Solid B | 170 R three-part butt hinge is suitable for timber entrance doors up to a sash weight of 120 kg and PVC entrance doors up to a sash weight of 160 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.

Thanks to their slimline hinge design, Roto Solid B butt hinges draw attention to the design of the door – they seamlessly blend into the overall appearance or are added as a visual accent and are therefore a particular highlight.



Advantages at a glance

- For entrance doors up to 120 kg / 160 kg
- Especially suited to doors with double-sided leaf-overlapping panels
- 3D adjustment is possible without lateral offset of roller bodies

Adjustment range

- Laterally adjustable: ± 2 mm
- Height adjustable: +4 / -3 mm
- Gasket compression adjustable: +0.5 mm with packing plate

Product characteristics



Design

- Wide selection of colours
- Powder-coated or anodised surface
- Slimline butt hinge design



Comfort

- With load-bearing components made from extruded aluminium for greater stability and reliability
- High load bearing capacity thanks to rolled and welded sash hinge made from refined steel
- 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
- Standardised drilling diameter for simple and efficient installation
- 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 roller bodies



INFO

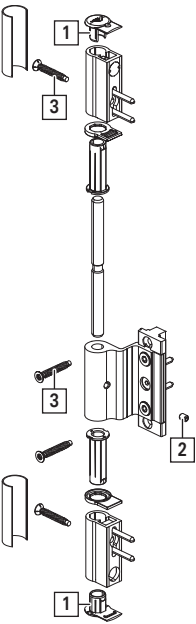
For further information on the available butt hinge versions, see → *from page 63*.

Version I, II, III (screws per hinge: 4x 6.3 x 40); version IX, X (screws per hinge: 6x 6.3 x 65)

								Nº
Version I	16 mm	PVC	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	858254 ☐
	16 mm	PVC	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	837948 ☐
	16 mm	PVC	–	–	Stainless steel appearance	powd-c	1 Piece(s)	858280 ☐
	16 mm	PVC	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	858281 ☐
Version II	24 mm	PVC	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	857664 ☐
	24 mm	PVC	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	857662 ☐
	24 mm	PVC	–	–	Stainless steel appearance	powd-c	1 Piece(s)	857663 ☐
	24 mm	PVC	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	858282 ☐
Version III	20 mm	PVC	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	858255 ☐
	20 mm	PVC	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	858256 ☐
	20 mm	PVC	–	–	Stainless steel appearance	powd-c	1 Piece(s)	858257 ☐
	20 mm	PVC	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	858283 ☐
Version IX	16 mm	Timber	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	549324 ☒
	16 mm	Timber	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	549323 ☒
	16 mm	Timber	–	R01.1	Natural silver	anod.	1 Piece(s)	549322 ☒
	16 mm	Timber	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	548746 ☒
	16 mm	Timber	–	–	Stainless steel appearance	powd-c	1 Piece(s)	836988 ☐
Version X	16 mm	Timber	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	600146 ☒
	16 mm	Timber	–	–	Stainless steel appearance	powd-c	1 Piece(s)	836989 ☐

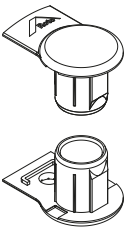


3.4.1 Spare parts



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

[1] Cover cap set



Cover cap set consisting of: 1 cover at the top, 1 cover at the bottom

			Nº
Version IX, X	Black	10 Piece(s)	809519

[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

[3] Fixing screw



				Nº
Fixing screw	T30 hexalobular socket	6,3x40	48 Piece(s)	825048

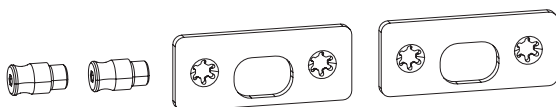
3.4.2 Accessories

3.4.2.1 Packing plates



						Nº
Version IX, X	0.5	170 mm	19	Black	1 Piece(s)	545989

3.4.2.2 Hinge side securing set



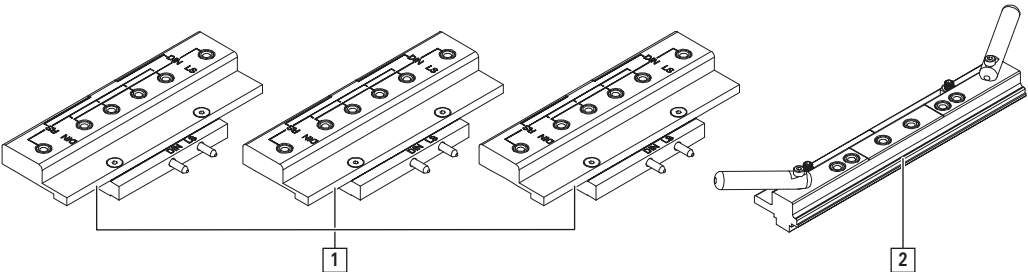
Hinge side securing set consisting of: 2 bolts, 2 counter plates

			Nº
PVC	Min. 120 kg	1 Piece(s)	891029



3.4.2.3 Jigs

Drilling jig set



Drilling jig set consisting of: 3 x frame drilling jigs [1], 1 x leaf drilling jig [2]

		Nº
Version I, III	1 Set(s)	857550 ☐
Version II	1 Set(s)	858853 ☐
Version IX, X	1 Set(s)	548995 ☒

3.4.3 Drawings

3.4.3.1 Installation drawings



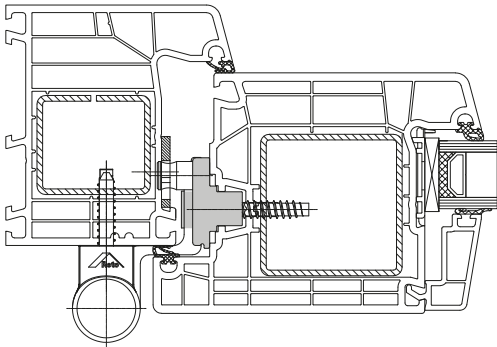
INFO

Installation examples for the aforementioned versions are shown here.
Installation examples for specific profile systems are available upon request.



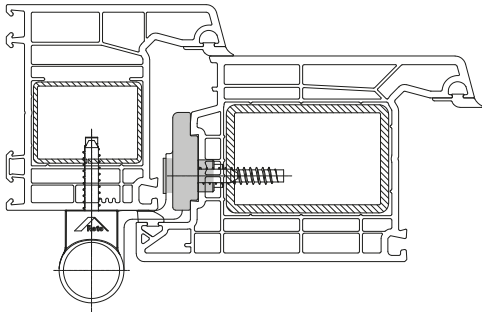
Version I

Aluplast IDEAL 7000



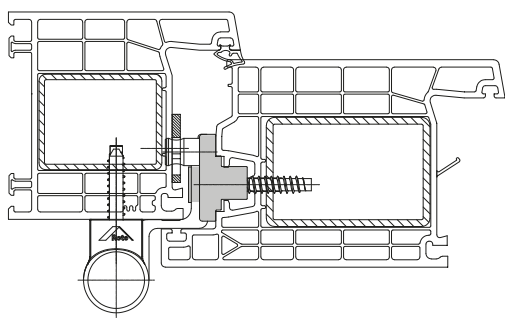
Version II

Veka Softline 76 AD



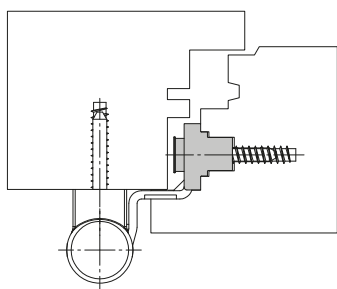
Version III

Profine 76 AD



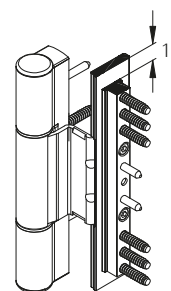
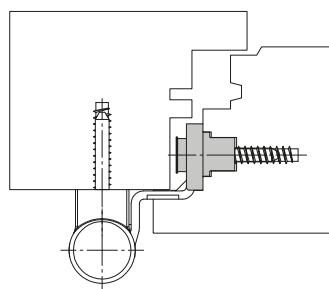
Version IX

Timber systems with continuous hardware groove



Version X

Timber systems with routed-in hardware groove



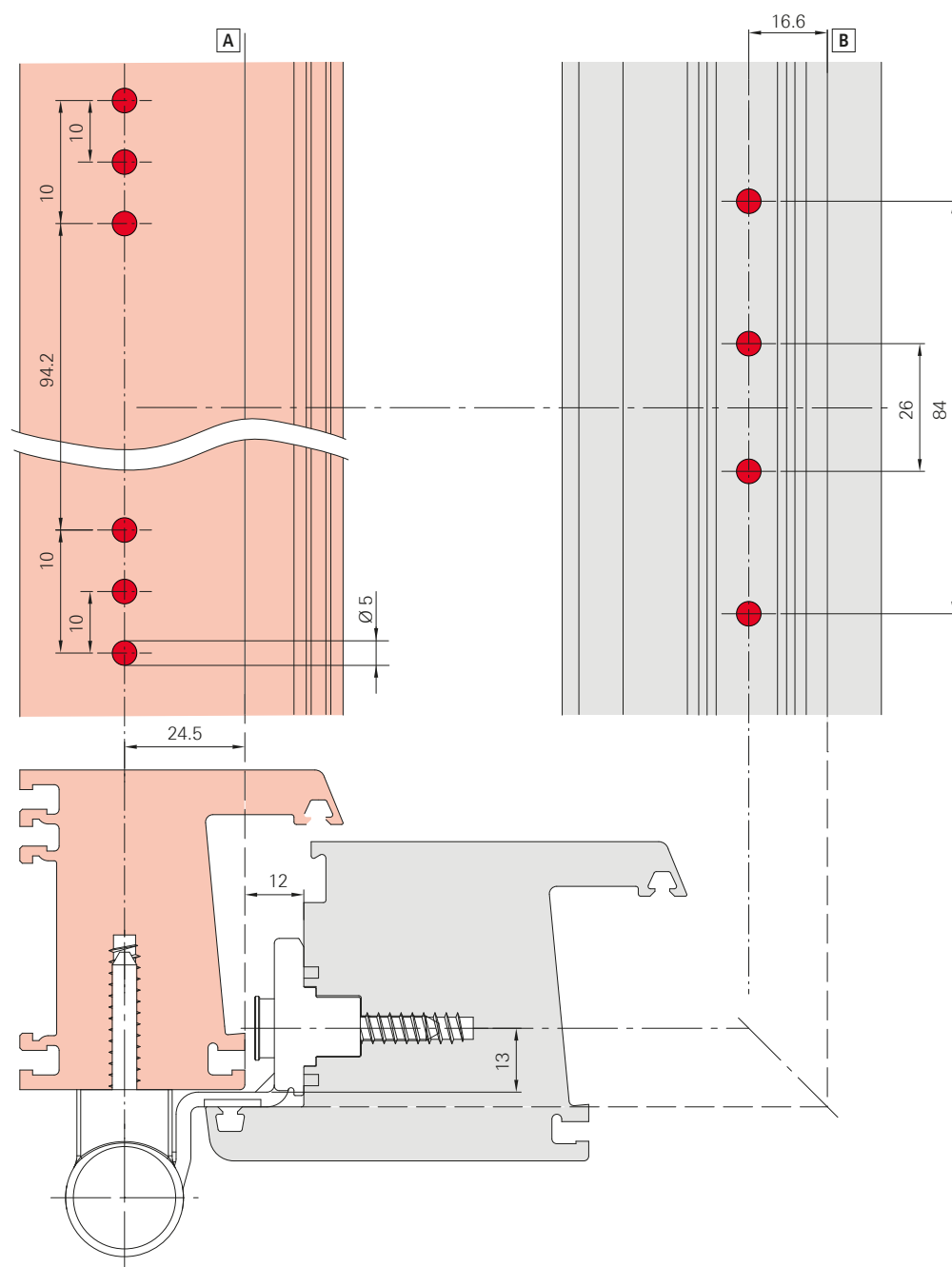
3.4.3.2 Drilling pattern



INFO

Example diagram.

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



[A] Edge of frame profile body

[B] Edge of sash profile body

Roto Solid S





Profile overview		105 NN-SR	
See page	71	Spare parts	128
		Accessories	129
		Drawings	129
PS 23			
Spare parts	78		
Accessories	80	117 NN	
Drawings	81	Spare parts	132
		Accessories	134
		Drawings	135
PS 27			
Spare parts	87		
Accessories	89	117 H	
Drawings	91	Spare parts	139
		Accessories	140
		Drawings	141
150 P			
Spare parts	95	118 Z	
Accessories	97	Spare parts	145
Drawings	98	Accessories	146
		Drawings	147
Profile overview			
See page	100	118 D	
		Spare parts	151
89 NN		Accessories	152
Spare parts	110	Drawings	153
Accessories	111		
Drawings	113	Profile overview	
		See page	155
89 NN-SR			
Spare parts	115	80 ATB	
Accessories	116	Mounting types	163
Drawings	117	Spare parts	164
		Accessories	165
		Drawings	170
105 NN			
Spare parts	123		
Accessories	124		
Drawings	125		

120 ATB

Mounting types	175
Spare parts	176
Accessories	177
Drawings	184



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 height	Overlap area	Door hinge
Aluplast IDEAL 4000	140 x 00	140 x 30	42	19	17 – 20.5	PS 27
		140 x 31				
		140 x 32				
		140 x 33				
		140 x 35				
	140 x 01	140 x 33	39	19	17 – 20.5	150 P
	140 x 02	140 x 30	31	19	17 – 20.5	PS 23
		140 x 30				
		140 x 33	39	19	17 – 20.5	150 P
		140 x 33				
		140 x 33	42	19	17 – 20.5	PS 27
		140 x 35				
	140 x 03	140 x 32	34	19	17 – 20.5	PS 23
		140 x 32				
		140 x 33	39	19	17 – 20.5	150 P
		140 x 30				
		140 x 32				
	140 x 07	140 x 30	42	19	17 – 20.5	PS 27
		140 x 31				
		140 x 32				
		140 x 33				
		140 x 35				
		140 x 38				
		140 x 38				
		140 x 38				
	140 x 08	140 x 34	42	19	17 – 20.5	PS 27
		140 x 38				
	140 x 47	140 x 33	42	19	17 – 20.5	PS 27
Aluplast IDEAL 7000	170 x 03	170 x 33	39	24	20 – 23.5	150 P
	170 x 02	170 x 30	42	24	23 – 26.5	PS 27
	170 x 03	170 x 33				
		170 x 35				
Aluplast IDEAL 8000	180 x 05	180 x 30	42	24	23 – 26.5	PS 27
		180 x 31				

Profile system	Frame number	Leaf number	Presetting	Overlap height	Overlap area	Door hinge
Deceuninck Arcade AD	LA 710	TSA 720	34	20	20 – 23.5	PS 23
			42	20	20 – 23.5	PS 27
	LA 7160	HA 7130	34	20	20 – 23.5	PS 23
		HA 7140				
		HA 7130	42	20	20 – 23.5	PS 27
		HA 7140	42	20	20 – 23.5	PS 27
Deceuninck Efforte AD	LLE 184	TSLE 284	34	21.5	20 – 23.5	PS 23
			42	21.5	20 – 23.5	PS 27
	LLE 684	TSLE 384	34	21.5	20 – 23.5	PS 23
		TSLE 484	41	21.5	20 – 23.5	150 P
		TSLE 384	42	21.5	20 – 23.5	PS 27
		TSLE 484 TSLE 584				
Deceuninck Elegant MD	5102	5115	34	17.5	17 – 20.5	PS 23
		5116				
		5151				
		5152				
		5115	42	17.5	17 – 20.5	PS 27
		5116				
		5151				
		5152				
	5103	5151	34	17.5	17 – 20.5	PS 23
			42	17.5	17 – 20.5	PS 27
Deceuninck Zendow 3000	3001	3049	39	20	17 – 20.5	150 P
		3049	39	20	20 – 23.5	PS 27
		3052				
		3069				
Deceuninck Zendow Neo	5001	5511	42	20	17 – 20.5	PS 27
	5002	5512				
GEALAN S 8000 IQ AD	8008	8078	39	16.5	14 – 17.5	PS 27
		8081				150 P
		8076	40	16.5	14 – 17.5	150 P
	8011	8076	39	16.5	14 – 17.5	PS 27
	8013	8042	39	16.5	14 – 17.5	150 P
			42	16.5	14 – 17.5	PS 27
GEALAN S 9000 IQ AD	6016	6025	42	18.5	17 – 20.5	PS 27
	6802	6025	42	18.5	17 – 20.5	PS 27
		6039 6065				
KBE 76 AD	76101	76206	42	17.5	17 – 20.5	PS 27
	76102					150 P
	76103					
	76102	76204	42	17.5	17 – 20.5	PS 27
		76205				
		76207				
	76106	76204				
		76206				



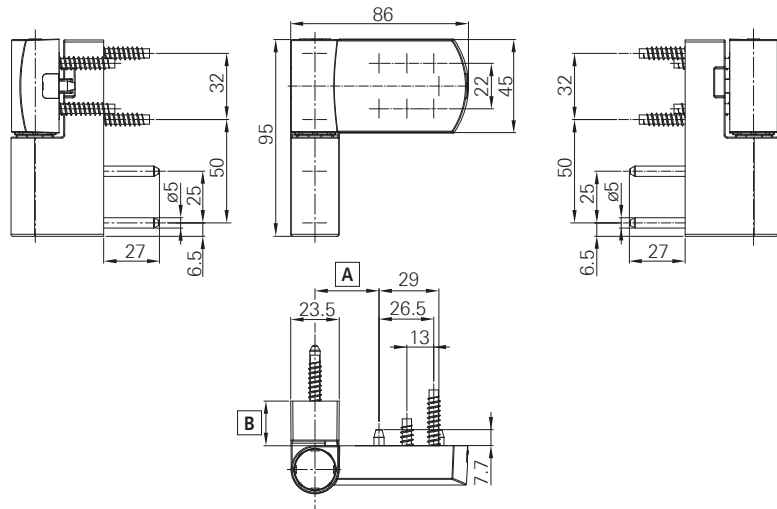
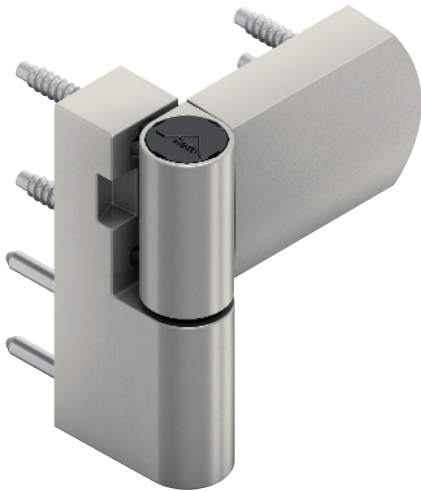
Profile system	Frame number	Leaf number	Presetting	Overlap height	Overlap area	Door hinge
KBE 76 MD	76171	76206	42	17.5	17 – 20.5	PS 27
	76172	76205				
		76206				
		76207				
		76272				
KBE 88 MD	88172	88274	41	22	20 – 23.5	PS 27
		88276				150 P
			42	22	20 – 23.5	PS 27
Rehau S 969 Synego AD	1537015	1537235	42	21	20 – 23.5	PS 27
		1537305				
		1537315				
		1539005				
		1539025				
Rehau S 969 Synego MD	1539140	1537235	42	21	20 – 23.5	PS 27
		1537295				
		1537305				
		1537315				
Rehau S 980 Geneo MD	1532146	1532015	42	25	23 – 26.5	PS 27
	1532305	1562055				
Rehau S 799 Brillant Design	550000	550170	40	19	17 – 20.5	150 P
			42	19	17 – 20.5	PS 27
	550004	550160	40	19	17 – 20.5	150 P
	550008		42	19	17 – 20.5	PS 27
	550010	550160	41	19	17 – 20.5	150 P
		550160	42	19	17 – 20.5	PS 27
	550420	550160	42	19	17 – 20.5	PS 27
Salamander bluEvolution 73 AD	HP1220	HP1540	39	16.5	14 – 17.5	150 P
		HP1550				
		HP1560				
		HP1730	39	16.5	14 – 17.5	PS 27
		HP1550				
Salamander bluEvolution 82 MD	HO9020	HP8580	42	20	20 – 23.5	PS 27
	HO9030	HP8530	34	20	20 – 23.5	PS 23
		HP8540				
		HP8550	41	20	20 – 23.5	150 P
		HP8530	42	20	20 – 23.5	PS 27
		HP8540				
Salamander bluEvolution 92 MD	170420	171040	41	20	20 – 23.5	150 P
		371040				
	170420	171040	42	20	20 – 23.5	PS 27
	170423					
Schüco Corona CT 70 AD	8564	8577	39	20	20 – 23.5	PS 27
	8597	8583				150 P



Profile system	Frame number	Leaf number	Presetting	Overlap height	Overlap area	Door hinge
Schüco LivIng 82 AD	9421	9432	34	20	17 – 20.5	PS 23
		9433				
		9452				
		9553				
	9432	9432	42	20	17 – 20.5	150 P
		9433				
		9452				
		9543				
	9432	9432	42	20	20 – 23.5	PS 27
		9433				
		9452				
		9453				
Schüco LivIng 82 NL AD	9490	9433	34	20	17 – 20.5	PS 23
			42	20	17 – 20.5	150 P
			42	20	20 – 23.5	PS 27
Veka Softline 70 AD	101.201	103.202	39	19	18.5 – 22	PS 27
	101.208	103.241	34	19	18.5 – 22	PS 23
			39	19	17 – 20.5	150 P
					18.5 – 22	PS 27
	101.214	103.242	42	19	18.5 – 22	PS 27
		105.232				
		103.242	39	19	18.5 – 22	PS 27
		103.241	42	19	18.5 – 22	PS 27
Veka Softline 70 MD	101.280	103.279	42	19	18.5 – 22	PS 27
Veka Softline 76 AD	101.351	103.385	39	19	17 – 20.5	PS 27
	101.354	105.400	39	19	17 – 20.5	PS 27 150 P
Veka Softline 76 MD	101.351	103.385	39	19	17 – 20.5	150 P
Veka Softline 82 MD	101.291	103.345	42	19	17 – 20.5	PS 27
		105.380				
		105.381				
Veka Softline 82 NL AD	101.331	103.345	42	19	17 – 20.5	PS 27
		105.380				
	101.332	103.345	39	19	17 – 20.5	PS 27
		105.380				



