



# Deventer Seals

Sealing profiles for windows and doors

## Deventer – Member of the Roto Group



The Deventer Group, based in Berlin and with subsidiaries in the Netherlands and in Poland, has been part of Roto Frank Holding AG, which is headquartered in Leinfelden-Echterdingen near Stuttgart, since 2016. Roto Frank Holding AG acts as a holding company across the three divisions of the Roto Frank Group – Roto Frank Fenster- und Türtechnologie (FTT), Roto Frank Dachsystem-Technologie (DST) and Roto Frank Professional Service (RPS). The three independent areas develop and produce hardware systems, roof windows and stairs for the construction industry and offer premium services relating to windows and doors.

As a leading specialist in seals and sealing profiles on windows and doors with seals made of thermoplastic elastomers (TPE), specific PVC formulations and silicone rubber with recognised high quality, Deventer is now part of Roto Frank Fenster- und Türtechnologie GmbH. The result of the interaction of hardware solutions and seal technology is a huge plus in terms of expertise – and consequently offers considerable added value for our customers. Close collaboration in a team enables the Roto Group to offer high-quality and harmonised system solutions. Our customers therefore benefit from an overall concept that goes from the versatile product range right up to the coordinated sales and logistics process.

## Company



For over 45 years, Deventer – which is now part of Roto Frank Fenster- und Türtechnologie GmbH – has been one of Europe's leading companies in the development and production of seals and sealing profiles for windows and doors. We are systematically developing our experience at three production sites – in Berlin, in the Netherlands and in Poland – in order to offer forward-looking and high-quality solutions.

As a reliable partner for industry and trade, we supply globally customised system solutions to meet the highest standards. Our customers benefit from our expertise in innovative development through proximity and technical consultation.

The most stringent quality criteria in all areas – research and development, production, sales and customer service – ensure that our seals and sealing profiles work perfectly at a consistently high level. Our customers' quality standards remains our absolute benchmark.

## Locations



### Germany

Deventer Profile GmbH  
Rauchstraße 42 B  
13587 Berlin  
+49 30 355907 0  
info@deventer-seals.com



### The Netherlands

Deventer Profielen BV  
Voorelf 75  
4824 GM Breda  
+31 76 541 6900  
info@deventer-seals.com



### Poland

Deventer Sp. z o.o.  
ul Gen. Stefana Grota-Roweckiego 187  
41-200 Sosnowiec  
+48 32 291 90 00  
info@deventer-seals.com

## german made

### What does that mean?



**DEVENTER**

Member of  
Roto Group

Deventer has been part of the Roto Group since 2016, and fully shares its values and visions.

These have already allowed us to go from an individual company to a European player. The value structure of our company is perfectly aligned with that of the Roto Group, and is based on the following three pillars:

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

As a technological pioneer, Deventer develops intelligent seal solutions that feature impressively high-quality raw materials, maximum recyclability and a 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 ensure 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”.



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# 1 Information

## 1.1 General



### INFO

All dimensions stated in millimetres. Other values are specified.

The following markings are used in this document.

### 1.1.1 Symbols

Symbol	Meaning
■	First-level list
□	Second-level list
→	(Cross) reference
▷	Result
▶	Unnumbered step
1.	Numbered step
a.	Numbered second-level step
⇒	Requirement

### 1.1.2 Explanation of the markings

Marking	Meaning
	Sash
	Sash add-on elements
	Frame
	Frame add-on elements
<b>1</b>	Item number
[1]	Legend



### 1.1.3 Pictographs

Symbol	Meaning
	Windows
	Sliding systems
	Doors
	Interior doors
	System solutions
	Accessories



## 1.1.4 Product features

Symbol	Meaning
	Cropping range
	Stop distance
	Description
	Installation position
	Turn-in curve (Steep = window sash or door leaf almost vertical when it comes into contact with the sealing profile head in end position; usually for visible hardware) (Flat = window sash or door leaf slides over the profile head in end position; usually for concealed hardware)
	Rebate height (for vertical sealing profiles, preferably in windows and balcony doors) Rebate width (for horizontal sealing profiles, preferably in door frames)
	Colour code in approximation with the RAL range of colours. <sup>[1]</sup>
	Colour in approximation with the RAL range of colours <sup>[2]</sup>
	Information
	Length
	Material number
	Groove width
	Groove depth
	Packaging unit
	Packaging type
	Raw material of the profile seal

[1] The colour values are only approximate values, as the granules used are not based on pigments in line with the RAL standard.

[2] The colour values are only approximate values, as the granules used are not based on pigments in line with the RAL standard.



## 1.1.5 Abbreviations

Abbreviation	Meaning
°C	Degrees Celsius
cm	Centimetres
CTL	Catalogue
DIN L / R	DIN left / right
EPDM	Ethylene propylene diene rubber / synthetic rubber
etc.	et cetera
SRH	Sash rebate height
m	Metres
Max.	Maximum
IS	Inner seal
Min.	Minimum
mm	Millimetres
mm <sup>2</sup>	Square millimetres
N/m	Newtons per metre
NPD	No performance determined <sup>[3]</sup>
Not sh.	Not shown
PVC	Polyvinyl chloride
RC	Resistance class
TPE	Thermoplastic elastomer / elastic synthetic material that can be deformed using heat
e.g.	For example

## 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.

[3] As windows and window systems are tested complete with installed sealing profiles for the purposes of the Declaration of Performance and CE marking, sealing profiles are rarely separately certified. Nevertheless, Deventer profiles and products embody maximum functionality, reliability and long-lasting performance.



## 1.2 Deventer Seals



### Seal technology for windows and doors

Perfect in both form and function – that is our motto, which is the basis for tailored solutions and customised requirements. We have been manufacturing seals in Berlin for over 40 years now, and we have acquired a considerable amount of expertise. Quality and continuous further development are at the forefront for us. Thanks to state-of-the-art production technology and close collaboration with our customers, we develop and produce seals that are often pioneers on the market. All operation steps, from the concept through development right up to production, take place under our roof. In close collaboration with certified test authorities, we can quickly respond to market and customer requirements, and are always working in accordance with the current sector-specific rules and standards.



## 1.2.1 Product overview



### Seals for windows

Deventer seals are suitable for a wide variety of international window and door systems made of timber, timber-aluminium, aluminium and PVC frame materials. The most stringent quality criteria in all areas – research and development, production, sales and customer service – ensure perfect functionality at a high level.

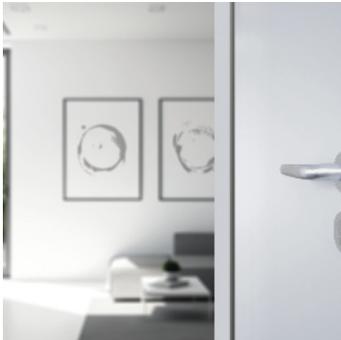
A wide range of seals includes the right solution for every window manufacturer.



### Seals for sliding systems

Lift&Slide doors or Lift&Slide windows are ideal for rooms that are designed to receive as much light as possible through their doors or windows, and consequently to be better lit.

Seals for Lift&Slide doors or Lift&Slide windows are made of a robust material like synthetic rubber (EPDM), silicone or thermoplastic elastomer, which is weather-resistant when exposed to sun, rain and snow. They are an effective way of preventing draughts, driving rain and dirt particles from entering.



### Seals for interior doors

Deventer seals for interior doors stand out from conventional sealing profiles due to their specific function, as they have uniquely gentle and convenient locking characteristics.

Deventer seals are suitable for door designs both with a favourable and with an unfavourable pivot point. They have excellent sound insulation properties and are ideal for industrial processing.



### Seals for other doors

Main entrance doors and apartment entrance doors must, in contrast to interior doors, meet particular requirements. Depending on the position and function, they offer privacy and protection against burglary, noise, cold, wind and other weather, and are used for the purpose of heat insulation and energy efficiency.

A wide range of seals for international door designs with the most varied requirements ensures the right solution for every situation, and stands out thanks to high functionality and universal processability.

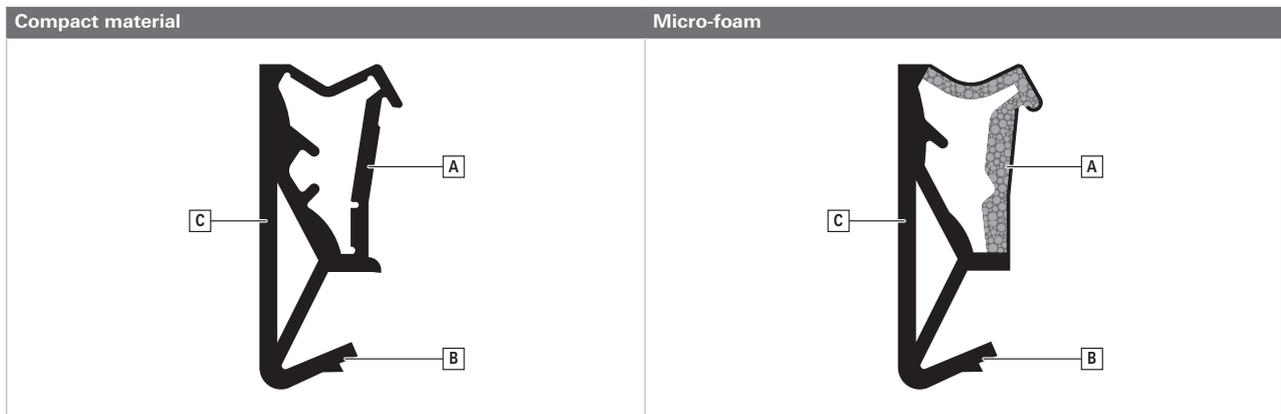


### Seals for system solutions

Deventer seals complete the coordinated system made up of a frame profile, window hardware and glazing blocks, and supplement it with good sealing against driving rain, moisture, air currents and noise. Both standard profiles and sealing profiles specially developed for the specific system are used here.

## 1.2.2 Seal structure

Numerous parameters like a combination of hard / soft materials, applied sliding films or protective films, expansion restrictors with different properties, various lubricants, different kinds of adhesive tape and compact or foamed profiles, as well as the combination of these parameters, will have a fundamental impact on the properties and possible applications of a seal.



### [A] Seal head

Functional area made of compact material or closed-cell micro-foam. Foamed areas can be wetted on the outer side with compact material in order to create a resistant surface. The material and shape in this area have a significant impact on:

- Closing pressure
- Tolerance compensation / working range
- Cold elasticity

### [B] Seal foot

Universal foot with one or more lips for a permanent fit in the profile, tailored to the width and depth of the profile groove. Thanks to a corresponding profile geometry, pre-tensioning can be carried out in the foot area. The seal is pressed flush against the profile rebate. Series of seals with a foamed seal foot are provided with a sliding film that ensures smooth installation by machine or by hand.

### [C] Seal back

Static area made of compact material. Frequently with a hard coating on the back for easy installation. With overexpansion protection for corner joints that are always exact in a notched frame design. VarioSoft sealing profiles can be installed either by notching or welding to the frame. Selected seal series are provided with adhesive tape on the back, which supports the seal foot (S 7392 A) or entirely replaces it (S 9216 A).

For exact cropping and completely draught-free installation of seals, we offer tailored processing devices as accessories.



### 1.2.3 Naming of Deventer products

Deventer products are named according to a uniform model, and the names are made up of the following four elements:

..

1. One to three uppercase letters as an identifier for the material used
2. One to four digits as an identifier of the product
3. One lowercase letter as an index for different versions of the product
4. One or more uppercase letter(s) as an identifier for a characteristic or assignment

Material	Identifier	Product number	Index	Identifier	Characteristic / assignment
Deventer Silikon	DS	1 – 9999	a – z	A	Adhesive tape
PVC	M			D	Double strand
TPE	S   SV			F	Fire protection
Foamed TPE	SP   SPV			G	With sliding support
				P	Paint protection
				R	Customer-specific
				MC	Master Corner

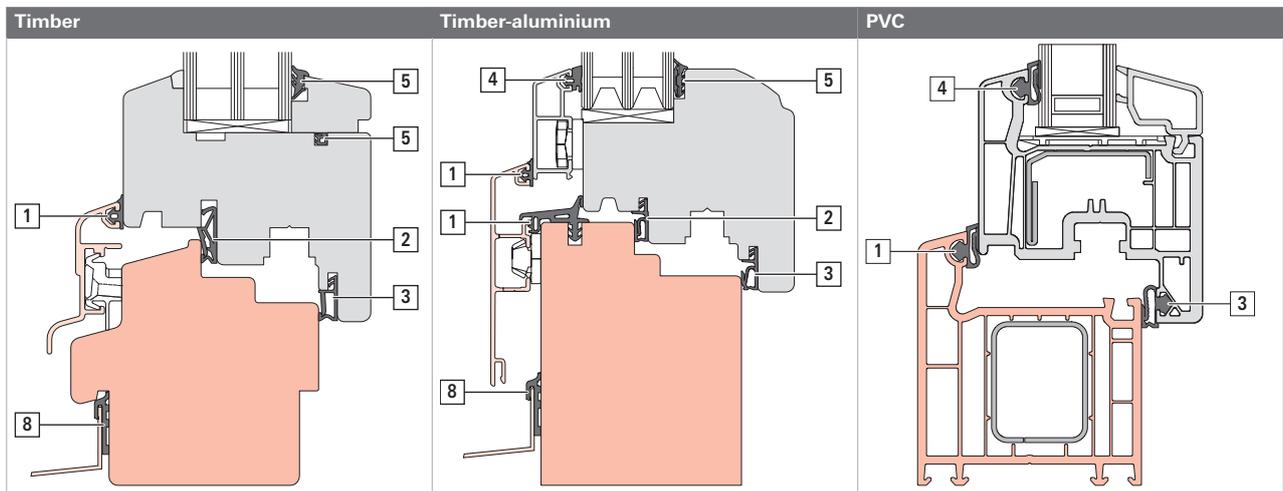
Examples: SV 2 | S 2586a G | S 5867 FA | DS 6922a

### 1.2.4 Seal types

The different application ranges of seal types are shown in the following sections. The focus here is on the installation position in each element and the designation of the seal type.

Seal types are named according to their installation position – in the frame and sash for windows and balcony doors; in the door frame and leaf for other doors. For some seal types, alternative sector-specific descriptions are common. These are also listed here. The quantity of gasket seals in the frame profile is based on the frame material. All gasket seals are not required for all of them.

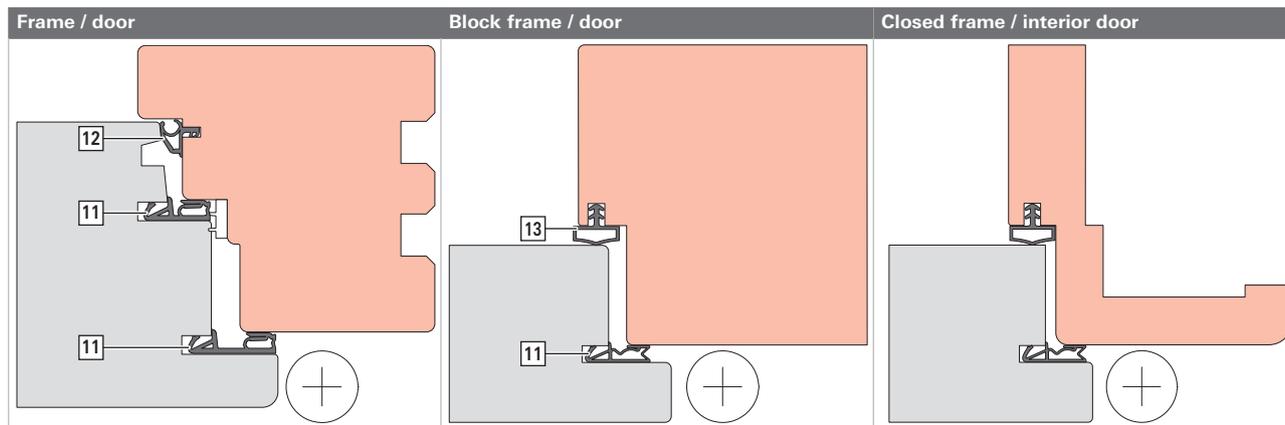
#### 1.2.4.1 Windows



Installation position	Description	Further descriptions
[1]	Stop seals, external	Frame seal
[2]	Inner seals	Sash rebate seal / frame seal
[3]	Stop seals, internal	Overlap seal
[4]	Glazing seals, external	–
[5]	Glazing seals, internal	–
[6]	Floating-mullion seals	–
[8]	Window sill seals	–

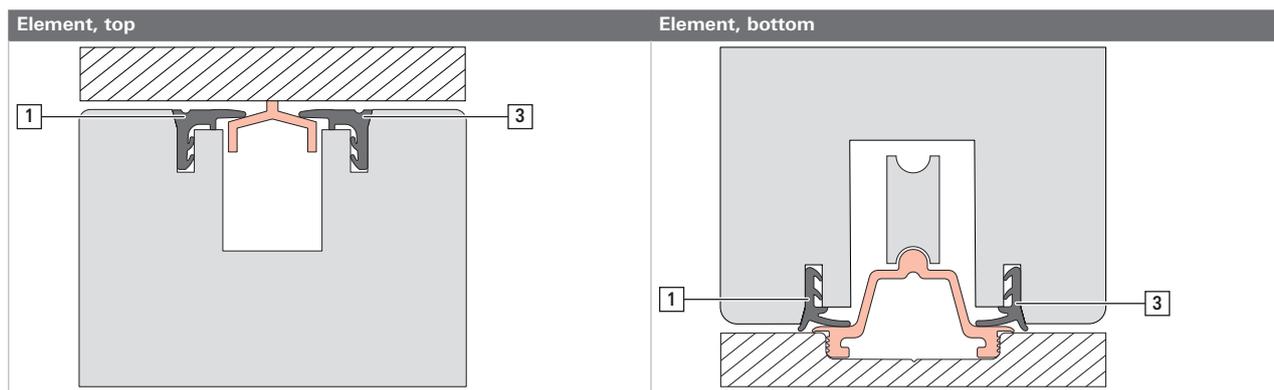


### 1.2.4.2 Doors



Installation position	Description	Further descriptions
[11]	Door leaf seal	Door rebate seal
[12]	Door frame seal	Frame seal
[13]	Block frame seal	—

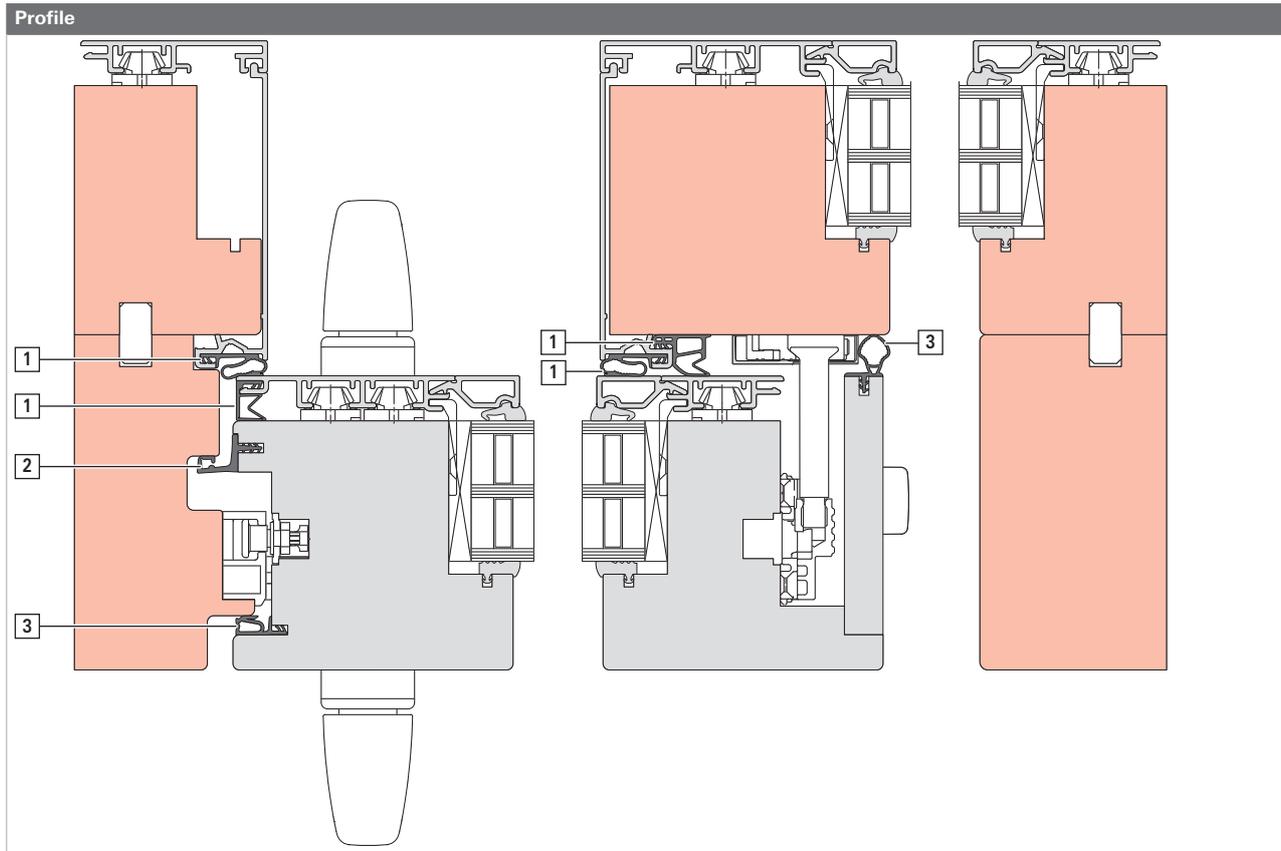
### 1.2.4.3 Sliding systems



Installation position	Description	Further descriptions
[1]	Stop seals, external	—
[2]	Inner seals	Sash rebate seals
[3]	Stop seals, internal	—



### 1.2.4.4 System solutions



Installation position	Description	Further descriptions
[1]	Stop seals, external	—
[2]	Inner seals	Sash rebate seals
[3]	Stop seals, internal	—

## 1.2.5 Raw materials

### Deventer Elastik | M

Solid material – soft PVC refined with *high-quality* aggregates. The raw material is resistant to ageing, weather, UV and ozone. Compatibility with coatings: the Deventer Elastik M raw material is compatible with DD varnishes, synthetic resin varnishes and acid-cured two-component varnishes. Exercise caution when using acrylic and alkyd resin coatings – observe the processing guidelines of the coating manufacturers. Do not use nitro coatings, nitro solvents or single-component coatings. The compatibility of unknown paints and coatings must be checked when in contact with sealing profiles.

### Deventer Purene S | SV, S

TPE – thermoplastic elastomer. It has outstanding mechanical and thermal properties, and is resistant to ageing, weather, UV and ozone. The raw material can be used in all areas of building construction. Compatibility with coatings: the Deventer Purene S raw material is compatible with water-dilutable acrylate coatings and conventional solvent-based alkyd resin coatings. The compatibility of unknown paints and coatings must be checked when in contact with sealing profiles.

### Deventer Porene S | SP

TPE – thermoplastic elastomer that is foamed up in the course of production. The closed cell structure of the foam enables higher tolerance compensation and ensures a soft and gentle closing pressure. It also has outstanding mechanical and thermal properties, and is resistant to ageing, weather, UV and ozone. The raw material can be used in all areas of building construction. Compatibility with coatings: the Deventer Porene S raw material is compatible with water-dilutable acrylate coatings and conventional solvent-based alkyd resin coatings. The compatibility of unknown paints and coatings must be checked when in contact with sealing profiles.

### Deventer Silikon | DS

Deventer Silikon is made of high-quality silicone rubber. The raw material is resistant to ageing, weather, UV and ozone. Compatibility with coatings: The Deventer Silikon raw material is compatible with water-dilutable acrylate coatings and conventional solvent-based alkyd resin coatings. The compatibility of unknown paints and coatings must be checked when in contact with sealing profiles.



Deventer Elastik   M	Deventer Purene S   SV, S	Deventer Porene S   SP	Deventer Silikon   DS
Modified PVC	TPE	Foamed-up TPE	Silicone
<b>Properties</b> [4]			
Good physical properties	Good physical and thermal properties		Excellent physical and thermal properties
Elastic recovery typical of the material	Good elastic recovery		Excellent elastic recovery
Locking characteristics typical of the material	Convenient locking characteristics	Soft and gentle locking characteristics	Gentle locking characteristics
Tolerance intake typical of the material	High tolerance intake		Very high tolerance intake
Temperature range from -20 °C to +60 °C	Temperature range from -40 °C to +180 °C		Temperature range from -60 °C to +250 °C
–	Can be used for smoke control doors according to DIN 18095		
Resistant to ageing, weather, UV and ozone			
–	Foam with a closed cell structure		–
<b>Application areas</b>			
For windows and balcony doors made of PVC	For windows and balcony doors made of timber, PVC, aluminium and timber-aluminium		
For interior doors	For interior doors and main doors		
–	Suitable for sound insulation and smoke control doors		
–	Suitable for sauna doors		
<b>Compatibility with coatings</b> [5]			
Polyurethane varnishes / DD varnishes			
Two-component epoxy resin varnishes			
Acid-cured varnishes where the PVC resistance is declared by the manufacturer	Acid-cured varnishes		
Chemically cross-linked stove enamel paints			
–	Alkyd resin varnishes and coatings		
–	Nitrocellulose coatings		
–	Solvent-based or water-dilutable acrylic varnishes and coatings		

## 1.2.6 Overview of the EN 12365 standard

### EN 12365 Parts 1 to 4

This is a classification of seals and seal profiles (otherwise known as weatherstripping). Classification is performed according to:

First digit	Second digit	Third digit	Fourth digit	Fifth digit	Sixth digit
Application range	Working range	Closing pressure	Temperature operating range	Elastic recovery	Long-term elastic recovery
G = glazing profile	1: < 1 mm	1: < 10 N/m	1: 0 °C to +45 °C	1: < 20%	1: < 20%
W = sealing profile	2: 1 – 2 mm	2: 10 – 20 N/m	2: -20 °C to +55 °C	2: 20 – 30%	2: 20 – 30%
	3: 2 – 4 mm	3: 20 – 50 N/m	3: -20 °C to +80 °C	3: 30 – 40%	3: 30 – 40%
	4: 4 – 6 mm	4: 50 – 100 N/m	4: -40 °C to +70 °C	4: 40 – 50%	4: 40 – 50%
	5: 6 – 8 mm	5: 100 – 200 N/m	5: 0 °C to +200 °C	5: 50 – 60%	5: 50 – 60%
	6: 8 – 10 mm	6: 200 – 500 N/m		6: 60 – 70%	6: 60 – 70%
	7: 10 – 15 mm	7: 500 – 700 N/m		7: 70 – 80%	7: 70 – 80%
	8: 15 – 30 mm	8: 700 – 1000 N/m		8: 80 – 90%	8: 80 – 90%
	8: > 30 mm	9: > 1000 N/m		9: > 90%	9: > 90%

The Deventer test laboratory is audited annually by ift Rosenheim (Institute for Window Technology) on a voluntary basis. This ensures professional classification of Deventer seals in line with EN 12365-1 to 4. The Deventer test laboratory is also validated through external monitoring by ift Rosenheim as per QM 338.

[4] The raw materials used by us are subject to the very highest quality standards. Upon request, we supply raw materials with specific properties (e.g. fire-resistant for fire protection doors). Tool compatibility must be checked in advance in each case.

[5] Comply with the processing guidelines of the coating manufacturers. The specifications on paint compatibility are used as a general guide and do not exempt you from your obligation to perform your own tests. If sealing profiles come into contact with unknown paints or coatings in your application, these must be checked to ensure that they are compatible.



**Product standard for sealing profiles**

The aim is to put in place a classification system for identifying the area of application and the performance of sealing profiles. The background is the CE marking of building elements that explains their properties. The objective: if the classification of the sealing profiles matches, nothing changes when it comes to the properties of the building element.

The following classification applies to a Deventer SP 7603 seal: **W 43243**

<b>W</b>	Sealing profile type	
<b>4</b>	4.2 mm	
<b>3</b>	49 N/m	
<b>2</b>	-20 °C to +55 °C	
<b>4</b>	63.88%	
<b>3</b>	51.1%	

First digit: W for sealing profile, with dynamic loading

Second digit: 9.2 mm (head width) - 5 mm (stop distance) = 4.2 mm (working range)

Third digit: Closing pressure 49 N/m. Closing pressure is measured by: slowly closing to the installation dimension once. Open the measuring device. Slowly close to the installation dimension again and measuring the closing pressure after 30 s. The closing pressure is therefore approx. 20% below the values we measured.

Fourth digit: The permissible temperature operating range is between -20 °C and +55 °C. It is checked according to the working temperature that is to be expected in the application (timber window).

Fifth digit: Measure the head width. Profile is compressed to stop distance and stored at the maximum working temperature for one day. Condition the profile at room temperature for 2 h, relieve the load on the profile and measure the head width after 24 h. Elastic recovery =  $[1 - (\text{head width before} - \text{head width after}) / \text{working range}] * 100$ . For the SP 7603 seal =  $[1 - (9.2 \text{ mm} - 7.683 \text{ mm}) / 4.2 \text{ mm}] * 100 = 63.88\%$ .

Sixth digit: Long-term elastic recovery is determined using a tube with an external diameter of 15 mm and a wall thickness of 3 mm. Compress the tube to 9 mm (working range = 6 mm) and store it at the maximum working temperature for 21 days. Condition the profile at room temperature for 2 h, relieve the load on the profile and measure after 24 h. Elastic recovery stated in per cent as above, e.g. 51.1%

*As of March 2006*



## 1.3 Storage conditions



### **Protecting components against dirt and dust**

Always keep the containers closed, and always cover open 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 products against direct humidity and wetness**

The packaging must remain dry and the seals 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 it is 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 let the containers dry again. The seals should not be expected to be damaged, but they should be checked for contamination.



## 1.4 Environment



### Environmental compatibility of seals

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

### Environmental compatibility of 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 and elastomer cord, as well as reusable packaging, such as reusable boxes from Schäfer, pallet crates and EURO wooden pallets.

The cardboard boxes we use already consist of 100% recycled material and must, of course, be recycled (using the "dual system" in Germany).

### Environmental compatibility of disposal

Our seals consist of single-origin materials. An effort should be made to recycle materials as synthetic materials. If this is not possible, seals can be recycled in an environmentally friendly way.

### Returning packaging material

Cardboard boxes with the INTERSEROH logo are accepted free of charge by every INTERSEROH disposal partner. The directory of your local disposal partners can be requested nationwide from headquarters of ISD INTERSEROH GmbH in Cologne using the following telephone number: +49 2203 9147-322.

The Deventer INTERSEROH number is 230667.

# 1.5 Certifications

## 1.5.1 Institute for Window Technology (ift)

### Seals and sealing profiles – QM 338

<b>Zertifikat / Certificate</b>		
Zertifikatsnr. / Certificate No.: 593-7011541-1-9		
<b>Dichtungen und Dichtungsprofile</b> <i>Gaskets and weatherstrippings</i>		
<b>Material</b> <i>material</i>	<b>Silikon, TPV, TPE und TPS</b>	<p><b>Grundlage(n) / Basis:</b> ift-Zertifizierungsprogramm für Dichtungen und Dichtungsprofile <i>ift-certification scheme for gaskets and weatherstrippings (QM 338)</i> Ausgabe / Issue 2018</p> <p>EN 12365 </p> <p><b>Dauerhaftigkeit</b> <i>durability</i> Klasse 3</p> <p><b>Wirkungsbereich</b> <i>working range</i> Klasse 3</p> <p><b>Schleiddruck</b> <i>compression force</i> Klasse 5</p> <p><b>Einsatztemperaturbereich</b> <i>working temperature range</i> Klasse 2</p>
<b>Einsatzbereich</b> <i>field of application</i>	<b>Flügelabdichtung in Fenster und Außentüren gemäß EN 14351-1:2006 +A2:2016</b> <i>Sash rebate gasket for windows and pedestrian doorsets according EN 14351-1</i>	
<b>Hersteller</b> <i>manufacturer</i>	<b>Deventer Profile GmbH</b> Rauchstr. 42b, DE 13587 Berlin	
<b>Produktionsstandort</b> <i>production site</i>	<b>7011541, 9005332, 6020341</b>	
<p>Mit diesem Zertifikat wird bescheinigt, dass das benannte Bauprodukt den Anforderungen des zugrundeliegenden ift-Zertifizierungsprogramms in der aktuellen Fassung entspricht.</p> <p>Die Erstellung von Produktfamilien des aufgeführten Bauproduktes und Erprobung durch eine akkreditierte Prüfstelle nach EN 12365:2003</p> <p>Einführung und Aufrechterhaltung einer werkseitigen Produktionskontrolle durch den Hersteller</p> <p>Erstinspektion des Werkes und der werkseitigen Produktionskontrolle durch ift-Q-Zert</p> <p>kontinuierliche Fremdüberwachung des Werkes und der werkseitigen Produktionskontrolle durch ift-Q-Zert</p> <p>Entnahme von Proben im Werk nach festgelegtem Stichprobenplan durch ift-Q-Zert und Prüfung im ift-Labor</p> <p>Dieses Zertifikat wurde erstmals am 20.03.2008 ausgestellt und gilt 3 Jahre, wenn sich zwischenzeitlich die Festlegungen in der oben angeführten technischen Spezifikation oder die Herstellungsbedingungen im Werk oder in der werkseitigen Produktionskontrolle selbst nicht wesentlich verändert haben.</p> <p>Das Zertifikat darf nur unverändert vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Q-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen.</p> <p>Das Unternehmen ist berechtigt, das benannte Bauprodukt gemäß der ift-Zeichensetzung mit dem „ift-zertifiziert“-Zeichen zu kennzeichnen.</p> <p>Dieses Zertifikat enthält 2 Anlagen.</p>		<p>This certificate attests that the building product mentioned fulfils the requirements of the underlying ift-certification scheme in its current version.</p> <p>completion of product families of the building product listed and initial type-testing by an accredited testing body as per EN 12365:2003</p> <p>implementation and maintenance of a factory production control by the manufacturer</p> <p>initial inspection of the production site and the factory production control by ift-Q-Zert</p> <p>continuous third-party control of the production site and the factory production control by ift-Q-Zert</p> <p>taking of samples at the production site according to defined sampling plan by ift-Q-Zert and testing at the ift-laboratory.</p> <p>This certificate was first issued on 20.03.2008 and will remain valid for 3 years, as long as neither the conditions laid down in the technical specification listed above nor the manufacturing conditions in the production site nor the factory production control itself are modified significantly.</p> <p>The reproduction of the certificate without any change from the original is permitted. Any changes to the prerequisites applicable to certification shall be immediately communicated in writing to ift-Q-Zert accompanied by the necessary evidence.</p> <p>The company is authorized to affix the "ift-certified"-mark to the building product mentioned according to the ift-rules for use of the "ift-certified"-mark.</p> <p>This certificate contains 2 annexes.</p>
<p><b>ift Rosenheim</b> 05.02.2022</p> <p><b>Gültig bis / Valid until:</b> 04.02.2025</p> <p><b>Vertragsnr. / Contract No.:</b> 593 7011541</p>		<p><b>ift Rosenheim</b> ZERTIFIZIERT CERTIFIED</p> <p><b>Identitäts-Check</b> <i>identity check</i></p> <p></p> <p>www.ift-rosenheim.de/ ift-zertifiziert ID: D4F-2437C</p>
<p><b>ift Rosenheim GmbH</b> Theodor-Geil-Straße 7-6 D-82033 Rosenheim</p> <p><b>Kontakt</b> Tel: +49 89 2831 281-0 Fax: +49 89 2831 261-300 www.ift-rosenheim.de</p> <p><b>Prüfung und Kalibrierung – DIN ISO/IEC 17025</b> Institut – EN ISO/IEC 17020 Zertifizierung Produkte – DIN ISO/IEC 17025 Zertifizierung Managementsysteme – EN ISO/IEC 17021</p> <p><b>Bank für Bayern</b> Bank für Bayern AG Bay 11</p> <p><b>DakkS</b> Deutsches Institut für Zertifizierung 52-1345-0-36</p>		

The sales employee responsible for your region can provide you with up-to-date certificates, or you can download them directly from the website of ift Rosenheim.



## 1.5.2 Quality management

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

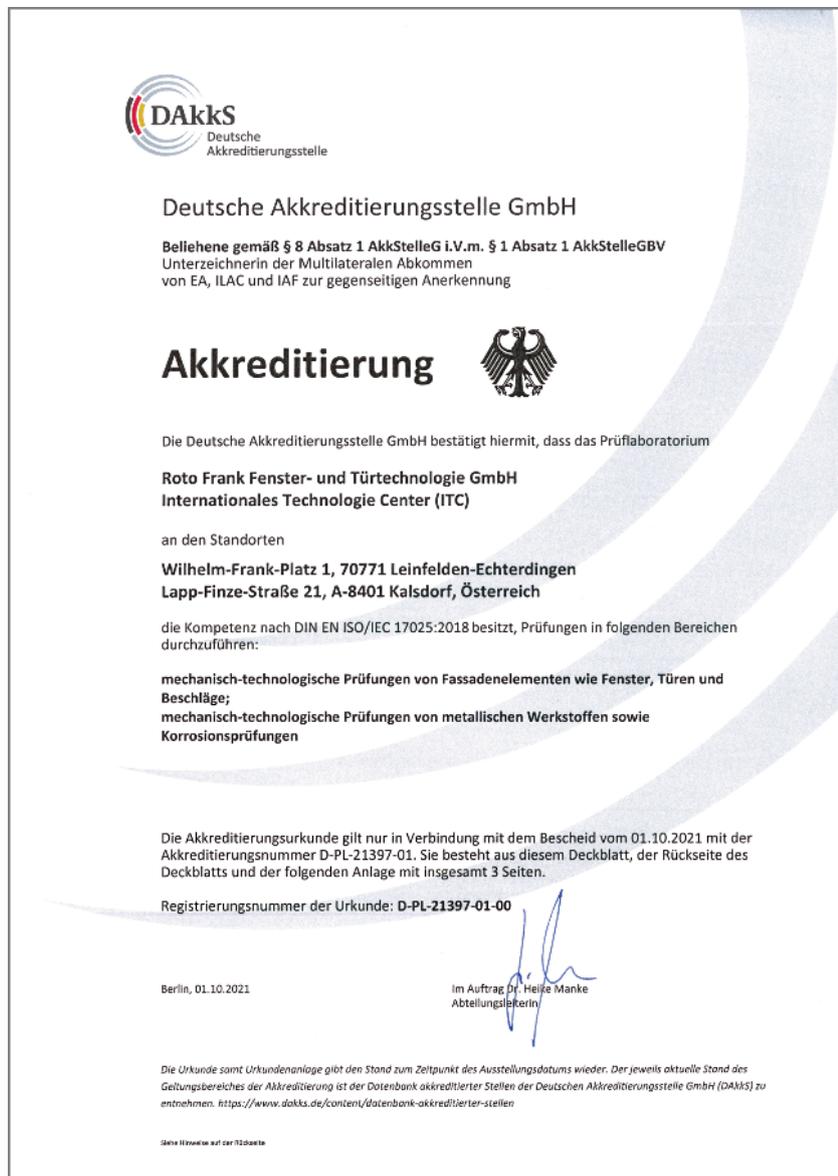
The certification is an external indication of the quality awareness practised at Deventer –

- the company aims to ensure continuous product and service improvements for the benefit of its customers.
- Deventer offers its customers innovative, environmentally friendly and technically sophisticated seals and sealing profiles.
- Deventer products are supplied punctually worldwide with consistently high quality.
- The Deventer comprehensive view of Deventer regards all business activities – including all the activities within the company – to be the key to achieving long-term corporate success.
- Deventer employees are supported in their personal development and fulfil the high quality requirements of Deventer in their day-to-day work. Their work is performance and goal-oriented.

Certificate		 ROSENHEIM
Certificate-No.: 791IFT-7011541-1-1		
<p><b>Subject</b>  <b>Quality Management System DIN EN ISO 9001:2015</b></p> <p><b>Company (Headquarters)</b>  <b>Deventer Profile GmbH</b>  <b>Rauchstr. 42b</b>  <b>DE - 13587 Berlin</b></p> <p><b>Scope of the headquarters</b>  <b>Development, production and sales of gaskets / weatherstrips</b></p> <p><b>Further sites</b></p> <p><b>Inter-Deventer Sp.z.o.o</b>                  ul. Gen. Stefana                  Grota-Roweckiego 187                  PL - 41-200 Sosnowiec</p> <p><b>Deventer Profielen BV</b>                  Voorelf 75                  NL - 4824 GM Breda</p> <p><b>Scopes of the sites</b></p> <p>Development, production and sales of gaskets / weatherstrips</p> <p>Development, production and sales of gaskets / weatherstrips</p> <p><b>Rules for sites certification</b>                  This Certificate has been issued on the basis of the rules for sites certification. The higher ranking company (headquarters) is responsible for the maintenance and further development of the management system as well as the control of central tasks.</p> <p><b>Basis</b>                  During the certification audit it was demonstrated that the company and all sites listed in this Certificate have established and are applying a management system that covers the specified scope.</p> <p><i>Jörn P. Lass</i>                  Prof. Jörn P. Lass                  Director of Institute</p> <p><i>Christian Kehrer</i>                  Christian Kehrer                  Head of Certification and Surveillance Body</p> <p><b>ift Rosenheim</b>                  29.08.2021</p> <p><b>Certification Audit:</b> August 2021  <b>Contract No.:</b> 791 7011541  <b>Valid until:</b> 28.08.2024</p> <p style="font-size: small;">VIA-ZP-0243-en (01.08.2021)                  02417</p>	<p><b>Basis:</b>                  ISO 9001</p> <p></p> <p><b>Validity</b>                  The certificate is valid for three years. During the time the company is surveyed annually. The certificate is only valid in combination with the accompanying certification and surveillance contract. If O-Zert shall be informed immediately in writing of all changes to the qualifications for certification and supplied with copies of all resulting new management documents.</p> <p><b>Notes on Publication</b>                  The certificate shall only be reproduced unchanged. Regulations for the use of reports are given in the <i>Allgemeine Bedingungen für die Zertifizierung von Managementsystemen</i>.</p> <p>The company is entitled to use the "ift certified" mark in accordance with the Ift "Zeichensatzung" (Rules on the use of the Ift-mark).</p> <p>                  ZERTIFIZIERT                  CERTIFIED</p> <p></p> <p>www.ift-rosenheim.de</p>	
ift Rosenheim GmbH    Contact: Phone: +49 8261 368-0 Fax: +49 8261 391-220 www.ift-rosenheim.de    Trading and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021    ift cert GmbH 0752    ift cert BGF 18    IAF    DAKKS		

### 1.5.3 International Technology Centre (ITC)

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



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

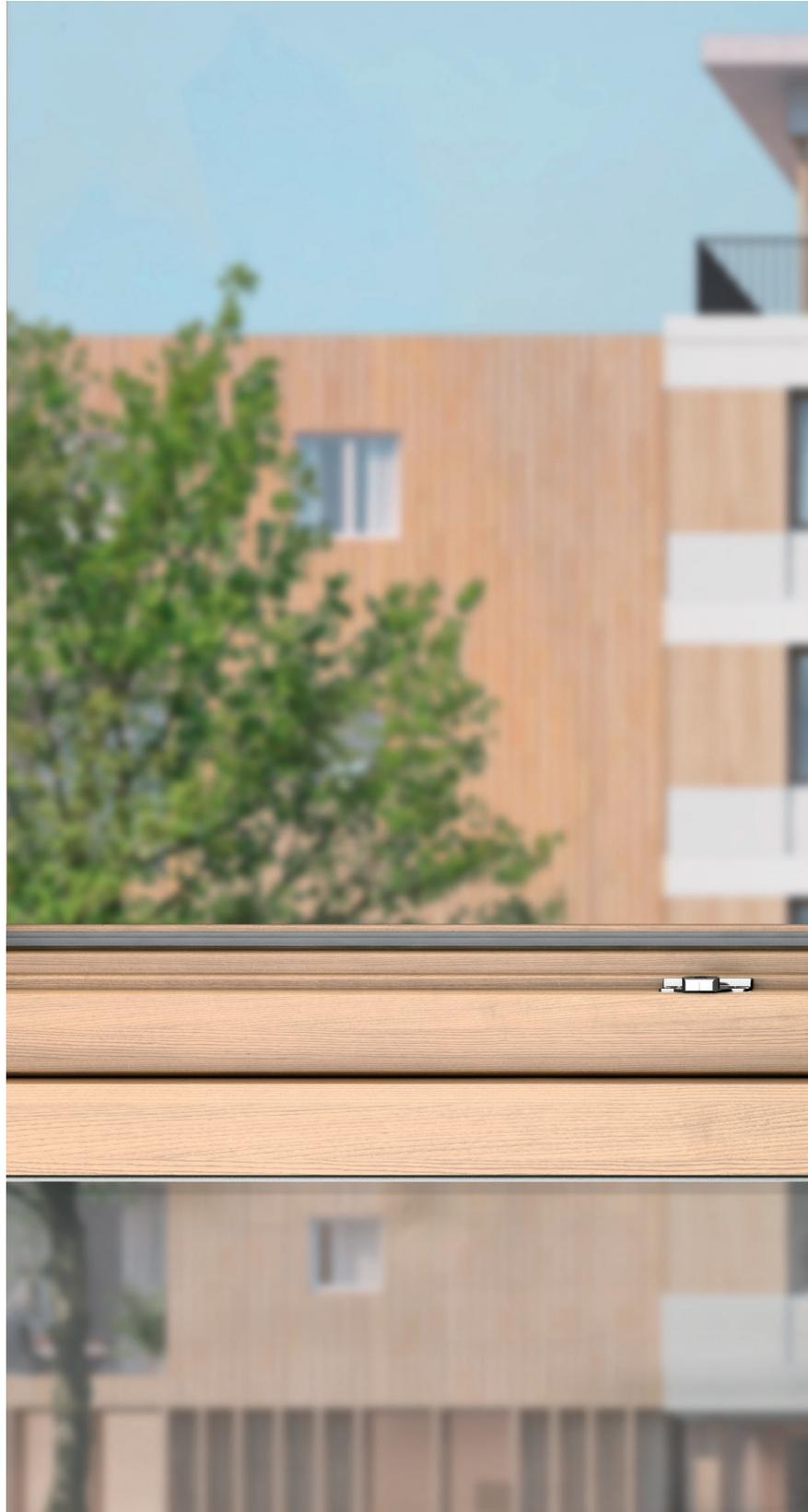
Achieving accreditation in accordance with DIN EN ISO / IEC 17025 represents the highest distinction for a test institute in the private sector. The requirements for this are an extensive quality management system, trained personnel, high-quality test rigs and measuring instruments, as well as continuous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



## **1.6 Contact**



**Deventer  
Profile GmbH**  
Rauchstraße 42 B  
13587 Berlin  
Germany  
Phone +49 30 355907 0  
info@deventer-seals.com  
www.deventer-seals.com







**Timber**

Inner seals   Sash rebate seals	34
Floating-mullion seals	49
Internal stop seals   Overlap seals	65
External stop seals   Frame seals	78
Internal glazing seals	85
Renovation seals	97
Window sill seals	116

**Timber-aluminium**

External stop seal   Frame seal	122
Floating-mullion seals	129
Inner seals   Sash rebate seals	145
Internal stop seals   Overlap seals	160
Frame seals	173
Internal glazing seals	180
External glazing seals	191
Window sill seals	198

**PVC**

External stop seals	204
External glazing seals	208
Internal stop seals	211
Window sill seals	215

## 2 Windows



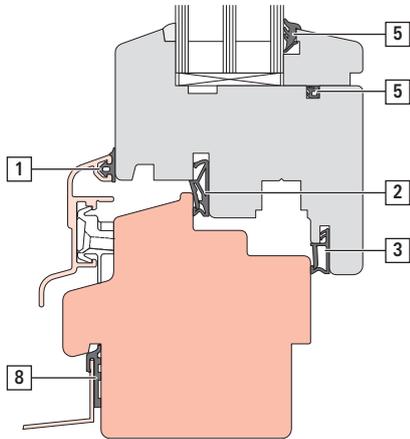
Deventer seals are suitable for a wide variety of international window and door systems made of timber, timber-aluminium, aluminium and PVC frame materials. The most stringent quality criteria in all areas – research and development, production, sales and customer service – ensure perfect functionality at a high level.



## 2.1 Timber

### Seals for windows and balcony doors made of timber

A wide range of seals for international window designs with the most varied requirements ensures the right solution for every window manufacturer. The new sealing profile generation made of high-quality TPE foam promises reliable sealing and insulation in your window system.



### Example of use

Installation position of the seal	Example seal, type and function	Profile image
1	<b>S 6647</b> Stop seal, external, for 1 mm stop distance. This seals the joint of the window sash and window frame against each other.	
2	<b>SP 125</b> Inner seal with universal foot for a variety of systems. This seals both the window sash and the frame against the window frame.	
3	<b>SP 103a</b> Stop seal, internal, for 10 mm rebate height, 6 mm stop distance and 3 x 5 mm groove. Seals windows and frames against humid outside air / moisture.	
5	<b>S 6867</b> Seal for sealing the joint under the glazing bead	
5	<b>SV 2</b> Glazing seal, internal, for 4 mm stop distance. Seals the outside of the glass panel to prevent rain and moisture entering.	
8	<b>S 7702</b> Window sill seal for reliably connecting the window sill to the frame	

### Advantages

- High tolerance compensation ensures sealing over the entire window sash
- Minimal build-up of closing pressure for effortless locking and unlocking of windows
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality window products

### 2.1.1 Inner seals | Sash rebate seals

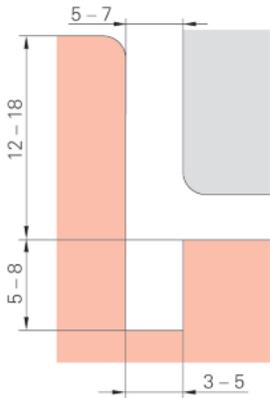
The inner seal, also known as a sash rebate seal in timber elements, is a seal type that is attached in the centre of the window profile in order to ensure that the sealing between the movable window sash and the rigid window frame is as airtight as possible. The seal is attached in a groove either to the window sashes or in the centre of the frame. When a window sash is closed, the seal presses against the frame. The design of the seal with its special shape ensures uniform pressure distribution and reliable sealing. Closing noises are reduced and the gap between the sash and frame is sealed.

Inner seals for windows can be made of various materials, such as synthetic rubber (EPDM), silicone or compact / foamed TPE. They are an important component when it comes to the energy efficiency of windows, as they can help reduce heat loss through points that lack a tight seal. They prevent draughts and unwanted moisture from entering, and contribute to sound insulation as well as to the creation of a more comfortable room climate and living environment.





### 2.1.1.1 Inner seals | Sash rebate seals



**SV 105** → 36



**SP 7603** → 37



**S 7503b** → 38



**SP 125** → 39



**SV 125** → 40



**S 6624** → 41



**SP 1212d** → 42



**SP 7612** → 43



**S 6512a** → 44



**SP 7715** → 45



**S 6515a** → 46

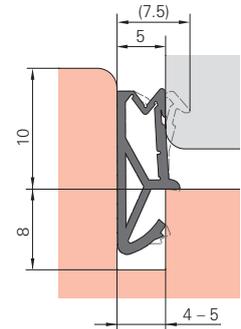


**SP 7718** → 47



**S 6518a** → 48

2.1.1.2 SV 105



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W34252
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

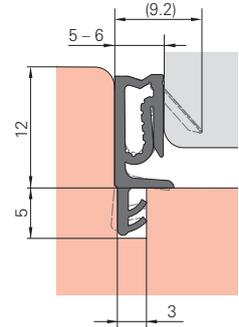
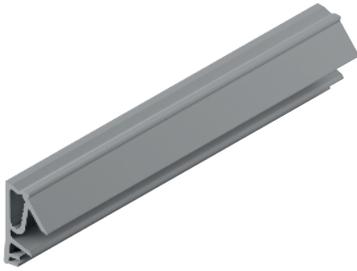
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	10	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827543
						RAL 9016	Traffic white	TPE	150 m	Spool	827541
						RAL 8014	Sepia brown	TPE	150 m	Spool	827542



### 2.1.1.3 SP 7603



#### Product description

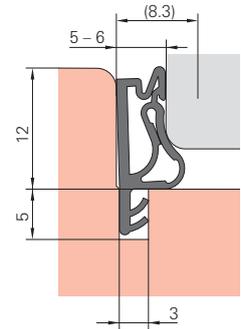
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W43243
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	820899
						RAL 7015	Slate grey	TPE	150 m	Spool	820898
						RAL 7040	Window grey	TPE	150 m	Spool	827522
						RAL 9016	Traffic white	TPE	150 m	Spool	827521
						RAL 8014	Sepia brown	TPE	150 m	Spool	827524
					RAL 1001	Beige	TPE	150 m	Spool	827520	

2.1.1.4 S 7503b



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

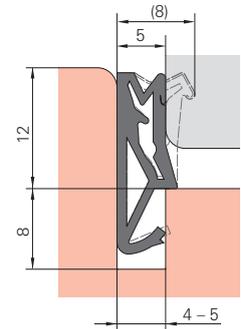
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Minimal build-up of closing pressure
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	826842
						RAL 7040	Window grey	TPE	150 m	Spool	820996
						RAL 7015	Slate grey	TPE	150 m	Spool	821672
						RAL 9016	Traffic white	TPE	150 m	Spool	826843
						RAL 8014	Sepia brown	TPE	150 m	Spool	818252
						RAL 1001	Beige	TPE	150 m	Spool	798850



### 2.1.1.5 SP 125



#### Product description

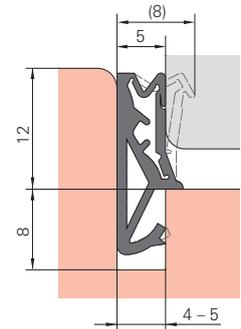
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W36243
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	808769
						RAL 7015	Slate grey	TPE	150 m	Spool	826987
						RAL 7040	Window grey	TPE	150 m	Spool	810992
						RAL 9016	Traffic white	TPE	150 m	Spool	826989
						RAL 8014	Sepia brown	TPE	150 m	Spool	823315
						RAL 1001	Beige	TPE	150 m	Spool	826985

2.1.1.6 SV 125



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

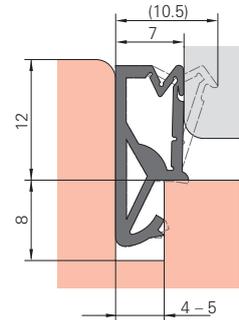
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Can be combined with existing floating-mullion solutions

8	4 – 5	12	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	826983
						RAL 7015	Slate grey	TPE	150 m	Spool	826981
						RAL 7040	Window grey	TPE	150 m	Spool	798853
						RAL 9016	Traffic white	TPE	150 m	Spool	826984
						RAL 8014	Sepia brown	TPE	150 m	Spool	826982
						RAL 1001	Beige	TPE	150 m	Spool	826979



2.1.1.7 S 6624



**Product description**

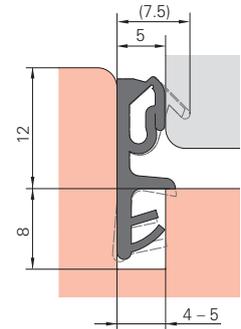
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W34242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	7	Steep	Top Bottom Left Right Sash	RAL 9004 RAL 9016	Signal black Traffic white	TPE TPE	120 m 120 m	Spool Spool	827491 827490

2.1.1.8 SP 1212d



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

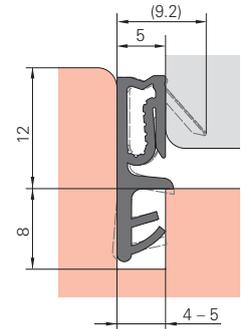
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827532
						RAL 7015	Slate grey	TPE	150 m	Spool	827529
						RAL 7040	Window grey	TPE	150 m	Spool	827530
						RAL 9016	Traffic white	TPE	150 m	Spool	827533
						RAL 8014	Sepia brown	TPE	150 m	Spool	827531
						RAL 1001	Beige	TPE	150 m	Spool	827853



2.1.1.9 SP 7612



**Product description**

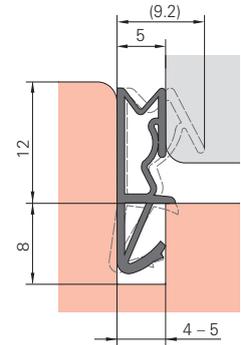
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W43233
- Operating force: EN 13115 – Class 3
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827511
						RAL 7015	Slate grey	TPE	150 m	Spool	827498
						RAL 7040	Window grey	TPE	150 m	Spool	827510
						RAL 9016	Traffic white	TPE	150 m	Spool	827508
						RAL 8014	Sepia brown	TPE	150 m	Spool	827594
						RAL 1001	Beige	TPE	150 m	Spool	827509

2.1.1.10 S 6512a



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: welding
- Classification: EN 12365-1 – W46222
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

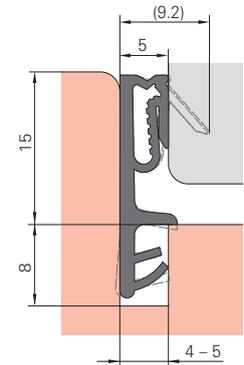
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

-	-	-	-	-	-	RAL 9004	Signal black	-	180 m	Pane	798549
4 – 5	8	12	5	Steep	Top	RAL 7015	Slate grey	TPE	180 m	Pane	827708
					Bottom	RAL 7040	Window grey	TPE	180 m	Pane	798547
					Left	RAL 9016	Traffic white	TPE	180 m	Pane	798550
					Right	RAL 8014	Sepia brown	TPE	180 m	Pane	798548
					Sash	RAL 1001	Beige	TPE	180 m	Pane	798546



### 2.1.1.11 SP 7715



#### Product description

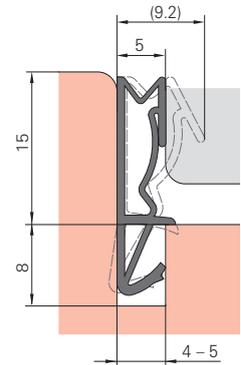
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	15	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	100 m	Spool	827267
						RAL 7015	Slate grey	TPE	100 m	Spool	827266
						RAL 7040	Window grey	TPE	100 m	Spool	827262
						RAL 9016	Traffic white	TPE	100 m	Spool	827264
						RAL 8014	Sepia brown	TPE	100 m	Spool	827707
						RAL 1001	Beige	TPE	100 m	Spool	827265

2.1.1.12 S 6515a



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W46232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

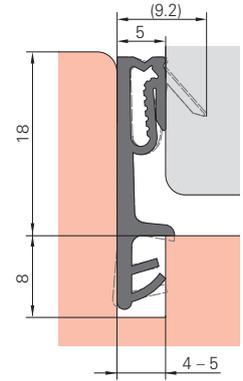
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	15	5	Steep	Top Bottom Left Right Sash	RAL 9004 RAL 7015 RAL 7040 RAL 9016 RAL 8014 RAL 1001	Signal black Slate grey Window grey Traffic white Sepia brown Beige	TPE TPE TPE TPE TPE TPE	144 m 144 m 144 m 144 m 144 m 144 m	Pane Pane Pane Pane Pane Pane	798554 798697 798552 798555 798553 798551



2.1.1.13 SP 7718



**Product description**

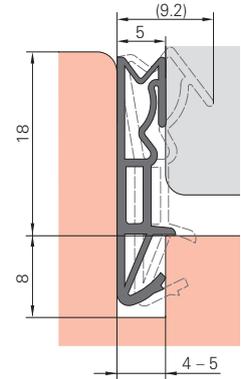
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	18	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	125 m	Spool	827538
						RAL 7015	Slate grey	TPE	125 m	Spool	827757
						RAL 7040	Window grey	TPE	125 m	Spool	827537
						RAL 9016	Traffic white	TPE	125 m	Spool	827539
						RAL 8014	Sepia brown	TPE	125 m	Spool	827690
						RAL 1001	Beige	TPE	125 m	Spool	827540

2.1.1.14 S 6518a



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W45232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	18	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	126 m	Pane	798800
						RAL 7015	Slate grey	TPE	126 m	Pane	826363
						RAL 7040	Window grey	TPE	126 m	Pane	826397
						RAL 9016	Traffic white	TPE	126 m	Pane	798801
						RAL 8014	Sepia brown	TPE	126 m	Pane	798802
						RAL 1001	Beige	TPE	126 m	Pane	798807



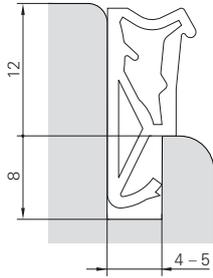
### 2.1.2 Floating-mullion seals

Sealing the floating-mullion area in double-sashed windows and balcony door designs is a challenge. Special sealing profiles are used here in conjunction with Deventer sash rebate seals. The floating-mullion profile is particularly important in the area of the overlap seal in order to reduce the ingress of warm and humid room air into the hardware rebate. This largely prevents condensation.

The seal usually consists of a flexible material like synthetic rubber (EPDM) or compact / foamed TPE. When the window sash is closed, it presses against the opposite sash frame in order to ensure that it is sealed against air and water. This prevents draughts, noise and moisture getting into the room. A well-functioning floating-mullion seal is important for increasing the energy efficiency of a window and for keeping the room climate comfortable.



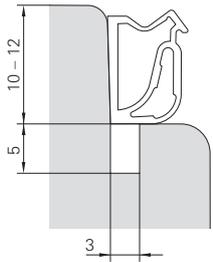
### 2.1.2.1 Floating-mullion seals



VESU-12 → 53



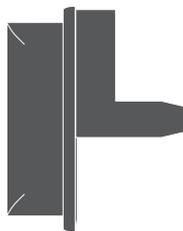
VESU-19 → 54



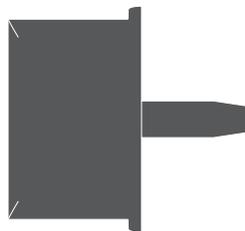
VES 3 → 55



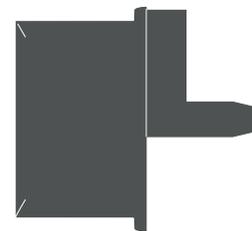
VES 3-1210 → 56



VES 3a-1210 → 57



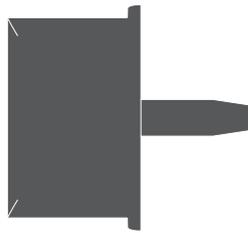
VES 3-1218 → 58



VES 3a-1218 → 59



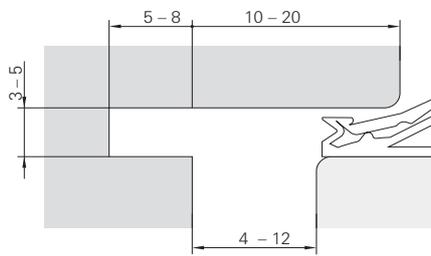
**VES 3-1210** → 56



**VES 3-1218** → 58



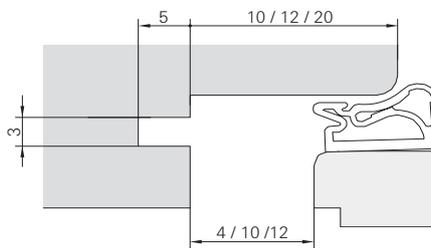
**S 6518a** → 48



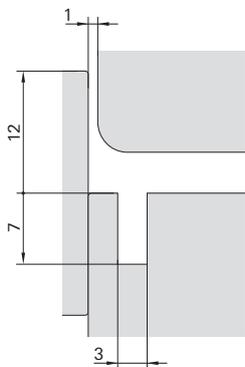
**S 6600e** → 60



**S 6544** → 61

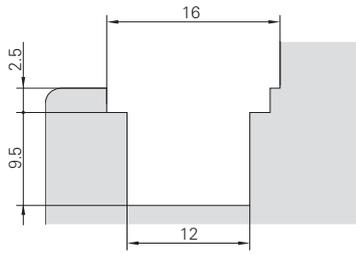


**S 7583a** → 62



**S 7561** → 63

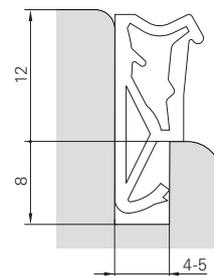
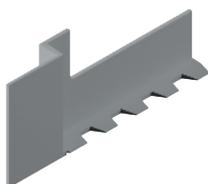
**Windows**  
**Timber**  
Floating-mullion seals



**S 3117f** → 144



### 2.1.2.2 VESU-12



#### Product description

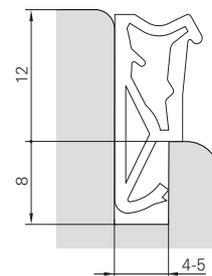
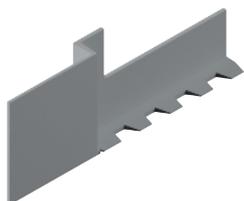
- For the 12 mm floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without a centre post
- Processing: insert in the groove with the sealing profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

4 – 5	8	12	–	–	Top Bottom Sash	RAL 9004	Signal black	TPE	100 Pair(s)	Poly bag	807736
						RAL 7015	Slate grey	TPE	100 Pair(s)	Poly bag	825931
						RAL 7040	Window grey	TPE	100 Pair(s)	Poly bag	825932
						RAL 9016	Traffic white	TPE	100 Pair(s)	Poly bag	807737
						RAL 8014	Sepia brown	TPE	100 Pair(s)	Poly bag	825933
						RAL 1001	Beige	TPE	100 Pair(s)	Poly bag	825930

**2.1.2.3 VESU-19**



**Product description**

- For the 19 mm floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without a centre post
- Processing: insert in the groove with the sealing profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

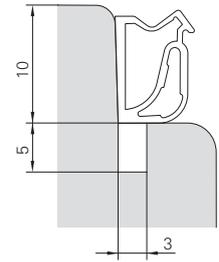
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

4 – 5	8	12	–	–	Top Bottom Sash	RAL 9004	Signal black	TPE	100 Pair(s)	Poly bag	819919
						RAL 7015	Slate grey	TPE	100 Pair(s)	Poly bag	825935
						RAL 7040	Window grey	TPE	100 Pair(s)	Poly bag	825936
						RAL 9016	Traffic white	TPE	100 Pair(s)	Poly bag	819918
						RAL 8014	Sepia brown	TPE	100 Pair(s)	Poly bag	825937
						RAL 1001	Beige	TPE	100 Pair(s)	Poly bag	825934



### 2.1.2.4 VES 3



#### Product description

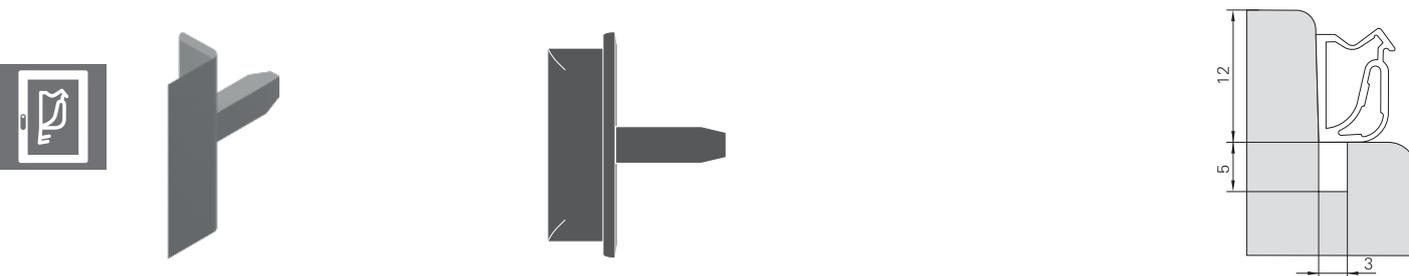
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	10	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	1000 Piece(s)	Cardboard	798659
						RAL 7015	Slate grey	TPE	1000 Piece(s)	Cardboard	798661
						RAL 7040	Window grey	TPE	1000 Piece(s)	Cardboard	825627
						RAL 9016	Traffic white	TPE	1000 Piece(s)	Cardboard	798660
						RAL 8014	Sepia brown	TPE	1000 Piece(s)	Cardboard	825628
					RAL 1001	Beige	TPE	1000 Piece(s)	Cardboard	798658	

**2.1.2.5 VES 3-1210**



**Product description**

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 4 mm

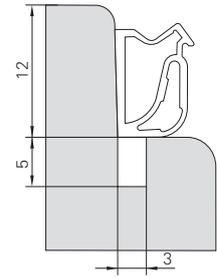
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	–	–	Top Bottom Sash	RAL 9004 RAL 7015 RAL 7040 RAL 9016 RAL 8014 RAL 1001	Signal black Slate grey Window grey Traffic white Sepia brown Beige	TPE TPE TPE TPE TPE TPE	1000 Piece(s) 1000 Piece(s) 1000 Piece(s) 1000 Piece(s) 1000 Piece(s) 1000 Piece(s)	Cardboard Cardboard Cardboard Cardboard Cardboard Cardboard	798752 798754 825988 798757 798756 798753



**2.1.2.6 VES 3a-1210**



**Product description**

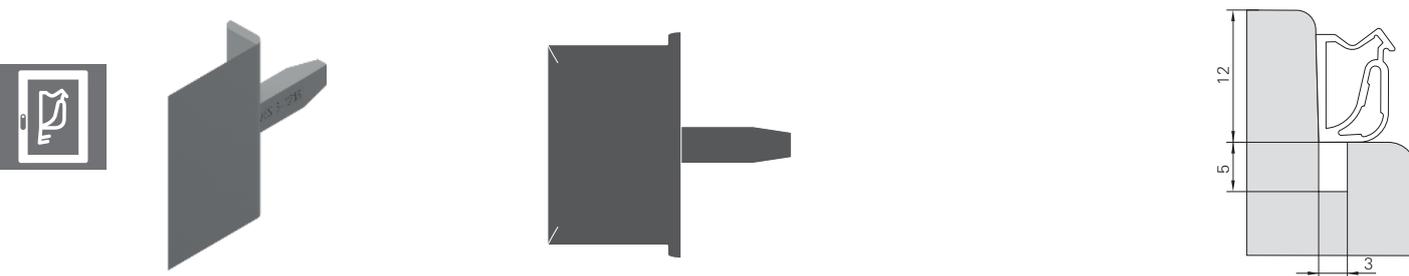
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 4 mm

**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	100 Pair(s)	Poly bag	827983
						RAL 7015	Slate grey	TPE	100 Pair(s)	Poly bag	834052
						RAL 7040	Window grey	TPE	100 Pair(s)	Poly bag	834051
						RAL 9016	Traffic white	TPE	100 Pair(s)	Poly bag	827984
						RAL 8014	Sepia brown	TPE	100 Pair(s)	Poly bag	834050
						RAL 1001	Beige	TPE	100 Pair(s)	Poly bag	834048

**2.1.2.7 VES 3-1218**



**Product description**

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 12 mm

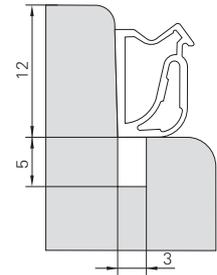
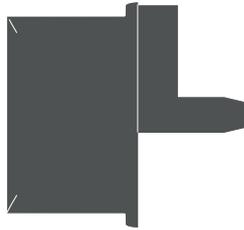
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	1000 Piece(s)	Cardboard	825923
						RAL 7015	Slate grey	TPE	1000 Piece(s)	Cardboard	798758
						RAL 7040	Window grey	TPE	1000 Piece(s)	Cardboard	825989
						RAL 9016	Traffic white	TPE	1000 Piece(s)	Cardboard	798759
						RAL 8014	Sepia brown	TPE	1000 Piece(s)	Cardboard	825925
						RAL 1001	Beige	TPE	1000 Piece(s)	Cardboard	825924



**2.1.2.8 VES 3a-1218**



**Product description**

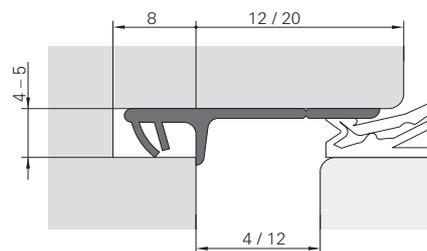
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 12 mm

**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	100 Pair(s)	Poly bag	827705
						RAL 7015	Slate grey	TPE	100 Pair(s)	Poly bag	827929
						RAL 7040	Window grey	TPE	100 Pair(s)	Poly bag	833987
						RAL 9016	Traffic white	TPE	100 Pair(s)	Poly bag	827820
						RAL 8014	Sepia brown	TPE	100 Pair(s)	Poly bag	827930
						RAL 1001	Beige	TPE	100 Pair(s)	Poly bag	827928

**2.1.2.9 S 6600e**



**Product description**

- For the floating mullion of double-sashed windows made of timber and timber-aluminium without a centre post
- Processing: with flush cutting of the seal outer edge / hardware rebate dimension to length
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

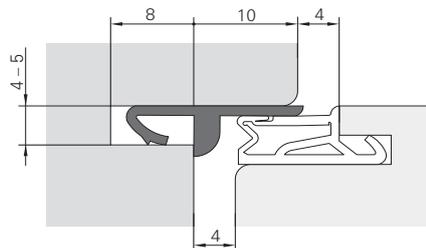
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness
- The screw fixing is neatly covered when the fixed centre post is screwed
- Can be used for 4 mm and 12 mm hardware clearance thanks to the tear-off edge

4 – 5	8	12	–	–	Sash	RAL 9004	Signal black	TPE	200 m	Pane	827213
						RAL 7015	Slate grey	TPE	200 m	Pane	827205
						RAL 7040	Window grey	TPE	200 m	Pane	820974
						RAL 9016	Traffic white	TPE	200 m	Pane	818221
						RAL 1013	Pearl white	TPE	200 m	Pane	839700
						RAL 8014	Sepia brown	TPE	200 m	Pane	827212
						RAL 1001	Beige	TPE	200 m	Pane	827210



**2.1.2.10 S 6544**



**Product description**

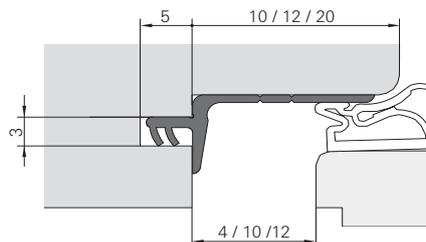
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: with flush cutting of the seal outer edge / hardware rebate dimension to length
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

4 – 5	8	10	–	–	Sash	RAL 9004	Signal black	TPE	200 m	Spool	827647
						RAL 7015	Slate grey	TPE	200 m	Spool	827873
						RAL 9016	Traffic white	TPE	200 m	Spool	827648
						RAL 8014	Sepia brown	TPE	200 m	Spool	798557

**2.1.2.11 S 7583a**



**Product description**

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: with flush cutting of the seal outer edge / hardware rebate dimension to length
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

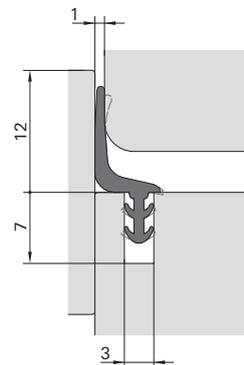
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness
- For room-side sealing of the hardware rebate
- Can be used for 4 mm, 10 mm and 12 mm hardware clearance thanks to the tear-off edge

3	5	20	-	-	Sash	RAL 9004	Signal black	TPE	150 m	Spool	827589
						RAL 7015	Slate grey	TPE	150 m	Spool	827586
						RAL 7040	Window grey	TPE	150 m	Spool	827587
						RAL 9016	Traffic white	TPE	150 m	Spool	827590
						RAL 8014	Sepia brown	TPE	150 m	Spool	827588
						RAL 1001	Beige	TPE	150 m	Spool	827584



**2.1.2.12 S 7561**



**Product description**

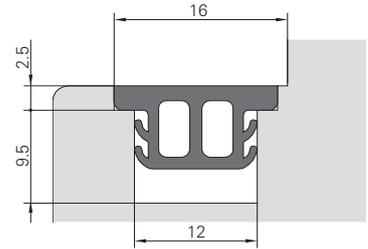
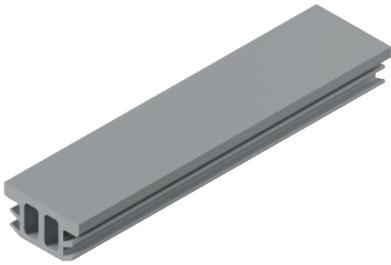
- For the overlap and the fixed centre post of double-sashed windows without any other type of centre post
- Processing: cut flush with the sash rebate in order to cover the gap between the fixed centre post and frame
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Increased airtightness
- No impact of timber on timber
- No blocking of the coating

3	7	12	1	-	Sash	RAL 9016	Traffic white	TPE	300 m	Spool	825963
						RAL 7015	Slate grey	TPE	300 m	Spool	826291
						RAL 9004	Signal black	TPE	300 m	Spool	826010

**2.1.2.13 S 3117f**



**Product description**

- For covering the hardware groove
- Processing: push into the hardware groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Prevents deposits of dirt and foreign matter in the open hardware groove

12	9.5	2.5	-	-	Top Bottom Left Right Sash	RAL 9004 RAL 7040 RAL 9016 RAL 8014	Signal black Window grey Traffic white Sepia brown	TPE TPE TPE TPE	100 m 100 m 100 m 100 m	Spool Spool Spool Spool	827818 827745 827805 827895



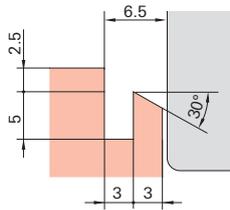
### 2.1.3 Internal stop seals | Overlap seals

The stop seal, also known as an overlap seal in timber elements, is a window seal that is attached between the window sash and window frame. It seals the gap between the window frame and window sash against draughts and moisture from the room air. This largely prevents condensation in the hardware rebate.