4.2 PS 23



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | PS 23 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
- With proven anti-lifting device to prevent unauthorised unhinging and jemmying
- Overlapping overlap height intervals for greater flexibility

Adjustment range

- Laterally adjustable:
 - Presetting 31: +10 / -5 mm
 - Presetting 34: +2 / -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 31 (screws per hinge: 2x 6.3 x 26 and 4x 6.3 x 50)

					Nº
14 – 17.5	RAL 1036	–	Pearl gold	1 Piece(s)	492517 
	RAL 8003	–	Clay brown	1 Piece(s)	492518 
	RAL 8077	–	Dark brown	1 Piece(s)	492519 
	RAL 9005	R06.2	Jet black	1 Piece(s)	782925 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492520 
	SF	SF	Special colour	1 Piece(s)	494618 
	–	R01.1	Natural silver	1 Piece(s)	894428 
	–	–	Stainless steel appearance	1 Piece(s)	817067 
17 – 20.5	RAL 1036	–	Pearl gold	1 Piece(s)	492524 
	RAL 8003	–	Clay brown	1 Piece(s)	492555 
	RAL 8022	R04.4	Black brown	1 Piece(s)	834579 
	RAL 8077	–	Dark brown	1 Piece(s)	492556 
	RAL 9001	R07.3	Cream	1 Piece(s)	492557 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492558 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	492559 
	RAL 9022	–	Pearl light grey	1 Piece(s)	492560 
	SF	SF	Special colour	1 Piece(s)	494621 
	–	R01.1	Natural silver	1 Piece(s)	894420 
	–	–	Titanium	1 Piece(s)	623572 
	–	–	Stainless steel appearance	1 Piece(s)	817044 
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	796376 
	RAL 8077	–	Dark brown	24 Piece(s)	810932 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	796377 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	810933 
	–	–	Stainless steel appearance	1 Piece(s)	817068 
20 – 23.5	RAL 1036	–	Pearl gold	1 Piece(s)	492565 
	RAL 8077	–	Dark brown	1 Piece(s)	492567 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492568 
	SF	SF	Special colour	1 Piece(s)	494623 
	–	R01.1	Natural silver	1 Piece(s)	894429 
	–	–	Stainless steel appearance	1 Piece(s)	817065 

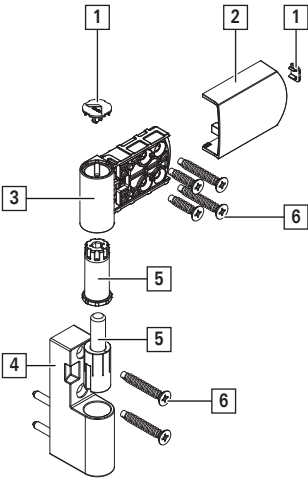


Presetting 34 (screws per hinge: 2x 6.3 x 26 and 4x 6.3 x 50)

					Nº
14 – 17.5	RAL 8077	–	Dark brown	1 Piece(s)	492521 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492522 
	SF	SF	Special colour	1 Piece(s)	494619 
	–	–	Stainless steel appearance	1 Piece(s)	836704 
17 – 20.5	RAL 8077	–	Dark brown	1 Piece(s)	492563 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492564 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	535327 
	SF	SF	Special colour	1 Piece(s)	494622 
	–	R01.1	Natural silver	1 Piece(s)	894433 
	–	–	Stainless steel appearance	1 Piece(s)	836720 
	–	–	Titanium	1 Piece(s)	619180 
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	810936 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	810937 
	–	–	Stainless steel appearance	1 Piece(s)	836721 
20 – 23.5	RAL 8077	–	Dark brown	24 Piece(s)	495269 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	495268 
	SF	SF	Special colour	1 Piece(s)	494625 
	–	–	Stainless steel appearance	1 Piece(s)	836722 
	RAL 9005	R06.2	Jet black	1 Piece(s)	824836 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	836590 
	RAL 8077	–	Dark brown	1 Piece(s)	836591 
	–	R01.1	Natural silver	1 Piece(s)	894421 
	–	R01.3	Titanium	1 Piece(s)	824835 
	–	–	Gold	1 Piece(s)	824837 



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

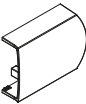
[1] Cover cap set

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



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

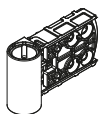
[2] Sash hinge cover



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

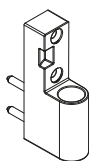


[3] Sash hinge



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

[4] Frame hinge



						Nº
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

			Nº
Pin module set	Black	24 Piece(s)	492572
	White	24 Piece(s)	492571

[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 

4.2.2 Accessories

4.2.2.1 Retaining screw

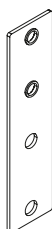
				Nº
Retaining screw	DIN 7500 M	M3x12	1000 Piece(s)	628899 

4.2.2.2 Locking pin



			Nº
Screw 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 

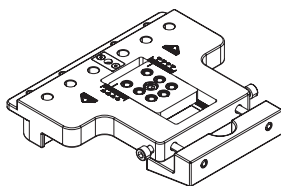


INFO

Use a maximum of 1 packing plate per hinge.

4.2.2.4 Jigs

Drilling jig



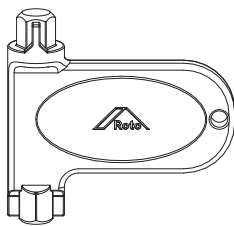
		Nº
Drilling jig	1 Piece(s)	447048

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

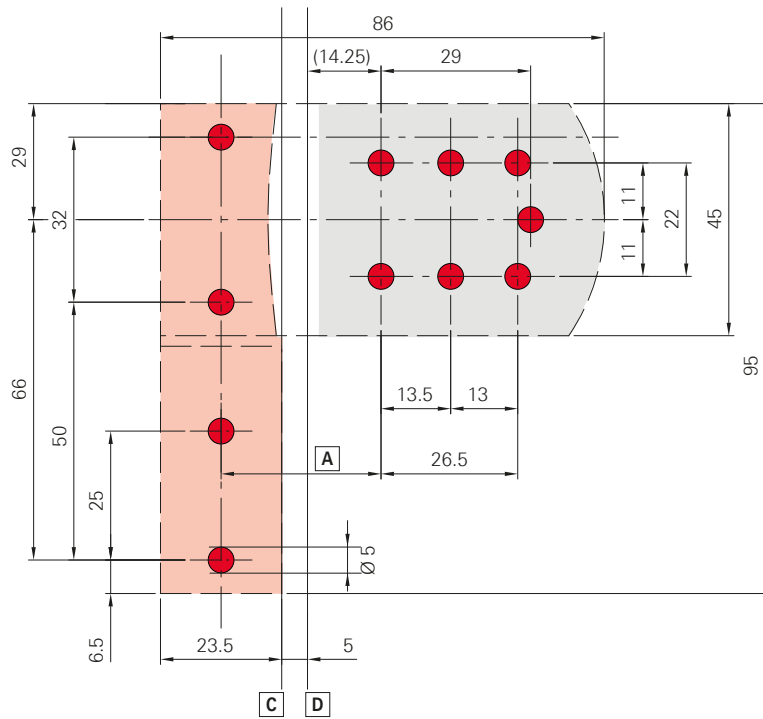
4.2.3.1 Drilling pattern



INFO

Example diagram.

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



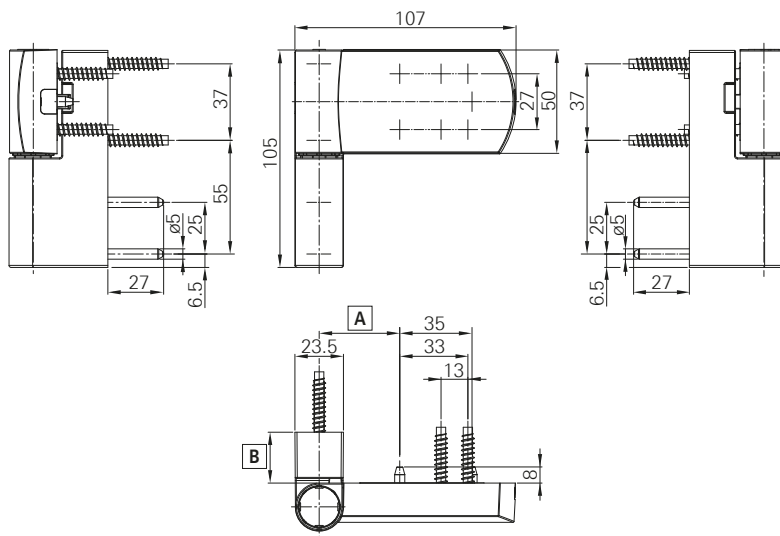
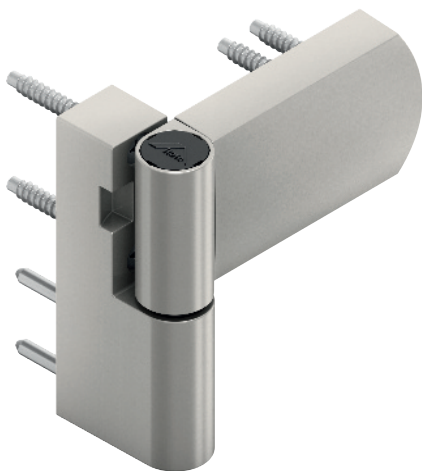
[A] Presetting

[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)

					Nº
14 – 17.5	RAL 8003	–	Clay brown	1 Piece(s)	764016 
	RAL 8004	–	Copper brown	1 Piece(s)	763994 
	RAL 8077	–	Dark brown	1 Piece(s)	492574 
	RAL 9005	R06.2	Jet black	1 Piece(s)	784711 
	RAL 9006	–	White aluminium	1 Piece(s)	764015 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492575 
	SF	SF	Special colour	1 Piece(s)	494626 
	–	R02.2	Anthracite grey	1 Piece(s)	897672 
	–	R05.5	Bronze	1 Piece(s)	896509 
	–	–	Stainless steel appearance	1 Piece(s)	836723 
17 – 20.5	–	–	Titanium	1 Piece(s)	641937 
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	896412 
	RAL 8077	–	Dark brown	1 Piece(s)	492582 
	RAL 9001	R07.3	Cream	1 Piece(s)	492583 
	RAL 9005	R06.2	Jet black	1 Piece(s)	782926 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492584 
	SF	SF	Special colour	1 Piece(s)	494628 
	–	R01.1	Natural silver	1 Piece(s)	894425 
18.5 – 22	–	–	Stainless steel appearance	1 Piece(s)	836724 
	RAL 8077	–	Dark brown	1 Piece(s)	810941 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	810940 
	–	–	Stainless steel appearance	1 Piece(s)	817071 
20 – 23.5	–	–	Stainless steel appearance	24 Piece(s)	817072 
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	896413 
	RAL 8077	–	Dark brown	1 Piece(s)	492594 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492596 
	SF	SF	Special colour	1 Piece(s)	494630 
	–	R01.1	Natural silver	1 Piece(s)	894423 
	–	R01.3	Titanium	1 Piece(s)	641884 
	–	–	Stainless steel appearance	1 Piece(s)	836725 
	–	–	Medium bronze	1 Piece(s)	641905 



					Nº
23 – 26.5	RAL 8077	–	Dark brown	1 Piece(s)	492607 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492608 ☒
	SF	SF	Special colour	1 Piece(s)	494632 ☐
	–	–	Stainless steel appearance	1 Piece(s)	836726 ☐

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

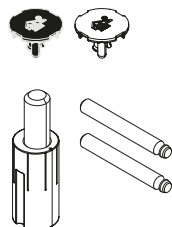
					Nº
14 – 17.5	–	R05.3	Medium bronze	1 Piece(s)	572597 ☒
	–	–	Stainless steel appearance	1 Piece(s)	817066 ☒
	RAL 1036	–	Pearl gold	1 Piece(s)	492576 ☒
	RAL 8077	–	Dark brown	1 Piece(s)	492578 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492579 ☒
	SF	SF	Special colour	1 Piece(s)	494627 ☐
	–	R01.1	Natural silver	1 Piece(s)	894422 ☐
17 – 20.5	RAL 1036	–	Pearl gold	1 Piece(s)	492586 ☒
	RAL 8003	–	Clay brown	1 Piece(s)	492587 ☒
	RAL 8077	–	Dark brown	1 Piece(s)	492588 ☒
	RAL 9005	R06.2	Jet black	1 Piece(s)	493929 ☒
	RAL 9006	–	White aluminium	1 Piece(s)	897673 ☐
	RAL 9007	–	Grey aluminium	1 Piece(s)	769110 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492589 ☒
	RAL 9016	R07.2	Traffic white	24 Piece(s)	492590 ☒
	SF	SF	Special colour	1 Piece(s)	494629 ☐
	–	R01.1	Natural silver	1 Piece(s)	894426 ☐
	–	R01.3	Titanium	1 Piece(s)	619466 ☒
	–	R05.3	Medium bronze	1 Piece(s)	572598 ☒
	–	R05.5	Bronze	1 Piece(s)	896506 ☐
	–	–	Stainless steel appearance	1 Piece(s)	817069 ☒
	–	–	Stainless steel appearance	24 Piece(s)	817070 ☒
18.5 – 22	RAL 8077	–	Dark brown	1 Piece(s)	796373 ☒
	RAL 8077	–	Dark brown	24 Piece(s)	810943 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	796374 ☒
	RAL 9016	R07.2	Traffic white	24 Piece(s)	810944 ☒
	–	–	Stainless steel appearance	1 Piece(s)	817074 ☒
	–	–	Stainless steel appearance	24 Piece(s)	817075 ☒
20 – 23.5	RAL 1036	–	Pearl gold	1 Piece(s)	492599 ☒
	RAL 8077	–	Dark brown	1 Piece(s)	492600 ☒
	RAL 9001	R07.3	Cream	1 Piece(s)	492602 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492603 ☒
	RAL 9016	R07.2	Traffic white	24 Piece(s)	492604 ☒
	SF	SF	Special colour	1 Piece(s)	494631 ☐
	–	R01.1	Natural silver	1 Piece(s)	894424 ☐
	–	R05.3	Medium bronze	1 Piece(s)	572599 ☒
	–	R05.5	Bronze	1 Piece(s)	896507 ☐
	–	–	Stainless steel appearance	1 Piece(s)	817076 ☒

					Nº
23 – 26.5	RAL 1036	–	Pearl gold	1 Piece(s)	492609 ☒
	RAL 8077	–	Dark brown	1 Piece(s)	492610 ☒
	RAL 9005	R06.2	Jet black	1 Piece(s)	796004 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	492611 ☒
	RAL 9016	R07.2	Traffic white	24 Piece(s)	620902 ☒
	SF	SF	Special colour	1 Piece(s)	494633 ☐
	–	R01.1	Natural silver	1 Piece(s)	894427 ☐
	–	R05.5	Bronze	1 Piece(s)	896508 ☐
	–	–	Stainless steel appearance	1 Piece(s)	817077 ☒

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

					Nº
17 – 20.5	RAL 9016	R07.2	Traffic white	24 Piece(s)	567190 ☐
	RAL 8077	–	Dark brown	24 Piece(s)	567319 ☐
	–	R01.1	Natural silver	1 Piece(s)	894434 ☐
20 – 23.5	RAL 8077	–	Dark brown	1 Piece(s)	806920 ☐
	RAL 8077	–	Dark brown	24 Piece(s)	806921 ☐
	RAL 9016	R07.2	Traffic white	1 Piece(s)	806923 ☐
	RAL 8016	R07.2	Traffic white	24 Piece(s)	806924 ☐
	SF	SF	Special colour	1 Piece(s)	806919 ☐

SKG retrofit set**

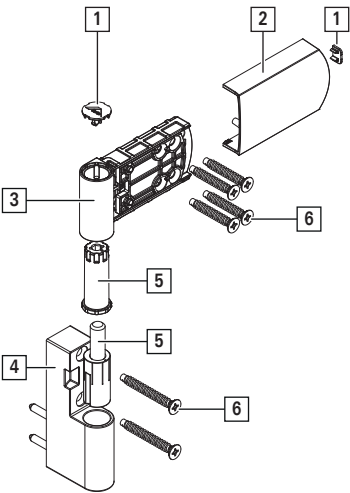


SKG** retrofit set consisting of: 1 black cover cap, 1 white cover cap, 1 tapered bush, 2 locking pins, 1 installation instructions

		Nº
SKG** retrofit set PS 27	1 Piece(s)	862477 ☐



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

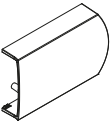
[1] Cover cap set

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



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

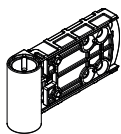
[2] Sash hinge cover



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

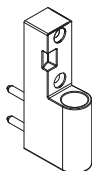


[3] Sash hinge



					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.

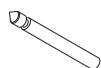
				Nº
Fixing screw	6,3x26	48 Piece(s)	450380	
	6,3x40	48 Piece(s)	450381	
	6,3x50	1000 Piece(s)	628901	
		48 Piece(s)	450382	
		1000 Piece(s)	628902	

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
Screw 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 



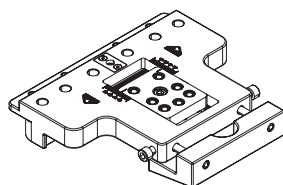
INFO

Use a maximum of 1 packing plate per hinge.



4.3.2.4 Jigs

Drilling jig



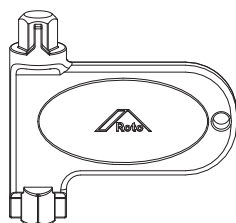
		Nº
Drilling jig	1 Piece(s)	447050 

Telescopic jig

Consisting of: 3 x drilling jigs, 1 x 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 

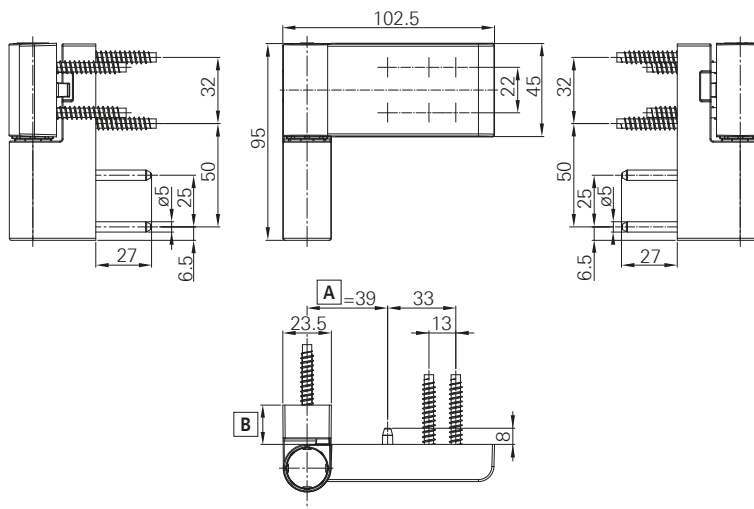
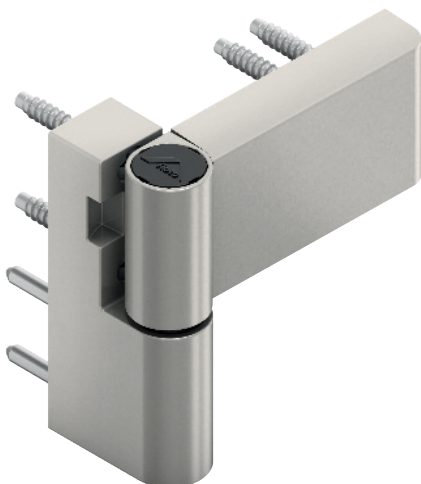
4.3.3.1 Drilling pattern

4.3.3.1 Drilling pattern



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



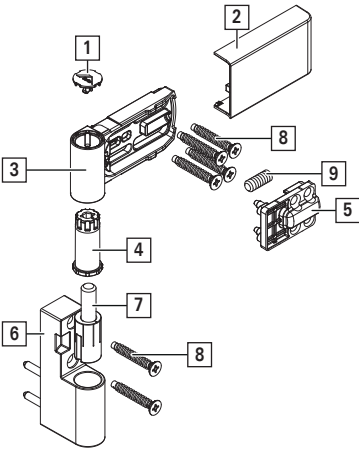
Presetting 39 (screws per hinge: 2x 6.3 x 40)

					Nº
14 – 17.5	RAL 1036	–	Pearl gold	1 Piece(s)	738103
	RAL 8003	–	Clay brown	1 Piece(s)	738115
	RAL 8017	–	Chocolate brown	1 Piece(s)	738113
	RAL 8077	–	Dark brown	1 Piece(s)	738097
	RAL 9016	R07.2	Traffic white	1 Piece(s)	738083
	RAL 9022	–	Pearl light grey	1 Piece(s)	768879
	RAL 9001	R07.3	Cream	1 Piece(s)	738108
	RAL 9005	R06.2	Jet black	1 Piece(s)	799873
	–	R01.1	Natural silver	1 Piece(s)	894437
	–	–	Stainless steel appearance	1 Piece(s)	836727
17 – 20.5	RAL 1036	–	Pearl gold	1 Piece(s)	738099
	RAL 8003	–	Clay brown	1 Piece(s)	738116
	RAL 8017	–	Chocolate brown	1 Piece(s)	738114
	RAL 8022	R04.4	Black brown	1 Piece(s)	738123
	RAL 8077	–	Dark brown	1 Piece(s)	738096
	RAL 9001	R07.3	Cream	1 Piece(s)	738109
	RAL 9005	R06.2	Jet black	1 Piece(s)	861941
	RAL 9016	R07.2	Traffic white	1 Piece(s)	738084
	–	R01.1	Natural silver	1 Piece(s)	894435
	–	–	Bronze	1 Piece(s)	771408
	–	–	Stainless steel appearance	1 Piece(s)	820773
	–	–	Titanium	1 Piece(s)	738120