Stop seals are made of a flexible material like synthetic rubber (EPDM) or compact / foamed TPE, and are clamped into a groove. They are an effective way of preventing draughts entering or warm room air escaping. Furthermore, stop seals also help reduce external noises and create a comfortable room climate and living environment.



2.1.3.1 Internal stop seals | Overlap seals



S 7494 → 67



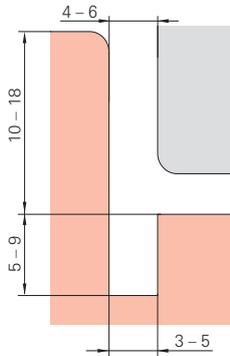
SP 33b → 68



SV 33 → 69



DS 6677 → 70



SP 7610 → 71



SP 103a → 72



S 7503b → 73



SP 7603 → 74



SP 7715 → 75



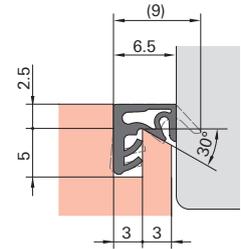
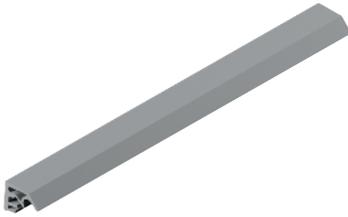
SP 7718 → 76



SP 6918 → 77



2.1.3.2 S 7494



Product description

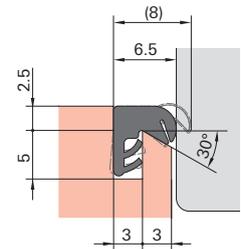
- For the sash of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Smooth installation on the timber rebate through pre-tensioning in the foot area
- Optimal hold in the groove thanks to two soft foot lips

3	5	2.5	6.5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827771
						RAL 7015	Slate grey	TPE	250 m	Spool	827769
						RAL 7040	Window grey	TPE	250 m	Spool	859043
						RAL 9016	Traffic white	TPE	250 m	Spool	827694
						RAL 8014	Sepia brown	TPE	250 m	Spool	827770
						RAL 1001	Beige	TPE	250 m	Spool	827695

2.1.3.3 SP 33b



Product description

- For the sash of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W25243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

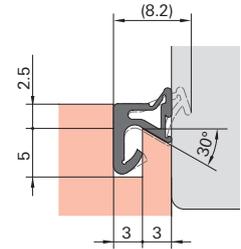
Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Smooth installation on the timber rebate through pre-tensioning in the foot area
- Optimal hold in the groove thanks to two soft foot lips

3	5	2.5	6	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827011
						RAL 7015	Slate grey	TPE	200 m	Spool	826978
						RAL 7040	Window grey	TPE	200 m	Spool	827008
						RAL 9016	Traffic white	TPE	200 m	Spool	807671
						RAL 8014	Sepia brown	TPE	200 m	Spool	807670
						RAL 1001	Beige	TPE	200 m	Spool	827006



### 2.1.3.4 SV 33



#### Product description

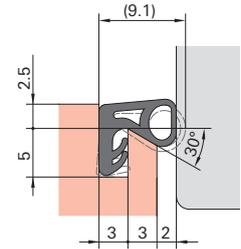
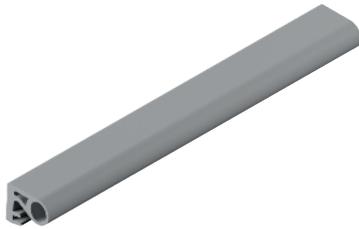
- For the sash of windows and leaf of balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake

3	5	2.5	6	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827015
						RAL 7040	Window grey	TPE	200 m	Spool	827013
						RAL 9016	Traffic white	TPE	200 m	Spool	827016
						RAL 8014	Sepia brown	TPE	200 m	Spool	827014
						RAL 1001	Beige	TPE	200 m	Spool	827012

2.1.3.5 DS 6677



**Product description**

- For the overlap of windows and balcony doors made of timber and timber-aluminium
- Processing: notching
- Classification: EN 12365-1 – W25276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

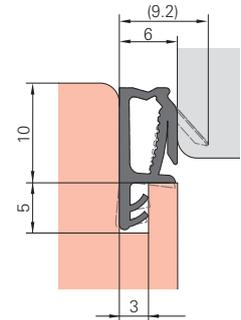
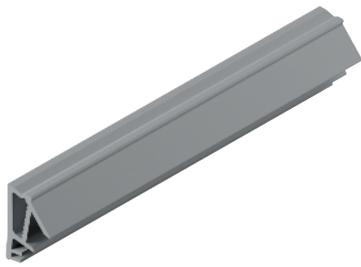
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Also for subsequent installation in the overlap of window sashes (box windows)
- Installation dimensions correspond to those of standard, small overlap seals

3	5	2.5	8	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	Silicone	100 m	Bundle	817457
						RAL 9016	Traffic white	Silicone	100 m	Bundle	798526



### 2.1.3.6 SP 7610



#### Product description

- For the overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W32233
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

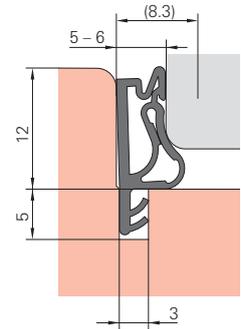
- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

3	5	10	6	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827765
						RAL 7015	Slate grey	TPE	200 m	Spool	828032
						RAL 7040	Window grey	TPE	200 m	Spool	827680
						RAL 9016	Traffic white	TPE	200 m	Spool	827611
						RAL 8014	Sepia brown	TPE	200 m	Spool	827898
						RAL 1001	Beige	TPE	200 m	Spool	827784





2.1.3.8 S 7503b



Product description

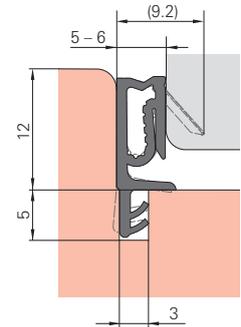
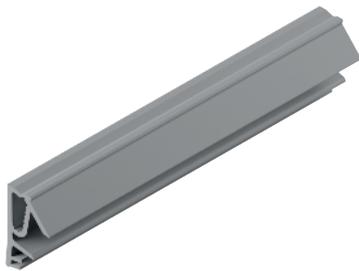
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Minimal build-up of closing pressure
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	826842
						RAL 7040	Window grey	TPE	150 m	Spool	820996
						RAL 7015	Slate grey	TPE	150 m	Spool	821672
						RAL 9016	Traffic white	TPE	150 m	Spool	826843
						RAL 8014	Sepia brown	TPE	150 m	Spool	818252
						RAL 1001	Beige	TPE	150 m	Spool	798850

2.1.3.9 SP 7603



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W43243
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

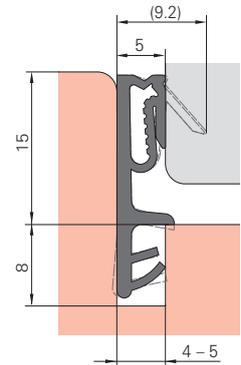
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	820899
						RAL 7015	Slate grey	TPE	150 m	Spool	820898
						RAL 7040	Window grey	TPE	150 m	Spool	827522
						RAL 9016	Traffic white	TPE	150 m	Spool	827521
						RAL 8014	Sepia brown	TPE	150 m	Spool	827524
						RAL 1001	Beige	TPE	150 m	Spool	827520



2.1.3.10 SP 7715



**Product description**

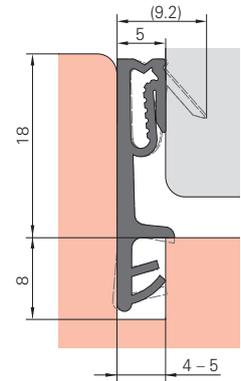
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	15	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	100 m	Spool	827267
						RAL 7015	Slate grey	TPE	100 m	Spool	827266
						RAL 7040	Window grey	TPE	100 m	Spool	827262
						RAL 9016	Traffic white	TPE	100 m	Spool	827264
						RAL 8014	Sepia brown	TPE	100 m	Spool	827707
						RAL 1001	Beige	TPE	100 m	Spool	827265

2.1.3.11 SP 7718



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

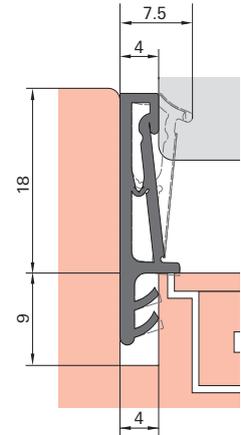
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	18	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	125 m	Spool	827538
						RAL 7015	Slate grey	TPE	125 m	Spool	827757
						RAL 7040	Window grey	TPE	125 m	Spool	827537
						RAL 9016	Traffic white	TPE	125 m	Spool	827539
						RAL 8014	Sepia brown	TPE	125 m	Spool	827690
						RAL 1001	Beige	TPE	125 m	Spool	827540



2.1.3.12 SP 6918



**Product description**

- For the overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W36263
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4	9	18	4	Steep	Top Bottom Left Right Sash	Signal black	RAL 9004	TPE	100 m	Spool	827527
						Window grey	RAL 7040	TPE	100 m	Spool	834005
						Traffic white	RAL 9016	TPE	100 m	Spool	827528
						Sepia brown	RAL 8014	TPE	100 m	Spool	827526
						Beige	RAL 1001	TPE	100 m	Spool	827525

### **2.1.4 External stop seals | Frame seals**

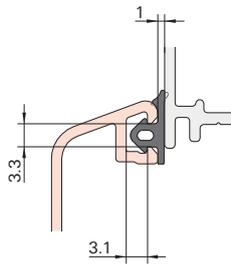
The external stop seal, also known as a frame seal in timber elements, is a seal type that is generally used for windows and balcony doors in order to ensure that the sealing between the frame and the sash is as airtight as possible.

External stop seals are usually made from a robust material like synthetic rubber (EPDM), silicone or PVC, which is weather-resistant when exposed to sun, rain and snow. They are an effective way of preventing draughts, driving rain and dirt particles from getting in. The sealing that is achieved contributes to sound insulation, improving the energy efficiency of buildings and creating a more comfortable room climate and living environment.





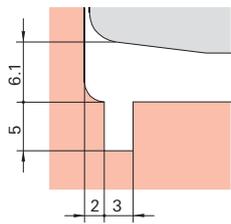
### 2.1.4.1 External stop seals | Frame seals



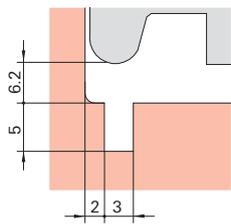
**S 6647** → 80



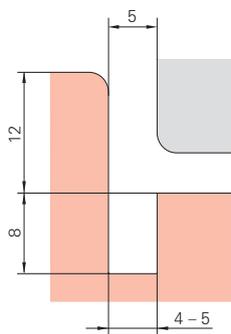
**S 6647a** → 81



**DS 7621** → 82

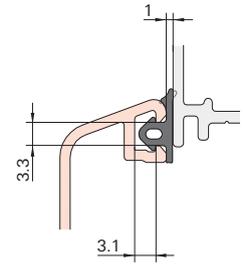
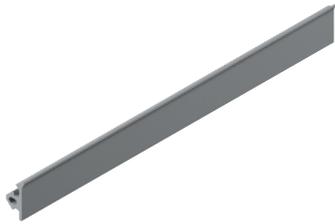


**S 7624** → 83



**SV 512a** → 84

2.1.4.2 S 6647



Product description

- External stop seal for timber-aluminium windows and balcony doors with a steep turn-in curve
- Processing: notching or butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

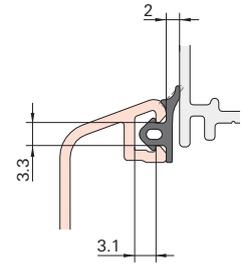
Advantages at a glance

- Seals the joint between the weather strip bar and the sash in timber windows
- Optical finish to the joint between the sash and frame for timber-aluminium windows
- Tighter sealing if subjected to driving rain

3.3	3.1	1	-	Steep	Bottom Left Right Frame	RAL 9004	Signal black	TPE	400 m	Spool	827569
						RAL 7015	Slate grey	TPE	400 m	Spool	827605
						RAL 7040	Window grey	TPE	400 m	Spool	827607
						RAL 9016	Traffic white	TPE	400 m	Spool	827772
						RAL 8014	Sepia brown	TPE	400 m	Spool	827773



2.1.4.3 S 6647a



Product description

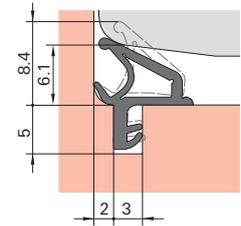
- External stop seal for timber-aluminium windows and balcony doors with a steep turn-in curve
- Processing: notching or butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

Advantages at a glance

- Seals the joint between the weather strip bar and the sash in timber windows
- Optical finish to the joint between the sash and frame for timber-aluminium windows
- Tighter sealing if subjected to driving rain

3.3	3.1	-	2	Steep	Bottom Left Right Frame	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	400 m 400 m	Spool Spool	Nº 827570 827809

2.1.4.4 DS 7621



**Product description**

- For the frame of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for other doors
- Processing: notching
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Only insert seals into the lateral groove on the right and left

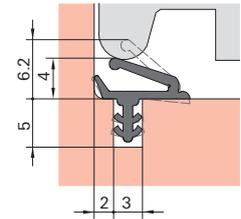
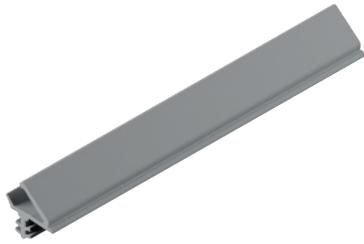
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Improved driving rain impermeability in the event of large water volumes and high wind loads
- Prevents water from entering the vertical rebate
- Takes much of the load off the bottom corner area
- Can be used with all common window designs

3	5	-	6.1	Steep	Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	826232
						RAL 7015	Slate grey	Silicone	50 m	Bundle	826290
						RAL 7040	Window grey	Silicone	50 m	Bundle	827330
						RAL 9016	Traffic white	Silicone	50 m	Bundle	826289
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	826312



2.1.4.5 S 7624



**Product description**

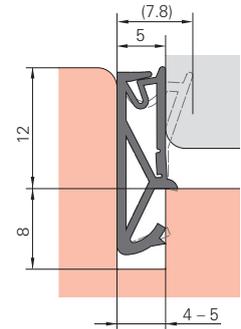
- For the frame of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W31222
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Only insert seals into the lateral groove on the right and left

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Improved driving rain impermeability in the event of large water volumes and high wind loads
- Prevents water from entering the vertical rebate
- Takes much of the load off the bottom corner area
- Can be used with all common window designs

											
3	5	-	4	Steep	Left Right Frame	RAL 9004	Signal black	TPE	250 m	Spool	827583
						RAL 7015	Slate grey	TPE	250 m	Spool	827582
						RAL 7040	Window grey	TPE	250 m	Spool	827581
						RAL 9016	Traffic white	TPE	250 m	Spool	827580
						RAL 8014	Sepia brown	TPE	250 m	Spool	827652
					RAL 1001	Beige	TPE	250 m	Spool	827790	

2.1.4.6 SV 512a



Product description

- For the frame of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or butt joints
- Classification: EN 12365-1 – W34243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake

4 – 5	8	12	5	Steep	Top Bottom Left Right Frame	RAL 9004 RAL 9016 RAL 8014 RAL 1001	Signal black Traffic white Sepia brown Beige	TPE TPE TPE TPE	120 m 120 m 120 m 120 m	Spool Spool Spool Spool	827553 827610 827670 827940



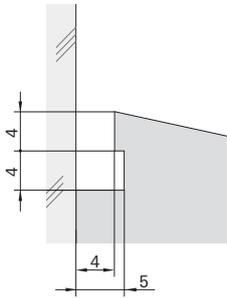
### 2.1.5 Internal glazing seals

The internal glazing seal is a seal type that is generally used for windows in order to ensure that the sealing between the glass and frame is as airtight as possible. As part of the dry glazing, it reliably seals the gap between the glass and glazing bead or frame, and prevents moisture from entering the glass rebate. The seal is attached between the glass and the glazing bead or the frame groove, and sealing is ensured via the corresponding seal compression. This is a neat, fast and economical alternative to wet glazing.

Glazing seals can be made of various materials, such as synthetic rubber (EPDM), silicone or compact / foamed TPE. They are an important component when it comes to the energy efficiency of windows, as they can help reduce heat loss through points that lack a tight seal, minimise external noises and create a more comfortable room climate and living environment.



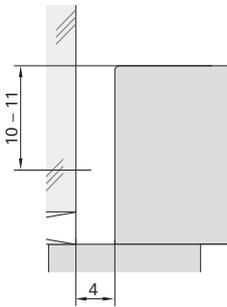
**2.1.5.1 Internal glazing seals**



**S V 2** → 87



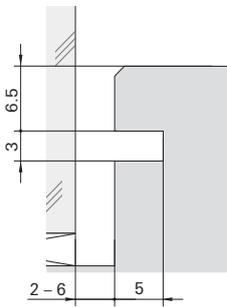
**S 7375 A** → 88



**S 7392 A** → 89



**S 7614** → 90



**S 7632** → 91



**S 7633** → 92



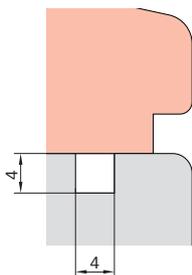
**S 7634** → 93



**S 7635** → 94



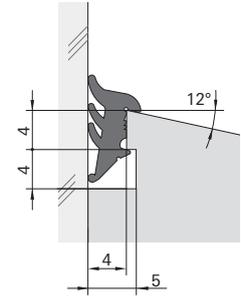
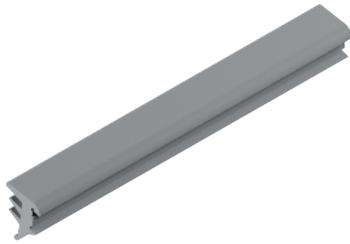
**S 7636** → 95



**S 6867** → 96



**2.1.5.2 SV 2**



**Product description**

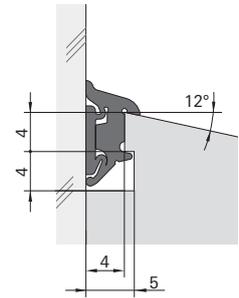
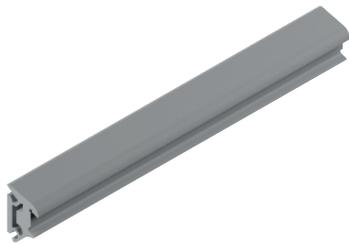
- As internal dry glazing of windows and balcony doors made of timber and timber-aluminium
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Equivalent to glazing without glazing tape (ift guideline 9/83)
- Nail in glazing beads so that they are concealed / visible

5	4	4	4	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	798868
						RAL 9016	Traffic white	TPE	200 m	Spool	798584
						RAL 8014	Sepia brown	TPE	200 m	Spool	798869
						RAL 1001	Beige	TPE	200 m	Spool	798583

2.1.5.3 S 7375 A



Product description

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

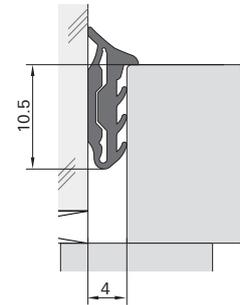
Advantages at a glance

- Perfect hold in the groove even for larger tolerances by fixing on the pane of glass with adhesive tape
- Seal and adhesive tape inseparably connected
- Very simple installation thanks to 'floating in'

5	4	4	4	-	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827602
						RAL 7015	Slate grey	TPE	200 m	Spool	827704
						RAL 7040	Window grey	TPE	200 m	Spool	828019
						RAL 9016	Traffic white	TPE	200 m	Spool	826831
						RAL 8014	Sepia brown	TPE	200 m	Spool	827668
						RAL 1001	Beige	TPE	200 m	Spool	827595



**2.1.5.4 S 7392 A**



**Product description**

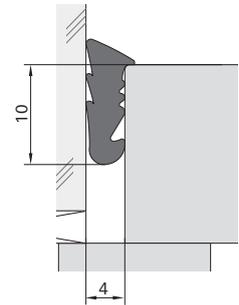
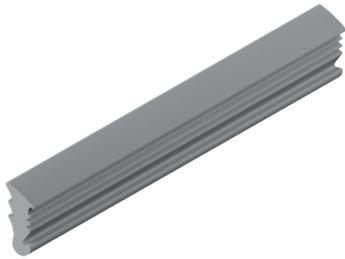
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Perfect hold in the groove even for larger tolerances by fixing on the pane of glass with adhesive tape
- Seal and adhesive tape inseparably connected
- Very simple installation thanks to ‘floating in’

4	11	-	4	-	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	250 m 250 m	Spool Spool	827835 827493

2.1.5.5 S 7614



Product description

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

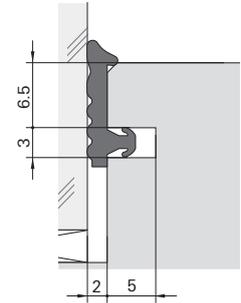
Advantages at a glance

- Wedge profile
- Simple and rapid installation
- Clear and uniform view

4	-	-	4	-	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	400 m 400 m	Spool Spool	826223 826224



**2.1.5.6 S 7632**



**Product description**

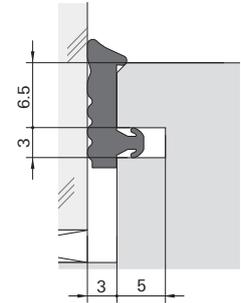
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	5	6.5	2	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	300 m	Spool	827559
						RAL 7015	Slate grey	TPE	300 m	Spool	827558
						RAL 7040	Window grey	TPE	300 m	Spool	827776

2.1.5.7 S 7633



Product description

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

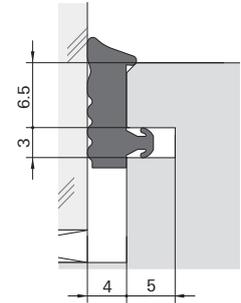
Advantages at a glance

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	5	6.5	3	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827808
						RAL 7015	Slate grey	TPE	250 m	Spool	827560
						RAL 7040	Window grey	TPE	250 m	Spool	827561



**2.1.5.8 S 7634**



**Product description**

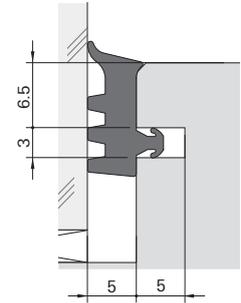
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	5	6.5	4	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827696
						RAL 7015	Slate grey	TPE	200 m	Spool	827829
						RAL 7040	Window grey	TPE	200 m	Spool	827664

2.1.5.9 S 7635



Product description

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

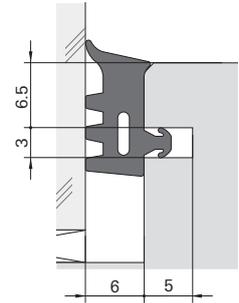
Advantages at a glance

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	4	6.5	5	-	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	150 m 150 m	Spool Spool	827563 827562



**2.1.5.10 S 7636**



**Product description**

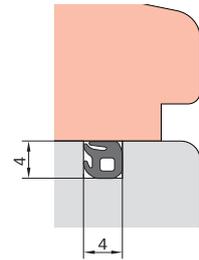
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	4	6.5	6	–	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	150 m 150 m	Spool Spool	Nº 827564 827495

**2.1.5.11 S 6867**



**Product description**

- For sealing the joint under the glazing bead
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Nail in glazing beads so that they are concealed / visible; nail spacing < 200 mm
- Provide spacer blocking as usual

4	4	-	-	-	Top	RAL 9004	Signal black	TPE	400 m	Spool	827139
					Bottom	RAL 9016	Traffic white	TPE	400 m	Spool	827140
					Left	RAL 8014	Sepia brown	TPE	400 m	Spool	827138
					Right						
					Sash	RAL 1001	Beige	TPE	400 m	Spool	827137



### 2.1.6 Renovation seals

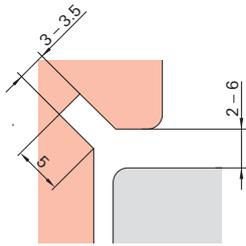
The renovation seal for windows is a seal type that is used when renovating older windows in order to improve energy efficiency. It is a retrofitted seal solution that is attached to the existing window frame in order to ensure effective sealing.

The renovation seal is generally attached to the inside of the rigid window frame, and can be made of various materials, such as synthetic rubber (EPDM), silicone and compact or foamed TPE. It is installed in a groove, which can also be subsequently routed without removing the windows. Installation using high-quality adhesive tape is possible as an alternative.

Renovation seals for windows can help to reduce heat loss through points that lack a tight seal and consequently to improve the energy efficiency of older windows. They can also help to reduce external noises and create a more comfortable room climate and living environment.



### 2.1.6.1 Renovation seals



**DS 7341** → 100



**DS 9608** → 101



**DS 7527** → 102



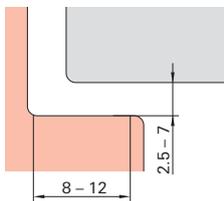
**DS 9609** → 103



**DS 7552** → 104



**DS 7553** → 105



**S 9612 A** → 108



**S 9100-10 A** → 109



**S 9200-10 A** → 110



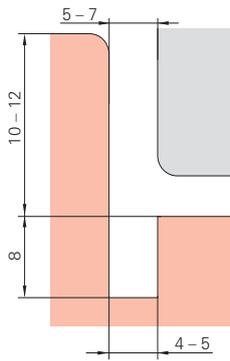
**S 9168a A** → 111



**S 9414 A** → 106



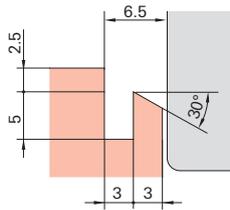
**S 9216 A** → 107



**S 6624** → 112



**SV 105** → 113

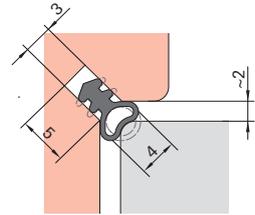


**S 7494** → 114



**DS 6677** → 115

**2.1.6.2 DS 7341**



**Product description**

- For the refurbishment of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

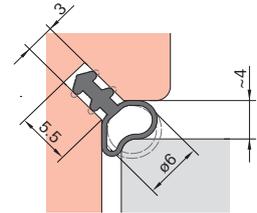
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- The groove is routed using grooving cutters without the need to remove the windows

3	5	4	2	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	Silicone	100 m	Spool	834567



### 2.1.6.3 DS 9608



#### Product description

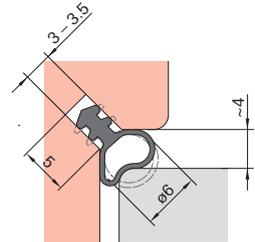
- For the refurbishment of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- The groove is routed using grooving cutters without the need to remove the windows

3	5.5	-	4	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	Silicone	100 m	Spool	827229
						RAL 7040	Window grey	Silicone	100 m	Spool	827514
						RAL 9016	Traffic white	Silicone	100 m	Spool	798682
						RAL 8014	Sepia brown	Silicone	100 m	Spool	798684
						RAL 1001	Beige	Silicone	100 m	Spool	798683

**2.1.6.4 DS 7527**



**Product description**

- For the refurbishment of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

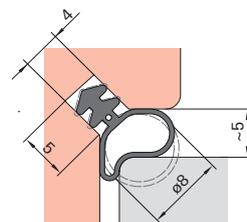
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- The groove is routed using grooving cutters without the need to remove the windows

3 – 3.5	5	-	4	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	Silicone	100 m	Spool	798825
						RAL 9016	Traffic white	Silicone	100 m	Spool	825996
						RAL 8014	Sepia brown	Silicone	100 m	Spool	861547
						RAL 1001	Beige	Silicone	100 m	Spool	826624



### 2.1.6.5 DS 9609



#### Product description

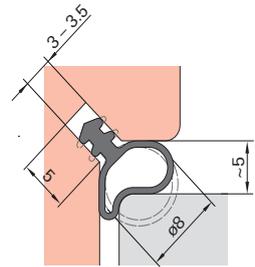
- For the refurbishment of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- The groove is routed using grooving cutters without the need to remove the windows

4	5	–	5	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	Silicone	100 m	Spool	798680
						RAL 7040	Window grey	Silicone	100 m	Spool	827230
						RAL 9016	Traffic white	Silicone	100 m	Spool	817471
						RAL 8014	Sepia brown	Silicone	100 m	Spool	817470
						RAL 1001	Beige	Silicone	100 m	Spool	825681

**2.1.6.6 DS 7552**



**Product description**

- For the refurbishment of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

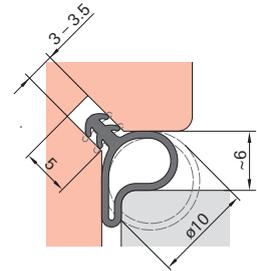
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- The groove is routed using grooving cutters without the need to remove the windows

3 – 3.5	5	–	5	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	Spool	100 m	Silicone	826448
						RAL 7040	Window grey	Spool	100 m	Silicone	826450
						RAL 9016	Traffic white	Spool	100 m	Silicone	825993
						RAL 1001	Beige	Spool	100 m	Silicone	838084



### 2.1.6.7 DS 7553



#### Product description

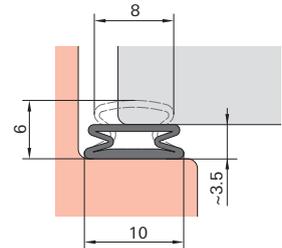
- For the refurbishment of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- The groove is routed using grooving cutters without the need to remove the windows

3 – 3.5	5	–	6	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Spool	798829
						RAL 9016	Traffic white	Silicone	50 m	Spool	825994
						RAL 1001	Beige	Silicone	50 m	Spool	826725

**2.1.6.8 S 9414 A**



**Product description**

- With adhesive tape for the renovation of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

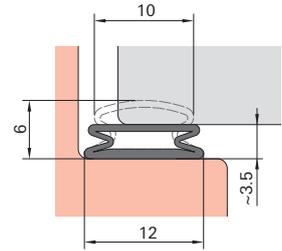
**Advantages at a glance**

- Prevents draughts and loss of heat
- Optimal adhesion to clean, dry and grease-free surfaces

-	-	-	3.5	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	200 m	Spool	798870
						RAL 9016	Traffic white	TPE	200 m	Spool	827298
						RAL 8014	Sepia brown	TPE	200 m	Spool	818270



### 2.1.6.9 S 9216 A



#### Product description

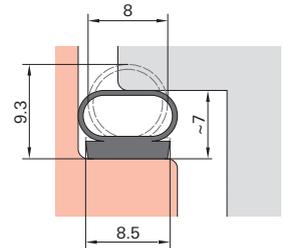
- With adhesive tape for the renovation of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Prevents draughts and loss of heat
- Optimal adhesion to clean, dry and grease-free surfaces

-	-	-	3.5	Steep	Top Bottom Left Right Frame	RAL 9004 RAL 7040 RAL 9016 RAL 8014	Signal black Window grey Traffic white Sepia brown	TPE TPE TPE TPE	100 m 100 m 100 m 100 m	Spool Spool Spool Spool	798579 827250 798871 825356

**2.1.6.10 S 9612 A**



**Product description**

- With adhesive tape for the renovation of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

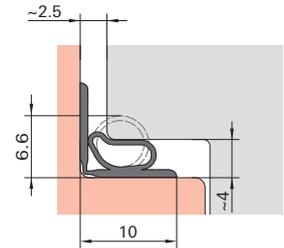
**Advantages at a glance**

- Prevents draughts and loss of heat
- Optimal adhesion to clean, dry and grease-free surfaces

-	-	-	7	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	100 m	Spool	798866
						RAL 9016	Traffic white	TPE	100 m	Spool	818273
						RAL 8014	Sepia brown	TPE	100 m	Spool	818272



### 2.1.6.11 S 9100-10 A



#### Product description

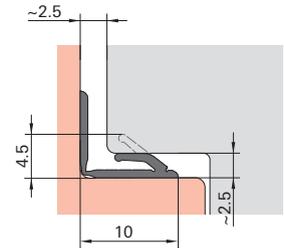
- With adhesive tape for the renovation of old coupled windows made of timber with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Prevents draughts and loss of heat
- Optimal adhesion to clean, dry and grease-free surfaces

-	-	-	4	Steep	Top	RAL 9004	Signal black	TPE	100 m	Spool	798865
					Bottom	RAL 9016	Traffic white	TPE	100 m	Spool	827215
					Left	RAL 8014	Sepia brown	TPE	100 m	Spool	827225
					Right	RAL 1001	Beige	TPE	100 m	Spool	827369
					Frame						

**2.1.6.12 S 9200-10 A**



**Product description**

- With adhesive tape for the refurbishment of old coupled windows made of timber with a steep or flat turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

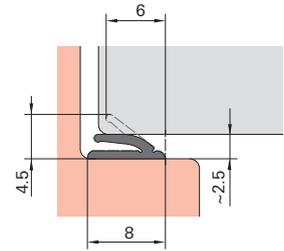
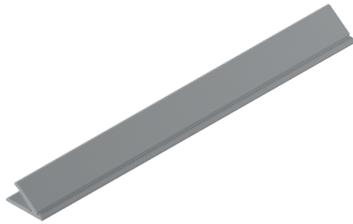
**Advantages at a glance**

- Prevents draughts and loss of heat
- Optimal adhesion to clean, dry and grease-free surfaces

-	-	-	2.5	Steep Flat	Top Bottom Left Right Frame	RAL 9004 RAL 9016 RAL 8014 RAL 1001	Signal black Traffic white Sepia brown Beige	TPE TPE TPE TPE	100 m 100 m 100 m 100 m	Spool Spool Spool Spool	827158 827189 827780 798576	



### 2.1.6.13 S 9168a A



#### Product description

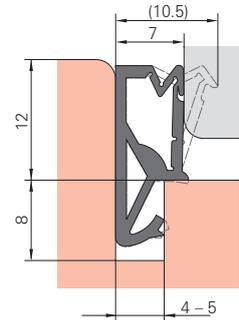
- With adhesive tape for the refurbishment of old coupled windows made of timber with a steep or flat turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Prevents draughts and loss of heat
- Optimal adhesion to clean, dry and grease-free surfaces

-	-	-	2.5	Steep Flat	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	200 m	Spool	798864
						RAL 9016	Traffic white	TPE	200 m	Spool	798863
						RAL 8014	Sepia brown	TPE	200 m	Spool	827128

**2.1.6.14 S 6624**



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W34242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

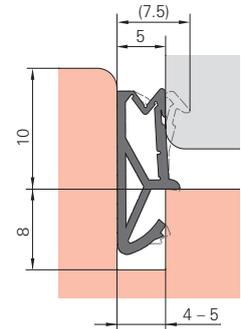
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	7	Steep	Top Bottom Left Right Sash	RAL 9004 RAL 9016	Signal black Traffic white	TPE TPE	120 m 120 m	Spool Spool	Nº 827491 827490



### 2.1.6.15 SV 105



#### Product description

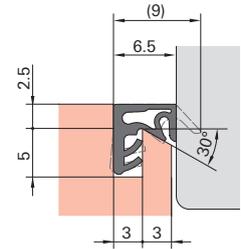
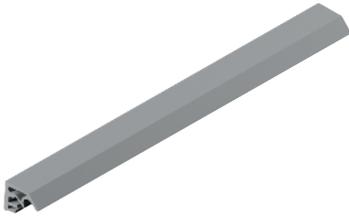
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W34252
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	10	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827543
						RAL 9016	Traffic white	TPE	150 m	Spool	827541
						RAL 8014	Sepia brown	TPE	150 m	Spool	827542

**2.1.6.16 S 7494**



**Product description**

- For the sash of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

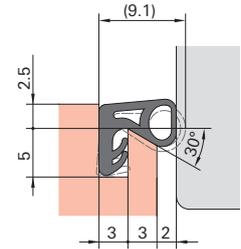
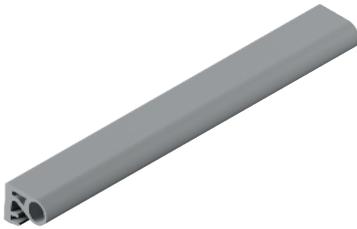
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Smooth installation on the timber rebate through pre-tensioning in the foot area
- Optimal hold in the groove thanks to two soft foot lips

3	5	2.5	6.5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827771
						RAL 7015	Slate grey	TPE	250 m	Spool	827769
						RAL 7040	Window grey	TPE	250 m	Spool	859043
						RAL 9016	Traffic white	TPE	250 m	Spool	827694
						RAL 8014	Sepia brown	TPE	250 m	Spool	827770
						RAL 1001	Beige	TPE	250 m	Spool	827695



2.1.6.17 DS 6677



**Product description**

- For the overlap of windows and balcony doors made of timber and timber-aluminium
- Processing: notching
- Classification: EN 12365-1 – W25276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Also for subsequent installation in the overlap of window sashes (box windows)
- Installation dimensions correspond to those of standard, small overlap seals

3	5	2.5	8	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	Silicone	100 m	Bundle	817457
						RAL 9016	Traffic white	Silicone	100 m	Bundle	798526

### **2.1.7 Window sill seals**

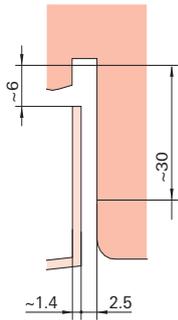
Deventer seals ensure a clean and tight connection between the window frame and window sill profile. The sealing profiles are characterised by easy installation and a secure fit. The window sill seal is attached to the bottom of the window sill and ensures that no moisture or dirt can enter the gap between the window sill and frame.

Window sill seals can be made of various materials, such as synthetic rubber (EPDM) and compact or foamed TPE. They help contribute to the energy efficiency of windows by reducing heat loss through points that lack a tight seal. Window sill seals also help to reduce the transmission of noise from outside to inside, and thereby to create a more comfortable room climate and living environment.

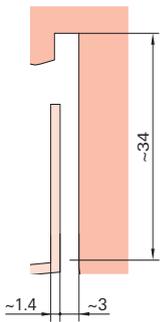




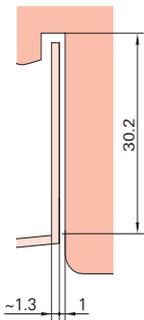
### 2.1.7.1 Window sill seals



**S 7702** → 118



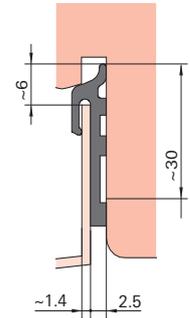
**S 7318 A** → 119



**S 7574 A** → 120



**2.1.7.2 S 7702**



**Product description**

- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

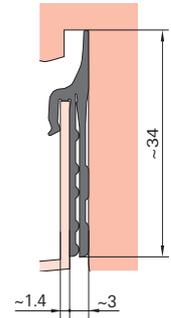
**Advantages at a glance**

- Thermoplastic elastomers ensure better weather resistance than PVC

0	0	24	2.5	-	Bottom Frame	RAL 9004	Signal black	TPE	125 m	Spool	827517
						RAL 7040	Window grey	TPE	125 m	Spool	827791
						RAL 9016	Traffic white	TPE	125 m	Spool	827608



**2.1.7.3 S 7318 A**



**Product description**

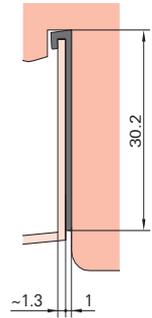
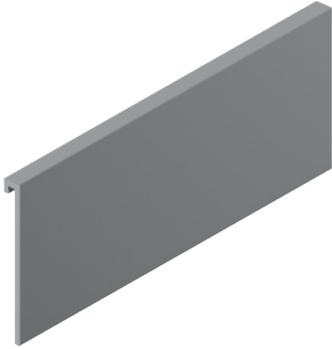
- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

**Advantages at a glance**

- Thermoplastic elastomers ensure better weather resistance than PVC
- Adhesive tape enables precise positioning during installation

0	0	34	3	-	Bottom Frame	RAL 9004	Signal black	TPE	100 m	Spool	826503

**2.1.7.4 S 7574 A**



**Product description**

- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

**Advantages at a glance**

- Thermoplastic elastomers ensure better weather resistance than PVC
- Adhesive tape enables precise positioning during installation

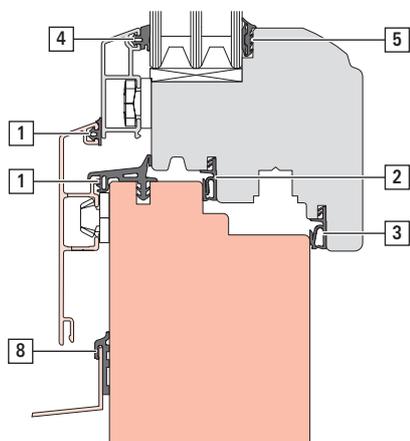
0	0	30.2	1	-	Bottom Frame	RAL 9004	Signal black	TPE	250 m	Spool	827519
						RAL 9016	Traffic white	TPE	250 m	Spool	827689



## 2.2 Timber-aluminium

### Seals for windows and balcony doors made of timber-aluminium

The range of seals for international timber-aluminium systems with the most varied requirements impresses with their excellent functionality and universal processability. The combination of a new profile geometry and high-quality raw material reliably ensures excellent insulating values and thermal insulation.



### Example of use

Installation position of the seal	Example seal, type and function	Profile image
1	<b>S 6647</b> Stop seal, external (frame seal), for 1 mm stop distance. This seals the frames of the window sash and window frame against each other.	
1	<b>S 7650</b> Stop seal, external with universal foot for a variety of systems. This seals both the window sash and the frame against the window frame.	
2	<b>SP 7603</b> Sash rebate seal for 12 mm rebate height, 5 – 6 mm stop distance and 3 x 5 mm groove. Seals windows and frames against humid outside air / moisture.	
3	<b>SP 7603</b> Stop seal, internal (overlap seal) for 12 mm rebate height, 5 – 6 mm stop distance and 3 x 5 mm groove. Seals windows and frames against humid room air.	
4	<b>DS 7620</b> Glazing seal, external for 4 – 5 mm stop distance. Seals the outside of the glass panel to prevent rain and moisture entering.	
5	<b>S 7392 A</b> Glazing seal, internal, self-adhesive for 4 mm stop distance. Seals the glass panel against humid room air.	
8	<b>S 7702</b> Window sill seal for reliably connecting the window sill to the frame	

### Advantages

- High tolerance compensation ensures sealing over the entire window sash
- Minimal build-up of closing pressure for effortless locking and unlocking of windows
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality window products

### **2.2.1 External stop seal | Frame seal**

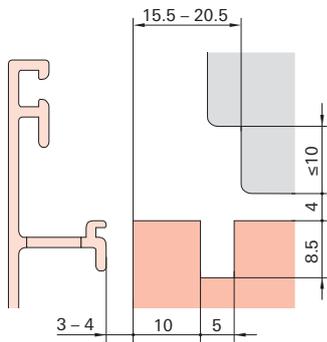
The frame seal – also functioning as an external stop seal in timber-aluminium elements if necessary – is attached in the outer groove of the window profile. It ensures nearly airtight sealing between the window sash and the window frame. When a window sash is closed, the seal presses against the frame. The design of the seal with its special shape ensures uniform pressure distribution and reliable sealing. Closing noises are reduced and the gap between the sash and frame is sealed.

Frame seals for windows can be made of various materials, such as synthetic rubber (EPDM), silicone or compact / foamed TPE. They are an important component when it comes to the energy efficiency of windows, as they can help reduce heat loss through points that lack a tight seal. They prevent draughts and unwanted moisture from entering, and contribute to sound insulation as well as to the creation of a more comfortable room climate and living environment.





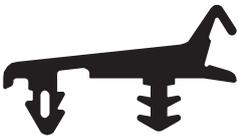
### 2.2.1.1 External stop seal | Frame seal



**S 7650** → 124



**S 6786** → 125



**S 6869** → 126



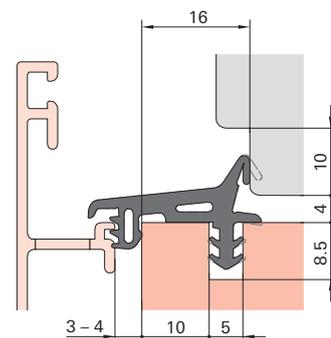
**S 6862** → 127



**S 6864b** → 128



2.2.1.2 S 7650



Product description

- For the central rebate of timber-aluminium windows and balcony doors
- Processing: welding
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

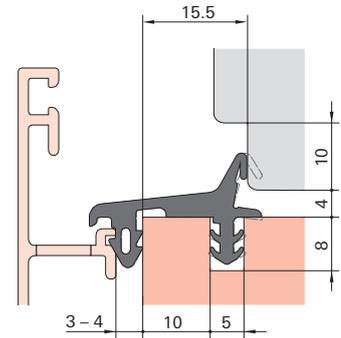
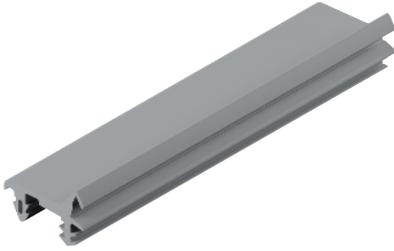
Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Corner joints can be welded without difficulty
- Universal foot compatible with a variety of systems

5	8.5	-	-	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	60 m	Spool	827565



**2.2.1.3 S 6786**



**Product description**

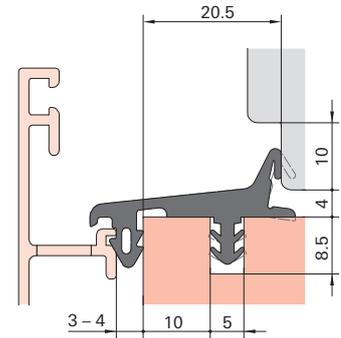
- For the central rebate of timber-aluminium windows and balcony doors
- Processing: welding
- Classification: EN 12365-1 – W34223
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Corner joints can be welded without difficulty

5	8.5	-	-	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	60 m	Spool	827554

2.2.1.4 S 6869



Product description

- For the central rebate of timber-aluminium windows and balcony doors
- Processing: welding
- Classification: EN 12365-1 – W34243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

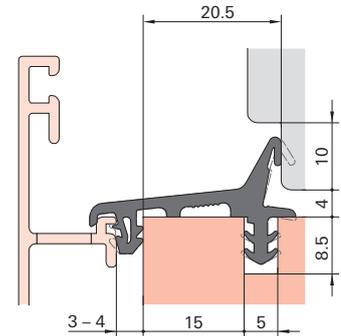
Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Corner joints can be welded without difficulty

5	8.5	-		Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	70 m	Spool	798786



**2.2.1.5 S 6862**



**Product description**

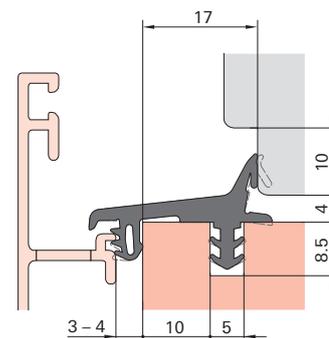
- For the central rebate of timber-aluminium windows and balcony doors
- Processing: welding
- Classification: EN 12365-1 – W33223
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Corner joints can be welded without difficulty

5	8.5	-	-	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	50 m	Spool	827555

2.2.1.6 S 6864b



Product description

- For the central rebate of timber-aluminium windows and balcony doors
- Processing: welding
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Corner joints can be welded without difficulty

5	8.5	-	-	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	60 m	Spool	827990
						RAL 7015	Slate grey	TPE	60 m	Spool	833994



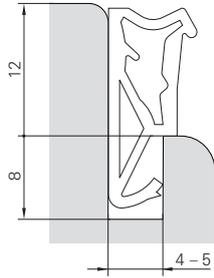
## 2.2.2 Floating-mullion seals

Sealing the floating-mullion area in double-sashed windows and balcony door designs is a challenge. Special sealing profiles are used here in conjunction with Deventer sash rebate seals. The floating-mullion profile is particularly important in the area of the overlap seal in order to reduce the ingress of warm and humid room air into the hardware rebate. This largely prevents condensation.

The seal usually consists of a flexible material like synthetic rubber (EPDM) or PVC. When the window sash is closed, it presses against the opposite sash frame in order to ensure that it is sealed against air and water. This prevents draughts, noise and moisture getting into the room. A well-functioning floating-mullion seal is important for increasing the energy efficiency of a window and for keeping the room climate comfortable.



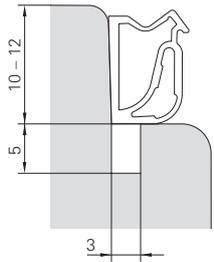
### 2.2.2.1 Floating-mullion seals



VESU-12 → 133



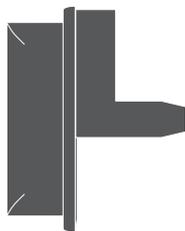
VESU-19 → 134



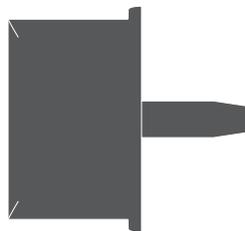
VES 3 → 135



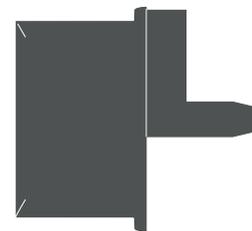
VES 3-1210 → 136



VES 3a-1210 → 137



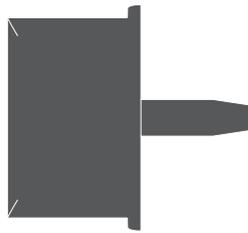
VES 3-1218 → 138



VES 3a-1218 → 139



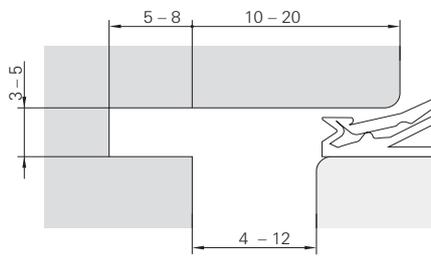
**VES 3-1210** → 136



**VES 3-1218** → 137



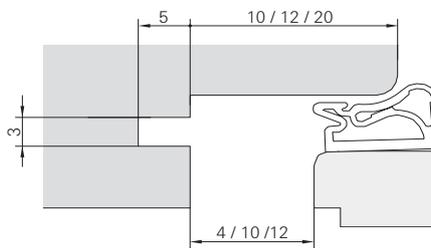
**S 6518a** → 48



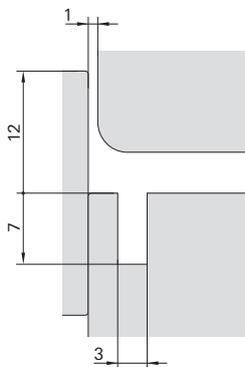
**S 6600e** → 140



**S 6544** → 141

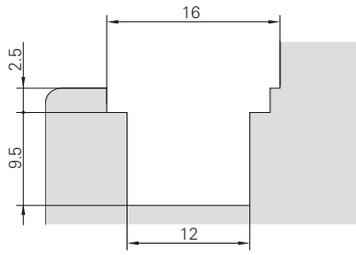


**S 7583a** → 142



**S 7561** → 143

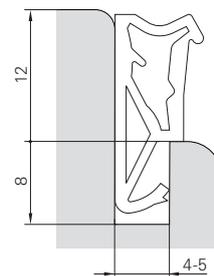
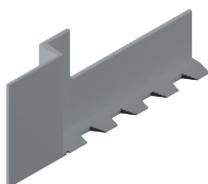
**Windows**  
**Timber-aluminium**  
Floating-mullion seals



**S 3117f** → 144



### 2.2.2.2 VESU-12



#### Product description

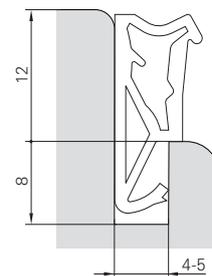
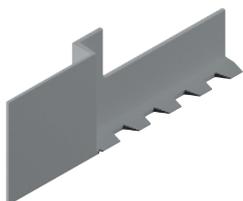
- For the 12 mm floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without a centre post
- Processing: insert in the groove with the sealing profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

4 – 5	8	12	–	–	Top Bottom Sash	RAL 9004 Signal black	TPE	100 Pair(s)	Poly bag	807736
						RAL 7015 Slate grey	TPE	100 Pair(s)	Poly bag	825931
						RAL 7040 Window grey	TPE	100 Pair(s)	Poly bag	825932
						RAL 9016 Traffic white	TPE	100 Pair(s)	Poly bag	807737
						RAL 8014 Sepia brown	TPE	100 Pair(s)	Poly bag	825933
						RAL 1001 Beige	TPE	100 Pair(s)	Poly bag	825930

### 2.2.2.3 VESU-19



#### Product description

- For the 19 mm floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without a centre post
- Processing: insert in the groove with the sealing profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

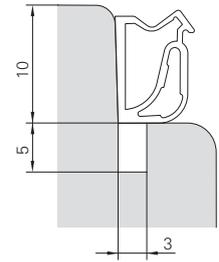
#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

4 – 5	8	12	–	–	Top Bottom Sash	RAL 9004	Signal black	TPE	100 Pair(s)	Poly bag	819919
						RAL 7015	Slate grey	TPE	100 Pair(s)	Poly bag	825935
						RAL 7040	Window grey	TPE	100 Pair(s)	Poly bag	825936
						RAL 9016	Traffic white	TPE	100 Pair(s)	Poly bag	819918
						RAL 8014	Sepia brown	TPE	100 Pair(s)	Poly bag	825937
						RAL 1001	Beige	TPE	100 Pair(s)	Poly bag	825934



### 2.2.2.4 VES 3



#### Product description

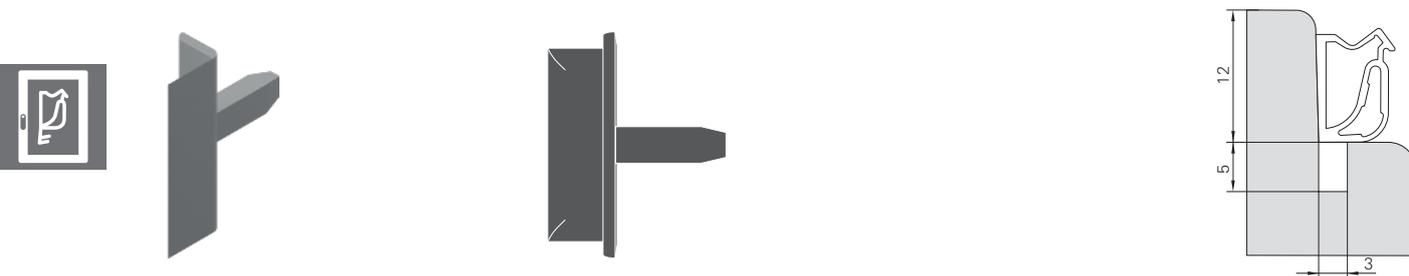
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	10	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	1000 Piece(s)	Cardboard	798659
						RAL 7015	Slate grey	TPE	1000 Piece(s)	Cardboard	798661
						RAL 7040	Window grey	TPE	1000 Piece(s)	Cardboard	825627
						RAL 9016	Traffic white	TPE	1000 Piece(s)	Cardboard	798660
						RAL 8014	Sepia brown	TPE	1000 Piece(s)	Cardboard	825628
					RAL 1001	Beige	TPE	1000 Piece(s)	Cardboard	798658	

### 2.2.2.5 VES 3-1210



#### Product description

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 4 mm

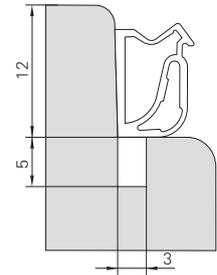
#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	–	–	Top Bottom Sash	RAL 9004 Signal black	TPE	1000 Piece(s)	Cardboard	798752
						RAL 7015 Slate grey	TPE	1000 Piece(s)	Cardboard	798754
						RAL 7040 Window grey	TPE	1000 Piece(s)	Cardboard	825988
						RAL 9016 Traffic white	TPE	1000 Piece(s)	Cardboard	798757
						RAL 8014 Sepia brown	TPE	1000 Piece(s)	Cardboard	798756
						RAL 1001 Beige	TPE	1000 Piece(s)	Cardboard	798753



**2.2.2.6 VES 3a-1210**



**Product description**

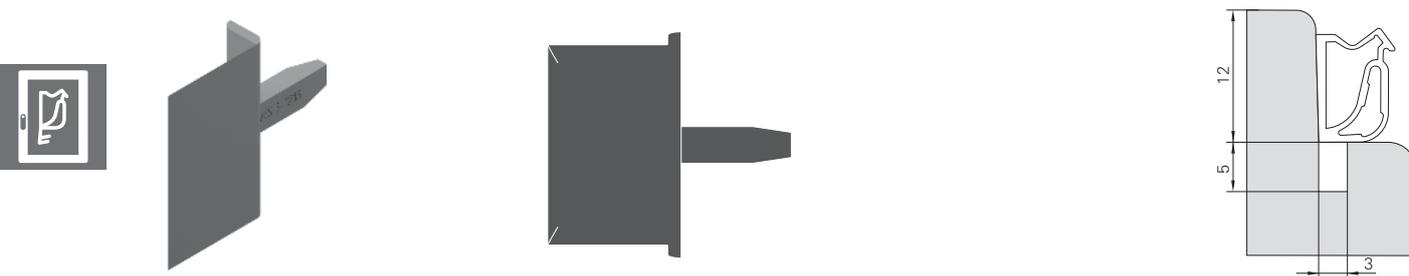
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 4 mm

**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	–	–	Top Bottom Sash	RAL 9004 RAL 7015 RAL 7040 RAL 9016 RAL 8014 RAL 1001	Signal black Slate grey Window grey Traffic white Sepia brown Beige	TPE TPE TPE TPE TPE TPE	100 Pair(s) 100 Pair(s) 100 Pair(s) 100 Pair(s) 100 Pair(s) 100 Pair(s)	Poly bag Poly bag Poly bag Poly bag Poly bag Poly bag	827983 834052 834051 827984 834050 834048

**2.2.2.7 VES 3-1218**



**Product description**

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 12 mm

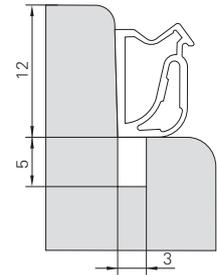
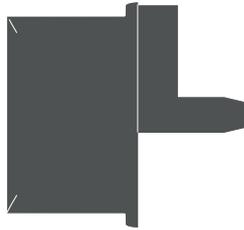
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	1000 Piece(s)	Cardboard	825923
						RAL 7015	Slate grey	TPE	1000 Piece(s)	Cardboard	798758
						RAL 7040	Window grey	TPE	1000 Piece(s)	Cardboard	825989
						RAL 9016	Traffic white	TPE	1000 Piece(s)	Cardboard	798759
						RAL 8014	Sepia brown	TPE	1000 Piece(s)	Cardboard	825925
						RAL 1001	Beige	TPE	1000 Piece(s)	Cardboard	825924



**2.2.2.8 VES 3a-1218**



**Product description**

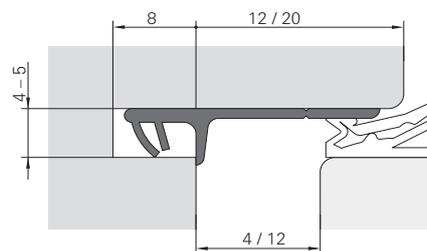
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 12 mm

**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

3	5	12	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	100 Pair(s)	Poly bag	827705
						RAL 7015	Slate grey	TPE	100 Pair(s)	Poly bag	827929
						RAL 7040	Window grey	TPE	100 Pair(s)	Poly bag	833987
						RAL 9016	Traffic white	TPE	100 Pair(s)	Poly bag	827820
						RAL 8014	Sepia brown	TPE	100 Pair(s)	Poly bag	827930
						RAL 1001	Beige	TPE	100 Pair(s)	Poly bag	827928

**2.2.2.9 S 6600e**



**Product description**

- For the floating mullion of double-sashed windows made of timber and timber-aluminium without a centre post
- Processing: with flush cutting of the seal outer edge / hardware rebate dimension to length
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

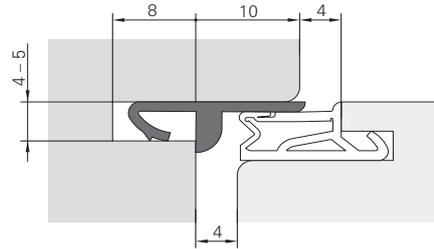
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness
- The screw fixing is neatly covered when the fixed centre post is screwed
- Can be used for 4 mm and 12 mm hardware clearance thanks to the tear-off edge

4 – 5	8	12	–	–	Sash	RAL 9004	Signal black	TPE	200 m	Pane	827213
						RAL 7015	Slate grey	TPE	200 m	Pane	827205
						RAL 7040	Window grey	TPE	200 m	Pane	820974
						RAL 9016	Traffic white	TPE	200 m	Pane	818221
						RAL 1013	Pearl white	TPE	200 m	Pane	839700
						RAL 8014	Sepia brown	TPE	200 m	Pane	827212
						RAL 1001	Beige	TPE	200 m	Pane	827210



**2.2.2.10 S 6544**



**Product description**

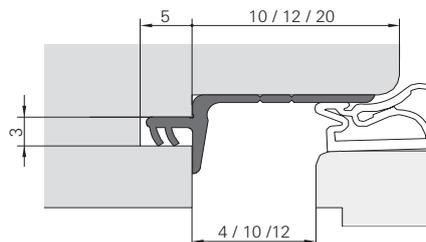
- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: with flush cutting of the seal outer edge / hardware rebate dimension to length
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness

4 – 5	8	10	–	–	Sash	RAL 9004	Signal black	TPE	200 m	Spool	827647
						RAL 7015	Slate grey	TPE	200 m	Spool	827873
						RAL 9016	Traffic white	TPE	200 m	Spool	827648
						RAL 8014	Sepia brown	TPE	200 m	Spool	798557

**2.2.2.11 S 7583a**



**Product description**

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: with flush cutting of the seal outer edge / hardware rebate dimension to length
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

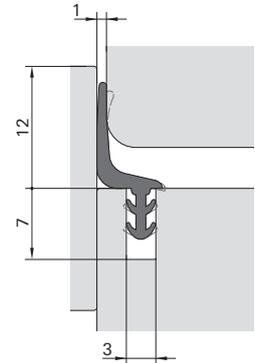
**Advantages at a glance**

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness
- For room-side sealing of the hardware rebate
- Can be used for 4 mm, 10 mm and 12 mm hardware clearance thanks to the tear-off edge

3	5	20	–	–	Sash	RAL 9004	Signal black	TPE	150 m	Spool	827589
						RAL 7015	Slate grey	TPE	150 m	Spool	827586
						RAL 7040	Window grey	TPE	150 m	Spool	827587
						RAL 9016	Traffic white	TPE	150 m	Spool	827590
						RAL 8014	Sepia brown	TPE	150 m	Spool	827588
						RAL 1001	Beige	TPE	150 m	Spool	827584



**2.2.2.12 S 7561**



**Product description**

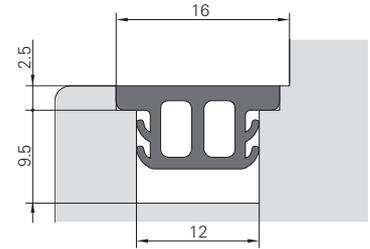
- For the overlap and the fixed centre post of double-sashed windows without any other type of centre post
- Processing: cut flush with the sash rebate in order to cover the gap between the fixed centre post and frame
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Increased airtightness
- No impact of timber on timber
- No blocking of the coating

3	7	12	1	-	Sash	RAL 9016	Traffic white	TPE	300 m	Spool	825963
						RAL 7015	Slate grey	TPE	300 m	Spool	826291
						RAL 9004	Signal black	TPE	300 m	Spool	826010

**2.2.2.13 S 3117f**



**Product description**

- For covering the hardware groove
- Processing: push into the hardware groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Prevents deposits of dirt and foreign matter in the open hardware groove

12	9.5	2.5	-	-	Top Bottom Left Right Sash	RAL 9004 RAL 7040 RAL 9016 RAL 8014	Signal black Window grey Traffic white Sepia brown	TPE TPE TPE TPE	100 m 100 m 100 m 100 m	Spool Spool Spool Spool	827818 827745 827805 827895



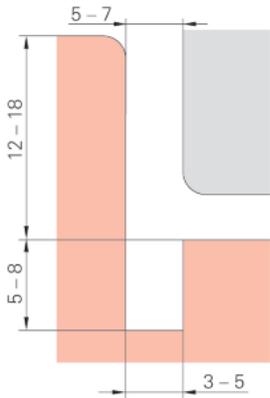
### 2.2.3 Inner seals | Sash rebate seals

The inner seal, also known as a sash rebate seal in timber-aluminium elements, is a seal type that is attached in the centre of the window profile in order to ensure that the sealing between the movable window sash and the rigid window frame is as airtight as possible. The seal is attached in a groove either to the window sashes or in the centre of the frame. When a window sash is closed, the seal presses against the frame. The design of the seal with its special shape ensures uniform pressure distribution and reliable sealing. Closing noises are reduced and the gap between the sash and frame is sealed.

Inner seals for windows can be made of various materials, such as synthetic rubber (EPDM), silicone or compact / foamed TPE. They are an important component when it comes to the energy efficiency of windows, as they can help reduce heat loss through points that lack a tight seal. They prevent draughts and unwanted moisture from entering, and contribute to sound insulation as well as to the creation of a more comfortable room climate and living environment.