					Nº
20 – 23.5	–	–	Bronze	1 Piece(s)	771409 
	RAL 1036	–	Pearl gold	1 Piece(s)	738104 
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	738121 
	RAL 8003	–	Clay brown	1 Piece(s)	738117 
	RAL 8017	–	Chocolate brown	1 Piece(s)	738102 
	RAL 8022	R04.4	Black brown	1 Piece(s)	738118 
	RAL 8077	–	Dark brown	1 Piece(s)	738098 
	RAL 9001	R07.3	Cream	1 Piece(s)	738110 
	RAL 9007	–	Grey aluminium	1 Piece(s)	738122 
	RAL 9005	R06.2	Jet black	1 Piece(s)	861942 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	738095 
	–	R01.1	Natural silver	1 Piece(s)	894436 
	–	–	Stainless steel appearance	1 Piece(s)	836728 



4.4.1 Spare parts



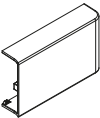
- [1] Cover cap
- [2] Sash hinge cover
- [3] Sash hinge
- [4] Sash hinge bush
- [5] Adjusting carriage
- [6] Frame hinge
- [7] Pin module
- [8] Fixing screw
- [9] Threaded pin

[1] Cover cap



			Nº
Cover cap	White	1000 Piece(s)	628900 
	Black	1000 Piece(s)	633002 

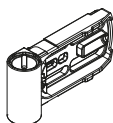
[2] Sash hinge cover



					Nº
Sash hinge cover	RAL 9016	R07.2	Traffic white	50 Piece(s)	738107 
	R00.0	R00.0	Uncoated	50 Piece(s)	738112 



[3] Sash hinge



					Nº
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



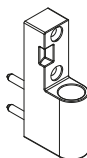
			Nº
Sash hinge bush	Black	250 Piece(s)	633001 
	White	250 Piece(s)	628897 

[5] Adjusting carriage



		Nº
Adjusting carriage	250 Piece(s)	628895 

[6] Frame hinge



						Nº
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
	White	250 Piece(s)	628896

[8] Fixing screw



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

[9] Threaded pin

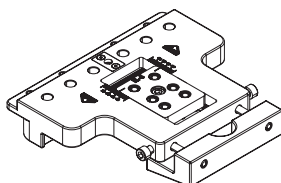


		Nº
Threaded pin	1000 Piece(s)	628898

4.4.2 Accessories

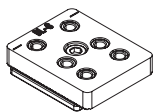
4.4.2.1 Jigs

Drilling jig



		Nº
Drilling jig	1 Piece(s)	628066

Drilling jig conversion kit



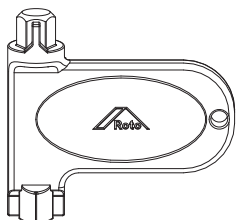
			Nº
Drilling jig conversion kit		1 Piece(s)	628878 



INFO

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

4.4.2.2 Adjustment key



			Nº
Gasket compression adjustment key		1 Piece(s)	535285 

4.4.3 Drawings

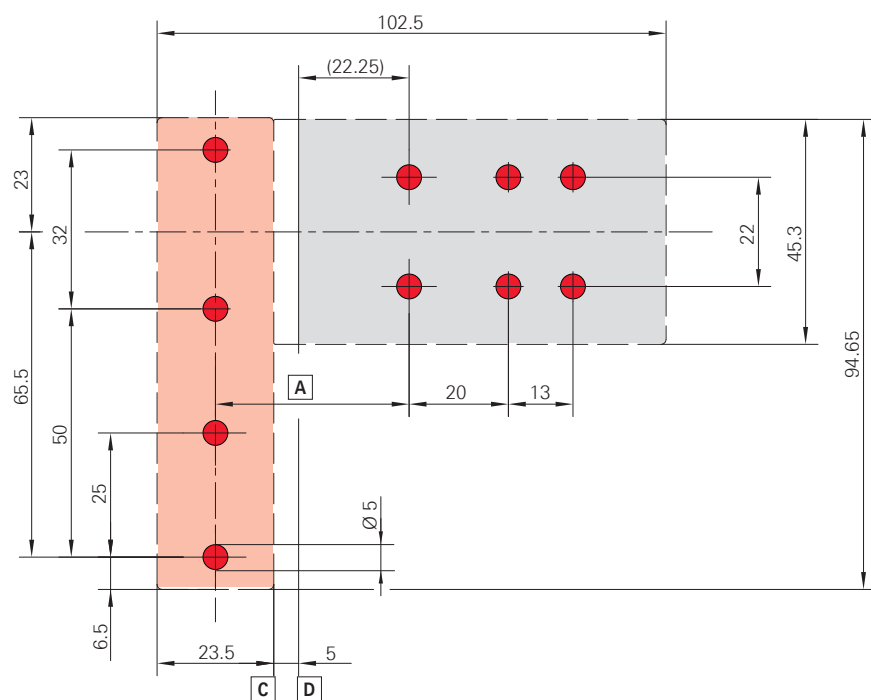
4.4.3.1 Drilling pattern



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	Recommended hinge
Aluplast IDEAL 4000	140 x 00	140 x 30	37	19 – 21.5	105 NN
		140 x 31	42	18 – 20.5	117 NN
		140 x 32			
		140 x 33			
		140 x 35			
	140 x 01	140 x 30	37	19 – 21.5	105 NN
	140 x 02	140 x 31	32	19 – 21.5	89 NN
		140 x 32			
		140 x 30	37	19 – 21.5	105 NN
		140 x 32			
		140 x 33			
		140 x 35			
	140 x 03	140 x 30	32	19 – 21.5	89 NN-SR
			34	19 – 21.5	89 NN
		140 x 33	30.5	17.5 – 20	118 Z
		140 x 38			118 D
		140 x 33	32	19 – 21.5	105 NN-SR
		140 x 28	37	19 – 21.5	105 NN
		140 x 30			
		140 x 31			
		140 x 32			
		140 x 33			
		140 x 35			
		140 x 38			
		140 x 30	42	18 – 20.5	117 NN
		140 x 31			
		140 x 32			
		140 x 33			
		140 x 35			
	140 x 07	140 x 28	37	19 – 21.5	105 NN
		140 x 30			
		140 x 31			
		140 x 32			
		140 x 33			
		140 x 30	37	19 – 21.5	105 NN-SR
		140 x 30	42	18 – 20.5	117 NN
		140 x 31			
		140 x 32			
		140 x 33			
		140 x 35			
	140 x 08	140 x 34	37	19 – 21.5	105 NN
		140 x 38	42	18 – 20.5	117 NN
	140 x 10	140 x 30	29	19 – 21.5	89 NN-SR
		140 x 33			
		140 x 33	37	19 – 21.5	105 NN
	140 x 20	140 x 35	37	19 – 21.5	105 NN-SR
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



Profile system	Frame number	Leaf number	Presetting	Overlap area	Recommended 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
			42	16.5 – 19	117 NN
	5103	5151	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
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	3048	37	19 – 21.5	105 NN
	3018				
	3019 – 21.5				
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	37	19 – 21.5	105 NN-SR
		5048			



Profile system	Frame number	Leaf number	Presetting	Overlap area	Recommended 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
		8076			
		8081			
	8012	8042	30.5	15 – 17.5	118 Z 118 D
		8076			
			37	16.5 – 19	105 NN
	8016	8042	45	-6.25 – -7.75	117 H
	8018	8042	42	15.5 – 18	117 NN
		8076			
		8078	45	-6.25 – -7.75	117 H
	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	8042	37	16.5 – 19	105 NN
	8043				



Profile system	Frame number	Leaf number	Presetting	Overlap area	Recommended 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
		6025 6027	37	17.5 – 20	105 NN
	6027	6806	45	-7.75 – -9.25	117 H
	6802	6025	37	17.5 – 20	105 NN
		6065			
		6025	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				
	6842	6806			
	6844	6067			
KBE 76 AD	76101	76204	37	17.5 – 20	105 NN-SR
		76206			
		76207			
		76204	37	17.5 – 20	105 NN
	76101	76206	30.5	17.5 – 20	118 Z
	76102	76207			118 D
	76103	76204	32	17.5 – 20	89 NN
		76205			
		76206	37	17.5 – 20	105 NN
		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
		76206	42	16.5 – 19	117 NN
KBE 76 MD	76171	76206	37	17.5 – 20	105 NN
		76272			105 NN-SR
		76272	42	16.5 – 19	117 NN
	76172	76272	37	17.5 – 20	105 NN
KBE 88 MD	88172	88274	30.5	20 – 22.5	118 Z
		88275			118 D
		88276			
		88277			
		88274	32	21.5 – 24	89 NN
		88276	37	21.5 – 24	105 NN
		88274	42	21 – 23.5	117 NN
		88275			
		88276			
		88277			



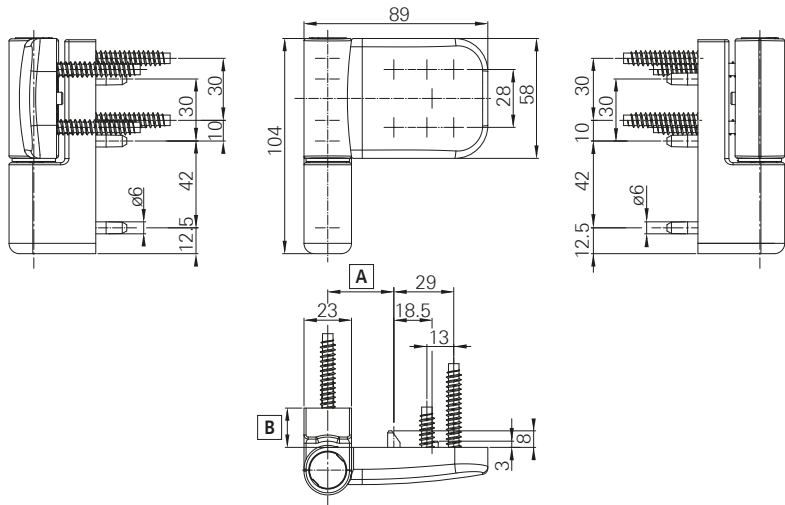
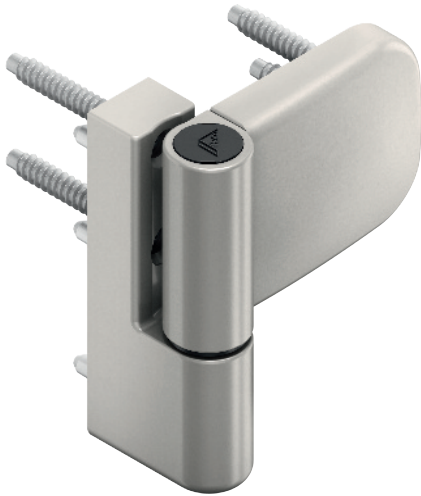
Profile system	Frame number	Leaf number	Presetting	Overlap area	Recommended hinge			
Rehau S 969 Synego	1537015	1537315	30.5	20 – 22.5	118 Z 118 D			
		1537235 1537315	32	19 – 21.5	89 NN			
		1537235	37	19 – 21.5	105 NN			
		1537295 1537305 1537315	42	21 – 23.5	117 NN			
		1539005	1537295	37 42	19 – 21.5 19 – 21.5	105 NN 117 NN		
		1539025	1537235 1537295 1537235 1537295 1537295	32 37 42	19 – 21.5 19 – 21.5 19 – 21.5	89 NN 105 NN 117 NN		
			1539035	1537295	37	19 – 21.5	105 NN	
	Rehau S 980 Synego MD		532305	532165 532175	42	24 – 26.5	117 NN	
	Rehau S 799 Brillant Design	550000	550390 550400 550510 550400 550510 550160 550170	32 32 37	19 – 21.5 19 – 21.5 19 – 21.5	89 NN 105 NN 105 NN		
			550010	550160 550170 550160	30.5 37	17.5 – 20 19 – 21.5	118 Z 118 D 105 NN	
				550420	550160 550170	37 42	19 – 21.5 18 – 20.5	105 NN 117 NN
					550570	550160	32	17.5 – 20
			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 HP1550 HP1560	37 42	16.5 – 19 16.5 – 19	105 NN 117 NN		
			Rehau S 799 Brillant Design	550730	550160	37	19 – 21.5	105 NN
			Salamander bluEvolution 82 AD	HO8020	HP8550	37	19 – 21.5	105 NN
				HO8030	HP8540 HP8550 HP8560 HP8550 HP8550	30.5 37 42	19 – 21.5 19 – 21.5 19 – 21.5	118 Z 118 D 105 NN 117 NN

Profile system	Frame number	Leaf number	Presetting	Overlap area	Recommended hinge
Salamander bluEvolution 82 MD	HO9020	HP8540	30.5	19 – 21.5	118 Z
		HP8550			118 D
		HP8560			
		HP8550	37	19 – 21.5	105 NN
	HO9030	HP8550	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
		371040			
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
	8597	8583			
		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			
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				
Schüco Living 82 NL AD	9490	9433	32	19 – 21.5	89 NN
			37	19 – 21.5	105 NN



Profile system	Frame number	Leaf number	Presetting	Overlap area	Recommended hinge
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			118 D
		103.232	32	19 – 21.5	89 NN
		103.241	37	19 – 21.5	105 NN
		103.242			
		105.232			
		105.233			
	101.219	105.232	37	19 – 21.5	105 NN-SR
	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
					118 D
			37	17 – 20.5	105 NN
Veka Softline 82 AD	101.293	103.345	32	19 – 21.5	89 NN
			30.5	17.5 – 20	118 Z
					118 D
			32	19 – 21.5	105 NN
	101.294	103.345	32	19 – 21.5	89 NN
		103.345	32	19 – 21.5	105 NN
		103.380			
	102.213	105.380	30.5	17.5 – 20	118 Z
					118 D
			32	19 – 21.5	105 NN
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			
Veka Softline 82 NL AD	101.331	103.341	32	17.5 – 20	89 NN
	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

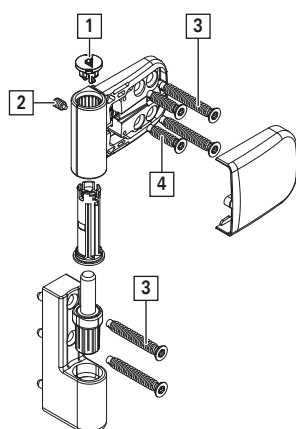


Presetting 32 (screws per hinge: 2x 7.3 x 30 and 4x 7.3 x 50)

					Nº
14 – 16.5	RAL 8077	–	Dark brown	1 Piece(s)	544684
	RAL 9016	R07.2	Traffic white	1 Piece(s)	551171
	SF	SF	Special colour	1 Piece(s)	622490
	–	–	Stainless steel appearance	1 Piece(s)	836799
15.5 – 18	RAL 8077	–	Dark brown	1 Piece(s)	547614
	RAL 9016	R07.2	Traffic white	1 Piece(s)	547612
	RAL 9016	R07.2	Traffic white	24 Piece(s)	547615
	SF	SF	Special colour	1 Piece(s)	622491
	–	–	Stainless steel appearance	1 Piece(s)	836800
16.5 – 19	RAL 1036	–	Pearl gold	1 Piece(s)	545407
	RAL 8003	–	Clay brown	1 Piece(s)	890941
	RAL 8003	–	Clay brown	24 Piece(s)	545899
	RAL 8017	–	Chocolate brown	1 Piece(s)	890874
	RAL 8019	R04.1	Grey brown	1 Piece(s)	545187
	RAL 8022	R04.4	Black brown	1 Piece(s)	890940
	RAL 8077	–	Dark brown	1 Piece(s)	544612
	RAL 8077	–	Dark brown	24 Piece(s)	544711
	RAL 9006	–	White aluminium	1 Piece(s)	545988
	RAL 9006	–	White aluminium	24 Piece(s)	546080
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544611
	RAL 9016	R07.2	Traffic white	24 Piece(s)	544710
	SF	SF	Special colour	1 Piece(s)	622493
	–	–	Stainless steel appearance	1 Piece(s)	836801
	RAL 8077	–	Dark brown	1 Piece(s)	546367
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546366
17.5 – 20	SF	SF	Special colour	1 Piece(s)	622494
	–	–	Stainless steel appearance	1 Piece(s)	836802

					Nº
19 – 21.5	RAL 1015	R07.5	Light ivory	1 Piece(s)	546426 
	RAL 1036	–	Pearl gold	1 Piece(s)	545010 
	RAL 8003	–	Clay brown	1 Piece(s)	546034 
	RAL 8019	R04.1	Grey brown	1 Piece(s)	545189 
	RAL 8077	–	Dark brown	1 Piece(s)	544686 
	RAL 8077	–	Dark brown	24 Piece(s)	546028 
	RAL 9006	–	White aluminium	1 Piece(s)	545630 
	RAL 9006	–	White aluminium	24 Piece(s)	546030 
	RAL 9007	–	Grey aluminium	1 Piece(s)	545771 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544685 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	546026 
	–	R01.1	Natural silver	1 Piece(s)	895091 
	SF	SF	Special colour	1 Piece(s)	622495 
	SF	SF	Special colour	24 Piece(s)	638691 
	–	–	Stainless steel appearance	1 Piece(s)	836803 
21.5 – 24	RAL 8077	–	Dark brown	1 Piece(s)	544675 
	RAL 9006	–	White aluminium	1 Piece(s)	546928 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544674 
	SF	SF	Special colour	1 Piece(s)	622496 
	–	–	Stainless steel appearance	1 Piece(s)	836804 
23 – 25.5	RAL 8077	–	Dark brown	1 Piece(s)	545132 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546930 
	SF	SF	Special colour	1 Piece(s)	622497 
	–	–	Stainless steel appearance	1 Piece(s)	836805 

4.6.1 Spare parts



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



[4] Fixing screw, short

[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, long



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

[4] Fixing screw, short



				Nº
Fixing screw	T30 hexalobular socket	7,3x30	48 Piece(s)	825063

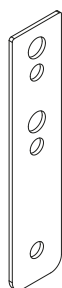
4.6.2 Accessories

4.6.2.1 Locking pin



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

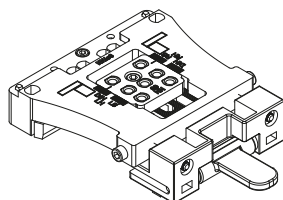
4.6.2.2 Packing plates



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

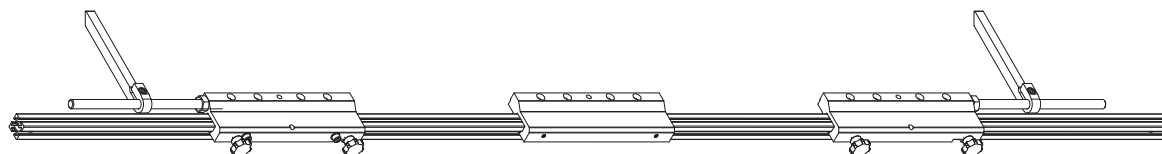
4.6.2.3 Jigs

Drilling jig



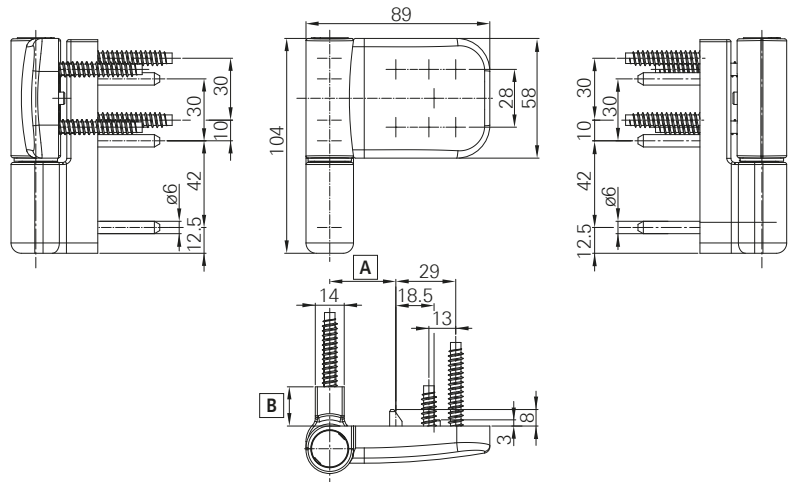
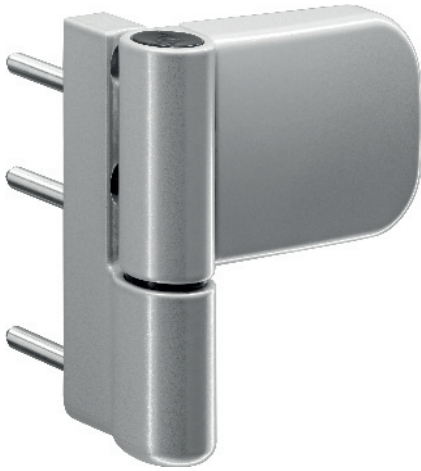
			Nº
Drilling jig	32 mm	1 Piece(s)	544283 

Telescopic holder for drilling jigs



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

4.7 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

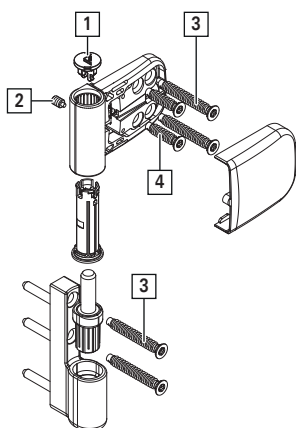
- Sash hinge bush specially secured in the sash hinge to prevent removal