**2.2.3.1 Inner seals | Sash rebate seals**



**SV 105** → 147



**SP 7603** → 148



**S 7503b** → 149



**SP 125** → 150



**SV 125** → 151



**S 6624** → 152



**SP 1212d** → 153



**SP 7612** → 154



**S 6512a** → 155



**SP 7715** → 156



**S 6515a** → 157



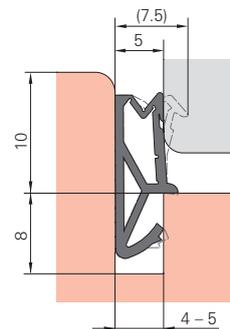
**SP 7718** → 158



**S 6518a** → 159



### 2.2.3.2 SV 105



#### Product description

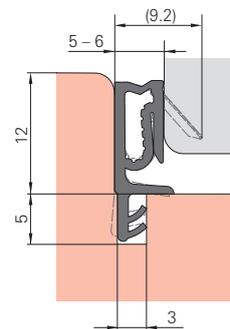
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W34252
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	10	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827543
						RAL 9016	Traffic white	TPE	150 m	Spool	827541
						RAL 8014	Sepia brown	TPE	150 m	Spool	827542

### 2.2.3.3 SP 7603



#### Product description

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W43243
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

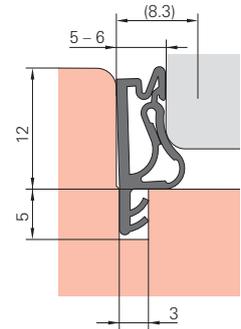
#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	820899
						RAL 7015	Slate grey	TPE	150 m	Spool	820898
						RAL 7040	Window grey	TPE	150 m	Spool	827522
						RAL 9016	Traffic white	TPE	150 m	Spool	827521
						RAL 8014	Sepia brown	TPE	150 m	Spool	827524
						RAL 1001	Beige	TPE	150 m	Spool	827520



### 2.2.3.4 S 7503b



#### Product description

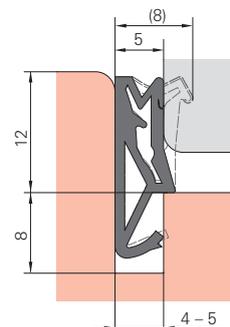
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

#### Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Minimal build-up of closing pressure
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	826842
						RAL 7040	Window grey	TPE	150 m	Spool	820996
						RAL 7015	Slate grey	TPE	150 m	Spool	821672
						RAL 9016	Traffic white	TPE	150 m	Spool	826843
						RAL 8014	Sepia brown	TPE	150 m	Spool	818252
						RAL 1001	Beige	TPE	150 m	Spool	798850

**2.2.3.5 SP 125**



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W36243
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

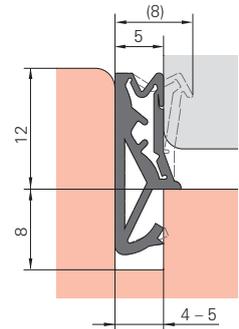
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	808769
						RAL 7015	Slate grey	TPE	150 m	Spool	826987
						RAL 7040	Window grey	TPE	150 m	Spool	810992
						RAL 9016	Traffic white	TPE	150 m	Spool	826989
						RAL 8014	Sepia brown	TPE	150 m	Spool	823315
						RAL 1001	Beige	TPE	150 m	Spool	826985



**2.2.3.6 SV 125**



**Product description**

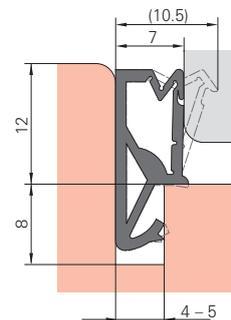
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Can be combined with existing floating-mullion solutions

											
8	4 – 5	12	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	826983
						RAL 7015	Slate grey	TPE	150 m	Spool	826981
						RAL 7040	Window grey	TPE	150 m	Spool	798853
						RAL 9016	Traffic white	TPE	150 m	Spool	826984
						RAL 8014	Sepia brown	TPE	150 m	Spool	826982
						RAL 1001	Beige	TPE	150 m	Spool	826979

**2.2.3.7 S 6624**



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W34242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

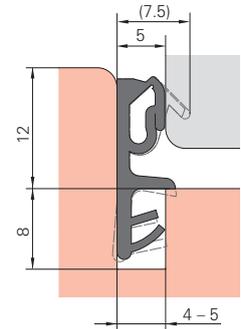
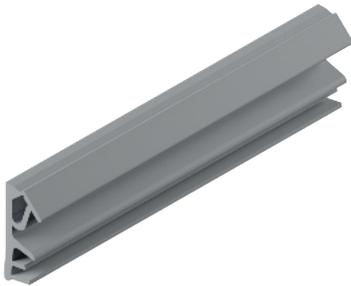
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	7	Steep	Top Bottom Left Right Sash	RAL 9004 RAL 9016	Signal black Traffic white	TPE TPE	120 m 120 m	Spool Spool	No
											827491 827490



### 2.2.3.8 SP 1212d



#### Product description

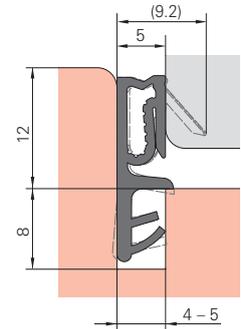
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827532
						RAL 7015	Slate grey	TPE	150 m	Spool	827529
						RAL 7040	Window grey	TPE	150 m	Spool	827530
						RAL 9016	Traffic white	TPE	150 m	Spool	827533
						RAL 8014	Sepia brown	TPE	150 m	Spool	827531
						RAL 1001	Beige	TPE	150 m	Spool	827853

2.2.3.9 SP 7612



Product description

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W43233
- Operating force: EN 13115 – Class 3
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

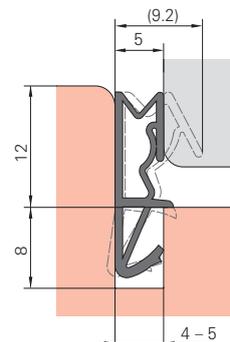
Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827511
						RAL 7015	Slate grey	TPE	150 m	Spool	827498
						RAL 7040	Window grey	TPE	150 m	Spool	827510
						RAL 9016	Traffic white	TPE	150 m	Spool	827508
						RAL 8014	Sepia brown	TPE	150 m	Spool	827594
						RAL 1001	Beige	TPE	150 m	Spool	827509



**2.2.3.10 S 6512a**



**Product description**

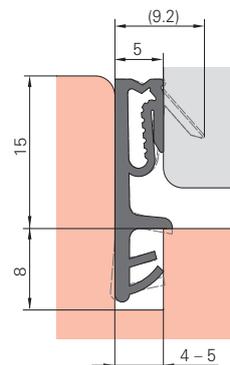
- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: welding
- Classification: EN 12365-1 – W46222
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

–	–	–	–	–	–	RAL 9004	Signal black	–	180 m	Pane	798549
4 – 5	8	12	5	Steep	Top	RAL 7015	Slate grey	TPE	180 m	Pane	827708
					Bottom	RAL 7040	Window grey	TPE	180 m	Pane	798547
					Left	RAL 9016	Traffic white	TPE	180 m	Pane	798550
					Right	RAL 8014	Sepia brown	TPE	180 m	Pane	798548
					Sash	RAL 1001	Beige	TPE	180 m	Pane	798546

**2.2.3.11 SP 7715**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

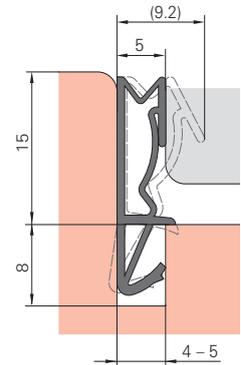
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	15	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	100 m	Spool	827267
						RAL 7015	Slate grey	TPE	100 m	Spool	827266
						RAL 7040	Window grey	TPE	100 m	Spool	827262
						RAL 9016	Traffic white	TPE	100 m	Spool	827264
						RAL 8014	Sepia brown	TPE	100 m	Spool	827707
						RAL 1001	Beige	TPE	100 m	Spool	827265



**2.2.3.12 S 6515a**



**Product description**

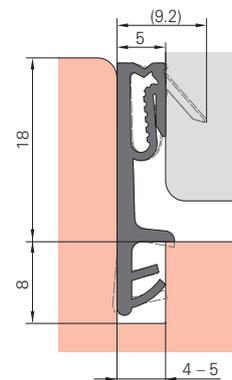
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W46232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	15	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	144 m	Pane	798554
						RAL 7015	Slate grey	TPE	144 m	Pane	798697
						RAL 7040	Window grey	TPE	144 m	Pane	798552
						RAL 9016	Traffic white	TPE	144 m	Pane	798555
						RAL 8014	Sepia brown	TPE	144 m	Pane	798553
						RAL 1001	Beige	TPE	144 m	Pane	798551

**2.2.3.13 SP 7718**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

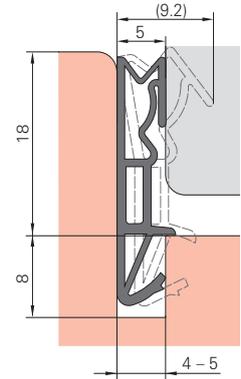
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	18	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	125 m	Spool	827538
						RAL 7015	Slate grey	TPE	125 m	Spool	827757
						RAL 7040	Window grey	TPE	125 m	Spool	827537
						RAL 9016	Traffic white	TPE	125 m	Spool	827539
						RAL 8014	Sepia brown	TPE	125 m	Spool	827690
						RAL 1001	Beige	TPE	125 m	Spool	827540



**2.2.3.14 S 6518a**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W45232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	18	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	126 m	Pane	798800
						RAL 7015	Slate grey	TPE	126 m	Pane	826363
						RAL 7040	Window grey	TPE	126 m	Pane	826397
						RAL 9016	Traffic white	TPE	126 m	Pane	798801
						RAL 8014	Sepia brown	TPE	126 m	Pane	798802
						RAL 1001	Beige	TPE	126 m	Pane	798807

## **2.2.4 Internal stop seals | Overlap seals**

The stop seal, also known as an overlap seal in timber-aluminium elements, is a window seal that is attached between the window sash and window frame. Two gasket seals are possible here – one on the inner side and one on the outer side of the window. It is therefore fitted either as an external seal on the outside of the frame and/or as an internal seal on the inside of the window sash.

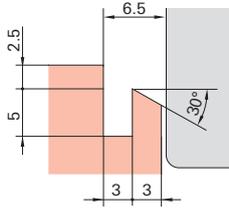
Stop seals seal the gap between the window frame and window sash against draughts and moisture from the room air. This largely prevents condensation in the hardware rebate.

Stop seals are made of a flexible material like synthetic rubber (EPDM) or compact / foamed TPE, and are clamped into a groove. They are an effective way of preventing draughts entering or warm room air escaping. Furthermore, stop seals also help reduce external noises and create a comfortable room climate and living environment.





2.2.4.1 Internal stop seals | Overlap seals



**S 7494**

→ 162



**SP 33b**

→ 163



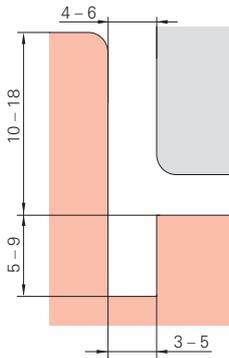
**SV 33**

→ 164



**DS 6677**

→ 165



**SP 7610**

→ 166



**SP 103a**

→ 167



**S 7503b**

→ 168



**SP 7603**

→ 169



**SP 7715**

→ 170



**SP 7718**

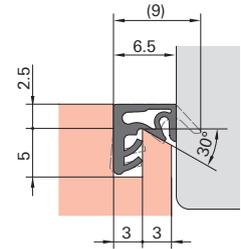
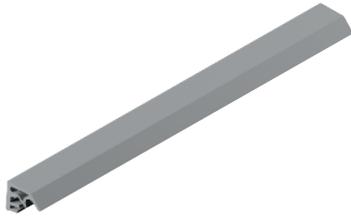
→ 171



**SP 6918**

→ 172

2.2.4.2 S 7494



**Product description**

- For the sash of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

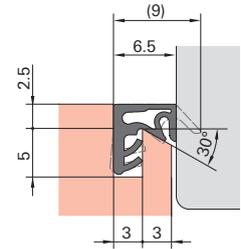
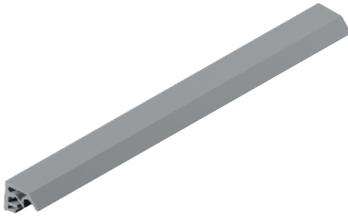
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Smooth installation on the timber rebate through pre-tensioning in the foot area
- Optimal hold in the groove thanks to two soft foot lips

3	5	2.5	6.5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827771
						RAL 7015	Slate grey	TPE	250 m	Spool	827769
						RAL 7040	Window grey	TPE	250 m	Spool	859043
						RAL 9016	Traffic white	TPE	250 m	Spool	827694
						RAL 8014	Sepia brown	TPE	250 m	Spool	827770
						RAL 1001	Beige	TPE	250 m	Spool	827695



2.2.4.3 S 7494



Product description

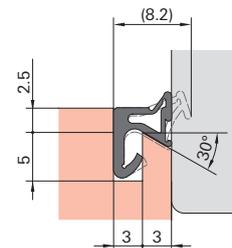
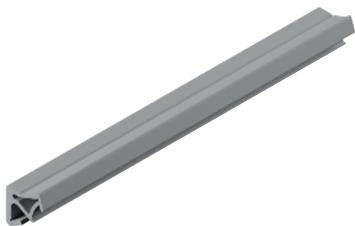
- For the sash of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Smooth installation on the timber rebate through pre-tensioning in the foot area
- Optimal hold in the groove thanks to two soft foot lips

3	5	2.5	6.5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827771
						RAL 7015	Slate grey	TPE	250 m	Spool	827769
						RAL 7040	Window grey	TPE	250 m	Spool	859043
						RAL 9016	Traffic white	TPE	250 m	Spool	827694
						RAL 8014	Sepia brown	TPE	250 m	Spool	827770
						RAL 1001	Beige	TPE	250 m	Spool	827695

### 2.2.4.4 SV 33



#### Product description

- For the sash of windows and leaf of balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

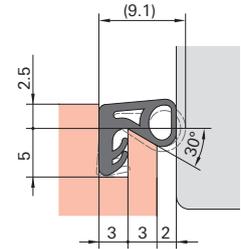
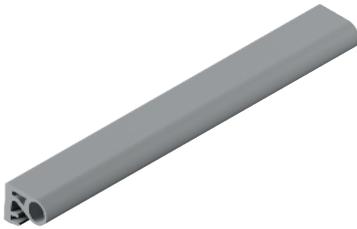
#### Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake

3	5	2.5	6	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827015
						RAL 7040	Window grey	TPE	200 m	Spool	827013
						RAL 9016	Traffic white	TPE	200 m	Spool	827016
						RAL 8014	Sepia brown	TPE	200 m	Spool	827014
						RAL 1001	Beige	TPE	200 m	Spool	827012



2.2.4.5 DS 6677



Product description

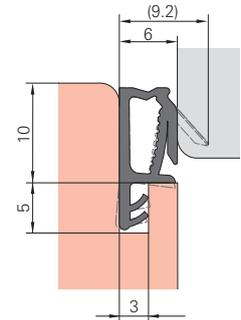
- For the overlap of windows and balcony doors made of timber and timber-aluminium
- Processing: notching
- Classification: EN 12365-1 – W25276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

Advantages at a glance

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Also for subsequent installation in the overlap of window sashes (box windows)
- Installation dimensions correspond to those of standard, small overlap seals

3	5	2.5	8	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	Silicone	100 m	Bundle	817457
						RAL 9016	Traffic white	Silicone	100 m	Bundle	798526

2.2.4.6 SP 7610



**Product description**

- For the overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W32233
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – NPD

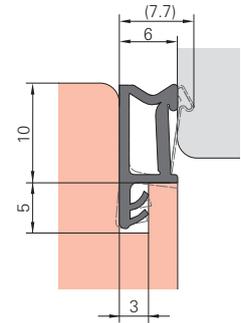
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

3	5	10	6	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827765
						RAL 7015	Slate grey	TPE	200 m	Spool	828032
						RAL 7040	Window grey	TPE	200 m	Spool	827680
						RAL 9016	Traffic white	TPE	200 m	Spool	827611
						RAL 8014	Sepia brown	TPE	200 m	Spool	827898
						RAL 1001	Beige	TPE	200 m	Spool	827784



### 2.2.4.7 SP 103a



#### Product description

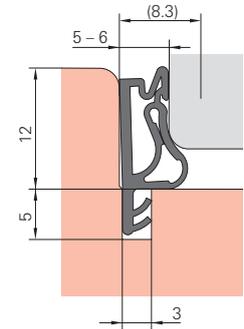
- For the sash of windows and leaf of balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W25233
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

-	-	-	-	-	-	RAL 9004	Signal black	-	200 m	Spool	807674
3	5	10	6	Steep	Top	RAL 7015	Slate grey	TPE	200 m	Spool	826992
					Bottom	RAL 7040	Window grey	TPE	200 m	Spool	807672
					Left	RAL 9016	Traffic white	TPE	200 m	Spool	807735
					Right	RAL 8014	Sepia brown	TPE	200 m	Spool	807673
					Sash	RAL 1001	Beige	TPE	200 m	Spool	826990

2.2.4.8 S 7503b



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W35232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

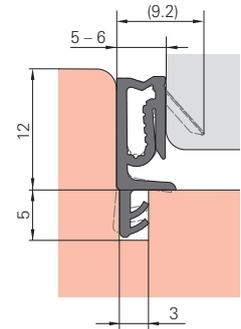
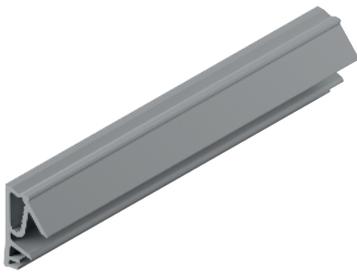
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Minimal build-up of closing pressure
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep	Top Bottom Left Right Sash	RAL 9004 RAL 7040 RAL 7015 RAL 9016 RAL 8014 RAL 1001	Signal black Window grey Slate grey Traffic white Sepia brown Beige	TPE	150 m	Spool	826842 820996 821672 826843 818252 798850



2.2.4.9 SP 7603



Product description

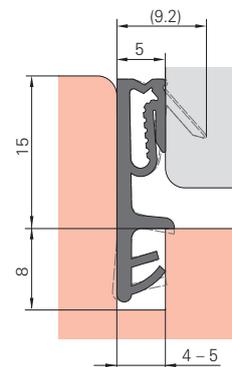
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W43243
- Operating force: EN 13115 – Class 2
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Stop distance in the sash rebate and central rebate 5 mm, in the overlap 6 mm

Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Seal suitable for various installation situations
- Can be combined with existing floating-mullion solutions

3	5	12	5 – 6	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	820899
						RAL 7015	Slate grey	TPE	150 m	Spool	820898
						RAL 7040	Window grey	TPE	150 m	Spool	827522
						RAL 9016	Traffic white	TPE	150 m	Spool	827521
						RAL 8014	Sepia brown	TPE	150 m	Spool	827524
						RAL 1001	Beige	TPE	150 m	Spool	827520

2.2.4.10 SP 7715



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

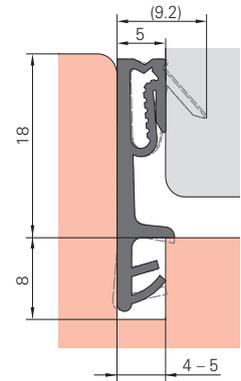
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	15	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	100 m	Spool	827267
						RAL 7015	Slate grey	TPE	100 m	Spool	827266
						RAL 7040	Window grey	TPE	100 m	Spool	827262
						RAL 9016	Traffic white	TPE	100 m	Spool	827264
						RAL 8014	Sepia brown	TPE	100 m	Spool	827707
						RAL 1001	Beige	TPE	100 m	Spool	827265



**2.2.4.11 SP 7718**



**Product description**

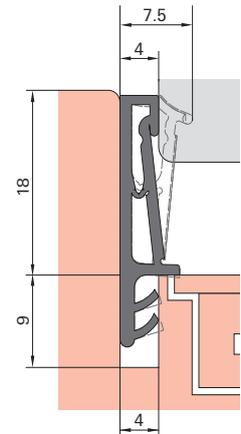
- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	18	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004 RAL 7015 RAL 7040 RAL 9016 RAL 8014 RAL 1001	Signal black Slate grey Window grey Traffic white Sepia brown Beige	TPE	125 m	Spool	Nº
											827538
											827757
											827537
											827539
											827690
											827540

2.2.4.12 SP 6918



**Product description**

- For the overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W36263
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4	9	18	4	Steep	Top Bottom Left Right Sash	Signal black	RAL 9004	TPE	100 m	Spool	827527
						Window grey	RAL 7040	TPE	100 m	Spool	834005
						Traffic white	RAL 9016	TPE	100 m	Spool	827528
						Sepia brown	RAL 8014	TPE	100 m	Spool	827526
						Beige	RAL 1001	TPE	100 m	Spool	827525



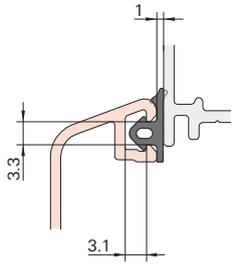
### 2.2.5 Frame seals

The frame seal is a seal type that is generally used for windows and balcony doors in order to ensure that the sealing between the aluminium shells and the window sashes is as airtight as possible.

The seals are usually made of a robust material like synthetic rubber (EPDM), silicone or PVC, which is weather-resistant when exposed to sun, rain and snow. They are an effective way of preventing draughts, driving rain and dirt particles from getting in.



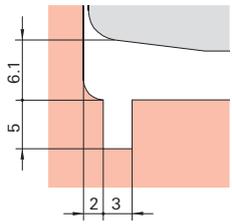
### 2.2.5.1 Frame seals



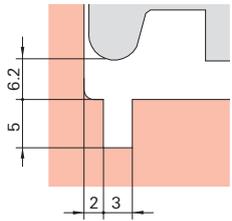
**S 6647** → 175



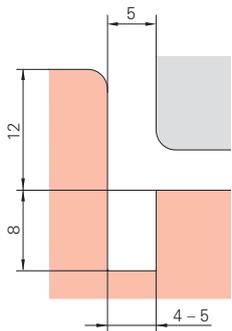
**S 6647a** → 176



**DS 7621** → 177



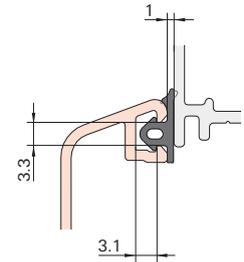
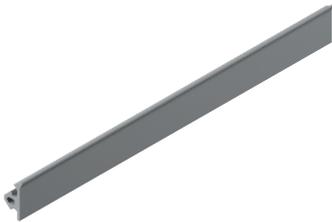
**S 7624** → 178



**SV 512a** → 179



### 2.2.5.2 S 6647



#### Product description

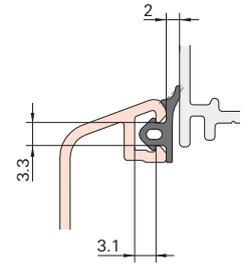
- External stop seal for timber-aluminium windows and balcony doors with a steep turn-in curve
- Processing: notching or butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Seals the joint between the weather strip bar and the sash in timber windows
- Optical finish to the joint between the sash and frame for timber-aluminium windows
- Tighter sealing if subjected to driving rain

3.3	3.1	1	-	Steep	Bottom Left Right Frame	RAL 9004	Signal black	TPE	400 m	Spool	827569
						RAL 7015	Slate grey	TPE	400 m	Spool	827605
						RAL 7040	Window grey	TPE	400 m	Spool	827607
						RAL 9016	Traffic white	TPE	400 m	Spool	827772
						RAL 8014	Sepia brown	TPE	400 m	Spool	827773

**2.2.5.3 S 6647a**



**Product description**

- External stop seal for timber-aluminium windows and balcony doors with a steep turn-in curve
- Processing: notching or butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

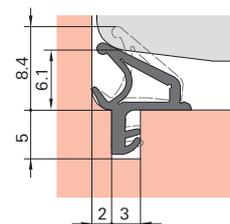
**Advantages at a glance**

- Seals the joint between the weather strip bar and the sash in timber windows
- Optical finish to the joint between the sash and frame for timber-aluminium windows
- Tighter sealing if subjected to driving rain

3.3	3.1	-	2	Steep	Bottom Left Right Frame	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	400 m 400 m	Spool Spool	Nº 827570 827809



## 2.2.5.4 DS 7621



### Product description

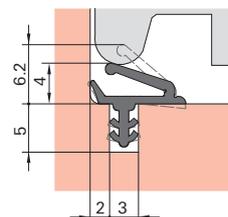
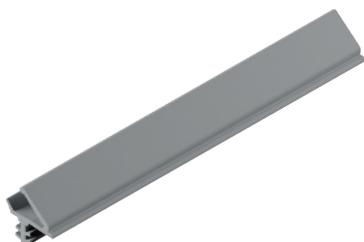
- For the frame of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for other doors
- Processing: notching
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Only insert seals into the lateral groove on the right and left

### Advantages at a glance

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Improved driving rain impermeability in the event of large water volumes and high wind loads
- Prevents water from entering the vertical rebate
- Takes much of the load off the bottom corner area
- Can be used with all common window designs

3	5	6.1	Steep	Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	826232
					RAL 7015	Slate grey	Silicone	50 m	Bundle	826290
					RAL 7040	Window grey	Silicone	50 m	Bundle	827330
					RAL 9016	Traffic white	Silicone	50 m	Bundle	826289
					RAL 8014	Sepia brown	Silicone	50 m	Bundle	826312

**2.2.5.5 S 7624**



**Product description**

- For the frame of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W31222
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Only insert seals into the lateral groove on the right and left

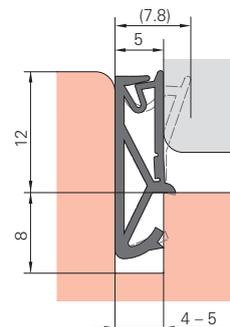
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Improved driving rain impermeability in the event of large water volumes and high wind loads
- Prevents water from entering the vertical rebate
- Takes much of the load off the bottom corner area
- Can be used with all common window designs

3	5	-	4	Steep	Left Right Frame	RAL 9004	Signal black	TPE	250 m	Spool	827583
						RAL 7015	Slate grey	TPE	250 m	Spool	827582
						RAL 7040	Window grey	TPE	250 m	Spool	827581
						RAL 9016	Traffic white	TPE	250 m	Spool	827580
						RAL 8014	Sepia brown	TPE	250 m	Spool	827652
					RAL 1001	Beige	TPE	250 m	Spool	827790	



### 2.2.5.6 SV 512a



#### Product description

- For the frame of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve
- Processing: notching or butt joints
- Classification: EN 12365-1 – W34243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

#### Advantages at a glance

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake

4 – 5	8	12	5	Steep	Top Bottom Left Right Frame	RAL 9004	Signal black	TPE	120 m	Spool	827553
						RAL 9016	Traffic white	TPE	120 m	Spool	827610
						RAL 8014	Sepia brown	TPE	120 m	Spool	827670
						RAL 1001	Beige	TPE	120 m	Spool	827940

## 2.2.6 Internal glazing seals

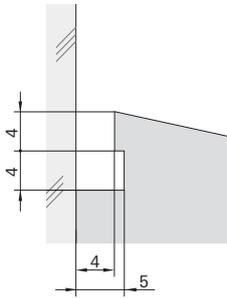
The internal glazing seal is a seal type that is used for windows in order to ensure that the sealing between the glass and frame is as airtight as possible. As part of the dry glazing, it reliably seals the gap between the glass and glazing bead or frame, and prevents moisture from entering the glass rebate. The seal is attached between the glass and the glazing bead or the frame groove, and sealing is ensured via the seal compression. This is a neat, fast and economical alternative to wet glazing.

Glazing seals can be made of various materials, such as synthetic rubber (EPDM), silicone or compact / foamed TPE. They are an important component when it comes to the energy efficiency of windows, as they can help reduce heat loss through points that lack a tight seal, minimise external noises and create a more comfortable room climate and living environment.





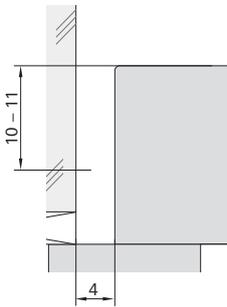
### 2.2.6.1 Internal glazing seals



**SV 2** → 182



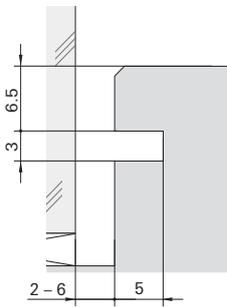
**S 7375 A** → 183



**S 7392 A** → 184



**S 7614** → 185



**S 7632** → 186



**S 7633** → 187



**S 7634** → 188

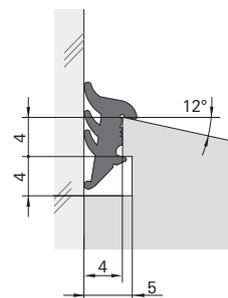
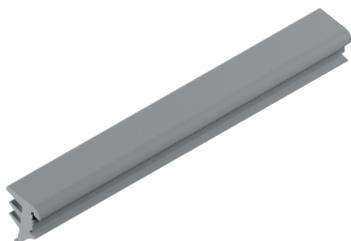


**S 7635** → 189



**S 7636** → 190

**2.2.6.2 SV 2**



**Product description**

- As internal dry glazing of windows and balcony doors made of timber and timber-aluminium
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

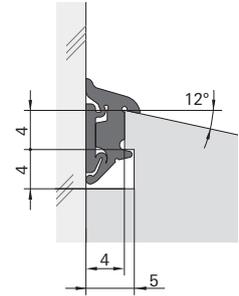
**Advantages at a glance**

- Equivalent to glazing without glazing tape (ift guideline 9/83)
- Nail in glazing beads so that they are concealed / visible

5	4	4	4	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	798868
						RAL 9016	Traffic white	TPE	200 m	Spool	798584
						RAL 8014	Sepia brown	TPE	200 m	Spool	798869
						RAL 1001	Beige	TPE	200 m	Spool	798583



**2.2.6.3 S 7375 A**



**Product description**

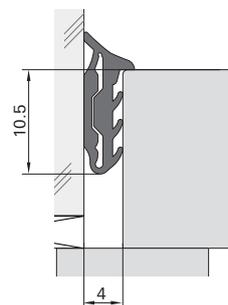
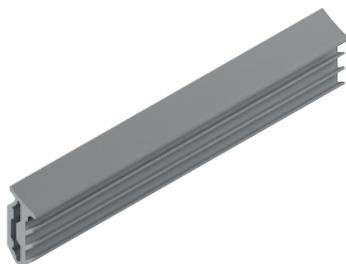
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Perfect hold in the groove even for larger tolerances by fixing on the pane of glass with adhesive tape
- Seal and adhesive tape inseparably connected
- Very simple installation thanks to 'floating in'

5	4	4	4	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827602
						RAL 7015	Slate grey	TPE	200 m	Spool	827704
						RAL 7040	Window grey	TPE	200 m	Spool	828019
						RAL 9016	Traffic white	TPE	200 m	Spool	826831
						RAL 8014	Sepia brown	TPE	200 m	Spool	827668
						RAL 1001	Beige	TPE	200 m	Spool	827595

**2.2.6.4 S 7392 A**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

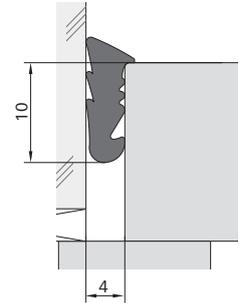
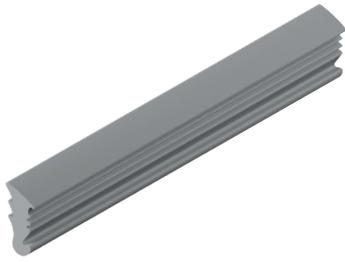
**Advantages at a glance**

- Perfect hold in the groove even for larger tolerances by fixing on the pane of glass with adhesive tape
- Seal and adhesive tape inseparably connected
- Very simple installation thanks to ‘floating in’

4	11	-	4	-	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	250 m 250 m	Spool Spool	827835 827493



**2.2.6.5 S 7614**



**Product description**

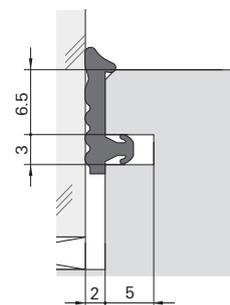
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Wedge profile
- Simple and rapid installation
- Clear and uniform view

4	-	-	4	-	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	400 m 400 m	Spool Spool	826223 826224

**2.2.6.6 S 7632**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

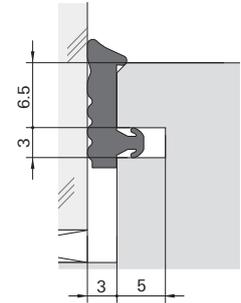
**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	5	6.5	2	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	300 m	Spool	827559
						RAL 7015	Slate grey	TPE	300 m	Spool	827558
						RAL 7040	Window grey	TPE	300 m	Spool	827776



**2.2.6.7 S 7633**



**Product description**

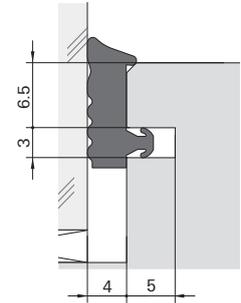
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	5	6.5	3	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827808
						RAL 7015	Slate grey	TPE	250 m	Spool	827560
						RAL 7040	Window grey	TPE	250 m	Spool	827561

**2.2.6.8 S 7634**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

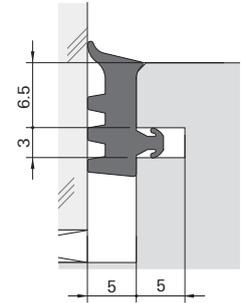
**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	5	6.5	4	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827696
						RAL 7015	Slate grey	TPE	200 m	Spool	827829
						RAL 7040	Window grey	TPE	200 m	Spool	827664



**2.2.6.9 S 7635**



**Product description**

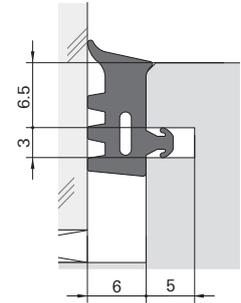
- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	4	6.5	5	–	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	150 m 150 m	Spool Spool	827563 827562

**2.2.6.10 S 7636**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

3	4	6.5	6	–	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	150 m 150 m	Spool Spool	827564 827495



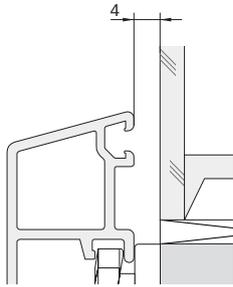
## 2.2.7 External glazing seals

The external glazing seal is a seal type that is generally used for windows in order to ensure that the sealing between the glass and frame is as airtight as possible. Seals made of high-quality TPE stand out thanks to their high tolerance intake. They reliably compensate for glass tolerances and boast high weather resistance. This is a neat, fast and economical alternative to wet glazing.

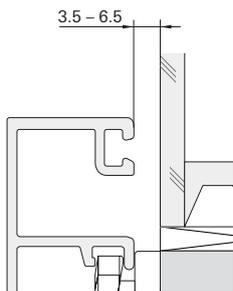
The seal is attached between the glass and the glazing bead or the frame groove, and sealing is ensured via the corresponding seal compression. The seal forms a barrier that prevents water, dust or air from being able to enter through the gap between the frame and glass.



### 2.2.7.1 External glazing seals



**SP 6881b** → 193



**DS 7620** → 194



**SP 7916 MC** → 195



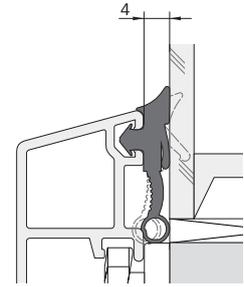
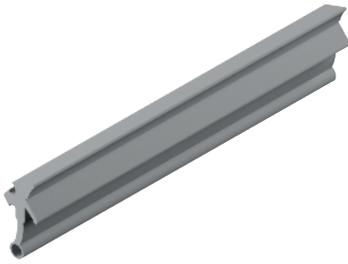
**SP 7933 MC** → 196



**DS 7354c** → 197



**2.2.7.2 SP 6881b**



**Product description**

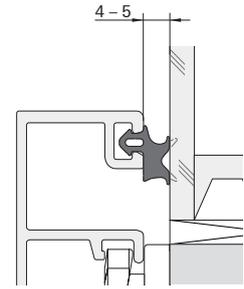
- External glazing seal for timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Foot with sliding film ensures easy installation by machine and by hand
- High tolerance intake in the retaining groove
- Corner joints can be welded without difficulty

2.6	3	-	4	-	Top Bottom Left Right Frame	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	80 m 80 m	Spool Spool	Nº 827567 827566

**2.2.7.3 DS 7620**



**Product description**

- External glazing seal for timber-aluminium windows and balcony doors
- Processing: butt joints or mitred, depending on the aluminium frame
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

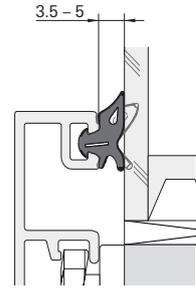
**Advantages at a glance**

- Seals the joint between the weather strip bar and the sash in timber windows
- Optical finish to the joint between the sash and frame for timber-aluminium windows
- Tighter sealing if subjected to driving rain

2.7	2.8	-	4 – 5	-	Bottom Left Right Frame	RAL 9004	Signal black	Silicone	100 m	Spool	827245
						RAL 7015	Slate grey	Silicone	100 m	Spool	826169



### 2.2.7.4 SP 7916 MC



#### Product description

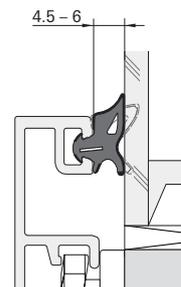
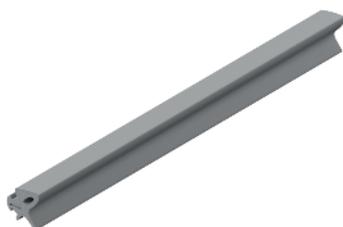
- External glazing seal for timber-aluminium windows and balcony doors
- Processing: Installation without creating a corner
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

#### Advantages at a glance

- Master Corner product family: the seal can simply be placed around the corner for installation – the usual processing steps like cutting, notching or welding are no longer needed
- Hard coating on the foot lips
- Simple installation

3	3	-	3.5 – 5	-	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	220 m 220 m	Spool Spool	2020662 2020661

**2.2.7.5 SP 7933 MC**



**Product description**

- External glazing seal for timber-aluminium windows and balcony doors
- Processing: Installation without creating a corner
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

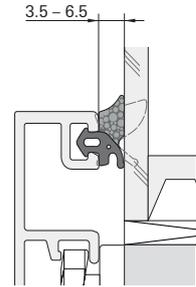
**Advantages at a glance**

- Master Corner product family: the seal can simply be placed around the corner for installation – the usual processing steps like cutting, notching or welding are no longer needed
- Hard coating on the foot lips
- Simple installation

3	3	-	4.5 – 6	-	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	2010078



**2.2.7.6 DS 7354c**



**Product description**

- External glazing seal for timber-aluminium windows and balcony doors
- Processing: butt joints or mitred, depending on the aluminium frame
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Seals the joint between the weather strip bar and the sash in timber windows
- Optical finish to the joint between the sash and frame for timber-aluminium windows
- Tighter sealing if subjected to driving rain

3	3	-	3.5 – 6.5	-	Bottom Left Right Frame	RAL 9004 RAL 7015	Signal black Slate grey	Silicone Silicone	125 m 125 m	Spool Spool	2048548 2048232

## 2.2.8 Window sill seals

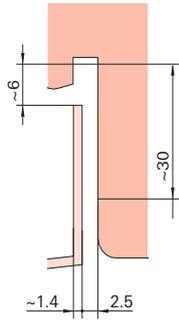
Deventer seals ensure a clean and tight connection between the window frame and window sill profile. The sealing profiles are characterised by easy installation and a secure fit. The window sill seal is attached to the bottom of the window sill and ensures that no moisture or dirt can enter the gap between the window sill and frame.