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

					Nº
14 – 16.5	RAL 9016	R07.2	Traffic white	1 Piece(s)	546310 
	SF	SF	Special colour	1 Piece(s)	622487 
	–	–	Stainless steel appearance	1 Piece(s)	836806 
15.5 – 18	RAL 9016	R07.2	Traffic white	24 Piece(s)	547684 
	SF	SF	Special colour	1 Piece(s)	631018 
	–	–	Stainless steel appearance	1 Piece(s)	836807 
16.5 – 19	RAL 1015	R07.5	Light ivory	1 Piece(s)	547065 
	RAL 8003	–	Clay brown	1 Piece(s)	546500 
	RAL 8077	–	Dark brown	1 Piece(s)	546999 
	RAL 9007	–	Grey aluminium	1 Piece(s)	619846 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	547001 
	SF	SF	Special colour	1 Piece(s)	622488 
	–	–	Stainless steel appearance	1 Piece(s)	836808 
17.5 – 20	RAL 9016	R07.2	Traffic white	1 Piece(s)	570568 
	SF	SF	Special colour	1 Piece(s)	631019 
	–	–	Stainless steel appearance	1 Piece(s)	836809 
19 – 21.5	RAL 1015	R07.5	Light ivory	1 Piece(s)	549808 
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	622669 
	RAL 8003	–	Clay brown	1 Piece(s)	546699 
	RAL 8019	R04.1	Grey brown	1 Piece(s)	569883 
	RAL 8077	–	Dark brown	1 Piece(s)	546975 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546415 
	RAL 1036	–	Pearl gold	1 Piece(s)	608848 
	SF	SF	Special colour	1 Piece(s)	622489 
	–	R01.1	Natural silver	1 Piece(s)	894439 
	–	–	Stainless steel appearance	1 Piece(s)	836810 

4.7.1 Spare parts



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

[4] Fixing screw, short

[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, long



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

[4] Fixing screw, short



				Nº
Fixing screw	T30 hexalobular socket	7,3x30	48 Piece(s)	825063 

4.7.2 Accessories

4.7.2.1 Locking pin

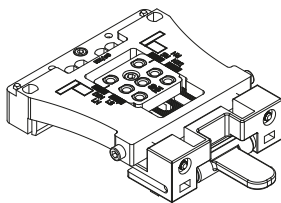




			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 

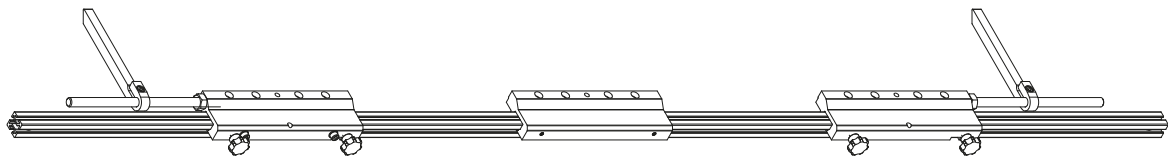
4.7.2.2 Jigs

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 

4.7.3 Drawings

4.7.3.1 Drilling pattern

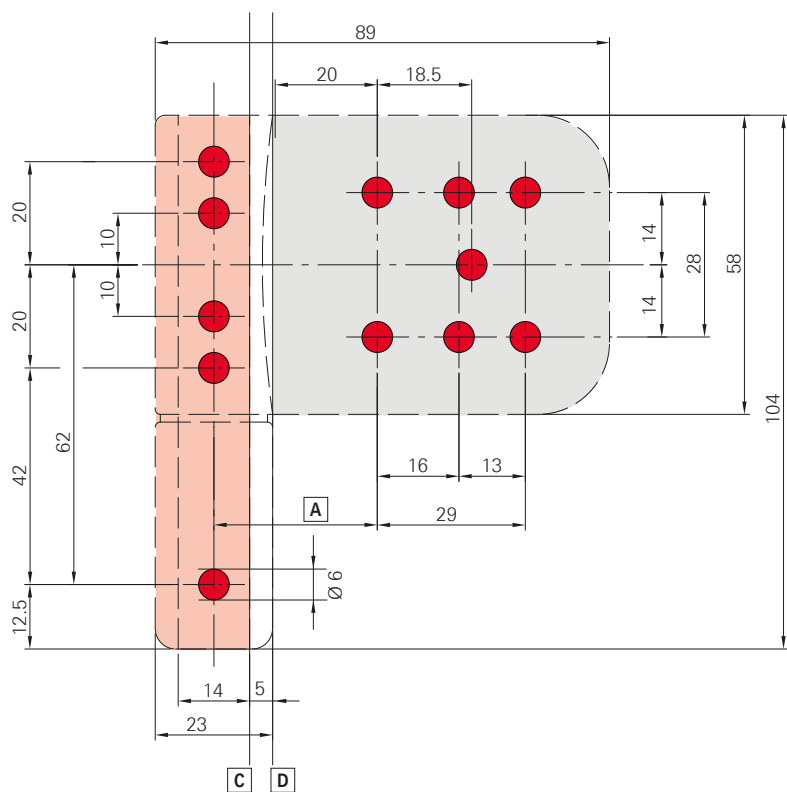


INFO

Example diagram.

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





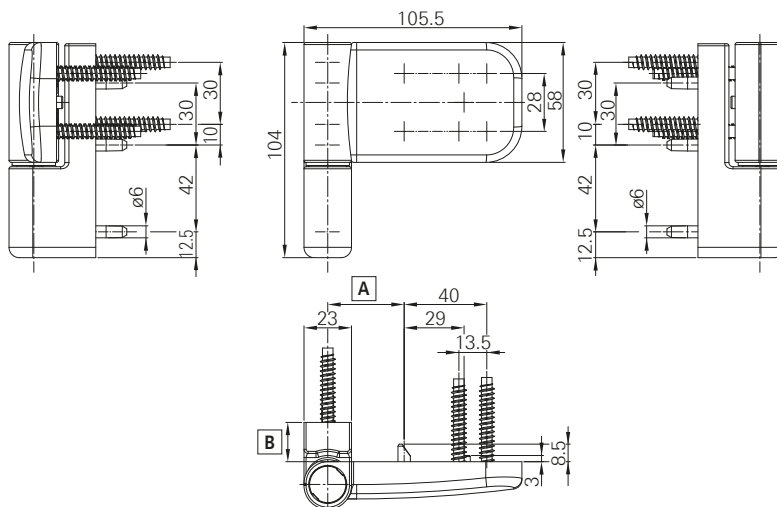
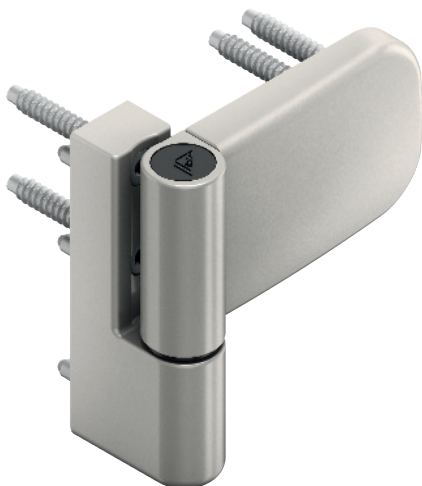
[A] Presetting

[C] Edge of frame hinge body

[D] Edge of sash profile body



4.8 105 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)

					Nº
16.5 – 19	RAL 8077	–	Dark brown	1 Piece(s)	543739
	RAL 9006	–	White aluminium	1 Piece(s)	543684
	RAL 9016	R07.2	Traffic white	1 Piece(s)	542591
	–	–	Stainless steel appearance	1 Piece(s)	836811
19 – 21.5	RAL 8007	–	Fawn brown	1 Piece(s)	544171
	RAL 8077	–	Dark brown	1 Piece(s)	543746
	RAL 8077	–	Dark brown	24 Piece(s)	544018
	RAL 9001	R07.3	Cream	24 Piece(s)	547728
	RAL 9006	–	White aluminium	1 Piece(s)	543685
	RAL 9006	–	White aluminium	24 Piece(s)	547730
	RAL 9016	R07.2	Traffic white	1 Piece(s)	543701
	RAL 9016	R07.2	Traffic white	24 Piece(s)	543804
	–	–	Stainless steel appearance	1 Piece(s)	836812

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

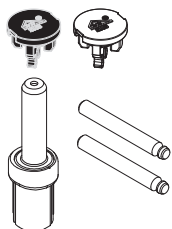
					Nº
14 – 16.5	RAL 1036	–	Pearl gold	1 Piece(s)	544975
	RAL 8077	–	Dark brown	1 Piece(s)	543991
	RAL 9006	–	White aluminium	1 Piece(s)	546919
	RAL 9016	R07.2	Traffic white	1 Piece(s)	551129
	SF	SF	Special colour	1 Piece(s)	622456
	–	–	Stainless steel appearance	1 Piece(s)	836813
15.5 – 18	RAL 8077	–	Dark brown	1 Piece(s)	547598
	RAL 9016	R07.2	Traffic white	1 Piece(s)	547596
	SF	SF	Special colour	1 Piece(s)	622457
	–	–	Stainless steel appearance	1 Piece(s)	836814



					Nº
16.5 – 19	–	–	Bronze	1 Piece(s)	771394 
	RAL 1036	–	Pearl gold	1 Piece(s)	545234 
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	782217 
	RAL 7016M	R02.2M	Anthracite grey, matt	1 Piece(s)	551226 
	RAL 7021	R02.3	Black grey	24 Piece(s)	544330 
	RAL 8003	–	Clay brown	1 Piece(s)	544206 
	RAL 8019	R04.1	Grey brown	1 Piece(s)	545468 
	RAL 8077	–	Dark brown	1 Piece(s)	543601 
	RAL 8077	–	Dark brown	24 Piece(s)	543709 
	RAL 9001	R07.3	Cream	1 Piece(s)	551169 
	RAL 9001	R07.3	Cream	24 Piece(s)	544791 
	RAL 9005	R06.2	Jet black	1 Piece(s)	544240 
	RAL 9006	–	White aluminium	1 Piece(s)	543814 
	RAL 9006	–	White aluminium	24 Piece(s)	543710 
	RAL 9007	–	Grey aluminium	1 Piece(s)	639812 
	RAL 9007	–	Grey aluminium	24 Piece(s)	544875 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	551120 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	543656 
	SF	SF	Special colour	1 Piece(s)	622458 
	–	R01.1	Natural silver	1 Piece(s)	894430 
	–	–	Stainless steel appearance	1 Piece(s)	817078 
17.5 – 20	RAL 8077	–	Dark brown	1 Piece(s)	551241 
	RAL 8077	–	Dark brown	24 Piece(s)	551209 
	RAL 9006	–	White aluminium	1 Piece(s)	546960 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546365 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	545995 
	SF	SF	Special colour	1 Piece(s)	622459 
	–	–	Stainless steel appearance	1 Piece(s)	817082 
19 – 21.5	–	–	Bronze	1 Piece(s)	771405 
	RAL 1036	–	Pearl gold	1 Piece(s)	545008 
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	546397 
	RAL 8003	–	Clay brown	1 Piece(s)	547756 
	RAL 8003	–	Clay brown	24 Piece(s)	545477 
	RAL 8007	–	Fawn brown	1 Piece(s)	545235 
	RAL 8019	R04.1	Grey brown	24 Piece(s)	545472 
	RAL 8077	–	Dark brown	1 Piece(s)	543789 
	RAL 8077	–	Dark brown	24 Piece(s)	543755 
	RAL 9001	R07.3	Cream	1 Piece(s)	545555 
	RAL 9001	R07.3	Cream	24 Piece(s)	545847 
	RAL 9005	R06.2	Jet black	1 Piece(s)	893490 
	RAL 9006	–	White aluminium	1 Piece(s)	543852 
	RAL 9006	–	White aluminium	24 Piece(s)	544574 
	RAL 9007	–	Grey aluminium	1 Piece(s)	545765 
	RAL 9016	R07.2	Traffic white	1 Piece(s)	543788 
	RAL 9016	R07.2	Traffic white	24 Piece(s)	543786 
	SF	SF	Special colour	1 Piece(s)	622460 
	–	R01.1	Natural silver	1 Piece(s)	894431 
	–	R01.1	Natural silver	24 Piece(s)	2000326 
	–	R01.3	Titanium	1 Piece(s)	862291 
	–	–	Stainless steel appearance	1 Piece(s)	817080 
	–	–	Stainless steel appearance	24 Piece(s)	817079 

					Nº
21.5 – 24	SF	SF	Special colour	1 Piece(s)	622461 ☐
	–	–	Bronze	1 Piece(s)	771406 ☒
	RAL 1036	–	Pearl gold	1 Piece(s)	546483 ☒
	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	893491 ☐
	RAL 8077	–	Dark brown	1 Piece(s)	544546 ☒
	RAL 8077	–	Dark brown	24 Piece(s)	544547 ☒
	RAL 9005	R06.2	Jet black	1 Piece(s)	894793 ☐
	RAL 9006	–	White aluminium	1 Piece(s)	546921 ☒
	RAL 9006	–	White aluminium	24 Piece(s)	546922 ☒
	RAL 9016	R07.2	Traffic white	24 Piece(s)	544548 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	544545 ☒
	–	–	Stainless steel appearance	1 Piece(s)	817083 ☒
23 – 25.5	RAL 7016	R02.2	Anthracite grey	1 Piece(s)	861441 ☐
	RAL 8003	–	Clay brown	1 Piece(s)	547055 ☒
	RAL 8077	–	Dark brown	1 Piece(s)	545161 ☒
	RAL 8077	–	Dark brown	24 Piece(s)	545167 ☒
	RAL 9005	R06.2	Jet black	1 Piece(s)	899185 ☐
	RAL 9006	–	White aluminium	1 Piece(s)	545164 ☒
	RAL 9006	–	White aluminium	24 Piece(s)	545170 ☒
	RAL 9016	R07.2	Traffic white	1 Piece(s)	545160 ☒
	RAL 9016	R07.2	Traffic white	24 Piece(s)	545166 ☒
	SF	SF	Special colour	1 Piece(s)	622462 ☐
	–	R01.1	Natural silver	1 Piece(s)	894432 ☐
	–	–	Stainless steel appearance	1 Piece(s)	817081 ☒

SKG** retrofit set

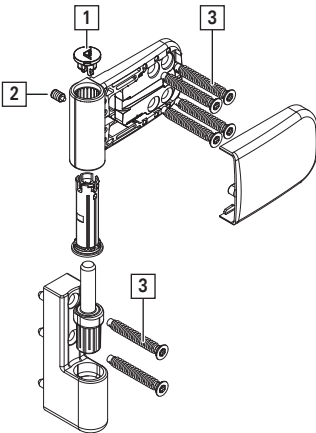


SKG** retrofit set consisting of: 1 black cover cap, 1 white cover cap, 1 hardened axis module, 2 locking pins, 1 installation instructions

		Nº
SKG** retrofit set 105 NN	1 Piece(s)	862478 ☐



4.8.1 Spare parts



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

[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

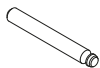
[3] Fixing screw



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

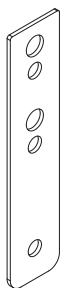
4.8.2 Accessories

4.8.2.1 Locking pin



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

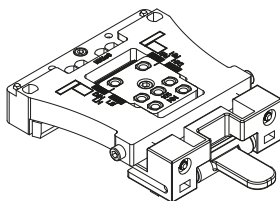
4.8.2.2 Packing plates



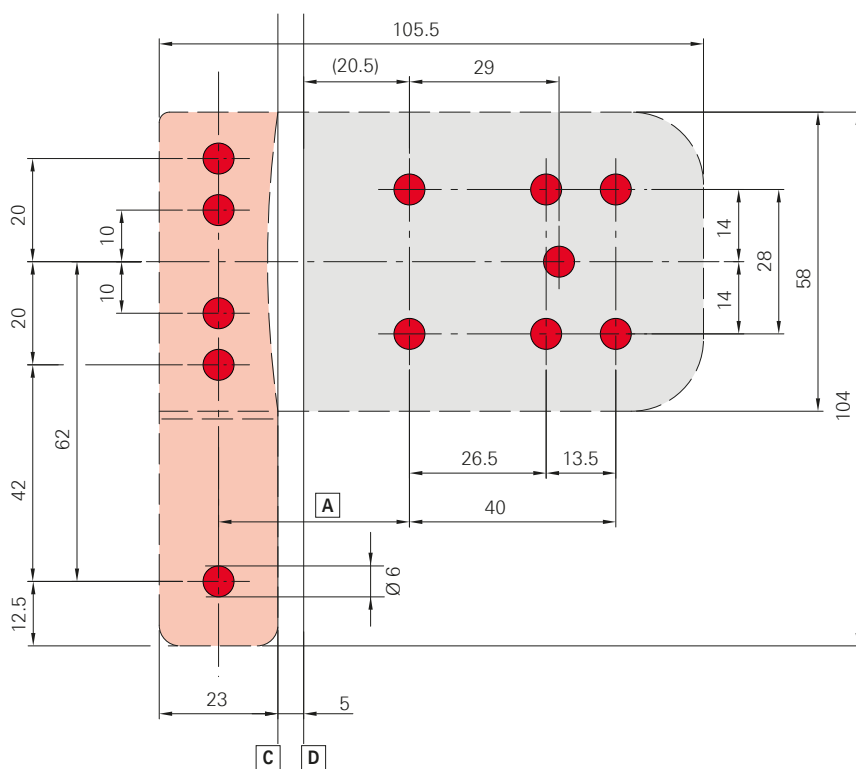
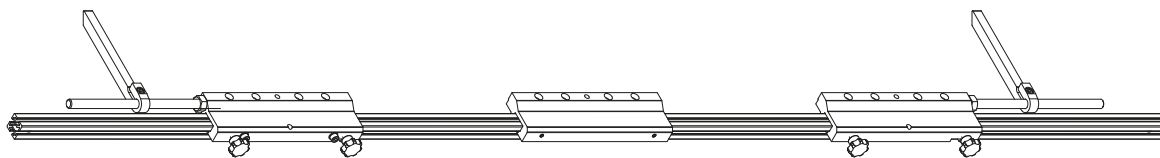
					Nº
1.5	103.5	23	White	24 Piece(s)	546044 
			Black	24 Piece(s)	546045 

4.8.2.3 Jigs

Drilling jig

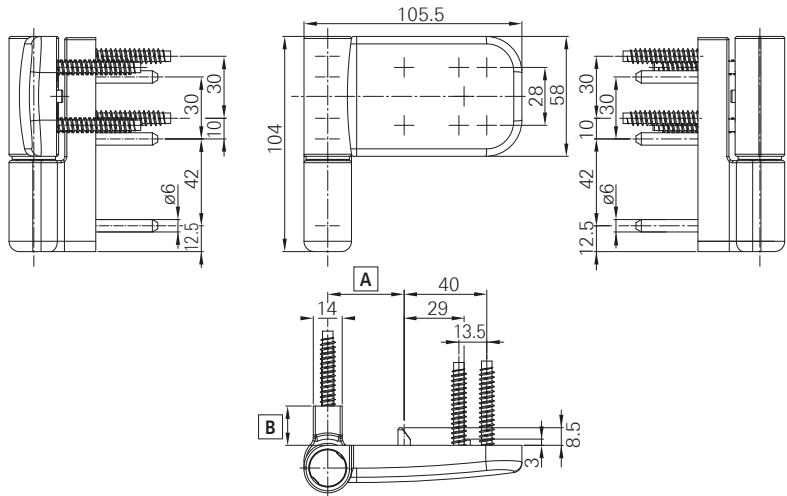


			Nº
Drilling jig	32	1 Piece(s)	541189 
	37	1 Piece(s)	544518 



[D] Edge of sash profile body

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



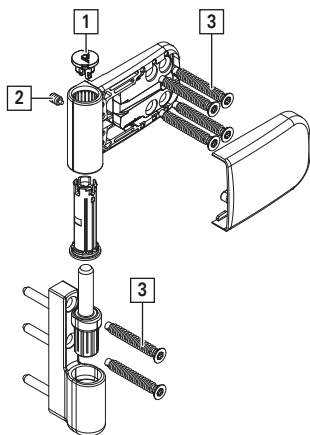
Presetting 32 (screws per hinge: 6x 7.3 x 50)

					Nº
17.5 – 20	RAL 8019	R04.1	Grey brown	24 Piece(s)	729191
	RAL 9016	R07.2	Traffic white	1 Piece(s)	549647
	RAL 9016	R07.2	Traffic white	24 Piece(s)	729190
	SF	SF	Special colour	1 Piece(s)	637183
	–	–	Stainless steel appearance	1 Piece(s)	836815

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

					Nº
14 – 16.5	RAL 9016	R07.2	Traffic white	1 Piece(s)	547058
	SF	SF	Special colour	1 Piece(s)	622463
	–	–	Stainless steel appearance	1 Piece(s)	836816
15.5 – 18	SF	SF	Special colour	1 Piece(s)	631031
16.5 – 19	RAL 1036	–	Pearl gold	1 Piece(s)	840194
	RAL 8003	–	Clay brown	1 Piece(s)	810461
	RAL 8077	–	Dark brown	1 Piece(s)	546424
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546311
	SF	SF	Special colour	1 Piece(s)	622464
	–	R01.1	Natural silver	1 Piece(s)	894440
17.5 – 20	RAL 8003	–	Clay brown	1 Piece(s)	619845
	SF	SF	Special colour	1 Piece(s)	631032
	–	–	Stainless steel appearance	1 Piece(s)	836817
19 – 21.5	RAL 8077	–	Dark brown	1 Piece(s)	546538
	RAL 9001	R07.3	Cream	1 Piece(s)	549191
	RAL 9006	–	White aluminium	1 Piece(s)	546974
	RAL 9016	R07.2	Traffic white	1 Piece(s)	546402
	SF	SF	Special colour	1 Piece(s)	622486
	–	R01.1	Natural silver	1 Piece(s)	894438
	–	–	Stainless steel appearance	1 Piece(s)	836818