Window sill seals can be made of various materials, such as synthetic rubber (EPDM) and compact or foamed TPE. They help contribute to the energy efficiency of windows by reducing heat loss through points that lack a tight seal. Window sill seals also help to reduce the transmission of noise from outside to inside, and thereby to create a more comfortable room climate and living environment.

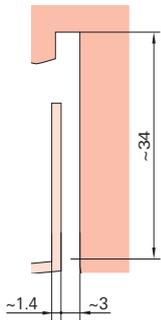




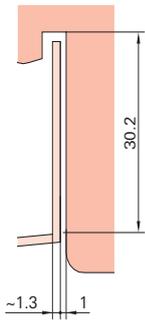
### 2.2.8.1 Window sill seals



**S 7702** → 200



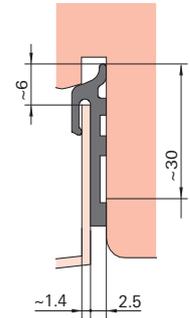
**S 7318 A** → 201



**S 7574 A** → 202



**2.2.8.2 S 7702**



**Product description**

- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

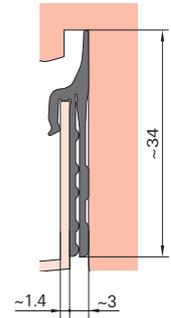
**Advantages at a glance**

- Thermoplastic elastomers ensure better weather resistance than PVC

0	0	24	2.5	-	Bottom Frame	RAL 9004	Signal black	TPE	125 m	Spool	827517
						RAL 7040	Window grey	TPE	125 m	Spool	827791
						RAL 9016	Traffic white	TPE	125 m	Spool	827608



### 2.2.8.3 S 7318 A



#### Product description

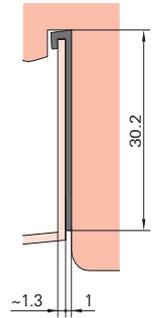
- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

#### Advantages at a glance

- Thermoplastic elastomers ensure better weather resistance than PVC
- Adhesive tape enables precise positioning during installation

0	0	34	3	-	Bottom Frame	RAL 9004	Signal black	TPE	100 m	Spool	826503

**2.2.8.4 S 7574 A**



**Product description**

- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

**Advantages at a glance**

- Thermoplastic elastomers ensure better weather resistance than PVC
- Adhesive tape enables precise positioning during installation

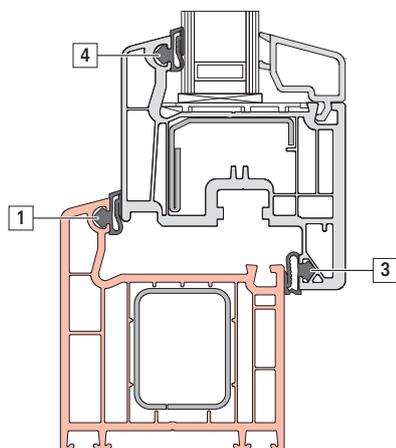
0	0	30.2	1	-	Bottom Frame	RAL 9004	Signal black	TPE	250 m	Spool	827519
						RAL 9016	Traffic white	TPE	250 m	Spool	827689



## 2.3 PVC

### Seals for windows and balcony doors made of PVC

Deventer seals made of compact or foamed TPE and soft PVC are suitable for all frame profile systems. The seals impress with their excellent functionality, outstanding elastic recovery, wide selection of colours and ease of processing. Deventer offers customised solutions with a sliding coating for improved installation, material components with high frictional resistance for a secure fit, and expansion restrictors to prevent shrinking back and overexpansion.



#### Example of use

Installation position of the seal	Example seal, type and function	Profile image
1	<b>SP 6919a</b> Stop seal, external, with high tolerance compensation. This seals the frames of the window sash and window frame against each other.	
3	<b>SP 6920a</b> Stop seal, internal. This seals both the window sash and the frame against the window frame.	
4	<b>SP 6919a</b> Glazing seal, external, with high tolerance compensation. Seals the outside of the glass panel to prevent rain and moisture entering.	

#### Advantages

- High tolerance compensation ensures sealing over the entire window sash
- Minimal build-up of closing pressure for effortless locking and unlocking of windows
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality window products

### 2.3.1 External stop seals

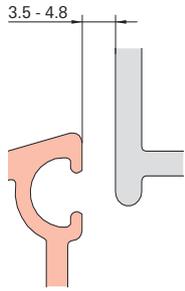
The external stop seal is a seal type that is generally used for windows and balcony doors in order to ensure that the sealing between the rigid frame and the movable sash is as airtight as possible.

External stop seals are usually made from a robust material like synthetic rubber (EPDM), silicone or PVC, which is weather-resistant when exposed to sun, rain and snow. They are an effective way of preventing draughts, driving rain and dirt particles from getting in. The sealing that is achieved contributes to sound insulation, improving the energy efficiency of buildings and creating a more comfortable room climate and living environment.





### 2.3.1.1 External stop seals

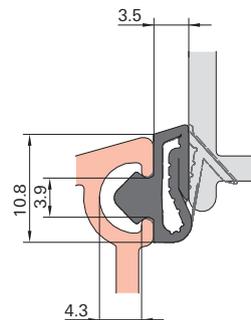
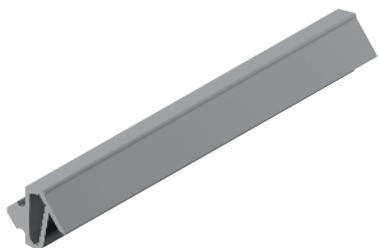


**SP 6919a** → 206



**SP 7685** → 207

**2.3.1.2 SP 6919a**



**Product description**

- External stop seal and external glazing seal for PVC windows and balcony doors
- Processing: welding with system profile
- Classification as a stop seal: EN 12365-1 – W43243
- Classification as a glazing seal: EN 12365-1 – G43243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Suitable for the VEKA system

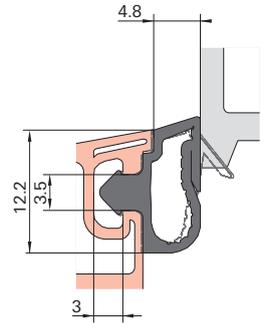
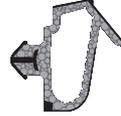
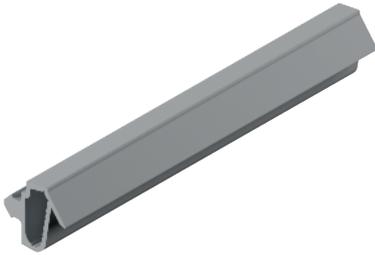
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- High frictional resistance ensures a secure fit when cutting
- Profile foot with sliding film ensures easy installation by machine and by hand

3.9	4.3	10.8	3.5	–	Top Bottom Left Right Frame Sash	RAL 9004	Signal black	TPE	150 m	Spool	828027



**2.3.1.3 SP 7685**



**Product description**

- External glazing seal and external stop seal for PVC windows and balcony doors
- Processing: welding with system profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Suitable for the KBE system

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- High frictional resistance ensures a secure fit when cutting
- Profile foot with sliding film ensures easy installation by machine and by hand

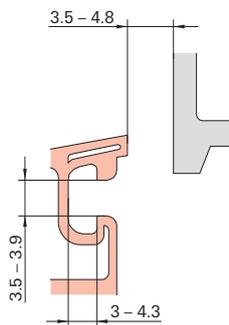
											
3.5	3	12.2	4.8	–	Top Bottom Left Right Frame Sash	RAL 9004	Signal black	TPE	200 m	Spool	826521

## 2.3.2 External glazing seals

The external glazing seal is a seal type that is generally used for windows in order to ensure that the sealing between the glass and the frame is as airtight as possible. Deventer seals made of high-quality TPE stand out thanks to their high tolerance intake. The glass tolerances are reliably compensated for.

The seal is attached between the glass and the glazing bead or the frame groove, and sealing is ensured via the corresponding seal compression. The glazing seal usually consists of high-quality TPE with high weather resistance. The seal forms a barrier that prevents water, dust or air from being able to enter through the gap between the frame and glass. An intact external glazing seal is important for preventing moisture and draughts from entering the window sash.

### 2.3.2.1 External glazing seals



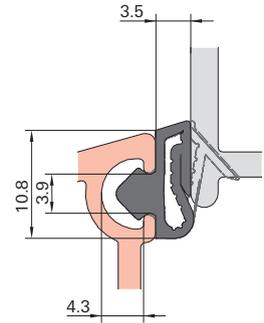
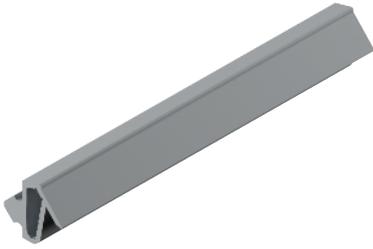
SP 6919a → 209



SP 7685 → 210



**2.3.2.2 SP 6919a**



**Product description**

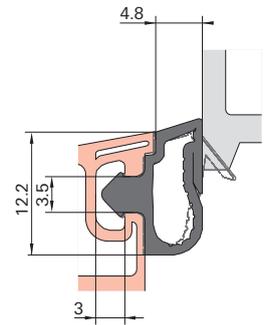
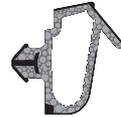
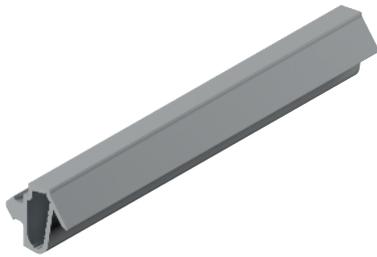
- External stop seal and external glazing seal for PVC windows and balcony doors
- Processing: welding with system profile
- Classification as a stop seal: EN 12365-1 – W43243
- Classification as a glazing seal: EN 12365-1 – G43243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Suitable for the VEKA system

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- High frictional resistance ensures a secure fit when cutting
- Profile foot with sliding film ensures easy installation by machine and by hand

3.9	4.3	10.8	3.5	–	Top Bottom Left Right Frame Sash	RAL 9004	Signal black	TPE	150 m	Spool	828027

2.3.2.3 SP 7685



**Product description**

- External glazing seal and external stop seal for PVC windows and balcony doors
- Processing: welding with system profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Suitable for the KBE system

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- High frictional resistance ensures a secure fit when cutting
- Profile foot with sliding film ensures easy installation by machine and by hand

3.5	3	12.2	4.8	-	Top Bottom Left Right Frame Sash	RAL 9004	Signal black	TPE	200 m	Spool	826521



### 2.3.3 Internal stop seals

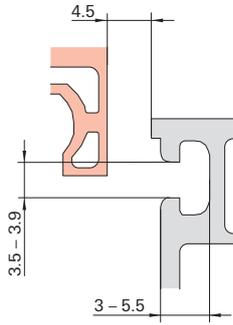
These improve the sound insulation of windows against traffic noise and prevent warm, humid room air from entering the hardware rebate (which would then cause condensation).

The internal stop seal is a window seal that is attached between the window sash and window frame. It seals the gap between the window frame and window sash against draughts and moisture from the room air. This largely prevents condensation in the hardware rebate.

Stop seals are made of a flexible material like synthetic rubber (EPDM) or compact / foamed TPE, and are clamped into a groove. They are an effective way of preventing draughts entering or warm room air escaping. Furthermore, stop seals also help reduce external noises and create a comfortable room climate and living environment.



### 2.3.3.1 Internal stop seals



**SP 6920a**

→ 213

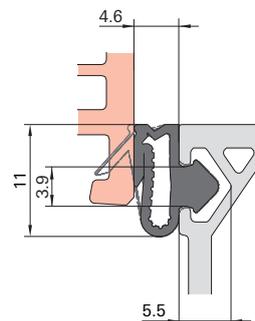
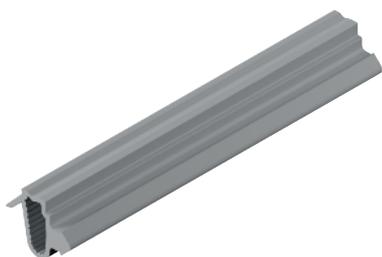


**SP 7686**

→ 214



### 2.3.3.2 SP 6920a



#### Product description

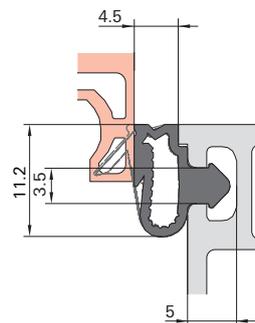
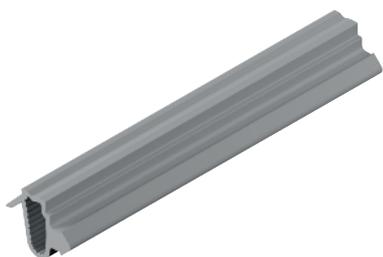
- Internal stop seal for PVC windows and balcony doors
- Processing: notching or welding
- Classification: EN 12365-1 – W35243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Suitable for the VEKA system

#### Advantages at a glance

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- High frictional resistance ensures a secure fit when cutting
- Profile foot with sliding film ensures easy installation by machine and by hand

3.9	5.5	11	4.6	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827836

**2.3.3.3 SP 7686**



**Product description**

- Internal stop seal for PVC windows and balcony doors
- Processing: welding with system profile
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Suitable for the KBE system

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- High frictional resistance ensures a secure fit when cutting
- Profile foot with sliding film ensures easy installation by machine and by hand

3.5	5	11.2	4.5	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	835657



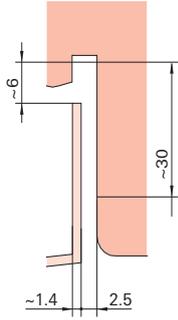
### 2.3.4 Window sill seals

Deventer seals ensure a clean and tight connection between the window frame and window sill profile. The sealing profiles are characterised by easy installation and a secure fit. The window sill seal is attached to the bottom of the window sill and ensures that no moisture or dirt can enter the gap between the window sill and frame.

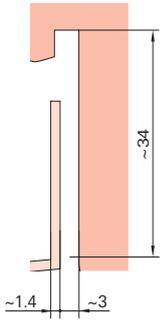
Window sill seals can be made of various materials, such as synthetic rubber (EPDM) and compact or foamed TPE. They help contribute to the energy efficiency of windows by reducing heat loss through points that lack a tight seal. Window sill seals also help to reduce the transmission of noise from outside to inside, and thereby to create a more comfortable room climate and living environment.



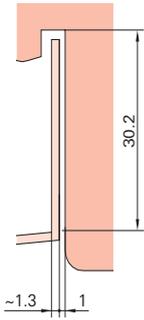
### 2.3.4.1 Window sill seals



**S 7702** → 217



**S 7318 A** → 218

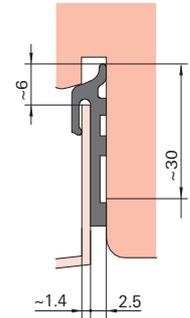


**S 7574 A** → 219





### 2.3.4.2 S 7702



#### Product description

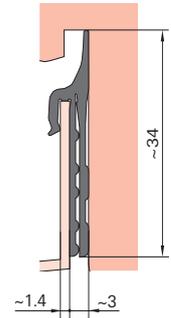
- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

#### Advantages at a glance

- Thermoplastic elastomers ensure better weather resistance than PVC

0	0	24	2.5	-	Bottom Frame	RAL 9004	Signal black	TPE	125 m	Spool	827517
						RAL 7040	Window grey	TPE	125 m	Spool	827791
						RAL 9016	Traffic white	TPE	125 m	Spool	827608

**2.3.4.3 S 7318 A**



**Product description**

- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

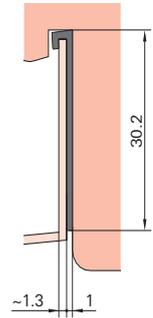
**Advantages at a glance**

- Thermoplastic elastomers ensure better weather resistance than PVC
- Adhesive tape enables precise positioning during installation

0	0	34	3	-	Bottom Frame	RAL 9004	Signal black	TPE	100 m	Spool	826503



### 2.3.4.4 S 7574 A



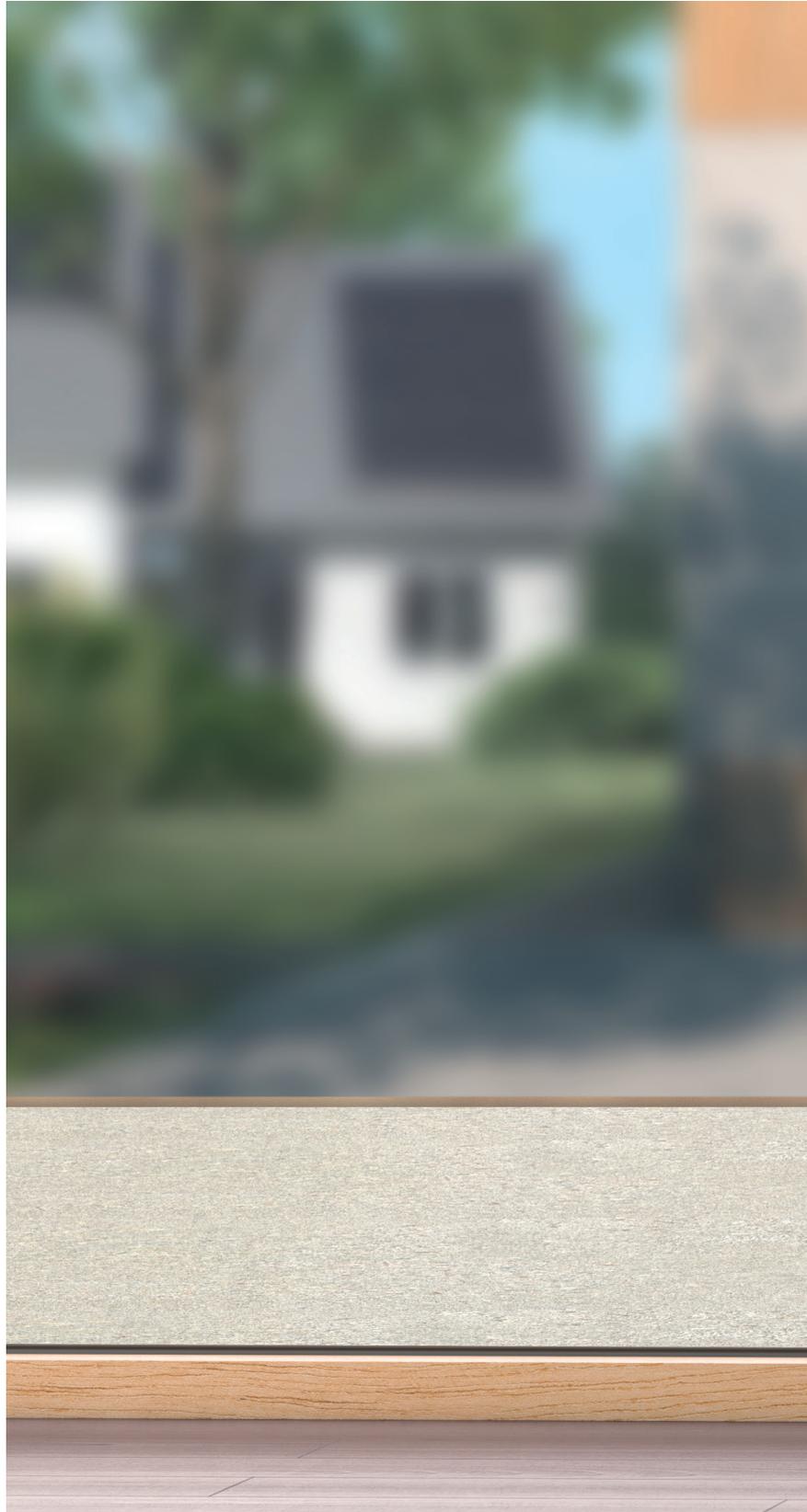
#### Product description

- Reliable connection of the window sill to the frame
- Sealing profile with a proven geometry

#### Advantages at a glance

- Thermoplastic elastomers ensure better weather resistance than PVC
- Adhesive tape enables precise positioning during installation

0	0	30.2	1	-	Bottom Frame	RAL 9004	Signal black	TPE	250 m	Spool	827519
						RAL 9016	Traffic white	TPE	250 m	Spool	827689









## Timber

Lift&Slide elements

226

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### 3 Sliding systems



Lift&Slide elements are ideal for rooms that are designed to receive as much light as possible through their doors or windows and consequently to be better lit. As part of large-scale glazing, they are popular for rooms that offer a view of a particular environment or that have access to a terrace, a conservatory or a balcony. Thanks to their sliding mechanism, they can be opened and closed in a way that saves space.

Lift&Slide elements offer easy operation and tight sealing, and have an elegant, attractive appearance. An intact seal is key, as a damaged or worn sealing profile can lead to leaks that may increase heat loss and reduce the energy efficiency of the element. Moisture can also enter into the frame and lead to damage.

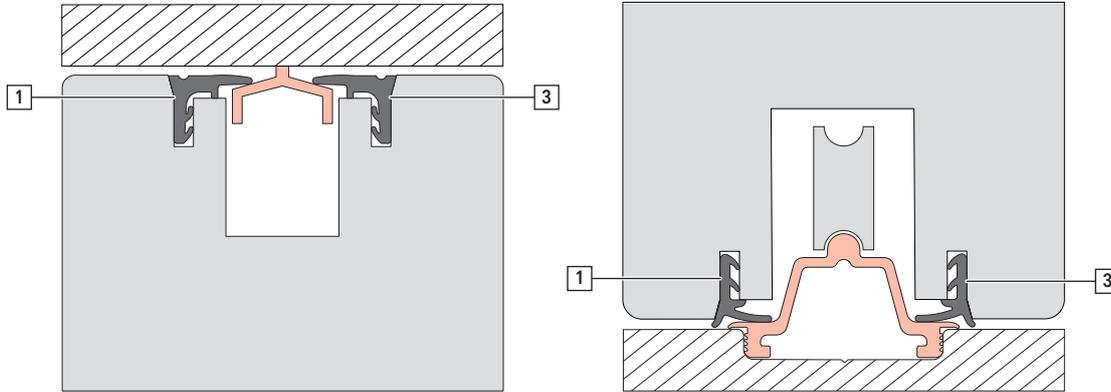
Due to their low threshold, Lift&Slide doors can also be used to meet accessibility requirements – especially for wheelchair users.



## 3.1 Timber

### Seals for Lift&Slide elements made of timber

Seals for Lift&Slide elements are made of a robust material like synthetic rubber (EPDM), silicone or thermoplastic elastomer, which is weather-resistant when exposed to sun, rain and snow. They are an effective way of preventing draughts, driving rain and dirt particles from entering. This sealing contributes to sound insulation, improving the energy efficiency of buildings, and creating a more comfortable room climate and living environment.



### Example of use

Installation position of the seal	Example seal, type and function	Profile image
1 3	<b>S 2586a</b> Stop seal, internal and external for the top area of the Lift&Slide element.	
1 3	<b>S 3223a</b> Stop seal, internal and external for the bottom area and the locking side of the Lift&Slide element.	

### Advantages

- High tolerance compensation ensures sealing over the entire door leaf
- Minimal build-up of closing pressure for effortless locking and unlocking of doors
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality door products

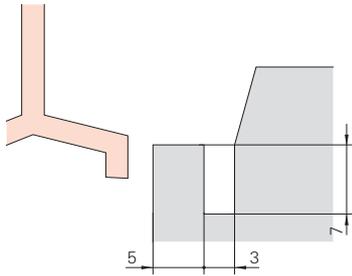
### **3.1.1 Lift&Slide elements**

Lift&Slide elements let more light in, giving rooms a whole new ambience. Deventer seals ensure reliable sealing against draughts and driving rain on the top and bottom guide track.

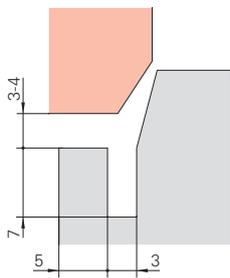




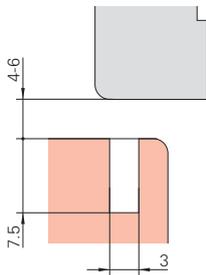
### 3.1.1.1 Lift&Slide elements



**S 2586a** → 228



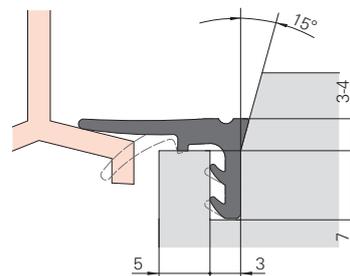
**S 3223a** → 229



**DS 7440a** → 230



**3.1.1.2 S 2586a**



**Product description**

- Sealing profile for Lift&Slide elements made of timber compatible with conventional systems
- Processing: welding
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD

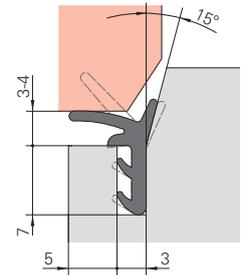
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Proven geometry

3	7	-	4 - 3	-	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Pane	826691
						RAL 9016	Traffic white	TPE	150 m	Pane	826937
						RAL 8014	Sepia brown	TPE	150 m	Pane	839656



**3.1.1.3 S 3223a**



**Product description**

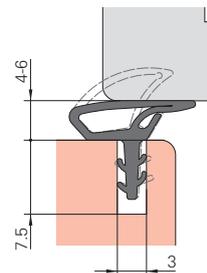
- Sealing profile for Lift&Slide elements made of timber compatible with conventional systems
- Processing: welding
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Proven geometry

											
3	7	-	3	-	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	300 m	Pane	798543
						RAL 7040	Window grey	TPE	300 m	Pane	834032
						RAL 9016	Traffic white	TPE	300 m	Pane	798544
						RAL 1001	Beige	TPE	300 m	Pane	798695
						RAL 8014	Sepia brown	TPE	300 m	Pane	798542

**3.1.1.4 DS 7440a**



**Product description**

- Sealing profile for Lift&Slide elements made of timber compatible with conventional systems
- Processing: notching or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Minimal friction thanks to smooth surface

3	7.5	–	4 – 6	–	Top Bottom Left Right Sash	RAL 9004	Signal black	Silicone	100 m	Bundle	857559
						RAL 7015	Slate grey	Silicone	100 m	Bundle	857567
						RAL 9016	Traffic white	Silicone	100 m	Bundle	857565
						RAL 8014	Sepia brown	Silicone	100 m	Bundle	857566











**Timber**

Door leaf seals	238
Door frame seals	243
Block frame seals	258
Floor door seals	265

## 4 Interior doors



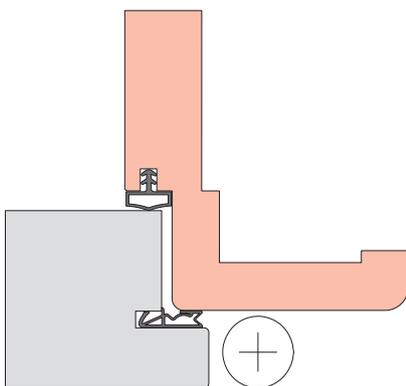
Deventer seals for interior doors stand out from conventional sealing profiles due to their specific function, as they have uniquely gentle and convenient locking characteristics. They also have excellent sound insulation properties. The seals are suitable for door designs both with a favourable and with an unfavourable pivot point.

### 4.1 Timber

#### Seals for interior doors made of timber

Seals on interior doors help the doors to be opened and closed easily. They also contribute to an improved energy footprint and to sound insulation.

A wide range of sealing profiles for international door designs with the most varied requirements ensures the right solution for every manufacturer, and stands out thanks to high functionality and universal processability.



#### Example of use

Installation position of the seal	Example seal, type and function	Profile image
11	<b>S 6513</b> Door leaf seal for interior doors. Seals against the frame and increases sealing and sound insulation.	
12	<b>S 680</b> Door frame seal for interior doors with a steep turn-in curve. If the locking characteristics are good, the door leaf slides onto the sealing profile – tolerances between the leaf and frame are compensated for.	



### **Advantages**

- High tolerance compensation ensures sealing over the entire door leaf
- Minimal build-up of closing pressure for effortless locking and unlocking of doors
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality door products



### **4.1.1 Door leaf seals**

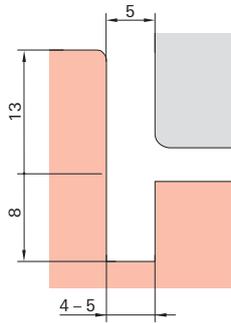
The door leaf seal is a seal type that is attached to the edge of the door leaf in order to ensure effective sealing between the door leaf and the door frame. The door leaf seal is inserted into a groove on the door rebate. The seal presses against the door frame when the door is closed and ensures sealing that is as airtight as possible.

Door leaf seals can be made of various materials, such as synthetic rubber (EPDM), silicone and compact or foamed TPE. They are an important component when it comes to the energy efficiency of doors, as they can contribute to reducing heat loss through points that lack a tight seal. Door leaf seals can also help to reduce external noises and consequently create a more comfortable room climate.





#### 4.1.1.1 Door leaf seals



**S 6513** → 240

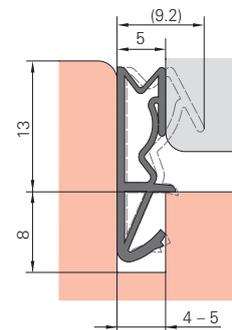


**S 6513 F** → 241



**SP 7713** → 242

**4.1.1.2 S 6513**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: welding
- Classification: EN 12365-1 – W45242
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

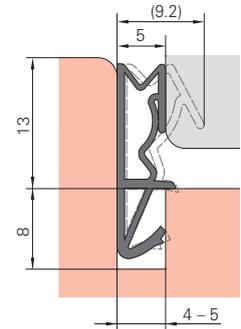
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	13	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	162 m	Pane	798803
						RAL 7040	Window grey	TPE	162 m	Pane	826368
						RAL 9016	Traffic white	TPE	162 m	Pane	798804
						RAL 8014	Sepia brown	TPE	162 m	Pane	798806
						RAL 1001	Beige	TPE	162 m	Pane	798805



**4.1.1.3 S 6513 F**



**Product description**

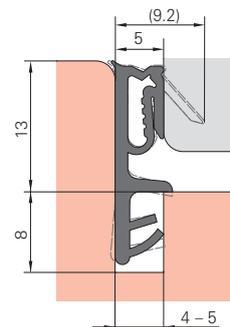
- For fire protection doors with a steep turn-in curve
- Processing: welding
- Classification: EN 12365-1 – W44233
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions
- Proof of fire behaviour

4 – 5	8	13	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	162 m	Pane	798809

**4.1.1.4 SP 7713**



**Product description**

- For interior doors with a steep or flat turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W44233
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	13	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827535
						RAL 7040	Window grey	TPE	150 m	Spool	827534
						RAL 9016	Traffic white	TPE	150 m	Spool	833959
						RAL 1001	Beige	TPE	150 m	Spool	833958



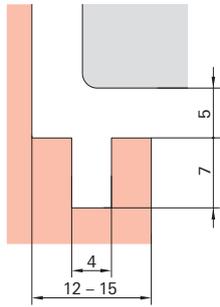
### 4.1.2 Door frame seals

The door frame seal is a seal type that is attached to the edge of the door frame in order to ensure effective sealing between the door frame and the door leaf. The door frame seal is inserted into a groove on the edge of the door frame. The seal presses against the door leaf when the door is closed and ensures sealing that is as airtight as possible.

Door frame seals can be made of various materials, such as synthetic rubber (EPDM), silicone and compact or foamed TPE. They are an important component when it comes to the energy efficiency of doors, as they can help to reduce heat loss through points that lack a tight seal. Door frame seals can also contribute to lessening closing noises (for instance, when slamming doors shut), as well as reducing external noises, and consequently creating a more comfortable room climate and living environment.



**4.1.2.1 Door frame seals**



**S 680** → 245



**S 3967** → 246



**S 6612** → 247



**S 6612 F** → 248



**DS 6577a** → 249



**S 6577a** → 250



**S 7210** → 251



**SP 7522** → 252



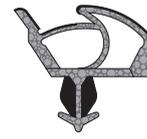
**SP 7677** → 253



**S 6615** → 254



**S 6615 F** → 255



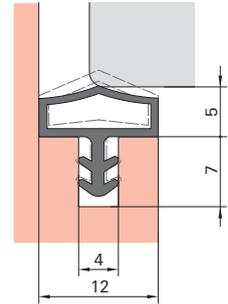
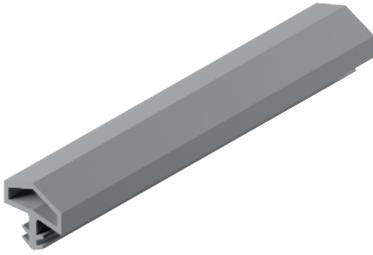
**SP 7544** → 256



**S 6699a** → 257



**4.1.2.2 S 680**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

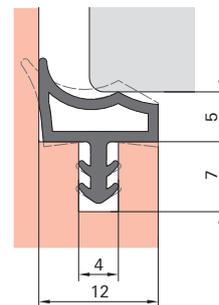
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake



4	7	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	825258
						RAL 9016	Traffic white	TPE	100 m	Bundle	825259
						RAL 8014	Sepia brown	TPE	100 m	Bundle	825257
						RAL 1001	Beige	TPE	100 m	Bundle	825256

**4.1.2.3 S 3967**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

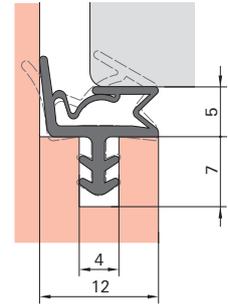
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- With lip for positioning on the rebate

4	7	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	825276
						RAL 7040	Window grey	TPE	100 m	Bundle	2009690
						RAL 9016	Traffic white	TPE	100 m	Bundle	827409
						RAL 8014	Sepia brown	TPE	100 m	Bundle	825275
						RAL 1001	Beige	TPE	100 m	Bundle	827398



**4.1.2.4 S 6612**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W34242
- Operating force: EN 13115 – Class 4
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

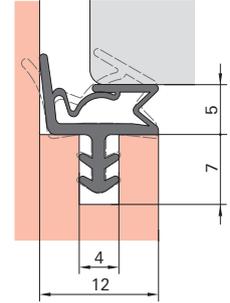
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake



											
4	7	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	798564
						RAL 7015	Slate grey	TPE	100 m	Bundle	897002
						RAL 7040	Window grey	TPE	100 m	Bundle	825300
						RAL 9016	Traffic white	TPE	100 m	Bundle	798565
						RAL 8014	Sepia brown	TPE	100 m	Bundle	798563
						RAL 1001	Beige	TPE	100 m	Bundle	798562

**4.1.2.5 S 6612 F**



**Product description**

- For fire protection doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W44243
- Operating force: EN 13115 – Class 4
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

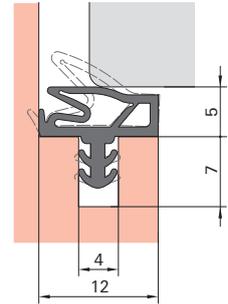
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Proof of fire behaviour

4	7	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	798784



**4.1.2.6 DS 6577a**



**Product description**

- For interior doors with a steep and flat turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

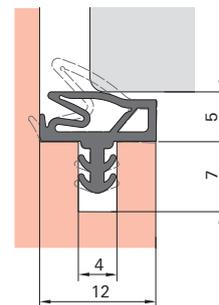
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Door leaf slides onto the seal
- Specially developed for glass doors, e.g. in sauna construction



											
4	7	12	5	Steep Flat	Top Left Right Frame	RAL 9004 RAL 9016 RAL 8014 RAL 1001	Signal black Traffic white Sepia brown Beige	Silicone Silicone Silicone Silicone	50 m 50 m 50 m 50 m	Bundle Bundle Bundle Bundle	819902 819901 825860 825771

**4.1.2.7 S 6577a**



**Product description**

- For interior doors with a steep and flat turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W33232
- Operating force: EN 13115 – Class 4
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

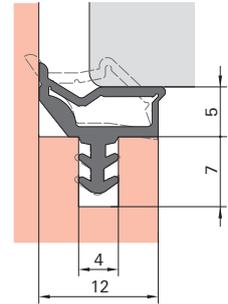
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Door leaf slides onto the seal

4	7	12	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Spool	798872
						RAL 7040	Window grey	TPE	100 m	Spool	827151
						RAL 9016	Traffic white	TPE	100 m	Spool	827150
						RAL 8014	Sepia brown	TPE	100 m	Spool	827131
						RAL 1001	Beige	TPE	100 m	Spool	827136



**4.1.2.8 S 7210**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W33232
- Operating force: EN 13115 – Class 4
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

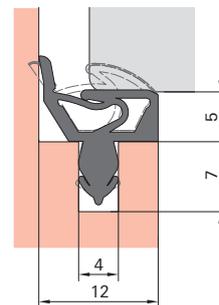
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- With lip for positioning on the rebate



4	7	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	827792
						RAL 7040	Window grey	TPE	100 m	Bundle	825613
						RAL 9016	Traffic white	TPE	100 m	Bundle	818249
						RAL 8014	Sepia brown	TPE	100 m	Bundle	818248
						RAL 1001	Beige	TPE	100 m	Bundle	827384

**4.1.2.9 SP 7522**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W35233
- Operating force: EN 13115 – Class 4
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD

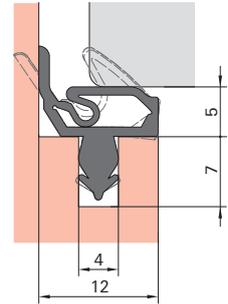
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- New foot design, for easy installation and a secure hold
- Straight fit in the groove for all door frame materials
- Reliable operation with excellent sound insulation properties

4	7	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Spool	798748
						RAL 7040	Window grey	TPE	100 m	Spool	899240
						RAL 9016	Traffic white	TPE	100 m	Spool	798735
						RAL 8014	Sepia brown	TPE	100 m	Spool	798737
						RAL 1001	Beige	TPE	100 m	Spool	798734



**4.1.2.10 SP 7677**



**Product description**

- For interior doors with a steep and flat turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W33223
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD

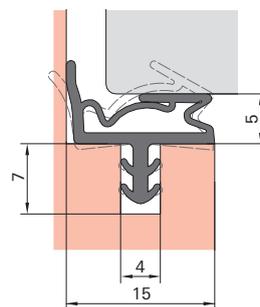
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- New foot design, for easy installation and a secure hold
- Reliable operation with excellent sound insulation properties
- Straight fit in the groove for all door frame materials



4	7	12	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	TPE	150 m	Spool	826177
						RAL 9016	Traffic white	TPE	150 m	Spool	826170
						RAL 8014	Sepia brown	TPE	150 m	Spool	826180
						RAL 1001	Beige	TPE	150 m	Spool	826179

**4.1.2.11 S 6615**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

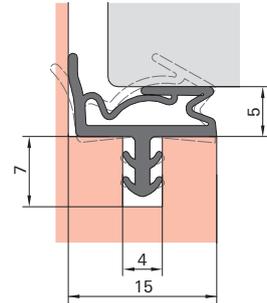
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake

4	7	15	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	827289
						RAL 7040	Window grey	TPE	100 m	Bundle	827355
						RAL 8014	Sepia brown	TPE	100 m	Bundle	827781
						RAL 1001	Beige	TPE	100 m	Bundle	827288



**4.1.2.12 S 6615 F**



**Product description**

- For fire protection doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W44243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

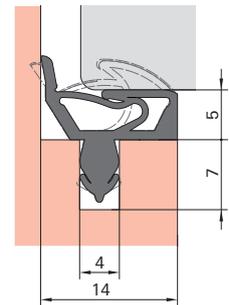
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Proof of fire behaviour



											
4	7	15	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	827383

**4.1.2.13 SP 7544**



**Product description**

- For interior doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W35223
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

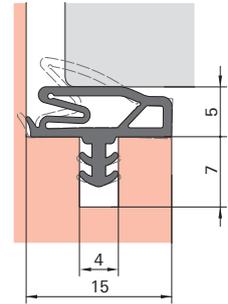
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- New foot design, for easy installation and a secure hold
- Straight fit in the groove for all door frame materials
- Reliable operation with excellent sound insulation properties

4	7	14	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	834570
						RAL 9016	Traffic white	TPE	100 m	Bundle	827718
						RAL 8014	Sepia brown	TPE	100 m	Bundle	827716
						RAL 1001	Beige	TPE	100 m	Bundle	827712



**4.1.2.14 S 6699a**



**Product description**

- For interior doors with a steep and flat turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Door leaf slides onto the seal



4	7	15	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	TPE	120 m	Spool	827573
						RAL 7040	Window grey	TPE	120 m	Spool	827571
						RAL 9016	Traffic white	TPE	120 m	Spool	827574
						RAL 8014	Sepia brown	TPE	120 m	Spool	827572
						RAL 1001	Beige	TPE	120 m	Spool	827662

### **4.1.3 Block frame seals**

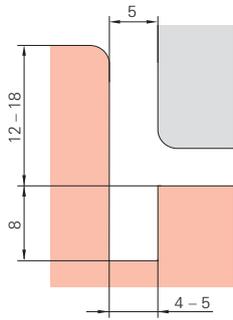
The block frame seal is a special seal type that is used for block frames in order to ensure effective sealing between the door leaf and the block frame. A block frame is a door frame consisting of individual blocks, which are connected together in order to form a frame. The block frame seal is inserted into a groove on the edge of the block frame. This presses against the door leaf when the door is closed and ensures airtight sealing.

Block frame seals can be made of various materials, such as synthetic rubber (EPDM), silicone, and compact or foamed TPE. This seal type is key in improving the energy efficiency of doors and in minimising draughts and air leaks through points that lack a tight seal. Through effective sealing with a block frame seal, external noises can also be reduced and closing noises lessened, helping to achieve a more comfortable room climate and living environment.





### 4.1.3.1 Block frame seals



**S 6515a** → 260



**SV 155** → 261



**DS 155a** → 262



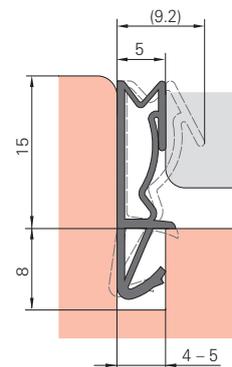
**DS 6955a** → 263



**S 6518a** → 264



**4.1.3.2 S 6515a**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W46232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

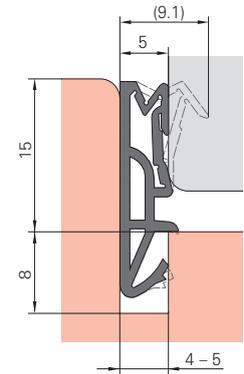
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	15	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	144 m	Pane	798554
						RAL 7015	Slate grey	TPE	144 m	Pane	798697
						RAL 7040	Window grey	TPE	144 m	Pane	798552
						RAL 9016	Traffic white	TPE	144 m	Pane	798555
						RAL 8014	Sepia brown	TPE	144 m	Pane	798553
						RAL 1001	Beige	TPE	144 m	Pane	798551



**4.1.3.3 SV 155**



**Product description**

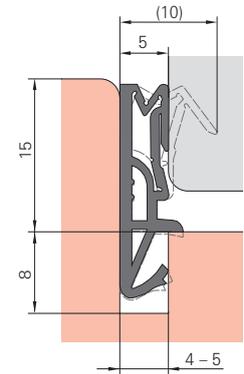
- For doors with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W46243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- Ensures high tolerance compensation for warped door leaves

4 – 5	8	15	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	827503
						RAL 7015	Slate grey	TPE	100 m	Bundle	833967
						RAL 7040	Window grey	TPE	100 m	Bundle	827669
						RAL 9016	Traffic white	TPE	100 m	Bundle	827502
						RAL 8014	Sepia brown	TPE	100 m	Bundle	827504
					RAL 1001	Beige	TPE	100 m	Bundle	827501	

**4.1.3.4 DS 155a**



**Product description**

- For doors with a steep turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W45276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

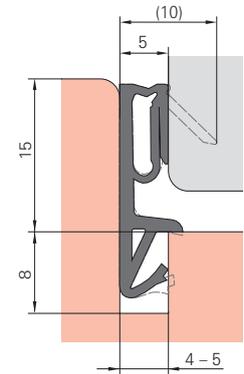
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for a warped frame insert

4 – 5	8	15	5	Steep	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	798671
						RAL 7015	Slate grey	Silicone	50 m	Bundle	798710
						RAL 9016	Traffic white	Silicone	50 m	Bundle	798668
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	798670
						RAL 1001	Beige	Silicone	50 m	Bundle	798669



**4.1.3.5 DS 6955a**



**Product description**

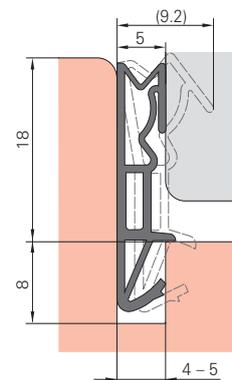
- For doors with a steep and flat turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W44276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for a warped frame insert

4 – 5	8	15	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	817463
						RAL 7015	Slate grey	Silicone	50 m	Bundle	826287
						RAL 9016	Traffic white	Silicone	50 m	Bundle	826285
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	826406
						RAL 1001	Beige	Silicone	50 m	Bundle	798793

**4.1.3.6 S 6518a**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W45232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	18	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	126 m	Pane	798800
						RAL 7015	Slate grey	TPE	126 m	Pane	826363
						RAL 7040	Window grey	TPE	126 m	Pane	826397
						RAL 9016	Traffic white	TPE	126 m	Pane	798801
						RAL 8014	Sepia brown	TPE	126 m	Pane	798802
						RAL 1001	Beige	TPE	126 m	Pane	798807



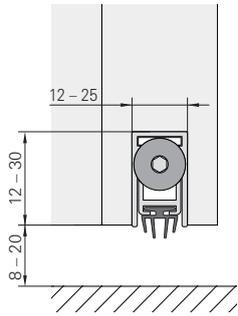
#### **4.1.4 Floor door seals**

Deventer floor door seals are used in public and private buildings that have stringent requirements when it comes to sound insulation, smoke control and fire protection. This includes, for instance, schools, hospitals, hotels, administrative and office buildings, detached houses and apartment buildings. Floor door seals are used for bridging gaps between the bottom of a door and the floor, and can be installed in various ways. They prevent draughts, cold, sound and – depending on the seal model – even smoke from entering.

Floor door seals are the perfect addition to Deventer functional seals that surround interior doors and other doors on three sides.



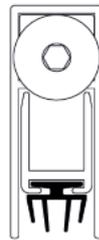
#### 4.1.4.1 Floor door seals



**DDM 1212** → 267



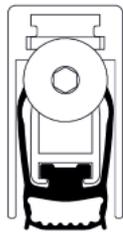
**DDS 1220** → 268



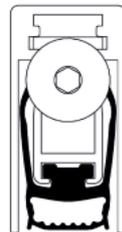
**DDS 1230** → 269



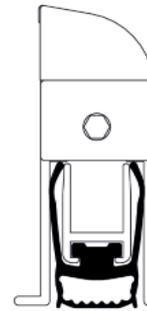
**DSD 1530** → 270



**DSF 1528** → 272



**DSF 1530** → 273



**DSG 1540** → 274



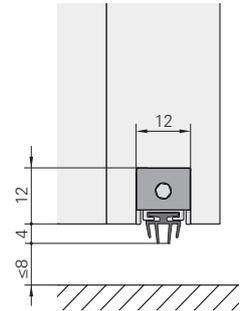
**DSF 2520** → 275



**Phon Stop** → 276



#### 4.1.4.2 DDM 1212



#### Product description

- Automatic drop down seal with single-sided triggering / trigger mechanism: square
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- Not suitable for sound insulation
- All available lengths can be shortened by up to 125 mm on the locking side
- Housing made of aluminium U-profile

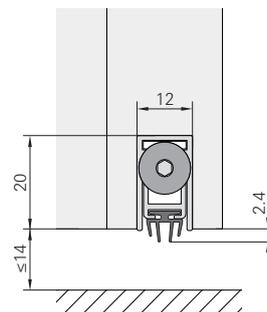
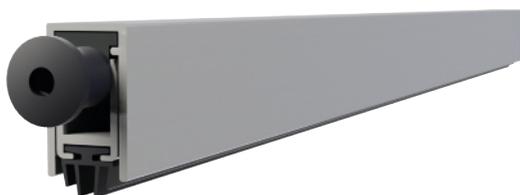
#### Advantages at a glance

- Ideal where space is limited
- Compatible with the hardware groove of balcony doors
- Also for use in PVC doors
- Simple installation thanks to screw fixing from below
- Fast contact regulation with a 3 mm hex key thanks to single-sided release



									
12	12	8	Bottom Door leaf	459	125	PVC	1 Piece(s)	Unpackaged	2032843
				530	125	PVC	1 Piece(s)	Unpackaged	2032845
				584	125	PVC	1 Piece(s)	Unpackaged	2032847
				630	125	PVC	1 Piece(s)	Unpackaged	2032849
				709	125	PVC	1 Piece(s)	Unpackaged	2032851
				730	125	PVC	1 Piece(s)	Unpackaged	2032853
				830	125	PVC	1 Piece(s)	Unpackaged	2032856
				834	125	PVC	1 Piece(s)	Unpackaged	2032858
				930	125	PVC	1 Piece(s)	Unpackaged	2032859
				959	125	PVC	1 Piece(s)	Unpackaged	2032862
				1030	125	PVC	1 Piece(s)	Unpackaged	2032863
				1084	125	PVC	1 Piece(s)	Unpackaged	2032866
				1130	125	PVC	1 Piece(s)	Unpackaged	2032868
				1209	125	PVC	1 Piece(s)	Unpackaged	2032870
			1320	125	PVC	1 Piece(s)	Unpackaged	2032873	
			1334	125	PVC	1 Piece(s)	Unpackaged	2032875	

### 4.1.4.3 DDS 1220



#### Product description

- Automatic drop down seal with single-sided triggering / trigger mechanism: round
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- Not suitable for sound insulation
- All available lengths can be shortened by up to 125 mm on the locking side
- Housing made of aluminium U-profile

#### Advantages at a glance

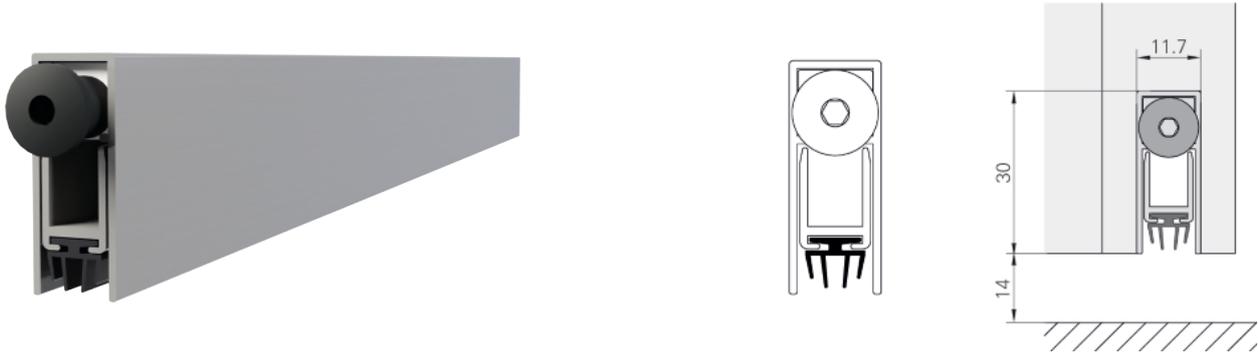
- Ideal where space is limited
- Compatible with the hardware groove of balcony doors
- Also for use in PVC doors
- Simple installation thanks to screw fixing from below
- Fast contact regulation with a 3 mm hex key thanks to single-sided release

#### With screws for installation from below

12	20	14	Bottom Door leaf	459	125	PVC	1 Piece(s)	Unpackaged	2032840
				730	125	PVC	1 Piece(s)	Unpackaged	2032842
				814	125	PVC	1 Piece(s)	Unpackaged	2032844
				830	125	PVC	1 Piece(s)	Unpackaged	2032846
				834	125	PVC	1 Piece(s)	Unpackaged	2032848
				864	125	PVC	1 Piece(s)	Unpackaged	2032850
				914	125	PVC	1 Piece(s)	Unpackaged	2032852
				930	125	PVC	1 Piece(s)	Unpackaged	2032854
				959	125	PVC	1 Piece(s)	Unpackaged	2032857
				964	125	PVC	1 Piece(s)	Unpackaged	2032860
				1030	125	PVC	1 Piece(s)	Unpackaged	2032861
				1084	125	PVC	1 Piece(s)	Unpackaged	2032864
				1130	125	PVC	1 Piece(s)	Unpackaged	2032865
				1230	125	PVC	1 Piece(s)	Unpackaged	2032867



#### 4.1.4.4 DDS 1230



#### Product description

- Automatic drop down seal with single-sided triggering / trigger mechanism: round
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- Not suitable for sound insulation
- All available lengths can be shortened by up to 125 mm on the locking side
- Housing made of aluminium U-profile

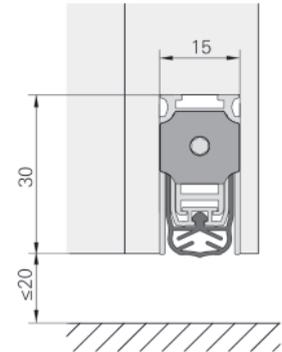
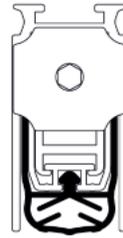
#### Advantages at a glance

- Ideal where space is limited
- Compatible with the hardware groove of balcony doors
- Also for use in PVC doors
- Simple installation thanks to screw fixing from below
- Fast contact regulation with a 3 mm hex key thanks to single-sided release



12	30	14	Bottom Door leaf	430 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2032869
				459 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2032871
				530 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2032874
				584 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2032855
				617 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034172
				630 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034173
				644 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034194
				709 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034195
				717 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034196
				730 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034197
				744 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2041567
				817 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034198
				830 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034199
				834 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034200
				844 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034201
				917 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034202
				930 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2041568
				944 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034203
				959 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034204
				1017 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034205
			1030 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034206	
			1044 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034207	
			1084 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034208	
			1209 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034209	
			1230 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034210	
			1334 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2034211	

**4.1.4.5 DSD 1530**



**Product description**

- Automatic drop down seal with single-sided triggering / trigger mechanism: square
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- suitable for sound insulation
- All available lengths can be shortened by up to 125 mm on the locking side
- Housing made of aluminium U-profile

**Advantages at a glance**

- Ideal where space is limited
- Also for use in PVC doors
- Simple installation thanks to screw fixing from below or with mounting bracket
- Fast contact regulation with a 3 mm hex key thanks to single-sided release

**Installation using screws**

15	30	20	Bottom Door leaf	332 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041575
				459 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034272
				584 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041576
				709 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034273
				834 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034274
				940 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041577
				959 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034275
				1014 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041578
				1084 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034276
				1209 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034277
				1218 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041604
				1230 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041605
				1258 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041606
				1332 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041607
1334 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034278				
1459 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034279				

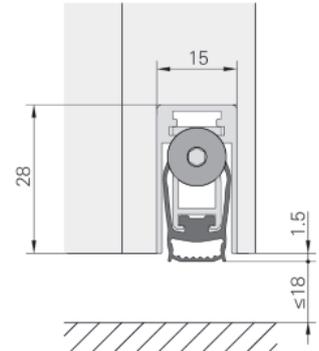
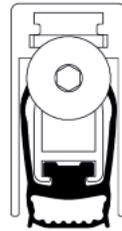


**Installation using a mounting bracket**

									N <sup>o</sup>
15	30	20	Bottom Door leaf	332 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034242
				459 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034243
				584 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034244
				709 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034245
				834 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034246
				940 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034247
				959 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034248
				1014 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034249
				1084 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034250
				1209 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034251
				1218 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034252
				1230 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034253
				1258 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034254
				1332 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034255
				1334 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041609
				1459 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2041610
			1500 mm	125 mm	TPE	1 Piece(s)	Unpackaged	2034256	



**4.1.4.6 DSF 1528**



**Product description**

- Automatic drop down seal with single-sided triggering / trigger mechanism: round
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- suitable for sound insulation
- Tested in fire safety applications
- All available lengths can be shortened by up to 125 mm on the locking side

**Advantages at a glance**

- Ideal where space is limited
- Also for use in PVC doors
- Simple installation thanks to screw fixing from below or with mounting bracket
- Fast contact regulation with a 3 mm hex key thanks to single-sided release

**Installation using screws**

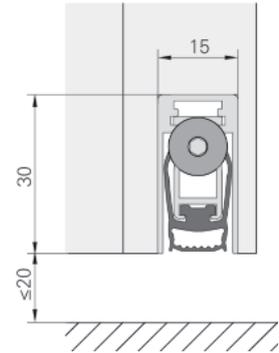
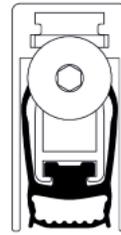
15	28	18	Bottom Door leaf	330 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036759
				430 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036760
				530 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036761
				630 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036762
				730 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036763
				830 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036764
				930 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036765
				1030 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036766
				1130 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036767
				1230 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036768
1330 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2036769				

**Installation using a mounting bracket**

15	28	18	Bottom Door leaf	330 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034212
				430 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034213
				530 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034214
				630 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034215
				730 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034216
				830 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034217
				930 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034218
				1030 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034219
				1130 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034220
				1230 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034221
1330 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034222				



#### 4.1.4.7 DSF 1530



#### Product description

- Automatic drop down seal with single-sided triggering / trigger mechanism: round
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- suitable for sound insulation
- Tested in fire safety applications
- All available lengths can be shortened by up to 125 mm on the locking side

#### Advantages at a glance

- Ideal where space is limited
- Also for use in PVC doors
- Simple installation thanks to screw fixing from below or with mounting bracket
- Fast contact regulation with a 3 mm hex key thanks to single-sided release



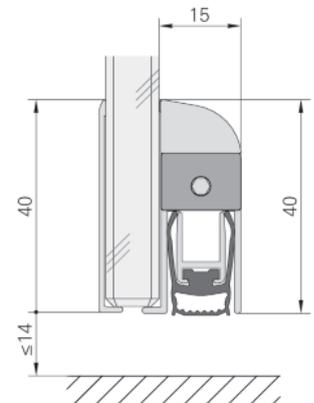
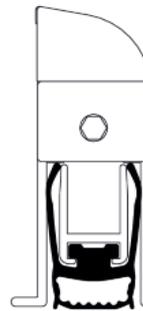
#### Installation using screws

15	30	20	Bottom Door leaf	459 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034280
				709 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034281
				834 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034282
				959 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034283
				1084 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034284
				1209 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034285
				1334 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034286
1459 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034287				

#### Installation using a mounting bracket

15	30	20	Bottom Door leaf	332 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034258
				459 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034259
				584 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034260
				709 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034261
				834 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034262
				940 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034263
				959 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034264
				1014 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034265
				1084 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034266
				1209 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034267
				1218 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034268
				1230 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034269
				1258 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034519
				1332 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034270
1500 mm	125 mm	Silicone	1 Piece(s)	Unpackaged	2034271				

**4.1.4.8 DSG 1540**



**Product description**

- Automatic drop down seal with single-sided triggering / trigger mechanism: square
- For doors made entirely of glass and for retrofitting independently of the glass thickness
- All available lengths can be shortened by up to 125 mm on the locking side

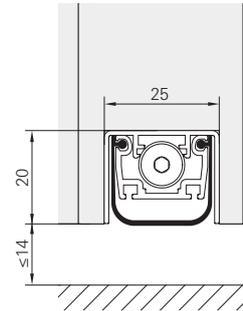
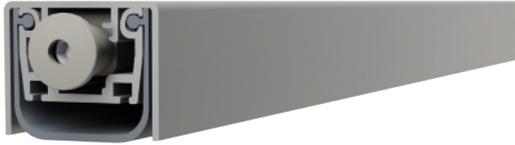
**Advantages at a glance**

- Angular installation for easy fixing
- Special adhesive tape on glass and PVC, and for retrofitting to doors
- Cover profile for the panel on the opposite side
- Can be used left-handed or right-handed thanks to simple conversion

15	40	14	Door leaf	459 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034223
				530 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034224
				630 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034225
				709 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034226
				730 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034227
				830 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034228
				834 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034229
				900 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034230
				930 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034231
				959 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034232
				1030 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034233
				1084 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034234
				1130 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034235
				1209 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034236
				1230 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034237
1330 mm	125 mm	Silicone	1 Piece(s)	Poly bag	2034238				



#### 4.1.4.9 DSF 2520



#### Product description

- Automatic drop down seal with single-sided triggering / trigger mechanism: round
- For protecting a sealing level behind it
- Acts as an additional water barrier, thus increasing the reliability of the design in terms of driving rain impermeability when using thresholds with a small installation height as part of accessible building
- suitable for sound insulation
- Tested in fire safety applications
- All available lengths can be shortened by up to 125 mm on the locking side

#### Advantages at a glance

- Also for use in metal doors
- Simple installation thanks to screw fixing from below
- Fast contact regulation with a 3 mm hex key thanks to single-sided release



#### Installation using screws

25	20	14	Bottom Door leaf	830 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2048369
				930 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2048370
				1130 mm	125 mm	PVC	1 Piece(s)	Unpackaged	2048371

**4.1.4.10 Phon Stop**



**Product description**

- End piece for drop down seals or normal threshold
- Installation by screwing to the inside of the door frame

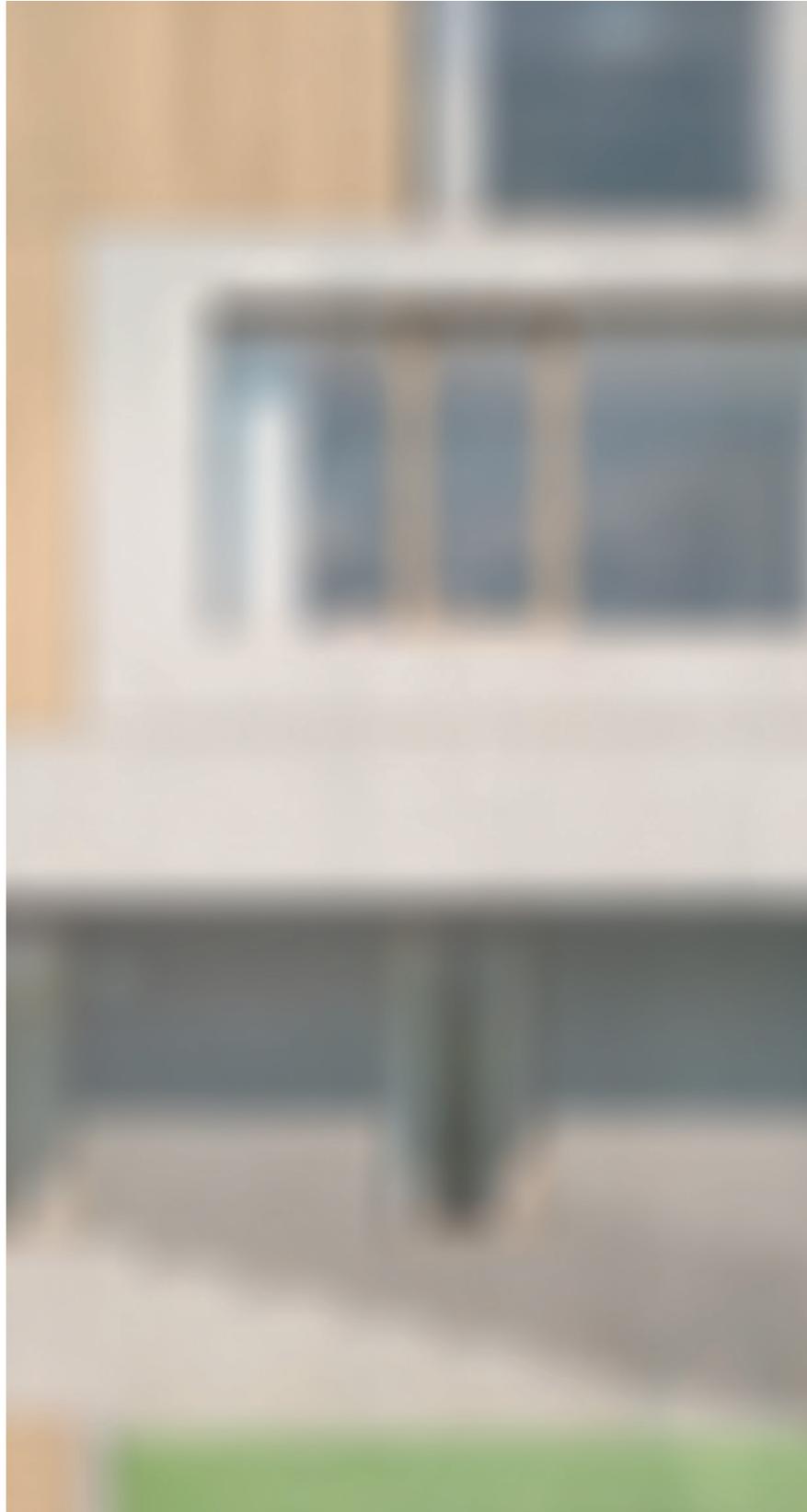
**Advantages at a glance**

- Elevates sound insulation up to the level of a seal cut appropriately for the rebate dimension of the door leaf – tested in conjunction with DSD 1530
- Improves sealing against driving rain in the corners of the threshold



		<b>Nº</b>
Mitre pliers with integrated insertion roller	Accessories for the drop down seal	817490











**Timber**

Block frame seals	284
Sliding threshold seals	303

## 5 Doors



Main entrance doors and apartment entrance doors separate your private living space from the public or communal domain and must meet particular requirements, in contrast to interior doors within your private living space. Depending on the position and function, main entrance doors and apartment entrance doors offer privacy and protection against burglary, noise, cold, wind and other weather, and are used for the purpose of heat insulation and energy efficiency. They are mostly made of PVC, aluminium or timber in the most varied styles, colours, shapes and sizes, with and without inserts made of glass or PVC.

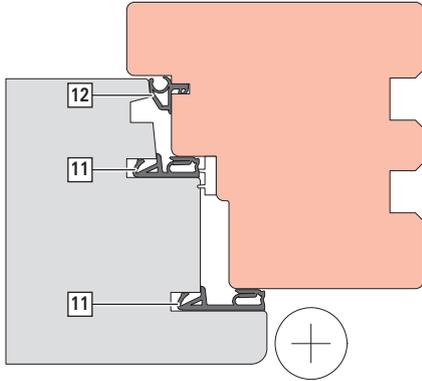


## 5.1 Timber

### Seals for doors made of timber

Seals on doors help the doors to be opened and closed easily, prevent cold, moisture and draughts from entering, and also contribute to an improved energy footprint and to sound insulation.

A wide range of sealing profiles for international door designs with the most varied requirements ensures the right solution for every manufacturer, and stands out thanks to high functionality and universal processability.



### Example of use

Installation position of the seal	Example seal, type and function	Profile image
11	<b>DS 6922a</b> Inner seal / sash rebate seal for doors, for 12 mm rebate height, 5 mm stop distance and 4 – 5 x 8 mm groove	
11	<b>DS 6988a</b> Stop seal for doors, for 18 mm rebate height, 5 mm stop distance and 4 – 5 x 8 mm groove	
12	<b>DS 7621</b> Frame seal for 3 x 5 mm groove and 6 mm stop distance.	

### Advantages

- High tolerance compensation ensures sealing over the entire door leaf
- Minimal build-up of closing pressure for effortless locking and unlocking of doors
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality door products

### 5.1.1 Block frame seals

Due to the different climatic conditions, sealing profiles in the door frame and door leaf are subject to stringent requirements for doors. Deventer seals made of TPE foam and silicone rubber ensure the greatest possible tolerance compensation if the door leaf is warped and are ideal for door designs both with a steep and with a flat turn-in curve.

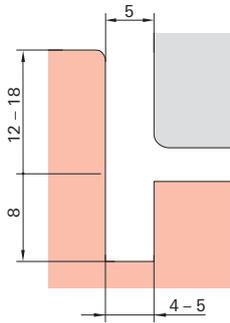
The block frame seal is a seal type that is attached to the edge of the door frame in order to ensure effective sealing between the rigid door frame and the movable door. The door frame seal is inserted into a groove on the edge of the door frame. The seal presses against the door leaf when the door is closed and ensures sealing that is as airtight as possible.

Block frame seals can be made of various materials, such as synthetic rubber (EPDM), silicone, and compact or foamed TPE. They are an important component when it comes to the energy efficiency of doors, as they can help to reduce heat loss through points that lack a tight seal. Door frame seals can also contribute to lessening closing noises – for instance, when slamming doors shut – as well as reducing external noises and consequently creating a more comfortable room climate and living environment.