4.9.1 Spare parts



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

[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

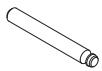


				Nº
Fixing screw	T30 hexalobular socket	7,3x50	48 Piece(s)	823912 



4.9.2 Accessories

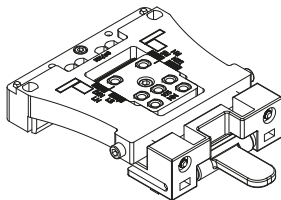
4.9.2.1 Locking pin



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

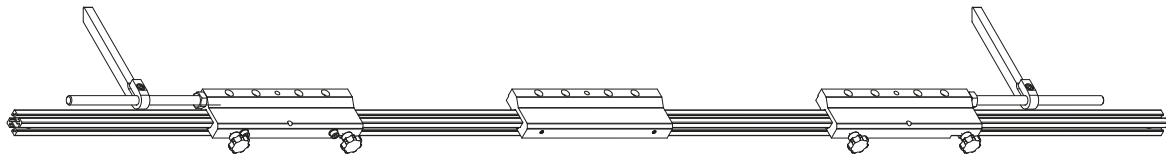
4.9.2.2 Jigs

Drilling jig



			Nº
Drilling jig	37	1 Piece(s)	547530 

Telescopic holder for drilling jigs



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

4.9.3 Drawings

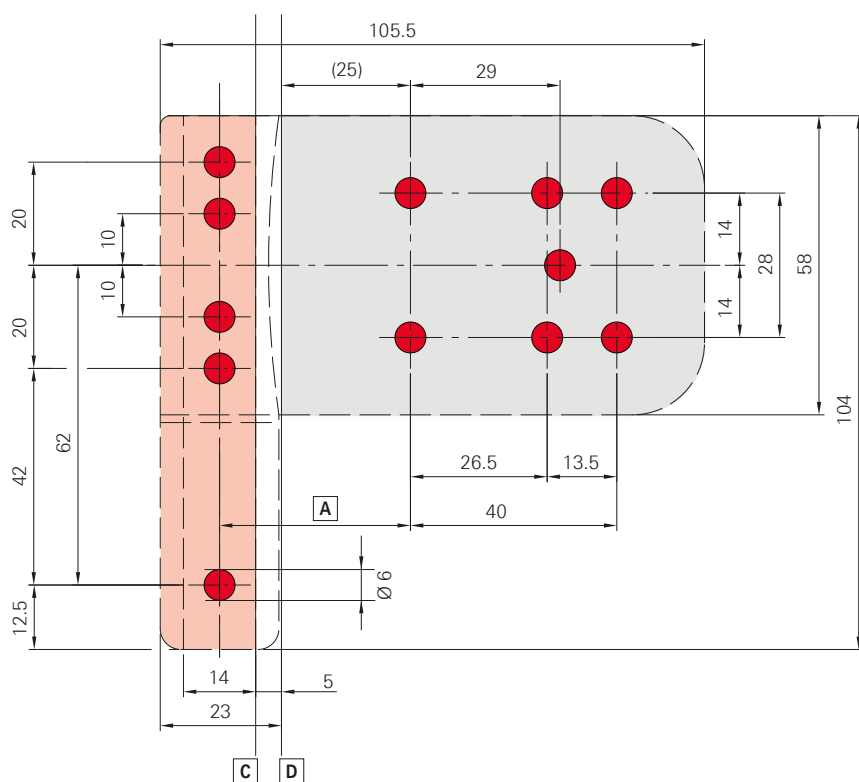
4.9.3.1 Drilling pattern



INFO

Example diagram.

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



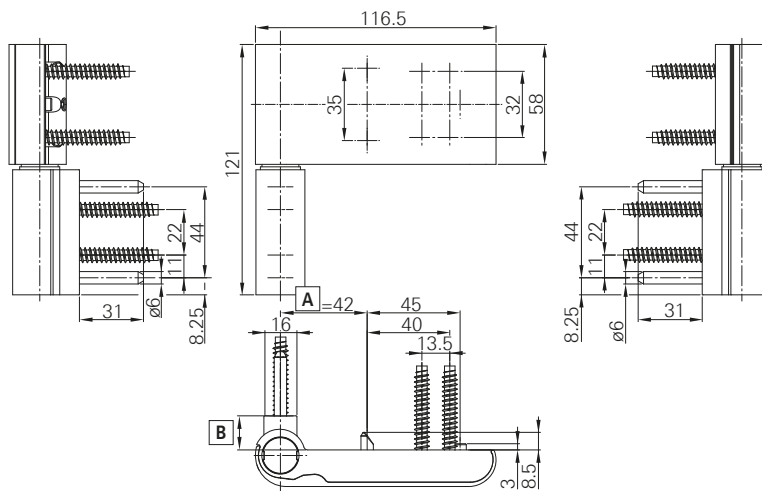
[A] Presetting

[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



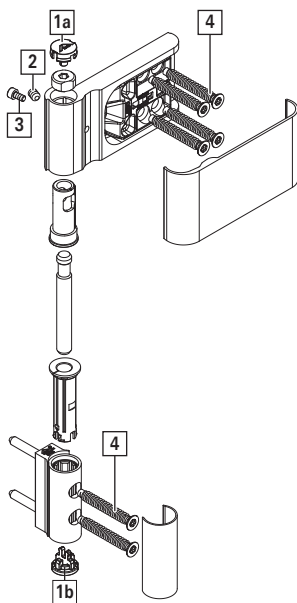
Security

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

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

						Nº
16.5 – 19	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	632531
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	632529
	–	R01.1	Natural silver	anod.	1 Piece(s)	632532
19 – 21.5	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	640149
	–	R01.1	Natural silver	anod.	1 Piece(s)	729807
21 – 23.5	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	729808
	–	R01.1	Natural silver	anod.	1 Piece(s)	729809

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

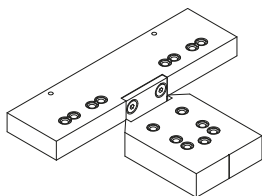
4.10.2.1 Locking pin



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

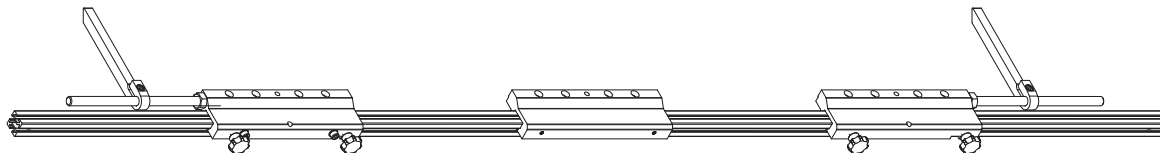
4.10.2.2 Jigs

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

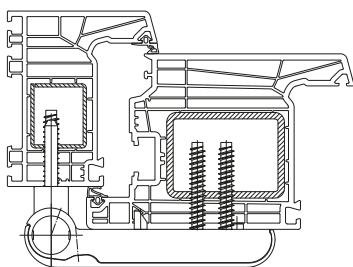


INFO

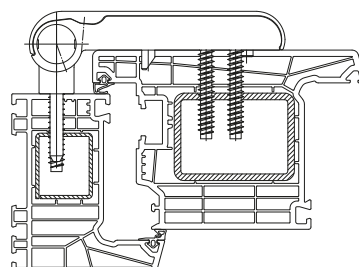
Installation examples for the aforementioned versions are shown here.

Installation examples for specific profile systems are available upon request.

Inward opening



Outward opening



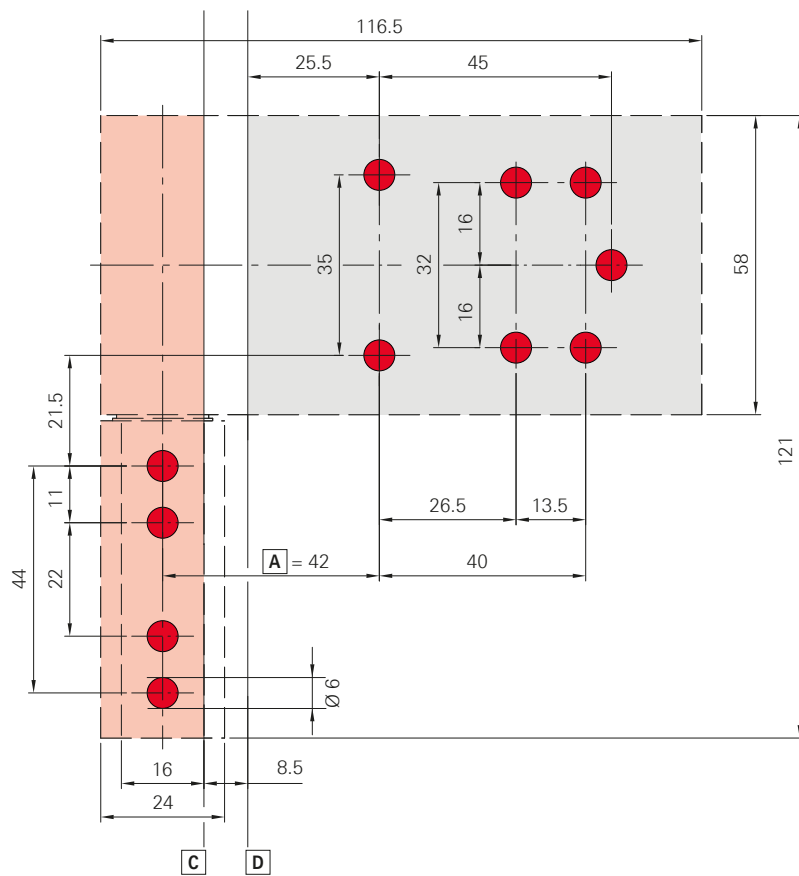
4.10.3.2 Drilling pattern



INFO

Example diagram.

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



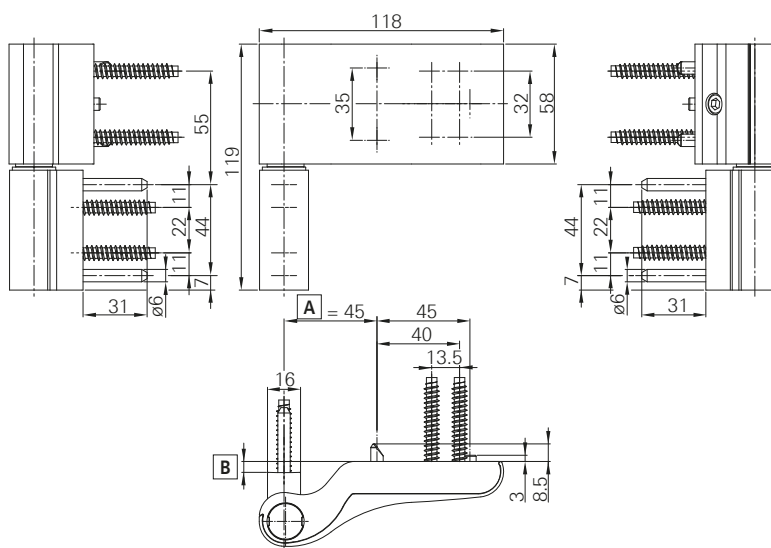
[A] Presetting

[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)

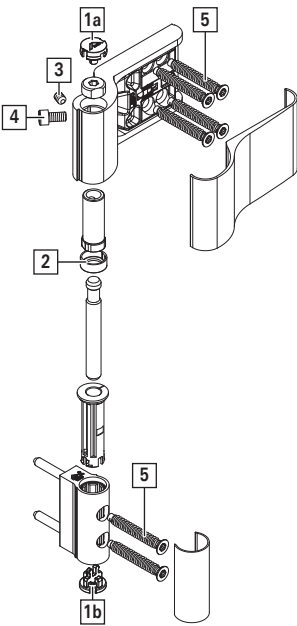
						Nº
-4.5 – -6	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	604642 ☒
	RAL 9001	R07.3	Cream	powd-c	24 Piece(s)	774594 ☒
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	616482 ☒
	RAL 9016	R07.2	Traffic white	powd-c	24 Piece(s)	774605 ☒
	–	R01.1	Natural silver	anod.	1 Piece(s)	616484 ☒
	–	R01.1	Natural silver	anod.	24 Piece(s)	774606 ☒
-6.25 – -7.75	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	619756 ☒
	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	619704 ☒
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	619755 ☒
	–	R01.1	Natural silver	anod.	1 Piece(s)	619757 ☒
-7.75 – -9.25	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	619700 ☒
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	619701 ☒
	–	R01.1	Natural silver	anod.	1 Piece(s)	619703 ☒
-9.75 – -11.25	RAL 9001	R07.3	Cream	powd-c	1 Piece(s)	899405 ☐
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	899389 ☐
	SF	SF	Special colour	–	1 Piece(s)	899408 ☐
	E6/C-0	R01.1	Natural silver	anod.	1 Piece(s)	899407 ☐

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 ☐
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	828440 ☐
	SF	SF	Special colour	–	1 Piece(s)	862511 ☐
	–	R01.1	Natural silver	anod.	1 Piece(s)	828441 ☐



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

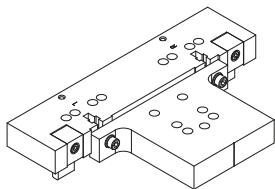


			Nº
Locking pin	T30 hexalobular socket	100 Piece(s)	825049 



4.11.2.2 Jigs

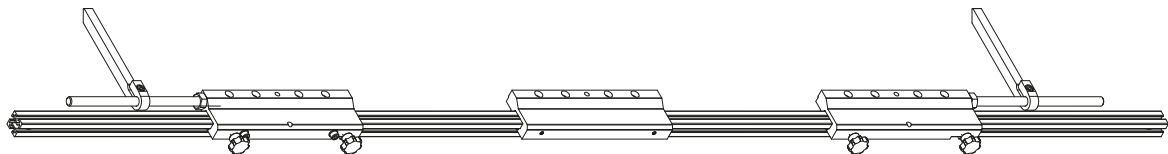
Drilling jig



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



Telescopic holder for drilling jigs



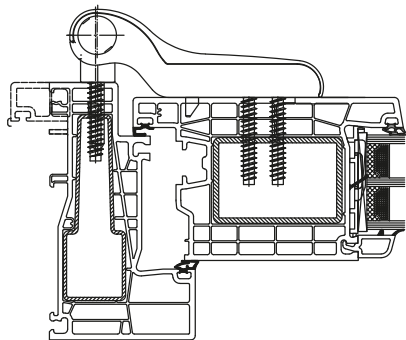
		Nº
Telescopic holder for drilling jigs	1 Piece(s)	243408

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.



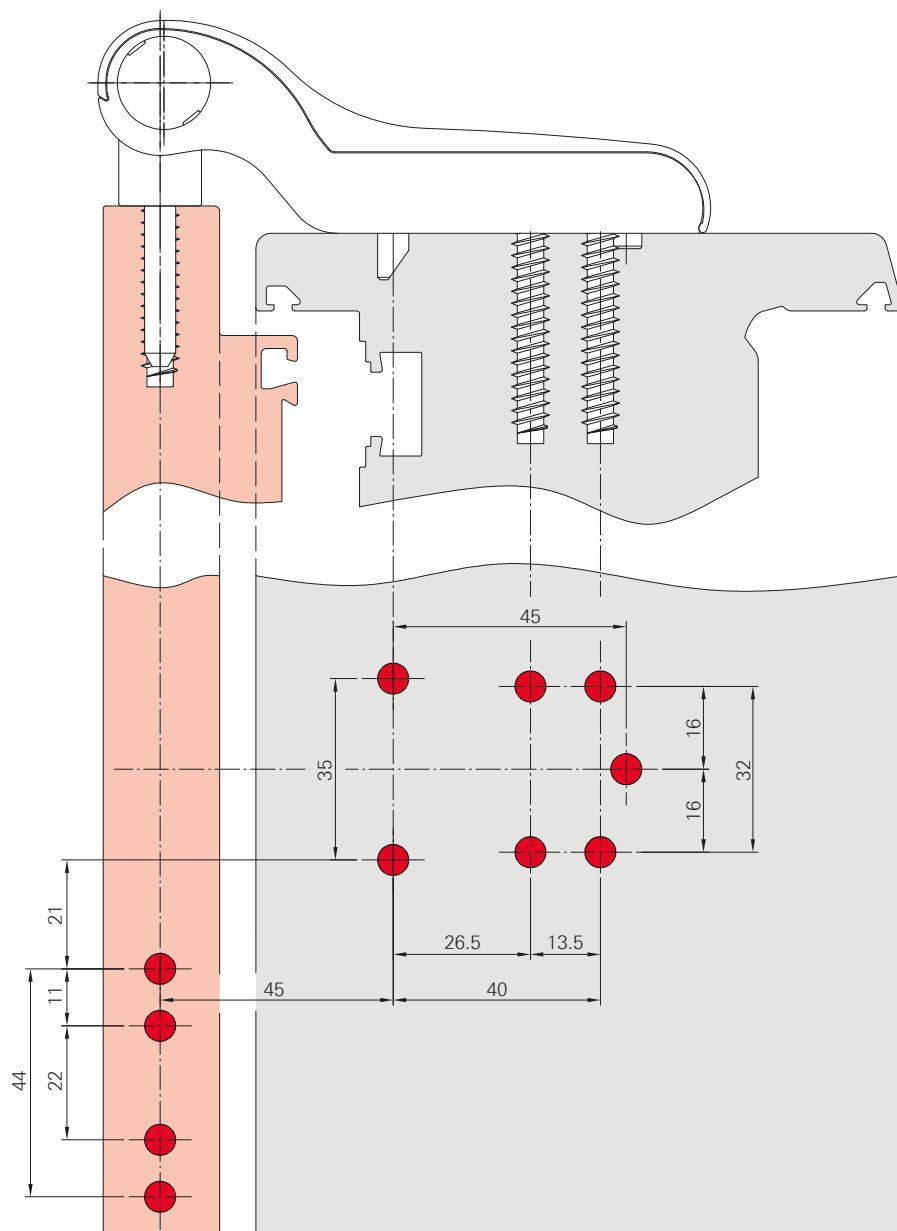
4.11.3.2 Drilling pattern



INFO

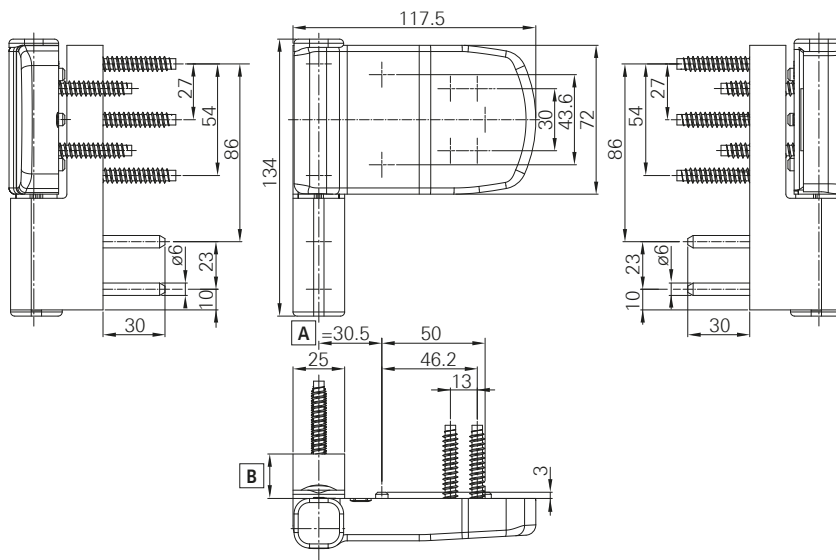
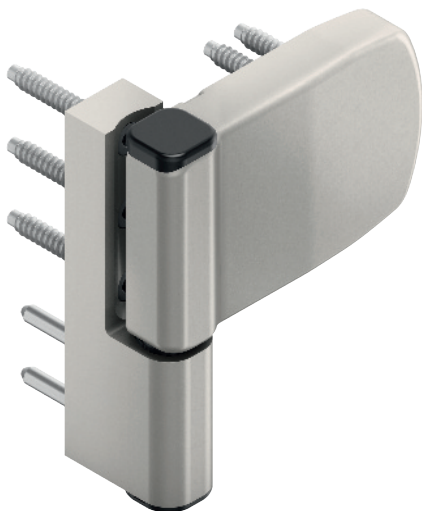
Example diagram.

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





4.12 118 Z



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 118 Z 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
- Ideal when space for installation and removal is limited between leaf and lintel
- Optimal load transfer on the leaf via triangle of forces
- With integrated adjusting scale

Adjustment range

- Laterally adjustable: +10 / -5 mm
- Height adjustable: ± 4 mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.5 mm by turning the eccentric sash hinge bush

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

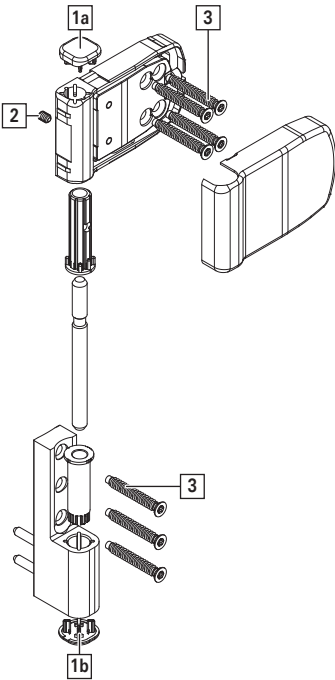
- SKG**,-certified

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

						Nº
15 – 17.5	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	541961
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	541962
	–	R01.1	Natural silver	anod.	1 Piece(s)	541959
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 
	White	10 Piece(s)	809947 

[1b] Bottom 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 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

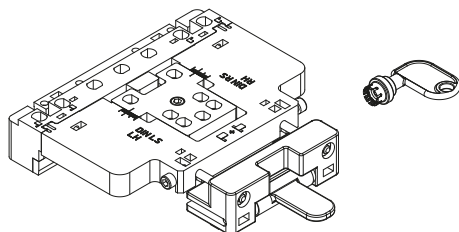


					Nº
2	128	25	Black	10 Piece(s)	809334
			White	10 Piece(s)	809333



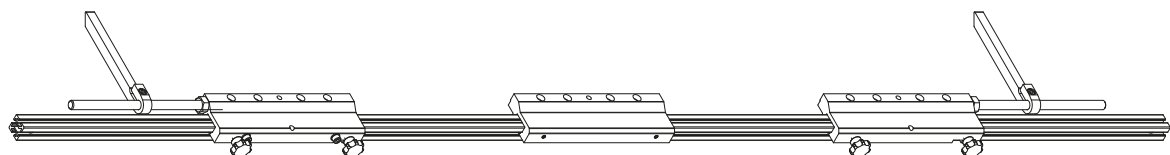
4.12.2.3 Jig

Drilling jig



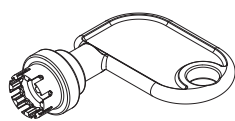
			Nº
Drilling jig	incl. adjustment key	1 Piece(s)	540603 

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 

4.12.3 Drawings

4.12.3.1 Drilling pattern



INFO

Example diagram.

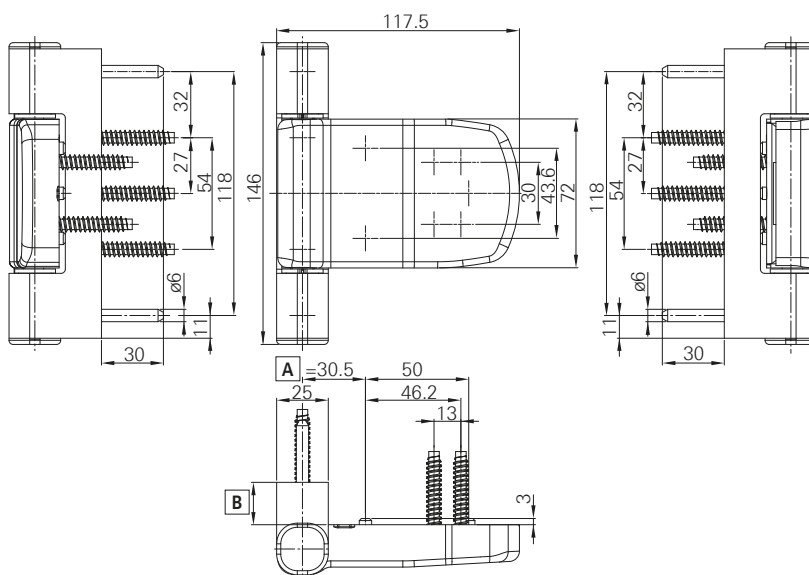
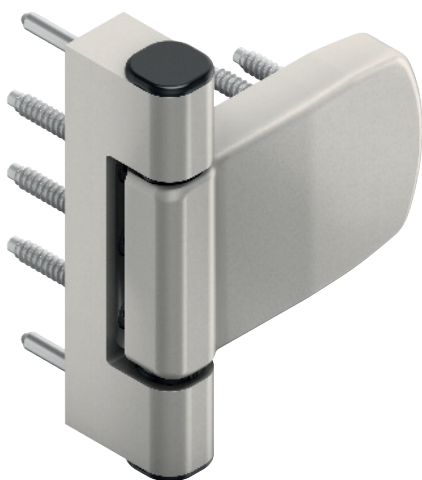
Drilling patterns are profile-related (available upon request).



[D] Edge of sash profile body



4.13 118 D



[A] Presetting

[B] Overlap height



Product description

The Roto Solid S | 118 D three-part screw-on hinge is suitable for especially large and frequently used timber and PVC entrance doors up to a sash weight of 150 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 150 kg
- Ideal when space for installation and removal is limited between leaf and lintel
- Optimal load transfer on the leaf via triangle of forces
- With integrated adjusting scale

Adjustment range

- Laterally adjustable: +10 / -5 mm
- Height adjustable: ± 4 mm
- Gasket compression adjustable: ± 0.75 mm
- Additional gasket compression adjustment of ± 0.5 mm by turning the eccentric sash hinge bushes



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

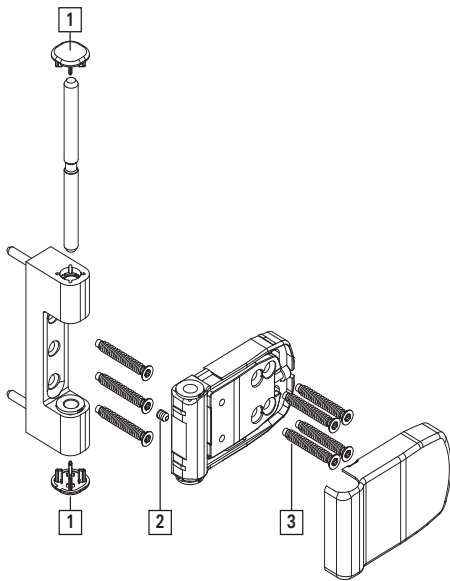
- SKG**,-certified

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

						Nº
12.5 – 15	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	541995 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	541996 
	–	R01.1	Natural silver	anod.	1 Piece(s)	541993 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546911 
15 – 17.5	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	542014 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	542015 
	–	R01.1	Natural silver	anod.	1 Piece(s)	542012 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	545700 
17.5 – 20	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	542032 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	542033 
	RAL 9006	–	White aluminium	powd-c	1 Piece(s)	547646 
	–	R01.1	Natural silver	anod.	1 Piece(s)	542029 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	542031 
19 – 21.5	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	547498 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	547496 
	–	R01.1	Natural silver	anod.	1 Piece(s)	547497 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	547500 
20 – 22.5	RAL 8077	–	Dark brown	powd-c	1 Piece(s)	544536 
	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	544311 
	–	R01.1	Natural silver	anod.	1 Piece(s)	546916 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546915 
23 – 25.5	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	544312 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	546917 
	–	R01.1	Natural silver	anod.	1 Piece(s)	546918 
25 – 27.5	RAL 9016	R07.2	Traffic white	powd-c	1 Piece(s)	624580 
	–	R01.1	Natural silver	anod.	1 Piece(s)	624583 
	–	R03.4	Stainless-steel design	anod.	1 Piece(s)	624582 



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 



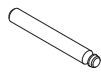
[3] Fixing screw



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

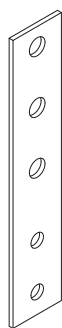
4.13.2 Accessories

4.13.2.1 Locking pin



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

4.13.2.2 Packing plates

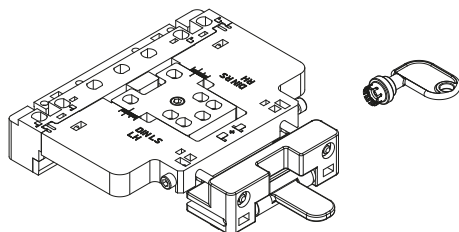


					Nº
1	140	25	Black	10 Piece(s)	809559 
			White	10 Piece(s)	809558 



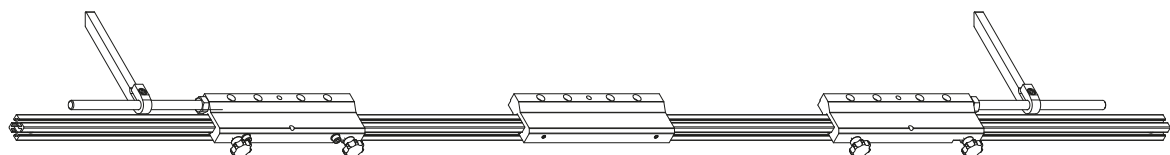
4.13.2.3 Jig

Drilling jig



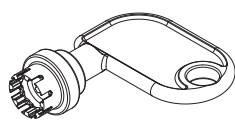
			Nº
Drilling jig	incl. adjustment key	1 Piece(s)	540603 

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

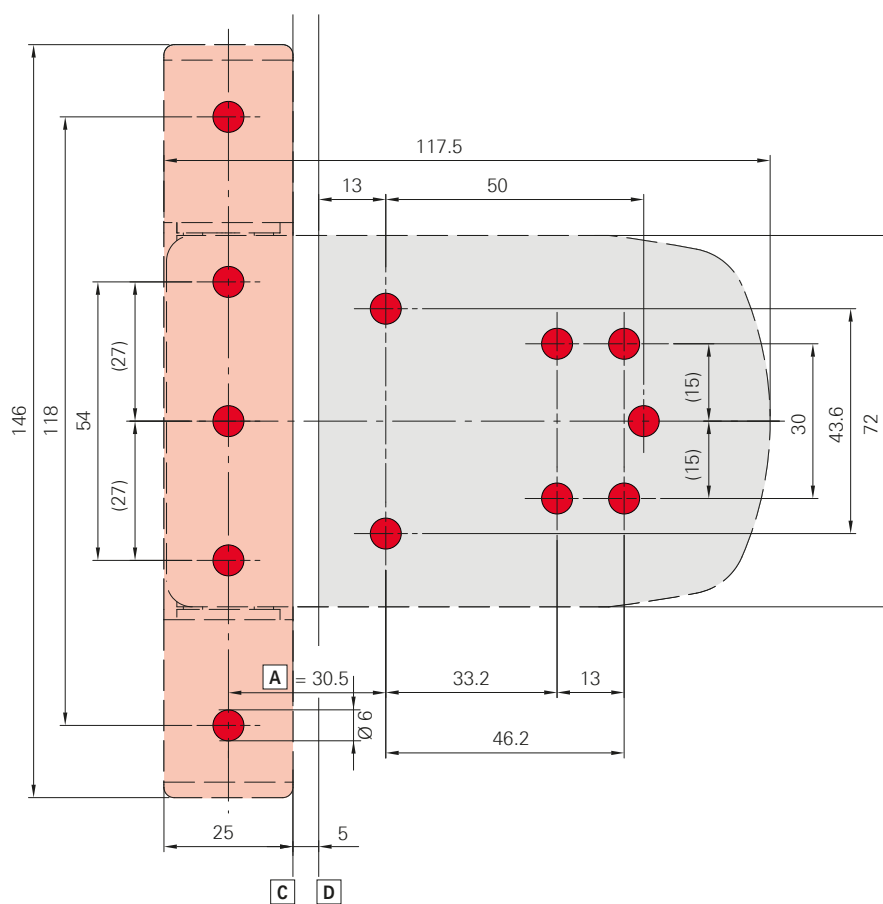


INFO

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
Akotherm AT 600	2802	2878	89	–	–	23.4 8.25
	2879					
	2875	2878	62.5	–	–	23.4 8.25
Akotherm 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
Akotherm AT 740 SI	2700	2577	62.5	8 x 63	–	23.4 8.25
	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 14 x 60	23.4 8.25
	1430	1437	84	8 x 63	–	–
	1437					
	1502	1417	62.5	–	14 x 50	23.4 8.25
		1427				
Aliplast Eco Futural		1436	62.5	8 x 63	–	–
		2502	89	–	14 x 50	23.4 8.25
	EF414	EF425	62.5	8 x 63	–	–
	EL014X	EL024X	62.5	–	–	23.4 8.25
Aliplast Econoline						
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

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				
		M11084	62.5	–	14 x 50	–
	M11088	M11082	62.5	–	14 x 50	–
		M11084				
		M11454				
		M11464				
	M11586	M11582	62.5	8 x 63	14 x 50	23.4 8.25
		M11636				
	M15078	M15182	62.5	–	–	23.4 8.25
Alumil SD 95	S95002	M62514	62.5	–	–	23.4 8.25
		M62518	62.5	–	–	23.4 8.25
		M11134	62.5	–	–	23.4 8.25
	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				
	K518731X	K518762X	62.5	8 x 63	14 x 50	–
		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					
	252302	252280	62.5	–	–	23.4 8.25
	252112					
	252180					
	462806	252281	84	–	–	23.4 8.25
	252102					
	252302					
	252382					
GUTMANN GWD 070n	270102	270280	62.5	–	14 x 50	23.4 8.25
	270180					
	460805					
	270180	270280	62.5	8 x 63	–	–
	270302		62.5	8 x 63	–	23.4 8.25
	270181		62.5	–	14 x 50	–
	270102	270181	89	8 x 63	14 x 50	–
	270302					
	270382					
	270180	270282	62.5	–	14 x 50	23.4 8.25
	270281	270282	62.5	–	14 x 50	–
GUTMANN GWD 080n	280180	280281	62.5	8 x 63	14 x 50	23.4 8.25
heroal D65	9358	9381	62.5	–	14 x 50	23.4 8.25
	9380		89	–	14 x 50	23.4 8.25
	9383					
heroal D72	21680	21681	62.5	8 x 63	–	–
	21780	21765				
	21080	19541				
		21081				
heroal D92	23060-02	23089	62.5	–	14 x 50	23.4 8.25
HUECK A72	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	–				
	50028		89	–	14 x 50	21.5 x 15.5				
	50114									
	50120									
	50028									
	50125									
	50898	51026	62.5	–	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	008.2014.XX	62.5	–	14 x 50	–				
	008.0569.XX									
	008.0428.XX						89	–	14 x 50	–
	008.3183.XX						89	–	14 x 50	–
	008.0589.XX	008.2026.XX	62.5	–	14 x 50	21.5 x 15.5				
	008.1029.XX									
	008.1898.XX									
	008.3183.XX									
	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				
	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					

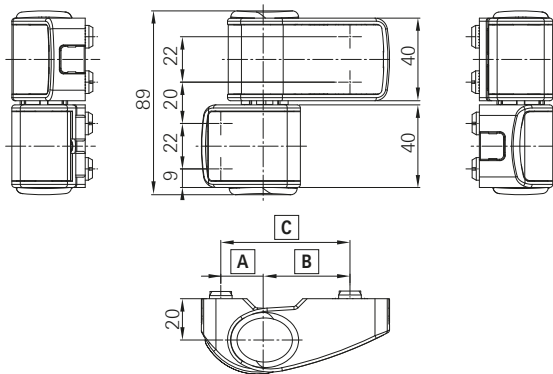


Profile system	Frame number	Leaf number	Flatness deviation	Screw for direct mounting	Linkdrill I	Backing plate
Schüco ADS 75.SI	371190	371280	62.5	8 x 63	–	21.5 x 15.5
	371210	371280	62.5	–	14 x 50	21.5 x 15.5
	381870	395700	62.5	8 x 63	–	–
		381960	62.5	8 x 63	14 x 50	21.5 x 15.5
		381980	62.5	8 x 63	–	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.



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

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 overview

Profile material	Backing plate	Linkdrill I	Linkdrill II	Direct mounting
Aluminium	■	■	-	■
Timber	-	-	-	-



Profile material	Backing plate	Linkdrill I	Linkdrill II	Direct mounting
Timber – aluminium	-	-	-	-

■ = possible, - = not possible

Mounting with backing plate or Linkdrill I



INFO

Mounting material (→ *from page 165*) is not included in the scope of delivery.

								Nº
62.5	20.5	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548292 ■
	20.5		RAL 8077	–	Dark brown	Right	6 Piece(s)	548296 ■
	20.5		RAL 9005	R06.2	Jet black	Left	6 Piece(s)	565485 ■
	20.5		RAL 9005	R06.2	Jet black	Right	6 Piece(s)	565493 ■
	20.5		RAL 9006	–	White aluminium	Left	6 Piece(s)	548291 ■
	20.5		RAL 9006	–	White aluminium	Right	6 Piece(s)	548295 ■
	20.5		RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548290 ■
	20.5		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548294 ■
67.5	20.5	47	RAL 9005	R06.2	Jet black	Left	6 Piece(s)	619393 ■
	20.5		RAL 9005	R06.2	Jet black	Right	6 Piece(s)	619400 ■
	20.5		RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548298 ■
	20.5		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548302 ■
78	20.5	57.5	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548306 ■
	20.5		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548310 ■
62.5	20.5	42	–	–	Stainless steel appearance	Left	6 Piece(s)	836998 □
	20.5		–	–	Stainless steel appearance	Right	6 Piece(s)	836999 □
67.5	20.5	47	–	–	Stainless steel appearance	Left	6 Piece(s)	837002 □
	20.5		–	–	Stainless steel appearance	Right	6 Piece(s)	837003 □
78	20.5	57.5	–	–	Stainless steel appearance	Left	6 Piece(s)	837004 □
	20.5		–	–	Stainless steel appearance	Right	6 Piece(s)	837010 □
84	42	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548316 ■
	42		RAL 8077	–	Dark brown	Right	6 Piece(s)	548320 ■
	42		RAL 9005	R06.2	Jet black	Left	6 Piece(s)	565525 ■
	42		RAL 9005	R06.2	Jet black	Right	6 Piece(s)	565528 ■
	42		RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548314 ■
	42		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548318 ■
	42		–	–	Stainless steel appearance	Left	6 Piece(s)	837011 □
	42		–	–	Stainless steel appearance	Right	6 Piece(s)	837012 □
94	47	47	RAL 9005	R06.2	Jet black	Left	6 Piece(s)	619404 ■
	47		RAL 9005	R06.2	Jet black	Right	6 Piece(s)	619409 ■
	47		RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548346 ■
	47		RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548350 ■
	47		–	–	Stainless steel appearance	Left	6 Piece(s)	837026 □
	47		–	–	Stainless steel appearance	Right	6 Piece(s)	837027 □

Direct mounting



INFO

Mounting material is included in the scope of delivery.

										Nº
62.5	20.5	42	4	8x63	RAL 8077	–	Dark brown	Left	6 Piece(s)	736014 ☒
		42	4	8x63	RAL 8077	–	Dark brown	Right	6 Piece(s)	736028 ☒
		42	4	8x63	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	736026 ☒
		42	4	8x63	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	736030 ☒
		42	4	8x68	–	–	Stainless steel appearance	Left	24 Piece(s)	828124 ☒
		42	4	8x68	–	–	Stainless steel appearance	Right	24 Piece(s)	828130 ☒
		42	4	8x73	–	–	Stainless steel appearance	Left	24 Piece(s)	828131 ☒
		42	4	8x73	–	–	Stainless steel appearance	Right	24 Piece(s)	828132 ☒
		42	4	8x73	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	835004 ☐
		42	4	8x73	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	835005 ☐
		42	4	8x73	–	–	Stainless steel appearance	Left	6 Piece(s)	835006 ☐
		42	4	8x73	–	–	Stainless steel appearance	Right	6 Piece(s)	835007 ☐
		42	4	8x63	–	–	Stainless steel appearance	Left	6 Piece(s)	837000 ☐
		42	4	8x63	–	–	Stainless steel appearance	Right	6 Piece(s)	837001 ☐
84	42	42	4	8x73	RAL 9016	R07.2	Traffic white	Left	24 Piece(s)	775771 ☒
		42	4	8x73	RAL 9016	R07.2	Traffic white	Right	24 Piece(s)	775772 ☒
		42	4	8x73	–	–	Stainless steel appearance	Left	24 Piece(s)	837013 ☐
		42	4	8x73	–	–	Stainless steel appearance	Right	24 Piece(s)	837014 ☐

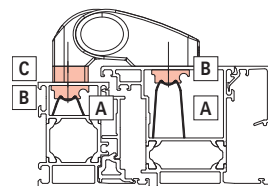
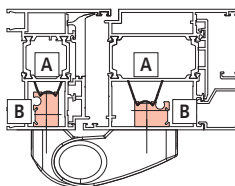
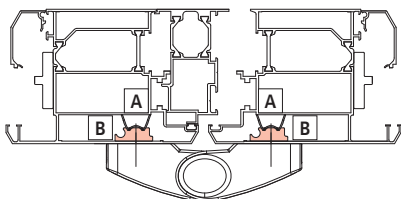


4.15.1 Mounting types

4.15.1.1 Aluminium

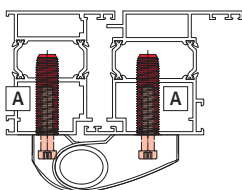


Backing plates



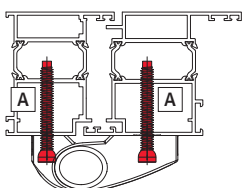
- [A] Stainless-steel spring → *from page 168*
 [B] Backing plates → *from page 165*
 [C] Packing plates, optional → *from page 167*

Linkdrill I



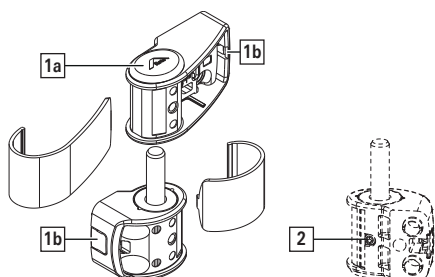
- [A] Linkdrill I → *from page 168*
 [Not sh.] Packing plates, optional → *from page 167*

Direct mounting



- [A] Fixing screw for direct mounting → *from page 166*
 [Not sh.] Packing plates, optional → *from page 167*

4.15.2 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
	White	10 Piece(s)		809565

[1b] Side cover cap



				Nº
Cover cap	Black	10 Piece(s)		809563
	White	10 Piece(s)		809564

[2] Axis pin fixing

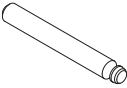


				Nº
Axis pin fixing	M6x8	100 Piece(s)		825047



4.15.3 Accessories

4.15.3.1 Locking pin

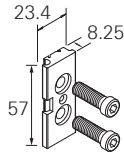
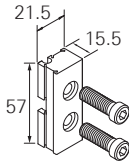
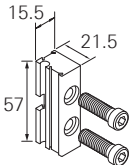