### 5.1.1.1 Block frame seals



**DS 6922a** → 287



**SP 7612** → 290



**DS 112a** → 293



**SV 112** → 296



**DS 6955a** → 288



**SP 7715** → 291



**DS 155a** → 294



**SV 155** → 297



**DS 6988a** → 289



**SP 7718** → 292



**DS 185a** → 295



**SV 185** → 298



**Doors**  
**Timber**  
Block frame seals



**S 6512a F** → 299



**DS 1218d** → 302



**S 6515a** → 300

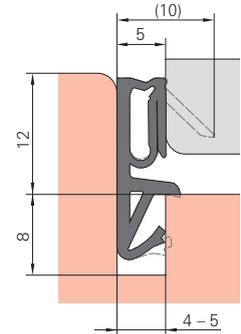


**S 6518a** → 301





**5.1.1.2 DS 6922a**



**Product description**

- For doors with a steep and flat turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W45276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

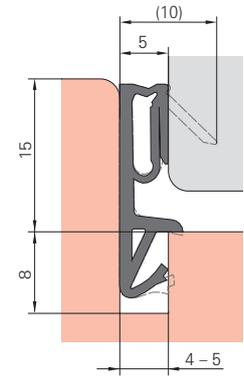
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for warped door leaves



4 – 5	8	12	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	817460
						RAL 7015	Slate grey	Silicone	50 m	Bundle	826288
						RAL 7040	Window grey	Silicone	50 m	Bundle	899331
						RAL 9016	Traffic white	Silicone	50 m	Bundle	810054
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	826469
						RAL 1001	Beige	Silicone	50 m	Bundle	821038

**5.1.1.3 DS 6955a**



**Product description**

- For doors with a steep and flat turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W44276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

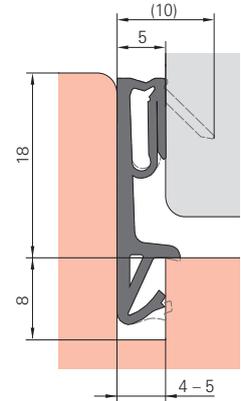
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for a warped frame insert

4 – 5	8	15	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	817463
						RAL 7015	Slate grey	Silicone	50 m	Bundle	826287
				RAL 9016		Traffic white	Silicone	50 m	Bundle	826285	
				RAL 8014		Sepia brown	Silicone	50 m	Bundle	826406	
				RAL 1001		Beige	Silicone	50 m	Bundle	798793	



**5.1.1.4 DS 6988a**



**Product description**

- For doors with a steep and flat turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W44276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

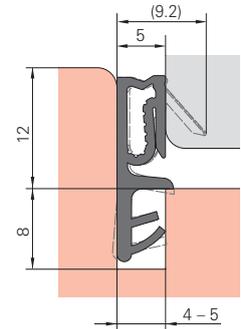
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures



4 – 5	8	18	5	Steep Flat	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	817466
						RAL 7015	Slate grey	Silicone	50 m	Bundle	834021
						RAL 9016	Traffic white	Silicone	50 m	Bundle	817465
						RAL 1001	Beige	Silicone	50 m	Bundle	825796

**5.1.1.5 SP 7612**



**Product description**

- For the sash rebate and central rebate of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W43233
- Operating force: EN 13115 – Class 3
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A

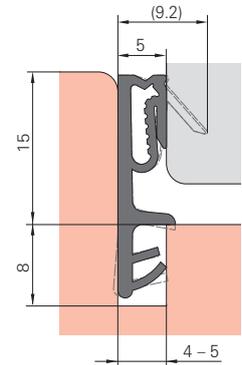
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation
- Can be combined with existing floating-mullion solutions

4 – 5	8	12	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	150 m	Spool	827511
						RAL 7015	Slate grey	TPE	150 m	Spool	827498
						RAL 7040	Window grey	TPE	150 m	Spool	827510
						RAL 9016	Traffic white	TPE	150 m	Spool	827508
						RAL 8014	Sepia brown	TPE	150 m	Spool	827594
						RAL 1001	Beige	TPE	150 m	Spool	827509



**5.1.1.6 SP 7715**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

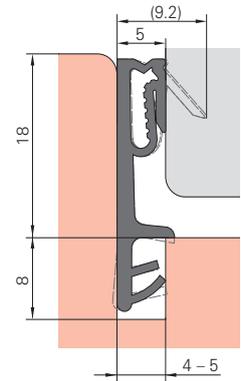
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation



4 – 5	8	15	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	100 m	Spool	827267
						RAL 7015	Slate grey	TPE	100 m	Spool	827266
						RAL 7040	Window grey	TPE	100 m	Spool	827262
						RAL 9016	Traffic white	TPE	100 m	Spool	827264
						RAL 8014	Sepia brown	TPE	100 m	Spool	827707
						RAL 1001	Beige	TPE	100 m	Spool	827265

**5.1.1.7 SP 7718**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep or flat turn-in curve, and for other doors
- Processing: notching or welding
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

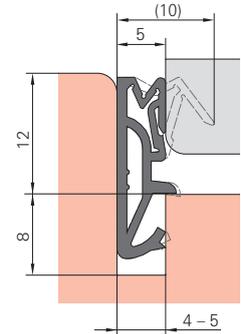
**Advantages at a glance**

- Good elastic recovery
- Soft and gentle locking characteristics
- High tolerance intake
- Overexpansion protection for a perfect, robust corner joint in a notched frame design
- Hard coating on the back for easy profile installation

4 – 5	8	18	5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	125 m	Spool	827538
						RAL 7015	Slate grey	TPE	125 m	Spool	827757
						RAL 7040	Window grey	TPE	125 m	Spool	827537
						RAL 9016	Traffic white	TPE	125 m	Spool	827539
						RAL 8014	Sepia brown	TPE	125 m	Spool	827690
						RAL 1001	Beige	TPE	125 m	Spool	827540



**5.1.1.8 DS 112a**



**Product description**

- For doors with a steep turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W45276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

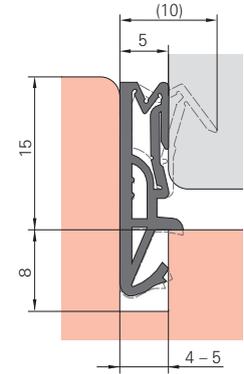
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for warped door leaves



4 – 5	8	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	798665
						RAL 7015	Slate grey	Silicone	50 m	Bundle	798667
						RAL 9016	Traffic white	Silicone	50 m	Bundle	798663
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	798664
						RAL 1001	Beige	Silicone	50 m	Bundle	798662

**5.1.1.9 DS 155a**



**Product description**

- For doors with a steep turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W45276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

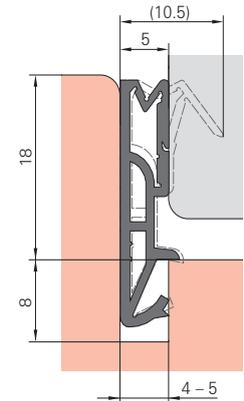
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for a warped frame insert

4 – 5	8	15	5	Steep	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	798671
						RAL 7015	Slate grey	Silicone	50 m	Bundle	798710
						RAL 9016	Traffic white	Silicone	50 m	Bundle	798668
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	798670
						RAL 1001	Beige	Silicone	50 m	Bundle	798669



**5.1.1.10 DS 185a**



**Product description**

- For doors with a steep turn-in curve
- Processing: mitring or butt joints
- Classification: EN 12365-1 – W45276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – Suitable

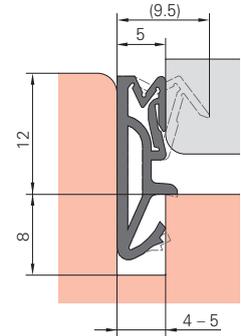
**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for warped door leaves



4 – 5	8	18	5	Steep	Top Left Right Frame	RAL 9004	Signal black	Silicone	50 m	Bundle	798676
						RAL 7015	Slate grey	Silicone	50 m	Bundle	798674
						RAL 9016	Traffic white	Silicone	50 m	Bundle	817456
						RAL 8014	Sepia brown	Silicone	50 m	Bundle	798675
						RAL 1001	Beige	Silicone	50 m	Bundle	817455

**5.1.1.11 SV 112**



**Product description**

- For doors with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W46243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

**Advantages at a glance**

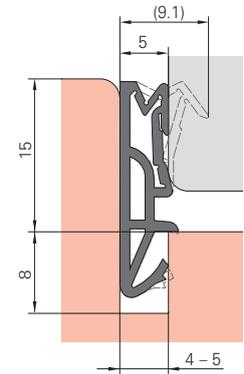
- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Ensures high tolerance compensation for warped door leaves



4 – 5	8	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	130 m	Spool	827546
						RAL 9016	Traffic white	TPE	130 m	Spool	827545
						RAL 8014	Sepia brown	TPE	130 m	Spool	827544
						RAL 1001	Beige	TPE	130 m	Spool	827621



**5.1.1.12 SV 155**



**Product description**

- For doors with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W46243
- Operating force: EN 13115 – Class 1
- Air permeability: EN 12207 – Class 4
- Driving rain impermeability: EN 12208 – Class 9A
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

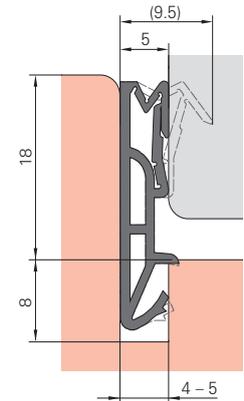
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- Ensures high tolerance compensation for warped door leaves



4 – 5	8	15	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Bundle	827503
						RAL 7015	Slate grey	TPE	100 m	Bundle	833967
						RAL 7040	Window grey	TPE	100 m	Bundle	827669
						RAL 9016	Traffic white	TPE	100 m	Bundle	827502
						RAL 8014	Sepia brown	TPE	100 m	Bundle	827504
					RAL 1001	Beige	TPE	100 m	Bundle	827501	

**5.1.1.13 SV 185**



**Product description**

- For doors with a steep turn-in curve
- Processing: notching or welding
- Classification: EN 12365-1 – W46243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – Class 9A
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

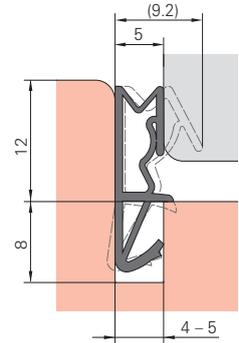
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Ensures high tolerance compensation for warped door leaves

4 – 5	8	18	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	100 m	Spool	827548
						RAL 7015	Slate grey	TPE	100 m	Spool	827549
						RAL 7040	Window grey	TPE	100 m	Spool	827550
						RAL 9016	Traffic white	TPE	100 m	Spool	827547
						RAL 8014	Sepia brown	TPE	100 m	Spool	827551
						RAL 1001	Beige	TPE	100 m	Spool	827552



**5.1.1.14 S 6512a F**



**Product description**

- For fire protection doors with a steep turn-in curve
- Processing: butt joints
- Classification: EN 12365-1 – W45243
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – Class 9A
- Fire behaviour: EN 13501 – Class F
- Smoke control doors: DIN 18095 – Suitable

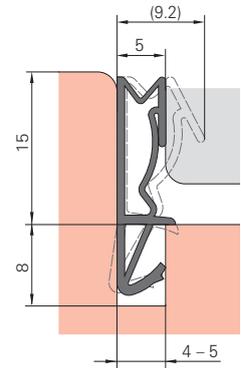
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Proof of fire behaviour



											
4 – 5	8	12	5	Steep	Top Left Right Frame	RAL 9004	Signal black	TPE	180 m	Pane	826172

**5.1.1.15 S 6515a**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W46232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

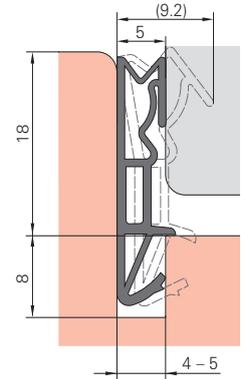
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions

4 – 5	8	15	5	Steep	Top	RAL 9004	Signal black	TPE	144 m	Pane	798554
					Bottom	RAL 7015	Slate grey	TPE	144 m	Pane	798697
					Left	RAL 7040	Window grey	TPE	144 m	Pane	798552
					Right	RAL 9016	Traffic white	TPE	144 m	Pane	798555
					Sash	RAL 8014	Sepia brown	TPE	144 m	Pane	798553
						RAL 1001	Beige	TPE	144 m	Pane	798551



**5.1.1.16 S 6518a**



**Product description**

- For the sash rebate, central rebate and overlap of windows and balcony doors made of timber and timber-aluminium with a steep turn-in curve, and for rebated interior doors and other doors
- Processing: welding
- Classification: EN 12365-1 – W45232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

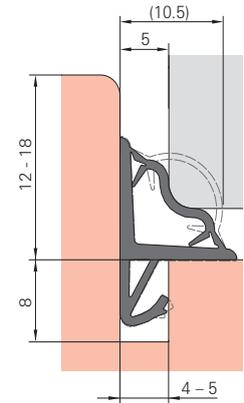
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake
- Can be combined with existing floating-mullion solutions



4 – 5	8	18	5	Steep	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	126 m	Pane	798800
						RAL 7015	Slate grey	TPE	126 m	Pane	826363
						RAL 7040	Window grey	TPE	126 m	Pane	826397
						RAL 9016	Traffic white	TPE	126 m	Pane	798801
						RAL 8014	Sepia brown	TPE	126 m	Pane	798802
						RAL 1001	Beige	TPE	126 m	Pane	798807

**5.1.1.17 DS 1218d**



**Product description**

- For doors with a steep turn-in curve
- Processing: notching
- Classification: EN 12365-1 – W43276
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – Class 9A
- Fire behaviour: EN 13501 – NPD
- Smoke control doors: DIN 18095 – Suitable

**Advantages at a glance**

- Excellent elastic recovery
- Gentle locking characteristics
- Very high tolerance intake
- Flexible even at very low temperatures
- Ensures the greatest possible tolerance compensation for warped door leaves

4 – 5	8	12	5	Steep	Top Left Right Frame	RAL 9004 RAL 8014	Signal black Sepia brown	Silicone Silicone	50 m 50 m	Bundle Bundle	2002689 2002691

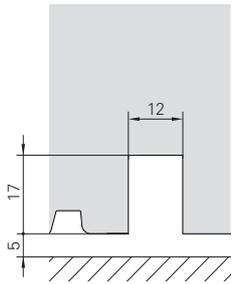


### 5.1.2 Sliding threshold seals

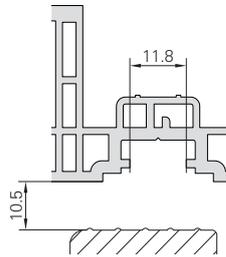
Sliding threshold seals ensure reliable sealing of main doors and balcony doors against draughts and driving rain. Deventer sliding threshold seals are ideal for accessible construction, and are set apart by simple installation by means of screw fixing. The Phon Stop product enhances sealing in the rebate of the door frame.



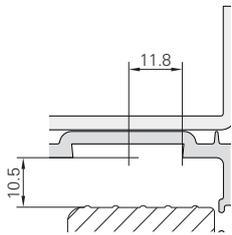
**5.1.2.1 Sliding threshold seals**



**S 7639** → 305



**S 7690** → 307

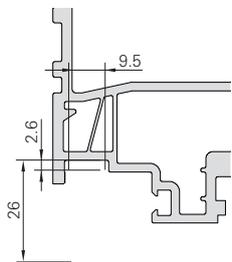


**S 7688** → 306



**Phon Stop** → 309

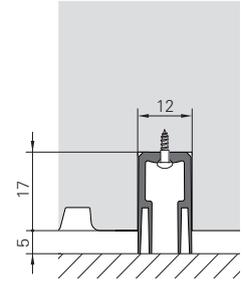
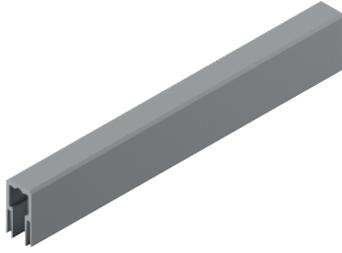
**Drip seal**



**S 7942** → 308



**5.1.2.2 S 7639**



**Product description**

- On main doors and balcony doors, especially when building with accessibility in mind.
- Protection of the sealing level behind
- Increasing the driving rain tightness

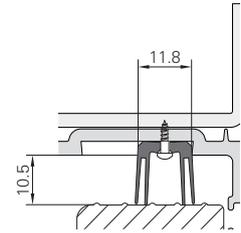
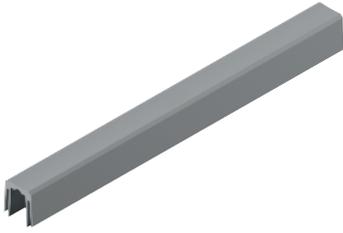
**Advantages at a glance**

- Simple installation
- Screw from below



											
12	17	-	5	-	Bottom Sash	RAL 7045	Telegrey 1	TPE	1 Piece(s)	Bundle	827105

**5.1.2.3 S 7688**



**Product description**

- On main doors and balcony doors, especially when building with accessibility in mind.
- Protection of the sealing level behind
- Increasing the driving rain tightness

**Advantages at a glance**

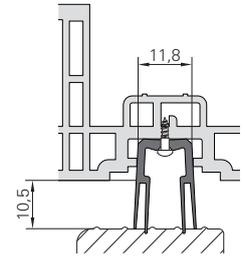
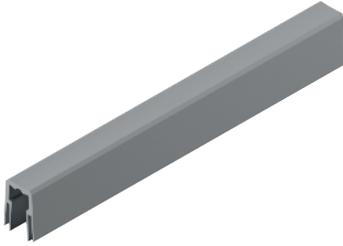
- Simple installation
- Screw from below



-	-	-	10.5	-	Bottom Sash	RAL 7045	Telegrey 1	TPE	1 Piece(s)	Bundle	834024



**5.1.2.4 S 7690**



**Product description**

- On main doors and balcony doors, especially when building with accessibility in mind.
- Protection of the sealing level behind
- Increasing the driving rain tightness

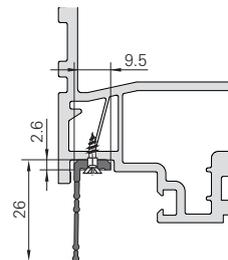
**Advantages at a glance**

- Simple installation
- Screw from below



12.4	9 mm	-	10.5 mm	-	Bottom Sash	RAL 7045	Telegrey 1	TPE	1 Piece(s)	Bundle	798816

**5.1.2.5 S 7942**



**Product description**

- For the threshold area of balcony doors and doors made of timber and PVC
- 
- 

**Advantages at a glance**

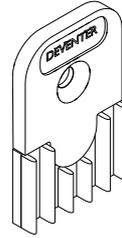
- Thermoplastic elastomers ensure better weather resistance
- Simple installation
- 



											
9.5	2.6	26	-	-	Door leaf	RAL 7040	Window grey	TPE	10 Piece(s)	Cardboard	2032242



### 5.1.2.6 Phon Stop



#### Product description

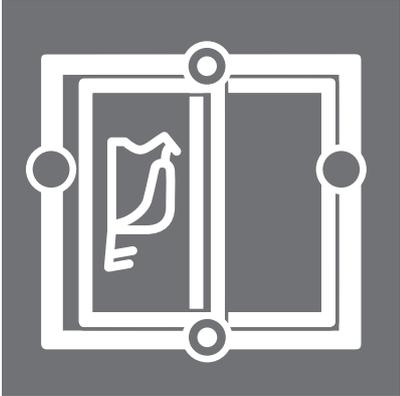
- End piece for drop down seals or normal threshold
- Installation by screwing to the inside of the door frame

#### Advantages at a glance

- Elevates sound insulation up to the level of a seal cut appropriately for the rebate dimension of the door leaf – tested in conjunction with DSD 1530
- Improves sealing against driving rain in the corners of the threshold



		<b>Nº</b>
Mitre pliers with integrated insertion roller	Accessories for the drop down seal	817490









**Timber-aluminium**

Leitz / Roto Patio Inowa system	317
Leitz ClimaTrend Style system	328

## 6 System solutions



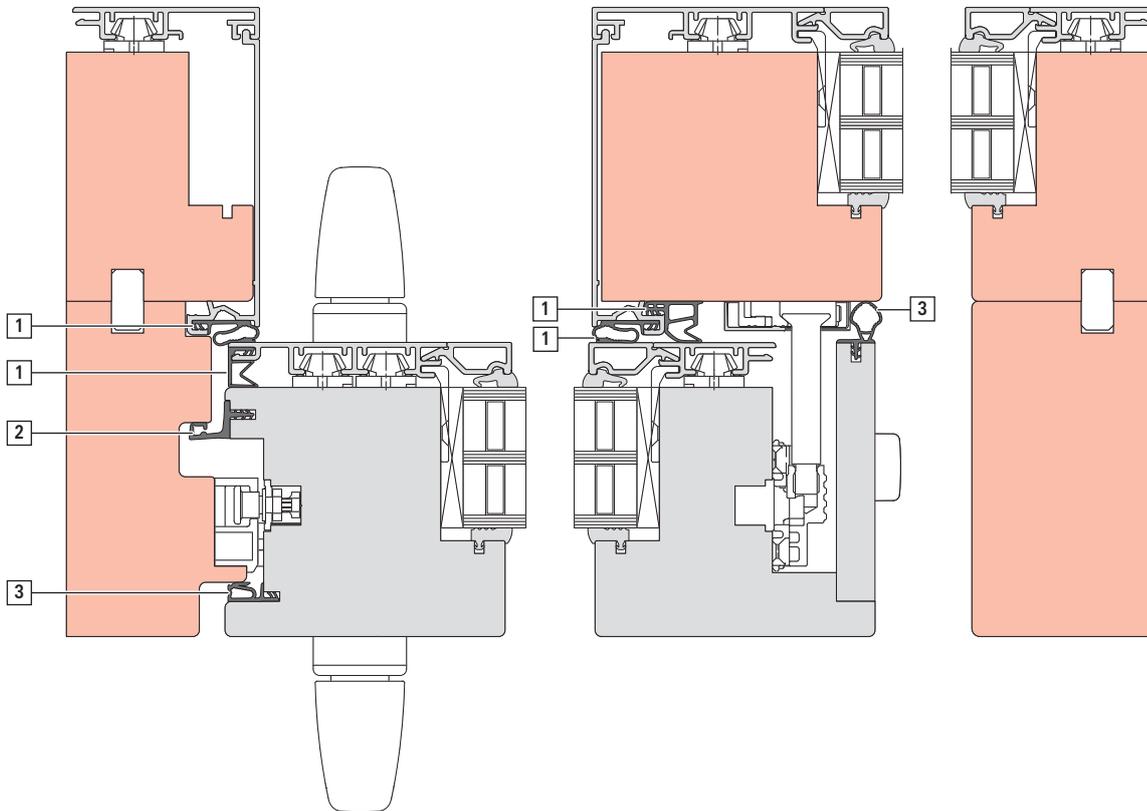
Deventer seals for system solutions complete the coordinated system made up of a frame profile, window hardware and glazing blocks, and supplement it with good sealing against driving rain, moisture, air currents and noise. Both standard profiles and sealing profiles specially developed for the specific system are used here.



## 6.1 Timber-aluminium

### Seals for timber-aluminium system solutions

Deventer seals for international timber-aluminium system solutions impress with their excellent functionality and universal processability. The combination of a new profile geometry and high-quality raw material reliably ensures excellent insulating values and thermal insulation.



### Example of use

Installation position of the seal	Example seal, type and function	Profile image
1	<b>S 7721</b> Stop seal, external	
2	<b>S 7722</b> Inner seal in the door leaf	
3	<b>S 7723</b> Stop seal, internal in the door leaf	
1	<b>S 7724</b> Stop seal, external	
3	<b>SP 7603</b> Stop seal, internal in the door leaf	

**Advantages**

- High tolerance compensation ensures sealing over the entire door leaf
- Minimal build-up of closing pressure for effortless locking and unlocking of doors
- High-quality raw materials for long-lasting weather resistance
- Reliable sealing and insulating properties
- High level of functionality for high-quality door products



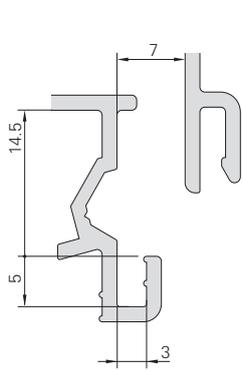


### **6.1.1 Leitz / Roto Patio Inowa system**

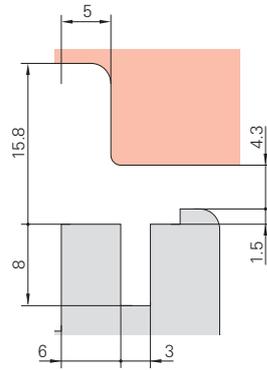
Coordinated selection of seals for use in the Leitz / Roto Patio Inowa system



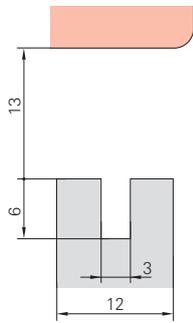
**6.1.1.1 Leitz / Roto Patio Inowa system**



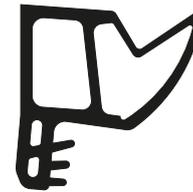
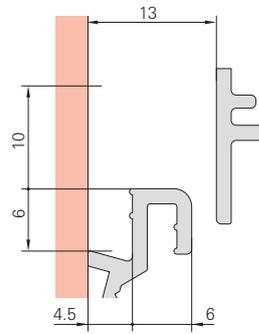
**S 7721** → 319



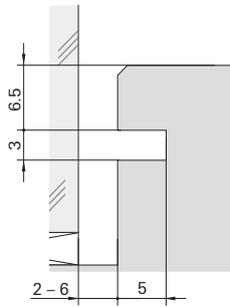
**S 7722** → 320



**S 7723** → 321



**S 7724** → 322



**S 7632** → 323



**S 7633** → 324



**S 7634** → 325



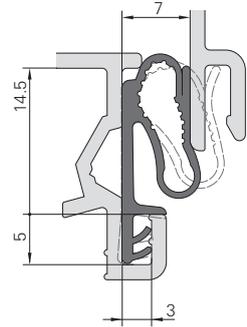
**S 7635** → 326



**S 7636** → 327



**6.1.1.2 S 7721**



**Product description**

- Stop seal for elements made of timber and timber-aluminium
- Processing: butt joints
- Classification: EN 12365-1 – 34233
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Brandverhalten: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

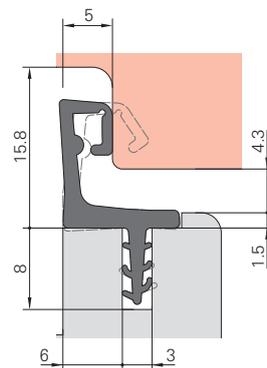
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake



3	5	14.5	7	-	Top Bottom Left Right Frame	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	120 m 120 m	Spool Spool	Nº 820891 820890

**6.1.1.3 S 7722**



**Product description**

- Inner seal or sash rebate for elements made of timber and timber-aluminium
- Processing: notching using notching pliers
- Classification: EN 12365-1 – W33232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Brandverhalten: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

**Advantages at a glance**

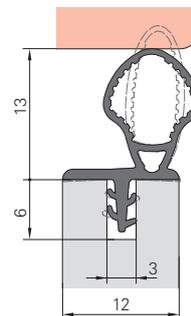
- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake



3	8	15.8	4.3 – 5	–	Top Bottom Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	120 m 120 m	Spool Spool	820893 820892



**6.1.1.4 S 7723**



**Product description**

- Stop seal for elements made of timber and timber-aluminium
- Processing: cut to the length of the cover
- Classification: EN 12365-1 – W33232
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Brandverhalten: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

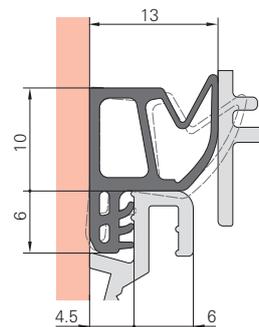
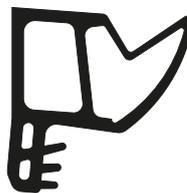
**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake



3	6	-	13	-	Frame	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	120 m 120 m	Spool Spool	Nº 820895 820894

**6.1.1.5 S 7724**



**Product description**

- Stop seal for elements made of timber and timber-aluminium
- Processing: cut to the length of the joint
- Classification: EN 12365-1 – 2
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Brandverhalten: EN 13501 – NPD
- Smoke control doors: DIN 18095 – NPD

**Advantages at a glance**

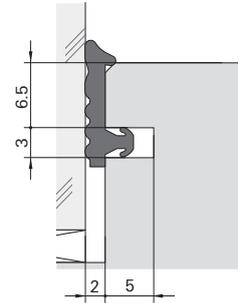
- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake



4.5	6	13	10	–	Frame	RAL 9004	Signal black	TPE	120 m	Spool	820897
						RAL 7015	Slate grey	TPE	120 m	Spool	820896



**6.1.1.6 S 7632**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

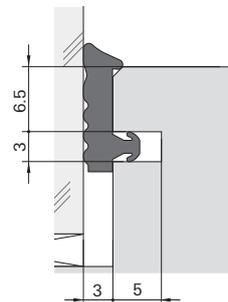
**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view



3	5	6.5	2	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	300 m	Spool	827559
						RAL 7015	Slate grey	TPE	300 m	Spool	827558
						RAL 7040	Window grey	TPE	300 m	Spool	827776

**6.1.1.7 S 7633**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

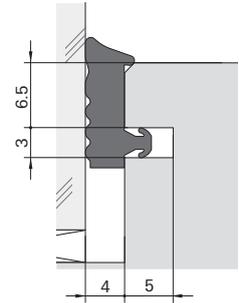
- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view



3	5	6.5	3	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	250 m	Spool	827808
						RAL 7015	Slate grey	TPE	250 m	Spool	827560
						RAL 7040	Window grey	TPE	250 m	Spool	827561



**6.1.1.8 S 7634**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

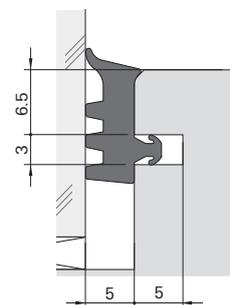
**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view



3	5	6.5	4	–	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	827696
						RAL 7015	Slate grey	TPE	200 m	Spool	827829
						RAL 7040	Window grey	TPE	200 m	Spool	827664

**6.1.1.9 S 7635**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

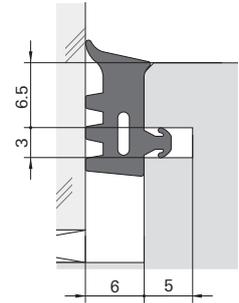
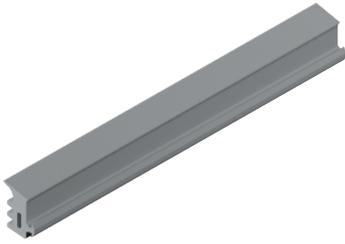
- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view



3	4	6.5	5	–	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	150 m 150 m	Spool Spool	827563 827562



**6.1.1.10 S 7636**



**Product description**

- As an internal glazing seal for timber and timber-aluminium windows and balcony doors
- Processing: butt joints, welding or mitring
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD

**Advantages at a glance**

- Fast installation as a glazing profile
- Secure positioning
- Clear and uniform view

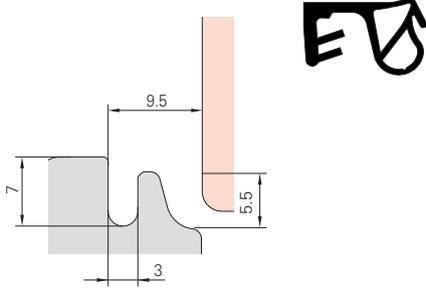


3	4	6.5	6	–	Top Bottom Left Right Sash	RAL 9004 RAL 7015	Signal black Slate grey	TPE TPE	150 m 150 m	Spool Spool	827564 827495

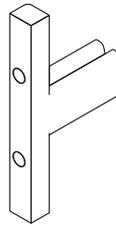
## 6.1.2 Leitz ClimaTrend Style system

Coordinated selection of seals for use in the Leitz ClimaTrend Style system.

### 6.1.2.1 Leitz ClimaTrend Style system



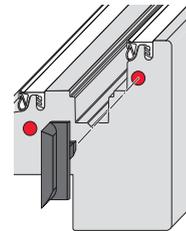
**S 7758** → 329



**Drilling jigs** → 330

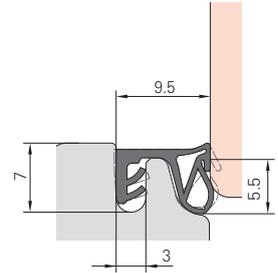
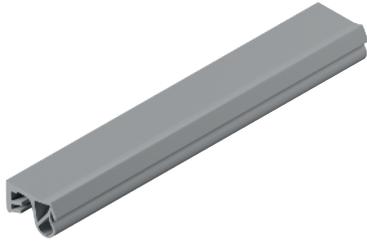


**VES 3-1210** → 330





**6.1.2.2 S 7758**



**Product description**

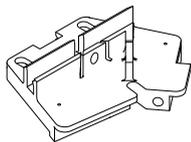
- Stop seal for elements made of timber and timber-aluminium with a flat or steep turn-in curve
- Processing: notching using notching pliers and a special cutting support (DSV 1527/7758)
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Fire behaviour: EN 13501 – Class E
- Smoke control doors: DIN 18095 – NPD

**Advantages at a glance**

- Good elastic recovery
- Convenient locking characteristics
- High tolerance intake



3	7	-	9.5	Steep Flat	Top Bottom Left Right Sash	RAL 9004	Signal black	TPE	200 m	Spool	857209
						RAL 7015	Slate grey	TPE	200 m	Spool	834057
						RAL 9016	Traffic white	TPE	200 m	Spool	896035
						RAL 8014	Sepia brown	TPE	200 m	Spool	834056



DSV 1527/7758 cutting support	Precise mitre cut for S 7758; accessory: DSV 1521/L notch pliers	798847

### 6.1.2.3 VES 3-1210



#### Product description

- For the overlap and floating mullion of double-sashed windows and balcony doors made of timber and timber-aluminium without centre post
- Processing: put the foot of the sealing profile down on the spindle length, insert end pieces into the groove
- Classification: EN 12365-1 – NPD
- Operating force: EN 13115 – NPD
- Air permeability: EN 12207 – NPD
- Driving rain impermeability: EN 12208 – NPD
- Hardware clearance: 4 mm

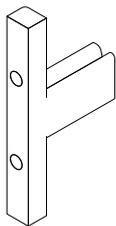
#### Advantages at a glance

- Sealing of the transitions between the active and passive leaf (first and second opening leaf)
- Greatest possible airtightness
- Significantly improved driving rain tightness



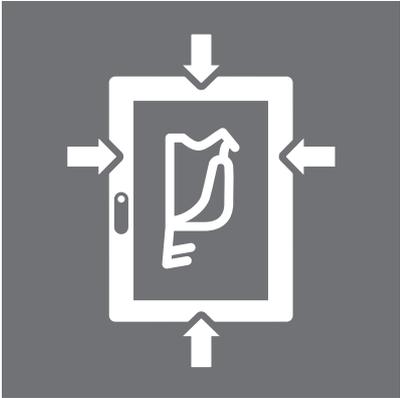
3	5	12	-	-	Top Bottom Sash	RAL 9004	Signal black	TPE	1000 Piece(s)	Cardboard	798752
						RAL 7015	Slate grey	TPE	1000 Piece(s)	Cardboard	798754
						RAL 7040	Window grey	TPE	1000 Piece(s)	Cardboard	825988
						RAL 9016	Traffic white	TPE	1000 Piece(s)	Cardboard	798757
						RAL 8014	Sepia brown	TPE	1000 Piece(s)	Cardboard	798756
						RAL 1001	Beige	TPE	1000 Piece(s)	Cardboard	798753

#### Floating-mullion drilling jig



A015/P seal install roller	Precise installation of Deventer VES 3-1210 floating-mullion end piece for S 7758 stop seal in the floating-mullion sash		2028280











**Processing devices**

Seal install roller 337

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Cutting devices 338

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**Drilling jigs**

See page 340

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## 7 Accessories

The range of seals fitted directly into windows and doors is supplemented with compatible accessories – window sill seals for a clean connection as well as processing devices for precise and efficient installation. All processing devices can be used independently of the raw material of the window frame and the seal, and wear components are available as spare parts.



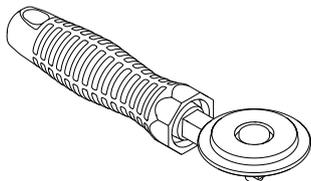


## 7.1 Processing devices

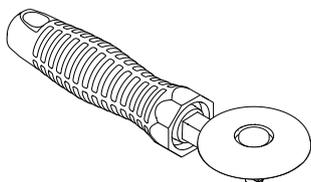
High-quality processing devices help you to process Deventer sealing profiles with precision and to install them efficiently.

Notch pliers enable the precise processing of seals – which can be swiftly installed using seal install rollers.

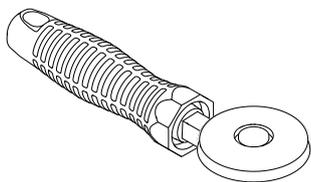
### 7.1.1 Seal install roller



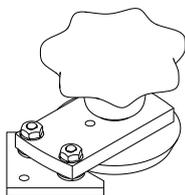
		<b>Nº</b>
A015/P seal install roller	Draught-free installation of Deventer seals in windows	798844



		<b>Nº</b>
A016/P seal install roller	Draught-free installation of Deventer seals in windows	798845



		<b>Nº</b>
Mitre pliers with integrated insertion roller	Draught-free installation of Deventer seals in windows	798846

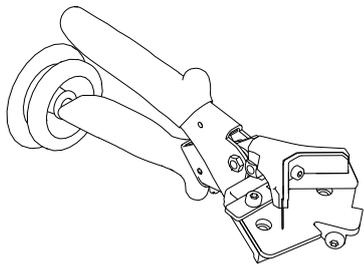


		<b>Nº</b>
A009/P seal install roller	Draught-free installation of Deventer seals in windows	827133



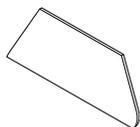
## 7.1.2 Cutting devices

### Notch pliers

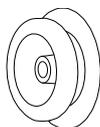


		<b>Nº</b>
DSV 1521/L notch pliers	With integrated seal-insertion roller tool; for cutting seals at 90°	798833

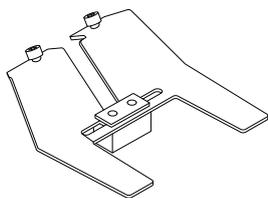
### Accessories for notch pliers



		<b>Nº</b>
DSV 1525-/L cutting blades	Spare part for DSV 1521/L notch pliers	798840



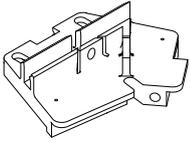
		<b>Nº</b>
DSV 1526/L feeding roller	Spare part for DSV 1521/L notch pliers	798843



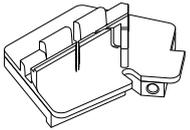
		<b>Nº</b>
DSV 1528/L angular stop	For frame; accessories for DSV 1521/L notch pliers	798842



		<b>Nº</b>
DSV 1527-/L cutting support	Spare part for DSV 1521/L notch pliers	798839



		<b>Nº</b>
DSV 1527/7758 cutting support	Precise mitre cut for S 7758; accessory: DSV 1521/L notch pliers	798847

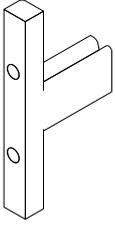


		<b>Nº</b>
DSV 1527/7939 cutting support	Precise mitre cut for S 7939; accessory: DSV 1521/L notch pliers	2042535



## 7.2 Drilling jigs

### Floating-mullion drilling jig



		 N <sup>o</sup>
A015/P seal install roller	Precise installation of Deventer VES 3-1210 floating-mullion end piece for S 7758 stop seal in the floating-mullion sash	2028280





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