		Nº
Locking pin	100 Piece(s)	825056



4.15.3.2 Mounting

4.15.3.2.1 Backing plate set

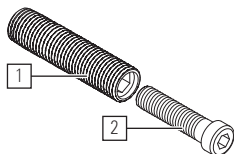


				Nº
15.5	21.5	M8x25	1 Set(s)	548484
21.5	15.5	M8x25	1 Set(s)	548945
	15.5	M8x40	1 Set(s)	610336
23.4	8.25	M8x25	1 Set(s)	551296
	8.25	M8x40	1 Set(s)	551358

Contents

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

4.15.3.2.2 Linkdrill I

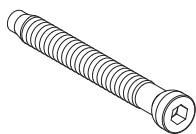


- [1] Linkdrill I
[2] Fixing screw

					Nº
Link drill I M14x50		–	–	48 Piece(s)	548516 
	with fixing screw		M8x40	48 Piece(s)	548515 
Link drill I M14x60		–	–	48 Piece(s)	561379 
	with fixing screw		M8x40	48 Piece(s)	561698 

4.15.3.2.3 Direct mounting

Fixing screw for direct mounting



			Nº
63	Silver	48 Piece(s)	771087 
68	Black	48 Piece(s)	771088 
73	Green	48 Piece(s)	771089 



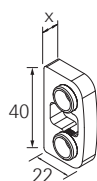
4.15.3.2.4 Packing plates

ATB packing plates for screw fixing with backing plates, Linkdrill I and Linkdrill II



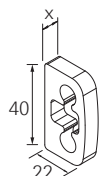
INFO

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



					Nº
7	RAL 8077	–	Dark brown	6 Piece(s)	548490
	RAL 9005	R06.2	Jet black	6 Piece(s)	568360
	RAL 9006	–	White aluminium	6 Piece(s)	548489
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548488
	–	–	Stainless steel appearance	6 Piece(s)	858503
10	RAL 8077	–	Dark brown	6 Piece(s)	548494
	RAL 9005	R06.2	Jet black	6 Piece(s)	568361
	RAL 9006	–	White aluminium	6 Piece(s)	548493
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548492
	–	–	Stainless steel appearance	6 Piece(s)	858504
12	RAL 9016	R07.2	Traffic white	6 Piece(s)	548496
	–	–	Stainless steel appearance	6 Piece(s)	858530
14	RAL 9016	R07.2	Traffic white	6 Piece(s)	548500
	–	–	Stainless steel appearance	6 Piece(s)	858531
18	RAL 9016	R07.2	Traffic white	6 Piece(s)	548504
	–	–	Stainless steel appearance	6 Piece(s)	858532
19	RAL 9016	R07.2	Traffic white	6 Piece(s)	548508
	–	–	Stainless steel appearance	6 Piece(s)	858533

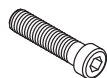
ATB packing plates for direct mounting



					Nº
5.7	–	–	Stainless steel appearance	24 Piece(s)	825071 
7	RAL 9006	–	White aluminium	6 Piece(s)	764321 
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764322 
10	RAL 9006	–	White aluminium	6 Piece(s)	764272 
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764273 
	–	–	Stainless steel appearance	24 Piece(s)	828137 
14	–	–	Stainless steel appearance	24 Piece(s)	828138 

4.15.3.2.5 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 

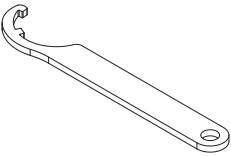
4.15.3.2.6 Stainless-steel spring



		Nº
Stainless steel spring for use with backing plates	200 Piece(s)	894093 



4.15.3.3 Adjustment key

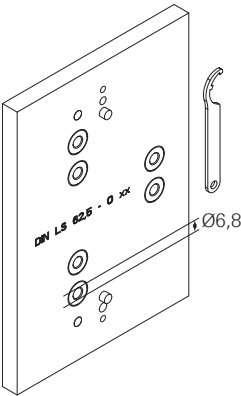


		Nº
Adjustment key for 80 ATB, 120 ATB	1 Piece(s)	825046 



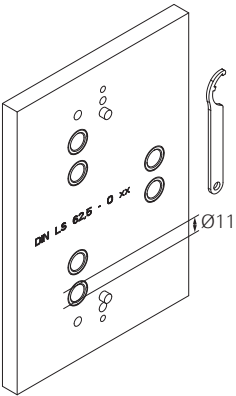
4.15.3.4 Jigs

Drilling jig for direct mounting



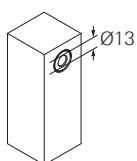
						Nº
Drilling jig direct mounting	incl. adjustment key	62.5	20.5	42	1 Piece(s)	737661 

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

4.15.4 Drawings

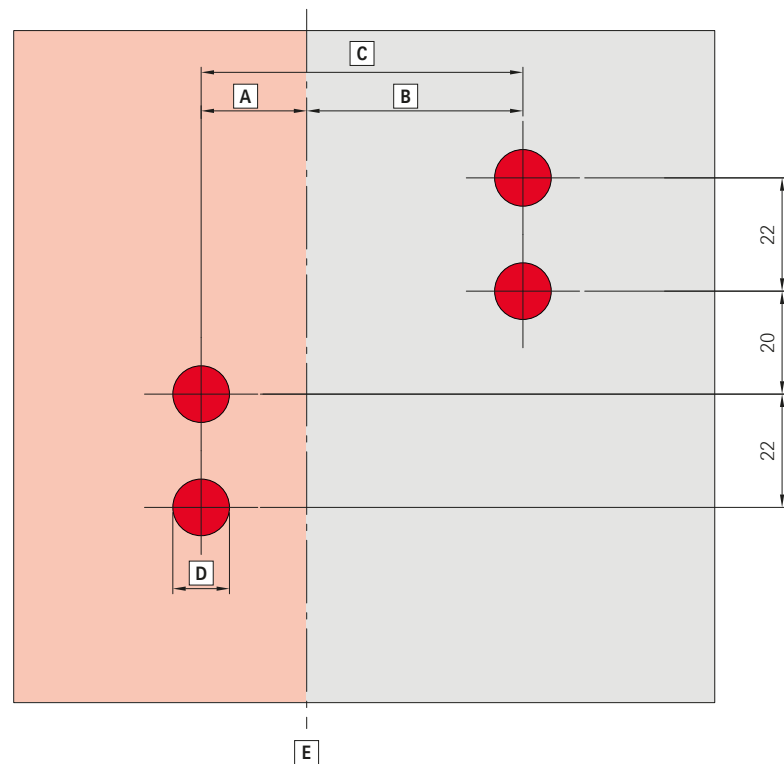
4.15.4.1 Drilling pattern



INFO

Example diagram.

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



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

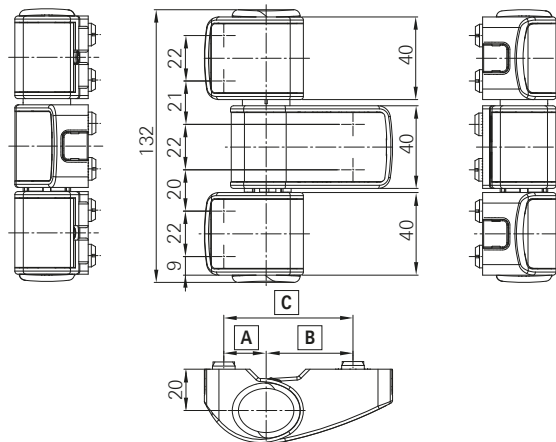
[B] Distance from centre of shadow groove or pivot point to leaf fixing

[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

4.16 120 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 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 overview

Profile material	Backing plate	Linkdrill I	Linkdrill II	Direct mounting
Aluminium	■	■	-	■
Timber	-	-	■	-
Timber – aluminium	-	-	■	-

■ = possible, - = not possible

Mounting with backing plate, Linkdrill I or Linkdrill II



INFO

Mounting material (→ *from page 165*) is not included in the scope of delivery.



								Nº
62.5	20.5	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548388 ■
	20.5	42	RAL 8077	–	Dark brown	Right	6 Piece(s)	548392 ■
	20.5	42	RAL 9005	R06.2	Jet black	Left	6 Piece(s)	568358 ■
	20.5	42	RAL 9005	R06.2	Jet black	Right	6 Piece(s)	568359 ■
	20.5	42	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548386 ■
	20.5	42	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548390 ■
	20.5	42	–	–	Stainless steel appearance	Left	6 Piece(s)	837028 □
	20.5	42	–	–	Stainless steel appearance	Right	6 Piece(s)	837035 □
67.5	20.5	47	RAL 8077	–	Dark brown	Left	6 Piece(s)	548396 ■
	20.5	47	RAL 8077	–	Dark brown	Right	6 Piece(s)	548400 ■
	20.5	47	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548394 ■
	20.5	47	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548398 ■
	20.5	47	–	–	Stainless steel appearance	Left	6 Piece(s)	837038 □
	20.5	47	–	–	Stainless steel appearance	Right	6 Piece(s)	837039 □
78	20.5	57.5	RAL 8077	–	Dark brown	Left	6 Piece(s)	548404 ■
	20.5	57.5	RAL 8077	–	Dark brown	Right	6 Piece(s)	548408 ■
	20.5	57.5	RAL 9006	–	White aluminium	Left	6 Piece(s)	548403 ■
	20.5	57.5	RAL 9006	–	White aluminium	Right	6 Piece(s)	548407 ■
	20.5	57.5	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548402 ■
	20.5	57.5	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548406 ■
	20.5	57.5	–	–	Stainless steel appearance	Left	6 Piece(s)	837045 □
	20.5	57.5	–	–	Stainless steel appearance	Right	6 Piece(s)	837046 □
84	42	42	RAL 8077	–	Dark brown	Left	6 Piece(s)	548412 ■
	42	42	RAL 8077	–	Dark brown	Right	6 Piece(s)	548416 ■
	42	42	RAL 9006	–	White aluminium	Left	6 Piece(s)	548411 ■
	42	42	RAL 9006	–	White aluminium	Right	6 Piece(s)	548415 ■
	42	42	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548410 ■
	42	42	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548414 ■
	42	42	–	–	Stainless steel appearance	Left	6 Piece(s)	837047 □
	42	42	–	–	Stainless steel appearance	Right	6 Piece(s)	837048 □
94	47	47	RAL 8077	–	Dark brown	Left	6 Piece(s)	548444 ■
	47	47	RAL 8077	–	Dark brown	Right	6 Piece(s)	548448 ■
	47	47	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	548442 ■
	47	47	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	548446 ■
	47	47	–	–	Stainless steel appearance	Left	6 Piece(s)	837056 □
	47	47	–	–	Stainless steel appearance	Right	6 Piece(s)	837057 □

Direct mounting



INFO

Mounting material (→ *from page 178*) is not included in the scope of delivery.

										Nº
62.5	20.5	42	6	8x63	RAL 9006	–	White aluminium	Left	6 Piece(s)	736007
	20.5	42	6	8x63	RAL 9006	–	White aluminium	Right	6 Piece(s)	736011
	20.5	42	6	8x63	RAL 9016	R07.2	Traffic white	Left	6 Piece(s)	736008
	20.5	42	6	8x63	RAL 9016	R07.2	Traffic white	Right	6 Piece(s)	736012
	20.5	42	6	8x73	RAL 9016	R07.2	Traffic white	Left	24 Piece(s)	776239
	20.5	42	6	8x73	RAL 9016	R07.2	Traffic white	Right	24 Piece(s)	776240
	20.5	42	6	8x73	RAL 9016	R07.2	Traffic white	Left	1 Piece(s)	834997
	20.5	42	6	8x73	RAL 9016	R07.2	Traffic white	Right	1 Piece(s)	834998
	20.5	42	6	8x63	–	–	Stainless steel appearance	Left	24 Piece(s)	837036
	20.5	42	6	8x63	–	–	Stainless steel appearance	Right	24 Piece(s)	837037
	20.5	42	6	8x68	–	–	Stainless steel appearance	Left	24 Piece(s)	828133
	20.5	42	6	8x68	–	–	Stainless steel appearance	Right	24 Piece(s)	828134
	20.5	42	6	8x73	–	–	Stainless steel appearance	Left	1 Piece(s)	835000
	20.5	42	6	8x73	–	–	Stainless steel appearance	Right	1 Piece(s)	835001
	20.5	42	6	8x73	–	–	Stainless steel appearance	Left	24 Piece(s)	828135
	20.5	42	6	8x73	–	–	Stainless steel appearance	Right	24 Piece(s)	828136
84	42	42	6	8x73	RAL 9016	R07.2	Traffic white	Left	24 Piece(s)	775763
	42	42	6	8x73	RAL 9016	R07.2	Traffic white	Right	24 Piece(s)	775764
	42	42	6	8x73	–	–	Stainless steel appearance	Left	1 Piece(s)	835002
	42	42	6	8x73	–	–	Stainless steel appearance	Right	1 Piece(s)	835003
	42	42	6	8x73	–	–	Stainless steel appearance	Left	24 Piece(s)	837049
	42	42	6	8x73	–	–	Stainless steel appearance	Right	24 Piece(s)	837055

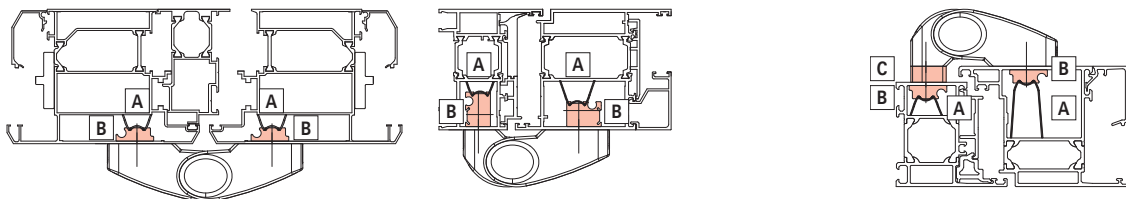


4.16.1 Mounting types

4.16.1.1 Aluminium



Backing plates

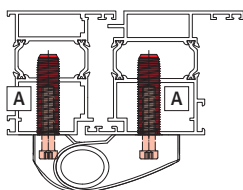


[A] Stainless-steel spring → *from page 181*

[B] Backing plates → *from page 178*

[C] Packing plates, optional → *from page 180*

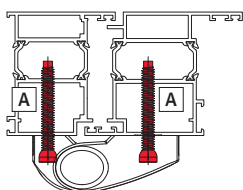
Linkdrill I



[A] Linkdrill I → *from page 178*

[Not sh.] Packing plates, optional → *from page 180*

Direct mounting



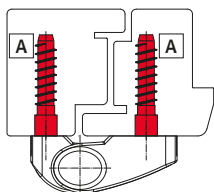
[A] Fixing screw for direct mounting → *from page 179*

[Not sh.] Packing plates, optional → *from page 180*

4.16.1.2 Timber



Linkdrill II



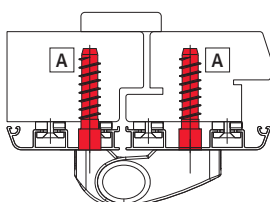
[A] Linkdrill II → *from page 179*

[Not sh.] Packing plates, optional → *from page 180*

4.16.1.3 Timber / timber-aluminium



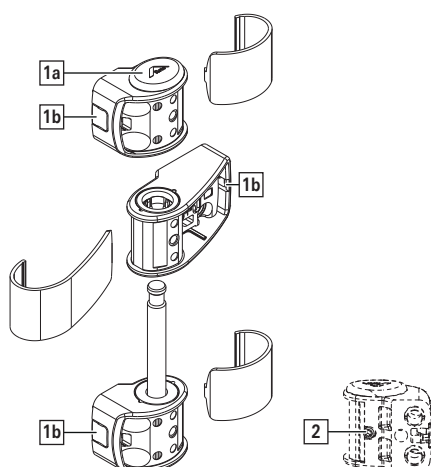
Linkdrill II



[A] Linkdrill II → *from page 179*

[Not sh.] Packing plates, optional → *from page 180*

4.16.2 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
	White	10 Piece(s)	809565

[1b] Side cover cap



			Nº
Cover cap	Black	10 Piece(s)	809563
	White	10 Piece(s)	809564

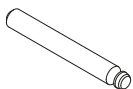
[2] Axis pin fixing



			Nº
Axis pin fixing	M6x8	100 Piece(s)	825047

4.16.3 Accessories

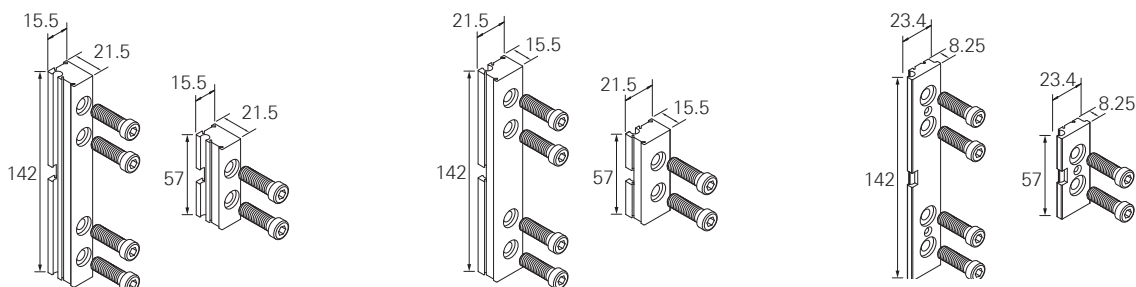
4.16.3.1 Locking pin



		Nº
Locking pin	100 Piece(s)	825056

4.16.3.2 Mounting

4.16.3.2.1 Backing plate set

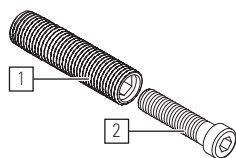


				Nº
15.5	21.5	M8x25	1 Set(s)	548486
21.5	15.5	M8x25	1 Set(s)	548946
23.4	8.25	M8x25	1 Set(s)	548485

Contents

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

4.16.3.2.2 Linkdrill I

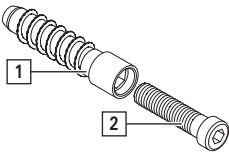


- [1] Linkdrill I
[2] Fixing screw

				Nº
Link drill I M14x50	–	–	48 Piece(s)	548516
	with fixing screw	M8x40	48 Piece(s)	548515
Link drill I M14x60	–	–	48 Piece(s)	561379
	with fixing screw	M8x40	48 Piece(s)	561698



4.16.3.2.3 Linkdrill II

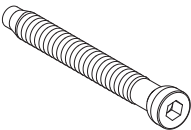


- [1] Linkdrill II
- [2] Fixing screw

					Nº
Link drill II M14x50	–	–	1 Piece(s)	543910	■
	with fixing screw	M8x40	48 Piece(s)	548517	■
Link drill II M14x63	–	–	1 Piece(s)	833237	■
	with fixing screw	M8x40	48 Piece(s)	548518	■

4.16.3.2.4 Direct mounting

Fixing screw for direct mounting



				Nº
63	Silver	48 Piece(s)	771087	■
68	Black	48 Piece(s)	771088	■
73	Green	48 Piece(s)	771089	■



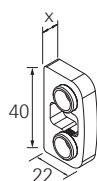
4.16.3.2.5 Packing plates

ATB packing plates for screw fixing with backing plates, Linkdrill I and Linkdrill II



INFO

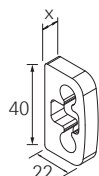
To support the frame in the case of offset profile combinations.



					Nº
7	RAL 8077	–	Dark brown	6 Piece(s)	548490 
	RAL 9005	R06.2	Jet black	6 Piece(s)	568360 
	RAL 9006	–	White aluminium	6 Piece(s)	548489 
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548488 
	–	–	Stainless steel appearance	6 Piece(s)	858503 
10	RAL 8077	–	Dark brown	6 Piece(s)	548494 
	RAL 9005	R06.2	Jet black	6 Piece(s)	568361 
	RAL 9006	–	White aluminium	6 Piece(s)	548493 
	RAL 9016	R07.2	Traffic white	6 Piece(s)	548492 
	–	–	Stainless steel appearance	6 Piece(s)	858504 
12	RAL 9016	R07.2	Traffic white	6 Piece(s)	548496 
	–	–	Stainless steel appearance	6 Piece(s)	858530 
14	RAL 9016	R07.2	Traffic white	6 Piece(s)	548500 
	–	–	Stainless steel appearance	6 Piece(s)	858531 
18	RAL 9016	R07.2	Traffic white	6 Piece(s)	548504 
	–	–	Stainless steel appearance	6 Piece(s)	858532 
19	RAL 9016	R07.2	Traffic white	6 Piece(s)	548508 
	–	–	Stainless steel appearance	6 Piece(s)	858533 



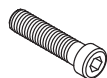
ATB packing plates for direct mounting



					Nº
5.7	–	–	Stainless steel appearance	24 Piece(s)	825071
7	RAL 9006	–	White aluminium	6 Piece(s)	764321
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764322
10	RAL 9006	–	White aluminium	6 Piece(s)	764272
	RAL 9016	R07.2	Traffic white	6 Piece(s)	764273
	–	–	Stainless steel appearance	24 Piece(s)	828137
14	–	–	Stainless steel appearance	24 Piece(s)	828138

4.16.3.2.6 Screw fixing

Fixing screws for backing plates, Linkdrill I and Linkdrill II



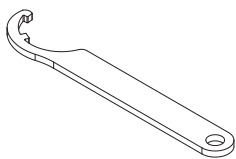
		Nº
M8x25	48 Piece(s)	547947
M8x40	48 Piece(s)	548512
M8x50	48 Piece(s)	548513

4.16.3.2.7 Stainless-steel spring



		Nº
Stainless steel spring for use with backing plates	200 Piece(s)	894093

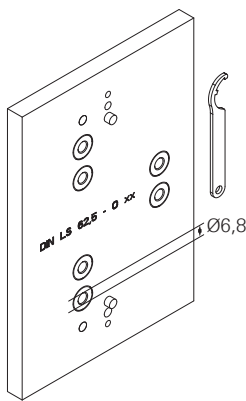
4.16.3.2.8 Adjustment key



			Nº
Adjustment key for 80 ATB, 120 ATB		1 Piece(s)	825046 

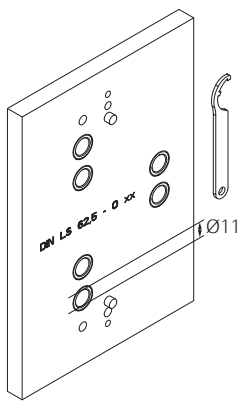
4.16.3.3 Jigs

Drilling jig for direct mounting



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

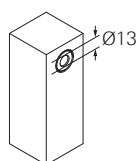
Drilling jig for backing plate and Linkdrill I





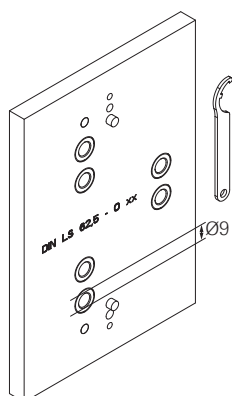
						Nº
Drilling jig for backing plate and link drill I	incl. adjustment key	62.5	20.5	42	1 Piece(s)	547218
		67.5	20.5	47	1 Piece(s)	547223
		78	20.5	57.5	1 Piece(s)	547225
		84	42	42	1 Piece(s)	547227
		94	47	47	1 Piece(s)	547235

Additional drilling jig for Linkdrill I



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

Drilling jig for Linkdrill II



						Nº
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



			Nº
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

4.16.4 Drawings

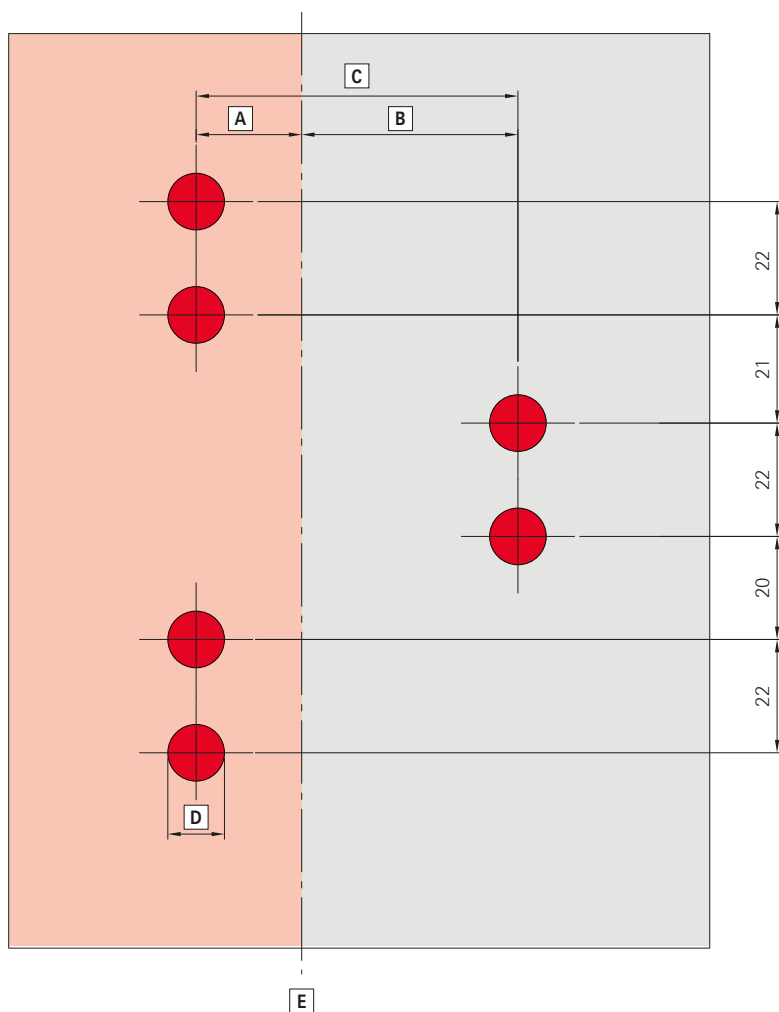
4.16.4.1 Drilling pattern



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

Roto Solid C





Profile overview

See page 190

C7.140

Accessories 200

Drawings 204

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.

Inward opening

Marking	Translation
BFP VB	Mounting plate, adjustable
BLT	Hinge tab casing
BNM	Blind rivet nut (for HVM with DBS)
DBS	Direct fixing screw
ENM	Rivet nut
FL-BD	Sash hinge
HVM	Height adjustment module
RA-BD	Frame hinge
*	With 2 mm bracket adapter
**	With 1.5 mm packing plate

Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP VB	HVM	DBS	BNM
Aliplast Green Star	GT415	GT1626 GT424	IV	IV	III	–	II	48	■
Aliplast Imperial 800*	IP815	IP824	IV	IV	–	–	II	48	–
Aliplast Superial*	SP815	SP824 SP1826	IV	IV	–	–	II	48	–
Aliplast Star75	RS415	RS424 RS1626	IV	IV	III	–	II	48	■
Aliplast Genesis	GN415	GN424 GN1624 GN1626	IV	IV	III	–	II	48	■
	GN032 +	GN424 GN1624 GN1626	IV	IV	III	44 - 55	II	63	–
	GN455	GN1626							
AluK Triton	P-03-124R2	P-03-224R2	IV	IV	III	–	II	48	■
	P-03-A101	P-03-224R2 P-03-224P1	IV	IV	III	44 - 55	II	48	–
Alumil SD77	S77586	S77582 S77584	IV	IV	–	–	II	48	–
Alumil SD95	S95016	S95028	IV	IV	–	44 - 55	II	63	–
Aluprof MB-70	K518105X	K518355X	IV	IV	III	–	II	48	■
Aluprof MB-86	K518730X	K518740X	IV	IV	III	–	II	48	■
	K718730X	K718745X K718759X							
Aluprof MB-104	K519141X	K519161X K519164X K519175X	IV	IV	III	–	II	48	■



Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP VB	HVM	DBS	BNM
Aluron AS 75P	P2401	P2441	IV	IV	–	–	II	48	■
		P2451							
		P2453							
	P2405	P2441	IV	IV	–	44 - 55	II	63	–
		P2451							
		P2453							
Blyweert Olympia	P-09-124	P-09-B224	IV	IV	III	–	II	48	–
Feal Termo 65 VS	FT-0257	FT-0250	IV	IV	III	–	II	48	–
Feal Termo 85 VS	FT-0513F	FT-0561F	IV	IV	–	44 - 55	II	63	–
	FT-0551F	FT-0563F	IV	IV	–	–	II	35	■
	FT-0575F	FT-0561F	IV	IV	–	44 - 55	II	63	–
Heroal D72	21080	19541	IV	IV	III	–	II	48	■
		21081							
		21691							
	21252	21651	IV	IV	III	–	II	48	■
	21623	21641	IV	IV	III	44 - 55	II	48	■
	21624	21081	IV	IV	III	55 - 66	II	73	–
		21645							
		21681							
	21660	21643	IV	IV	III	–	II	63	■
		21645							
		21645 - H							
		21651							
		21655							
	21680	21645 - H	IV	IV	III	–	II	48	■
		21651							
		21655							
		21681							
	21780	21665	IV	IV	III	–	II	48	■
		21755							
		21765							
	21820	21645	IV	IV	III	–	II	63	■
		21841							
		21843							
	21823	21645	IV	IV	III	44 - 55	II	63	–
		21841							
		21843							
	21824	21645	IV	IV	III	55 - 66	II	73	–
		21841							
		21843							
	21840	21645	IV	IV	III	–	II	48	■
		21841							
		21843							
	21860	21643	IV	IV	III	–	II	63	■
		21645							
		21881							
	21863	21645	IV	IV	III	44 - 55	II	63	–
		21851							
		21881							

Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP VB	HVM	DBS	BNM
Heroal D72	21864	21645	IV	IV	III	55 - 66	II	73	–
		21851							
		21881							
	21880	21645	IV	IV	III	–	II	48	■
		21851							
		21881							
	22023	21641	IV	IV	III	–	II	35	■
		21651							
		21665	IV	IV	III	44 - 55	II	63	–
		21681							
	22024	21645	IV	IV	III	44 - 55	II	63	–
		21681	IV	IV	III	66 - 77	II	63	■
	22533	21881	IV	IV	III	–	II	48	■
	22543	21881	IV	IV	III	–	II	48	■
Heroal D94	29460	29461	IV	IV	III	–	II	63	■
		29680	IV	IV	III	–	II	48	■
	29681	19241	IV	IV	III	–	II	48	■
		29681							
	21252	83352	IV	IV	III	–	II	48	■
Metra NC65	nc15662	nc15855	IV	IV	III	–	II	48	■
		nc15879							
Metra NC75	nc15667	nc15855	IV	IV	III	–	II	48	■
		nc15879							
	nc17662	nc17855	IV	IV	III	–	II	48	■
		nc17879	IV	IV	III	–	II	48	■
Metra NC90	nc17667	nc17855	IV	IV	III	–	II	48	■
		nc17879							
	nc13662	nc13855	IV	IV	III	–	II	48	■
		nc13879							
Ponzio PE68**	6762	6764	IV	IV	III	–	II	48	■
Ponzio PE78N**	7862	7864	IV	IV	III	–	II	48	■
		7862T	IV	IV	III	–	II	48	■
	7848	78PR66B	IV	IV	III	55 - 66	II	63	–
		78PR66B							
Reynaers CS77	82014	82026	IV	IV	III	–	II	63	–
Reynaers MasterLine 8	4080898	4080026	IV	IV	III	–	II	48	■
Schüco ADS 70.HI	358170	395540	IV	IV	III	44 - 55	II	63	–
		396660							
	372220-HD	395540	IV	IV	III	44 - 55	II	63	–
		396660							
Schüco ADS 75.SI	381910	395700	IV	IV	V	–	II	63	–
		396870	IV	IV	III	44 - 55	II	63	–
	382150	395700	IV	IV	III	44 - 55	II	63	–
		396870	IV	IV	III	44 - 55	II	63	–
	381870-HD	395700	IV	IV	V	44 - 55	II	63	–
		396870							
Schüco ADS 90.SI	396910	395700	IV	IV	V	–	II	63	–
		476440							
	356990	439070	IV	IV	V	–	II	48	■
		441090	IV	IV	V	44 - 55	II	63	–
Sapa Avantis 70	A7K803	A7V826	X	IV	VI	–	II	35	■
Sapa 70 FP	SF7K203	SP22145	X	IV	VI	–	II	48	–
Yawal TM 62 HI	04.14067	04.24078	IV	IV	III	–	II	48	–
Yawal TM 74 HI	28.14067	28.24078	IV	IV	III	–	II	48	–



Profile system	Frame no.	Leaf no.	RA-BD	FL-BD	BLT	BFP VB	HVM	DBS	BNM
Yawal TM 77 HI	18.14067	18.24078	IV	IV	III	–	II	48	–
	38.14067	38.24554 38.24555	IV	IV	III	–	II	48	–
Yawal TM 102 HI	07.14067	07.24054 07.24055	IV	IV	III	–	II	48	–

Outward opening

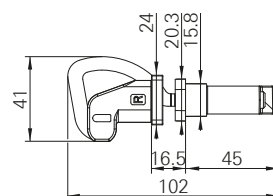
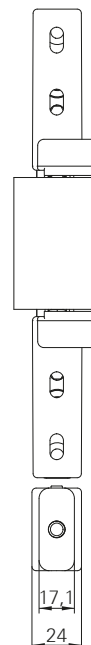
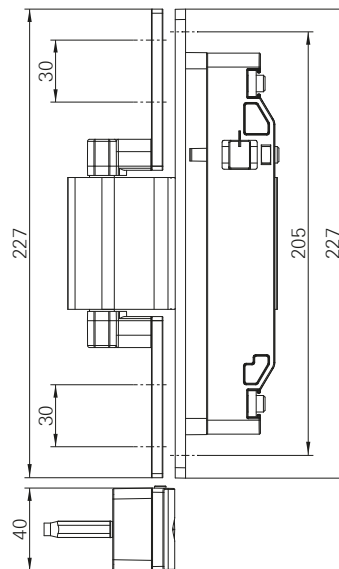
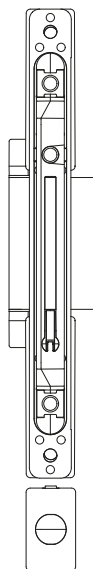
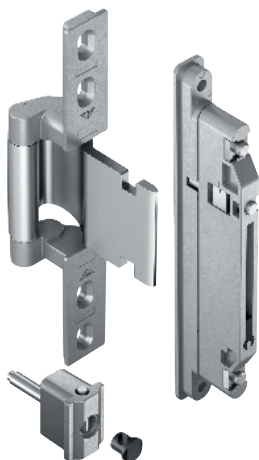
Marking	Translation
ADP HVM	Adapter for height adjustment module
BF-Set FL	Leaf mounting set
BF-Set RA	Frame mounting set
BLT	Hinge tab casing
FL-BD	Sash hinge
HVM	Height adjustment module
RA-BD	Frame hinge

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							
Aliplast Genesis	GN456 + GN011	GN425	IV	IV	III	II	I	III	–
		GN428 GN1625 GN1627							
	GN456 + GN012	GN425	IV	IV	III	IX	I	III	–
		GN428							
		GN1625 GN1627							
	GN456 + GN030	GN425	IV	IV	III	VIII	I	III	–
		GN1625							
	GN456 + GN031	GN425	IV	IV	III	II	I	III	–
		GN1625							
	GN456 + GN032	GN425 GN1625	IV IV	IV IV	III III	IX IX	I I	III III	– –
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 K518746X	IV	IV	III	V	I	III	–
		K518731X	IV	IV	III	III	I	III	–
	K518739X	K518742X K518746X	IV	IV	III	V	I	III	–

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 74 HI	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 77 HI	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 77 HI 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	–
	+	38.24569.x							
	18.11065.x								
	38.82021.x	38.24568.x	IV	IV	III	IV	IV	III	–
	+	38.24569.x							
	18.11077.x								
Yawal TM 102 HI	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 102 HI 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

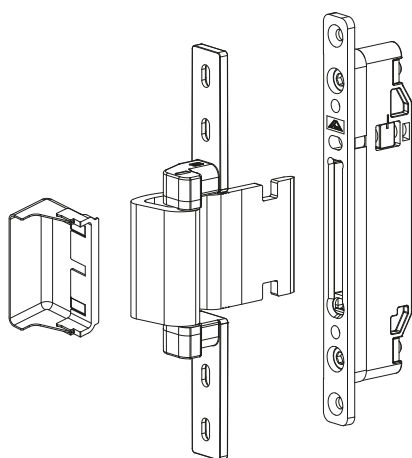


Security

- 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

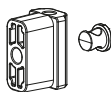


			Nº
Version IV	Silver	1 Set(s)	823272
	Black	1 Set(s)	823273

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



				Nº
Version II	incl. M8 blind rivet nut	Silver	1 Piece(s)	811101 ☐
		Black	1 Piece(s)	811100 ☐

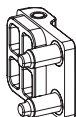


INFO

One height adjustment module is required per door.

One direct fixing screw is required for mounting the height adjustment module. → *from page 202*

Height adjustment module for outward opening doors



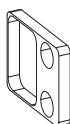
			Nº
Version III	Silver	1 Piece(s)	833602 ☐
	Black	1 Piece(s)	833603 ☐
Version V	Silver	1 Piece(s)	837771 ☐
	Black	1 Piece(s)	837772 ☐



INFO

One height adjustment module is required per door.

Height adjustment module adapter for outward opening doors

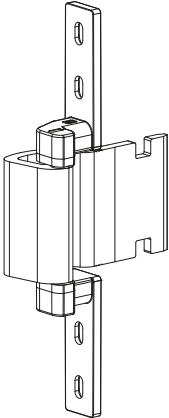


		Nº
Adapter for height adjustment module	1 Piece(s)	861242 ☐



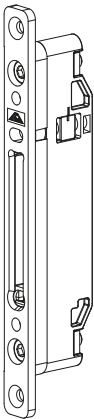
Individual components

Frame hinge



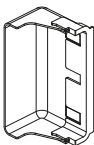
			Nº
Version IV	Silver	12 Piece(s)	828096
	Black	12 Piece(s)	828097
Version X	Black	12 Piece(s)	836735

Sash hinge



			Nº
Version IV	Silver	12 Piece(s)	811092
	Black	12 Piece(s)	811094

Hinge tab casing



					Nº
Subject to change		Roto Solid			CTL 88_EN_v2 - 12 / 2021 - 199
Version III	RAL 9005	R06.2	Jet black	12 Piece(s)	811102
Version V	RAL 9005	R06.2	Jet black	12 Piece(s)	835434

5.2.1 Accessories

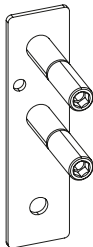
5.2.1.1 For inward opening elements

5.2.1.1.1 Sash hinge packing plate



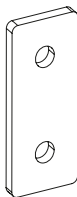
		Nº
1.5	12 Piece(s)	811489 ☐

5.2.1.1.2 Mounting plate



		Nº
44 - 55	1 Piece(s)	834249 ☐
55 - 66	1 Piece(s)	834260 ☐
66 - 77	1 Piece(s)	834261 ☐

5.2.1.1.3 Bracket adapter

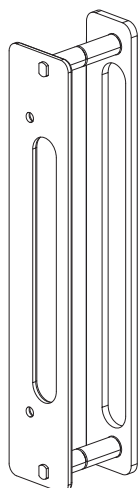




		Nº
2	24 Piece(s)	818534 

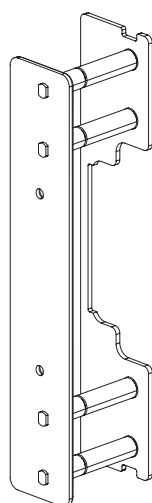
5.2.1.2 For outward opening elements

5.2.1.2.1 Attachment of sash hinge



		Nº
Version I	1 Piece(s)	840185 
Version II	1 Piece(s)	840186 
Version III	1 Piece(s)	840187 
Version IV	1 Piece(s)	840188 
Version V	1 Piece(s)	861241 
Version VI	1 Piece(s)	894223 

5.2.1.2.2 Attachment of frame hinge



			Nº
	Version II	1 Piece(s)	840164 ☐
	Version III	1 Piece(s)	840180 ☐
	Version IV	1 Piece(s)	840181 ☐
	Version V	1 Piece(s)	840182 ☐
	Version VI	1 Piece(s)	840183 ☐
	Version VII	1 Piece(s)	840184 ☐
	Version VIII	1 Piece(s)	858289 ☐
	Version IX	1 Piece(s)	858330 ☐
	Version X	1 Piece(s)	861218 ☐
	Version XI	1 Piece(s)	861219 ☐
	Version XII	1 Piece(s)	861240 ☐

5.2.1.2.3 Screw fixing



				Nº
Direct fixing screw for height adjustment module		35	10 Piece(s)	791920 ☐
		48	10 Piece(s)	823847 ☐
		63	10 Piece(s)	812473 ☐
		73	10 Piece(s)	823274 ☐



					Nº
Fixing screw 6.3x26		M6x25	Silver	500 Piece(s)	821604 ☐
C7.140 screw			Black	500 Piece(s)	821605 ☐

5.2.1.2.4 Blind rivet nut



			Nº
M6 blind rivet nut		500 Piece(s)	821603 ☐



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

		Nº
Installation set	1 Set(s)	813631

Locking wedge



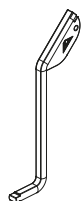
		Nº
Locking wedge	1 Piece(s)	796364

Anti-lifting device



		Nº
Anti-jemmy device	50 Piece(s)	816922

Combination tool



		Nº
Combination tool	1 Piece(s)	796363

5.2.2 Drawings

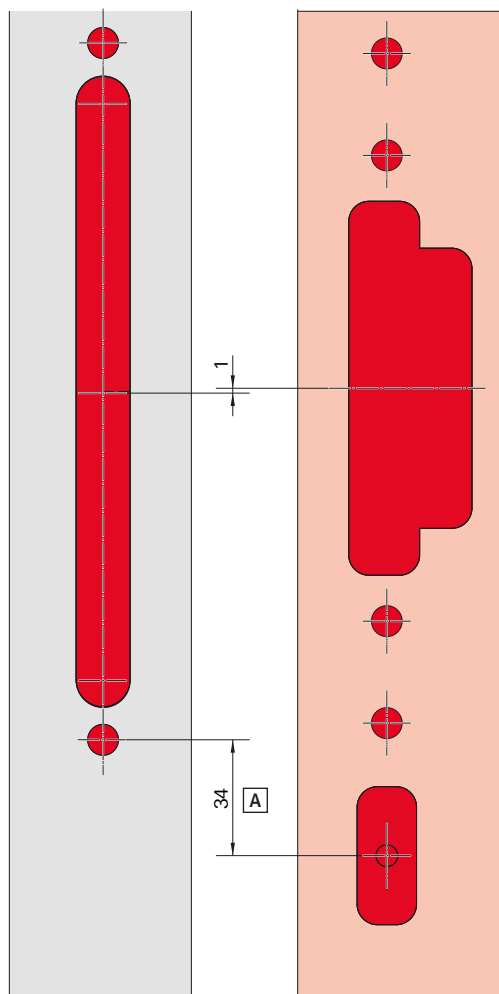
5.2.2.1 Drilling pattern



INFO

Example diagram.

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



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



Roto Frank
Fenster- und Türtechnologie GmbH

Wilhelm-Frank-Platz 1
70771 Leinfelden-Echterdingen
Germany

Phone +49 (0) 711 7598 0
Fax +49 (0) 711 7598 253
info@roto-frank.com

www.roto-frank.com

From a single source: Optimum hardware systems to meet all challenges

Roto Window	Hardware systems for windows and balcony doors
Roto Sliding	Hardware systems for large sliding windows and doors
Roto Door	Matching hardware technology everything about doors
Roto Equipment	Additional technology for windows and doors